

This Manual is available for download at:

http://www.pcmrp.com/manual.htm

pc/MRP for Windows Version 9.50 February 23, 2022

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# 1 pc/MRP Introduction

# 1.1 pc/MRP General Overview

Slideshow for pc/MRP walkthrough part 1: <u>http://www.pcmrp.com/mrp101/walkthru1addressnew.htm</u> Slideshow for pc/MRP walkthrough part 2: <u>http://www.pcmrp.com/mrp101/walkthru2overview.htm</u>

pc/MRP for	Windows	- Version 8.3	30B (Us	er: RICHAF	RD)
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pc/MRP is a fully integrated MRP/Accounting program for Windows. pc/MRP comes complete with eleven integrated modules: Address Book, Inventory, Purchasing, Receiving, Sales Order, Work Order, Invoice, Shipment, Bills of Materials, Stockroom and Accounting (GL, AP, AR). All of the modules can be accessed through pc/MRP's Main Menu shown above. Modules can be used on a stand-alone or integrated basis. pc/MRP also comes with a Configuration Utilities Module that allows you to configure pc/MRP to best suit your business operations. There are also eighteen Optional Modules available.

pc/MRP can be configured to support manufacturing, distribution, retail or many other types of business operations. pc/MRP's multi-user version allows a user to open multiple instances of pc/MRP and/or multiple people to enter purchase orders, invoices, etc. at the same time on PCs networked with any of the multi-user networks such as Windows XP, Vista, Windows 7, Windows 8 or Windows 10.

pc/MRP's Large Business and Multi-user Versions can track up to 1 billion part numbers. Please see the pc/MRP web site for current prices. <u>http://www.pcmrp.com/pricing.htm</u> Users can upgrade from one version to a higher version by contacting Software Arts, Inc. and paying the price difference between versions (no data will be lost).

# 1.2 Standard Modules

The modules menu of pc/MRP is the first of the menu selections. Within the modules menu we have Inventory, BOMs, Stockroom, Purchase, Receive, Sales, Work Order, Invoice, Shipment, Address Book, and Accounting. Clicking on any one of these items will bring you to the sub-menu for that module.

# 1.2.1 Inventory Module

pc/MRP's Inventory Module (Partmaster) allows users to enter, edit, and scroll for part numbers. Users can also print inventory reports, track inventory movement between the 20 areas and WIP, take physical inventories and cycle counts, print out labels, roll up assembly costs, and update selling prices automatically. Advanced features include digital imaging, price quantity breaks, 6 alternate part numbers, unlimited alternate vendors, 9 alternate manufacturers, and model numbers per part. Users can link infinite number of files, folders and URLs to a part.

# 1.2.2 Bills of Materials Module

pc/MRP's BOM Module allows users to enter, edit, and scroll through BOMs infinite levels deep. Where used reports, digital images, alternate part numbers, routing sheets, reference designator information and unlimited comments can be displayed at a touch of a button while scrolling through a BOM.

# 1.2.3 Stockroom Module

pc/MRP's Stockroom Module allows parts to be issued and received from manufacturing, shipping, receiving, and alternate warehouses. Parts issued to manufacturing under a specific work or sales order number are decremented from on-hand and placed into Work In Process (WIP). When the assembled parts are received from manufacturing, the parts are removed from WIP and the on-hand quantity of the completed assembly is incremented. The Stockroom Report Module provides job cost and lot tracing data. The Stockroom Module also provides options to automatically convert parts into assemblies and to check the availability of parts for specified assemblies.

# 1.2.4 Purchasing Module

pc/MRP's Purchasing Module allows you to enter, edit, duplicate, and print out purchase orders and reports. In addition, POs can be faxed or e-mailed directly from your PC (fax functionality requires an installed FAX/modem card and connected telephone line). Vendor address and part number information is automatically imported from their respective modules. Entering a PO automatically increments the on-order quantity in inventory. Over 100 different reports can be generated including "Consolidated Order Requirements", "ISO 9000 Vendor Performance", and "Purchase Price Variation". Each Purchase Order line item can be taxable or non-taxable, have its own due date, and discount. Blanket POs can be created at the touch of a button. POs can be created automatically. Users can link infinite number of files, folders and URLs to a Purchase Order.

# 1.2.5 Receiving Module

pc/MRP's Receiving Module allows you to enter, edit, and print out receivers and receiving reports. Entering a receiver against a PO will automatically enter all necessary information from the purchase order, decrement the on-order quantity and increment the on-hand quantity in the Inventory database, calculate a new average cost, and create an accounts payable voucher. If pc/MRP is set in the auto accounting mode it will also debit and credit the general ledger automatically. If the quantity received completes the order for that line item, the purchase order's *Complete* field will be marked "Y" to close out the line item. Users can link infinite number of files, folders and URLs to a Receiver.

### 1.2.6 Work Order Module

pc/MRP's Work Order Module allows manufacturing to enter, edit, and print out work orders and work order reports. Sales orders entered by sales, automatically become work orders and will appear in the work order module and reports. Manufacturing can use work orders to build to stock or build to existing sales orders. Users can link infinite number of files, folders and URLs to a Work Order.

# 1.2.7 Sales Order Module

pc/MRP's Sales Module allows you to enter, edit, duplicate, and print sales orders and sales order reports. If the order entered is cash and carry or on account and carry, pc/MRP will create an invoice and decrement the on-hand quantity in inventory. If it is an 'order entry' order (to be delivered later), pc/MRP will create a sales order and increase the on demand quantity. pc/MRP's Sales Module will provide numerous reports including: All Overdue Sales Orders, All Sales Orders for a Month, Sales Tax, Sales Commission, and Cost of Sales. Each line item can be taxable or non-taxable, and have its own due date and discount. Blanket sales orders can be created at the touch of a button. Users can link infinite number of files, folders and URLs to a Sales Order.

# 1.2.8 Invoice Module

pc/MRP's Invoice Module allows you to enter, edit, and print out invoices, shippers, and invoice reports. Entering an invoice against an 'order entry' sales order will automatically enter all necessary information from the sales order, decrement the on-demand and on-hand quantities in inventory, and create an accounts receivable voucher. If pc/MRP is set in the auto-accounting mode, it will also debit and credit the general ledger automatically. If the quantity received completes the order for that line item, the sales order's *Complete* field will be marked "Y" to close out the line item. Each line item can be taxable or non-taxable and have its own due date. Users can link infinite number of files, folders and URLs to an Invoice.

# 1.2.9 Shipment Module

pc/MRP's shipping module integrates pc/MRP with UPS's WorldShip or FedEx's Ship Manager. Users will no longer have to re-enter the customer addresses. Users can also select 'BOL' from the Carrier Type dropdown list and create a Bill of Lading shipping document. Users can link infinite number of files, folders and URLs to a Shipment.

# 1.2.10 Address Book

pc/MRP's Address Module allows you to create and maintain a customer and vendor database. pc/MRP will automatically export address information to purchase orders and sales orders. Invoices, Receivers, etc. created by pc/MRP, as well as Balance Due, and Average Days to Pay information can be displayed at the touch of a button. pc/MRP has numerous report options allowing customer data to be parsed as desired. Users can also pick from an address list, and automatically create mail merge files and address labels. Users can link infinite number of files, folders and URLs to an Address.

# 1.2.11 Accounting

pc/MRP's Accounting Module consists of fully integrated GL, AP, AR, and a check-writing module. Debiting and crediting is automatic and all entries automatically update all journals. pc/MRP's accounting package supports multiple divisions and departments. The Pay Bills module will automatically create and print one check per vendor for the invoices selected. Up to 12 accounting periods can be active. The Accounting Report Module supports drill down reports such as "All Accounting Transactions for a Specified Invoice". Additional accounting reports include: sales tax, sales commissions, cost of sales, check reconciliation, and cash projections.

# 1.2.12 Configuration Utilities Module

pc/MRP's Configuration Utility Module allows you to configure pc/MRP to best suit your business operations. The configuration menu contains such items as Module Activation, Settings & Utilities, and information about pc/MRP. The Module Activation selection allows users to activate the Optional

Modules. Settings & Utilities allows for the configuration of your pc/MRP to work optimally for your business needs. Note: Appropriate configuration codes are required to change these settings.

# 1.3 Tools

The Tools menu contains your basic Windows elements including cut, copy, paste, a calculator, and macro creator. The macro command is used for repeating sequences of keystrokes when a single key combination is entered. One reason to use a macro is in the instance of having repetitive tasks.

# 1.4 Optional Modules

Software Arts has created eighteen Optional Modules that you can use to enhance the efficiency of your business. The optional modules can be tested in both the trial version and the full version. Once tested, if the user wants the Optional Module(s), they can be purchased through Software Arts. Call Software Arts at (408) 226-7321 for further information or for activation codes. Please see the pc/MRP web site for current pricing: <u>http://www.pcmrp.com/pricing.htm</u>

# 1.4.1 Alternate Currency Module

The optional Alternate Currency Module allows you to enter several different currency types and their related exchange rates into pc/MRP. You would then be able to select the desired currency for Purchase Orders, Receivers, Sales Orders, and Invoices. You can also print an Inventory Value Report or print checks using the desired currency.

# 1.4.2 Audit Trail Module

The optional Audit Trail Module provides a means of tracing edit changes made to any or all of the pc/MRP modules with the exception of accounting. Whenever a change to a record occurs during an editing session, the Audit Trail module will record the *Date, Database, Time, User, and Field Name* as well as the *Record & Item numbers, Part/BOM number*, or *Address ID* number. A flexible search feature allows retrieval of the recorded change based upon a variety of criteria.

# 1.4.3 Corporate Reporting Module

The optional Corporate Enterprise Module allows companies to select one of three methods to have their parts list and BOMs automatically synchronized (including all indexes) across the world in real time. They can switch from one division to another by selecting that division from the drop down menu. Companies can print out consolidated financial reports for all divisions, business units, and the entire corporation. Currencies are automatically reconciled if pc/MRP's Alternate Currency Module is active.

# 1.4.4 Customer Bulk E-mailer

The optional Customer Bulk E-mailer Module utilizes the address book to allow users to send newsletters, advertisements, or other types of documents in bulk to specified address types. (Customers, Vendors, Employees).

# 1.4.5 ECN Module

The optional Engineering Change Notice Module creates, edits, and prints out ECNs and ECN Reports. In addition, it will also print out ECN reports that provide Purchasing with a list of all open POs affected by ECNs issued in the last 30 days.

# 1.4.6 EDI Import & Export Module

The optional Electronic Data Exchange (EDI) Module allows you to have electronic data exchange between you, your customers and vendors.

# 1.4.7 Employee Time Tracking Module

The optional Employee Time Tracking Module consists of two modules. The first module, Employee Information, is used by accounting to create and manage employee records. The second module, Time Sheet, is used by individuals and/or accounting to create and manage employee time sheets.

# 1.4.8 Infinite Bucket/MRP Module

pc/MRP's advanced optional MRP Module will generate a master production schedule / infinite bucket reports. The reports contains data that can be expressed in a daily schedule or consolidated into weekly, monthly, or a quarterly schedule, for a user definable time period. Running the MRP generates action items for purchases, issues to be made, makes, sales, buys, and labor actions. Users can display or print action item reports, timelines or item graphs.

# 1.4.9 Inspections Module

The optional Inspections Module allows users to set individual inventory items to require an inspection at four different stages of use: receiving, manufacturing, invoicing, and/or shipping.

### 1.4.10 Password Module

The optional Password Module allows an unlimited number of user name and password combinations to control access rights (delete, edit/create, view only, or no access) to each pc/MRP module.

# 1.4.11 Purchase Request Module

The optional Purchase Request Module creates, edits, and prints out purchase and quote requests. In addition, it can automatically convert PO requests and quotes into purchase orders.

# 1.4.12 QuickBooks® Export Module

The optional QuickBooks® Export Module allows users to routinely export AP, AR, inventory, and address data out of pc/MRP and import into QuickBooks®.

### 1.4.13 Routing Module

pc/MRP's optional Routing Module allows you to create routing records. You can then move and track work orders and sales orders through the factory floor from work station to work station.

# 1.4.14 Sales Analysis Module

The optional Sales Analysis Module contains several programs that will analyze sales history and set stocking and ordering requirements. The Sales Trend Reports can be used to spot sales trends over four user-defined time periods and subtotaled by part number, vendor, or customer. The Book to Bill Reports can analyze book to bill ratios and goals by customer and territory. The Estimated Usage and Min Quantity Reports automatically fill in each parts *usage* and *min quantity* fields based on prior sales. The Consolidated BOM Reports consolidate parts within various levels of a BOM and print out the consolidated quantity for each part. Multiple BOMs can be consolidated together and printed spreadsheet style to analyze the purchasing requirements as a whole.

### 1.4.15 Sales Quote Module

The optional Sales Quote Module creates, edits, and prints out sales quotes. In addition, it can automatically convert sales quotes to sales orders if/when you receive the order.

### 1.4.16 Serial/Lot Tracking Module

pc/MRP's optional Serial/Lot Number Module will store current on hand quantities of each serial/lot number. It also keeps records of all transactions adjusting the serial/lot number quantities as transactions are made. Entering an invoice will allow you to decrease the on hand quantity of the serial/lot number being shipped (I type transaction). Entering a receiver will allow you to increase the on hand quantity of the serial/lot quantity (R type transaction). Issuing parts to an assembly in the stock room will allow you to decrease the on hand quantity of the serial/lot number being issued (S type transaction). Users can print advanced tracking and composition reports.

### 1.4.17 User Task Manager & Tickler Module

The optional User Task Manager & Tickler Module allows the user to quickly enter a tickler and reminder date/time for notification. You can enter detailed information about a task or project to track.

### 1.4.18 Web Orders

The optional Web Orders Module allows users to manage orders created on a web sales site (currently ShopSite) by downloading and uploading the orders into pc/MRP's Sales Order module.

### 1.4.19 Barcode Package

Companies can purchase the optional Barcode Package, which contains barcode fonts. These fonts are used with the report generator to add a barcode to labels and reports.

# 2 Installing pc/MRP

### 2.1 Recommended Minimum Hardware Requirements

Workstations:	Windows XP – 1GB RAM Windows Vista – 2GB RAM Windows 7, 8, 10 – 4GB RAM
Server:	Windows 2003 – 2GB RAM with 10+ GB free disk space Windows 2008, 2008 R2 – 4GB RAM with 10+ GB free disk space Windows 2012, 2012 R2 – 4GB RAM with 10+ GB free disk space

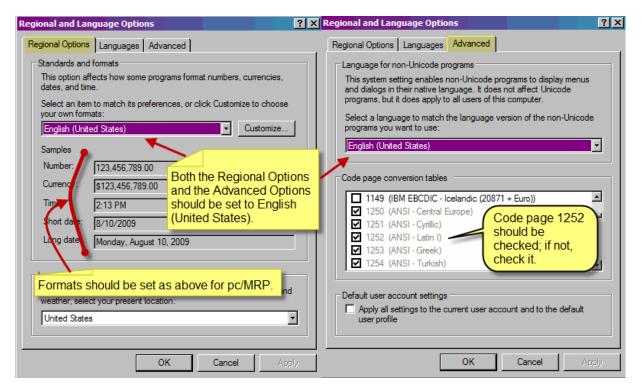
Software Arts, Inc. does <u>NOT</u> recommend using a workstation as a Server for pc/MRP. If the workstation crashes or is turned off, nobody can access pc/MRP. A crash would also greatly increase the chances of data corruption.

Note about Running pc/MRP on an Apple/Mac Workstation:

If you have a standard Windows Local Area Network Server 2003, 2008, or 2012, then you can install Parallels or VM Ware's Virtual Box (free download from VM Ware) on the Apple Work Station. You would then install the Windows Operating System from a Windows Install DVD. Once you are in and running Windows on the Apple Work Station create a desktop shortcut to the pcmrpw.exe file located in the pcmrp folder on the server's C: or D: drive. Our sources feel Virtual Box may be the best way to go. <u>www.virtualbox.org</u> If you have a Windows Terminal Server 2003, 2008, or 2012, you would simply install an Apple Remote Desktop Client for Windows on the Apple Work Station.

# 2.2 Desktop Environment

Select the Windows 'Start' button, select the Control Panel and then Regional Settings and verify the following information:



# 2.3 Initial Installation (first time only)

Do not install pc/MRP in the Windows 'Program Files' or 'Applications' directory. Instead, allow it to install itself in its own directory such as C:\pcmrpw.

In a multi-user environment, pc/MRP runs as a client on a Windows workstation connected to a server.

Slideshow for pc/MRP install: http://www.pcmrp.com/mrp101/installpcmrpclickonlink.htm

If you are installing pc/MRP from a downloaded file, simply double click on that file.

The installation program will prompt you to read the end-user agreement and select a suitable location for pc/MRP to be installed. pc/MRP offers C:\PCMRPW. If you want to place the application into a different folder, like C:\Company\PCMRPW, you first need to use Windows Explorer and create the folder. Then run the installer and when asked, select the desired folder.

Once the installation is complete, pc/MRP can be accessed either by your computer's Start and Programs menu, or the shortcut created on your desktop. The first time you start pc/MRP, the program will require that you define a password for future access to the program and then to enter your company's name, address and phone number.

If you have installed a single user version of pc/MRP, you are finished with the installation. If you are installing a multi-user copy, follow the instructions listed below.

For the server you should: Double click on My Computer Right click on the server's folder that contains the pcmrp files Select Properties (select Sharing and Security on a workstation) Select the Security tab Select the Everyone group Provide all pc/MRP users (or the group) with 'Modify' rights or higher. Please refer to the screenshot below:

File       Edit       View       Favorites       Folders         F       General       Security       Customize       The Security Screen may no be visible if the Control         F       General       Security       Customize       Image: Customize       The Security Screen may no be visible if the Control         F       General       Security       Customize       Image: Customize       Image: Customize         Group or user names:       Select the user or the user group that is going to use pc/MRP       Network Access: Sharing and security model for loca accounts is not set to Classic         CREATOR OWNER       SpenceGroup       Make sure everybody who is going to use pc/MRP has Modify Rights or higher.         Full Control       Add       Make sure everybody who is going to use pc/MRP has Modify Rights or higher.         Full Control       Image: Customize       If pcMRP is installed on a Domain Server controlled network, right click on the pc/MRP directory, Select         Full Control       Image: Customize       Image: Customize       Image: Customize	
Saw Properties       2 ×         F       General       Security         Group or user names:       Select the user or the user group that is going to use pc/MRP         Administrators (SERVER100\Administrative Tools)         CREATOR DWNER         Everyone         SpenceGroup (SERVER100\SpenceGroup)         CNSTEM         Add         Permissions for Everyone         Allow	<b>R</b>
F       General       Security       Customize         Group or user names:       Select the user or the user group       Chadministrative Tools         Group or user names:       Select the user or the user group       Chadministrative Tools         Group or user names:       Select the user or the user group       Network Access: Sharing and security Policy, Network Access: Sharing and security model for loca accounts is not set to Classic         Group or user names:       SpenceGroup (SERVER100\SpenceGroup)       Network Access: Sharing and security model for loca accounts is not set to Classic         Group or user remissions for Everyone       Add       Make sure everybody who is going to use pc/MRP has Modify Rights or higher.         Full Control       Domain Server controlled network, right click on the pc/MRP directory, Select	_
Group or user names: Administrators (SERVER100\Administrators (SERVER100\Administrators (SERVER100\Administrators (SERVER100\Administrators (SERVER100\Administrators (SERVER100\SpenceGroup) SpenceGroup (SERVER100\SpenceGroup) Add Make sure everybody who is going to use pc/MRP has Modify Rights or higher. Full Control	
Make sure everybody who is going to use pc/MRP has Modify Rights or higher. Full Control	
Bead & Execute and make sure pc/MRP	
List Folder Contents Users have Read and Change Permissions.	
For special permissions or for advanced settings, Advanced click Advanced.	

For every workstation, on the network that you want to run pc/MRP, create an icon as follows:

- 1. Double-click on '**My Network Places**' (Icon in the open space on your desktop or in Windows Explorer).
- 2. Double-click on the server. On Windows 2000, double-click on "Computers near me" and then the server.
- 3. Double-click on the server's directory containing pc/MRP (if pc/MRP is not located at the 'Root' level).
- 4. Double-click on the folder containing pc/MRP.
- 5. **<u>Right-click</u>** on the pcrmpw.exe file and drag it to the desktop (note the 'W' at the end of pcmrpw).
- 6. Select 'Create Shortcut'.

### 2.4 Possible Installation Errors

- An "Error writing file" message usually indicates there is not enough room on the hard disk to install all of the files. Your hard disk should have a minimum of 400 MB of free space prior to installing pc/MRP. The pcmrpw directory could grow to several GB over time.
- If you are installing pc/MRP from a download file (dem999x.exe) and the installation program asks you for Disk 2: The downloaded file is not complete. Re-download the file and attempt to reinstall pc/MRP with the new dem999x.exe file. (999x is replaced with the current version and revision, currently as dem900a.exe)
- If mapped drive says 'No space available' or there is an 'x' in the computer list icon, use the UNC location in the 'Network Connections' list.
- Also see Section 17.7.45 in this Manual.

### 2.5 Moving or re-storing the pc/MRP system

pc/MRP can be "moved" from one computer to another by COPYING and PASTING the pcmrpw directory. Never MOVE the PCMRPW directory as a network failure during the move will cause all sorts of problems. Follow the instructions above to re-create the shortcuts.

After testing that pc/MRP is up and running, you can delete the original pcmrpw directory if you wish.

This is also how you would backup the pcMRP directory each night; but you would copy to a USB disk drive. Software Arts recommends an odd day, even day, week-end, and month-end rotating back-up media.

You may need to do this if switching servers or moving from a Peer-to-Peer workstation to a regular server.

# 3 pc/MRP Tutorial

### 3.1 Tutorial Overview

The Tutorial is designed to teach new users about pc/MRP. The Tutorial has 18 lessons. Below is a description of each lesson.

3.1.1 pc/MRP Manual and Contents	A brief discussion about the Manual and where to find things.
3.1.2 The Bicycle Shop	Discusses what the Bicycle Shop is and how to utilize the Tutorial.
3.1.3 Settings and Utilities 3.1.4 Creating a Practice Directory	Explains a few custom settings that users should learn. Shows users how to make a backup copy and a practice directory
5.1.4 Creating a Fractice Directory	of pc/MRP.
3.1.5 Address Book Module	Discusses where all of your vendor and customer information
	resides.
3.1.6 Inventory Module	Covers where all of you part information exists and how to enter and edit parts.
3.1.7 BOM Module	Explains how to build the recipes that are your assemblies.
3.1.8 Inventory Flow Model	Explains the general flow of material from order entry, to
	production and shipping.
3.1.9 Sales Order Module	Order entry for customer sales.
3.1.10 Work Order Module	Order entry for scheduling or building to stock.
3.1.11 Single Bucket MRP	Material Requirements Planning. This tells you what you need to
Purchasing	buy based on your demand from Sales Orders and Work Orders.
3.1.12 Infinite Bucket MRP	Advanced Material Requirements Planning. This tells you what you
	need to buy, when you need to buy it, and schedules your builds
	and issues to and from manufacturing. (MRP)
3.1.13 Purchasing Module	Ordering from your vendors.
3.1.14 Receiving Module	Vendors fulfilling Purchase Orders and creating Accounts Payable.
3.1.15 Stock Room Module	Using the stockroom to build assemblies from parts, and to adjust inventory.
3.1.16 Invoice Module	Creating invoices and building Accounts Receivable.
3.1.17 Accounting	Posting GL transactions, paying bills, receiving payments from
S. T. T. Accounting	customers, and Posting Financials.
3.1.18 Some Final Thoughts	Discusses where to go from here.
ernie oonie mar moughts	Discussion million to go monimilaria

### 3.1.1 pc/MRP Manual

The Manual for pc/MRP is broken down into five sections: Overview and Implementation; Modules; Settings, Utilities and Special Cases; Optional Modules; Troubleshooting. Take a few moments to review the chapter headings and become familiar with how the Manual is formatted. The Manual will become an invaluable tool while you are learning pc/MRP. The Manual is available both in the drop down menus within pc/MRP and from Software Arts' website: <u>www.pcmrp.com</u>. You might want to download it to your desktop for the fastest access.

# 3.1.2 The Bicycle Shop

The Bicycle Shop is the fictitious company that will be used in this Tutorial. Throughout running the bicycle shop, we will carry out several tasks that companies perform in their day-to-day operations. You will often be asked to refer back to pc/MRP.

This is the Tutorial. You are in the Tutorial NOW. The Tutorial is a written tutorial. There are no parts to load and or data sets available. Users should learn how to enter parts and build BOMs and run the program. That is why the Tutorial was written. You can expect the Tutorial to take about 2-4 hours.

### 3.1.3 Settings and Utilities

pc/MRP can be configured to operate in several different business environments. The Configuration, Settings and Utilities Chapter covers in detail all of the custom settings available depending on your business circumstances. Before you start using pc/MRP "live", you should have a thorough understanding of what these settings are and what they mean to your company. For the sake of this Tutorial, there are just a few that will be addressed now. To access the Settings and Utilities menu from within pc/MRP select: Configuration, and Settings & Utilities.

Option 4, Inventory Adjustment Method (S/A/P/W/R)

We recommend "A." The Tutorial is designed around inventory adjustment method "A." This is the recommended method for manufacturers, distributors, and retailers. By default, pc/MRP is set to "A". You might find a setting that better fits your specific requirements. However, to successfully utilize the Tutorial, you must have this Option set to "A".

### Option 8, Auto accounting -or- Make accounting separate (Manual)

We recommend "M." The Tutorial is designed around manually entering GL transactions. By default, pc/MRP is set to Manual. It is also recommended that it be always set to manual and never changed to automatic.

Take the time to study the Settings and Utilities Chapter. You may find several things that are of specific interest to your circumstances. By reading this section, you will be able to form ideas on how pc/MRP will work for your company. Be sure to make a list of all of the settings that will need changing for pc/MRP to run successfully with your company.

Note: The trial version of pc/MRP does not need a configuration code number or password.

**Note:** Throughout the Tutorial references will be made to executable paths in pc/MRP. These paths will always begin in the drop down menus accessible on the main screen in pc/MRP.

Example: Select **C**onfiguration, **A**bout pc/MRP. This means select from the drop down menus, **C**onfiguration, and then **A**bout pc/MRP. These executable paths will be used in performing specific tasks associated with completing the Tutorial. When a letter is underlined, you can press the Alt key and the underlined letter of the desired function. You can also use your mouse. At this time, press **O**K to return to the main pc/MRP screen.

To view your current Settings and Utilities start pc/MRP and select **C**onfiguration, and then **S**ettings & Utilities. Scroll up and down as desired. Hit **C**ancel to exit the Settings and Utilities.

**Note:** Throughout using pc/MRP you will be constantly accessing the drop down menus. At this time, take a few minutes to review all of the options accessible from the drop down menus.

# 3.1.4 Creating a Practice Directory and Backup Copies

A practice directory or practice copy of pc/MRP should be created to run the examples in this Tutorial. This practice directory can be created by following the commands listed below after you have initially installed pc/MRP.

- 1. Open Windows Explorer.
- 2. On the left scroll up to your **C** drive and find the pcmrpw directory.
- 3. Do a right-click on the pcmrpw directory and select **Copy**.
- 4. Right-click on the C drive and select Paste. This creates a "Copy of pcmrpw" on your C drive.
- 5. Press File and Close to close Explorer

We are finished creating a backup copy. You will want to become familiar with creating backup copies and practice directories. The file pcmrpw.exe starts pc/MRP and whenever you want to do a test run on something, simply make a copy of the pcmrpw folder and double click on the exe file. Do not however leave a lot of practice copies throughout your network. This simply confuses end-users.

Furthermore, for practice copies of pc/MRP, we recommend going to Configuration, Settings & Utilities, and Option 1. Edit the 'Division/Dept' line to contain the word 'practice'. This will put a red practice logo in place of the standard pc/MRP logo alerting users that they are in a practice copy and not the standard copy of pc/MRP.

We have thus far built a reasonable framework. You should have an understanding of how to: find things in the pc/MRP Manual, navigate through the pc/MRP menus, how to find and change the settings and utilities, and create and use practice directories. We will continue with explaining how to enter vendor/customer, inventory, and BOM information. This will be the foundation that we use to enter orders and complete the Order-to-Cash process.

### 3.1.5 Address Book

The primary source of all of your data is found in the Address-book, Inventory, and Bills of Materials modules. All of this data, once entered, is automatically carried into purchase orders, sales orders and work orders. We will first discuss the Address Book Module. The Address Book Module is the location in pc/MRP where all customer, vendor, employee, and contact information will be stored. At this time, take a few minutes to read the Address Book Module. This lesson will assume the chapter has been read.

### 3.1.5.1 Entering an Address

While using pc/MRP in the course of running your business you will need to add addresses. To add new addresses simply select Modules, Address Book, and New.

**Note:** You will find that all of the modules are set up very similar. To make a new purchase order select Modules, Purchase, New. To make a new sales order select: Modules, Sales, New. This is constant throughout the program.

After selecting Modules, Address Book, New, you will be prompted to enter the company name that you wish to add to the address book. Please enter "ABC MANUFACTURING."

**Note:** when entering an address where most of the customer information exists in an address that is already entered into the address book, you can select "Import Address information from existing address" on this screen, to save time.

After entering the company name press: OK

As you can see, there are many options and fields to enter data for each entry. Most are self-explanatory. For further details on what each field does refer back to the chapter in the Manual on the Address Book. At this time, take a few moments to look over this screen and refer back to the Manual if there are questions about specific fields.

Enter the data as described in the picture below, except for the **Start Date** which will automatically be populated by the date in your computer.

STORE STORE		ws - Yersion 8.64D	×
modules			
[	Address F	Book New Address Creation	
	Addr Id	Company Name Addr Type Status Balance	
	ABC002	ABC MANUFACTURING CUS V APP V 0.00	
	Company	Contacts Sales Contact Info Billing \ Shipping Documents QuickBooks®	
	Attention	John Smith Contact John Smith	
	Address	123 Main Street Title VP Purchasing	
		Salutation Mr.	
	City	San Jose e-Mail jsmith@abcman.com 🖃	
	State / Zip	CA 95119 Website www.abcman.com	
	County	C-Card Exp /	
	Country	USA Credit Cards Do Not Call	
	Telephone		
	Faxno	333-444-0901 Start Date 05/14/2012 Do Not e-Mail	
	Comment	ts:	
	ABC has t	been with us for over 20 years	
	La <u>b</u> els	Logbook 🔪 🗊 🥒 DeleteQkCancel	
Contacts (d	c:\pcmrpw864\v	contacts.dbf) Record: EOF/3 Record Unlocked	//

Notice that several tabs exist to allow users to enter additional data. The additional tabs consist of: unlimited number of Contacts, Sales Contact Information, Billing and Shipping addresses, and Invoice and Receiver history. Salesperson information, the billing and shipping addresses will automatically be populated in sales orders and invoices. Select the **Billing/Shipping** tab to enter address information if different from the main address. You can pre-load the address info from the main address or from another address using the buttons above the address fields. We will use this address entry later to enter purchase orders and sales orders. Click Ok to save.

# 3.1.5.2 Viewing an Address

To view the address just entered select Modules, Address Book, and Edit.

**Note:** The EDIT function is similar throughout pc/MRP. If you wish to edit a Sales Order, select Modules, Sales Order, and Edit. To edit a receiver select Modules, Receiver, and Edit.

To edit choices you must choose "Edit" under the Action square. To simply view without being able to edit data, select "View." Users can also search address information in a number of different ways: Account ID Number (a unique address ID number per customer created by pc/MRP), company name, company telephone number, and serial number. You can save these setting for the current by clicking at Save Settings. This doesn't affect other users' settings.

🗧 Address Bo	ok Database				
I	Indexed Search (Fastest)	Queried Search			
Save Settin Color Coo	Account ID Number	Include No Selections			
Go <u>T</u> op Go <u>B</u> otton	Begin Scrolling <u>A</u> t. ▼ <u>N</u> earest Mat	ch			
ID Code	Company Name	Attention:			
ABC001	ABC TIRE COMPANY	ATTN: JOE SMITH			
BAK001	BAKER & FINNEMORE LIMITED				
CZL001	CZL TILBURG BV				
DAL001	DALAU				
DAW001	DAWSON MEDICAL LTD				
DRR001	DR. REDDY'S LABORATORIES, INC.				
DYN001	DYNACAST DEUTSCHLAND GmbH & CO.				
GER001	Gerresheimer Regensburg Gmbh	▼ ▶			
	/iew Edit	<u>O</u> k <u>C</u> ancel			

**Note:** This scroll selection and actual scroll screens are similar throughout pc/MRP. Sales Orders, Work Orders, Invoices, Receivers, Purchase Orders, Stockroom Transactions, and the BOM module all have a uniform look. Right click the Color Code button for the meaning of each color.

At this time, within the Address Book Scroll screen, select the entry we have created and press OK or enter.

After viewing the record, click Cancel to close.

### 3.1.5.3 Editing an Address

Repeat the above process, but choose Edit this time. If the OK button is not highlighted you are not in **Edit** mode. Select Cancel and attempt to edit the address entry again.

**Note:** Several fields have drop down menus. (Addr Type, Status, and under the sales contact information tab: source, purpose, priority, interest, and concern.)These fields are user definable through Option 52 in the Settings and Utilities, and are used in address reports to further parse customer/vendor data.

Example: ADDR TYPE allows users to define their relationship with the entry. Examples: EMP for employee, VEN for Vendor, CUS for customer, PRB for accounts on probation.

When you are done editing, click OK. This saves the changes made.

Look up the address again and see if the changes were saved. If the changes are not there, then you never made the changes, you probably clicked Cancel after making the changes. If the changes are there, congratulations, you have successfully edited an entry.

### 3.1.5.4 Deleting an Address

Create another address entry with a company name of "Bad Company." This will be the entry we remove. To delete an address or any record within pc/MRP is a two step procedure. The record must first be marked for deletion, and then the records marked for deletion must be removed from the database.

To mark the entry "Bad Customer" for deletion, select Modules, Address Book, and Edit. Make sure the Action square is set to edit and scroll for the "Bad Customer" entry. Select that entry. With the address book open to this customer entry click on the Delete button from the row of buttons on the bottom of the screen and then OK.

To remove records marked for deletion select, Modules, Address Book, and Remove Marked Records for Deletion. This two-step deletion method is the same throughout pc/MRP.

**Note:** Once your software is activated into the full version, deleting records marked for deletion will be secured by your configuration code. You should only attempt remove records when no one else is using the affected database table. The safest way to make sure is to set an Admin Lock first (we will explain this later).

You have now successfully deleted a record.

The steps above can be repeated for entering, looking up, editing, or deleting any address in the address book. For reports and label making, refer back to the Manual. We will continue with the lesson on data entry with the Inventory module.

### 3.1.6 Inventory Module

The Inventory Module contains price, quantity, lead-time data, and a number of other fields associated with parts, labor parts, and assemblies. The Inventory does not contain information about how the assemblies are built. That is in the Bills of Materials. BOMs will be covered in the BOM lesson.

To become familiar with what the various fields do in the main inventory screen, please take a few minutes to read the Inventory Module Chapter. You should not begin this lesson without having an understanding of the Inventory Module.

Several things should be considered when entering your own parts and creating a part number scheme. For the purpose of this Tutorial, we will keep all of the standard settings. As you begin entering your own parts, you will want to read about **Options**, **28**, **29**, **48**, **and 49** in the Settings and Utilities module. For special cases and consignment parts, read Chapter 15.9, Special Cases.

### 3.1.6.1 Entering New Parts

Similarly to the Address Book, when you want to enter a new part, simply select: Modules, Inventory, and New. Then select "Next Available Partnumber".

pc/MRP will automatically assign the next available part number or users can simply highlight the pc/MRP built part number and enter their own.

Press OK to accept part number 00000001.

The part number data entry screen is presented. Enter data as described in the picture below.

<b>VFP - C:\V863 (User: I</b> Iodules Tools Optional		inual Developer H	telp					_ 🗆
oddies 100is Optional	Configuration Ma	andar Developer i	icip					
Inventory (Edit Me	ode)							
👋 Part # 0000000	D1 Typ	Part - Inventory	▼ <sup>×⊙</sup> R	evisio	n ABC	_	Ins <u>p</u> ection Crit	eria
Description BEARING	, 3" OD x 1" ID				Displaye	d Currency	BASE CURRENCY	
Qtys \ Costs	Vendors	Sales Prices	Def	tails 1	I De	etails 2	QuickBooks	®
Costs: Average	7.000013				Area	Quantiț	y Location	
Standard	10.000000	Assembly Cost Details		1	Stores	990.00	00	
Last PO	7.000000			2	TEST/MRB	2.00	00	
On Order	5.000	Display &		3	R&D			
On Demand	1.000	Update		4	DEMO			
MRP Available	984.000	Std Order Qty	0.000	5	INCOMP ENGINEER			
Estimated Usage		Order Multiple		7	QC HOLD			
Safety Stock:				8	RMA			
Minimum Qty	10.000			9	STAGING	, 		
Maximum Qty				10	SCRAP	, 	- <u>(</u>	
				11	RESERVED			
Stock & Issue Unit	EACH	Date of Last	PI/CC	12	Area-12			
Lead Time (Days)	2				VVIP	73.00	00 Audit WIP	
Delete	<u>Ū</u>	l Log Book	Part	<u>S</u> tatu:	s	<u>O</u> k	Cancel	
artvend (c:\v863\partvend.o	dbf)		Record: 1/3	)	Reco	ord Unlocked		

Notice that similarly to the address book entry screen, several tabs exist in the inventory entry screen. A tab exists for Quantities/Costs, Vendor Information, Sales Prices, Manufacturers/Model Number/Alternate Part numbers, and Miscellaneous data. Each tab is explained in detail in the Inventory Chapter. For purposes of this Tutorial, be sure to enter the part description, a lead-time of 1 day and under the Sales Prices a price of \$1,500.00 for Level 1 Quantity 1.

With all of the information entered, select Ok to have this entry saved. Congratulations, you have entered your first part.

# 3.1.6.2 Editing Parts

At this time, we will edit the part we just entered.

Select Modules, Inventory, and Edit. Select the same part number we just entered. Edit this part so that the Lead-time is 2 days. Click <u>Save</u>.

After making sure you successfully changed the lead-time for the bike assembly, take a few minutes to enter two more addresses, Smith Bikes and Canonwale, Inc., and the remaining parts for the bike assembly. The picture below lists the parts to create and the vendor to use for each part. For the sake of time, many of the basic fields are left blank. Please however enter:

- 2 days for the lead times on all parts and assemblies while in the Quantities\Costs tab.
- A STD cost of \$5.00 for every inventory item using the Cost window, Standard section.
- A purchase price of \$5.00 using the Vendor tab.

Associate each part with the applicable vendor using the vendor tab and ellipsis button [...] next to the Address ID field. The ellipsis button allows users to scroll through the address book to find an applicable vendor. Finally, when you get to the bolts enter a purchase price of \$0.2500 for quantity 1 and enter quantity 100 at \$0.1000. Furthermore, be sure to enter a PO ratio of 100 for the bolts. We purchase bolts for the bicycle assembly in boxes of 100.

PART NUMBER	DESCRIPTION	VENDOR
000000001	BICYCLE TOP ASSEMBLY	
000000002	WHEEL	
000000003	FRAME, BICYCLE FRAME	CANONWALE INC.
000000004	DIRT TEASER TIRE	SMITH BIKE
000000005	GEAR CHANGER ASSEMBLY	CANONWALE INC.
000000006	BANANA BICYCLE SEAT	SMITH BIKES
000000007	PEDALS	SMITH BIKES
000000008	NGF INTERTUBE (NEVER GOES FLAT)	SMITH BIKES
000000009	SPOKES (WHEEL SPOKES)	SMITH BIKES
000000010	STEM FOR TUBE	SMITH BIKES
000000011	BRAKE ASSEMBLY	SMITH BIKES
000000012	TUBE ASSEMBLY	
000000013	BOLTS	SMITH BIKES

**Note:** If you edit the part number, you must select "Change Part Number" from the Inventory drop down menu. Using this feature, pc/MRP will automatically change the part number in all applicable modules in just one step.

Similar to the Address Book there are numerous fields that do a variety of things. All of these fields can be manually edited. Most of these fields require manual data entry. Most of these fields are self-explanatory. Several of these fields are automatically updated through performing specific actions. All of the following fields (except of the STD cost) are automatically calculated by pc/MRP. Users should not manually change these data.

### Average Cost per Unit:

Component part Average Cost is recalculated by pc/MRP every time a component is received. Use Inventory's Cost Roll-Up Option to roll-up the total component average costs into their respective BOM/Assembly Average Costs.

### Standard Cost per Unit:

Component part Standard Costs are entered and edited by hand. Use Inventory's Cost Roll-Up Option to roll-up the total component standard costs into their respective BOM/Assembly Standard Costs.

### Last PO Cost:

This field brings in the cost of the last Purchase Order made for this part. This cost type is not fully supported by pc/MRP as far as accounting is concerned.

### On Order:

This field contains the quantity on order from purchase orders. This field increases when purchase orders are made and decreases when receivers are made. This feature will be further discussed in purchasing.

### On Demand:

This field contains the quantity on demand from open work orders and open sales orders (for this item). This field increases by creating work orders or sales orders. This field decreases when sales orders are invoiced or parts are converted into assemblies from the work order.

### MRP Available:

This field contains the quantity available after allocation. This field is updated by running the single bucket (MRP) purchasing report or the optional module Infinite Bucket MRP. The MRP programs will allocate parts on hand and on order and populate the Quantity Available field with the quantity available after allocation.

These features will become more obvious as we make sales and work orders and run MRP reports. For the time being, we will just let this sink in.

**Note:** pc/MRP does not allocate things every time an order is entered. The quantity available field is only updated as described above. Therefore users should run the MRP once a day, to keep this number as close to accurate as possible.

**Note:** If the optional Infinite Bucket MRP has been activated, the date when the MRP was last run is displayed next to the MRP Available field. If the MRP was run today, this date is green, otherwise it turns red and bold (pc/MRP version **8.73D** and above). Software Arts, Inc suggests running the MRP every night as part of the Scheduled Tasks (see Ch. 15.16 in this Manual).

### 3.1.6.3 Deleting Parts

Deleting parts is exactly like deleting addresses. You must first mark the record for deletion and then remove marked records for deletion. To test this, delete the TUBE ASSEMBLY, part number 000000012. Once again, in the full version, deleting entries will be secured by your configuration code.

You should now be familiar with entering, viewing, editing, and deleting parts. If you have any questions about what these fields do or how to perform the tasks above, start the lesson over and refer back to the Manual.

Up to this time, we have discussed the Address Book and Inventory Modules. This next section completes the Data Entry Lesson by covering the Bills of Materials Module.

### 3.1.7 BOM Module

The BOM module is where all of your bills of materials (or recipes for assemblies) will be stored in pc/MRP. At this time, take a few minutes to read the Bill of Materials Chapter in the Manual. This lesson assumes you have read the BOM Chapter.

The BOM module is set up very similar to all other modules. To enter a new BOM simply select <u>N</u>ew from the BOM menu. To edit a BOM simply select <u>E</u>dit from the BOM menu. Most modules when printing have the Report option. For the address book and BOM module users select Print.

**Note:** All **parts** within a BOM must exist as an entry in inventory before you can create that BOM. Assemblies can exist in inventory but do not have to. If an assembly does not exist in inventory the BOM module will automatically create one.

Before we create a BOM in pc/MRP, it would be best to see one on a piece of paper.

**Bicycle BOM** 

BOM NUMBER         : 000000001           BOM DESCRIPTION:         BICYCLE TOP ASSEMBLY           DATE         : 01/31/2000           QTY         : 1.0000	REV : MODELNO:
UNCOSTED EXPLODED LEVEL BOM REPORT	
P/B ITEM BOM/PART NUMBER	DESCRIPTION
BOM 0001 00000002	WHEEL
.PART 0002 000000004	DIRT TEASER TIRE
.PART 0001 00000009	SPOKES (WHEEL SPOKES)
.BOM 0003 00000012	TUBE ASSEMBLY
PART 0002 00000008	NGF INTERTUBE (NEVER GOES FLAT)
PART 0003 00000010	STEM FOR TUBE
.PART 0004 00000013	BOLTS
PART 0003 00000003	FRAME, BICYCLE FRAME
PART 0005 00000005	GEAR CHANGER ASSEMBLY
PART 0006 00000006	BANANA BICYCLE SEAT
PART 0002 00000007	PEDALS
PART 0004 000000011	BRAKE ASSEMBLY
PART 0007 00000013	BOLTS

Notice how all of the various levels are separated by periods. Parts are labeled as PART and bills of materials are labeled as BOM. From this picture, we can deduce that parts and assemblies: 000000002, 000000003, 000000005, 000000006, 000000007, 000000011, and 000000013 are all on the first level of the Bicycle BOM. The WHEEL assembly contains parts 000000004, 000000013, and 00000009 and the BOM 00000012. The TUBE assembly contains two parts, 00000008 and 00000010.

To reinforce this idea of indented bills of materials we will make this BOM using the parts entered into pc/MRP in the Inventory lesson.

# 3.1.7.1 Entering Bills of Materials

We are now going to begin by entering the lowest level of the Bicycle BOM. Users can start by entering the top of their assembly or at the bottom. For this Tutorial, we will start at the bottom.

Select Modules, BOM, New.

Enter BOM number: 000000012 with a description of TUBE ASSEMBLY.

Select Ok

You should now be at the main BOM data entry screen as depicted below.

Add a new component	to BOM 00000012			
				Alternate Part #s
🛛 🛛 Item # 🛛 4	BOM Qty	1.0000		
Part#	Ту	pe 📃		
Description				
Manufacturer				
Model #				
Unit	Ave Cost	0.0000		
	Std Cost	0.0000		Staging Bin
	Last PO Cost	0.0000		
Reference Designator	rs			Delete
			<u> </u>	
				Create New Part
				Settings
			7	<u>C</u> ancel

We have just created the TUBE ASSEMBLY; now we have to add the parts for this BOM level. We will add the tube and stem inventory items to this assembly.

To add these items to this assembly: Enter the desired quantity (2). Then press the ellipsis button next to the **Part #** field. Search for the stem and press Ok. To add this to the assembly press Ok again.

Notice that we are now at the basic BOM edit screen. This screen allows users to edit the BOM, add additional items, save changes, enter reference designators (through the reference designator tab), view miscellaneous data (through the miscellaneous tab), and even revert the BOM. (Revert allows users to place the BOM back at the original condition, before editing.)

Select the Add Item button and add the NGF TUBE quantity 1 to this assembly. (After pressing Add Item button enter a quantity of 1 and press the ellipsis button to search and select the NFG TUBE.) Select: Save and Finished to save the changes and then exit the BOM module.

Note: Bills of Materials are assembled in the BOM module one level at a time.

**Note:** Labor parts can also be entered into BOMs. This allows users to calculate theoretical job costs.

Now we are going to add our next level. This level we will add not only parts, but also the newly built TUBE ASSEMBLY.

Select Modules, BOM, New.

Enter BOM number: 00000002 with a description of WHEEL.

Select Ok.

This entry is a little different however. The WHEEL already exists in inventory. pc/MRP is going to warn you about this. Go ahead and select Yes.

		Creating a new BOM					
		BOM Number					
New BON	1 number e	xists in Inventory				-	X
?	BOM numb	er 000000002 already exist	s in the Inventory ta	able. Doyou v	vant to R	e-use this part numb	er?
		(Yes	No	Cancel			
			<u>O</u> k j	<u>C</u> ancel			

Now we can add our parts just as we did before. Enter the first part, Dirt Teaser Tire. Click on Add Item.

Now simply add the remaining items. Add the spokes, quantity 40. Add a few bolts, quantity 4. Finally, add the TUBE ASSEMBLY just like you would any regular part. Press Save and Finished when you done.

Now on your own...

Select Modules, BOM, New.

Enter BOM number: 000000001 with a description of BICYCLE TOP ASSEMBLY.

Select Ok

Enter the items that finish off this assembly so that it matches the picture below.

00	00000	01: B	ICYCLE TOP ASSE	MBLY (Edit Mode)	
	Item	Туре	Part Number	Part Description	Quantity 🔄
►	1	A	000000002	WHEEL	2.0000
	2	Ρ	000000007	PEDALS	2.0000
	3	Р	000000003	FRAME, BICYCLE FRAME	1.0000
	4	Р	000000011	BRAKE ASSEMBLY	1.0000
	5	Р	000000005	GEAR CHANGER ASSEMBLY	1.0000
	6	Р	00000006	BANANA BICYCLE SEAT	1.0000
	7	Р	000000013	BOLTS	10.0000
					7
С	compor	nent	Ref. Designators	Miscellaneous	<u>A</u> dd Item
	lte	m # [	1 8	OM Qty 2.0000 Alternate Part #s	<u>E</u> dit Item
	Pa	art#[	00000002	Type Assembly	Move to:
	Descrip	¦			<u>S</u> ub-Assy
			WHEEL		Parent Assy
Ma	anufact	urer			Ohennes
	Mod	el# [			- Changes:
		Unit [	Av	/e Cost 0.0000	— Sa <u>v</u> e
		L	Standa		<u>R</u> evert
				Staging Bin	
			Last P	0 Cost 0.0000	<u>F</u> inished

We have just completed the entire Bicycle BOM.

# 3.1.7.2 Editing the Bills of Materials.

Similar to everything in pc/MRP if you wish to edit something, select the module you wish to edit and select edit.

Select, Modules, BOM, and EDIT. Select BOM 00000001. When you select an item that is an assembly (depicted by an A in the Type column), you can use the **Move To: Sub-Assy** and **Parent Assy** features to scroll through the various levels of your assembly. Scroll to the TUBE ASSEMBLY. In the quantity field under BOM DATA, enter "1.0000" for the STEM quantity. We do not want to double up on STEM ordering.

Now just to see what we have done select Modules, BOMs, Print BOMs/Pick List/Where Used and select the Costed Exploded Report. Scroll to enter your BOM number. Select Print - Narrow and press the OK button. Your report should look very similar to the example report at the beginning of this section. If it does not, edit the BOM and run the report again. The BOM you created must be exactly like described above, for our purchasing results to match.

### 3.1.7.3 Deleting Parts within a BOM

Similar to all other areas of pc/MRP the deletion process is a two-step process. You must first mark the entry for deletion and then delete marked records. If you go into a BOM to delete a part and the delete button is not accessible, you do not have the Action Item Edit selected, or you do not have deletion rights in the Advanced Password Module.

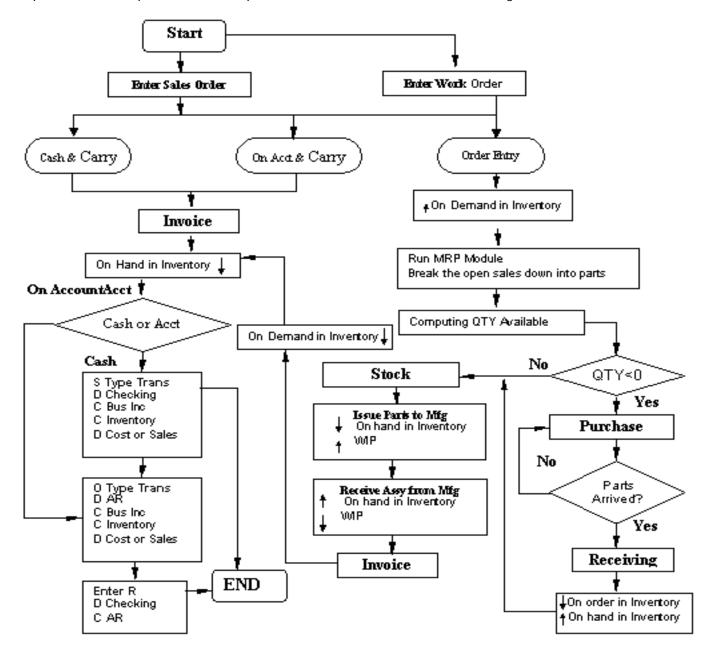
**Note:** There are several useful options in the BOM drop down menu. From that menu, you can delete a BOM, duplicate a BOM, change a BOM number, change the BOM description, and Audit BOMs.

**Note**: You can view the image for that specific part or BOM by selecting BOM Image or PART <u>I</u>mage from the miscellaneous tab.

**Note**: Users can also view where used for a part or assembly and recalculate assembly costs in the miscellaneous tab.

### 3.1.8 Inventory Flow Model

pc/MRP has a simple Order-to-Cash process. Take a few minutes to view the diagram below.



As you can see, Sales Orders and Work Orders start the entire process. These orders are based on your demand from customers or a desire to build items to stock. Items that are available for sale are directly invoiced, inventory is automatically deducted from stock, and we can begin building some A/R (Accounts Receivable). Sales Orders on order entry and Work Orders that have to be built take a different path: they will go through the MRP process. Purchase orders and receivers will be made for the piece parts required and build A/P (Accounts Payable), the stockroom will be used to convert parts to assemblies, and finally we will sell the item once again building A/R. It is important to understand this basic process. Through the next several sections, we will follow this process.

### 3.1.9 Sales Orders

Sales orders and work orders generate demand for parts and assemblies. This demand sets in motion your purchase orders, receivers, stockroom, invoicing, and inevitably accounting. pc/MRP can use work orders and sales orders in a number of different ways since both can be issued into manufacturing. For complete details, refer to the Sales Order Module and Work Order Module in the Manual.

In short, one method uses work orders to build to stock and sales orders to build per customer order. Another method uses work orders to forecast demand while sales orders represent actual demand. pc/MRP can do this because demand from Sales Orders and Work Orders can be included or excluded from purchasing requirement reports. The differences between these two methods will become apparent once we run our MRP purchasing reports. For now, this Tutorial will use method one, where we use work orders to build to stock and sales orders for customers. The important thing to consider is once you have chosen how you are going to utilize Sales Orders and Work Orders, you should stick to this method. If you keep changing how requirements are generated, you are increasing the probability of making mistakes.

### 3.1.9.1 Entering a Cash and Carry Sales Order

We will first simply create a Sales Order for a few bikes. To do this, first view the bicycle assembly in inventory (part 000000001). Make sure the quantity in Area Stores is 2. If it is not, edit the quantity so that it is 2. (Note: This is for testing purposes. In your production copy, users should not manually edit the onhand quantities.)

Now, select Modules, Sales Order, and New.

The next screen allows the user to select sales type, terms, tax code, product issuing area, and shipping method. For the purpose of this Tutorial, we will really only discuss the Sales Type. The other fields are explained more in the Sales Order Module Chapter. Understanding the Sales Type field is essential however and deserves more attention.

The Sales Type directly affects inventory and invoicing. Sales Types entered as Cash and Carry or On Account and Carry automatically decrease the stores quantity of the line items on the sales order and creates an invoice. Thus, if you have these items in stock or not, by telling pc/MRP you are carrying the line items out the door, on-hand quantities will decrease.

**Note:** pc/MRP will not automatically convert parts into assemblies or back flush in the sales order module. All back flushing is done through the Stockroom Module or by running the Convert Parts to Assemblies utility.

Select a sales type of On Account and Carry, issuing from Area 1, and press OK.

On the sales order entry screen notice that there is a Part Lookup checkbox and the part can be looked up by Part Number, Description, or Model Number. Having the **Part Lookup** and **Root Address Lookup** check boxes checked means that data from the Address module and Inventory module will automatically be entered when you choose an address or part that already exists in those DBF files. To make an address or part from this screen select one of the check boxes under Data. If the applicable address has an alternate Bill to Address or Ship to Address, they will automatically be populated in the sales order.

**Note:** To change the BILL TO or SHIP TO address, the customer address or part after initial selection simply check the desired box, highlight the root address of the desired entry, type in a partial for the entry and hit enter. This will bring back the scrolling box for selection of the correct entry. The Invoice form does not have these check boxes.

At this time, check "Create Address." We need to enter our new customer, TIM. Tim is purchasing two bicycles today. Once you have pressed Create Address, enter some applicable data for Tim in his address entry. Then select OK to finish the address entry. Now put the cursor back into the top left CUSTOMER field and type T and press enter. This allows you to scroll to the applicable address. Select Tim as our customer and press enter.

The customer data for TIM should have automatically appeared on the sales order screen. Now put the cursor down into the description field and type the first few letters of "BICYCLE" and press enter. This automatically

brings up the part number, model number, description, and price. We could have also selected the "BICYCLE" by entering the applicable part or model number.

Enter two for the quantity of bikes being purchased.

With the bicycle assembly selected click on the words Part Number. This is a shortcut method to view the part selected in the sales order. The inventory screen for this assembly should appear. Notice that we just happen to have 2 finished bikes in area Stores (1). Press Cancel to get back to the sales order screen.

Select Finish on the sales order screen.

This next screen confirms that an invoice is going to be made since the sale was entered as On Account and Carry or Cash and Carry. Press OK.

This screen explains that two bicycles are being removed from inventory area Stores. Press OK. If you wish to print the Invoice, you can do so at this screen.

On this next screen, if you wish to view or print a shipping label press OK.

On the final screen, we can select No.

At this time go to the inventory module and view the bicycle assembly part. Notice that in the Stores area the quantity was driven to 0. As explained above and reinforced with this sales order, if you choose a sales type as cash and carry or on account and carry, it is automatically invoiced and the quantity field will decrease in the area chosen and by the quantity chosen in the sales order.

# 3.1.9.2 Entering Order Entry Sales Orders

Now, enter a new sales order for Tim but select Order Entry as the Sales Type. Put in quantity 1 and a DATE REQ (date required) of one week from today's date.

Note: to add additional line items we can select Add Item. To view these various items you can press Back and Next.

After entering the sales order, view the bicycle assembly in inventory. Notice that since this is order entry we have only created demand for this assembly. The QTY ON DEMAND field should be 1.

Take a few seconds to view the other parts in this assembly. Notice nothing has changed with these parts and the various quantity fields associated with these parts. Once again as mentioned above, when we run our purchasing report (single bucket MRP) or the optional Infinite Bucket MRP, the MRP available field will be updated.

# 3.1.9.3 Editing a Sales Order

To edit a sales order or work order is similar to editing any other entry in pc/MRP. Simply select edit in the drop down menu for that module. If you edit the SO quantity the on-demand quantity in inventory will automatically follow. It is important to note however, that if you frequently delete sales orders you should run the Audit sales orders function. This function re-populates the on-demand quantity and is representative of the updated sales orders. Edit the 'order entry' sales order for TIM to be quantity 2.

### 3.1.10 Work Order Module

Besides our existing sales order, we want to build three bicycles to stock. At this time, enter a Work order for three additional bicycles with a DATE REQ of 14 days from now. Work orders are entered the same way sales orders are. You do not need to enter a customer though. Simply enter the desired assembly or subassembly, the quantity and date desired, and press Finished.

**Note:** There is no need to enter a Work order for an existing Sales Order. That would be double entry and would create false data in the On Demand field for the top assembly.

Once again, editing work orders is similar to all other modules. Simply select edit in that module. At this time, we have entered demand for 4 bicycles. Take note in the inventory module that none of the subassemblies has been affected yet.

### 3.1.11 MRP, Scheduling Production, and Purchasing

Since we have nothing on hand to build these bicycles, we will now run our MRP. Then we will print/display reports. These reports will tell us everything we need to buy to fulfill our orders. We will generate action items two different ways. First, we will use the standard MRP Single Bucket report, and then the optional Infinite Bucket MRP. After that, we will briefly compare the two. From there, we will make purchase orders to fulfill the demand, receivers to receive the parts necessary to build, issue the parts to the stockroom, receive finished goods back into inventory, and then we will be ready to invoice.

The Purchasing MRP (all parts required) report and Infinite Bucket optional module is where all of the demand calculations are made. Once we run one of these reports, demand will populate all parts necessary to build everything that has been entered as a sales order or work order.

### 3.1.11.1 MRP, standard MRP purchasing report

We will first run the standard MRP purchasing report.

Select Modules, Purchasing, Reports. On the drop down menu, scroll to the bottom of the list and select the MRP Report (all parts required).

Purchase Reports	×
MRP Report (All Parts Required)	Sort by
Report Type  Consolidated C Min / Max	Vendor Account Number
Include Demand From: Sales Orders Work Orders On Hold Sale/WO Line Items	Send Report to Display
Inventory Areas: Inventory Ar	Report Type Standard © Custom
Print TRACE Calculations	Save Settings as Default

**Note:** Users can choose to include or exclude demand from Sales Orders or Work Orders. As mentioned above, this allows users to use work orders in several different ways and prioritize demand.

**Note:** The Consolidated report looks at both true demands from Sales Orders and Work Orders and takes into consideration MIN and MAX quantities set up in inventory. The MIN/MAX report only takes into consideration MIN and MAX quantities that were populated in the inventory entry screens.

Note: Print Trace Calculations creates a report that shows where demand is coming from for each individual part.

In the 'Include Demand from' field, leave the Sales Order and Work Order check boxes checked. Select Consolidated, area 1 Stores, Sort by Vendor, Display and press Ok.

A report is created that shows all current demand. Take note that all demand is representative of needing to purchase parts to build 4 bicycles. Furthermore, even though our sales order is not due for a week and our work order is not due for 2 weeks the standard MRP not utilizing lead-times does not schedule purchasing or builds.

MRP CONSOLIDATED SHORTAGE REPORT						
DESCRIPTION	NODEL NUMBER	VENDOR	PHONE #	COST UNIT	QTY REQ	
FRAME,	X234-987	CANONWALE INC.	111-111-1111	0.0000	4.00	
GEAR	ABTTR-445778	CANONWALE INC.	111-111-1111	0.0000	4.00	
DIRT TEASER		SMITH BIKE	111-111-3211	0.0000	8.00	
BANANA		SMITH BIKE	111-111-3211	0.0000	4.00	
PEDALS		SMITH BIKE	111-111-3211	0.0000	8.00	
NGF		SMITH BIKE	111-111-3211	0.0000	8.00	
SPOKES		SMITH BIKE	111-111-3211	0.0000	320.00	
STEM FOR		SMITH BIKE	111-111-3211	0.0000	8.00	
BRAKE		SMITH BIKE	111-111-3211	0.0000	4.00	
BOLTS		SMITH BIKE	111-111-3211	0.0000	72.00	

After examining this report, press Ok.

The Excess Inventory Report allows users to more closely track inventory. Go ahead and view this report as well by choosing the constraints you would like. At this time, there will not be any misallocation.

After viewing the Excess Inventory Report or hitting cancel, the next option is to automatically create purchase orders. At this time, select No. We are not quite ready to make purchase orders yet.

Take a few minutes to see all of the changes made in inventory. For all parts required, the quantity available decreased since we do not have these parts available. Once again, the quantity available field in inventory is only updated through running the MRP reports. If we had parts in inventory, the quantity available field would be the difference between existing inventory, on order parts, and demand representative of the constraints chosen. Furthermore, nothing in the sub-assemblies used has changed. pc/MRP does not place demand on these sub-assemblies unless they are directly created through a Sales Order or Work Order. Only the quantity available field for individual parts utilized in the builds has changed.

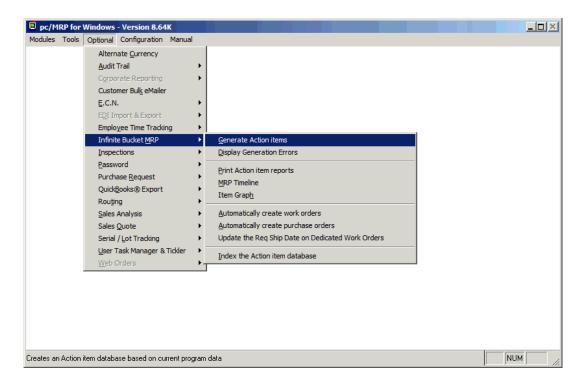
You might want to print this report or to make a screen shot, to compare it against the Infinite Bucket report. Once again, select No when you are prompted if you want to "Automatically create Purchase Orders".

### 3.1.11.2 Infinite Bucket MRP

This time we will run the more advanced MRP, the Infinite Bucket. What this will do is utilize our lead times and provide a schedule to buy, issue, make, and sell.

**Note:** The Infinite Bucket MRP is an optional module. This module like most of the other optional modules is fully testable in the trial. To activate this module or any other optional module, select Configuration, Module Activation, Activate, and Yes. Optional modules are testable throughout the use of the trial. Once the trial is activated into a single user or multi-user version, optional modules can be activated for a 10-day trial period.

After activating the Infinite Bucket MRP module, select optional, Infinite Bucket MRP. You should have the options as depicted below.



Select Generate Action Items. This step creates a database that we will access to create our purchasing reports. This action should be performed once a day, depending on how fast things are in your business.

Infinte Bucket MRP Generation	ition Criteria	×
Data to be considered	l by the MRP generation process	
Inventory in Areas	Demand From	Demand For
STORES TEST/MRB R&D	✓ Open <u>S</u> ales Orders ✓ Open Wo <u>rk</u> Orders	Inside Labor Requirements
DEMO	Open <u>Q</u> uotes (Forecast)	Minimum Qty Stocking Levels
	C On Hold Sale/WO Line Items	Calculation Settings
C HOLD	Sale/WO with Preliminary BOM	ouronation octaings
	Select	
Select All Clear	<ul> <li>Primary Vendor</li> <li>Vendor with best price</li> </ul>	<u>O</u> k <u>C</u> ancel

Select to run your MRP on both Sales Orders and Work Orders and use just inventory area 1. Click OK.

You will see several screens flash in front of you. If you receive any errors in this process, you will have to view the errors and go back and fix them. Once the MRP generation process is complete, you will be back at the main pc/MRP screen.

Now select Optional, Infinite Bucket, and Print Action Item reports.

Infinite Bucket MRP Reports		×
All		Sort by Ending Date
		Send Report to
Include	Consoli <u>d</u> ate	
Initial Onhand	🖲 Dail <u>y</u> 🔿 Weekly	Report Type
Purchase Orders	C Monthly	Standard C Custom
BUY Actions	C Quarterly	<b></b>
✓ ISSUE Actions	Date Range	,
SALE Actions	<ul> <li>All Dates</li> </ul>	Show Review Item Only
Make Actions	C Specified Date From: //	☐ Sa <u>v</u> e Settings
LABOR Actions	To: //	<u>Ok</u> <u>C</u> ancel

We will keep the default settings to look at this report. However, you should take note at all of the different options available to sort or parse the data. Your report should look similar to the picture below.

ALL, FOR ACTION TYPES(PO, BUY, ISSUE, SALE, MAKE, LABOR), SORTED BY DATE									
ACTION	DRIVING SALES/WO	) ITEM#	VENDOR	PART/ASSY #	DESCRIPTION	QTY	START DATE	END DATE	REV IEW
DATE	07/1	7/2000							
BUY	000002	0001	SMI001	000000004	DIRT TEASER TIRE	****	07/14/2000	07/17/	2000
ISSUE	000002	0001		000000004	DIRT TEASER TIRE	****	07/17/2000	07/17/	2000
BUY	000002	0001	SMI001	00000008	NGF INTERTUBE (N	****	07/14/2000	07/17/	2000
ISSUE	000002	0001		00000008	NGF INTERTUBE (N	****	07/17/2000	07/17/	2000
вич	000002	0001	SMI001	000000009	SPOKES (WHEEL SP	****	07/14/2000	07/17/	2000
ISSUE	000002	0001		000000009	SPOKES (WHEEL SP	****	07/17/2000	07/17/	2000
BUY	000002	0001	SMI001	000000010	STEM FOR TUBE	****	07/14/2000	07/17/	2000
ISSUE	000002	0001		000000010	STEM FOR TUBE	****	07/17/2000	07/17/	2000
MAKE	000002	0001		000000012	TUBE ASSEMBLY	****	07/17/2000	07/17/	2000
вич	000002	0001	SMI001	000000013	BOLTS	****	07/14/2000	07/17/	2000
ISSUE	000002	0001		000000013	BOLTS	* * * * *	07/17/2000	07/17/	2000

Take note that everything is sorted by date with an action item listed for each part and assembly. Take a few minutes to examine this page. The Infinite Bucket can be an invaluable tool if businesses want to plan and keep inventory (costs) to a minimum.

Once again, print this report or take a screen shot.

### 3.1.11.3 MRP, comparing the two MRP options

**Note:** At this time, nothing has changed in inventory after running our regular purchasing report. Companies do not have to run both MRP reports. Companies either want the extra planning module or simply use the standard MRP Report (all parts required).

Take a few minutes to study the differences between the two different MRP reports. If you have a small company and like to take the time to plan things yourself, you might find the standard MRP in the Purchasing module adequate. If you want to schedule things, and produce more detailed reports about what to do and also when, then the Infinite Bucket is your best bet.

We are now going to act on the recommendations of our MRP reports and purchase the required parts for the sales order and work order entered above.

### 3.1.12 Purchasing Module

When entering purchase orders, we are entering individual parts or purchased assemblies and choosing a vendor. At this time, take a few minutes to read the Purchasing Module Chapter.

Choose the Banana Bicycle part in inventory. Make sure this part has a vendor. If this part does not have a vendor add an applicable address or choose and existing vendor. After viewing this part in inventory, take note that the quantity available field is -4. Now go to the Purchasing module and select New. Choose the bicycle seat by entering in the part number or entering the description. Vendor data should automatically appear.

Once again, take note of the Auto Look-up and Data check boxes. These can be used to save time.

By entering the part number or description first, a vendor list will pull up. Try to enter the quantity first, and the STD/COST per unit price break is automatically entered with the best vendor for that quantity.

To add items to this purchase order select Add. These buttons by now should be very familiar.

**Note:** The Clone button and Breakdown buttons can be utilized to automatically duplicate or break down orders to have multiple shipping dates.

After selecting the Banana Seat, enter the quantity of 4 and a due date of tomorrow. Press Finished. Now, go back to the inventory module to see what fields have changed. The QTY ON ORDER should now be 4.

Now that we have made our first purchase order, we will have pc/MRP do the rest of the work. Go to the optional module, the Infinite Bucket, and select to Generate Action Items. By creating the purchase order, our requirements have changed. After generating our action items, you can view the reports and see that we no longer have a buy requirement for the seats. Now select Optional, Infinite Bucket, and Automatically create Purchase Orders. Select Weekly Orders under ORDER CONSOLIDATION. This will consolidate all of the multiple orders for the same part by week.

**Note:** Automatically creating purchase orders is very handy. However, look at the purchase order for Bolts. It did two things that we could have prevented. #1, we did not enter a standard order quantity into inventory. If we had entered a standard order quantity of 100, then we would have had one purchase order for quantity 100. #2, when we choose to automatically create purchase orders, pc/MRP does not take advantage of any price/quantity breaks. To take advantage of our price break, we would have had to manually enter the purchase order. These are all things to watch for.

After automatically creating the purchase orders, we will bypass a few days and receive these purchase orders into inventory.

### 3.1.13 Receiving Module

The Receiving module is the next logical step in this process. We must receive parts and inform pc/MRP that we have parts to build our assemblies. This is what the Receiving module does. Refer to the Receiving Module Chapter for complete details.

At this time, enter a Receiver for the Banana Seat. As with the creation of new entries throughout pc/MRP, to do this, select <u>New</u> in the receiving module. You will be able to scroll for the associated purchase order and press OK. Once we have went through several screens informing us of everything that pc/MRP is doing we can accept this transaction. Continue to enter the rest of the receivers. You may also notice once you have started on a purchase order that has multiple line items you do have the option to automatically receive the remaining line items. You may want to take advantage of this to expedite this process.

**Note:** pc/MRP can receive partial shipments. You can also edit receivers. However, there is not an audit function to correct edited receivers. Once a receiver is edited, pc/MRP will offer to update the received qty for the purchase order, adjust the average cost, inventory area qty and on order qty. Users should keep these boxes checked.

Once again, view several parts in inventory. Your stores quantity should have increased. Also, notice that for the top bicycle assembly still nothing has changed. You could even run an additional MRP and you will find that the Single Bucket MRP has no Action Items. The Infinite Bucket however will still have issues, sales, and, makes.

Now that we have received our parts into inventory, we are ready to begin building. We will next utilize the Stockroom Module to convert parts into assemblies.

### 3.1.14 Stockroom Module

The Stockroom module is where we turn piece parts into assemblies, or back-flush. Select Modules, Stockroom New. There are several types of transactions available. To issue sales orders and work orders to the manufacturing floor use the I type transaction. To review the rest of these transactions refer to the Stockroom Module.

At this time select the I type transaction and select the order entry Sales Order that we created. Enter and accept the issuing quantities. Notice in inventory that parts have now moved from stores area 1 into WIP.

To receive this back as a finished assembly enter the R type transaction in the stockroom. Choose the Sales Order issued and receive this Sales Order back into area 1. WIP for the parts used was cleared, and onhand qty for the assembly has increased.

Take a few minutes to review this entire process. Go into inventory and view a few parts and the final Bicycle assembly. You will notice that all of the individual component parts have decreased the precise amount used to build the bicycles. The quantity of the bicycles in inventory has now increased.

**Note:** Once received, pc/MRP will only track one serial number per invoice line item. For multiple serial numbers per line item, the optional module Serial/Lot Number Tracking can be utilized.

**Note:** When entering the I type transaction, you have the choice to issue sub-assemblies or parts only. You can also do partial issuing and then utilize the P, F or M stockroom transactions for makeup issues. There is also an undo feature; transaction T that takes back issued parts.

**Note:** If you are often editing stock room transactions, you can use the audit WIP function in the Inventory module to help clean up things.

**Note:** It is always best to utilize the various stockroom transactions to help clean things up when mistakes have occurred. This creates a record for each transaction. When inventory is simply edited, there is no paper trail. (See Chapter 16.8 for the optional Audit Trail Module.) To help with this you can lock-up various editing processes from the end-users through **Option 62** in the Settings and Utilities.

**Note:** Work orders are issued and processed in the exact same way as sales orders.

Go ahead and build the work order too.

The final step in this process is invoicing. In this step, we will relieve quantities in the storage areas representative of the 'order entry sales order' we entered. This step is taken in the Invoicing Module.

### 3.1.15 Invoice Module

To enter a new invoice, select Modules, Invoicing, and New. You will have to choose the terms of the sale and accept the invoice information. Once again, if the invoice must be edited, you may wish to edit the sales order as well. You may even want to edit the sales order first, (before creating the invoice), thus the invoice will be automatically representative of the sales order. For more information, refer to the Invoice Module in the Manual.

Go ahead and invoice the sales order on account. Once you have invoiced the sales order, go into the Inventory Module and view what has changed. Inventory for the finished assemblies has decreased by the quantity of the invoice. The sales cycle is now complete. The process to pay vendors and track accounts receivable has just begun. If you anticipate using pc/MRP for accounting, continue. If pc/MRP is going to be just an inventory and planning tool, now might be a good time to clean up this trial copy and start entering some of your inventory.

#### 3.1.16 Accounting

The fastest way to become familiar with pc/MRP's Accounting System is by actually using it. By entering the work sheet transactions on the following page, you will become familiar with pc/MRP's easy to use accounting system.

The first entry, labeled 000001 represents a typical transaction for starting an account or business. pc/MRP will automatically increment this transaction number by one as transactions are made. Do not create your own transaction numbers. Transaction numbers should be chronological with no missing numbers.

To set up your company all of the company's assets are debited, and the starting capital account is credited an equal amount. Then the company's liabilities are credited and the starting capital account is debited an equal amount.

To make the same starting entries in pc/MRP, go to Modules, Accounting, GL Transactions, and New Transaction, select A for All types of transactions and press OK. pc/MRP will give you the next available transaction number. You will now see the transaction data entry screen. Take note that the transaction number is 000001.

#### Transaction 000001

Click on the Description field and enter the description as STARTING BUSINESS. Throughout all of these first three transactions, enter a description of STARTING BUSINESS. Now go to the first debit account field. Enter 10100000 and you will see the description, CASH ON HAND appear next to the account number. Enter the sum \$5000 under the AMT Field. Next debit account 10200000 for \$10,000 and account 12100000 for \$6000 (pc/MRP will take up to four debit accounts and five credit accounts in one bite). Notice at the bottom right in red pc/MRP says the transaction is currently UNBALANCED. To balance the three debit accounts, credit Account 25100000, STARTING CAPITAL with \$21,000. If the transaction is now balanced, press Save to enter this transaction. pc/MRP will ask, "Do another record?" Select Yes. If the transaction is not balanced, review the steps above and look to see where you made a mistake in entering the dollar amounts.

After selecting Yes, you should now be at transaction number 000002.

#### Transaction 000002

Now, debit accounts 13100000 for \$15000, account 11100000 for \$4000, and account 15100000 for \$1000. To balance the debit accounts, credit account 25100000, STARTING CAPITAL for \$20,000. Once again make sure the transaction is Balanced. If the transaction is balanced, press Save to enter this transaction and Yes to continue to the next transaction. If the transaction is not balanced, review the entries and make the necessary corrections.

#### Transaction 000003

Debit account 25100000, STARTING CAPITAL \$25000 and credit account 24100000, NOTES PAYABLE \$25000. If the transaction is balanced, select Save to save this transaction and select No when asked if you wish to enter another record. If the transaction is not balanced once again review the dollar amounts entered.

#### Transaction 000004

This final starting entry is only necessary for companies using periodic accounting methods and not companies using perpetual accounting methods. This type of transaction labeled 000004, prepares the inventory for purchase and sale transactions during the month. It does so by moving the stock from an asset account 12100000 to an expense account 40100000. Enter STOCK INVENTORY ADJUSTMENT in the description field. Debit account 40100000 for \$6,000 and credit account 12100000 for \$6,000.

Transaction 000005 - Transaction 000015

Enter the remaining transactions shown on 3.1.17.1

Transaction 000014 is only necessary for companies using periodic accounting methods and not companies using perpetual accounting methods. It moves the months end remaining inventory back into the asset account so that the month's retained earnings will reflect the changes in inventory levels.

Once all transactions have been entered, return to the Main Accounting Menu. Print out the transactions you have just entered by selecting Accounting, Reports, General Ledger Transactions. Select All Transactions (3 places), and select Print. Your Transaction Report should match the sample Transaction report found in the Accounting Report Section of this Manual.

If the Transaction Report looks good, return to the Main Accounting Menu and post the month by selecting Post/Re-post a Month and Print Financials. Enter the month and year that contain the above entries. Since pc/MRP stores the transactions in a database, you can edit incorrect transactions and repost the month if necessary.

pc/MRP's posting program begins by making sure the initial debit and credit balances are equal.

When pc/MRP finishes posting the month, it automatically initializes the next month by: (1) zeroing out all starting balances of revenue and expense accounts; (2) transferring forward all asset, liability and equity accounts; (3) adding the retained earnings (rev - exp) to the YTD earnings.

Finally yet importantly, pc/MRP's posting program will automatically print out the month's financial statements such as Income Statement, Expense Distribution Report, Trial Balance, YTD Revenue and Expense Report, and a Detailed Transaction Report. If you entered all the transactions correctly, your reports should match the sample reports found on the following pages.

# 3.1.17.1.1 General Ledger Transactions Report for Transaction Lesson

pc/MRP for Windows - Version 8.20 Modules Tools Optional Configuration 1							_ 🗆 🗵
Print Print Preview							
	x 🗣 🖨						
Software Arts					PAGE NO:1		
03/09/2007 09:10:22 AM					PRTRAN. FRX		
GENERAL LEDGER ALL TRAN	SACTIONS						
TRANS# DATE CHECK#	DESCRIPTION COMPANY	INVOICE# RELATED DOC#	ACCT		DEBIT AMT	CREDIT AMT	
000001 03/07/07	STARTING BUSINE		10100000	CASH ON HAND	5000.00	0.00	
000001 03/07/07	STARTING BUSINE		10200000	BANK	10000.00	0.00	
000001 03/07/07	STARTING BUSINE		12100000	STOCK INVENTORY	6000.00	0.00	
000001 03/07/07	STARTING BUSINE		25100000	STARTING CAPITAL	0.00	21000.00	
000002 03/07/07	STARTING BUSINE		13200000	SHOP EQUIPMENT	15000.00	0.00	
000002 03/07/07	STARTING BUSINE		11100000	ACCTS RECEIVBLE	4000.00	0.00	
000002 03/07/07	STARTING BUSINE		15100000	PREP EXPENSES	1000.00	0.00	
000002 03/07/07	STARTING BUSINE		25100000	STARTING CAPITAL	0.00	20000.00	
000003 03/07/07	STARTING BUSINE		25100000	STARTING CAPITAL	25000.00	0.00	
000003 03/07/07	STARTING BUSINE		24100000	SHOP EQUIPMENT	0.00	25000.00	
000004 03/07/07	STOCK INV ADJUS		40100000	START INVENTORY	6000.00	0.00	
000004 03/07/07	STOCK INV ADJUS		12100000	STOCK INVENTORY	0.00	6000.00	
000005 03/07/07	KMART		41100000	PURCHASE	3000.00	0.00	
000005 03/07/07	KMART		41400000	FREIGHT	400.00	0.00	
000005 03/07/07	KMART		20100000	ACCTS PAYABLE	0.00	3400.00	
000006 03/07/07	P GOMEZ		50100000	WAGES	500.00	0.00	
000006 03/07/07	P GOMEZ		22100000	PAYROLL TAX PAY	0.00	50.00	
000006 03/07/07	P GOMEZ		10200000	BANK CHECK	0.00	450.00	
000007 03/07/07	STARTING BALANC		11100000	ACCTS RECEIVABLE	15000.00	0.00	
000007 03/07/07	STARTING BALANC		10200000	BANK CHECKING	12000.00	0.00	
000007 03/07/07	STARTING BALANC		61500000	RENT	1000.00	0.00	
000007 03/07/07	STARTING BALANC		60100000	ADVERTISING	50.00	0.00	
000007 03/07/07	STARTING BALANC		61000000	INSURANCE	700.00	0.00	
000007 03/07/07	STARTING BALANC		61400000	OFFICE EXPENSE	8.00	0.00	
-							
Prtrntmp	Record: 25/36	Exclusive					CAPS //

# 3.1.17.1.2 General Ledger Transactions Report for Transaction Lesson Continued

RANS# DATE	CHECK# DESCR	IPTION COM	PANY INVOICH	# RELATED DOC#	ACCT		DEBIT AMT	CREDIT AMT
00007 03/07/07	STARTI	NG BALANC			10200000	BANK CHECKING	25.00	0.00
00007 03/07/07	STARTI	NG BALANC			12100000	STOCK INVENTORY	1500.00	0.00
00007 03/07/07	STARTI	NG BALANC			70100000	DEPRECIATION EXP	125.00	0.00
00007 03/07/07	STARTI	NG BALANC			30100000	BUSINESS INCOME	0.00	15000.00
00007 03/07/07	STARTI	NG BALANC			11100000	ACCTS RECEIVABLE	0.00	12000.00
00007 03/07/07	STARTI	NG BALANC			10200000	BANK CHECK	0.00	1000.00
00007 03/07/07	STARTI	NG BALANC			10200000	BANK CHECKING	0.00	50.00
00007 03/07/07	STARTI	NG BALANC			10200000	BANK CHECK	0.00	700.00
00007 03/07/07	STARTI	NG BALANC			10100000	CASH ON HAND	0.00	8.00
00007 03/07/07	STARTI	NG BALANC			80100000	OTHER INCOME	0.00	25.00
00007 03/07/07	STARTI	NG BALANC			42100000	ENDING INVENTORY	0.00	1500.00
00007 03/07/07	STARTI	NG BALANC			14100000	DEPREC ACCRUED	0.00	125.00
							106308.00	106308.00

			Denne d
THE LEADER . LAR			Page: 1 (Detail Report
<b>Software Arts</b> 03/09/2007 10:52:41 A	м		
YTD PROFIT AND LOSS R	EPORT FOR 03/2007		
ACCOUNT#	DESCRIPTION	CURRENT MONTH	YTD
REVENUE		15000.00	15000.00
COST OF GOODS SOLD		-7900.00	-7900.00
COST OF LABOR		-500.00	-500.00
OPERATING EXPENSES		-1758.00	-1758.00
WRITE OFF EXPENSES		-125.00	-125.00
OTHER REVENUE		25.00	25.00
OTHER EXPENSES		0.00	0.00
INCOME TAXES		0.00	0.00
RETAINED EARNING TOTA	L	4742.00	4742.00

# 3.1.17.3 YTD Expense and Revenue Report for Transaction Lesson

t Preview - PRYTD.							_
/09/2007 08:39	15 AM	Print Preview		×			
D EXPENSE AND	REVENUE REPORT 03/2007 FOR	I I I I	▶ ▶I 100%	- 🎙 🖨			
CCT	DESCRIPTION	Current Month	סידע	Budget	YTD Budget	%Var	YTD % Var
100000	BUSINESS INCOME	15000.00	15000.00	8000.00	8000.00	187.50	187.50
100000	OTHER INCOME.INTEREST	25.00	25.00	0.00	0.00	0.00	0.00
EVENUE TOTALS		15025.00	15025.00	8000.00	8000.00	187.81	187.81
10 000 0	STARTING INVENTORY	6000.00	6000.00	0.00	0.00	0.00	0.00
100000	PURCHASES	3000.00	3000.00	0.00	0.00	0.00	0.00
100000	FREIGHT	400.00	400.00	0.00	0.00	0.00	0.00
100000	ENDING STOCK INVENTRY	-1500.00	-1500.00	0.00	0.00	0.00	0.00
OST OF GOODS SOLD	) TOTALS	7900.00	7900.00	0.00	0.00	0.00	0.00
100000	WAGES	500.00	500.00	5000.00	5000.00	10.00	10.00
OST OF LABOR TOTA	цS	500.00	500.00	5000.00	5000.00	10.00	468.50
100000	ADVERTISING	50.00	50.00	0.00	0.00	0.00	0.00
00000	INSURANCE, GENERAL.	700.00	700.00	0.00	0.00	0.00	0.00
400000	OFFICE SUPPLIES	8.00	8.00	0.00	0.00	0.00	0.00
50 0 0 0 0	RENT	1000.00	1000.00	0.00	0.00	0.00	0.00
PERATING EXPENSES	TOTALS	1758.00	1758.00	0.00	0.00	0.00	0.00
THER EXPENSES TOT	"ALS	0.00	0.00	0.00	0.00	0.00	0.00
NCOME TAXES TOTAL	s	0.00	0.00	0.00	0.00	0.00	0.00
100000	DEPRECIATION EXPENSE	125.00	125.00	0.00	0.00	0.00	0.00
RITE OFF EXPENSES	TOTALS	125.00	125.00	0.00	0.00	0.00	0.00
ETAINED EARNING T	n#al.s	4742.00	4742.00				

# 3.1.17.4.1 Trial Balance Report for Transaction Lesson

Preview - GLTRIAL.FRX	AL BALANCE 03/2007 (03/01/2	007 70 02/21/0	0.7)	
CCT	DESCRIPTION	TYPE	DEBIT	CREDIT
.0100000	CASH ON HAND	AC	4992.00	
.0200000	BANK CHECKING ACCOUNT	AC	19825.00	
.0300000	BANK SAVINGS ACCOUNT	AC	0.00	
1100000	ACONT/RECVB.CUSTOMERS	AC	7000.00	
1200000	ACCNT/RECVSOTHERS	AC	0.00	
1900000	A/RBAD DEBTS RESERV	AC		0.00
2100000	STOCK INVENTORY	AC	1500.00	
3100000	SHOP EQUIPMENT	AF	0.00	
3200000	FURNITURE & FIXTURES.	AF	15000.00	
3300000	TRANSPORTATION EQUIP.	AF	0.00	
3400000	LEASHOLD EQUIPMENT	AF	0.00	
3500000	LAND	AF	0.00	
3600000	BUILDING	AF	0.00	
4100000	DEPRECIATION ACCRUED	AD		125.00
4200000	AMORTIZATION ACCRUED	AD		0.00
5100000	PREPAID EXPENSES	AL	1000.00	
0100000	ACONTS/ PAYAB . VENDORS	LC	1000.00	3400.00
0200000	ACONTS/ PAYABLE OTHERS	LC		0.00
1100000	SALES TAX	LC		0.00
2100000	PAYROLL TAX. F.W.T.	LC		50.00
2110000	PAYROLL TAX. F I C A	LC		0.00
2120000	PAYROLL TAX. F.U.T.A.	LC		0.00
2120000	PAYROLL TAX.S.D.I.C.A	LC		0.00
2140000	PAYROLL TAX.S.W.T.C.A	LC		0.00
2150000	PAYROLL TAX.S.U.I.C.A	LC		0.00
2160000	PAYROLL TAX.E.T.T.CA.	LC		0.00
2900000	INCOME TAX. FEDERAL.	LC		0.00
2910000	INCOME TAX. STATE.	LC		0.00
3100000	MORTGAGES	LL		0.00
4100000	NOTES PAYABLE	LL		25000.00
5100000	STARTING CAPITAL	QN		16000.00
6100000	CAPITAL INCREASE	QN		0.00
7100000	CAPITAL DECREASE	QN	0.00	0.00
8100000	OTHER INVESTMENT	QN	0.00	0.00
9100000	COMPANY TAXES	QN	0.00	0.00
9900000	YTD RETAINED EARNINGS	QR	0.00	0.00
0100000	BUSINESS INCOME	RN		15000.00
0150000	FREIGHT INCOME	RN		0.00
0850000	SALE DISCOUNT	EG	0.00	0.00
0900000	REFUNDS	RN	0.00	
0100000		EG	6000.00	
0150000	STARTING INVENTORY	EG	0.00	
0130000	COST OF GOODS SOLD	EG	0.00	

# 3.1.17.4.2 The Trial Balance Continued

Please note that on the screen shot below the third page of the Balance Sheet shows Total Debits = 61100.00 and total credits = 61100.00.

nt Preview - GLTRIAL.FRX				
GENERAL LEDGER TRIAL	BALANCE 03/2007 (03/01/2	2007 TO 03/31/20	07)	
ACCT	DESCRIPTION	TYPE	DEBIT	CREDIT
41100000	PURCHASES	EG	3000.00	
41200000	OUTSIDE LABOR	EG	0.00	
41300000	SALES COMMISIONS	EG	0.00	
41400000	FREIGHT	EG	400.00	
41900000	PURCHASES DISCOUNTS	EG		0.00
42100000	ENDING STOCK INVENTRY	EG		1500.00
50100000	WAGES	EL	500.00	
50150000	OVERHEAD EXPENSE	EL	0.00	
51100000	PAYROLL TAXES	EL	0.00	
51200000	WORKERS COMP.INSURNCE	EL	0.00	
51300000	EMPLOYEES BENEFITS	EL	0.00	
60100000	ADVERTISING	EN	50.00	
60200000	ACCOUNTANT/ATTORNEY.	EN	0.00	
60300000	BAD DEBTS	EN	0.00	
60400000	BANK CHARGES	EN	0.00	
60500000	BOOKKEEPER	EN	0.00	
60600000	CAR AND TRUCKS	EN	0.00	
60800000	DUES & SUBSCRIPTIOONS	EN	0.00	
60900000	INSURANCE. AUTO.	EN	0.00	
61000000	INSURANCE . GENERAL.	EN	700.00	
61100000	INTEREST.	EN	0.00	
61200000	LAUNDRY AND CLEANNING	EN	0.00	
61300000	LEASING EQUIPMENT	EN	0.00	
61400000		EN	8.00	
	OFFICE SUPPLIES	EN	1000.00	
61500000	RENT		0.00	
61600000	REPAIRS	EN		
61700000	SHOP SUPPLIES	EN	0.00	
61800000	PROMOT/ENTERTE INMENT.	EN	0.00	
61900000	TRAVEL	EN	0.00	
6200000	TAXES	EN	0.00	
62100000	OTHER TAXES	EN	0.00	
62200000	PERMITS AND LICENSES	EN	0.00	
62300000	TE LE PHONE	EN	0.00	
62400000	TELECOMUNICATIONS	EN	0.00	
62500000	UTILITIES	EN	0.00	
63500000	OPERATING EXPENSE	EN	0.00	
70100000	DEPRECIATION EXPENSE	EW	125.00	
70200000	AMORTIZATION EXPENSE	EW	0.00	
80100000	OTHER INCOME.INTEREST	RO		25.00
81100000	OTHER EXP. PORTFOLIO	EO	0.00	
90100000	COMPANY TAX-FEDERAL.	ET	0.00	
90200000	COMPANY TAX. STATE	ET	0.00	

# 3.1.17.5.1 Balance Sheet

ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual <u>P</u> rinter			
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Software Arts		PAGE NO:	
03/07/2007 04:38:34 PM		PRDEBIT.	FRX L Report)
		(Decall	, Report)
BALANCE SHEET 03/2007 (03/01/2007	FO 03/31/2007)		
ASSETS			
CURRENT ASSETS			
10100000	CASH ON HAND	+	4992.0
10200000	BANK CHECKING ACCOUNT	+	19825.0
10300000	BANK SAVINGS ACCOUNT	+	0.0
1110000	ACONT/RECVB. CUSTOMERS	+	7000.0
11200000	ACONT/RECVSOTHERS	+	0.0
11900000	A/RBAD DEBTS RESERV	-	0.0
12100000	STOCK INVENTORY	+	1500.0
		TOTAL	33317.0
LESS DEPRECIATION			
14100000	DEPRECIATION ACCRUED	-	125.0
14200000	AMORTIZATION ACCRUED		0.0
		TOTAL	-125.0
FIXED ASSETS			
13100000	SHOP EQUIPMENT	+	0.0
13200000	FURNITURE & FIXTURES.	+	15000.0
13300000	TRANSPORTATION EQUIP.	+	0.0
13400000	LEASHOLD EQUIPMENT	+	0.0
13500000	LAND	+	0.0
13600000	BUILDING	+	0.0
		TOTAL	15000.0
OTHER ASSETS			
15100000	PREPAID EXPENSES	+	1000.0
		TOTAL	1000.0
	_		
	T	OTAL ASSETS	49192.0

# 3.1.17.5.2 Balance Sheet Continued

Note         Note <th< th=""><th>ols <u>O</u>ptional <u>C</u>onfiguration Ma<u>n</u>ual <u>P</u>rinter</th><th></th><th></th><th></th></th<>	ols <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual <u>P</u> rinter			
Software Arts         PAGE NO:1 FRORBETL FRX (Detail Report)           SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         PAGE NO:1 FRORBETL FRX (Detail Report)           SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         ILABILITIES URRENT LIABILITIES           SURRENT LIABILITIES 20100000         ACCNTS/FAVAB.VENDORS         1 3400.00           20200000         ACCNTS/FAVAB.UPENDORS         1 0.00           20100000         SALES TAX         0.00           202100000         PANROLI TAX, F. N. T.         5 0.00           20100000         PANROLI TAX, F. N. T.         4 0.00           20100000         PANROLI TAX, S. D. I. C. A         0.00           20100000         PANROLI TAX, S. U. I. C. A         0.00           20100000         PANROLI TAX, S. U. I. C. A         0.00           20100000         PANROLI TAX, S. VI, T. C. A         0.00           2100000         PANROLI TAX, S. TATE.         4 0.00           2100000         INCIME TAX, EDERAL         4 0.00           2100000         INCIME TAX, STATE.         0.00           CONO TERM LIABILITIES         2100000         INCIME TAX, STATE.         0.00           2100000         CAPITAL INREASE         0.00           2100000         CAPITAL INREASE         0.00           <	int Preview			
Software Arts         PAGE NO:1 FRORBETL FRX (Detail Report)           SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         PAGE NO:1 FRORBETL FRX (Detail Report)           SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         ILABILITIES URRENT LIABILITIES           SURRENT LIABILITIES 20100000         ACCNTS/FAVAB.VENDORS         1 3400.00           20200000         ACCNTS/FAVAB.UPENDORS         1 0.00           20100000         SALES TAX         0.00           202100000         PANROLI TAX, F. N. T.         5 0.00           20100000         PANROLI TAX, F. N. T.         4 0.00           20100000         PANROLI TAX, S. D. I. C. A         0.00           20100000         PANROLI TAX, S. U. I. C. A         0.00           20100000         PANROLI TAX, S. U. I. C. A         0.00           20100000         PANROLI TAX, S. VI, T. C. A         0.00           2100000         PANROLI TAX, S. TATE.         4 0.00           2100000         INCIME TAX, EDERAL         4 0.00           2100000         INCIME TAX, STATE.         0.00           CONO TERM LIABILITIES         2100000         INCIME TAX, STATE.         0.00           2100000         CAPITAL INREASE         0.00           2100000         CAPITAL INREASE         0.00           <				
D3/07/2007 04:52:08 FM     PRCREIT.FW     (Detail Report)       SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)				
D3/07/2007 04:52:08 FM     PRCREIT.FW     (Detail Report)       SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)				
Display 2007 04:52:00 PM         (Detail Report)           SALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)	Software Arts		PAGE NO:1	
AALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007) LIABILITIES UURRENT LIABILITIES 20100000 ACCNTS/PAYABLE OTHERS + 3400.00 20200000 RALES TAK + 0.00 20210000 PAYROL TAX. F.W.T. + 50.00 22110000 PAYROL TAX. F.U.T.A. + 0.00 22120000 PAYROL TAX. F.U.T.A. + 0.00 22130000 PAYROL TAX. S.U.T.C.A + 0.00 22140000 PAYROL TAX. S.U.T.C.A + 0.00 22140000 PAYROL TAX. S.U.T.C.A + 0.00 22140000 PAYROL TAX. S.U.T.C.A + 0.00 22150000 PAYROL TAX. S.U.T.C.A + 0.00 22160000 PAYROL TAX. S.U.T.C.A + 0.00 22160000 PAYROL TAX. S.T.T.C.A + 0.00 22160000 PAYROL TAX. S.T.T.C.A + 0.00 22100000 PAYROL TAX. S.T.T.C.A + 0.00 2210000 PAYROL TAX. S.T.T.C.A + 0.00 201000 P	03/07/2007 04:52:08 PM			
LIABILITIES CURRENT LIABILITIES 20100000 ACCNTS/PAYABLE OTHERS + 3400.00 20200000 ACCNTS/PAYABLE OTHERS + 0.00 20100000 SALES TAX + 0.00 22110000 PAYROLL TAX. F.W.T. + 50.00 22110000 PAYROLL TAX. F.U.T.A. + 0.00 22120000 PAYROLL TAX. S.D.I.C.A + 0.00 22130000 PAYROLL TAX. S.D.I.C.A + 0.00 22140000 PAYROLL TAX. S.D.I.C.A + 0.00 22160000 PAYROLL TAX. S.U.I.C.A + 0.00 22160000 PAYROLL TAX. S.W.T.C.A + 0.00 22160000 PAYROLL TAX. S.W.T.C.A + 0.00 22160000 PAYROLL TAX. S.T.T.C.A + 0.00 22160000 PAYROLL TAX. S.T.T.C.A + 0.00 22160000 PAYROLL TAX. S.T.T.C.A + 0.00 2210000 INCOME TAX. STATE. + 0.00 CONG TERM LIABILITIES 2310000 INCOME TAX. STATE. + 0.00 CONG TERM LIABILITIES 2310000 STARTING CAPITAL + 16000.00 2410000 CAPITAL DECREASE + 0.00 2010000 CAPITAL DECREASE + 0.00 2010000 CAPITAL DECREASE - 0.00 20000 CAPITAL DECREASE - 0.00 2000			(Detail	Report)
TURRENT LIABILITIES           20100000         ACONTS/PAYAB VENDERS         +         3400.00           2020000         ACONTS/PAYABLE OTHERS         +         0.00           21100000         SALES TAX         +         0.00           22100000         PAYROLL TAX. F.N.T.         +         50.00           22120000         PAYROLL TAX. F.U.T.A.         +         0.00           22120000         PAYROLL TAX. F.U.T.A.         +         0.00           22140000         PAYROLL TAX. S.U.I.C.A         +         0.00           22140000         PAYROLL TAX.S.U.I.C.A         +         0.00           22150000         PAYROLL TAX.S.U.I.C.A         +         0.00           22160000         PAYROLL TAX.S.T.C.A.         +         0.00           22160000         PAYROLL TAX.S.T.C.A.         +         0.00           2210000         INCME TAX. FEDERAL.         +         0.00           2210000         INCME TAX. STATE.         +         0.00           2210000         INCME TAX. STATE.         +         0.00           2310000         INCME TAX. STATE.         +         0.00           2310000         CAPITAL INCREASE         +         0.00           2410	BALANCE SHEET 03/2007 (03/01/20)	07 TO 03/31/2007)		
20100000         ACCNTS/FAVABLE OTHERS         +         3400.00           20200000         ACCNTS/FAVABLE OTHERS         +         0.00           21100000         SALES TAX         +         0.00           22100000         PAYROLL TAX. F.M.T.         +         0.00           22110000         PAYROLL TAX. F.U.T.         +         0.00           22110000         PAYROLL TAX. F.U.T.A.         +         0.00           22110000         PAYROLL TAX. F.U.T.A.         +         0.00           22140000         PAYROLL TAX. S.U.T.C.A         +         0.00           22150000         PAYROLL TAX. S.U.T.C.A         +         0.00           22160000         PAYROLL TAX. S.U.T.C.A.         +         0.00           22160000         INCOME TAX. S.U.T.C.A.         +         0.00           22160000         INCOME TAX. S.TATE.         +         0.00           22310000         INCOME TAX. STATE.         +         0.00           2310000         INCOME TAX. STATE.         +         0.00           24100000         NOTES PAYABLE         +         0.00           2010000         CAPITAL INCREASE         +         0.00           20100000         CAPITAL INCREASE	LIABILITIES			
20200000         ACCNTS/PAYABLE OTHERS         +         0.00           21100000         SALES TAX         +         0.00           22100000         PAYROLL TAX, F.N.T.         +         50.00           22120000         PAYROLL TAX, F.U.T. A.         +         0.00           22120000         PAYROLL TAX, F.U.T.A.         +         0.00           22140000         PAYROLL TAX, S.D.I.C.A         +         0.00           22160000         PAYROLL TAX, S.W.T.C.A         +         0.00           22160000         PAYROLL TAX, S.W.T.C.A         +         0.00           22160000         PAYROLL TAX, S.T.T.C.A         +         0.00           22160000         INCOME TAX, FEDERAL.         +         0.00           22310000         INCOME TAX, STATE.         +         0.00           23100000         INCOME TAX, STATE.         +         0.00           24100000         NOTES PAYABLE         +         0.00           24100000         CAPITAL INCREASE         +         0.00           22100000         CAPITAL INCREASE         -         0.00           22100000         CAPITAL INCREASE         -         0.00           22100000         CAPITAL INCREASE         -	CURRENT LIABILITIES			
21100000       SALES TAX       +       0.00         22100000       PAYROLL TAX. F.N.T.       +       50.00         22120000       PAYROLL TAX. F.U.T.A.       +       0.00         22130000       PAYROLL TAX. S.U.T.A.       +       0.00         22140000       PAYROLL TAX. S.U.T.A.       +       0.00         22140000       PAYROLL TAX. S.U.T.C.A       +       0.00         22150000       PAYROLL TAX. S.U.T.C.A       +       0.00         22150000       PAYROLL TAX. S.U.T.C.A       +       0.00         22150000       PAYROLL TAX. S.U.T.C.A       +       0.00         2210000       INCOME TAX. FIERRAL.       +       0.00         22900000       INCOME TAX. STATE.       +       0.00         22100000       INCOME TAX. STATE.       +       0.00         23100000       INCOME TAX. STATE.       +       0.00         2010000       NOTES PAYABLE       +       0.00         200000       STARTING CAPITAL       +       16000.00         2010000       CAPITAL INCREASE       +       0.00         2010000       CAPITAL INCREASE       -       0.00         20100000       COMPANY TAXES       -	20100000	ACONTS/PAYAB.VENDORS	+	3400.00
22100000         PAYROLL TAX. F.M.T.         +         50.00           22110000         PAYROLL TAX. F.U.T.         +         0.00           22120000         PAYROLL TAX. F.U.T.A.         +         0.00           22130000         PAYROLL TAX. S.D.I.C.A.         +         0.00           22140000         PAYROLL TAX. S.U.I.C.A.         +         0.00           22150000         PAYROLL TAX. S.U.I.C.A.         +         0.00           22160000         PAYROLL TAX. S.U.I.C.A.         +         0.00           22160000         PAYROLL TAX. S.U.I.C.A.         +         0.00           22910000         INCOME TAX. STATE.         +         0.00           22910000         INCOME TAX. STATE.         +         0.00           22910000         INCOME TAX. STATE.         +         0.00           23100000         INCOME TAX. STATE.         +         0.00           24100000         NDTES PAYABLE         +         0.00           25100000         CAPITAL INCREASE         +         0.00           25100000         CAPITAL INCREASE         +         0.00           25100000         CAPITAL INCREASE         -         0.00           29100000         COMPANY TAXES	20200000	ACONTS/PAYABLE OTHERS	+	0.00
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22120000         PAYROLL TAX. F.U.T.A.         +         0.00           22130000         PAYROLL TAX. S. D. I. C.A         +         0.00           22140000         PAYROLL TAX. S. U. I. C.A         +         0.00           22150000         PAYROLL TAX. S. U. I. C.A         +         0.00           22150000         PAYROLL TAX. S. U. I. C.A         +         0.00           22150000         PAYROLL TAX. S. U. I. C.A         +         0.00           2290000         INCOME TAX. FEDERAL.         +         0.00           22910000         INCOME TAX. STATE.         +         0.00           2210000         INCOME TAX. STATE.         +         0.00           2210000         INCOME TAX. STATE.         +         0.00           2210000         INCOME TAX. STATE.         +         0.00           23100000         NDET SPAYABLE         +         0.00           2001TY         25100000         CAPITAL INCREASE         +         0.00           2010000         CAPITAL INCREASE         +         0.00           2710000         CAPITAL DECREASE         -         0.00           29100000         COMPANY TAXES         -         0.00           29300000         YID	22100000	PAYROLL TAX. F.W.T.	+	50.00
22130000         PAYROLL TAX, S. D. I. C. A         +         0.00           22140000         PAYROLL TAX, S. W. T. C. A         +         0.00           22160000         PAYROLL TAX, S. W. T. C. A         +         0.00           22160000         PAYROLL TAX, S. U. I. C. A         +         0.00           22160000         PAYROLL TAX, S. U. I. C. A         +         0.00           2290000         INCOME TAX, FLIERAL.         +         0.00           22910000         INCOME TAX, STATE.         +         0.00           2210000         NDTES PAYABLE         +         0.00           22100000         CAPITAL INCEASE         +         0.00           22100000         CAPITAL INCEASE         +         0.00           22100000         CAPITAL INCEASE         -         0.00           29100000         COMPANY TAXES         -         0.00           2900000         VTD RETAINED EARNINGS			+	0.00
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TOTAL LIABILITY + EQUITY 49192.00			TOTAL	4742.00
		TOTAL LIARTI.TTY +	EQUITY	49192.00

# 3.2 Implementing pc/MRP

#### 3.2.1 Implementing pc/MRP

If you are ready to implement pc/MRP, and are ready to get to work, then this section is for you. Follow the steps below to get pc/MRP up and running for your company.

#### 3.2.2 Data Entry

Data entry is critical to getting you company up and running with pc/MRP. After reading this section, you may want to step back and read Chapter 15.11, Importing Data Files. If your existing data is in a readable format for pc/MRP, then importing all that you can will save hours of needless data entry. This section assumes users already know the basics of each module. This chapter covers the sequence of implementing pc/MRP, not the exact method on how to perform each action. If you do not know how to enter data into a specific module, go to that chapter and learn. You could also study the tutorial slide shows and videos on our website, <u>www.pcmrp.com</u>. Look for the MRP101 button. If after reviewing the applicable chapters and/or online material, things are still not clear, you can always call our support line and we will be glad to help.

- 1. Register your copy of pc/MRP and obtain your Configuration Code Number by calling Software Arts at 408-226-7321.
- 2. Select Configuration, Settings and Utilities to set the size of your part number, the start of your fiscal year, your company's Name and Address, etc.

**Note:** If you have been using QuickBooks, please see Chapter 16.16 in this Manual to setup pc/MRP and import your customers, vendors, inventory, and BOMs and skip to step 6.

- 3. Enter all of your customers and vendors into pc/MRP's Address Book Module.
- 4. Enter all of your part numbers (description, part number, average and or standard cost)
- 5. Enter all of your Bills of Materials
- 6. Perform a cost roll up for average and standard costs (Section 5.1.10)
- 7. Enter all outstanding sales orders<sup>\*</sup>. Select "Order entry" for sales type. Include sales orders that have not been shipped and sales orders that have been shipped but not paid for. Do not include sales orders that have been paid for.
- 8. Enter all outstanding purchase orders<sup>\*</sup>. Include purchase orders that have not been received and purchase orders that have not been paid. Do not include purchase orders that have been paid.
- 9. Configure the accounting functions and Chart of Accounts as discussed in Section 14.3.2.
- 10. Enter your accounts receivable detail as follows:
  - a. Set the Inventory Adjustment method to "S" and Auto Accounting to "Off"
  - b. Enter all open invoices\* that have not been paid for. Do this by entering sales orders on "Account and Carry." This will automatically create an invoice. Do not enter any invoices you have been paid for. If you do, make sure you put a "Y" in the complete field of those invoices.
  - c. If you plan to implement pc/MRP's accounting module now or in the future, enter an "O" type accounting transaction for every open invoice you entered.
  - d. Run an open invoice or AR report. Make sure the total amount receivable is correct.
  - e. If you plan to implement accounting now or later, you must enter an "O" type transaction whenever you enter an invoice and an "R" type transaction whenever you receive a payment from a customer.
- 11. Enter your accounts payable detail as follows:
  - a. Set Inventory Adjustment method to "S" and Auto Accounting to "Off"
  - b. Enter all open receivers\* that have not been paid for. Do not enter any receivers you have paid for. If you do, make sure you put a "Y" in the complete field of those receivers.
  - c. If you plan to implement accounting now or later, enter an "I" type accounting transaction for each of the above open receivers.
  - d. Run an open receiver or AP report and make sure the total amount for accounts payable is correct.
  - e. If you plan to implement accounting now or at a later date, you must enter an "I" type transaction when you enter a receiver and an "E" type transaction or check run (multiple "E" type transactions) whenever you pay for a receiver.

- 12. Set up the inventory and WIP quantities and values as follows:
  - a. Use pc/MRP's Physical Inventory program to enter your inventory quantities. Enter the total of the stores quantity and WIP quantity into the stores area (area 1).
  - b. Run the Physical Inventory Variance report. Make sure the inventory value is correct.
  - c. Use the Stockroom Module "I" type issue function to issue all sales orders that are presently on the manufacturing floor to WIP. This will correctly separate out stores inventory from WIP inventory in a manner such that pc/MRP will reduce the WIP quantities correctly when they are received back from manufacturing as finished goods back into the stock room.
  - d. Set the Inventory Adjustment method back to "A".
- 13. Enter your starting balances as follows:
  - a. Make sure you have a good trial balance from the month prior to when you are going to convert over to pc/MRP's accounting program.
  - b. Select Accounting, GL Transactions, New to enter your starting balances using "A" type transactions. Be sure the transaction dates contain the date of the last day of the prior month. Transfer in all asset and liability accounts. Transfer in all expense and revenue accounts but not the YTD retained earnings amount.
  - c. The inventory dollar amount should equal the inventory value report run on the last day of the prior month.
  - d. The AP dollar amount should equal AP detail report run on the last day of the prior month.
  - e. The AR dollar amount should equal AR detail report run on the last day of the prior month.
  - f. Close (Post) the prior month and print out the Trial Balance, Balance Sheet and YTD Expense and Revenue report to make sure you balance.
  - g. Once you have balanced you are ready to begin business and entering transactions for the new month (not the prior month).
- 14. For several of the steps described above data can be imported and or programs can be written to decrease the amount of manual labor in the data entry process. To explore these options you can either read Chapter 15.11 Importing Data Files or contact Software Arts directly.

\***Note:** If keeping your own document numbers, ensure that they are six (6) alpha-numeric characters or if not, enter leading zeroes (0).

#### 3.2.3 Wedge Type Barcode Wands

pc/MRP will work out of the box with any wedge type barcode reader. A wedge type barcode reader is defined as a barcode reader that inserts itself in between the computer keyboard and the CPU unit (i.e. the keyboard plugs into the wedge barcode reader and the wedge is plugged into the computer's keyboard connector). The computer will then read any input from either the wand or the keyboard. The Unitek HT630 comes with a built-in program (Section 16.4.3 in this Manual)

#### 3.2.4 Portable Barcode Wands

Portable barcode wands can be used to take a physical inventory and then later download the part numbers and quantities from the portable barcode wand's docking station into pc/MRP's physical inventory program. The portable barcode wand must be programmed that it can download a comma delimited ASCII text file named physical.txt into the pcmrpw directory. The file must consist of part numbers and quantities separated by commas and line returns as shown below:

00000001,47.00 00000010,53.00 89000000,40.00

The Percon 2000 can be programmed to provide such an output. However, your programmers must create the program. The Unitek HT630 comes with a built-in program (Section 16.4.3)

#### 3.2.5 Downloading data from UniTech's HT630 Barcode Scanner

UniTech's HT630 (800-861-8648) comes with a program for pc/MRP built in. To take an inventory with the HT630 follow the steps listed below:

- 1. Turn on the HT630
- 2. Press and hold 'CMD'
- 3. Select Option 2 for Terminal from the Menu
- 4. Select Option 2 again for Form caching
- 5. At Item:, scan the barcoded parts or bin boxes
- 6. At Qty:, scan or enter the quantities
- 7. After you are finished, press 'Esc' to exit.
- 8. Screen clears to operating mode

To download the physical inventory count follow the steps listed below:

- 1. Set the HT630 into its cradle attached to the PC or connect the cable directly to the serial port.
- 2. Go into Start, Programs, and run PTComm3

The following screen appears:

B PtComm3	
File Transfers View Help	
Image: C:     Image: C:       Image: C:     Image: C:	Name Size Typ
	A confirmation window arrears. Just press 'OK' or change the destination location.
Transfer File Between PO	C and Portable
From: A::\FORM.D	AT >> [10]
Protocol: Multi-Point	info 35KB
ОК	Cancel

The program recognizes the Barcode reader and displays the Form data file with the inventory data in the reader. Left-click on the file name and drag it to the directory structure you wish to save the file. This can be a server directory or your computer. Remember where you saved the data file.

After you release the mouse button, this screen appears to show that the transfer went OK.

A::\					X
A::\FORM.DAT Name Portable FORM.DAT	The PT630 will of a message st Press You will also no PTComm3, dis you know ev Just press any	tating "U OK! any key ote that tl plays me verything	PLOADING /" he program ssages to went OK.	G nm, let	
Portable model: PT-630 - ? (A::\) Portable model: PT-630 - PT630 (A::\) Retrieve directory info Disk free space: 235KB AutoSeek, wake up Portable model: PT-630 - PT630 (A::\) Upload from "A::\FORM.DAT" to "C:\FORM File size: 52 Uploaded bytes: 52 Done	M.DAT"				
		COM1	NUM	<b>X</b>	

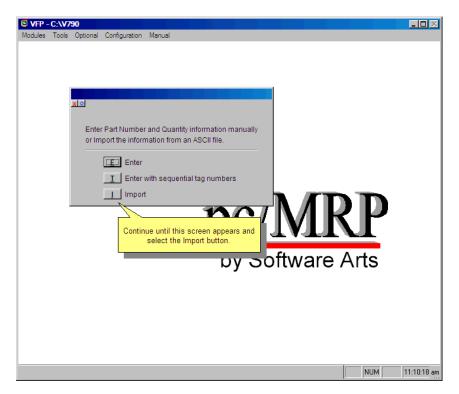
#### 3.2.6 Import the downloaded data

To import the data with the Physical Inventory or Cycle Count, go to Modules, Inventory, Physical Inventory. For this example, Choose Physical.

Select the area to receive the inventory counts.

📮 pc/MRP for Windows - Version 8.32A	- <b>-</b> ×
Modules Tools Optional Configuration Manual	
Physica       Select Physical         Physic       st Step if you have WIP)         Prive of Inventory Counts       st Step if you have WIP)         Prive of Inventory counts with the current Ir       Select the area you wish to enter counts into.         Prive of Inventory Area       Inventory counts for an Inventor report         Inventory Movement       15 Area-15         Inventory Movement       15 Area-16         Inventory Movement       18 Area-18         Physical Inventory       19 Area-19         Optade the Onhart       18 Area-18         Physical Inventory       Selecting All Areas will allow you to enter the counts for all areas         Selecting All Areas will allow you to enter the counts for all areas sull allow you to enter the counts for all areas for each part number. pc/MRP	
N	IUM /

Select "Import" to get the data from the data file you created. (If using the HT630 see the previous section.)



Next: Select the saved inventory data file. Choose to append or replace counts. Press 'OK'.

E VFP - C:\V790		_ 🗆 🗵
Modules Tools Optional Configuration Manual          1) Type in, Find, or u         a default data file national data here.         Ist         Location and Name of the ASCII file to Import         c:tform.bt         @k         @k         Qk         Qk		
	NUM	11:14:08 am

Most times, you will be replacing the previous inventory counts. A situation to "Append" would be where there are multiple storage areas for a part within a single 'STORES' area. The following screen appears (Hopefully you will not have any errors):

FP - C:\V790
ules Tools Optional Configuration Manual
xo
2 errors were detected during the Import.
<u>Qk</u> Display
If you do not get the message "The
importation has completed. No errors
were detected. you will get this message. Print out the errors and fix the
problems before continuing with more
counts and areas.

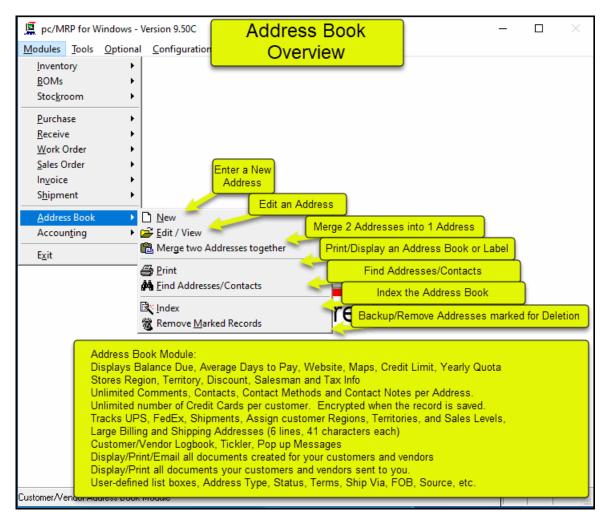
Correct any errors and re-process individually or in the next import. Now continue as described in Section 6.5 for your Physical Inventory.

#### 3.2.7 Data Review

After entering all of your data into pc/MRP, be sure to perform an exhaustive data check. Make sure your accounting is online. Be sure to make all of the necessary changes in the Utilities and Configuration Module. Run several exploded BOM reports to make sure data was entered correctly. Perhaps, do one last check to make sure everything that is considered open, is still open. Everything considered to be in WIP is still in WIP. Where applicable, make the changes in pc/MRP to be representative of what really is going on.

# 4 Address Book Module

# 4.1 Address Book Overview



The Address Book Module in pc/MRP allows you to store, edit, and track information about customers, vendors, employees, and resellers. Address Book information is automatically imported into sales orders, purchase orders, sales quotes, and purchase request for quotes. The Address Book will be your primary source for customer and vendor data. The addrbook.dbf file is partially encrypted as credit card numbers are stored in this data base file. An on-line slideshow is located here: <a href="http://www.pcmrp.com/mrp101/addressoverview.htm">http://www.pcmrp.com/mrp101/addressoverview.htm</a>

#### 4.2 Enter a New Address

#### 4.2.1 Enter a New Address

To enter a new customer or vendor address, select <u>Modules</u>, <u>Address Book</u>, and <u>New</u>. Enter the company name or last name of the person whose address you wish to enter.

#### 4.2.2 Import Address (optional)

If you have a common base address for numerous clients at the same address, check Import Address. The pop up screen will ask if you wish to import address information from another address. Answer Yes, if you have a common base address for numerous clients at one location and do not wish to keep typing in the same address repeatedly.

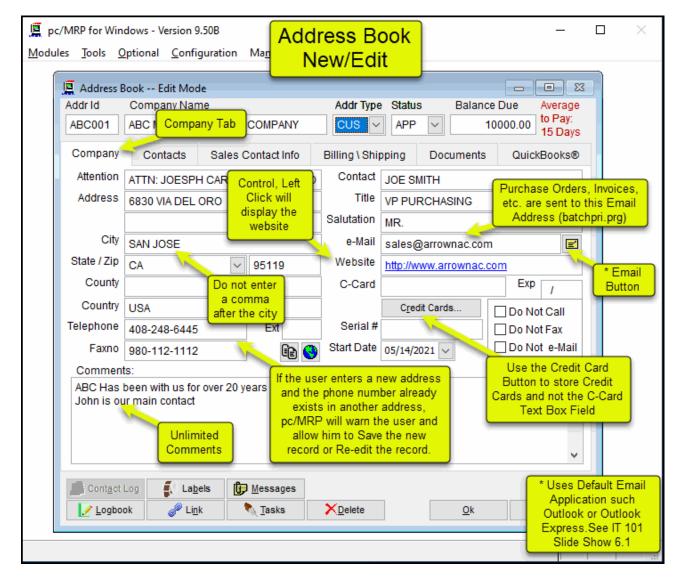
## 4.2.3 Enter Company Type and Status

pc/MRP for Aodules Tools	Address II	Configuratio		dress I New/E				- 🗆 X Balance Due or's Balance
Addr Id ABC001	Company Na ABC MANUF	ACTURING		Addr Type	APP 🗸		000.00 to Pay: 15 Days	<u> </u>
Company Attention Address City State / Zip County County	Contacts ATTN: JOES 6830 VIA DE SAN JOSE CA USA	Select A and Statu and Utiliti allows yu Type and The Addre contai custom employe vendor	ddress Type us. Settings es Option 52 ou to create Status Lists. ess Type may n CUS for er, EMP for ee, VEN for t, PRO for pect, etc.	DIS EMP RET VAR SVEN e-Mail Website C-Card	ping Du JOE SMITH VP PURCH MR. sales@arro http://www.a C <u>r</u> edit Ca	A BAD DIS MOV PRB m OTH m The Sta the ac	m atus field contain ccount. If "BAD" ion) is selected	or "PRB" (for
Telephone Faxno Comment		2	<b>B</b>	Serial # Start Date	05/14/2021	letters vend	tion will not be purchase or	ected then this ed and their populated into a
John is ou	ABC Has been with us for over 20 years John is our main contact							
Logbo	ok 🥜 L	i <u>n</u> k	<u>T</u> asks	XDelete		<u>O</u> k	<u>C</u> ancel	

The **Address ID** Code (id) will consist of the first three alpha characters of the name followed by three numeric digits. For example, Hewlett Packard would be coded HEW001. If there were already an HEW001 in the address book, pc/MRP would assign HEW002 as the address ID code. You can override the pc/MRP ID code and enter any code you wish. We do recommend the address ID code contain some significance so that it is easier to begin scrolling close to the address you are looking for.

The **Address Type** (type) and **Status** (status) are user definable fields. The contents of these fields can be modified through Option 52 in pc/MRP's settings and utilities module. The **Address Type** may contain CUS for customer, EMP for employee, VEN for vendor, PRO for prospect, etc. In the **Status** field, if "BAD" or "PRB" (for Probation) is selected, the Status label will appear in red color, as a warning. If DIS is selected then this vendor is discontinued and their information will not be populated into a purchase order. For <u>more information</u> about the Status field, see Section 4.3.

The **Balance Due** field contains the current balance for the customer. For VEN type addresses only, BALANCE OWED contains the current balance owed to the vendor. In addition the **Average Days to Pay** will appear next to the balance. This will be displayed in red if there is an unpaid invoice that is past the **Due Date** shown on the Invoice.



# 4.2.4 Enter Company Information on Company Tab Page

The Company page of the address book data entry screen allows you to enter the following: Attention, Street Address, City, Zip Code, Country, Phone Number, FAX Number, Contact, Title, Salutation, Email Address, Credit Card Number and Expiration Date, Serial Number, Start Date and unlimited Comment information.

**Note:** The allowable ASCII characters for the Addresses, Part numbers, Phone numbers, and Description fields are:

upper & lowercase alpha 65(A)-90(Z), 97(a)-122(z), numeric 0-9, and these special characters:  $../<>?;':()[]{}-=_+!@#$%^&*"$ 

The **Email** button allows integration with Microsoft Outlook to start an Email.

Hold down the Ctrl key and click on the Website address to go to the website.

Do not enter a comma after the city as this would keep the state from printing out on a check.

#### 4.2.5 Enter Credit Card Numbers for a Customer's Address

Modules Too	r Windows - Version Is <u>O</u> ptional <u>C</u> on ook Edit Mode	A	ddress New/I			- C ×
Addr Id ABC001	Company Name ABC MANUFACTU	IRING COMPANY	Addr Type	e Status	Bala	Address Book, select Module, Address Book, Edit, enter the company name and select the Credit
Company Attention Address		Sales Contact Info ARTRIGHT THE 3RD O	Billing \ Shi Contact Title Salutation	JOE SMITH	cumen	Cards Button. Please note: you must have Sales, Invoice or Accounting Create Rights or higher to access this screen. Requires pc/MRP Version 8.56 or higher
City State / Zip County County	SAN JOSE CA Display Card #	95119	e-Mail Website C-Card	MR. sales@arrow http://www.ar	rownac.	Number Expire Date and CVV
Credits Car Card # 4788-2500-0	Card Holder.	Card Number 4784 Expire Date 117	23 CVV	2 - 8291		
	2. Click on the ew Card Button Remove Card	Holder's Name John	ock this card f Smith ABC Ma VIA DEL ORC JOSE	)	e)	CAUTION: If you edit an existing credit card number, all sales, invoice and accounting transactions will be changed to that number as they are simply pointing to this file. For historical purposes it may be
Credit Card encrypted v back to the	vhen saved	4b. Import the hold information from t Address Book.	he 45	rd: EOF/1	Re	better to add new credit card numbers and remove old credit card numbers.

**Note:** The **C-Card** field on the Company tab is no longer in use in pc/MRP. Please <u>do not use this field</u> to store your customers' credit card number. This value will be seen by any user that has at least View rights to the Address Book module.

The **Credit Cards...** will be encrypted whenever the address record is saved and stored in the address book data base file. The encrypted credit card numbers will only be visible for users with higher rights. You can enter several credit cards here, and mark them as Inactive if needed. You can import the address of your choice from the Address Book.

The more information you add to the Credit Cards associated with XXX999 (customer ID) screen, the greater possibility for a lower processing rate from your credit card processor.

#### 4.2.6 Display a map for the Address

Press the Show Map Button 😌 to display a map of the address. Your computer must be connected to the internet for this to work.

# 4.2.7 Enter Unlimited Contact Information

Sector 1	IRP for Windows			ess Book		_	
Modules	<u>T</u> ools <u>O</u> ption	al <u>C</u> onfiguration	N€	ew/Edit			_
	ABC001 AB Company	ompany Name BC MANUFACTUE.	Click on the Contacts Tab AG COMPANY es Contact Info Title	CUS APP Billing \ Shipping	Documents	ue Average to Pay: 15 Days QuickBooks®	
	Alex Black (P				nited Notes per	hactive	
		Program Mana	First Name	View	act. Will display Contact Notes in	lacuve	
Unlim contac addr	ts per		Last Name Position Contact Meth Method email	Program Ma .a <del>ger</del> ods Add Contact N Value	f there are notes.	Unlimited methods pe Sworz Delete Method	
			Cell	907-029-0318	M.W.F. Only		
		Ŷ	Email App	jim_grahm57 1 Uses Default lication such utlook Express		~	
	Cont <u>a</u> ct Log	Cogbook	🥜 Li <u>n</u> k				
	💐 <u>T</u> asks	Messages	La <u>b</u> els	XDelete	<u>O</u> k	<u>C</u> ancel	
B_contde	If strange contacts appear, an older address ID was deleted. A new address contains the same address ID. To remove these legacy contacts, Mark them for deletion, Set an Admin Lockout, Select Modules, Address Book and Remove Marked Records. Version 8.95P sorts Contacts by First Name + Last Name instead of by Title + First Name + Last Name						

#### Contacts:

- **Title** (title) is 12 characters.
- First Name (firstname) is 30 characters.
- Last Name (lastname) is 30 characters.
- **Position** (position) is 40 characters.
- Inactive (inactive) is a 1 byte logical field of true/false.

#### Contact Methods:

- Method (method) is 20 characters.
- Value (value) is 50 characters.
- **Note** (note) is 50 characters.

**Contact Notes** (notes) is a memo field of unlimited length. View Contact Notes is displayed in bold if there are any notes.

To enter a contact:

- 1. Press the **New** button to enter a new contact; you can also enter one contact method at this time.
- 2. Press the **New Method** button to add more contact methods for this contact.
  - a. If you use '**Email**' as a method, an email icon will show at the end of a correctly formatted email address that is entered.
  - b. Any other method value is free form data.
  - c. A note value is free form text.
- 3. You can press the **Delete Method** button to delete the currently selected method.

To delete a contact, just press the **Delete** contact button next to the New button.

# 4.2.8 Enter a New Address, Step 5, Enter Company Contact and Tax Information

🚊 pc/Mi	P for Windows - Ve	rsion 9.50C Ad	dress Book				
Modules	<u>T</u> ools <u>O</u> ptional	Configuration Ma	New/Edit	customers. Codes auto updated b			
	Address Beak Edit Made Accounting, Tax Code Entity.						
		bany Name	Click on Sales Contact Info Tab	tatus balance or 2			
			See Configuratio	n,	1099 are for		
	Company Co	ntacts Sales Contact In	fo	Documer, is Quid	Independent Contractors		
pc/MRP wil		ROBERT BILL SALESMAN	Ta	ax ID #			
auto insert Salesman	Salesman email	ISM@ABCTIRE.COM	[	Code	Taxld C(15) Tax_Code C(4)		
Commission	Commission %	10.00 Division			T099 Form1099 L(1) TaxR N(8,4)		
Division Region	Region	California		9.3800	TaxType C(1)		
Territory	Territory	West Coast	Та	x Type None 🗸	Tax Type		
Discount Terms	Sales Level	1 Discount 0.00	Business Entity	~	8.94A or higher		
Ship Via FOB		1 0.00	Referred by				
Related Do		Customer Specific Pricing	Source	3			
Tax ID Tax Code	Terms	2% 10Days Net 30Days	Purpose		All Drop Down		
Tax %	Ship Via	~		Source could be a Trade Journal, a	user definable		
Tax Type into POs an	FOB	~	Priority	Trade Show, etc.	Configuration,		
Sales	Related Doc#	RELATED DOC/CONTRA	Interest		✓ Option 52.		
Orders where	Resale #		Concern		~		
applicable	Credit Limit	0.00	Supplier ID		Your Customer's		
<u> </u>	Yearly Quota	0.00	Require		Supplier ID Code or your company		
	Cont <u>a</u> ct Log	📝 Logbook 🔪 🥒 Li <u>n</u> k					
Configu	Configuration, Settings and Utilities, es <u>Configuration</u> , Settings and Setings and Settings and Settings and Settin						
Option 78	can be configured to	insert the Utilities Option		enabled it pc/MRP's Barcod	e		
	to sales and purchas intmaster or the Addro	e orders Credit Limit War		Module has been activated (version 8.73C and higher)			
			Record: None				

The **Salesman**, **Commission**, **Region**, and **Territory Fields** may be used to track customers and salespersons. Every time a sales order is entered for a customer, the data from these fields will be automatically entered into the sales and invoice records. If sales commissions are based on products, enter the salesman and sales commission in the Inventory Module. Note: Configuration, Settings and Utilities, Option 81 sets whether the sales commission should come from the Inventory or from the Address Book.

The Salesman Email address field contains the salesperson's email address.

If your company has divisions and/or departments, the first two digits of the **Division** Field should contain the Division Number and the second two digits should contain the department number. This would match the last 4 digits of the 8 character chart of accounts number if you are using pc/MRP's Accounting Module. (See Section 14.3.1.2 in this Manual.)

The **Sales Level** field is used to determine if a customer will be invoiced for a sales level 1, 2, 3, 4, or 5 price qty breaks listed for the item. Default is 1. If a customer is set at a higher level than there are prices for, pc/MRP will drop down to the next level that does contain prices. For details see Chapter 5.1.2.8.1 in this Manual.

The **Discount** field contains the trade discount for customers or vendors. Default is 0. For accounting purposes, <u>do not</u> include the *Terms* discount in with the *Trade* discount, as you never know if the customer will pay their bill in time to get the terms discount.

Note: If a Sales Level and a Discount both have values, both are used in the calculation.

The **Terms** field can hold default terms for this customer. If the Address Book contains Terms value for a customer, pc/MRP will automatically insert the terms in the Address Book into the sales order. If there was already a terms value in the sales order, the overwritten value will turn red and a tool-tip-message explanation appears. If users click into the field (acknowledge the value), the red color changes to black.

The **Related Document Number** field can be used to store a contract number for this address. Whenever a purchase order or sales order is entered, the related document number is transferred to the purchase or sales order's related document field.

The Resale Number field can be used to store the customer's state sales tax resale number.

The **Credit Limit** field allows a credit limit to be established for each customer. **Option 53** in the settings and utilities menu, enables or disables a warning message from popping up if the total of a new sales order plus any existing open invoices exceeds the customer's credit limit. In addition Option 53 will also allow you to establish an override password. Later when scrolling the addresses, any address whose balance exceeds their credit limit, will be displayed in red letters.

The **Yearly Quota** field stores the yearly quota goal for each customer. This field is used in an optional sales analysis report to provide % to quota for each customer.

The **Tax Code** field stores the tax id number for each account. pc/MRP's accounting module allows users to enter and maintain a Tax ID data base file containing state and county tax rates for user defined tax code entities such as CA01, CA02, OR01, etc. When an entity's tax rate changes, the user would change the tax code entity's tax rate (in the Accounting Module) and then select "Update" to update the tax rate on all addresses that have that tax entity code. At this point the tax rate will automatically be entered into the Tax % field on this page. If you do not wish to use the Tax ID data file, and still need to have a tax included on the sales order, just enter a tax percent into the Tax % field manually.

The **Tax %** field contains the sales tax percent for each customer. Whenever a person enters a sales order and selects taxable, that customer's tax rate from the address book will automatically be inserted into the sales order. The Tax % field is automatically updated when the user updates the tax rates from the Accounting module (see Tax Code above).

The **Tax Type** field can hold a default tax type for this customer. If the Address Book contains a Tax Type value for a customer, pc/MRP will automatically insert the tax type in the Address Book into the sales order. If there was already a tax type value in the sales order, the overwritten value will turn red and a tool-tip-message explanation appears.

Check the **IRS Form 1099** check box field if you expect you may need to print out a 1099 form for this customer in the future. At the end of the year, you can print out the 1099 forms and the 1099MISC by selecting Modules, Accounting and IRS Tax forms. See the Accounting Overview Chapter for further details.

The **Referred By** field can be used to store the name of the person or entity that referred this customer to you.

The **Source**, **Purpose**, **Priority**, **Interest**, and **Concern** fields are all user definable fields. These fields can be modified through **Option 52** in the settings and utilities. These entries allow pc/MRP to store additional personalized information about the entry and provide various address printouts, reports, and labels parsed to the user's specifications. **Priority** may contain a High, Low, or Medium designation. **Interests** may contain Golf, Soccer... **Concerns** could contain such things as quality, timelines, fair pricing. Inevitably, this allows Sales or any other department to keep detailed information on prospects, customers, and all entries to more efficiently meet the needs of people and their organizations.

# 4.2.9 Enter a New Address, Step 7, Enter Billing\Shipping or Remit To\Shipping Information

Modules Tools Opti Click to insert main Company Address	Billing Address
ompany	Contacts Sales Contact Info Billing \Shipping Documents QuickBooks®
	ABC MANUFACTURING COMPANY
A.H P	
	ATTN: JOECOH CARTRIGHT THE 3RD Attention ATTN: If a company (Say ABC001) has multiple 6830 VIA DEL Edit addresses if necessary. The Remit To Address will be 6830 V shipping address here and the rest
	SAN JOSE inserted into the check of the Remit To Address is empty City SAN JC etc. Then a user entering a sales order
	CA the check will use the vendor's <sup>2</sup> / <sup>Zip</sup> CA or invoice can click on the scroll button, USA main address. Puntry USA
Contact	USA shipping address. Include the city after
EMail	EMail EMail
Telephone	408-248-6445
Fax	Fav
Tax ID	Bill To Contact, Email, KD FAX, and Tax ID auto inserted into Commercial Invoices
	Note: Leave the Billing auto inserted into ouse the same address as the main address.
Cont <u>a</u> ct L	Log 📝 Logbook 🥜 Link
Contacts (c:\pcmrpw950\cr	inserted into the PO. If you have a permanent shipto address call Software Arts and create a custom PO

Whenever a sales order is created for a customer, pc/MRP will automatically insert the **Billing Address** and **Shipping Address** from this page. If you leave the Billing and Shipping Addresses blank, pc/MRP will insert the main customer address into a sales order's Billing and Shipping Addresses.

If you change the Address Type to vendor, **VEN**, then instead of a Billing Address, you can enter a **Remit to Address**. pc/MRP will use the Remit to Address when you print out a check for the vendor.

The **Billing and Shipping Address Buttons** will automatically insert the main address into the Billing and Shipping Fields.

The **Show Map Button ()** will display a map of the billing and shipping addresses.

### 4.2.10 Enter a New Address, Step 8, Documents Tab

Address Bool	k Edit Mode					1. Click on the Documents	
Addrid Co	ompany Name		Addr Typ	e Status	Balance Du	le <mark>Tab</mark>	2. Select
ABC001 AB	IC MANUFACTURI	NG COMPANY	CUS	APP ~	1205	15 Days	Document Type
Company	Contacts	Sales Contact	t Info	Billing \ Shippi	ng Do	cuments	uickBooks®
						Display: Invoice	es 🗸 🗸
Invoice Sales		np Description	Date Ship	Sale Price	Amt Paid Da	te Paid Check	# Amount Du 🗸
000001 000101		WHEEL ASSY		2000.000000			10000.00
000002 000105 000003 000106		WHEEL ASSY		2000.000000		2/3 <mark>5 a2</mark> 021 34444	187.60 2000.00
Select Document t view or prin the docume	t FedEx, DH	Green	Red indicates Open and over 60	paid after or mor and over	indicates er 60 days e or open er 60 days old.		
Contact Log	Logbook		× Delete			Ok	Cancel

Selecting the Documents Tab will display all of the documents for this company that were created by pc/MRP, as shown above. (The documents for this company that were *not* created by pc/MRP can be linked using the File Links button, see Section 16 later in this Chapter.) When entering an address for the first time, this page will be empty. However in the future this page will fill up with all pc/MRP documents (Purchase Orders, Receivers, Invoices, etc) for this customer.

On the image above, rows are color-coded. Rows in black are complete (Complete equals Y). Rows in green are open (not Complete), rows in red are open and also over 60 days from invoice date. Invoices get a yellow background if paid after 59 days or open and over 59 days.

In addition pc/MRP will track UPS, FedEx, DHL, and U.S. Postal Service packages provided the document contains a valid tracking number. The user must have Internet Explorer installed to track DHL and U.S. Postal Service packages.

# 4.2.11 Enter a New Address, Step 9, QuickBooks Tab (QuickBooks Users Only)

pc/MRP for Windows - Version 9.50C Modules Tools Optional Configuration	Address Book New/Edit	×
Quick Books Ids	Addr Type Status IG COMPANY CUS APP s Contact Info Billing \ Shipping I CT - Cust - ABC001	not contain an ess will be
Cont <u>a</u> ct Log Cont <u>a</u> ct Log Tasks		<u>Qk</u> <u>C</u> ancel

The QuickBooks Tab is only visible for users who have purchased pc/MRP's Optional QuickBooks Interface Module.

If the addresses are imported from QuickBooks, pc/MRP's Customer and Vendor ID fields will match the Customer and Vendor Name Fields in QuickBooks.

If you are entering a new address that does not exist in QuickBooks, the fields will be blank. Enter the Customer and or Vendor Name that is to go into QuickBooks. If you do not enter a name, pc/MRP will automatically fill out these fields as shown above.

If you are entering a new address that already exists in QuickBooks, make sure the QuickBooks Customer Id and/or Vendor Id matches the name field in QuickBooks (case does not matter). If they do not match, the address will be added to QuickBooks the first time it is listed as the vendor or customer on an exported receiver or invoice.

#### 4.2.12 Enter a New Address, Step 10, Print Address Labels

Dec/MRP for Window		Address Bo New/Edit			- 🗆 ×		
Addr Id ABC001 Company	ook Edit Mode Company Name ABC MANUFACTURING Contacts Sales Address Labels Mailing Address	Addr Ty	e Status	Balance Due 10000.00 uments Quick	Average to Pay: 15 Days (Books®		
C State / Z Cour Coun	ABC MANUFACTURING ATTN: JOESPH CARTR 6830 VIA DEL ORO SAN JOSE, CA 95119 USA	IGHT THE 3RD	# of Labels to be printed Start Printing on Label #		/ Call		
Telephoi Faxi Comm ABC H John is	Output Type Sheet Fed Pin Fed Align	Output To Mailing (4 x 2-7/ Stock (3-1/2 x 1!) Custom Label	5/16) NO CUSTOM		Fax e-Mail		
Save current settings as Default       Ok       Cancel       Custom labels can be created with Settings and Utilities Option 24.         Image: Contact Log         Image: Tasks       Image: Contact Log       Image: Contact Log       Image: Contact Log       Image: Contact Log         Image: Tasks       Image: Contact Log       Image: Contact Log       Image: Contact Log       Image: Contact Log							
Contacts (c:\pcmrpw950\ci	Click on the Labels Button to to print mailing labels for this address.						

The **Labels** button at the bottom of the page will allow you to create shipping labels for this address entry. The labels used here are: ADDRLBM.LBX, ADDRLBS.LBX, and ADDRLBS2.LBX

Also see Section 4.5 about printing address labels.

## 4.2.13 Enter a New Address, Step 11, Log Book

Address	Book Edit Mode 🛛 🗖 🖉						
Addr Id	Company Name Addr Type Status Balance Due Average						
ABC001	C MANUFACTURING COMPANY CUS V APP V 10000.00 to Pay: 15 Days						
Company	C:\PCMRPW950\AddrLogs\ABC001.txt - Notepad++ ×						
Attention Address	e <u>E</u> dit <u>S</u> earch <u>V</u> iew E <u>n</u> coding <u>L</u> anguage Se <u>t</u> tings <u>M</u> acro <u>R</u> un TextFX <u>P</u> lugins indow <u>?</u> X A B B B B B B A M B B Z C B B A M S B B F F F F F F F F F F F F F F F F F						
City	City addresslist.txt 🛛 🚍 ABC001.txt 🖾						
State / Zip	1 LOG BOOK FOR ACCOUNT: ABC001 ABC MANUFACTURING COMPANY						
County							
Country	Control F5 automatically inserts the						
Telephone	date and time for the log book entry.						
Faxno							
Commen ABC Has John is o							
	le Ln : 1 Col : 1 Sel : 0   0 Dos\Windows UTF-8 INS						
Click on the Log Book Button to open up the log book for this address. Settings and Utilities Option 80 can set it to open a Word or Notepad file.							
Open an external Logbook	pen an external Logbook file						

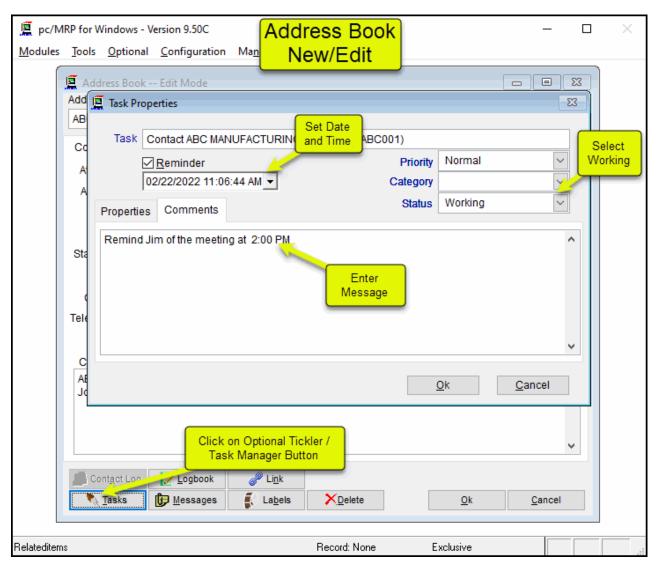
The **Logbook** button at the bottom of the page will allow you to enter a logbook for each customer and vendor to record conversations, commitments, etc. Settings and Utilities **Option 80** can set pc/MRP to open up a Notepad or Word file. Pressing the F5 key in Notepad will automatically enter the date and time into your notepad text.

# 4.2.14 Enter a New Address, Step 14, Create a tickler message for this address

Dec/MRP for Wind	dows - Version 9.50C ptional <u>C</u> onfiguration	Address Book	– 🗆	×
Add II Ta Add II Ta AB Cc At A Pro	ptional <u>C</u> onfiguration s Book Edit Mode ask Properties Task Contact ABC MAN Reminder 02/22/2022 11:06 perties Comments emind Jim of the meeting	IUFACTURIN Set Date and Time ABC001) Priority Category Status	Normal V	Select
C C AB Jd		Message	↓ <u>O</u> k <u>C</u> ancel	
Conta Tas	Tasi	on Optional Tickler / k Manager Button <sup>©</sup> Li <u>n</u> k Labels XDelete	✓ <u>O</u> k <u>C</u> ancel	
Relateditems		Record: None	Exclusive	

Press the Tickler button <sup>N</sup> to create a tickler message for this address. This option is only available to users who have purchased the Tickler/Task Manager Optional Module.

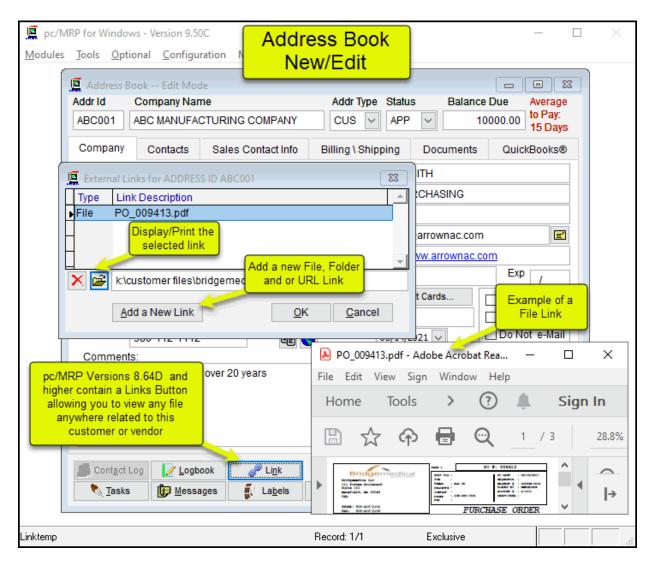
#### 4.2.15 Enter a New Address, Step 12, Create Pop Up Messages for the Address



You can create **Pop-up Messages** that will appear when a user views this address, enters a sales order, enters a purchase order, etc. For example, you can make sure a message pops up warning the user to accept "Check or Credit Card Only" when a sales order is entered for this customer. The pop-up messages are stored in PopMsg.dbf. PopMsg contains the following fields: Module, Key, Icon, Title, Message and When.

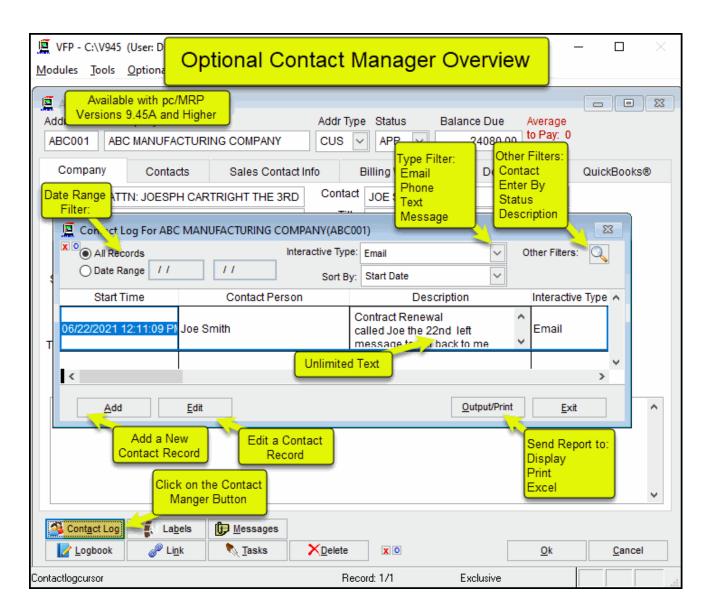
Purchase Order Entry messages will be displayed when entering a PO, entering a purchase request, or converting a PR to a PO. Sales Order Entry messages will be displayed when entering a SO or entering a SQ.

#### 4.2.16 Enter a New Address, File Links



The File Links Button allows you to link unlimited number of files, folders or URLs to your customer or vendor. You can keep any documents not created by pc/MRP, like correspondence, .PDF or .DOC files, images, AutoCAD files, POs at your fingertips without leaving the address book.

Once you are finished entering the new address, press the OK Button down at the bottom of the Address Book screen.



pc/MRP's Contact Manager Button allows you to document discussions, emails and notes regarding your customer.

#### 4.3 Edit an Address

Select Address Book, Edit/View.

Tab for a f search Save Setting store your Sor and Edit Prefe	the Indexed fast and eas <u>h for an a</u> dd is will t Order	Address Book E Search y way to ress. ok Databe Indexed Search (Fastest) Indexed Search (Fa	Order       Hide Deleted         Main Stress       Hide Deleted         Hide Flagged       (Status= BAD,PRB,DIS)         Hide Both       Dueried Search         Jueried Search       Include         Show All Addresses       Include         Show All Addresses       Include         Show All Addresses       Include         Show All Addresses       Include
Right Click	) Code	Company Name	Attention:
Color Code to	LL001	ALLIED ELECTRONICS	ATTN: JOHN DOE
display the color	BC001	ARROW ELECTRONICS	ATTN: JOESPH CARTRIGHT THE 3R
definitions.	VN001	AV 4. Select Address	
	BC001	OMPANY	ATTN: JOE SMITH
P	CAL001	CA STATE BOARD OF EQUALIZATION	ATTN: DEPT 99
	CAN001	CANA MANUFACTURING CORPORATION	ATTN: JOESPH CARTRIGHT THE 36
	DIG001	DIGI-KEY ELECTRONICS	ATTN: JOHN DOE
Ŀ	MOU001		ATTN: JOHN DOE
Select Edit or Save Settings v your prefere	r View, will store ence	View Edit Primary DBF: AddrBook.dbf Call Stack: Scroll2.prg Scroll3.prg Scroll4.scx	Ok Cancel 5. Press OK

This option allows users to scroll, edit, delete, undelete, or run queries against Address Book information.

- Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. For further details, see Chapter 15.14.2
- Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Address Book table. For further details, see Chapter 15.14.1.

In the Address Book scroll window, "flagged addresses" (i.e. addresses with "BAD", "DIS" or "PRB" in the Status field) will get a yellow background. Addresses marked for deletion get a red background. Users can exclude flagged and/or deleted addresses from being listed on the edit scroll screen. Any addresses, whose balance exceeds their credit limit, will be displayed in red letters. You can turn on/off the color coding by clicking on **Color Code**.

Almost every field in the Address Book is editable. However, users must understand the following key concept: If you have changed the Address ID Code, a pop-up screen will ask, "Change Address ID Code through out all modules, purchasing, sales, etc". Answer Yes, if you wish to change the address ID code in every module. (It is recommended that you answer Yes, otherwise you might end up with many "orphan" records.

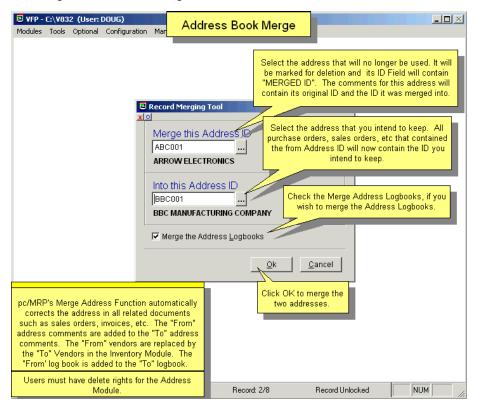
Use the **Delete** button to mark a record for deletion. Use the Undelete button to unmark the record for deletion. To permanently remove marked records from the database table, set an administrative lockout, and then select Address Book, Remove Marked Records.

Once you are finished editing the address, press the OK Button down at the bottom of the Address Book screen.

#### 4.4 Merge Addresses

#### 4.4.1 Merge Two Addresses Together

Select Address Book, Merge two Addresses together



4.4.2 From Address, After the Merge

pc/MRP for Windows - Version 8.64D If you were to edit the From Address,						
Modules Tools Optional Configuration Material you would see the following.						
Address Book Edit Mode     The documents, invoices, receivers,     etc. report to the merged address						
Addr Id Company Name Addr Type Status and no longer report to this address.						
MERGED ARROW ELECTRONICS CUS APP						
Correct Landstein Context Info Billing \ Shipping Documents QuickBooks®						
Addioco 11234587 SOUTHWEST WAIN STREET TITLE VP PURCHASING						
Salutation MR						
City MOUNTAIN VISTAS e-Mail sales@arrownac.com						
State / Zip CA V12345-1234 Website http://www.arrownac.com						
County C-Card Exp /						
Telephone A08-248-6445 Ext Seria The old address ID and the merged						
Faxno 980-112-1112						
Comments:						
Was Address ID "ABC001". Merged into Address ID "BBC001"						
The original Logbook file has been moved to the merged address.						
Labels Logbook 🔪 😰 🥒 Un-Delete This record is Ok Cancel						
General comments or notes						

#### 4.5 Address Reports and Labels

odules Too 1. Add or A Addree C Gur Cor C All Othe	ls Optional Select You ress, All Otl		2. Chec pick fro set o	<b>book Print</b> It if you want to m the Specified f Addresses. dividual Address Picke	Cenerate Address Book or Labels. Generate Address Book €. Select Sort Order
Field	Not	Operator	Value	Match Case	Sort By
Id Name Pname Address City State Zip Country Phone Extension		Equal To Contains Is Empty In List In a Range	4. Select Ac Criteria Richland WA		Primary ID Secon ID Jisplay, Print or File Send To Display 8. Select Std or Output T Custom Report Star Jard 9. Press OK
Query T	ype Inclus	ive 💌			<u>Ok</u> Cancel
	rt: Address.fr) : CusAdr*.frx	all criteria)	usive, (addresses ma or Exclusive (address east one of the criteria	es Standard Mailing a) Standard Pin Fed Custom Address	s Labels 2 across 10 down : AddrLbs2.lbx Address Labels 4"x 2-7/8": AddrLbm.lbx I Address Labels : AddrLbS.lbx Labels: CusAdr*.lbx, CustAdr*.lbx

To print out an address book or a series of labels, select Modules, Address Book, Print and the screen shown above will appear.

By example, let us say we wanted to know every customer who's City is Richland, their Current Balance is less than \$1000.00, and their Interests are Golf.

You would select the **All Addresses (Filtered)** option. Then type Richland in the City line under **Value**. Or, you could type Rich, and select **Contains** for an **Operator**. Scroll down to **Curbal** and select **Less Than**, and write \$1000.00 under **Value**. Select **Interest** and write in GOLF.

Note: For more information on running an address book query, please see Section 15.14.1.

Users can choose specific address entries after running the report by checking the **Use the individual Address Picker** box. After selecting the criteria for your query, you must decide what you wish to **Generate**. pc/MRP can generate: an **Address Book, Mailing Labels 4 X 2-7/16**, Or **Stock Labels 3-1/2 X 15/16**.

Any of the above may be **Sorted By** a **Primary** and or a **Secondary** field. The information can be sorted by: Address ID Code, Address Type, City, Concern, Country, Credit Limit, Current Balance, Date Entered, Interest, Phone, Priority, Purpose, Region, Salesman, Source, State, Tax Code, Territory, Yearly Quota, and Zip Code.

You can select where you wish the data to go to by selecting **Send Output To** and utilizing the drop down menu. pc/MRP can send output to: the Display, Print-Narrow, Print-Wide, An ASCII Text File, XLS File or a DBF File

By selecting a DBF file, users can import information onto word processing programs such as Word for creating form letters or catalogs. Specifically in Word, users can create a form letter by following these steps:

Create the desired Address Book by choosing the desired data and send it to a DBF file. Open Word and select **Tools**, **Mail Merge**. You will be prompted to complete three tasks:

1. Main Document. This is where you decide what you want to make with the merged data.

2. Data Source. This is where you select the DBF file created above.

3. Merge the data with the document. After performing these tasks, the merged information is made available through a drop down menu under the tool-bar in Word.

Through the drop down menu, double click the desired fields putting them in their desired locations and enter the desired text. Such fields as **Salutation**, **Contact Name**, and **Title** may be best utilized in these circumstances.

#### 4.6 Find Addresses/Contacts

Your search will print out or display all addresses matching the partial description you entered.

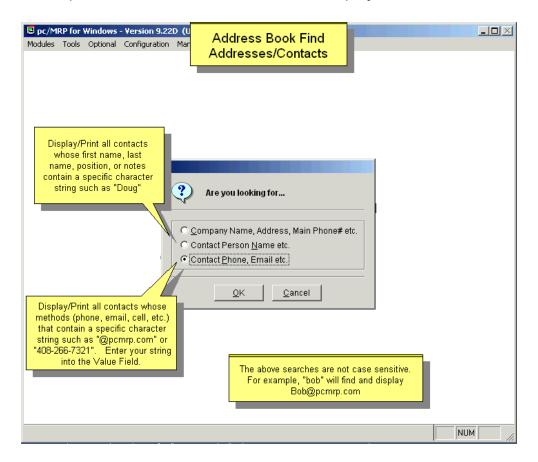
You can search for Company Information (name, address including both address lines, city, state, country, phone number or any text in the comment field).

Search in Contacts offers first name, last name, position and text in notes.

Search in Contact Details offers contact method, email, phone number. Example: Enter phone number in Value

All of these searches can be exclusive or inclusive (match all fields or any fields) and are case-insensitive.

This feature can be helpful when e.g. you only have an alternate email that is not of the company's domain email address, or a cell phone number, and need to find the main company.



Are you looking for  Company Name, Address, Main Phone# etc. Contact Person Name etc. Contact Phone, Email etc. <u>OK</u> Cancel	Enter a partial description of any of the following:
05/02/2014 09:05:56 AM Company last name first name method val	QUERY RESULTS

# 4.7 Queried Search Overview (see 15.14.1)

#### 4.8 Indexed Searches (see 15.14.2)

#### 4.9 Index (see 15.14.3)

**Note:** This process will also reindex the database tables containing the credit card information, contacts and contact details, and (for all modules) the pop-up messages.

#### 4.10 Remove Marked Records (see 15.14.4)

**Note:** This process will also remove marked records from the database tables containing the credit card information, contacts and contact details, and (for all modules) the pop-up messages.

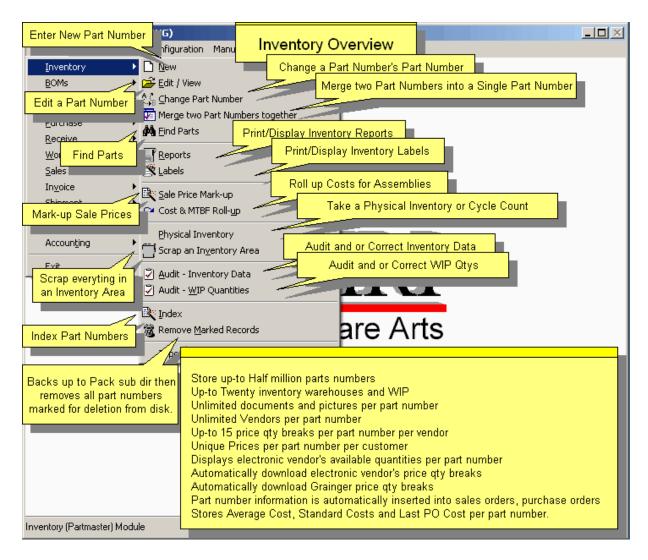
It is important to set an **administrative lockout** before removing marked records.

#### 4.11 Remove Over X Years (see 15.14.5)

# **5 Inventory Module**

# 5.1.1 Overview

The Inventory Module in pc/MRP allows you to store, edit, and track information and pictures for each part and assembly number in your inventory. Part number information is automatically imported into sales orders, purchase orders, sales quotes, and purchase requests for quotes. The inventory module will be your primary source for part and assembly information. An on-line slideshow is located here: <a href="http://www.pcmrp.com/mrp101/partoverview.htm">http://www.pcmrp.com/mrp101/partoverview.htm</a>



# **Defining your Part Number Size**

Prior to entering part numbers, the size and configuration of the part number must be defined using pc/MRP's Configuration Menu. pc/MRP's part numbers can be numeric and/or alphanumeric.

**Part number size** - pc/MRP's Configuration Menu, **Option 28**, allows the part number size to be set from 6 to 15 characters, see Section 15.1.28 in this Manual.

**Part number prefix (product code) size** - pc/MRP's Configuration Menu, **Option 29**, allows the first X characters of the part number (including any dash) to be set as a prefix. This will allow scrolling to start with the product code. See Section 15.1.29 in this Manual.

**Part number suffix size** - pc/MRP's Configuration Menu, **Options 48 and 49** allow the last X characters of the part number (including any dashes) to be set as a suffix, see Section 15.1.48 and 15.1.49 in this Manual. pc/MRP defaults to a 9-character part number size and a 2-character product code size which can be modified by the user in the Configuration Menu. Below are some additional ideas to think about if you are free to define the part number size and structure:

A straight non-encoded numeric part-numbering scheme can be employed. It is easier to maintain and expand an inventory with a non-encoded numeric part numbering system. However, with this method it is not easy to find part numbers by scrolling the inventory file.

Large part number structures slow down data input and lead to data input errors. In addition, large part number structures could make it difficult to switch over to bar coding in the future.

Alphanumeric part number structures can lead to errors due to upper and lower case letters and 0's versus O's. Companies selling to retail markets would do well to consider using a 9 or 10-digit numeric part number to match retail UPC bar coding structures. Many retailers request their products be shipped with UPC bar code labels. An 8-character part number structure could be optimal for companies that plan to use AutoCAD to generate and store their drawings.

Companies dealing with consignment parts should read Section 15.9.5 which covers part numbering schemes (methods) tailored for their needs.

Do not put your customer's or vendor's part number in the Part Number field. Create and use your own part numbers. Put the Vendor and customer part numbers in the Model Number fields. If you do not want your customers to see the vendor's model number, go to **Option 22** in 'Settings & Utilities', select Invoice, and select 'Serial Number' for 'Include on Printout'. (Users can also create a custom form to display both, or neither.)

#### Making it easy for salesmen to pick the correct assy configuration

If you would like to make it easy for a salesperson to pick the correct part or description of the assy he/she is selling, consider the following method. Let's say you sell climbing walls. All climbing walls would start with the same base part number, say "3001", and the same base description, say "Climbing Wall". A climbing wall with blue hand holds would become part number "3001-B" and its description would be Climbing Wall w Blue Hand Holds. To create a climbing wall with red hand holds, you would duplicate BOM 3001-B and save it as BOM 3001-R. You would then edit 3001-R, delete the Blue Handholds and add the red Handholds. Now when the salesperson enters a sales order he/she can enter "3001" into the part number field or "Climbing Wall" into the description and press Enter. pc/MRP will display all Climbing Walls Configurations that he can pick from. This can be extended to 3001-B-SM, 3001-R-SM, etc.

# **Un-displayed Inventory Fields**

The Inventory table contains many un-displayed fields. The following is a list of those fields and the purpose for each of those fields.

pc/MRP's physical inventory program stores the physical inventory counts in the invarea1-invarea20 and invtot fields. Once the counts have been verified and the user pressed the update button, the counts are moved from the invarea fields to the stores and areaqty fields.

The lastqty1-lastqty20, lastqtywip fields store the physical inventory quantities recorded on the date the last physical inventory was taken with pc/MRP's Physical Inventory Module. These fields will also be filled when the part number is first entered.

The above fields allow pc/MRP's inventory movement report to calculate the physical inventory at any date. However, for this to work, the following practices must be followed.

- The inventory adjustment method must be set to "A" in the configuration settings and utilities module **Option 4**.
- The last physical inventory was taken prior to the date being reported.
- The inventory adjustments were made using the stock room module's adjustment option rather than editing the quantity in the inventory module.

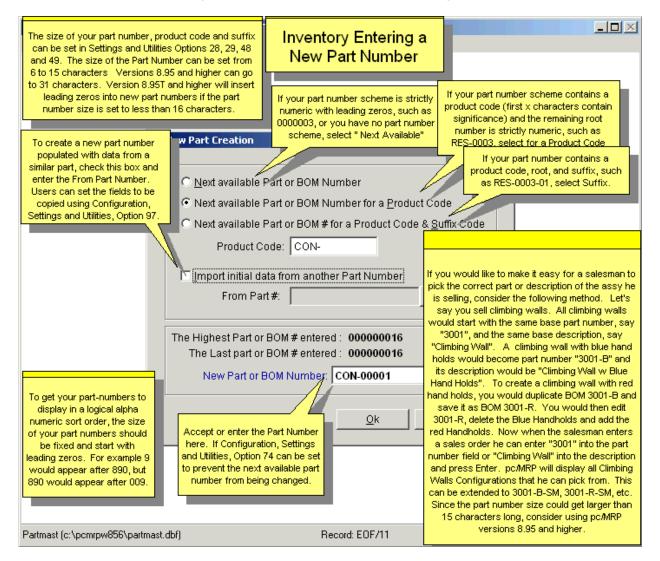
The stockroom's Issue and Receive options were used rather than Convert Parts to Assemblies.

#### 5.1.2 Enter a New Part Number

# 5.1.2.1 Enter a New Part Number, Step 1, Enter Part Number

To enter a new part, select Modules, Inventory and New.

**Note:** See Section 15.11 Importing Data Files in this Manual about importing BOMs from other applications.

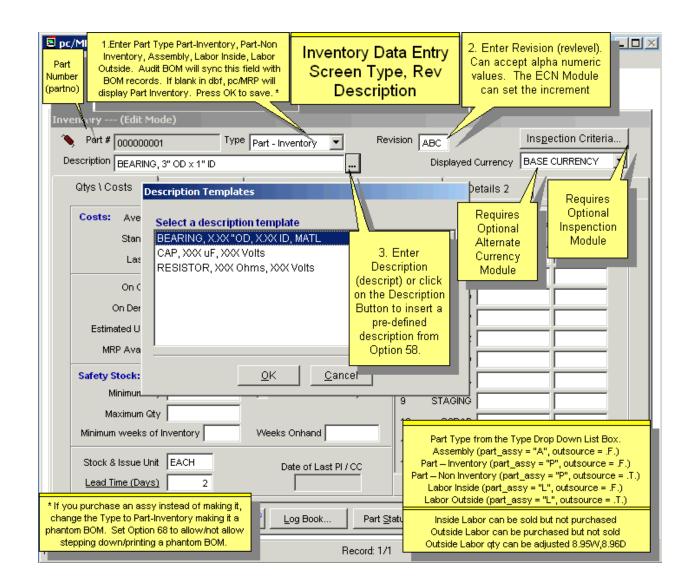


To enter a new part number, select Modules, Inventory and **New**, which brings up the screen shown above.

If you have no fixed part number scheme, select Next Available Part Number and enter the new part number.

Users can populate certain data fields from an existing, similar part's data. **Option 97** in Configuration, Settings and Utilities allows users to set the fields to be copied.

#### 5.1.2.2 Enter a New Part Number, Step 2, Enter Part Type, Revision and Description



**Note:** The above slide shows the Inventory Data Entry Screen without the Sales Analysis Module, and with or without the Infinite Bucket Module. If you own the Sales Analysis Module, see the Sales Analysis Slide Show.

The Part Number (**partno**) contains the part number and can not be changed from this screen. To change a part number you must select Inventory, Change Part Number. If using or are planning to use QuickBooks for accounting, the allowable ASCII characters for the Addresses, Part numbers, Phone numbers, and Description fields are:

Upper & lowercase alpha A(65)-Z(90), a(97)-z(122), numeric 0-9, and these special characters: , . < > ?; ': () [] { } - = \_ + ! @ # \$ % ^ & \* " /

Some characters that are known to be rejected by QuickBooks are: °  $\mathbb C$   $\mathbb R$  | 1/4 1/2 3/4  $\pm$ 

Select the correct Part **Type** from the Type drop down list box.

Assembly (part\_assy = "A", outsource = .F.) Part – Inventory (part\_assy = "P", outsource = .F.) Part – Non Inventory (part\_assy = "P", outsource = .T.) Labor Inside (part\_assy = "L", outsource = .F.) Labor Outside (part\_assy = "L", outsource = .T.) Definitions for Inventory Part Types:

Assembly: Collection of parts, assemblies, and labor. Part – Inventory: Any part or vendor assembly you invoice or include in a BOM; e.g. 'finished goods'. Part – Non-Inventory: Anything not invoiced or what is not a part of what you make and sell; e.g. Paper Towels, Office supplies, etc. Non-inventory part numbers were added to pc/MRP to compatibility with QuickBooks to be used as pc/MRP's accounting module. increase Classifying a part as non inventory only effects what type of account gets debited when vendor invoice and the receiver is posted to the general accounting gets the ledger. Also you can select to include non-inventory parts or not in your inventory value reports in the inventory module. Labor – Inside: Labor used to build/create/modify the part or assembly internally. Labor – Outside: Labor used to build/create/modify the part or assembly elsewhere (outsourced).

Facts about Labor items:

Labor – Inside	Labor – Outside
Cannot be purchased	Can be purchased
Can be sold	Cannot be sold
OH qty doesn't go down when invoiced	OH qty doesn't go up when received
Won't be issued to MFG	Won't be issued to MFG
Qty can be adjusted using Stockroom A	Qty can be adjusted using Stockroom A
transaction	transaction

If you purchase an assy instead of making it, change the Type to Part-Inventory making it a phantom BOM. pc/MRP's Infinite Bucket Module will now tell you to buy it instead of making it. If the assy is still listed in your BOM Module, set Option 68 to allow/not allow stepping down/printing a phantom BOM.

Enter the **Revision** Level (revlevel) of the part or assembly, i.e. A, B, C etc. If the part or assembly is changed such that it is still backwards compatible roll the Rev. If the part or assembly is not backwards compatible, change the part number. pc/MRP's optional ECN module will automatically increment the revision level for a part number whenever a new ECN is created for that part number.

Enter the **Description** (descript). Descriptions should be such that similar items appear together in any report sorted by description. **Option 58** allows users to create description templates that can be used when entering part descriptions. This helps create standard uniform descriptions. **Note:** If you need a longer description than 35 characters, you may use the General Info field on the Details 1 tab (Section 5.1.2.9) and print this on your forms.

The **Inspection Criteria** Button is available for companies who have purchased pc/MRP's Optional Inspection Module. It allows users to set when and where the inspection criteria will be displayed.

The **Displayed Currency** Drop-Down List Box is available for companies who have purchased pc/MRP's Optional Alternate Currency Module. It allows users to display the cost and pricing information in alternate currencies.

# 5.1.2.3 Enter a New Part Number, Step 3, Average, Standard and Last PO Costs

(cost) is updated when the part is received on a weighted average basis.		Type Assembly	Details Buttor and overhead the cost for a	Settings and II	ent, labor, To update	
All Costs are Stocking Issuing Unit Costs	Average Standard Last PO	290.000000 290.000000 730.000000 Cost Details for 000000010	2 TES	Stores		
The Standard Cost (stdcost) i manually changed by	m Qty ∋rQty	Inside Labor Cost: Overhead (10%): Outside Labor Cost Labor Total: Component Cost: Average Cost:	200.000000 20.000000 20.000000 240.000000 50.000000 290.000000	Inside Labor Cost: Overhead (10%): Outside Labor Cost: Labor Total: Component Cost: Last PO Cost:	0.000000 0.000000 0.000000 0.000000 730.000000 730.000000	
accounting. The Last PO Cost (lastpocost) is updated when a PO is created. All costs are cos per stocking un and not cost pe PO Unit.	e Unit a <u>Days</u> ) st	Inside Labor Cost: Overhead (10%): Outside Labor Cost: Labor Total: Component Cost: Standard Cost:	200.000000     20.000000     Displayed Currency     20.000000     PASE CURRENCY     PartScrCostDetail.Scx:			
Average Outside Labor Cost = (aveoutcost)           Average Total Labor Cost = (avelabcost) + (aveoutcost)           Average Total Labor Cost = (cost) - (avelabcost) - (aveoutcost)           Average Component Cost = (cost) - (avelabcost) - (aveoutcost)           Average Component Cost = (cost) - (avelabcost) - (aveoutcost)           Average Component Cost = (cost) - (avelabcost) - (aveoutcost)					aveoutcost)	

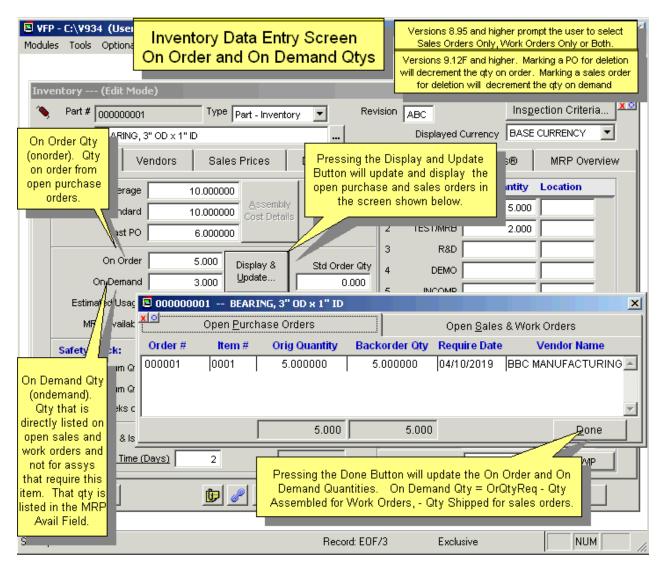
The **Average** Cost/Unit (cost) contains the average cost per unit. The value in this field is automatically recalculated every time a receiver is entered for that part number. The cost averaging formula and conditions are covered in the receiving Section of this Manual. The cost averaging defaults can be set with **Option 50** in the configuration settings and utilities module. (Calculation is shown in Section 8.1.3)

The **Standard** Cost/Unit (stdcost) field contains the list cost of the part. If your company's accounting department is using standard costs to value inventory, standard costs should only be entered and changed with their permission.

The **Last PO** Cost/Unit (lastpocost) field contains the cost of the last PO for this part. pc/MRP automatically enters the last PO cost whenever a purchase order is created for a part number. If the PO cost is changed after saving the PO, you must manually edit the part's Last PO Cost.

The **Assembly Cost Details** button will display the sum of the component, labor, and overhead costs for an assembly. This button will not respond for a component or labor part numbers. The standard cost of labor is stored in the stdlabcost field. The average cost of labor is stored in the avelabcost field. The last PO cost of labor is stored in the lpolabcost field. Please note that the 'Overhead %' calculated value is also stored with the labor cost fields in the database. So, as an example, calculating standard component cost is: stdcost – (stdlabcost + stdoutcost). **Option 60** in the configuration settings and utilities menu sets the overhead percentage.

# 5.1.2.4 Enter a New Part Number, Step 4, Inventory Data Entry Screen, Left Side



The **On Order** (onorder) field contains the quantity on order from open purchase orders. As explained above the quantity on order in inventory will be increased by the quantity ordered x the purchase ratio. When the PO is received, the quantity on order will decrease, and the quantity on hand will increase by the quantity received x the purchase ratio.

The **On Demand** (ondemand) field contains the quantity on demand from open work orders and sales orders. Whenever a work order or an "Order Entry" sales order is entered, the quantity On Demand for that specific assembly is increased. It is important to note, the quantity On Demand for the component parts that go into that assembly do not increase. Instead, whenever an MRP is generated, pc/MRP decreases the quantity available field for the component parts to satisfy the demand from the open sales and work orders. Creating an invoice for a sales order will decrease the quantity On Demand for the assembly listed in that sales order. Using the stockroom's "Receive completed assemblies from manufacturing" for a work order will decrease the quantity On Demand for the assembly listed on that work order. To see the details about the On Order and On Demand quantities, click on the **Display and Update** button. This button will recalculate the demand by subtracting the qty shipped for sales orders and the qty assembled for sales orders from the original qty required for all of the open sales and work orders.

**Note:** Your screen will look different than the two images below, if you do not have the **Sales Analysis Module** and/or the **Infinite Bucket MRP Module** activated.

I VFP - C:\V945 (User: DOU Modules <u>T</u> ools Optional	Inventory Data Entry Min Qty, Ord Mutt, Std Ord Qty are
Inventory (Edit Mode)	
Part # 000000001	Type Part - Inventory V Revision ABC Inspection Criteria
Description BEARING, 3" O	
Est Weekly Usage (usage) Vend The Sales	
Analysis Module can	10.000000 Sales order needs 3, Std Qty = 12, Inf Bkt will create a Buy Action for 12 and use the excess for remaining sales/work orders NOTE:
study the past Standard and auto fill usage or it can Last PO	10.000000         Cost Details         If both Std Order Qty and Order Multiple Qty (OrdMult) are greater than 0, Versions 8.90AM and lower uses the Std Order Qty, Versions 9.00A and higher uses the OrderMultiple.
entered On Order	2.000 Display & Std Order Qty 4 Order Multiple (ordmult), used by Inf Bkt Module AND PO (Option 42). If pc/MRP needs 17 and Order
On Demand Estimated Usage	10.000 5 Multiple = 12, Inf Bkt will create a Buy Action for 24
MRPAvailable	-8.000 01/11/2022 7 Lock Min Qty (requires Sales Analysis).
Safety Stock:	Prevents Min Qtys from being recalculated
Minimum Qty	0.000 Lock the Minimum Qty 9 STAGING
Maximum Qty	
Minimum weeks of Inve	entory Weeks Onhand Min Qty (minqty) (5 per week x 2 weeks = 10). Set by hand or auto set with Sales Analysis. Min Weeks of Inventory will
Stock & Issue U	allow entry of the desired number of weeks safety stock to be
Lead Time (Day	(Requires Sales Analysis) will be updated at the end of the first pass. The new value will be based on the inventory
Lead Time (Itime), set manually. Auto updated by entering a PO (Version 944c) see Option 65. 14 days = 2 weeks.	Date of Last Physical Inventory or Cycle Count (lastphydat) for this part number. The last physical count fields are in the partmast.dbf but not displayed
Part, Assembly or Labor	(lastqty1- lastqty20 and

The **Estimated Usage**/Week (usage) field is used by pc/MRP's Inventory Cycle Count Module to automatically determine which parts are to be reclassified as Class A, B, or C parts based on usage and unit cost. pc/MRP's optional Sales Analysis Report will fill this field in automatically based on past sales (invoice) history. Class codes are not updated at this time.

The **Std Order Qty** (ordqty) field is used by pc/MRP's Infinite Bucket module. If the infinite bucket module needs to create a buy action item for a part number, it will use the actual quantity required. However if the standard order quantity for that part number is greater than 0 and greater than the actual quantity required, it will use the Std Order Qty and use the excess qty for remaining sales and work orders. In other words pc/MRP will tell you to order exactly the quantity you need, but at least the Std Order Qty.

The **Order Multiple** qty (ordmult) field is used by pc/MRP's Infinite Bucket module. If the infinite bucket module needs to create a buy action item for a part number, it will use the actual quantity required. However if the Order Multiple quantity for that part number is greater than 0 and greater than the actual quantity required, it will use the order multiple quantity. An example of an order multiple would be eggs that can be purchased by the dozen to a carton. If the infinite bucket required a buy of 17 eggs, pc/MRP will generate a buy action item for 24 and use the excess for remaining sales and work orders.

Note: If both Std Order Qty and Order Multiple qty are greater than 0, the IB-MRP uses Order Multiple.

The **Min Qty** (minqty) field contains the quantity at which a part should be reordered. For example, if you use 2 parts per week and it takes 3 weeks to receive the part the min qty field should be set to 6. The Infinite Bucket MRP (if activated) can create buy items to fill the min qty, or make items if this is a (sub)assembly. pc/MRP's optional Sales Analysis Module has an option that will study your sales (invoices), related BOMs for a specified period, and automatically fill in this field. If the **Cat Index** field contains the word "SAV" the Sales Analysis will not update that part's min qty.

The **Max Qty** (maxqty) field contains the maximum quantity to re-order. This field is used by the Min/Max report found in pc/MRP's purchasing report module.

E VFP - C:\V934 (User: DOUG) Modules Tools Optional Configuration	Inventory Data Entry MRP Avail and MR		
Inventory (Edit Mode)			
	ype Part - Inventory 💌 Revi	ision ABC	Ins <u>p</u> ection Criteria
Description BEARING, 3" OD × 1" ID		Displayed C	Currency BASE CURRENCY
Qtys \ Costs Vendors S	Sales Prices Infinite Bucket MRP Versions 8.73D and	Time Stamp Date wa higher. The MRP A	
Costs: Average 10.00 Standard 10.00 Last PO 6.00	Assembly Available Field. If y     Cost Detail	after generating an l t a time stamp next to you hover your mous t will display the Tim the Time Stamp will t	e as well.
On Order 5.00 On Demand 3.00 Estimated Usage	Under Gty	4 DEMO 5 INCOMP	
MRP Available -106.00		6 ENGINEER 7 QC HOLD	
Safety Stock:		8 RMA	
Minimum Qty 10.00	0 ck the Minimum Qty	9 STAGING	
Maximum Qty Minimum weeks of Inventory Stock & Issue Unit EACH Lead Time (Days)	Currently this field is designed to acc + POs - future issues to sales and w future upgrades. Once the Infinite B update the each part-number's MF increase the qty available. Entering a for that part or assy. When enteri regenerate an MRP for all the parts a MRP Avail Field can only be conside	curately reflect the a vork orders) and not ucket has finished g (P Available Field. A an invoice for a part ng a sales order line ng a sales order line nod sub-assys that ered correct right aft	own as ATP (Available To Promise). vailability of component parts (Onhand assemblies. This will be enhanced in enerating an MRP, it zero out and then fiter that entering a PO for a part will or assy will decrease the qty available item, it could take up to 5 minutes to night be affected. For this reason, the er the MRP has been generated. We ally generate an MRP every night.
Part Description	not check Include Min Qtys when ger	herating an MRP with	I factored in Min Gtys if you did OR did h the Inf Bkt Module. The Infinite Bucket ting. Update to 8.95X or higher.

The **MRP Available** (avail) field contains the quantity available after allocation. This field is updated by running pc/MRP's Single or Infinite Bucket MRP program. The MRP programs will allocate parts on hand and on order and fill in the quantity available field with the quantity after allocation. For example, if a company has 1200 bearings on hand, the quantity available might be 800 after allocation. The MRP Available field will consist of the onhand quantity + PO quantity (on order) - the allocated quantity (future issues and sales) - the minimum quantity\*\*. pc/MRP dynamically adjusts the MRP Available field (new purchase orders increase the quantity available of component parts and invoices decrease the quantity available of finished assemblies). MRP Available is based upon the stores areas checked when generating the MRP Action items.

\*\*The minimum quantity will not be factored in if you were running the IB-MRP and did not include demand for Minimum Quantities.

The MRP Available Field is only correct right after generating an MRP. This is why the **MRP Date** Time Stamp was added next to the MRP Available Field. If you place your cursor over the Date Stamp it will display the Time as well. The date stamp is displayed in green if the MRP was last generated on the current day. It will be displayed in red and bold if the MRP is older than that.

Once the Infinite Bucket has finished generating an MRP, it will update each part's and assembly's MRP Available field. The MRP Available field will contain the qty available after allocation (onhand+POs-issues and sales action items-min qty). After that entering a PO for a part will increase the qty available. Entering an invoice for a part or assy will decrease the qty available for that part or assy. When entering a sales order line item, it could take up to 5 minutes to regenerate an MRP for all the parts and sub-assys that might be affected. For this reason, the MRP Avail Field can only be considered correct right after the MRP has been generated. We recommend using pc/MRP's Scheduler to automatically generate an MRP every night.

The **Stock and Issue Unit** (unit) field contains the unit of measure (each, ft, lb, hrs, etc) that the part is issued to manufacturing and sold in.

The **Lead Time** (Itime) field is used by the Infinite Bucket optional module. This tracks lead-time by days. For component parts, this represents the delivery time needed to receive the part for the vendor. For assemblies, it represents the build time for the assembly when building the assembly from sub-assemblies already built. The default lead times for parts and assemblies can be set in Configuration, Settings, and Utilities, **Option 65**. If pc/MRP's Infinite Bucket Module finds a 0 in the lead-time it will use the default lead times found in Option 65 (unless the Allow 0 lead times checkbox is checked). If it takes two weeks to build an assembly or order a part, enter 14 days, not 10 days. If any date starts or ends on a weekend, pc/MRP's Infinite Bucket MRP adjusts that date back to Friday. If Option 65 Update Lead Times Checkbox is checked, entering a PO for an item will update the parts lead time (Date Required - Order Date) provided the Order Date > Current Date and that it is the first line item on for that PO for that part number. This option requires pc/MRP Version 9.45 and higher.

The Date of **Last PI/CC** (lastphydat) field stores the date the last time a physical inventory or full cycle count was taken with pc/MRP's Physical Inventory Module. The lastphydat field will also be filled when the part number is first entered. When importing parts into pc/MRP, it is a good idea to populate this fields with the current date, as the Inventory Movement Report is more informative if the last PI date is filled out.

# 5.1.2.5 Enter a New Part Number, Step 5, Enter Stores Quantities and Locations

pc/MRP for Windows - Ve Modules Tools Optional Co		ntory Data Entry /IP and Stores		Settings and Utili	setting Configuration, ties, Option 62 to not the Quantity Fields.
Inventory (Edit Mode) Part # 000000001 Description BEARING, 3" C Qtys \ Costs	r	ventor areas and 1 (onhand, a area20qty	WIP area irea2qty -	Location Fiel (locate,locate locate20). R5 would be Row 5	e2 - 811a 5182 · ▼
Costs: Average Standard Last PO	40.000000	embly Details	AN 1 Stores 2 TEST/MRE		
On Order On Demand Estimated Usage	5.000 1.000 Display & Update		3 R&L 4 DEMC 5 INCOMP	·	
MRP Available Safety Stock:	-26.000 07/16/201		6 ENGINEEF 7 QC HOLE 8 RM4		
Minimum Qty Maximum Qty Minimum weeks of Inve		k the Minimum Qty	9 STAGINO 10 SCRAF 11 RESERVED	location f warehou	u have more than 1 or a partnumber in a ise. List the primary lace a note on the Bin g the other locations.
Stock & Issue Unit EA	ACH D	Date of Last PI/CC	12 Area-12 VMP	2	Audit WIP
The quantity of a part number is increased whenever it is received and decreased when is issued to mfg or invoiced.	changed with Option	n 34 in the ings and	(wipqty)	Offers to update the based on open sto cords. Stockroom r heg qtys are caused with neg compone	ecords with H by BOMs

The warehouse **Area Names** such as TEST/MRB, ENGINEER, and R&D can be changed using **Option 34** in the Configuration, Settings and Utilities module. It is important to note that these are areas that store parts & assemblies, not manufacturing areas. pc/MRP has one area representing manufacturing and that area is WIP (work in progress). To move and track work orders and sales orders through the factory floor from work station to work station see the Optional Routing Module in Chapter 16.14 in this Manual.

Enter the initial **Stores Quantities** in the warehouse areas (onhand, area2qty-area20qty). After the initial entry, it is advisable to use **Option 62** in the configuration settings and utilities to prevent people from editing the quantities. Instead they should use the Stockroom's "Adjusting Quantities" Option to adjust quantities as this leaves a record of the adjustment. The quantity of a part number is automatically increased whenever the receiving module receives it. The quantity of a part number is automatically decreased when they are "Issued to Manufacturing" or "Invoiced". Much of this depends on how you set your inventory adjustment method (see **Option 4** in the Configuration, Settings and Utilities menu).

Do not enter **WIP Quantities** (wipqty), instead use the Stockroom's "I-type" (Issue Parts to Manufacturing) or "L-type" (Lower Level Issue) transactions as pc/MRP will only remove parts from WIP when a sales or work order is "Received back from manufacturing as completed assemblies" ("R-type" transaction).

The part's **Location** fields (locate, locate2-locate20) can contain any six-digit code you care to come up with to aid in locating parts. E.g. R5B2 could be Row 5 Bin 2.

VFP - C:\V863 (User: DOUG) Modules Tools Optional Configurati	Inventory Dat Audit	ta Entry S t WIP	Screen		
Inventory (Edit Mode)					
🍾 Part # 000000001	Type Part - Inventory	🔽 🕺 R	evision ABC		Ins <u>p</u> ection Criteria
Description BEARING, 3" OD × 1" ID			Displ	ayed Currency	BASE CURRENCY
Qtvs \ Costs Vendore	Colae Prinad	-   net	sile 1	Dataile 2	,QuickBooks®
Co XO These are the WIP D	etails for compone	nt: 000000	001		Location
Stk Tran # Work Order #		Issued Qty	Returned Qty		
• 000006 000001-0001	05/31/2012	10.000	0.000	) 10.000	
	enerate	Tota	I Qty in WIP 10.0000	Update	sing the Update Button change the WIP Qty m 73 to 10 based on en stockroom records
Stock & Issue Unit EACH Lead Time (Days) 14	Date of Las	st PI / CC	12 Area- W		DOO Audit WJP
Delete	📴 🥔 Log Boo	k Part	to m	lays and or Co atch Stockroo /ersion 8.61 or	m Records.
A list of items in WIP for the specified compo	onent		_		

The **Audit WIP** button displays and or corrects WIP to match Stockroom Records. Pressing the **Update** button will change the WIP quantity based on open Stockroom records.

# 5.1.2.6 Enter a New Part Number, Step 6, Enter PO Ratio, PO Unit, Buyer

pc/MRP for Windows - Versio Modules Tools Optional Configu Modules Tools Optional Configu	<sub>iration M</sub> Invent	ory Data Entry Screen ndors Tab PO Unit		PO Ratio = 1,	
DOCODOCOCO Issue Unit / PO Unit (poratio) Gryps 1 usts Ven Misc: PO Ratio	k on the Vendors Tater vendor informati dors Unit of measure on the PO (pr Po Unit Buyer EA KIM	on. Action Item reports allo print out all buy action ite printed by buyer or for a specif	e Option 25. Bucket W you to ems sorted	re Stocking / g Qtys. If the tio # 1, Qtys rchasing Unit Qtys	All costs are Stocking / Issuing Unit Costs (not Purchasing Unit Costs
Vendors ARROW ELECTRONICS DIGI-KEY ELECTRONICS MOUSER ELETRONICS Selected Vendor's Informa Address ID DIG001 Phone 980-112-11* Representative	4.7 lbs/ft Vendors price per lb PO Ratio = Issuing U Stock Unit Price = \$0	FT	Vinc or's Carr sncy PO Unit Oty 1 10 0 0 0 0 0 0	BASE CURRENT Stock Unit F 11.000 6.000 0.000 0.000 0.000	Price 000 000 000 000 000
Vendor's Part # 555050-1 Description Lead Time (Days) 2 Each vendor can have their own lead is recommended when generation vendor has a specific lead time, the vendor's lead time instead of the part in the Qty\Cost Page (Versions	d time. If the vendor g an MRP and the e Inf Bkt will use the rt's generic lead time	Simple PO Ratio example: Stock Issuing Unit = FT PO Unit = Roll Vendors price per roll = \$20.00/F The PO Ratio = Issuing Unit/PO U Stock Issuing Unit Price = \$20.00 Similar to the Ave Cost/ Std Cost If the PO qty is for 2: pc/MRP will insert 2 Rolls and \$2 pc/MRP's Receiver will be for 2 F but it will increase the onhand qt	nit = 100 FT/Roll = 10 /Roll / 100 FT/Roll = / Last PO Cost 0.00 per Roll into the Rolls at \$20.00 per R	\$0.20/FT 9 PO oll	the \$0.20 cost

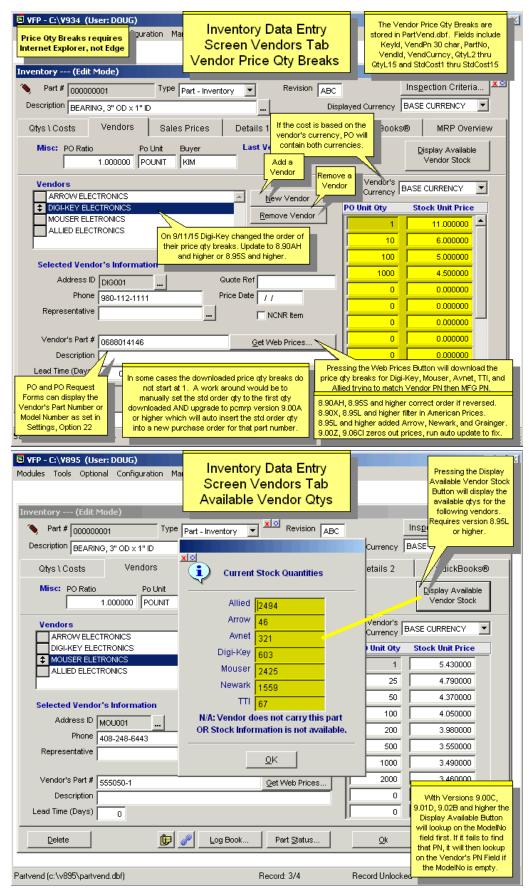
Vendor Lead Time: See the screen shot above.

The **PO Ratio** (poratio) field is the ratio of the number of issued units required for one purchase unit. For example, if you issue in feet and purchase in yards, the PO Ratio would equal 3. Whenever a part number is created or data is imported into the partmast.dbf file, pc/MRP automatically inserts 1 into this field. We recommend keeping it simple. Leave the PO Ratio at 1 and enter the same unit of measure into the Stock & Issue Unit and PO Unit fields.

The **PO Unit** (pounit) field is the purchase unit of measurement. Referring to the example above this would be one yard. When entering a PO, enter the quantity of purchase units you require. pc/MRP will insert the purchase unit and multiply the vendor's unit cost by the purchase ratio. The quantity on order in inventory will be increased by the quantity ordered times the purchase ratio. When the PO is received, the quantity on hand will increase by the quantity received times the purchase ratio.

The **Buyer** (buyer) field contains the name of the buyer responsible for purchasing this part. pc/MRP's Infinite Bucket MRP action item reports allows you to print out all buy action items by buyer or for a specified buyer. **Option 25** allows you to select whether a PO's Placed by field should hold the Buyer's name or the current user's name.

## 5.1.2.7 Enter a New Part Number, Step 7, Enter Vendors and Price/Quantity Breaks



Click on **New Vendor** to scroll the Address Book and select any number of vendors for this part. The address ID and phone number will be entered automatically. You can list the vendors in order of preference using the <sup>↑</sup> button left to the vendor's name. You can enter up to 15 price/quantity breaks for each vendor. (QtyL2-QtyL15, StdCost1-StdCost15 in the Partvend database table.) When you place an order, you will see the list of the related vendors in the order of preference, but pc/MRP will highlight the vendor with the best price for that quantity.

**Get Web Prices:** pc/MRP will download the price/qty breaks for Digi-Key, Mouser, Avnet, Newark, TTI, Arrow, Allied and Grainger from the Internet, trying to match Vendor PN then MFG PN. You can save the results into the price/quantity chart above. For Grainger, if there is a minimum order quantity, pc/MRP will insert that quantity into the part's "Order Multiple" field. Also see Section 5.1.2.9. **Note:** If you are using Windows Vista and IE7 or higher, the **User Account Control** must be OFF. Click on the Start button, Control Panel, User Accounts, and turn the control OFF. You will have to also click OK in the warning window that pops up.

Note: You can reach the same feature from the Details 1 tab, see Section 5.1.2.9.

In some cases the downloaded price qty breaks do not start at 1. A work around would be to manually set the std order qty to the first qty downloaded. This will auto insert the std order qty into a new purchase order for that part number (version **9.00** and above).

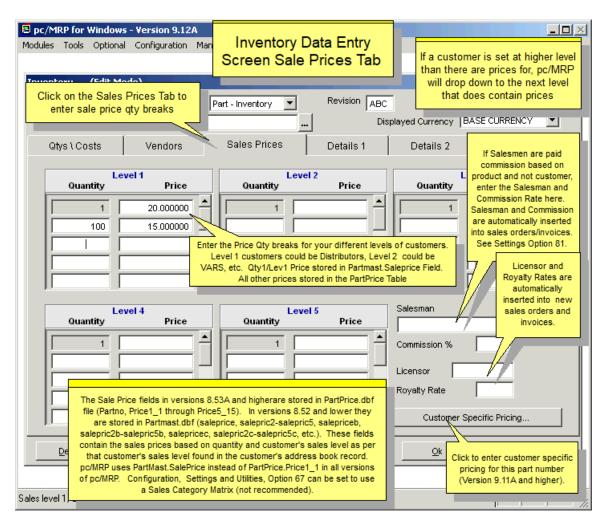
**Display Available Stock Quantities:** pc/MRP will download and display (not save) the current available stock quantities for the previously listed vendors (except for Grainger). The program does the look-up based on the model number, or if that is empty, the current vendor's part number.

#### For companies that own the Optional Alternate Currency Module:

As the currency exchange rate fluctuates, the two companies need to agree which will pay/receive a fix amount, and which will pay/receive a varied amount. If this vendor is to always get his set currency price, the **Vendor's Currency** should be set to his currency. If you are always going to pay your set currency price, this should be set to Base Currency. The vendor prices should be entered in the selected currency.

If you change a currency rate in the alternate currency module, pc/MRP will change the vendor cost for every vendor whose base currency is set at that currency. pc/MRP will calculate the new cost by using the following formula: OLD COST\*(OLD RATE/NEW RATE). If you display the vendor costs in the base currency, pc/MRP displays the base currency as stored in those fields. If you select to display the cost in another currency, the standard costs for each vendor will be displayed as a multiple of the standard cost for that vendor and the selected currency.

# 5.1.2.8 Enter a New Part Number, Step 8, Enter Selling Prices



**Option 67** in pc/MRP's Configuration Settings and Utilities Menu, allow users to set the method pc/MRP will use to determine the selling prices for sales orders and invoices.

**Sales Level and Quantity Price Method (first option)**. With this method, selecting the Sale Prices Tab will display the sale price screen shown above.

The **Sale Price** fields are stored in the PartPrice.dbf file (Partno, Price1\_1 through Price5\_15). Price 1\_1 is also stored in the Partmast field Saleprice. (If importing the prices, Price1\_1 must be imported into both tables.) These fields contain the sales prices based on quantity and customer's sales level as per that customer's sales level found in the customer's address book record. If a customer is set at a higher level than there are prices for, pc/MRP will drop down to the next level that does contain prices.

The **Salesman** (salesman) and Sales **Commission %** (commiss), fields are automatically inserted into sales orders, invoices, and accounting transactions to allow pc/MRP to track and report on sales commissions. A sales commission of 5.00 would represent 5%. Note: Configuration, Settings and Utilities, **Option 81** sets whether the sales commission should come from the Inventory or from the Address Book.

The **Licensor** (licensor) field is automatically inserted into sales orders and contains the name of the company that may have licensed this part number for resale.

The **Royalty Rate** (royalrate) field contains the royalty rate charged for this part number.

**Enter Selling Prices (Second Option).** We do not recommend using this pricing method, as it is not simple and straightforward. We recommend using the Customer Specific Method and not using this method. With this method, selecting the Sale Prices Tab will display the following page of the inventory data entry screen.

Each part can be assigned a category (A-9). The part in the above screen has been assigned as a Sale Price Category 'B' part. The 'Sale Price Category' (pricekey), is like a product grouping such as 'Wheel Assemblies', 'Motherboards', or 'Cabinets'. A part can only reference one 'Sale Price Category'. Each part can be assigned up to 25 different prices (A-Y). In the above example, customers whose key assigns them level D pricing for B type parts would pay \$7.00 per part.

Inventor	y (Edit Mode)							
Part # 000000013 Type Part					Revision	-		
Descrip	Description BOLTS							
Quanti	tes \ Costs 📔 V	endors	Sales Prices	Manufac	turers \ Models \ A	lt Parts	Miscelleneous	
Salesman Licensor Commission % 0.00 Royalty Rate 0.00								
		Sa	lle Price Catagory	г. 🖪 💽	·			
Level	Price	Level	Price	Level	Price	Level	Price	
A	5.0000	н	0.5000	0	0.0000	v	0.0000	
В	1000.0000	1	0.2500	Р [	0.0000	w	0.0000	
с	5.0000	J	0.0000	Q	0.0000	x	0.0000	
D	7.0000	к	0.0000	R	0.0000	Y	0.	
E	8.0000	L	0.0000	s	0.0000			
F	9.0000	м	0.0000	т	0.0000			
G	9.0000	N	0.0000	υj	0.0000			
	 DeleteLog Book VVhere Used OkOkOancel							

By selecting the Sales Contact Info tab in any address entry and pressing the Sales Level button within that tab, the price key screen will pop up as shown below.

Address Book Ed	lit Mode
Addrild Comp	pany Name Addr Type Status Balance
SMI001 SMITH	HBIKE ASSESORIES CUS 🔽 💽 0.00
Company	Sales Contact Info Billing \ Shipping Invoices Receivers
Salesman	Taxi ID #
Salesman email	Tax Code IRS Form 1099
Commission %	0.00 Tax % 0.000
Region	
Territory	Customer Sale Price Categories
Sale Levels	
Terms	ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789
Related Doc #	BGCC XYV JS OP M
Resale #	
Credit Limit	Valid Price levels Ok Cancel
Yearly Quota	are: "A" thru "Y"
La <u>b</u> els	Logbook Delete Ok Cancel

In this case, the customer shown would pay the level G price for category B type parts. As such, his price would be \$9.00. If a sales price level is left blank like E or F in the address entry or if the sales price category is left bank in inventory the sales price will default to sales price level A.

# **Customer Specific Pricing (Third Option)**

Click on the Customer Specific Pricing button in the bottom right corner of the Sales Prices page.

pc/MRP for Windows - Version 9.127 Modules Tools Optional Configuration Inventory (Edit Mode)			PartAddr:	CustPrice.dbf .cdx
Part # 000000001 Type Part - Inventory				
Customer Specific Pricing	in part (	of the Custome	r ID	
Part Number: 000000001 here a	ind pc/N	<b>/IRP will locate</b>	the	
Description: BEARING, 3" OD x 1" ID	stomer i	n the list below	(custph)	QuickBooks®
Search for Customer ID		istomer PN		custdesc)
Customer ID Customer Name				
BBC001 BBC MANUFACTURING COMPANY	┦┢	Break Qty	Customer Price	
CAN001 CANA MANUFACTURING CORPORATION	+	1	16.000000	
(addrid)	+ C	100	14.000000	
	+ C	0	0.000000	
	† [_	0	0.000060	
	(atv2	- qqty15) 0	0.0000	(price1 - price15)
		0	0.00000	
		0	0.000000	
	⊣ L	0	0.000000	
Click here to	+ ∟	0	0.000000	
add a new	+ L	0	0.000000	
customer to	† L	0	0.000000	
the above list	† L	0	0.000000	
	t L	0	0.000000	ic Pricing
	<b>_</b>	0	0.000000	
	▶ I	0		ustomer specific
Specify new Break Qty & Prives manually Add Customer Remove Customer	•	<u>o</u> k		nis part number 1A and higher).
Sales level 1, Unit Price				

First select Add Customer, and scroll for the customer. Then fill out the Break Qtys and Customer Prices.

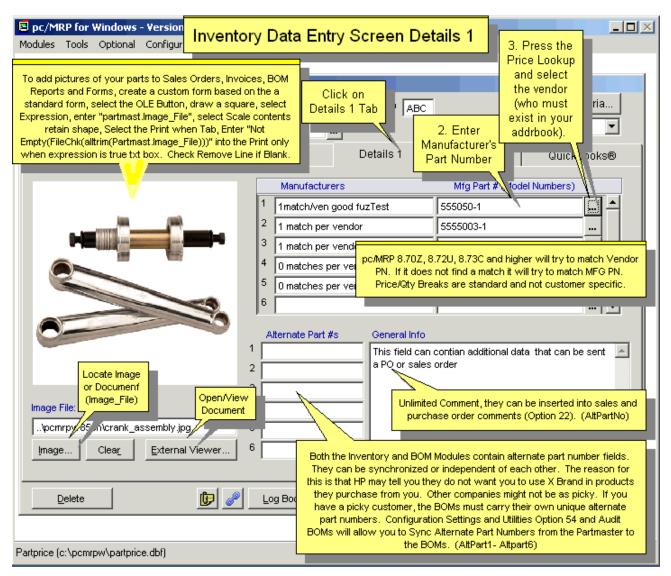
When you add a second customer select any of the following choices: "Specify new Break Qty and Prices manually", "Copy Qty values from the current record into new records", "Copy Qty & Price values from the current record into new records" to speed up your work.

Later when you need to look up or edit the Customer Specific Prices, start typing the customer ID into the search box "Search for Customer ID". pc/MRP will automatically highlight the customer you are looking for.

The Customer PN and Customer Description fields are for your reference only.

The user must have Inventory Delete Rights in the Password Module to Remove the Customer.

# 5.1.2.9. Enter a New Part Number, Step 9, Details 1 Tab



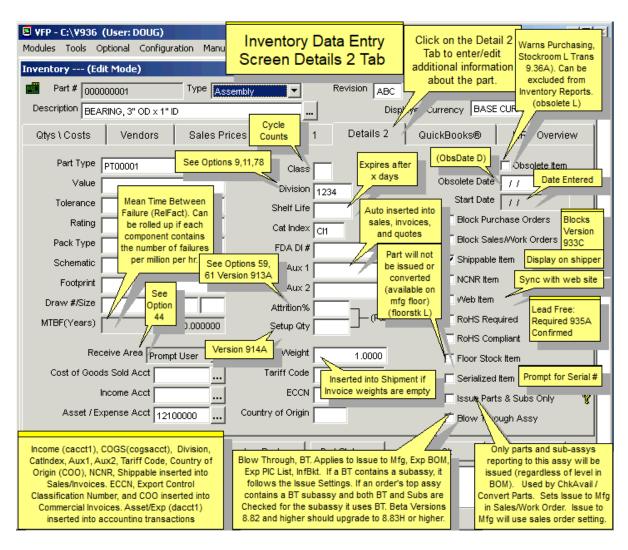
Enter **Manufacturers** (manufacter, mfg2-mfg9) and their respective **Model Numbers** (modelno, modelno2modelno9). The **Alternate Part #s** (altpart1 - altpart6) allow users to store up to six alternate part numbers that can be used in place of this part number. These fields are for your reference only. **Option 54** in pc/MRP's configuration settings and utilities menu allows users to update the alternate part numbers in the BOM file with the alternate part numbers in inventory. Also see Section 15.9.8.

The **Image File** (image\_file) field is used to store and display one picture for each part. GIF and JPG files are displayed directly within pc/MRP, while all other file types, (BMP, PDF, AVI, DOC...) are viewed by clicking the External Viewer button. We recommend that all files be deposited into a sub-directory of pc/MRP's main directory named *BMP*. This will eliminate difficulties that may occur when trying to view the image from workstations that have a different drive designation for the server. If you wish to view PDF files, you must install Adobe Acrobat Reader. Adobe Acrobat Reader can be downloaded from

http://www.adobe.com/products/acrobat/readstep.html. A URL can be entered into this field. The URL must however contain the full URL. (http://www.xxxxx.xxx) **Note:** To learn how to easily *link any number of images* (and other files, folders and URLs) to each part, see File Links later in this Chapter.

The **General Info** (altpartno) field is sort of a wild card field. It can be used to store information such as purchasing specifications, additional description, alternate part numbers, etc. **Option 22** in pc/MRP's configuration settings and utilities menu can be set to automatically import the contents of this field into sales and purchase order comments field. Computer manufacturers and retailers who wish to increase the length of their descriptions by including "30 gig hard drive, 128 Megs RAM", etc. can use this option.

# 5.1.2.10. Enter a New Part Number, Step 10, Details 2 Tab



The following fields, **Part Type**, **Value**, **Tolerance**, **Rating**, **Package Type**, **Schematic** and **Footprint** were included to match similar fields in ORCAD.

The **Draw #/Size** fields contain the part number's drawing number (drawingno) and drawing size (drawsize).

The **MTBF** ((1/sum of the part reliability factors in the assembly)\*(1,000,000/8769)) field (for assemblies only) contains the resulting mean time between failure for that assembly in years. The MTBF field for assemblies is read only. It can be automatically calculated and populated by entering all of the reliability factors for parts and then running the Cost and MTBF Roll Up option on the inventory menu.

The **Debit Account** (dacct1) field is automatically inserted into purchase orders and receivers. If a receiver's debit account field contains an 8-character chart of accounts number, pc/MRP will debit that account when posting the accounts payable voucher (receiver). If **Option 11** (multi-div) is set off or the division field is empty, pc/MRP will debit the default chart of account (12100000 inventory for Perpetual or 41100000 purchases for Periodic) found in Configuration, Settings & Utilities, **Option 9**'s account template file.

The **Credit Account** (cacct1) field is automatically inserted into sales orders and invoices. If an invoice credit account field contains an 8-character chart of accounts number, pc/MRP will credit that account when posting the accounts receivable voucher (invoice). If **Option 11** (multi-div) is set off or the division field is empty, pc/MRP will credit the default chart of account (30100000 business income) found in Configuration, Settings & Utilities, **Option 9**'s account template file.

The **Class** field (class) is used by pc/MRP's Inventory Cycle Count Module. All Class A parts are counted every 30 days. All Class B parts are counted every 90 days. All Class C parts are counted every 180 days. This field must be filled in with an A, B, or C. See the Cycle Count Module Section in this Manual for additional details on automatically filling this field. Settings & Utilities, **Option 64** sets the default class for new parts. Therefore, to <u>not</u> include labor and non-inventory parts, you must remove the default Class code at the time of creating the labor or non-inventory part.

The **Division** (division) field is automatically inserted into sales orders and purchase orders. pc/MRP uses this field to determine what division or department chart of accounts to credit or debit for sales orders and purchase orders.

The **Shelf Life** (shelflife) field contains the shelf life in days for that part number. If you have activated pc/MRP's optional serial/lot number module, receive completed assemblies back from manufacturing, and select to enter serial/lot numbers, pc/MRP will calculate and insert the expiration date into that serial/lot number record based on the current date and the shelf life.

The **Cat Index** (catindex) field is utilized in the optional Sales Analysis module. This allows the end-user to leave min quantities for part numbers or assemblies unchanged regardless of usage figures by entering "SAV" into that part or assembly's catindex field.

The **Aux 1** and **Aux 2** fields are character fields (max 30) that can be used as needed. You can create customs forms/reports that will display these values with an appropriate label.

pc/MRP uses the **Weight** (weight) field to insert the total weight of a shippable item into a UPS or Bill of Lading shipping document (labor for example is not a shippable item), but only if the invoice weight is empty.

The fields **ECCN** (Export Control Classification Number) and **COO** (Country of Origin) will be inserted into Commercial Invoices.

To obsolete a part, check the **Obsolete Item** checkbox (Obsolete L). **Obsolete Date** (obsdate D) is automatically set to the current date (you may change this). pc/MRP will display a warning if you try to purchase a part that is marked as obsolete and its obsolete date is earlier than the current date. The part will also be highlighted in yellow in the Inventory scroll window.

The **Start Date** (startdate) references to the date the part was first entered into the Part Master.

Parts checked as a **Shippable Item** (shippable) will automatically be included on a BOL Shipment Document.

Checking as **Web Item** (webitem) will allow you to mark a part number that is to be listed on your web site.

Check the **RoHS Compliant** Checkbox if part is RoHS Compliant (lead free, etc.). This information can be printed out on your reports, but is not used anywhere else.

Checking the **Floor Stock** Item check box (floorstk) will prevent this part number from being decremented when the stock room module is used to issue parts to manufacturing. If a part number is stored on the manufacturing floor (such as nuts and bolts) and is not issued with the assembly, you would check the floor stock check box. Use the stock room's "Adjust Quantity" method to decrement the stores quantity when refilling the bin box on the manufacturing floor. When converting parts to assemblies, these items will not be converted.

If you have the Optional Serial/Lot Number module and the **Serialized Item** (serialitem) check box is checked, pc/MRP will display a window allowing you to enter or pick serial numbers when receiving, issuing, receiving back or invoicing this part number.

Checking the **Issue Subs Only** Check Box (subonly) forces pc/MRP to issue parts and sub-assemblies reporting to this assembly when issuing this assembly (regardless of level in BOM). The Issue Subs Only check box is only visible for assemblies. Used by the Check Availability report and Convert Parts to Assemblies. Sets Issue to MFG in Sales/Work Order. Issue to Mfg will use sales order setting.

If an assembly reports to a parent assembly and it is checked as a **Blow Through Assembly**, pc/MRP will issue component parts and ignore any on hand quantities for that sub-assembly. This is true for Issuing to Manufacturing, Convert Parts to Assemblies, Generating an MRP (Infinite and Single Bucket), Check Availability, Maximum Potential Build, Exploded Pick List, Costed and UnCosted Exploded BOMs (the BOM will contain an "\*" next to it, indicating it is a Blow Through BOM). Basically it is a BOM that is never pre-assembled, you always issue parts to it as though the component parts reported directly to the parent assembly. Applies to Issue to MFG, Exploded BOM, Exploded PIC List, Infinite Bucket. If a BT contains a subassy, it follows the Issue Settings. You cannot check both BT and Subs for a part.

VFP - C:\V832 (User: DOUG) Modules Tools Optional Configuration	Inventory Data Entry S	creen	<u> </u>
Inventory (Edit Mode)           Part #         CON-00001         Type           Description         CON, PCB MOD JACKS	e Daut Journations 🗶 to E	rmation for this part	spection Criteria
Qtys \ Costs Vendors	Sales Prices Details	1 Details 2	QuickBooks® Insert Part Name from QuickBooks (qbpartid)
QuickBooks®Id Humbers Inventory Id	Item does not currently exist within Q QuickBooks the next time the item is In CON-00001	woiced or Received.	
Cost of Goods Sold Account	Cost Of Goods Sold	/	nvoiced (qbcogsold).
Income Account Asset/Expense Account	Business Income		-
Dequires Ontional Asset account	Operating Expense Account debits	Other Current Asset Expense nt Name from QuickBooks. Id when received and credite invoiced (qbasset).	Account credited when invoiced (qbincome).
If a file named ALLOWCOGS.FLG exits in users to select a COGS account for the As INVENTORY part numbers. 8.90L, 8.94J a Current Liability Account Types to make a	set/Expense Account for PART- NON nd 8.95D and higher will allow Other	The QBPartsdbf and QBAcco cached Quick Books part and These files can be refreshe QuickBooks and "Update the	d chart of accounts info. ed by selecting Optional,

## 5.1.2.11. Enter a New Part Number, Step 11, Enter QuickBooks Information

If you have activated pc/MRP's Optional QuickBooks Interface Module, select the QuickBooks Tab to enter/edit QuickBooks information for this part number.

Whenever an invoice is exported to QuickBooks:

The Cost of Goods Sold Account (QbCogSold) is debited for the total cost of the product. The Asset/Expense Account (QbAsset) is credited for the component cost of the product. The Income Account (QbIncome) or the Default Income Account is credited for the sale price. The Default Accounts Receivable Account is debited for the sale price.

Whenever a receiver is exported to QuickBooks:

The Asset/Expense Account (QbAsset) is debited for the component cost of the product. The Default Accounts Payable Account is credited for the cost of the product.

pc/MRP populates the drop down chart of accounts lists from its own QbAccountsDbf.dbf instead of populating the chart of accounts lists from QuickBooks. (This is very fast.) pc/MRP creates a fresh copy of QbAccountsDbf.dbf whenever invoices or receivers are exported to QuickBooks. If the account does not exist in the dropdown list, but exists in QuickBooks, delete the QbAccountsDbf.dbf file forcing pc/MRP to get the list directly from QuickBooks. The QbAccountsDbf.dbf file will be created the next time pc/MRP exports to QuickBooks.

pc/MRP's QuickBooks Accounting fields are 159 characters (QuickBooks' own limit). This allows for multiple subaccounts and larger account descriptions.

See Chapter 16.16 in this Manual for details on the implementing the QuickBooks Interface Module.

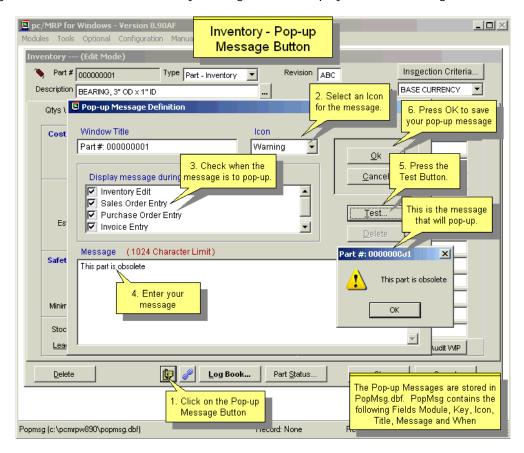
# 5.1.2.12. MRP Overview Tab

The MRP Overview Tab displays the resulting action items of the last Infinite Bucket Generation along with critical information for the part number being edited.

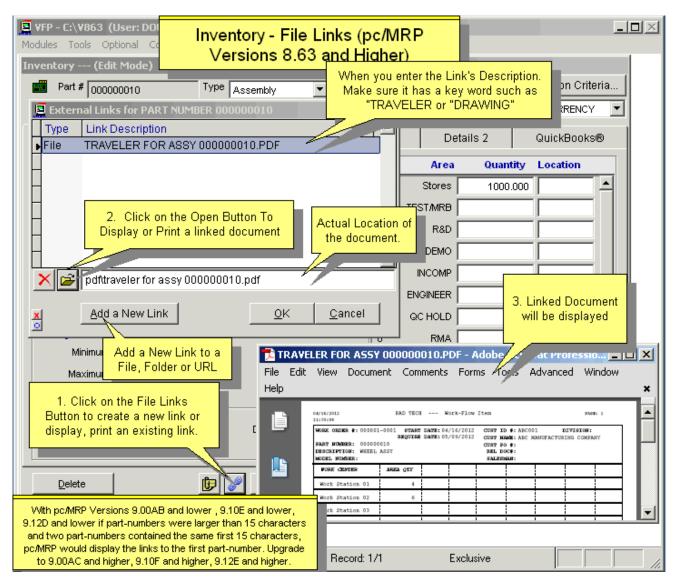
pc/MRP for Windows - Version 9.3 Modules Tools Optional Configuratio	Inventory Da	33C atleast Pa	ers must have assword View view MRP data			
Inventory (Edit Mode)  Part # 0000000001  Type Part - Inventory Description BEARING, 3" OD x 1" ID  Click on the MRP Overview Tab to get a quick look at the critical MRP information on the part number  CURRENCY  CURRENCY						
Qtys \ Costs     Vendors       COGS Acct	AVE Cost Buyer Prime Vendor Mfg Part # 1 Po Unit	r KIM Cat Inc r BBC MANUFACTURING 1match/ven good fuzTe t POUNIT PO Ratio	ion 1234 On Order dex Cl1 On Demand COMPANY Std Order Oty	MRP Overview -21.000 0.000 0.000		
Aux 1 Aux 2 Start End Action Gty	Stk & Iss Unit Lead (Days) Order - Line	Image: Description         MRP Ger 06/27/2019           Alloc         Net         To	peration Date 9.03:47:26 PM 1 Stores 2 TEST/MRB	0.000		
06/28/2019 06/28/2019 SALE 1 06/27/2019 06/29/2019 BUY 14	0.000 - 1.000 SO 000103-0001 4.000 SO 000102-0001 4.000 SO 000102-0001	0.000 0.000 1.000 -1.000 0000 14.000 13.000 0000 14.000 -1.000 0000	00011 5 INCOMP			
06/28/2019 07/02/2019 BUY 7 07/02/2019 07/02/2019 ISSUE 1	2.000 PO 000103-0001 2.000 SO 000101-0001 1.000 SO 000101-0001 2.000 SO 000101-0001	0.000 1.000 7.000 8.000 0000 8.000 7.000 0000 7.000 0000	00010 9 Header, S	Click on the Grid Show Color Legend		
Qty in stock as per the End Date         Delete         Delete         Delete						

# 5.1.2.13. Enter a New Part Number, Step 12, Buttons in the Footer

You can create **Pop-up Messages** that will display when a user edits this inventory item, enters an invoice for this item, etc. Purchase Order Entry messages will be displayed when entering a PO, entering a purchase request, or converting a PR to a PO. Sales Order Entry messages will be displayed when entering a SO or entering a SO.

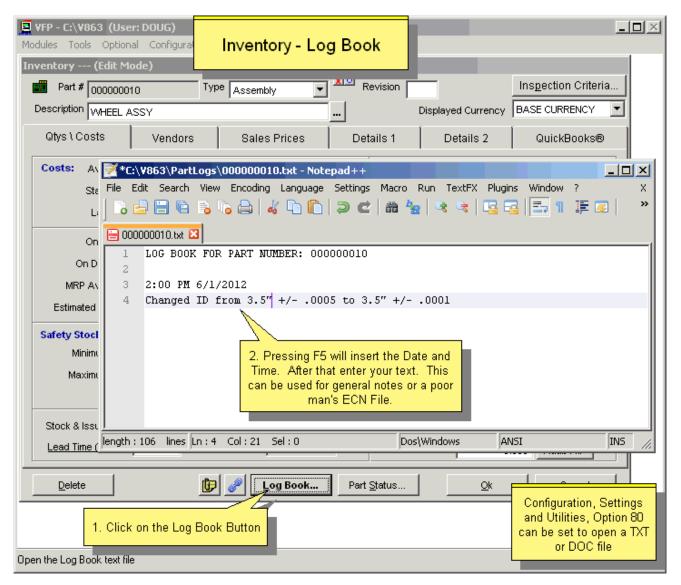


The **Links** button allows the user to create links to files, folders and URLs. In Inventory it is used to attach drawings or travelers. The file links icon turns red if there are any existing links for the part.



To learn about how to automatically print the linked files along with a pc/MRP document, see the slide show starting at <a href="http://www.pcmrp.com/mrp101/flinksdatabasefile.htm">http://www.pcmrp.com/mrp101/flinksdatabasefile.htm</a>.

The **Logbook** button opens a text file where additional comments or instructions regarding the part may be recorded. **Option 80** lets you select whether .txt (Notepad) or .doc (Word) will be the default format. Important: Do not change the filename assigned to the log file. pc/MRP then would no longer be able to associate the file with the part number.



The **Part Status** button will allow the user to:

Display/Print all BOMs that use that part number

Display/Print all Shortages on the manufacturing floor by sales/work order for that part number Display/Print all Quantities on the manufacturing floor by sales order for that part number Display/Print all inventory movements for a specified time period for that part number Display/Print all Purchase Orders for that part number

Display/Print all MRP action items (Buys, Issues, Makes, Etc.) for that part number Display/Print a Graphical MRP Time Line (Buys, Issues, Makes, Etc.) for that part number Display/Print a Graphical Item Map of the Onhand Quantities by date for that part number Display/Print all Serial/Lot Number's available for that part number

Note: The 3 items that are related to the Infinite Bucket Module are only available if the Infinite Bucket Module has been activated and the user has view rights to it. The item that is related to the Serial Number Module is only available if the Serial Number Module has been activated and the user has view rights to it.

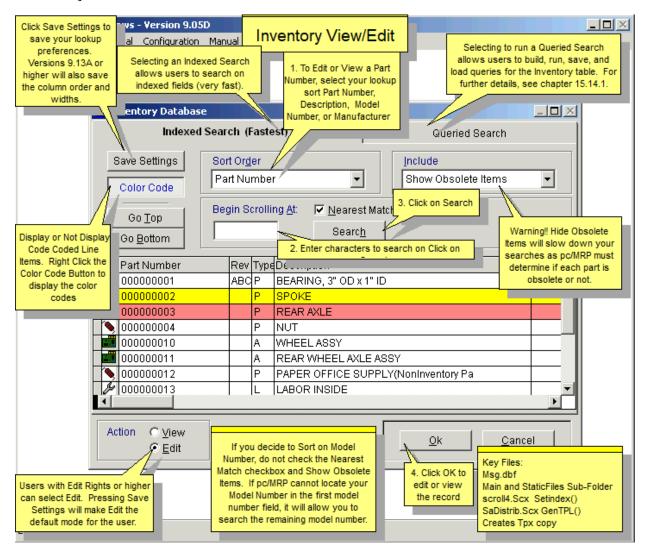
VFP - C:\V863 (User: DOUG)      Modules Tools Optional Configuration M      Status Bu      Inventory (Edit Mode)	
Part # 000000010 Type Assembly	Revision Inspection Criteria
Qtys \ Costs Vendors Sales Prices	Details 1 Details 2 QuickBooks®
Stock Shortages       (partinfo.scx.querydata())         WIP Detail       (partinfo.scx.querydata())         Movements       (partscr.partstatus())         All POS for a PN       (partscr.partstatus())         MRP Action Report(partscr.partstatus())       MRP Time Line         MRP Graph       (partscr.partstatus())         Stock & Jecus Lint       FA	Area       Quantity       Location         1       Stores       1000.000         2       TEST/MRB         3       R&D         4       DEMO         4       DEMO         9       STAGING         9       STAGING         10       SCRAP         11       RESERVED         12       Area-12         Versions       9.23B and higher.         12       Area-12         Versions       9.23B and higher.         12       Area-12         Versions       9.23B and higher.         11       RESERVED         12       Area-12         Versions       9.23B and higher.         13       Requires View Rights or higher to the Infinite Bucket MRP Module         MRP Action Report       MRP Module
Generate a list of BOMs that use this part	MRP Item Timeline

The **Ok** button saves changes to the record and returns you to the main menu.

The **Cancel** button does not save the changes to the record and returns you to the main menu.

# 5.1.3 Edit/View/Delete a Part Number

Click Inventory, Edit/View:



Every field within the inventory edit screen is editable (except MRP Available). Configuration, Settings and Utilities, **Option 62** can be used to set various fields (costs, quantities, etc.) to be read only.

Within the inventory edit screen users can also mark inventory items for deletion or unmark inventory items for deletion (you must have "Edit" rights if your company has the Optional Password Module activated). If users press the delete or undelete button, pc/MRP will ask what scope the deletion should take. In most cases you should select both the BOM and Inventory tables. Now pc/MRP will locate and mark for deletion or un-deletion every occurrence of that part in every BOM. The partnumbers will be highlighted in red until deleted via the menu (Modules, Inventory (or BOMs), Remove Marked Records 5.1.15.1 & 12.13).

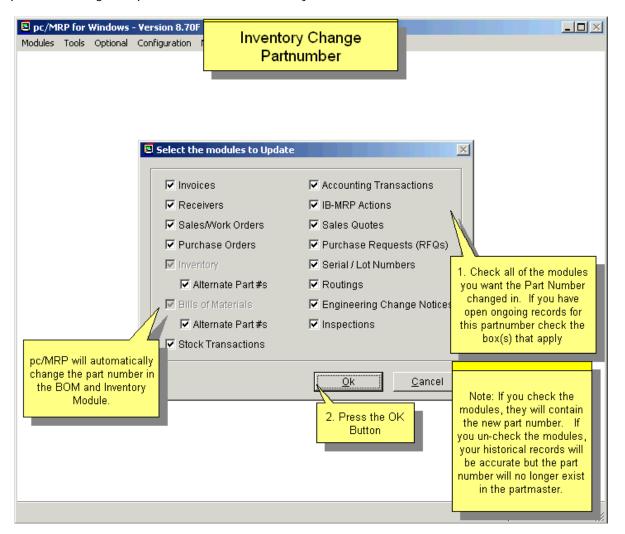
Selecting "Hide Obsolete Items" might make your scroll screen look less "cluttered" but it might take longer for pc/MRP to display the scroll screen.

The **Delete** button marks the part for deletion. To permanently remove the records from the database table, set an administrative lockout, and then select Inventory, Remove Marked Records.

oc/MRP for Window Jules Tools Option wentory (Edit M	al Configuration f	Manu Inv	/entory -Delete					
🍬 Part # 0000000		pe Part - Invento	ry 🔻	Revision	ABC	Ins	pection Criter	ia
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Costs: Avera			1		' Area	Quantity	Location	
		Assembly		1	Stores	5.00	_	
Standa	rd 10.000	Cost Details				-		
Last F	ol 6.000	000		2	TEST/MRB	2.00		
On Ord	ler	Display &	Std Orde	3	R&D			
On Dema	nd	Update		.000	DEMO			
Estimated Usa	qe		, Outlou Mt	5	INCOMP			
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C/MRP for Window Wes Tools Optiona Scheduler Enabled	rs - Version 9.005 al Configuration f ] ] elete a Part ou have elected to What scope (© 1. f C 2. f C 3. f C 3. f Deletion of a par The tables must	Manu Un- Mark for deleti e should the De Delete from bot Delete from the Delete from the Delete from the	Scharacter p /entory -Delete ion Part # 0 eletion take. h the BOM a BOM table ( Inventory ta pyce it from the rged by sele	Delete Button	Jpdate to 8.99	irk a part for o RP mark it fo A and Invento part orphane	deletion, you r deletion in ry Tables as	should BOTH to not
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# 5.1.4 Change Part Number

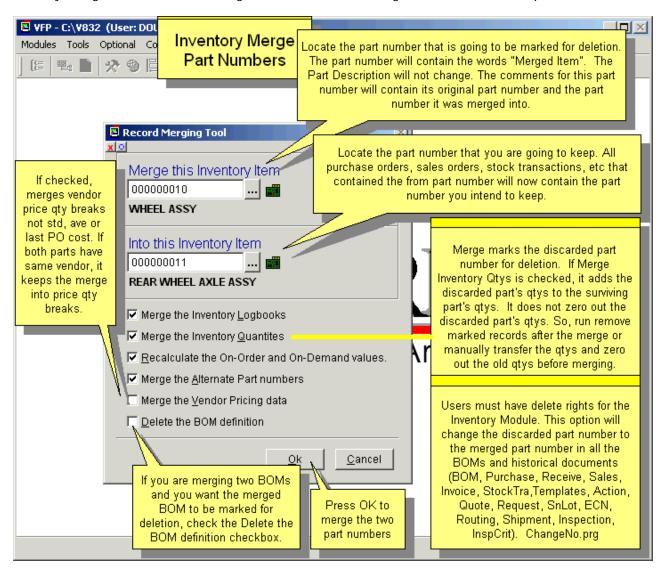
This option will change the part number in the Inventory database file and the BOM database file.



**Warning:** In case you would be changing a **blank** part number to a valid part number, make sure that you uncheck both "**Alternate Part #s**" fields. Keeping these fields checked will tell pc/MRP to fill up all blank altpart#s with the new part number in your entire Inventory in BOM table -- and pc/MRP will do just that. Call Software Arts, if this has happened.

## 5.1.5 Merge Two Part Numbers

Inventory, Merge two Part Numbers Together. Please see the image below for detailed explanation.



**Note:** Vendor pricing data means the price/quantity breaks on the Vendor tab. The part's Average, Standard or Last PO cost will not change – it is Accounting's task to determine these values.

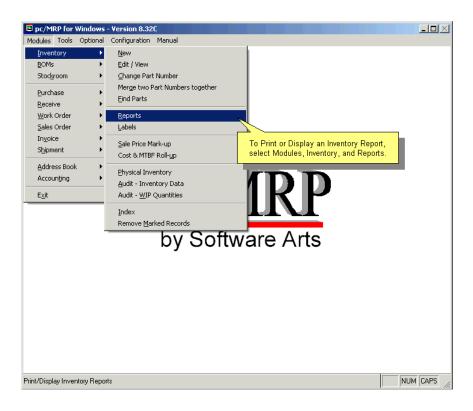
#### 5.1.6 Find Parts (Matching a Partial Description)

Allows users to search for all parts matching a specified description in the Inventory Description Field or Memo Field. For example, to search the Inventory Description Field for all elbows you could select D - Description to search on, and enter the letters ELB into the description field.

Search Description, Model Number, General Info, Primary Manufacturer, Cat Index. We recommend using Edit, select the Indexed Search Tab to look-up by Part Number, Description, Model Number, Manufacturer OR select the Queried Search Tab and lookup on ANY field in the partmast database file.

# 5.1.7 Reports

To Display and or Print an Inventory Report, select Modules, Inventory, and Reports.

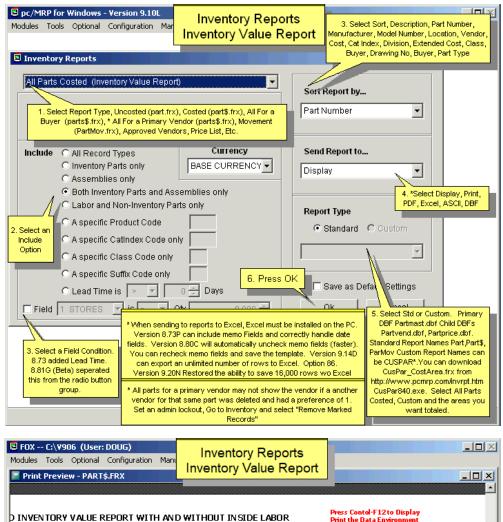


There are a variety of standard un-costed (part.frx), standard costed (part\$.frx) and custom (cuspart\*.frx) reports to choose from. See Section 15.4.1 about creating custom reports.

All parts costed for single areas are cuspart0-cuspart20.frx and are available for download at <u>http://www.pcmrp.com/invrpt.htm</u>

**Note:** Sending memo fields into Excel significantly slows down the process. Do not include memo type fields, unless you need them. pc/MRP defaults to not include memo fields.

#### All Parts Costed (Inventory Value Report)

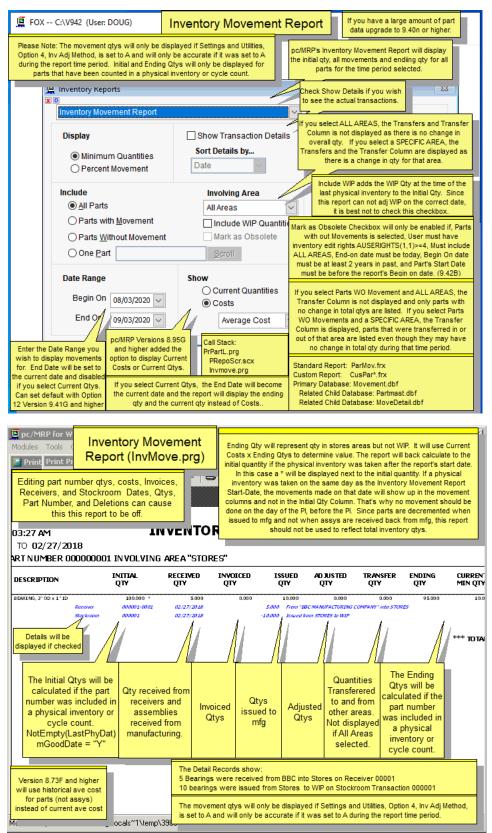


ress Contol-F12 to Display rint the Data Environment or any pc/MRP report/form ED BY PART NUMBER" DEN INCOM ENGINEER QC HOLI R&I TOTAL UNIT SCRAP SERVED Area-12 Area-13 Area-14 WIP OT TOT AL QT AVECOST AVECO Area-17 Area-18 Area-19 Area-20 1006 10.000000 10060.0 mome 1220.0 0 100000.00 1000.00000 1000 0 × Print Pres 啗 M .∎. -0.0000 1000 **I**. 100% -8 1000 290.00000 290000.00 Cost WO Inside Labor Costs 0 1500000.0 1000 500.000 Cost WO Inside Labor Costs 1500.000000 1500000.00 Call Stack 16600.00 Total Valu 2801280.00 Module: partmast.fxp 00 Total Value WO Inside Labor Costs Module: prpartl.fxp Module: proutput.fxp Primary Database File: PARTMAST Order: BYPARTNO Total Child DataBase File: PARTPRICE Relation: UPPER(PARTNO) Skip Inventory Child DataBase File: PARTVEND Relation: UPPER(PARTNO) Skip Value Partmast (c:\v906\partmast.dbf) Record: EOF/11 Record Unlocked INUM

# All Parts Un-Costed Report

Modules Tools Optional Configuration Manu All Parts Uncosted	ts
All Parts Oncosted	
Inventory Reports	×
All Parts Uncosted	
	Sort Report by
	Description
	Send Report to
Include C All Record Types C Inventory Parts only	Display V
C Assemblies only <ul> <li>Both Inventory Parts and Assemblies only</li> </ul>	
C Labor and Non-Inventory Parts only	Report Type
C A specific Product Code	Standard C Custom
C A specific CatIndex Code only	CUSPAR01.FRX
C A specific Class Code only	
C A specific Suffix Code only	☐ Save as Default Settings
Field Obsolete	Ok Cancel
Exclude Obsolete Parts	
Include Only Obsolete Parts	
Versions 8.82L and higher contain the option to Exclude Obsolete Parts or Include Only Obsolete	
Parts. This option is not enabled for the Inventory Movement Report and the Assigned Vendor List.	
	NUM //
pc/MRP for Windows - Version 9.36C Modules Tools Optional Configuration Manu Inventory Print Report	ts
All Parts Uncosted	
	ort: CuPar*.frx
La a 🕞 N N 1752 🖃 N 🖉 🖂 Child DataBa	base File: PARTMAST Order: BYPARTNO ase File: PARTPRICE Relation: UPPER(PARTNO) Skip:
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Part Model V	On Stores WIP On
Number Description Number Vendor ID Unit	Demand Glores Wir Order Qty Qty Qty Qty
Print Preview	NUM

The **Inventory Movement Report** (*parmov.frx*) summarizes all part movements for a time period you specify and categorizes as Received (component parts received, AP vouchers that receive component parts, debit memos for negative quantities, and assemblies received from manufacturing), Invoiced, Issued, and Adjusted Quantities.



pc/MRP for Windov Modules Tools Option     Print Print Previet	Inventory M Repo	ort	(lastphy inventory numbers (ii they are	dat) is inserte y or full cycle f the parts we stored as last	plays the Last P d when you en count, import a re not in partma phyqtys. Versio a BOM when yo	ter a part numb part number or ast). If you ente ons 9.40C and h	er, take a phy a BOM and its ered or include higher will inse	sical s part ed qtys,
03:27 AM	тт	IVENTO	transaction forward to	is prior to or a the qty on the	e last phys qtys fter the start da starting (Initial) ack calculated	ate you selecte date. A * next	d to calculate to the inital qt	back or
TO 02/27/2018			The repor		e transactions ate the gtys on			date to
RTNUMBER 000000	001 INVOLVING	AREA "STOR	E This re		InvMove.prg to			tys.
DESCRIPTION	INITIAL QTY	RECEIVED QTY	INVOICED QTY	ISSUED QTY	AD JUSTED QTY	TR <i>A</i> NSFER QTY	ENDING QTY	CURREN MIN QT
BEARING, 3" OD × 1" ID Receiver Stockrot		5.000 <i>02/27/2018</i> <i>02/27/2018</i>	0.000		0.000 BC MANUFACTURING Yom STORES to WIP	0.000 COMPANY" into STOR	95.000 IES	10
Potential reasons why If there were initial qty or physical inventory People used the inver editing Qtys. Force us	ys and the part numb (This replaces the lat itory data entry scree	er was entered of stphydat and last en to edit qtys.	or imported wit phys qtys with Configuration, s	- hout qtys. Thi n good dates a	and qtys).			
Part numbers are cur Movement Report con			-			anufacturing. T	The Inventory	
Invoices and or receiv Version 9.30A only pu pc/MRP inserted a rec	it a record in the aud	it trail module if th	ie user selects	to not allow u	pdating the inv	entory module.		
People used Excel Sp	readsheets, an exter	nal program, or	the Command I	Lines Copy Fie	eld to insert qty:	s into the partm	aster.	
The movement qtys w was set to A during th		if Settings and Ut	tilities, Option 4	, Inv Adj Metho	od, is set to A a	nd will only be	accurate if it	
Full Cycle and Physics entered as pc/MRP co	•					stockroom trans	sactions are	
Preferred Fix: If actuation part first thing next m			the Inventory I	Movement Rep	oort Ending Qty,	take a full cyc	le count for th	le

PAGE: 1 DATE: 04/06/2015 03:49:09 PM PERIOD: 03/06/2015 TO 04/06/2015 REPORT TYPE: ALL PART NUMBERS

## INVENTORY MOVEMENT REPORT

PARMOV.FRX

PARTNO	DESCRIPTION		INITIAL QTY	RECEIVED QTY	INVOLCED QTY		SUED 2TY	AD JUSTED QTY	ENDING QTY	CURRENT MIN QTY	OURRENT QTY	REVIEW
00000001	BEARING, 3" OD x 1" ID		0.000	250.000	1.000		1.000	0.000	248.000	10.000	248.0000	
		Receiver	000001-0001	04/02/2015		100.000	From "AR	ROW ELECTRONICS" Into STOR	E5			
		Receiver	000002-0001	04/02/2015		150.000	From "AR	ROW ELECTRONICS" Into TEST/	MRB			
		Involce	000001-0001	04/06/2015		-1.000	To "OREG	ION STATE BOARD OF EQUALIZA	AT ION" from STORES			
		Stockroom	000010	04/06/2015		-1.000	Issued in	om STORES to WIP				
00000002	SPOKE		5.000	1000.000	10.000		40.000	0.000	955.000	10.000	957.0000	REVIEW
		Receiver	000003-0001	04/02/2015		250.000	From "BB	C MANUFACTURING COMPANY	Into STORES			
		Receiver	000004-0001	04/02/2015		750.000	From "BB	C MANUFACTURING COMPANY	"Into R&D			
		Involce	000002-0001	04/06/2015		-10.000	To "CA 5	TATE BOARD OF EQUALIZATION	" from R&D			
		Stockroom	000011	04/06/2015		0.000	Issued in	om STORES to WIP				
		Stockroom	000012	04/06/2015		-40.000	Issued in	om R&D to WIP				
00000003	REAR AXLE		10.000	0.000	0.000		0.000	0.000	10.000	0.000	10.0000	
0000004	NUT		105 000	0.000	0.000		0.000	5000	110,000	0.000	110 0000	

**Warning:** The Inventory Movement Report will only be accurate if **Option 4**, Inventory Adjustment Method is and has been set to A during the time period covered.

Check "Show Details" if you want to see the actual transactions. Select a specific area, or all areas. The Inventory Movement report includes all part types (inventory and non-inventory items, assys, labor).

When a Physical Inventory (or a full cycle count) is taken, each participating part's last physical inventory date is updated with the current date. Behind the scenes, pc/MRP will also save the quantities counted in each area, and the wip quantity. When a user creates a new part in pc/MRP, these same fields get populated with the current date and the entered quantities. This date and quantities will be used by the Inventory Movement Report as a base:

The Initial Quantity is calculated from the quantities just described. The report will back calculate to the initial quantity if the physical inventory was taken after the report's start date. In this case a \* will be displayed next to the initial quantity. If the part has been imported to pc/MRP and never been included in a physical inventory (or full cycle count), there is no base quantity to start the calculation with. In this case both Initial and Ending Quantities will show the word UNAVAILABLE.

If a physical inventory was taken on the same day as the Inventory Movement Report Start-Date, the movements made on that date will show up in the movement columns and not in the Initial Qty Column. That's why no movement should be done on the day of the PI, before the PI.

*Do not check the include WIP Qtys checkbox.* If you do, the WIP Qtys from the last Physical Inventory will be taken into account when calculating initial quantities. Since this report does not use WIP quantities on the current date, it is best not to check this box.

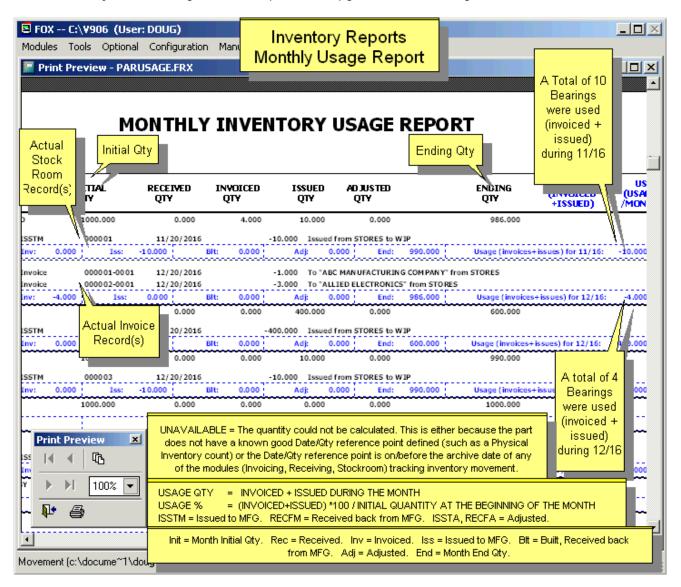
The Inventory Movement Report has the following columns: part number, initial quantity, received quantity (component parts received, AP vouchers that receive component parts, debit memos for negative quantities, and assemblies received from manufacturing), adjusted quantity, invoiced quantity, issued quantity, and ending quantity. The calculation starts with the Initial Quantity, as described above. Receiving increases the quantity of items, Issuing or Invoicing decreases it. Adjusting might increase or decrease the quantities.

If you run the report for all areas, B type (transferring between inventory areas) transactions do not change the ending quantity; therefore they will not be listed. However, if you are running the report for a certain inventory area, transferring transactions do have a role, and they *are* listed.

The report uses the actual average cost at the time of the End Date for parts, and the current average cost for assemblies, to determinate value.

If your goal is to compare Ending Quantities to current inventory quantities, select the Current Quantities option. This option displays current onhand quantities (for all areas or for a certain area) and a REVIEW flag if it is different than the ending quantity. Again, do not check Include WIP. Selecting this option is only meaningful with today's date as the ending date, therefore the ending date defaults to today and is not editable if you select Current Quantities.

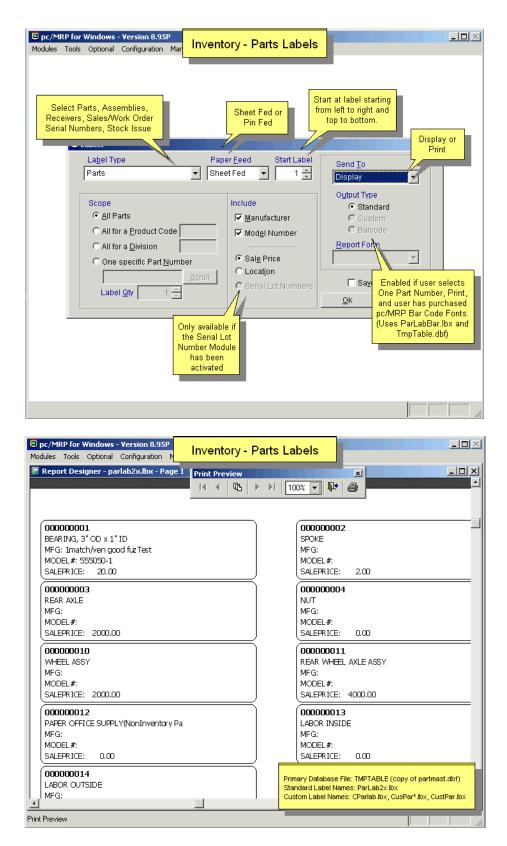
The **Monthly Inventory Usage Report** (*parusage.frx*) is similar to the Inventory Movement Report, but it subtotals the movements (received, invoiced, issued, adjusted) by month. In addition, the report will display the initial and ending quantities for the month. Finally, the usage for each calendar month in the selected data range will be displayed in total and as a percentage of the month initial quantity. Usage is defined as Invoices + Issues (ISSTM). Note: If you have a large amount of part data, upgrade to 9.40n or higher.



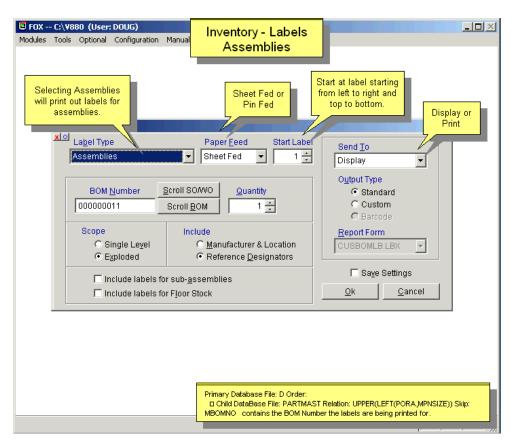
## 5.1.8 Labels

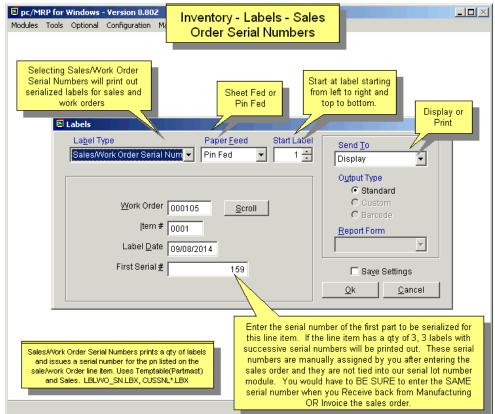
You can print out labels for Part Numbers, Assemblies, Receivers, Sales and Work Order Serial Numbers, and Stock Issues for a Sales/Work Order Number. For laser printers, select Sheet Fed and purchase standard 1" x 4" 20 labels/ page. For dot matrix printers select Pin Fed and purchase 15/16" high by 3-1/2" wide single row pin fed labels. You can create custom labels by reviewing Section 15.4.2.23 of this Manual and using Configuration, Settings and Utilities, **Option 24**.

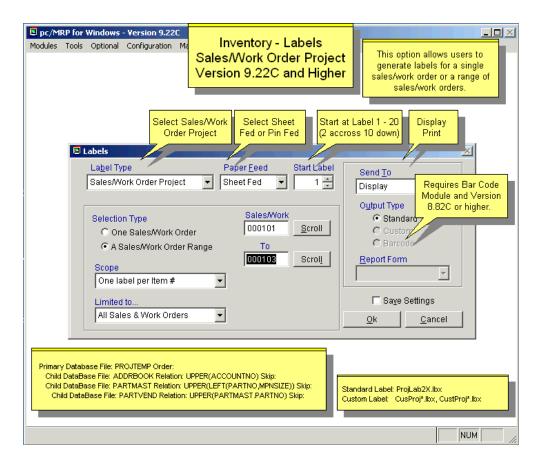
## Part Labels

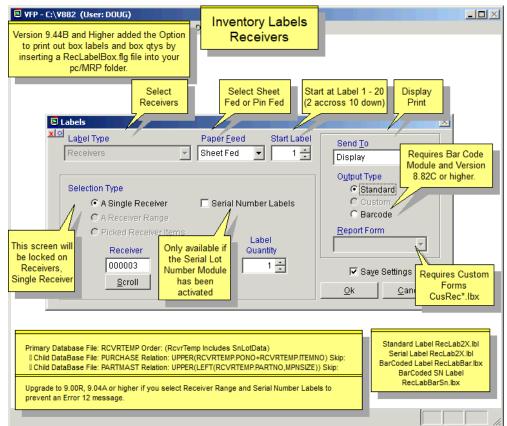


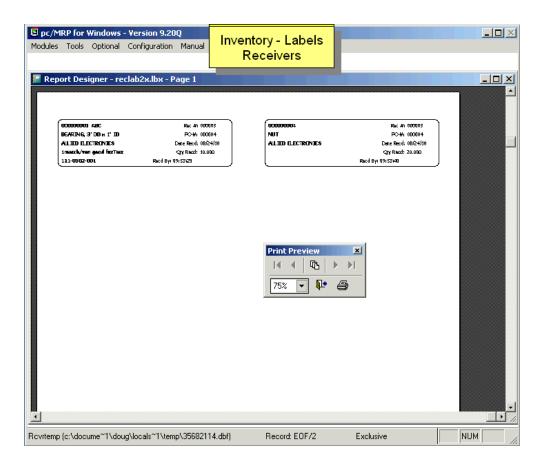
The Work/Sales Order label option creates a MEM file (*wosernum.mem*) to store the last serial number issued. It increases the serial number and prints out as many labels as received for the Work/Sales order line item.

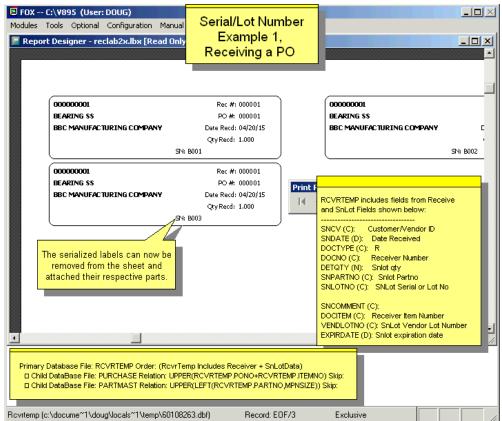






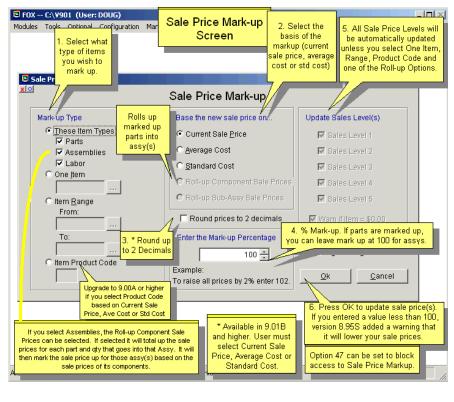






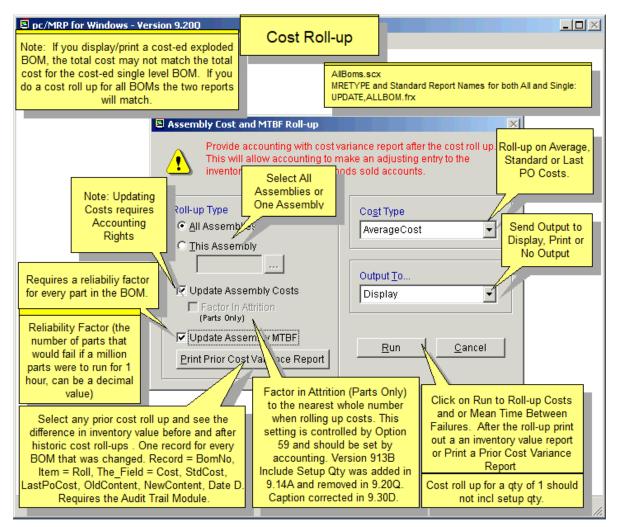
## 5.1.9 Sales Price Markup

Select Inventory, Sale Price Mark-up. Automatically mark up every part's sale price to a specified % of each parts current cost or sales price. E.g. if you want to increase your prices by 2%, enter 102. If you enter a percentage value that is smaller than 100, pc/MRP will warn you that you are about to lower your prices.



Part # 000000	1010 VI		Revision		Inspection Criteria
Description		Pe Assembly	<u>-</u> !		BASE CURRENCY
Description WHEEL	. ASSY	ſ		Displayed Currency	DASE CORRENCY
Qtys \ Costs	Vendors	Sales Prices	Details 1	Details 2	QuickBooks®
Le	vel 1	Le	vel 2	L	evel 3
Quantity	Price	Quantity	Price	Quantity	Price
1	10.200000		0.000000	1	0.000000
10	9.180000		0.000000		0.000000
	0.000000		0.000000		0.000000
	0.000000		0.000000		0.000000
	0.000000				
	und 4	Originally the sale p			
Le Quantity	evel 4 Price	\$9.00 for a qty of 1	0. The average u	nit cost of its bea	ring went from
	Delter	\$9.00 for a qty of 1 \$1.00 to \$1.10. VVe the wheel to \$5.10	0. The average u did an average cos for one wheel. We	nit cost of its bea st roll up which ra then did a sale pi	ring went from ised the cost of rice mark-up of
Quantity	Price 0.000000	\$9.00 for a qty of 1 \$1.00 to \$1.10. We the wheel to \$5.10 200%. pc/MRP no	O. The average u did an average cost for one wheel. We oted that the original	nit cost of its bea st roll up which ra then did a sale p al sale price for or	ring went from ised the cost of rice mark-up of ne was \$10.00
Quantity	Price 0.000000	\$9.00 for a qty of 1 \$1.00 to \$1.10. We the wheel to \$5.10 200%. pc/MRP n and new price for or \$9.18 (10.20/10.00	0. The average u did an average cos for one wheel. We oted that the origina ie is now \$10.20. p x \$ 9.00). pc/MR	nit cost of its bea st roll up which ra then did a sale pi al sale price for or oc/MRP changed P would apply the	ring went from ised the cost of rice mark-up of ne was \$10.00 it from \$9.00 to
Quantity	Price 0.000000 0.000000	\$9.00 for a qty of 1 \$1.00 to \$1.10. We the wheel to \$5.10 200%. pc/MRP n and new price for or \$9.18 (10.20/10.00	0. The average u did an average cos for one wheel. We oted that the origina ie is now \$10.20. g	nit cost of its bea st roll up which ra then did a sale pi al sale price for or oc/MRP changed P would apply the	ring went from ised the cost of rice mark-up of ne was \$10.00 it from \$9.00 to
Quantity	Price 0.000000 0.000000 0.000000	\$9.00 for a qty of 1 \$1.00 to \$1.10. We the wheel to \$5.10 200%. pc/MRP n and new price for or \$9.18 (10.20/10.00	0. The average u did an average cos for one wheel. We oted that the origina ie is now \$10.20. p x \$ 9.00). pc/MR	nit cost of its bea st roll up which ra then did a sale pi al sale price for or oc/MRP changed P would apply the	ring went from ised the cost of rice mark-up of ne was \$10.00 it from \$9.00 to

# 5.1.10 Cost Roll Up and MTBF Roll Up



The Inventory, Cost and MTBF Roll Up option will allow users to roll up costs (average, standard or last PO) and mean time between failures for all assemblies or a single assembly. The Cost and MTBF Roll Up screen is displayed above.

Select **All Assemblies** or **This Assembly**. If you select "This Assembly", you can scroll and lookup the assembly by pressing the ellipsis (...) button. In either case, the cost roll-up will not use any assembly cost in the calculation; it always totals their parts' costs (plus any labor costs). If you selected All Assemblies, all assemblies will have their costs re-calculated. If you selected This Assembly, only that assembly's cost will be re-calculated, none of its subassemblies' costs will be changed.

**Note:** Phantom BOMs (as default) are handled as parts. The phantom BOM's cost will be used in the calculation, regardless of its parts' costs. If **Option 59** is set to "Roll Phantom BOMs", then the cost roll-up will handle the phantom BOM as an assembly.

If you do not check any of the Update check boxes, pc/MRP will display the current assembly(s) cost and MTBF. However, it will not update the cost and MTBF in the partmaster file. If you do check these boxes, pc/MRP will update the cost and MTBF in the partmaster. You must have Edit rights in the partmaster file, to check the "Update" checkboxes. In addition, Configuration, Settings and Utilities, **Option 47** can be set so that only users with *accounting* Edit rights can check the "Update the Assembly Costs" checkbox. If you are not going to allow users without accounting rights to roll up assembly costs, be sure to set **Option 61** to not allow users to update assembly costs when displaying/printing out a costed exploded BOM.

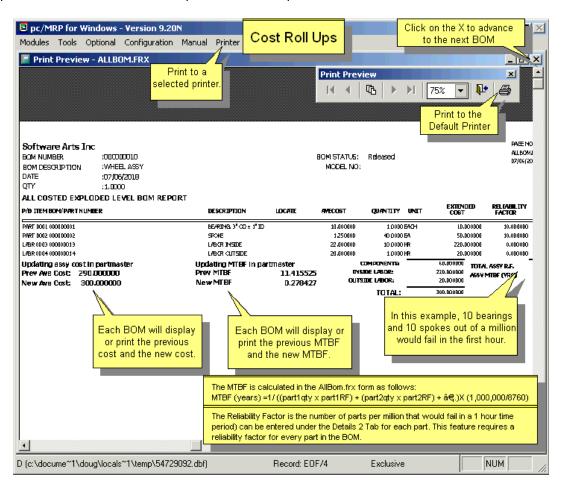
Before performing a cost roll-up, check with Accounting to see if they are using Average or Standard Costs and if it is OK with Accounting to perform a cost roll-up. Accounting should be provided with an inventory value report before and after the cost roll-up. This will allow Accounting to adjust the inventory Asset and Cost-of-Goods accounts. **Option 59** can be used to set the cost roll-up default settings (average, standard, last PO costs).

The "Output To" drop down list box allows users to send the report to "Display", "Print" or "None". If you selected All Assemblies and Display/Print, pc/MRP will display/print the results of the cost roll-up for the first assembly. Click on the X to advance to the next BOM. Select Yes to display/print the next BOM, No to cancel the cost roll-up process, All to finish the cost roll-up without displaying/printing anything.

If you want to print out the BOM currently shown on the screen, either click on the printer icon (the default printer will be used) or select Printer from the top menu (if you want to select a printer other than the default).

**Note**: If you display a costed exploded BOM, the total cost may not match the total cost for the costed single level BOM. After you run a cost roll-up for all BOMs, the two reports will match.

To print the Prior Cost Variance Report below, the optional Audit Trail Module must be activated.



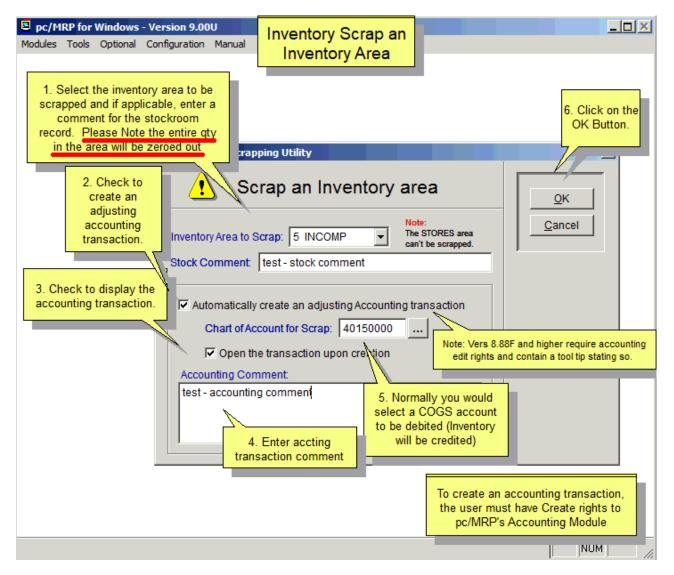
The **MTBF** is calculated as follows:

MTBF (years) =1/ ((part1qty x part1RF) + (part2qty x part2RF) + ....)X (1,000,000/8760) The Reliability Factor (# of parts per million that would fail in a 1 hour time period) can be entered under the Details 2 Tab for each part. This feature requires a reliability factor for every part in the BOM.

# 5.1.11 Physical Inventory and Cycle Count Programs

This option allows users to take a physical inventory and/or cycle count of all parts that have not been issued to the MFG Floor (WIP). See the Physical Inventory Chapter of this Manual (Ch.5.2) for a complete description of the Physical Inventory and Cycle Count Programs.

## 5.1.12 Scrap an Inventory Area



Select the area to be scrapped. Note: The Stores area cannot be selected.

pc/MRP zeroes out all the inventory quantities for that area, and creates Stockroom adjusting transactions, one for each part number. Positive quantities will be adjusted down and negative quantities will be adjusted up. If any of these items are serialized (and the optional Serial/Lot Number Module has been activated), pc/MRP will prompt you to enter the corresponding serial/lot number transactions. These will be "J" type adjusting transactions.

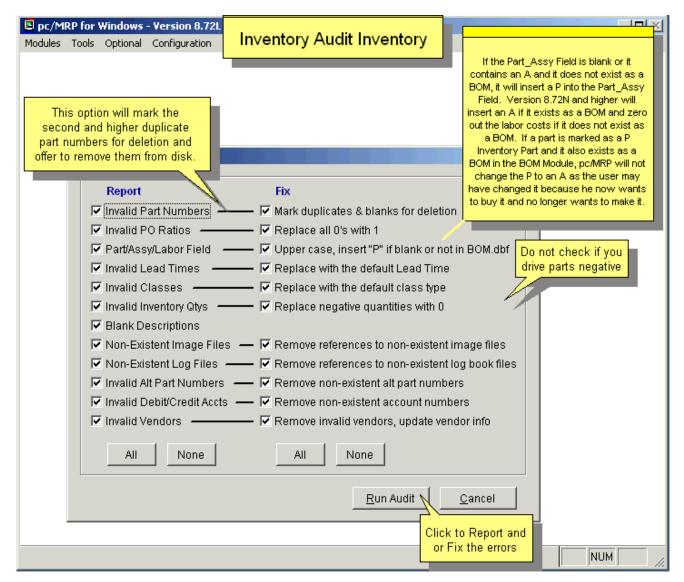
The screen below shows one of the Stockroom A type transaction records pc/MRP has created. Adj Reason: Scrap. Related Document #: Automated Scrap.

A Stockroom report for today's date, Related Document #: Automated Scrap will list all the parts scrapped. The total cost will match the dollar amount of accounting transaction.

pc/MRP for Windows - Version 9.000     Modules Tools Optional Configuration Manual     Inventory Area	
Stock Transaction Record - [Edit Mode]	
Stock Transaction # 000144 Part Number A3AFNIMA-001 Rev	
Sales/Work Order # NONE Description Digital Board, Signal Board	
Receiver # NONE Manufacturer	
Item # 0001 Model Number	
Related Document # Automated Scrap	
Transaction Date 08/24/2016 Lot Number	
Division Serial Number	
Debit Account # Unit	
Credit Account # INCOMP Unit Cost 32.450000	
Entered By , 11:14:44 Inventory Area INCOMP	
Transaction Type ISSTA Types Required Qty -1.000	
Issued Qty -1.000	
Comments test - stock comment	
Aux Last Change 08/24/2016	
Adj Reason Scrap	
Note: Behind the scenes, pc/MRP has created	
Stockroom A type transaction records, one for each	h part.
Adj Reason: Scrap. Related Document #: Automated Scrap.	
Stocktra (c:\pcmrpw_900\stocktra.dbf) Record: 145/147 Record Unlocked	NUM
Medules Tools Optional Configuration Manual Inventiony Scrap an	
Modules Tools Optional Configuration Manual Inventory Area	
Modules Tools Optional Configuration Manual Print Preview - STOCKLOG.FRX	
Modules Tools Optional Configuration Manual Print Preview - STOCKLOG.FRX STOCK ISSUE REPORT	
Modules Tools Optional Configuration Manual Print Preview - STOCKLOG.FRX STOCK ISSUE REPORT HISFOR RELATED DOCUMENT # Automated scrap FRCM 08/24/2016 THRU 02/24/2016ADJUSTING TRANSACTIONS ONLY SORTED BY PARTHUMBER	
Modules Tools Optional Configuration Manual       Inventory Scrap and Inventory Area         Inventory Area         STOCK ISSUE REPORT         Mis For Related DOCUMENT # Automated scrap FRCM 08/24/2016 THRU 08/24/20165THRU 08/24/20165THRU 08/24/2016 THRU 08/24/20165THRU 08/24/24/20165THRU 08/24/24/24/24/24/24/24/24/24/24/24/24/24/	
Modules       Tools       Optional       Configuration       Manual         Inventory       Stock apart         Inventory       Area         STOCK ISSUE REPORT         Mission       Stock issue acrop       FRCM 08/24/2016       THRU 09/24/2016       Optional Science       Optional Science         M       Action       Area       Partition       Date       QTV REQ       QTV ISS/Rec       Schortage       To Optional Science         1       15574       Discord       Alternition       Discord       Signal Band       08/24/16       -1.000       -1.000       0.000	
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Modules       Tools       Optional       Configuration       Manual         Inventory       Area         Print       Preview       STOCK LOG.FRX         Inventory Area         STOCK ISSUE REPORT         M action       Date       Off         INTOCK ISSUE REPORT         M action       Date       Off         M action       Date       Off       Off         1       1557A       INCOMP       Alternan.col       Distribute       Struct Struct       0       0.000       0.000         1       1557A       INCOMP       Alternan.col       Distribute       Struct Place       0/9/24/16       -1.000       0.000         1       1557A       INCOMP       Struct Place       0/9/24/16       -1.000       0.000	101A 005T -32.45 -3.12 -44.40 -108.37
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Modules       Tools       Optional       Configuration       Manual         Inventory       Area         STOCK ISSUE REPORT         HISPOR RELATED DOCIMENT # Automated scrap       FROM 00/24/2016 THRU 00/24/2016/EDUSTING TRANSACTIONS ONLY SORTED BY PARTNUMBER         M       Action       Area       Part NUMBER       DESCRIPTION       Date       OTY REQ       OTY ISS/REC       SHORTAGE       DOM: STOCK 1.000         1       1557.6       INCOMP       AlleriumAutoi       Distribused. Sgral Based       06/24/16       -1.000       0.000         1       1557.6       INCOMP       AlleriumAutoi       Distribused. Sgral Based       06/24/16       -1.000       0.000         1       1557.6       INCOMP       Stateman       Distribused. Sgral Based       06/24/16       -1.000       0.000         1       1557.6       INCOMP       Stateman       Distribused. Sgral Based       06/24/16       -1.000       0.000         1       1557.6       INCOMP       Stateman       0.000       0.000       0.000         1       1557.6       INCOMP       Stateman       Stateman       06/24/16       -1.000       0.000         1       1557.6       INCOMP       Stateman       Stateman       06/24/	101A 005T -32.45 -3.12 -44.40 -108.37
Modules       Tools       Optional       Configuration       Manual         Inventory       Stock loss       Stock Loss Percenter         Inventory Area         STOCK ISSUE REPORT         THEFOR RELATED DOCUMENT # Automated comp FROM 0d/2d/2016 THEU 0d/2d/2016000015THING TRAHSACTIONS ONLY SOLTED BY PARTNUMEER         N       ACTION       AREA       Part NUMBER       DESCRIPTION       Date       OT       OT       OT       Stock Trade       D         1       1557A       NCOMP       LIFE-1080       OPE STEP LEO THEE SOLDER       04/24/26       -1.000       -1.000       0.000         1       1557A       NCOMP       LIFE-1080       OPE STEP LEO THEE SOLDER       04/24/26       -4.000       -4.000       0.000         1       1557A       NCOMP       LIFE-1080       04/24/26       -4.000       -4.000       0.000         1       1557A       NCOMP       Stockroom report for today's date, Related Document # "Automated Scr       will list all the parts scrapped. The total cost will match the dollar amount accounting transaction.	101A 005T -32.45 -3.12 -44.40 -108.37
Modules       Tools       Optional       Configuration       Manual         Inventory       Area         Print       Preview       STOCK LOG.FRX         Inventory Area         STOCK ISSUE REPORT         Maction       Colspan="2">Colspan="2"Co	101A 005T -32.45 -3.12 -44.40 -108.37

If you selected Automatically create an adjusting Accounting transaction, a transaction will be created to reflect all the changes in this area (debit the selected account and credit the default Inventory account). This option needs at least Create rights to the Accounting module.

# 5.1.13 Audit Inventory Data



You can select any or all the options. If you uncheck Fix, you will just receive a report of all issues found. If you check fix, you will still receive the report of the issues, but in the same time the problems get fixed.

Of the multiple functions, the first one searches inventory for duplicate part numbers. You will be asked if you want to remove duplicate part numbers. If you answer yes and the program finds duplicate part numbers, it will mark the second part number for deletion. The program will then remove the part numbers marked for deletion from the disk. If you answer no, pc/MRP will display or print a list of duplicate part numbers.

If the Part\_Assy field is "A" but the part number does not exist as a BOM, the Audit Fix will insert a "P" into the Part\_Assy field. If the Part\_Assy field is blank (because the part was imported into pc/MRP without this field) or invalid (lower case or not "P", "A" or "L", pc/MRP will insert a "P" or an "A" according to whether the part exists as a BOM.

## 5.1.14 Audit WIP Quantities

WIP stands for Work In Progress and is the inventory out on the manufacturing floor. You can Audit (correct) your WIP quantities by selecting Modules, Inventory, Audit WIP or by selecting Modules, Inventory, Physical Inventory, and Audit WIP.

The WIP Variance Report (WIPVAR.FRX) contains the quantity in WIP based on the stockroom issue records and the quantity in WIP based on the WIP quantity fields in the inventory module. The quantity issued column contains the quantity of that part number issued to that sales/work order. The quantity returned column contains the quantity returned (as part of the finished assemblies). The correct WIP quantity (stockroom) contains the quantity issued - (minus) the quantity returned. The current WIP quantity represents the quantity in the inventory WIP quantity field. The variance is the difference between the stockroom module and inventory module.

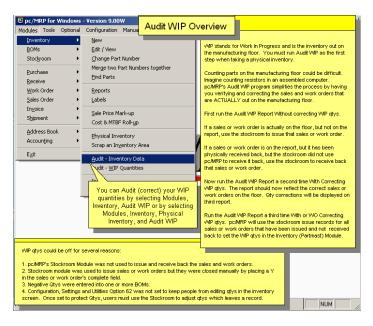
You must run Audit WIP as the first step when taking a physical inventory. Counting parts on the manufacturing floor could be difficult. Imagine counting resistors in an assembled computer. pc/MRP's Audit WIP program simplifies the process by having you verifying and correcting the sales and work orders that are ACTUALLY out on the manufacturing floor.

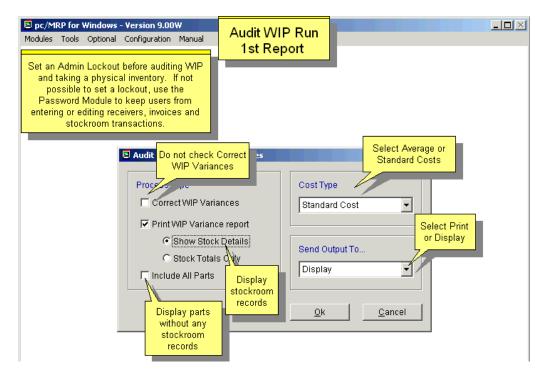
WIP quantities could be off for several reasons:

- 1. pc/MRP's Stockroom Module was not used to issue and receive back the sales and work orders.
- Stockroom module was used to issue sales or work orders but they were closed manually by placing a Y
  in the sales or work order's complete field. The stockroom module never received back these sales or
  work orders, but they show as complete.
- 3. Negative part quantities were entered into BOMs.
- 4. Configuration, Settings and Utilities **Option 62** was not set to prevent users from editing quantities in the inventory screen. Once set to protect quantities, users must use the Stockroom to adjust quantities.

This report will only print or display sales or work orders that are not complete (the complete field does not contain a "Y"), the order was issued to MFG (in the Stockroom table there is an ISSTM record), and the quantity issued is greater than the quantity returned (i.e. at least part of the SO/WO is still in manufacturing). An online slideshow is located here: <a href="http://www.pcmrp.com/mrp101/auditwiprun.htm">http://www.pcmrp.com/mrp101/auditwiprun.htm</a>

Run Audit WIP by selecting Modules, Inventory, Audit WIP or Physical Inventory. First run the Audit WIP Report without correcting WIP qtys.





If a sales or work order is actually on the floor, but not on the report, use the stockroom I-type transaction to issue that sales or work order. If a sales or work order is on the report, but not on the floor any more, use the stockroom R-type transaction to receive it back. You can run the report as many times as you need (without checking the Correct button) until the list of sales/work orders on the report is correct.

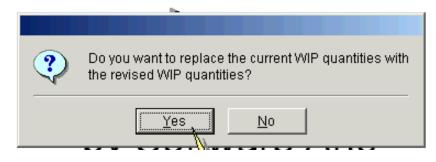
odules Print Print work ord pc/MRP's	Tools ( Preview report co lers (101 s Stockro	Optional - WIPV ontains the , 102, and	AR.FRX e sales and d 105) that rds show	ion Manua Print Previ	ew (A)	VIP 1st Repo	If for ex on the here, s from m b	ample sales/work ord manufacturing floor to omebody forgot to rec fg. Receive the sales ack as shown on slide	but is listed ceive it back /work order
	ate: 11 D\wo#		5 04:39:30 F STOCK TRANS	M	QUANTITY	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	WIPW
P/	ARTINU	MBER:	0000000	01	BEARI	NG, 3" OD x 1" ID			
00	0101	0001	000001		10.000	0.000	10.000	I	
00	0102	0001	000004		20.000	0.000	20.000	I	
00	0105	0001	000006		1.000	0.000	1.000	I	
		00	0000001			** TOTALS **	31.000	40.000	9.(
Pa	ARTNU	MBER:	0000000	02	SPOKE			/	
00	0101	0001	000002		400.000	0.000	400.000	· \	
00	0102	0001	000005		800.000	0.000	800.000	· \	
00	0105	0001	000007		40.000	0.000	40.000	1	1
		00	0000002			** TOTALS **	1240.000	1240.000	<b>)</b> 0,0
Pa	ART NU	MBER:	0000000	03	REAR	AXLE			\
00	0102	0001	000003		10.000	0.000	10.000	I	\
		00	000003			** TOTALS **	10.000	10.000	<u> </u>
106 is o but no forgot to Issu	on the m ot listed H o issue it le it to ma	sales/wor anufactur here, som to manuf anufacturi on slide 5	ring floor lebody facturing. ing as	with a qt Issuing to m the onhan Qty of 0 b	y of -1. The M nfg will create d qty by +1. Th ased on stocki	vs into BOMs. If a BOM IRP will not create a Bi a stockroom record fo the WIP Variance Report room records and a W e Audit WIP Button will	uy action item. r -1 and increase t will show VMP IP qty of -1 from	The Partmast WP match the Stock Rou a user edited the F Gtys or issued a s order, did not receiv marked it as c	om WP QTY if Partmast WP sale or work ve it back and

Now run the Audit WIP Report a second time and check Correct WIP qtys (which will run *after* the report is being displayed). The report should now reflect the correct sales and work orders on the floor.

The quantity issued column contains the quantity of that part number issued to that sales/work order. The quantity returned column contains the quantity returned (as part of the finished assemblies). The correct WIP quantity (stockroom) contains the quantity issued - (minus) the quantity returned. The current WIP quantity represents the quantity in the inventory WIP quantity field. The variance is the difference between the stockroom module and inventory module.

Continue by confirming that you want to replace the current WIP quantities with the revised WIP quantities.

		w	IP VARIAN			ces after the report	is run.
DATE: 1	1/30/201	6 05:07:55 PM				,	
50\WO#	# ITEM	STOCK TRANS #	QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	VA
PARTINU	JMBER:	000000001	BE AR IN G	, 3" OD x 1" ID			
000102	0001	000004	20.000	0.000	20.000		
000105	0001	000006	1.000	0.000	1.000		
	00	0000001		** TOTALS **	21.000	30.000	
PARTINU	JMBER:	000000002	SPOKE				
000102	0001	000005	800.000	0.000	800.000		
000105	0001	000007	40.000	0.000	40.000		
	00	0000002		** TOTALS **	840.000	840.000	
PARTINU	JMBER:	00000003	REAR AXI	LE			
000102	0001	000003	10.000	0.000	10.000		
000106	0001	000010	1.000	0.000	1.000		
	00	0000003		** TOTALS **	11.000	11.000	
PARTINU	JMBER:	000000010	WHEEL A	SSY			
000106	0001	000011	2.000	0.000	2.000		
	00	0000010		** TOTALS ** <sup>*</sup>	2.000	2.000	



Run the Audit WIP Report a third time if you want to see the results of the WIP quantity corrections. At this point there will be no variances.

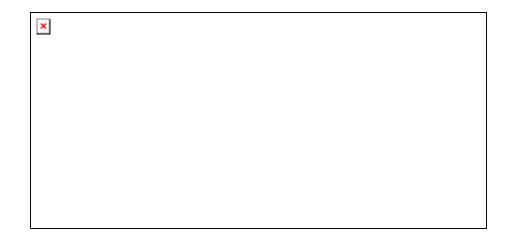
int Print I	Preview	▶ ▶   100%	• • 5			nast WIP Qtys now r Stockroom WIP Qtys	
DATE: 1	.1/30/201	6 05:26:01 PM	IP VARIAN	ICE REPO	RT (WIPV	AR.FRX)	P/ W
50\WO#	# ITEM	STOCK TRANS #	QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	VAR
PARTNU	JMBER:	000000001	BE AR IN G	, 3" OD x 1" ID			
000102	0001	000004	20.000	0.000	20.000		
000105	0001	000006	1.000	0.000	1.000		
	00	0000001		** TOTALS **	21.000	21.000	
PART NU	JMBER:	000000002	SPOKE				
000102	0001	000005	800.000	0.000	800.000		
000105	0001	000007	40.000	0.000	40.000		
	00	0000002		** TOTALS **	840.000	840.000	
PART NU	JMBER:	00000003	REAR AXL	E			
000102	0001	000003	10.000	0.000	10.000		
000106	0001	000010	1.000	0.000	1.000		
	00	0000003		** TOTALS **	11.000	11.000	
PART NU	JMBER:	00000010	WHEEL AS	5SY			
000106	0001	000011	2.000	0.000	2.000		
	00	0000010		** TOTALS **	2.000	2.000	

# 5.1.15 Index (see 15.14.3)

Note: This will also reindex the database tables holding the vendor price/quantity breaks and the sale prices.

# 5.1.16 Remove Marked Records (see 15.14.4)

**Note:** This will also remove marked records from the database tables containing the vendor price/quantity breaks and the sale prices.



# 5.2 pc/MRP Inventory Flow Model

## 5.2.1 Inventory Flow Model

The inventory flow model described below requires the Inventory Adjustment Method (select Config, Settings & Utilities, Option 4) be set to 'A'.

pc/MRP's inventory control flow model can be explained using a company that builds bicycles as an example. Let's assume the bicycle company has 100 completed bicycles and 600 pedals on hand and has just received an order for 500 bicycles.

Sales would enter a sales order for 500 bicycle assemblies as a sales order entry. Entering the sale as an order entry will cause the bicycle on demand quantity in inventory to be increased by 500. Please note that the quantity on demand did not increase for the individual parts that go into the bicycles (this is handled later by the purchasing consolidation report). Also note, if the sale had been entered as a "cash and carry" or "on account and carry" sale, pc/MRP would have automatically created an invoice as well, and would have decreased the on hand quantity of the bicycle in inventory by 500 (as if the bicycles would have then been carried out of the plant).

Purchasing should run pc/MRP's purchasing consolidation report or pc/MRP's Infinite Bucket report on a daily or weekly basis to find out what parts need to be ordered. This program breaks the open sales order on demand quantities down into parts required to be ordered using the quantity available field in the partmaster. If there are not enough finished assemblies, sub-assemblies, and parts on order, the consolidation report will request purchasing to order the necessary parts to fill the open sales orders using the quantity available field in inventory to track the quantity available. In this case, the pedals quantity on hand field will still show 600 but the quantity available field will show -200 pedals on hand. The consolidation report listing all part numbers with negative quantity available fields will list 200 pedals required to be ordered.

Purchasing would then enter a purchase order for 200 pedals, which would increment the on order quantity of the pedals.

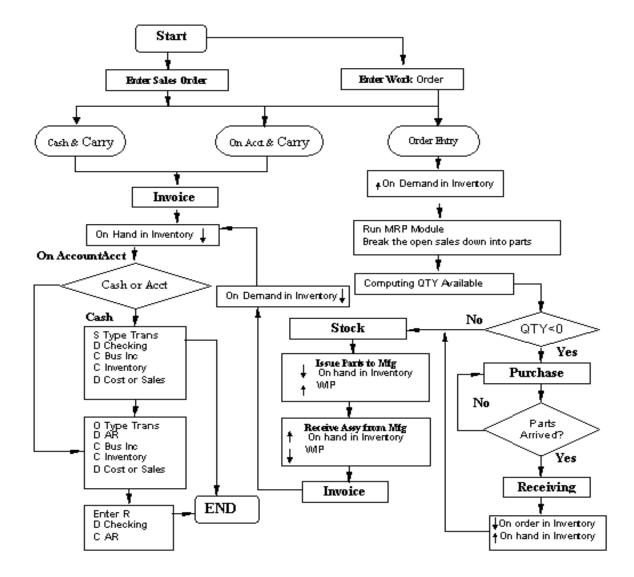
Receiving would enter a receiver for the 200 pedals when they arrive. This would decrease the on order quantity and increase the on hand quantity of the pedals in inventory by 200 giving a new on hand quantity of 800 pedals. This will be enough to build 400 bicycles in addition to the 100 finished bicycles on hand.

The Stock Room Module is used to build the assemblies from the parts, by either issuing parts to manufacturing and then receive assemblies from manufacturing (2 steps, recommended) or converting parts to assemblies (1 step).

The first method, issuing "I"- and "R"-type stockroom transactions, decrements the on hand quantity and increments the WIP quantity of the parts using a sales or work order number to track the parts issued. When the assemblies are completed and received from manufacturing, this option decrements all parts issued to that work order number from WIP and the on hand quantity of the finished assemblies are incremented. This method is recommended, as pc/MRP will be able to carry shortages, and you can keep your inventory quantities straight.

The second method, "Convert parts to assemblies", does not use WIP or work order numbers. Instead, it uses the BOM to convert parts to assemblies (decrementing the on hand quantity of the parts and incrementing the on hand quantity of the assemblies).

An invoice would be entered when the bicycles are ready to ship, which would decrement the quantity on demand for the bicycle assemblies by 500.



# 5.2.3 Examples

# 5.2.3.1 First example

In this first, simple example we have a BOM named "ASSY" that consists of one part named "PART". We have a Sales Order for 100 ASSYSs. To make it simple, this is the only Sales Order we have for ASSY, there are no open purchase orders for PART, and both PART and ASSY have a quantity of 0 in inventory. The yellow highlighting indicates a change in the value.

At the beginning (START), OnHand, OnOrder, OnDemand, MRP Available and WIP quantities are all 0.

		START	SO	IB	PO	REC	ISS	REC MFG	INV
	OH	0	0	0	0	0	0	100	0
	00	0	0	0	0	0	0	0	0
ASSY	OD	0	100	100	100	100	100	100	0
	MRP	0	0	-100	-100	-100	-100	0	0
	WIP	0	0	0	0	0	0	0	0
	OH	0	0	0	0	100	0	0	0
1	00	0	0	0	100	0	0	0	0
PART	OD	0	0	0	0	0	0	0	0
	MRP	0	0	-100	0	0	0	0	0
	WIP	0	0	0	0	0	100	0	0

As we enter the Sales Order (SO) OD for the ASSY increases by 100. Please note that the PART's OD quantity does not change, as the OD quantity is derived from open Sales Orders and open Work Orders.

Next we run the Infinite Bucket MRP or the MRP Buy Report. MRP available (MRP) will be -100 for the ASSY (because we need to build 100) and also for the PART (because we need to purchase 100).

When we enter a Purchase Order for 100 PARTs, OO will get the value of 100, as that's how many we have on order. MRP Available is no longer negative, since right now there is nothing to do with the PART, the order is on its way. Note that none of the values for the ASSY change.

Now we receive 100 PARTs. OO becomes 0 and OH gets 100, as the parts are now in inventory. Note that none of the values for the ASSY change.

Next, issue the Sales Order to Manufacturing. The 100 PARTS are picked from the shelf and carried down to the manufacturing floor. OH becomes 0, WIP qty will be 100. Note that none of the values for the ASSY change.

When Manufacturing finished the job, we receive the ASSY back from MFG. OH for the ASSY will increase to 100, and MRP Available is no longer negative, since right now we don't need to build any more ASSYs. WIP quantity for the PART becomes 0, as there are no parts on the manufacturing floor.

Finally we invoice 100 ASSYs. OH for the ASSY goes down to 0 as we ship the ASSY, OD will be 0 since there is no longer demand from the customer. All quantities remain 0 for the PART.

# 5.2.3.2 Second example

This example is a little more complicated. We are using the situation for Section 5.2.1 above. We still have only one Sales Order for the assembly, but both the assembly and the part have starting onhand quantities. One assembly (bicycle) calls for two parts (pedal).

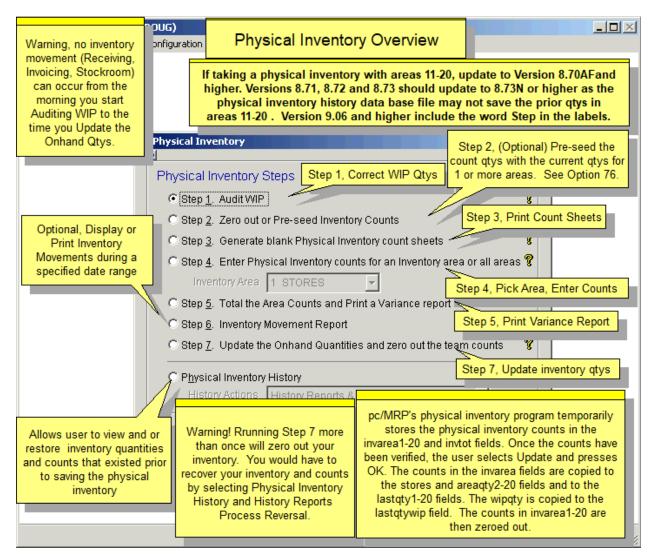
	OVERVIEW											
		START	Create Sales Order for BICYCLE	Run IB	Create Purchase Order for PEDAL	Create Receiver	lssue to mfg	Receive from mfg	Create Invoice			
	On Hand	100	100	100	100	100	100	500	0			
	On Order	0	0	0	0	0	0	0	0			
BICYCLE	On Demand	0	500	500	500	500	500	500	0			
	MRP Available	0	0	-400	-400	-400	-400	0	0			
	WIP	0	0	0	0	0	0	0	0			
	On Hand	600	600	600	600	800	0	0	0			
	On Order	0	0	0	200	0	0	0	0			
PEDAL	On Demand	0	0	0	0	0	0	0	0			
	MRP Available	0	0	-200	0	0	0	0	0			
	WIP	0	0	0	0	0	800	0	0			

# **6** Physical Inventory and Cycle Count

## 6.1 Physical Inventory

## 6.1.1 Overview

Select Inventory, Physical Inventory.



**Important warning:** <u>No inventory movement</u> (Receiving, Invoicing, Stockroom) can occur from the morning you start Auditing WIP to the time you Update the Onhand Otys. Technically, you don't need an administrative lockout during the entire process (several users can enter counts and run the variance report) but it is a good idea to set an admin lock before doing the last step, Update Quantities.

#### The first step must be Audit WIP.

pc/MRP's physical inventory program temporarily stores the physical inventory counts in the invarea1-20 and invtot fields. Once the counts have been verified, the user selects Update and presses OK. The counts are then moved from the invarea fields to the stores and areaqty2-20 fields, and also into the lastqty1-20 and the lastqtywip fields. The counts in invarea1-20 are then zeroed out. **Note:** The Inventory Movement Report will use the lastqty data as a base to its calculations.

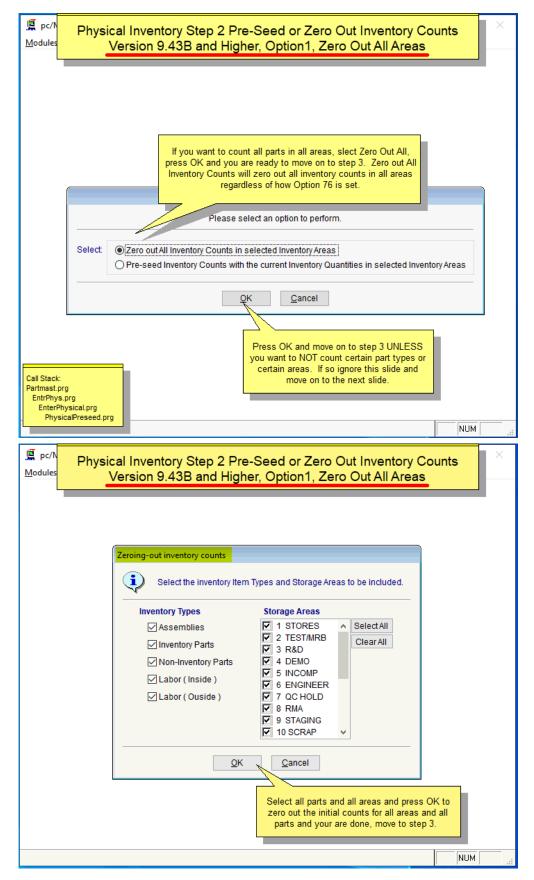
## 6.1.2 Audit WIP

If you have any Work In Process on the manufacturing floor you must make sure the WIP quantities in pc/MRP's Inventory Module are correct before Entering Physical Inventory Counts for your stores areas. WIP quantities should be corrected by running the Audit WIP Function. See **Chapter 5.1.13** for instructions and an overview of this function. Quantities on the Floor will not be counted, because the Audit WIP takes care of them. (See on-line slide show at: <u>http://www.pcmrp.com/mrp101/auditwiprun.htm</u>)

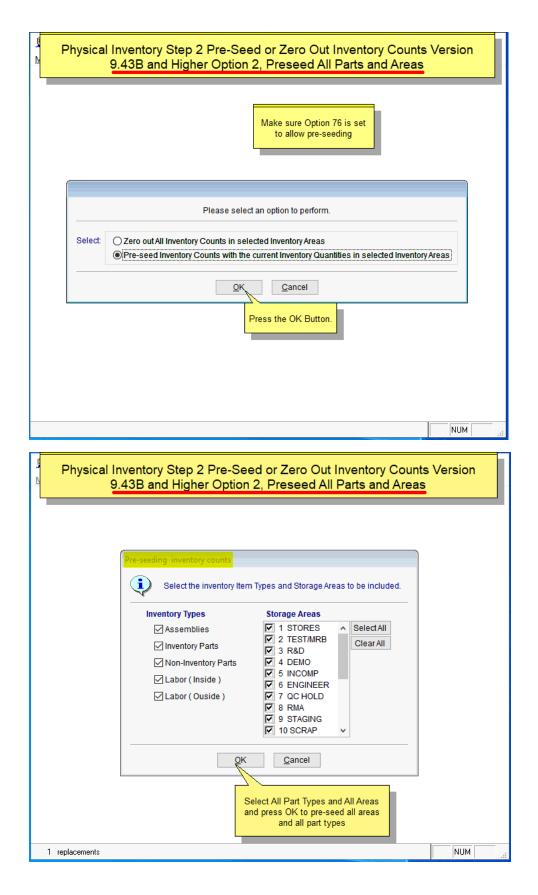
## 6.1.3.0 Pre-seed or Zero out inventory counts Overview

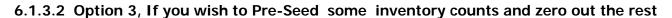
Dec/MRP for W	Physical Inventory Step 2 Pre-Seed or Zero Out Inventory Counts Overview Version 9.43B and Higher	
	Step 2. Companies can:         1. Zero out the counts for all areas and part types         2. Preseed the counts for all areas and part types         3. Preseed the counts for all areas, then zero out the areas types they wish to count.	eas and part
	Physical Inventory Ste	
	O Step <u>1</u> . Audit War ?	
	Step 2. Zero out or Pre-seed Inventory Counts	
	◯ Step <u>3</u> . Generate blank Physical Inventory count sheets	
	◯ Step 4. Enter Physical Inventory counts for an Inventory area or all areas 💡	
	Inventory Area 1 STORES V	
	◯ Step <u>5</u> . Total the Area Counts and Print a Variance report ?	
	○ Step <u>6</u> . Inventory Movement Report	
	○ Step <u>7</u> . Update the Onhand Quantities and zero out the team counts ?	
	O Physical Inventory History       ?         History Actions       History Reports & Process Reversal	
	<u>O</u> k <u>C</u> ancel	
and part types. Value report will	and auditors zero out the counts for all areas They then count everything. The Inventory continue to provide accounting with the total ventory for parts and assemblies only.	
		NUM

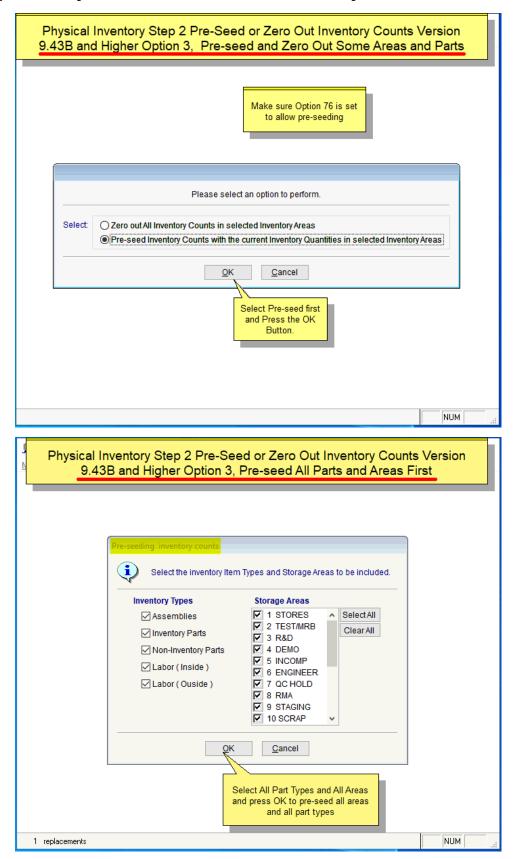
# 6.1.3.1 Option 1, If you only wish to Zero out all inventory counts

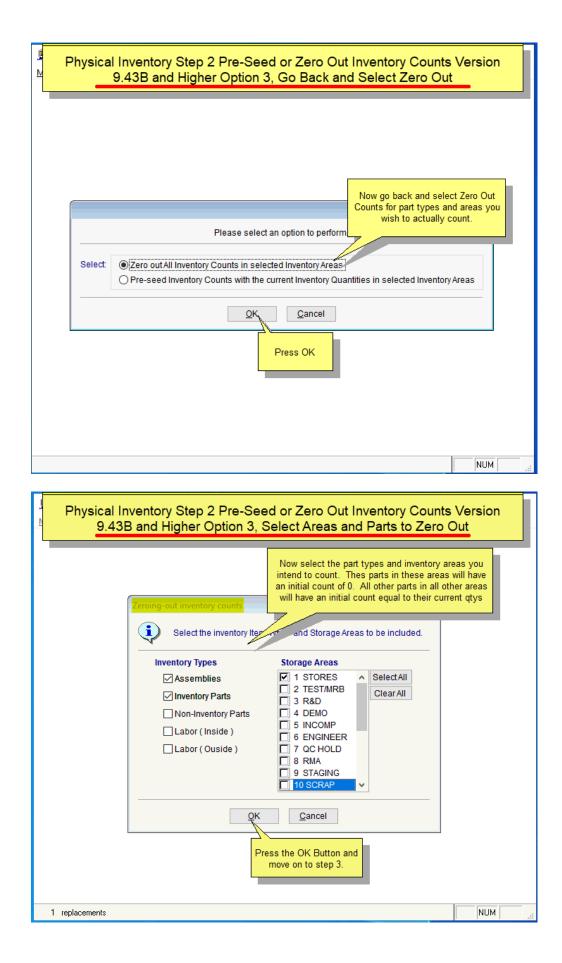


## 6.1.3.2 Option 2, If you wish to Pre-Seed all inventory counts









# 6.1.4 Generate Blank Physical Inventory Forms

This selection uses the partmast.dbf file to generate blank physical inventory forms (blankinv.frx) for inventory teams to take the inventory count. Generate as many blank Inventory Forms as there are inventory teams. You have the option to include or not include various types of parts on you count sheets.

The "Total the area counts and print out a variance report" option will total the count for each part number. It is important to note that WIP quantities should be corrected using the Audit WIP function (Section 5.1.14) prior to entering the physical inventory in stores.

FOX C:\V942 (Us Modules Tools Opt	Filys	ical Invento ount Sheet			Part Number	
9.42 Allows users to Audit Count, Re-Cour Initials, Re-count In	write in ht, Audit	2. Select the to print out a Version 9.42	Area(s) you w count sheet fo 2B allows you unt sheet for c	rish pr. to	Tag Number Divsion Location + Part Nu Area + Location +	
1. Se	elect the type arts you want to count.	or more stor	res areas sorte nd or Location.	Sort Repo	action + Dort Numt	Display Print PDF
Include Inventory Parts	Are S	1 STORES	∧ <u>A</u> ll			
Assembly	Parts	2 TEST/MRB 3 R&D 4 DEMO	Clear	Send Rep Display	ort to	
Labor Parts		5 INCOMP 6 ENGINEER				-
Obsolete Item Deleted Parts Obsolete Approximately and the section of the sectio		7 QC HOLD 8 RMA 9 STAGING		Report Ty	pe dard OCustom	
	lect None	10 SCRAP 11 RESERVED		CBLNKIN	/.FRX	
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items from counting counts in step 2.	, you MUST prese	ed inventory ts for those	EntrPhys.prg EnterPhysica PnOption =		reports must CBLNKIN	
			DOTORM	PhycycleRpt		NUM .
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## 6.1.5 Enter Physical Inventory Count

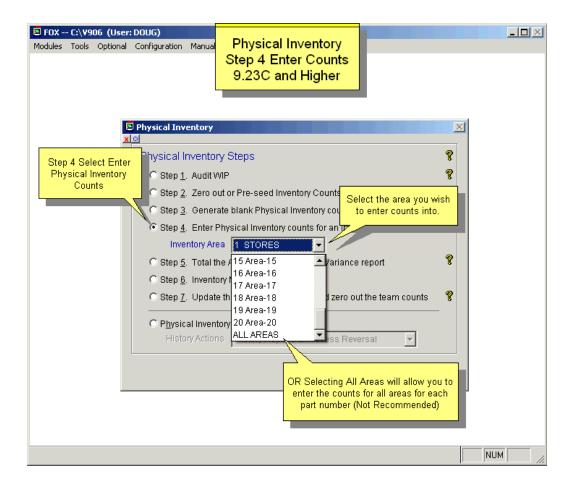
This function allows users to enter the count from each area into the inventory's physical inventory fields (**invarea1-invarea20**), without altering or disturbing your present inventory (**onhand**, **area2qty-area20qty**). The counts for each area may be entered manually or imported from a comma delimited ASCII file (.csv). **Note:** You don't count WIP. The WIP quantities have been taken care of with the Audit WIP function. Select "Enter Physical Inventory Counts" and select and inventory area or All areas. You can Enter your counts manually or you can Import from a file.

If you select **Manual Entry**, it is a good idea to sequence the entry the same way the count sheets were sequenced. Select a part, then enter the Quantity counted (and Tag number if desired) and click Enter. The temporary team counts will be saved in pc/MRP. Repeat the above steps for each part number, then for each inventory area that the company uses. If you need to make changes in your counts, select the part number and enter the revised count. If you want to overwrite the previous cont, select Enter. If you want to Add the additional quantity to the previous count, select Add. You <u>must</u> count each inventory area before updating inventory with the team counts.

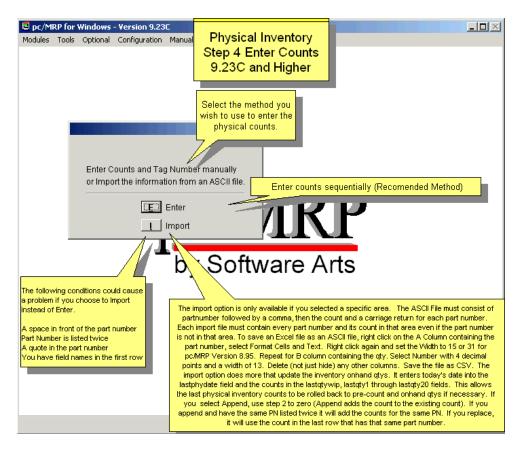
(**Example**: You entered count 5 for part# 100738, Shock absorber. Then someone finds 2 more shock absorbers. You need to revise your counts: you will either type 7 and click Enter, or type 2 and click Add.)

pc/MRP allows the entry of one area at a time or all areas as noted in the following screens:

#### One Area:

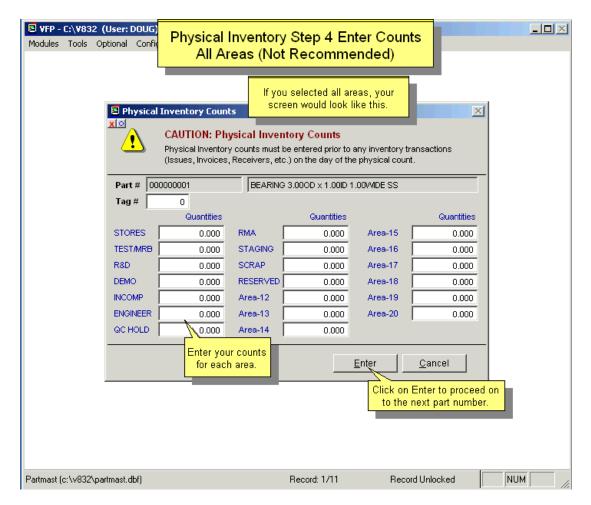


#### Select Enter:



#### Enter Counts:

Dec/MRP for Windows - Ver Modules Tools Optional Cor Area you are entering counts for Physical Inventory For	figurati Sort By: Part Number Location Division	Counts \			Higher	Enter or Add to your counts
Sort Part By Part Number	Find Pa	art No			Entry Method	Add
Part#	, 	escription	Area Qty	Enter Count	Location	<u>^</u>
00000001	BEARING, 3	" OD x 1" ID	5.000	20.000		
00000002	SPOKE		0.000	90.000		
00000003	REAR AXLE		5.000	90.000		
00000004	NUT		10.000	90.000		
000000010	WHEEL AS:	SY	5.000	5.000	Enter your	
000000011	REAR WHE	EL AXLE ASSY	0.000	5.000	counts	
000000012	PAPER OFF	ICE SUPPLY(NonIn	5.000	90.000	/	
▶000000013	LABOR INS	IDE	5.000			
000000014	LABOR OU	TSIDE	5.000	0.000		
00000015	RENT INCO	ME (Inside Labor)	1.000	0.000		
000000016	RENT EXPE	NSE (Outside Labo	1.000	0.000	Save y	your
Show Tag Number Show Location Show Division	Multiple people ca the same area. E pc/MRP will war counts, that anot sa	But not for the sa m the second pe	ame part numb erson to save h red counts for	oers. nis Save/j	Exit <u>C</u> ar	
Show Additional Columns	pc/MRP Versions enter all your cour pc/MRP Versions	its for one area (	on one screen er allow you to		Call Stack: Partmast.prg EntrPhys.pr EnterPhys Do Form	
Partcountcursor	display the Eco	and Divisio	in columns	Exclusive		



#### Import Counts (Not Recommended):

If you select to **Import** the counts from a .csv file, you need to upload counts to each area separately; pc/MRP will not offer to select All areas. The source **.CSV** file must have the part number and quantity as the first two data elements within the file (each line structure must be: part number 'comma' quantity & a carriage return). Any additional data elements are ignored. The file must contain every part number that exists in your inventory; otherwise that part will get a quantity of 0. You can avoid this by using the Preseed function. Users could create an inventory report, all parts uncosted (both inventory parts and assemblies only), then send the report to Excel. To select the fields for the report, click Select None, then check only the PartNo field. This will create a list of all parts, as the first column of an Excel sheet. The first row ("partno") needs to be deleted. The second column should be filled out with the inventory counts (blank means 0). Next, the file needs to be saved as a .csv file. It is a good practice to open the new .csv file with Notepad (not Excel). The Notepad view is the closest to how pc/MRP will see the file. Check if Excel changed any numeric part numbers, e.g 00000718 to 718. The number 00000718 and the number 718 are the same for Excel. But pc/MRP will not consider the characters 718 as a match for the characters 00000718 and will not import the count for that part. Changing the part number column to text could prevent Excel from changing your part numbers.

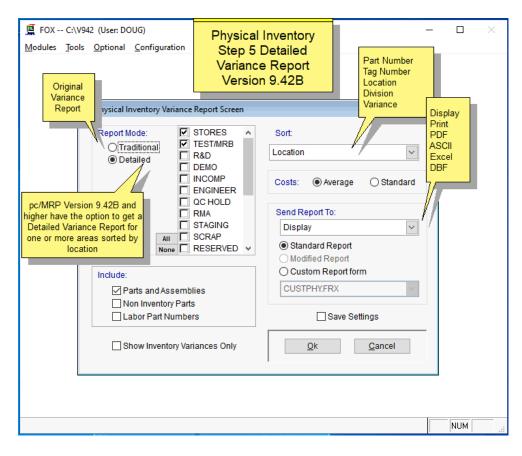
If you select to import your physical inventory counts from an ASCII file, counts for only the part numbers in the list will be appended (added to the existing count) or replaced (replacing the existing count). The other part numbers and other areas will not be affected. (pc/MRP uses ldtxtqty.prg to import the inventory counts.) The following conditions can cause a problem, and are often hard to trace: A space in front of the part number; Part number listed twice; A quote (") in the part number; Field names in the first row. Please note that if errors occur, you should print the report. The error import counts will still be replaced or appended as you selected.

Please see Chapter 16.4.3 & 4 to create ASCII files using a Barcode reader. If you select to enter the counts manually, pc/MRP will prompt you to enter the counts in the order you selected (by part number or by location). In either case, the counts are entered into the inventory invarea1 through invarea20 fields. pc/MRP will allow you to add or enter (replace) the current count for that part number.

<b>FOX C:\Y906 (User: DOUG)</b> Modules Tools Optional Configuratic	Manua Physical Inventory Step 5 Variance Report	
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		NUM

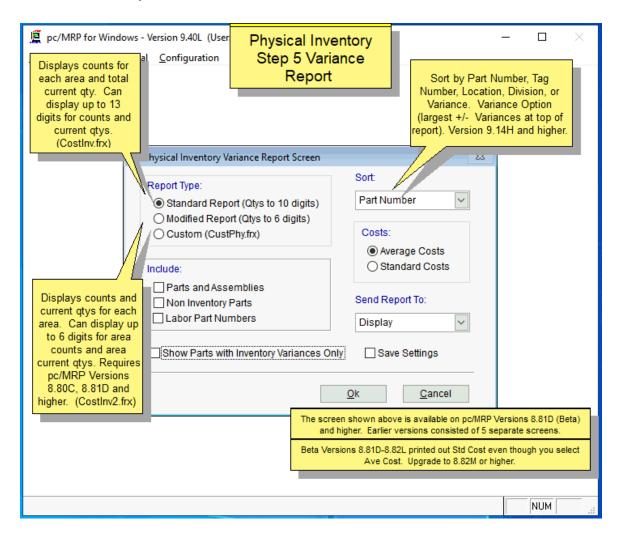
# 6.1.6 Total the Area Counts and Print a Variance Report

#### **Detailed Variance Report:**



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Print Preview		Primary Database Fi Child DataBase Fil			Count Qty Variance Q pc/MRP Va Count Valu Variance V	Aty alue /alue	
Partcount		Record: EOF	/14	Excl	usive	NU	

#### **Traditional Variance Report:**



This report (costinv.frx) sums the area counts (invarea1-invarea20) and places the totals into the inventory **invtot** field. It also sums the current quantities (onhand, area2qty-area20qty) and places the total into the inventory **prevqty** field. This report allows you to compare the current counts with the current quantity in inventory.

**Note:** The report can be modified to show the six digit numeric field TagNumber.

This report is designed to help locate any abnormal deviations in individual stocking levels and provide a dollar value for the physical inventory count with sub-totals by product type. **Once this report has been approved as to its accuracy THEN AND ONLY THEN should you run the option "Update The Onhand Quantity And Zero Out The Team Counts".** If you do not run this report before updating the onhand quantities, no damage will be done. However, you will miss your chance to compare your pc/MRP's on hand quantities.

The deviation values represent the difference in dollars and quantity that pc/MRP calculates you should have as compared to the audit's count. These deviation figures would only be accurate if you had used all of pc/MRP's modules (Invoice, Receiving, Purchasing, Stock Transaction, and Sales) and the previous physical inventory had been accurately taken with pc/MRP. If you do not use the Receiving and Stock Transaction Modules, which adjust the Onhand Quantities, the deviation values represent the change in quantity and value of each part number from the last physical inventory. We recommend not including WIP with this function.

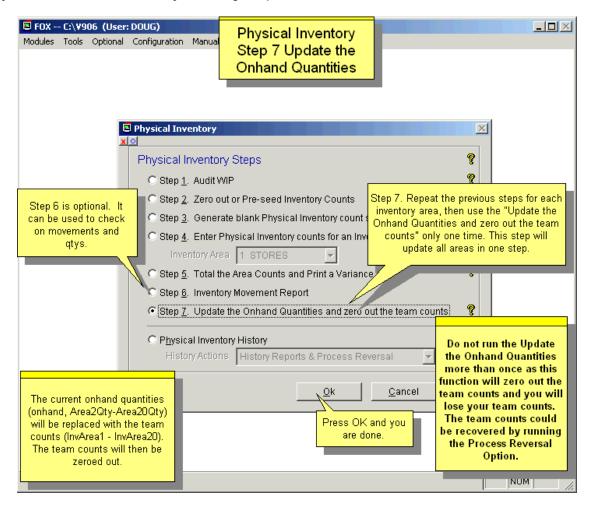
Users can select between **Standard**, **Modified** and **Custom** variance reports. The standard report displays counts for each area and total quantity, up to 13 digits for each (CostInv.frx). The modified report displays counts and current quantities for each area, up to 6 digits for each (CostInv2.frx). The following images show an example for both reports.

Users can **Include** Parts and Assemblies and/or Non Inventory Parts and/or Labor Part Number. They can **Send** the report to Display, Print, PDF, ASCII, Excel, DBF or HTML.

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# 6.1.7 Update the Onhand Quantities and Zero Out the Team Counts

Replaces the present onhand inventory quantities (**onhand**, **area2qty-area2Oqty**) with the new count from the physical inventory count (**invarea1-invarea20**). It stores the count in the **lastqty1-lastqty20** fields and zeros out the inventory count fields (invarea1-invarea20) for the next count. This should be done only after the "Total the Area Counts and Print Variance Report" option has been run and approved. One last time, we recommend not including WIP with this function as WIP counts were corrected using the Audit WIP function. The Update option will only run if the user has inventory delete rights (provided the Password Module has been activated).



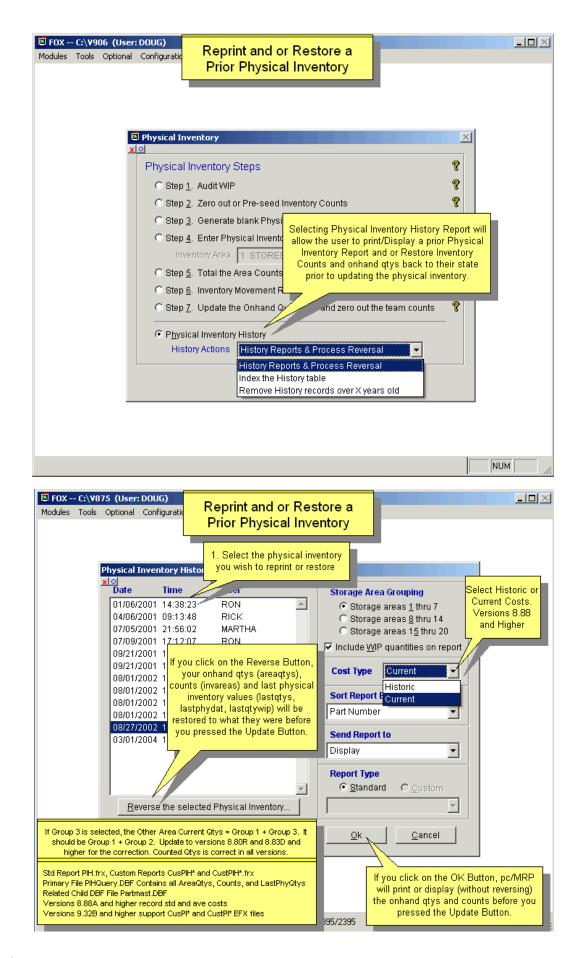
## 6.1.8 The Inventory Movement Report (parmovp.frx, movement.dbf)

The inventory movement report will list all inventory movements during a specified period based on the last physical inventory count, receivers, issues, adjustments, and invoiced sales orders. The report will compare the theoretical count with the physical inventory count. pc/MRP will provide the correct starting and ending balances after you have taken a physical inventory or the starting date for the partnumber was earlier than the beginning date on the inventory movement report. With this report you should check the include WIP check box.

## 6.1.9 Physical Inventory History

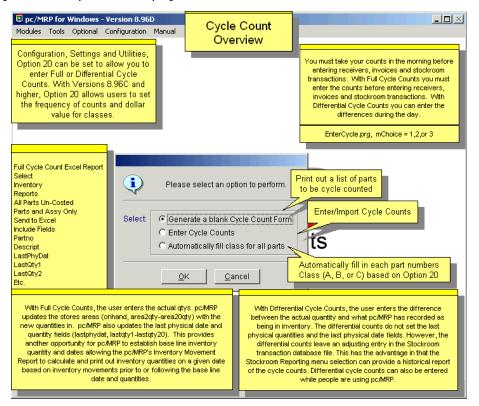
Selecting History Reports & Process Reversal will display all prior physical inventories. You can then display, print, and/or restore past physical inventories. This option will restore the last physical inventory quantities, date, team counts, and areas 1-20 quantities as they were just prior to when you pressed "Update the OnHand Oty and Zero out the Team Count". It will not change WIP quantities. If existing part numbers no longer exist after restoring, pc/MRP will give you an error message and add the part numbers without any quantities.

This option is great for restoring a physical inventory count if you accidentally have hit the U button twice and deleted your inventory and team counts.



# 6.2 Cycle Count

Selecting the Cycle Count Option will display the screen below:



To determine the settings behind the Cycle Count, use Configuration, **Option 20**. The rest of this chapter explains all these settings and describes the Cycle Count process. When you click Ok, the CC Method and Frequency will be set. You still need to run the "Automatically Fill Class Fields for All Parts" utility. See section 6.2.3 below.

Stockroom Purchase Order	ings 0 to ngs Description DF and HTML file ge 20 Cycle Cor tion 20 In this e	xample we will method to Full		classes are dete Inventory Module fill class for all	's "Automatically parts" Option is 1 to define days re added to to
	er © Full Da	ault Values are shown Days, 60 Days, 120 lys, \$5.00, \$200.00, and \$0.50 User can set C Frequencies and	Class B Class C	120 4 20 4 60 4 120 4 120 4	iccess rights
With Differential Cycle Counts you record the difference between the actual count and the qty pc/MRP will create adjusting stock room transactions and set the onhand qtys. With Full Cycle Counts pc/MRP will update the last physical inventory date and qty and set the onhand qtys	Class A: Average Unit Cost >= OR	5.000000 Jitiply by the Quantity U 0.500000 0.500000 Becord: 17	The optiona can study the the weekly u	1000.000000 al Sales Analysis I spast and automa sage for every part <u>C</u> ancel lusive	Module tically fill

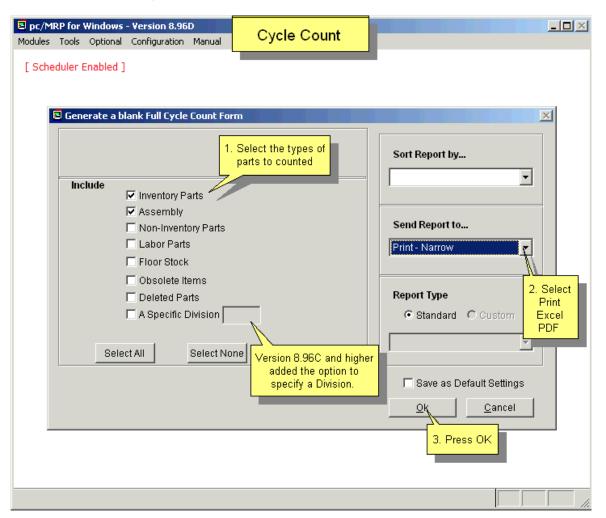
# 6.2.1 Generate Blank Cycle Count Forms

Items in your Inventory can be assigned one of 4 Class values: A, B, C or none. You can use Configuration, **Option 20** to set how often (in days) items in each class should be counted. The defaults are: A-20, B-60, C-120. The following description will <u>assume that you have the default settings</u>.

The blank cycle count form will contain 1 twentieth (1/20) of all the class A parts, 1/60 of all the class B parts, and 1/120 of all the class C parts. The above figures were derived from 20 working days/month, 60 working days per quarter, and 120 working days per 1/2 year. The second time the form is printed it will contain the second set of class A, B, C parts. In this manner, all class A parts will be inventoried at least once a month, all class B parts once a quarter, all C parts twice a year. If you have less than 20 class A part numbers, some of the cycle counts may not contain any class A part numbers. For example if you had 3 class A part numbers, the first 3 cycle counts would display one class A to be counted. The remaining cycle counts would be blank until you got to the 21<sup>st</sup> cycle count, which would display the first class A part number. Parts that do not have an "A", "B", or "C" in the class field will be ignored. Settings & Utilities, **Option 64** sets the default Class for new parts. Therefore, to not include labor parts, you must change the class of this labor item, or temporarily remove the default Class code.

Blank cycle count forms can be displayed, printed, or sent to PDF or Excel. You can select which type of inventory items you want to include or exclude: parts, assemblies, floor stock, etc. You can select to only include parts of a specific division.

**Note:** A part number may occur on consecutive cycle count forms, or may be skipped if there are changes in the number of items in the inventory database.



Modules	IRP for Windows - Version 6         Tools       Optional       Configurat         It Preview - CYCLECNT.FRX	Eull Cycle Count
DATE:	11/06/2015 02:39:06 PM	Print Preview     X     Case A Cycle Court Position = 2 of 20       I     I     I     I     I       I     I     I     I     I
CLAS	S PART NUMBER	DESCRIPTION LOCATE
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A A A A • •	08-005559-001R 080-904883-1 080-904883-2 080-904884 089-904884 089597 c:\pcmrpw896\cyctmp.dbf)	RAW*IC MCU AVR FLASH 128K       Primary Database File: CYCTMP         TechEn Harwin Cable Assy       Child DataBase File: PARTMAST         TechEn Harwin Cable Assy       Standard Form: CycleCnt.frx         TechEn Harwin Cable Assy       Custom Form: CustCyc*.frx         Waters Sprth. SImr. no Rohs read.       Program: EnterCycle.Prg         Ver 9.36F and higher       Can work with an EFX file.

A COLUMN	oc/MRP for Windows Iules Tools Optional	Differential C	Cycle Count
	Print Preview - CYCLI		
	11/12/2015 11:38:23 AM	DIFFERENTIAL	L CYCLE COUNT FOR M Cross Cross Gene Data Crack Constitution - 5470 Gene Crack Constitution - 5470 Gene Crack Constitution - 5470
1.655	PART NUMBER	DESCRIPTION UN	NUT AREA LOOATE POMARP QTY QTY COUNTED DUF
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A	210000879	Waters Untested (90) Tesia RoHS	STORES +/
٩	210000886	Waters' AC 50, Drv. RoHS	STORES PC/MRP'S 0.000
٩	210000887	Waters THAR Hir. Cnt. RoHS	stores Pencil in your counts and
A	210000907	Waters Fan Benier RoH5	STORES differences
A	210000951	Waters CV CPU3000 Test RoHS	जा ाह्य If the Frequency in days set in Option 2D is
n	21005398120	Waters 4LOR CPU no Rohs regid	ा greater than the number of parts for that class,
٩	22-1781-01E	POB INSTANT PRICE DISPLAY CONTR LVM	towards the end of the cycle, the report will towards the end of the cycle, the towards the towa
A	22-1782-01E	PCB INSTANT PRICE DISPLAY LED LYM r	πes Primary Database File: CYCTMP
A	ZZ-1784-01E	PCB LCD/TOUCH INTERFACE LYMray A	sto Child DataBase File: PARTMAST ™S Standard Form: CycleDiffCnt.frx
۹	22-1785-01E	POB SCSI BREAK OUT LVM NOV A	ភា Custom Form: CustCyc*.frx
╘			Ver 9.36F and higher
Cyct	mp (c:\pcmrpw896\cycti	mp.dbf) Rec	Can work with an EFX file.

# 6.2.2 Enter Cycle Counts

## Full Cycle Counts

Allows users to rapidly enter the cycle counts into the inventory ONHAND QUANTITY field for each part number counted. The counts may be entered **manually**, in this case you can enter the count for each part number for all areas in one screen. The counts may also be **imported** from CSV files; in this case you will need to import each inventory area separately. pc/MRP will prompt you to select the area when uploading. The ASCII file must have the part number and quantity (in that area) as the first two data elements within the file. Any additional data elements will be ignored. Please see Chapter 16.4.3 to create the import files using a Barcode reader.

pc/MRP updates the stores areas (onhand, area2qty-area20qty) with the new quantities in. In addition, pc/MRP also updates the last physical inventory date and quantity fields (lastphydate, lastqty1-lastqty20), similar to the physical inventory program. This provides another opportunity for pc/MRP to establish base line inventory quantity and dates allowing the pc/MRP's Inventory Movement Report to calculate and print out inventory quantities on a given date based on inventory movements prior to or following the base line date and quantities. pc/MRP does not create stockroom transactions, again, similar to the physical inventory program.

**Note:** All inventory areas should be counted at the same time. (The Last PI/CC date for a given part will be updated after entering counts for that part, even if only one or some of the areas were counted.)

Epc/MRP for Win Modules Tools Op			Full Cy	cle Count			
[ Scheduler Enal	bled ]						
	🗧 Full Cycl	eFull Cycle Count	5			X	1
1. Enter your			t be entered pri	n <b>ts</b> or to any inventory ) on the day of the			
counts for this part number	art # \∨2	007-35∨R		SMT LED			
		Quantities		Quantities		Quantities	
	STORES	33.000	RMA	0.000	Area-15	0.000	
	TEST/MRB	5.000	STAGING	0.000	Area-16	0.000	
	R&D	0.000	SCRAP	0.000	Area-17	0.000	
	DEMO	0.000	RESERVED	0.000	Area-18	0.000	
		0.000	Area-12	0.000	Area-19	0.000	
	ENGINEER	0.000	Area-13	0.000	Area-20	0.000	
	QC HOLD	0.000	Area-14	0.000			_
				_!	Enter	<u>C</u> ancel	
			2. F	Press Enter			_
artmast (c:\pcmrpw8	96\partmast.db	of)		Record: 6039/286	86 Reco	rd Unlocked	

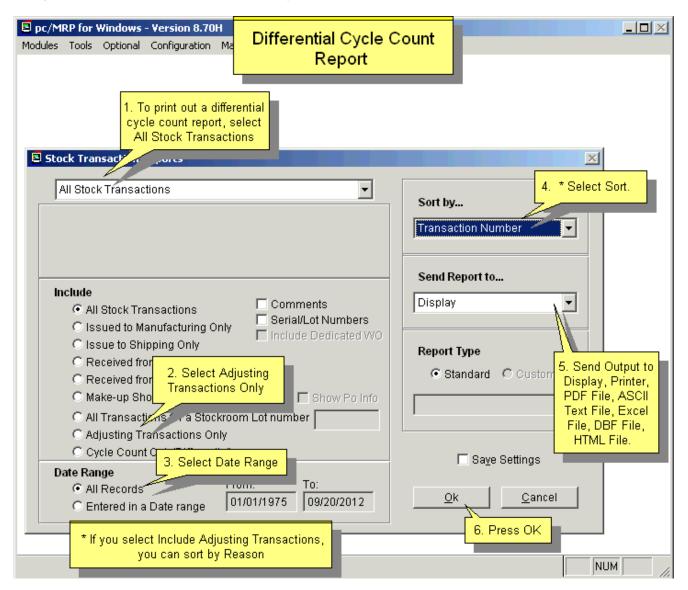
## **Differential Cycle Counts**

With Differential Cycle Counts, the user enters the <u>difference</u> between the actual quantity and what pc/MRP has recorded as being in inventory. Enter the difference as a positive or a negative number. The differential counts do not set the last physical quantities and the last physical date fields. However, the differential counts leave an adjusting entry in the Stockroom transaction database file. This has the advantage in that the Stockroom Reporting menu selection can provide a historical report of the cycle counts. Differential cycle counts can also be entered while people are using pc/MRP. Differential Cycle Counts can only be entered manually. Users don't need to count all inventory areas at the same time.

Disc/MRP for Win Modules Tools Op	ndows - Version 8.96 otional Configuration		oifferentia	l Cycle Cou	unt		
[ Scheduler Ena	bled ]						
	Differential Cyc	le Counts	5			×	
			<b>ifferential Cy</b> nce between pc	<b>/cle Counts</b> /MRP qty and the ci	ount quantity		
				the pc/MRP qty enter a pc/MRP qty enter a		у.	
				adjusting record an		d qty.	
	Part # 210000872			Waters Reh.Cbl.	Ext. RoHS		
	(	Quantities		Quantities		Quantities	
	STORES	2.000	RMA	0.000	Area-15	0.000	
	TEST/MRB	-2,000	STAGING	0.000	Area-16	0.000	
	R&D	0.000	SCRAP	0.000	Area-17	0.000	
		0.000	RESERVED	0.000	Area-18	0.000	
	1. Enter the	0.000	Area-12	0.000	Area-19	0.000	
	Differential Qtys	0.000	Area-13	0.000	Area-20	0.000	
	for this part	0.000	Area-14	0.000			
	number				Enter	Cancel	
					2. Pi	ress Enter	
Partmast (c:\pcmrpw8	396/partmast.dbf)			Record: 25913/28	3686 Reco	ord Unlocked	

# 6.2.3 Reports

Selecting Modules, Stockroom, Reports will display the screen shown below.



Selecting "Adjusting Transactions Only" and entering a date range will provide the report of adjusting transactions.

If you want to see details of a record, take note of the transaction number from the first column of the report. You then select Modules, Stockroom, Edit/View and enter the transaction number in the search field. The new screen will display details of the requested transaction such as adjusting quantity, transaction date, entered by, etc.

Stock Transaction Record - [ View Mode ]  Stock Transaction # 000003 Part Number 210000872 Rev A SalesWork Order # Description Waters Reh.Cbl. Ext. RoHS Receiver # Manufacturer Item # Model Number Related Document # Transaction Date 11/12/2015 Lot Number Debit Account # Unit Credit Account # II:48:36 Transaction Type RecFA Iypes Stock roanster (Stores to Alternate Area) ISTM: Stock Adjustment (Decreasing) ISTM: Stock Issue to Manufacturing ISTM: Stock Issue to Shipping	pc/MRP for Windows - Version Modules Tools Optional Configura Scheduler Enabled 1	Differential Cycle Count Record	If you were to edit one of the cycle count records, you would see the adjusting qty, date, Entered By Name, etc.
Sales/Work Order #       Description       Waters Reh.Cbl. Edt. RoHS         Receiver #       Manufacturer         Item #       Model Number         Related Document #	Stock Transaction Rec	cord - L View Mode J	
Receiver #       Manufacturer         Item #       Model Number         Related Document #       Item #         Transaction Date       11/12/2015         Division       Serial Number         Debit Account #       Unit         Credit Account #       Unit         Entered By       11:48:36         Transaction Type       RECFA         Types       Required Qty         Comments       Cycle Count         Stockroom Transaction Types       There will now be an Adjusting         ISSTA:       Stock Adjustment (Decreasing)         ISSTA:       Stock Adjustment (Decreasing)         ISSTA:       Stock Issue to Manufacturing	Stock Transaction #	000003 Part Number	210000872 Rev A
Item #       Model Number         Related Document #       Investigation Date         Transaction Date       11/12/2015         Division       Serial Number         Debit Account #       Unit         Credit Account #       Unit Cost         Entered By       11:48:36         Transaction Type       RECFA         Transaction Type       RECFA         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       Inventory Area         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       Invertice and adjusting         ISSTA:       Stock Adjustment (Decreasing)         ISSTB:       Stock Issue to Manufacturing         ISSTM:       Stock Issue to Manufacturing	Sales/Work Order#	Description	Waters Reh.Cbl. Ext. RoHS
Related Document #         Transaction Date         11/12/2015         Division         Debit Account #         Credit Account #         Entered By         11:48:36         Transaction Type         Record and the rest of	Receiver#	Manufacturer	
Transaction Date       11/12/2015       Lot Number         Division       Serial Number         Debit Account #       Unit         Credit Account #       Unit         Entered By       11:48:36         Transaction Type       RECFA         Transaction Type       RECFA         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       There will now be an Adjusting         ISSTM:       Stock Adjustment (Decreasing)         ISSTM:       Stock Issue to Manufacturing	ltem #	Model Number	
Division       Serial Number         Debit Account #       Unit         Credit Account #       Unit Cost         Entered By       11:48:36         Transaction Type       RECFA         Transaction Type       RECFA         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Types       There will now be an Adjusting         Stockroom Transaction Record       1/12/2015         STB:       Stock Transfer (Stores to Alternate Area)         ISSTM:       Stock Issue to Manufacturing	Related Document #		
Debit Account #        Unit         Credit Account #        Unit Cost       8.416722         Entered By       11:48:36       Inventory Area       STORES         Transaction Type       RECFA       Types       Required Qty       2.000         Comments       Cycle Count       Issued Qty       2.000         Stockroom Transaction Types       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTH:       Stock Issue to Manufacturing       Opened       Connect	Transaction Date	11/12/2015 Lot	Number
Credit Account #          Entered By       11:48:36         Transaction Type       RECFA         Inventory Area       STORES         Transaction Type       RECFA         Comments       Cycle Count         Stockroom Transaction Types       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.         ISSTR:       Stock Adjustment (Decreasing) ISSTR:       Stock Issue to Manufacturing	Division	Serial	Number
Credit Account #        Unit Cost       8.416722         Entered By       11:48:36       Inventory Area       STORES         Transaction Type       RECFA       Types       Required Qty       2.000         Comments       Cycle Count       Issued Qty       2.000         Stockroom Transaction Types       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTM:       Stock Issue to Manufacturing       OK       Connect	Debit Account #		Unit
Entered By       11:48:36       Inventory Area       STORES         Transaction Type       RECFA       Types       Required Qty       2.000         Issued Qty       2.000       Issued Qty       2.000         Comments       Cycle Count       There will now be an Adjusting       1/12/2015         Stockroom Transaction Types       ISSTA:       Stock Adjustment (Decreasing)       Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTM:       Stock Issue to Manufacturing       Ok       Concel	Credit Account #		Jnit Cost 8,416722
Comments       Cycle Count         Stockroom Transaction Types       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.         ISSTA:       Stock Adjustment (Decreasing) ISSTB:       Stock Transfer (Stores to Alternate Area) ISSTM:       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.	Entered By	11:48:36 Invent	
Comments       Cycle Count         Stockroom Transaction Types       There will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTA:       Stock Adjustment (Decreasing) ISSTB:       Stock Transfer (Stores to Alternate Area) ISSTM:       OK	Transaction Type	RECFA Types Requ	uired Qty 2.000
Stockroom Transaction Types       Intere will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTA:       Stock Transfer (Stores to Alternate Area) ISSTM:       Stock Issue to Manufacturing       1/12/2015			sued Qty
Stockroom Transaction Types       Intere will now be an Adjusting Stockroom Transaction Record for every differential adjustment entered.       1/12/2015         ISSTA:       Stock Transfer (Stores to Alternate Area) ISSTM:       Stock Issue to Manufacturing       1/12/2015	0		
ISSTA: Stock Adjustment (Decreasing) ISSTB: Stock Transfer (Stores to Alternate Area) ISSTM: Stock Issue to Manufacturing		I There will	
ISSTA: Stock Adjustment (Decreasing) ISSTB: Stock Transfer (Stores to Alternate Area) ISSTM: Stock Issue to Manufacturing	Stockfoon mansaction rypes		
ISSTM: Stock Issue to Manufacturing		nent (Decreasing)	
ISSTS: Stock Issue to Shipping			
	ISSTS: Stock Issue t	o Shipping	
RECFA: Stock Adjustment (Increasing)			
RECFB:         Stock Transfer (Alternate Area to Stores)           Stocktra (c:\pcmrpw896\stocktra.dbf)         Record: 3/4         Record Unlocked         2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/			Basard Uniaskad

# 6.2.4 Automatically Fill Class Fields for All Parts

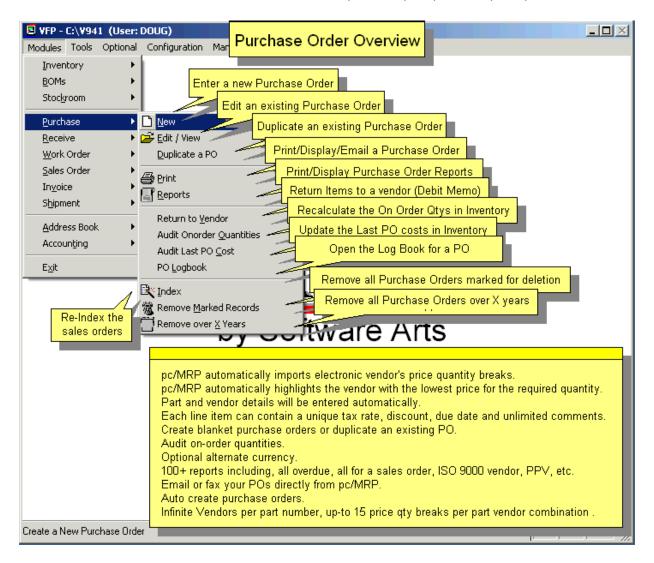
You can use **Option 20** to enter the dollar amount used per week to classify a part as a class **'A'** part, and the average cost values that determine the class of each part.

Selecting Automatically Fill Class Fields for All Parts here in the Cycle Count update the Class values in Inventory based on the rules you set in Option 20.

# 7 Purchasing Module

# 7.1 Overview

The Purchasing Module allows users to enter, edit and print out Purchase Orders and reports. In addition, reports can be sent to disk and POs can be emailed and or faxed directly from the PC. Address and part number information can be scrolled and imported from their respective modules. Entering a PO automatically increments the On Order quantity in the Inventory File, and updates the Last PO Cost for that part. Over 100 different reports can be generated including Consolidated Order Requirements, All Overdue Purchase Orders, All Purchase Orders for a Month, and Purchasing History Reports. Each Purchase Order can contain up to 9999 line items (settable via Settings & Utilities, **Option 63**). Each line item can be taxable or nontaxable, have its own due date and discount. An online slideshow is located here: <a href="http://www.pcmrp.com/mrp101/purchasenew.htm">http://www.pcmrp.com/mrp101/purchasenew.htm</a>



## 7.1.1 Enter a new purchase order step 1, select purchase, new

From the Main Menu, select "**Purchase**" and "New". The PO Data Entry Screen shown below will appear with the next available PO number and current Date. You can overwrite the PO number with your own PO number. pc/MRP can increment a PO number like 000623, or it can increment B99999 to C00000. However, we don't suggest that you use a PO number system that tries to put "meaning" into the PO#, like the buyer code or the date. It takes a long time for pc/MRP to figure out how to increment PO# P23APR. You can prevent the PO numbers from being edited with **Option 74** in Settings and Utilities.

# 7.1.2 Enter a new purchase order step 2, enter the quantity

oc/MRP auto inserts	/ersion 9.43D <u>C</u> onfiguration	Purcha	se Order	New		-
PO Number 000006 Date Ordered 01/26/202	Option 7 PO N	ation, Settings '4, can be set t umber from be beer	o prevent the		E CURRENCY	<u>B</u> ack <u>N</u> ext
Vendor Informatio		Shipping Inforn	Vendor Contact	Item Info		Items/Notes
Vendor Name	Cost Per Ur	nit can be set	PO Request #			ate currency is
City State / Zip Country Vendor Ph #	Vendor Price 42). In the la the Vendor empty, the	t PO Cost or e List (Option atest case, if Price List is std cost will used.	Related Doc DoD Rating Requestor		both the bas the altern prices. Req Alternate Cu WARNING, this setting a	PO will print out se currency and ate currency juires pc/MRP's urrency Module. do not change after the PO has ed as it is now a
Item # Part Number	Rev Description	<u>L</u> ]Part Lo	okup	Pick Manufacture	er historica Changing th	I document. is setting could
Model Number	100.000		0.000000	% Tax % Discr 0.0000 0.00		e cost based urrency rates. Approval
External Comments   Internal	Notes Display	allow	nter the quantity w pc/MRP to hig quantity. Option	ghlight the ven 1 42 can be se	• •	t price for tial qty of 1
tmast (c:\pcmrpw943\partma:	t.dbf)		Record: 1/12	Recor	d Unlocked	NUM

Enter the **quantity** before entering the description. This will allow pc/MRP to highlight the vendor with the best **price** for <u>that</u> quantity, provided **Option 42** in the Configuration/Settings and Utilities menu is set to "PO cost based on vendor price list" and not "Last PO Cost" or "Average Cost". If no vendor cost exists or the vendor is not listed for the part, Standard cost is used.

The unit **cost** part will be automatically inserted into the purchase order and will reflect any price per qty break that is entered into the system. If you have the same part on more than one line, then each cost will reflect the cost for the quantity on the individual line, not for the total. If you want all line items (with that certain part) reflect the cost for the total qty, then do the following: Enter one line item for the total quantity. This will insert the cost for the total qty. Now use the Breakdown button to break the total quantity into as many lines as you need, and enter the desired quantity and due date for each line. Now each line item (with that certain part) is reflecting the cost for the total quantity.

## 7.1.3 Enter a new purchase order step 3, select a part number

篇 pc/MRP for Windows - Version 9. <u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfig	Purchase Order New	- 🗆 ×
Purchase Order		8
PO Number         000005           Date Ordered         01/12/2021	This is a newly created Document Curre record that has not yet Deen saved DASE CURRENC	Back
Vendor Information	Shipping Information Item Information	Items/Notes
Select the desired Part record		PLinks
	NG, 3" OD x 1" ID 111-0102-001	Add
	Select the correct part and press OK	Clon <u>e</u> Brea <u>k</u> down
<b>I</b>	>	Delete
Show Obsolete Items	<u>Ok</u> <u>Cancel</u>	<u>Options</u>
	If it takes over couple of secon part to display, click on the Opt and make sure the Auto Look- The Whole Database	ions Button up is set to reate Address
External Comments Internal Notes	00.000 0.00000 0.000 / / Disatt CY Time Required ::	Approval
Partmast (c:\pcmrpw943\partmast.dbf)	press Enter. Not case sensitive. Accnt to Shop Supplies and	inventory, you can enter NA would be better to create a Supplies, set the Expense a part number for Misc Office Accnt to Office Supplies.

Place the cursor in the Part # Field, Description Field, or Manufacturer Field. Type in the first few characters of the part number, part description, or manufacturer. A list of parts matching the characters (that you have entered) will appear. Scroll to the desired part and hit Enter or double click. All the necessary part information (including **part #, description, model #, PO unit, cost/unit, and manufacturer**) will be entered automatically.

Note: It is the PO Unit that is carried over from Inventory, not the Stock/Issue Unit.

**Note:** If you just need to purchase a non-inventory item that you do not wish to assign a part number to, use "NA" as the part number. You will then have to enter the supplier yourself, as the vendor selection pop-up will not occur.

#### 7.1.4 Enter a new purchase order step 4, select a vendor

Select from a list of vendors for that part number. The vendor with the best price for the quantity listed will be highlighted. Once you have selected a vendor from the list shown, the **Address**, **Terms**, **Tax Rate**, **Trade Discount** and **Account Number** will be entered automatically.

If the part has no assigned vendors, then type in the beginning of the vendor's name or the vendor ID, and scroll for the desired vendor.

Device MRP for Windows - Version 9.43D	Purchase Order New	-	- 🗆 ×
Purchase Order PO Number 000005 Date Ordered 01/12/2021 🗸	This is a newly created record that has not yet been saved	Document Currency BASE CURRENCY	Back Next
Vendor Selection Please select the desired Vend The vendor with the best price fe		ation	Items/Notes
Vendor ID         Vendor Name           BBC001         BBC MANUFACTURING CO           ABC001         ARROW ELECTRONICS           DIG001         DIGI-KEY ELECTRONICS           MOU001         MOUSER ELETRONICS	DMPANY 10.00 12.00 10.75	e ^	Add Clon <u>e</u> Brea <u>k</u> down Delete
ALL001 ALLIED ELECTRONICS	11.00	<ul> <li>4</li> <li>1. pc/MRP disp approved vendor number and highli with the best price pc/MRP Version 9</li> </ul>	rs for this part ghts the vendor at this quantity.
0001     Bea       Model Number     Qty       100.000       External Comments	2. Press the OK Button, 0.000000 0.0000 Currency BASE CURRENCY V Confirmed NCNR Item	display each ven lead time. Select wish to	dors price and the vendor you
Tempbestcost	Record: 1/5	Exclusive	

# 7.1.5 Enter a new purchase order step 5, enter remaining information

Dodules T	Purchase Order New	inserted	from the Addre	ess Book Modul	elated Doc, Email, Sa e. Model #, Unit, Co and NCRC from the	· · · · · · · · · · · · · · · · · · ·
🚊 Purchase O	rder				into this screen, but n Option 22 Purchas	t can be inserted into se Order Settings.
PO Number Date Ordered	01/12/2021 V	record t been sa	Display	BAS		<u>B</u> ack <u>N</u> ext
Vendor Vendor Acct# Vendor Name	BBC001 Vendor Address BBC MANUFACTURING COMPANY	rmat	endor Contact	JOE SMITH	Inserted from Long or Buy <u>er. See (</u>	
Street	ATTN: JOE SMITH 111 SOUTH MAIN STREET Open the Part's		PO Request # Entered By Related Doc	КМ	Order #	ontract # or Sales contract C(21) Requires Employee Module
City State / Zip Country Vendor Ph #	Inventory Screen. Version 9.13c and higher. c(3) s: 112-1111 higher. revlevel c(3) 980-112	Change PN	DoD Rating Requestor /endor eMail		ange (discount) can go neg to -99,99%	
Item # Part Num 0001 0000000 Model Number	ber - View Rev Description 01 ABC BEARING, 3" OD > Qty Unit	Part Looku 1" ID Cost Per U	 1mat	Pick Manufactur ch/ven good fu: % Tax % Disc		Enter Date and Time Required. s
Comments I Can be enter	100.000 POUNT its Internal Notes Display Curren Not Displayed on PO Ver 9.42A Displayed on PO. ed and or inserted y. See Option 22. Check Confirme and when th vendor confirm the PO.	CY BASE CU Confir NCNR	RRENCY V	line item. C	ed :: be	r this PO gs and

- Date and Time Required. pc/MRP will compare the date and time required with the actual date and time delivered when generating ISO 9000 Vendor Performance Reports. Use Configuration, Settings and Utilities, Option 85 to set the allowable days early and late; Option 92 to require or not require a [Delivery] Date Required. Time Required is never required to be filled out.
- Related Document Number (related sales order or contract #, contract c(21)) and Vendor Contact (These fields will automatically be populated from the Address Book contact field and can be manually overwritten.)
- **PO Entered By** (enterby) This field will be populated by the Buyer per inventory part or by the User Log-In, set by **Option 25**. This value can be manually overwritten or can be blocked, set by Option 25.)
- The **Requestor** field is only displayed if the Employee/Time Sheet module is activated.
- **DoD Rating** (Department of Defense Rating). This is used to help determine the priority of defense contracts.
- Freight Amount.
- **Rev** (revlevel c(3)) automatically populated from the inventory record
- Unlimited lines of **Comments**.
- You can check the **Confirmed** checkbox when the vendor has confirmed that they have received the PO.
- You can change the Manufacturer and Model Number by checking the Pick Manufacturer checkbox.
- Enter the **ShipVia** (UPS, FedEx) and **FOB** information on the Shipping Information Page.

**Note:** See Section 7.1.14 for more information about Ship Via and Date Require.

PO Number       000001       Change #       This is an old record pulled from the data table       Document Currency       Back         Date Ordered       04/26/2021        Complete       N       BASE CURRENCY        Next         Vendor Acct#       BBCJ01       Vendor Address Lookup       Vendor       Click on the Add Button to add another line item       items/Notes         Vendor Acct#       BBCJ01       Vendor Address Lookup       Vendor       Click on the Add Button to add another line item       items/Notes         Vendor Name       BBC MANUFACTURING COMPANY       Items       NET30       Add         Street       111 SOUTH MAIN STREET       PC Request #       Add         City       RICHVIEW       DoD Rating       Breakdown         State / Zip       CA       000000       Requestor       Image: Checking the MRP Date Lock Eutton will prevent the Infinite Eucket from allocating parts from this PO line item to a sales order whose due date is prior to this PO line item?		44 (User: DOUG) Optional <u>C</u> on		urchas	se Order	New		_		×
Vendor Acct#       BBC:001       Yondor Addreas Lookup       Vendor       Click on the Add Button to add another line item          Vendor Name       BBC MANUFACTURING COMPANY       Immonstrate       Immonstrate       Immonstrate         ATTN: JOE SMITH       PC Request #        Add         Street       111 SOUTH MAIN STREET       Entered By       KIM       Breakdown         City       RICHVIEW       DoD Rating       Breakdown       Delete         Country       Country       Requestor        Options         Vendor Ph #       The next available line       Vendor eMail       Checking the MRP Date Lock Futton will prevent the Infinite Eucket from allocating parts from this PO line item to a sales order whose due date is prior to this PO line item store of this PO line item to a sales order whose due date is prior to this PO line item 2.000       10.000000         External Comments       Internal Notes       Display Currency       BASE CURRENCY       Important         NCNR Item       Options       Vendor firmed       NCNR Item       Pos contain a re background in the Inventory Modules MRP Overview Screen.	PO Number	000001							<u>B</u> ack	3
ATTN: JOE SMITH       PC Request #         Street       111 SOUTH MAIN STREET         Entered By       KIM         City       RICHVIEW         State / 7ip       CA         Country       CA         Vendor Ph #       The next available line item will be inserted         Vendor Ph #       The next available line item will be inserted         Vendor Ph #       The next available line item will be inserted         Vendor Vendor Will       Vendor eMail         Country       Checking the MRP Date Lock Futton will prevent the Infnite Eucket from allocating parts from this PO line item to a sales order whose due date is prior to this PO line item's due date. Instead, if necessary, a new Buy Action tem will be created. The Infinite Bucket Action Item and Push Pull Reports will display an (L) for Locked next to the Purchase Order's End Date. Also, Locked POs contain a rec background in the Inventory Modules MRP Overview Screen.	Vendor Acct#	BBC001		rcaa Lookup	Vendor a	k on the Ad dd another	dd Button to		•	
State / Zip       CA       00000       Requestor       Image: Country Count	Street		STREET		PC Request # Entered By	KIM			Clun <u>e</u>	
Item #	State / Zip Country	CA The next availab	le line	30000	Requestor				_	
2.000       10.000000       0         External Comments [Internal Notes]       Display Currency       BASE CURRENCY       Sucket Action Item and Push Pull Reports will display an (L) for Locked next to the Purchase Order's End Date. Also, Locked DNRNR Item         NCNR Item       NRP Date Lock       POs contain a red background in the Inventory Modules MRP Overview Screen.	-	ber - View Rev	Description BEARNG, 3" C	D x 1" ID		] p preve parts f whose	ent the Infnite Eu from this PO line due date is prio	icket f item to thi	from allocating to a sales ord s PO line item	g ler n's
		ts   Irternal Notes	2.000	rency BAS	10.000000 E CURRENCY V on firmed CNR Item	Actinguistics of the second	ion Item will be c iet Action Item ar display an (L) for nase Order's End Os contain a red itory Modules MF	reated Id Pus Locke Date backg RP Ov	<ol> <li>The Infinite sh Pull Report ed next to the Also, Locke round in the erview Screen</li> </ol>	ts ed

# 7.1.6 Enter a new purchase order step 6, add additional line items

Click on the **Add** Button to add another line item. Once a new line item is added to the PO you can click on the **Back** and **Next** Buttons to navigate the line items. In addition you can Create Part Numbers and Create Addresses on the fly. You can also add a PO line item from a sales order line item by clicking on the **Sales Import** Button. This function will insert the Sales Order + Item number into the purchase order's related document number field. If the vendor has a related document number it will insert that and not the sale number.

Pc/MRP Version 9.44A added the MRP Date Lock Checkbox as shown above whose purpose is to prevent pc/MRP from allocating parts from this PO line item to sales orders that are due prior a sales order whose delivery date is much sooner than the PO's delivery date. Instead if necessary, a Buy action item will be created.

## 7.1.7 Enter a new purchase order step 7, enter boiler plate notes and review line items

Modules Tools Optional Configuration	-						
Purchase Order         PO Number       000005       Change #       0       This is an old from the data       Press the Items/Notes Button to review and edit line items and the from the data         Date Ordered       01/12/2021       Complete       N       Purchase Order Notes Section         Vendor Information       Shinning Information       Item Information         Image: Purchase Order Line Item Edit Form       Purchase Order Line Item Edit Form		Back       Next       Items/Notes       Items/Links					
0001         000000001         BEARING, 3" OD x 1" ID         01/14/2021         100.000000         10.000           0002         000000002         SPOKE         01/15/2021         10000.000000         1.000            Review/Edit Date Required Quantity and Unit Cost         01/15/2021         10000.000000         1.000		<u>A</u> dd Clon <u>e</u> Brea <u>k</u> down					
This is a custom comment for the entire PO       Sub Total:       11,000.00         Discount:       0.00         pc/MRP will auto insert the purchase boiler plate text (if any) from Settings       Tax:       0.00         Freight:       0.00		Delete					
and Utilities, Option 22. Users can edit and save the Boiler Plate Notes for this purchase order. Displayed Currency: BASE CURRENCY	j 	reate Address Sales Import Approval					
Press OK       Confirmed       Confirmed							
Option 42 can be set so that if Purchase Price exceeds Standard Cost, pc/MRP will issue a Warning or Block the purchase order from being saved. Version 9.12B		NUM					

Purchase Order **Boiler Plate Notes** (if any) are automatically inserted from Configuration, Settings & Utilities, **Option 22**.

To review line items or to enter boiler plate notes other than the default ones, click on the Items/Notes Button.

## 7.1.8 Enter a new purchase order step 8, save the purchase order

Modules Tools Optional Configuration	chase Order New	
Received Qty 0.000	terecvd C(10), I C(8) Check if	Eack Freight or is Taxable
0.000	sset / Expense Acct Standard Cost 1.000000 Select Acco	Clon <u>e</u>
On Time Del Asset/Expense Account Catindex Cl2 (dacct1) and Standard Unit Cost are auto inserted from the Inventory Module	Div Business Entity (bentity) Sec Configuration Option 78	Delete
Item #         Part Number - View         Rev         Description           0002         000000002         SPOKE           Model Number         Qty         Unit           10000.000         10000.000	Part Lookup       Pic         Part Lookup       Pic         Sector 1       Pic         Book or Inventory (Should be numeric).         1.000000       0.0	Create Par <u>t</u> eate Add <u>r</u> ess <u>3</u> ales Import
External Comments Internal Notes Display Currency		Approval
Partmast (c:\pcmrpw943\partmast.dbf)	features provided by the above buttons on the right.	

If the Purchase Order is for a non-standard part, enter **NA** in the Part Number field and pc/MRP will not check the Part Master.

When you are satisfied with all the entries, click on the **Finished** Button to save.

#### 7.1.9 Enter a new purchase order step 9, print, display or email the purchase order

You now have the opportunity to print, display, fax, send to e-mail as HTML or send to e-mail as PDF. To send to e-mail, MS Outlook (not MS Outlook Express) must be your default e-mail program. Users can also use pc/MRP's CDO instead of Outlook to email documents (see Section 15.1.99 in this Manual). To send to fax you must install a print driver like WINFAX. Furthermore, if the flag file **POMAILLB.FLG** exists, an address label for the vendor on that purchase order will automatically be created from the CUSADR\*.LBX or the CUSTADR\*.LBX.

# 7.1.10 Creating blanket purchase orders with the Clone Button

Press the **Clone** Button to create a blanket purchase order with even delivery dates and quantities.

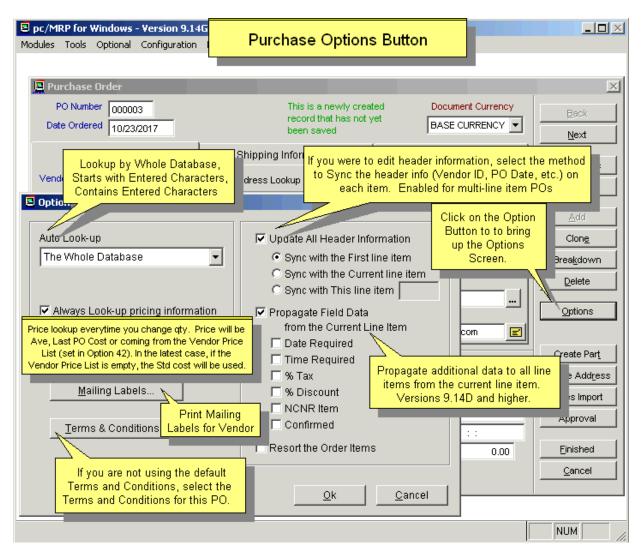
Image: Proceeding of the second system       Image: Purchase Order         Modules       Tools       Optional       Configuration	-	X
J Purchase Order		23
from the data table	ment Currency	Back Next
Vendor Information Shipping Information Press the Clon		Items/Notes
Vendor Acct# BBC001 Vendor Address Lookup Vendor Contac blanket PO with Vendor Name BBC MANUFACTURING COMPANY OT Term and due of	n even qtys	Cinks
ATTN: JOE SMITH DO Dequare #		Add
Street 111 SOUTH MAIN STREET		Clon <u>e</u>
City RICHMOND Please specify the number and interval for the clones.		Brea <u>k</u> down Delete
State / Zip OR		Doloto
Ven Enter the number of additional I Number of clones to create Opay(s)		date interval line item.
tem # Part Number - View Rev Description 3 - OWeek(s)		Create Address
0001 000000001 ABC BEARING, Model Number Qty	st Date Require	Sales Import
111-0102-001         100.000           External Comments         Internal Notes         Display	01/14/2021 🗸	Approval
External Comments [internal Notes Display Click on the OK Button to create a blanket PO NCNR item Cert Request	12:00:00	<u>F</u> inished <u>C</u> ancel
Partmast (c:\pcmrpw943\partmast.dbf) Record: 1/12 Record	d Unlocked	NUM

# 7.1.11 Creating blanket purchase orders with the Breakdown Button

Press the **Breakdown** Button to create a blanket purchase order with uneven dates and qtys.

pc/MRP for Windows - Ve Modules Tools Optional Con		Purchase	Order Br	eakdov	vn Butt	on		
PO Number       000004       Change #       0       This is an old record pulled from the data table       Document Currer       Button to create a multi line blanket PO with uneven quantities and due dates.         Vendor Information       Shipping Information       Item Information       Item Information       Item Information								
Item Breakdown     Part# 000000001     Description BEARING,	Enter the qua	antitities.		otal Requin ccounted F Still Need	or:	100.000 30.000 70.000		Aaa
10.000 12/12 20.000 01/01	/2014	Enter the due 0.000	dates.		0.000	11		Clon <u>e</u> Brea <u>k</u> down Delete
0.000 11		0.000	11		0.000	11 11		Options
0.000 //		0.000 0.000 0.000	11 11 11		0.000 0.000 Click on create			Create Par <u>t</u> Create Add <u>r</u> ess Sales Import
0.000 / / / 0.000 / / TIP: If you are going to c items with different due da					blanke			<u>F</u> inished <u>C</u> ancel
will give you the lowest pri Breakdown Button. Enter OK Button. Each line it	ce based on r the qty for e	the total qty. I each date and p	Press the press the t cost.	/11		<u>C</u> ance I Unlocked	<u>الا</u>	

# 7.1.12 Using the Options Button



The Auto Look-Up Drop Down List Box will allow you to set the look-up method for part numbers and addresses.

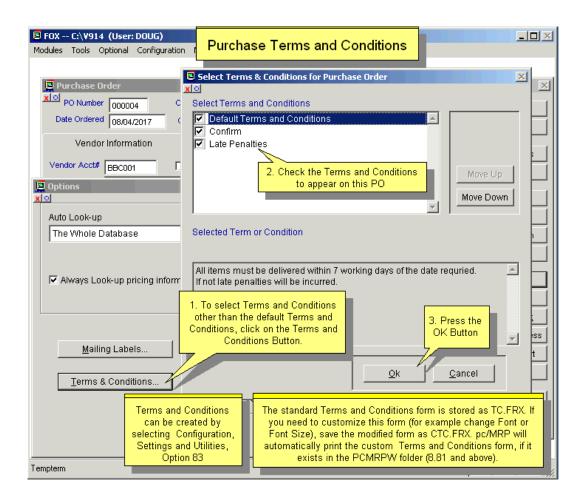
- **The Whole Database** (default setting) -- The look-up window will contain the whole database starting at the first matching name. By scrolling up and down, every entry of the database can be displayed. This is the fastest look-up method.
- Starts with Entered Characters -- The window will only show the entries starting with the characters entered in the data field.
- **Contains Entered Characters** -- The window will show all the entries as long as they contain the characters entered. This is the most versatile look-up method but is also the slowest of the three methods with a large database.

Other options on the Option Window include:

- **Always Look-up pricing info** When checked, the pricing will always be looked up even when then quantity is edited. This checkbox value is set for the user login name.
- Resort the Order Items When clicked, the Items Number will be sorted in ascending order.
- **Update all Header Information** When this option is activated, the header information (the customer information) will sync with the selection (one of the three listed)
- Mailing Labels The Mailing Labels button will allow you to create shipping labels for this purchase order.

# 7.1.13 Using the Terms and Conditions Button

• **Terms and Conditions** – If you are not using the default terms and conditions, press the Terms and Conditions Button and select which terms you wish to include on this PO. Terms and Conditions can be created with **Option 83** in Settings and Configurations.



Pressing the **Terms and Conditions** Button on the Options Window allows you to select specific terms for this PO. Terms and Conditions can be created by selecting Configuration, Settings and Utilities, **Option 83**. The Terms and Conditions will be created as the last page of the PO.

The standard Terms and Conditions form is stored as TC.FRX. If you need to customize this form (for example to change Font or Font Size), save the modified form as CTC.FRX. pc/MRP will automatically print the custom Terms and Conditions form, if it exists in the PCMRPW folder.

# 7.1.14 Using the Other Buttons

🚊 pc/MRP for Window	- Version 9.43 Purchase Orde	er - Other Buttons	- 🗆 ×			
<u>M</u> odules <u>T</u> ools <u>O</u> ptio	nal Configur					
	Mark this line item as Delete	d.				
🚊 Purchase Order		Versions 9.06B and higher offer to delete/undelete the entire				
PO Number 00000		purchase order. If you select to delete all, and one or more line items have been recieved, you must delete one line at a time.				
Date Ordered 01/12/	021		Next			
Vendor Informa		arking a PO for deletion will update	Items/Notes			
Vendor Acct# BBC001	Versions 9.23B and higher, N	lotIncDeleted.flg, will keep pc/MRP	Links			
Vendor Name BBC MA	NUF. from displaying/Printing line i	tems marked for deletion.	@ Links			
ATTN: J	DE SMITH	PO Request #	bb <u>A</u>			
Street 111 SO	TH MAIN STREET	AIN STREET Entered By KIM Clon				
		Related Doc	Breakdown			
City RICHMO	ND	DoD Rating	Delete			
State / Zip OR	88888	Req				
Country USA	9	Create a part number on the fly.	Options			
Vendor Ph # 980-112	-1111 Fax # 980-112-1112	Vend Create an address on the fly.	Log			
	w Rev Description Part Looku		Create Part			
Item # Part Number - Vi	ABC BEARING, 3" OD x 1" ID	1match/ven good fuzTest	Create Address			
Model Number	Qty Unit Cost Per L		Sales Import			
111-0102-001	100.000 POUNIT					
External Comments Internal Nor Display Currency						
	Creates a purchase order from an existing sales order. If you click on the Finished					
	Sales Import Button twice, it will insert the sales order and item # into the Related Document Number. With Versions 8.81G and higher if the vendor's Rel Doc # is empty, pc/MRP will insert the sales order and item # .					
Partmast (c:\pcmrpw943\par	mast.dbf)	Record: 1/12 Record Unlocked	NUM			

# 7.1.15 Shipping Information Page

pc/MRP for Windows - Version <u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Cont</u>	iguration Purchase Order New from Address Book, you can select another Ship Via and the Ship Date and Transit Time will automatically change as per				
PO Number         000005           Date Ordered         01/12/2021	Click on Shipping Information Tab				
Vendor Information	Shipping Information Item Information  * Shipment Time inserted from Ship Via Option 52				
ordered items.	Scroll Addresses         Ship Via         Ulss: Ground				
Company Name	different				
than your company's address. company has a permanent Ship other than your main address, custom PO form, such as CPO	address. If your ent ShipTo address address, create a				
Stor	Revised Ship Date only used by Stockroom Shortage Report, StklssShrt Po.frx. If you edit the				
0001 00000001 the F	q, Ship Via, or Transit Time     Pick Manufacturer       Revised Ship Date will be     1match/ven good fuzTest				
Model Number	Calculated and displayed. % Tax % Discnt Date Require Sales Import				
111-0102-001	100.000 POUNIT 10.00000 0.000 0.00 01/14/2021 ✓ Approval				
pc/MRP can track UPS, FedEx, DHL, and Postal Service Packages. Internet Explorer must be your default browser if you wish to track DHL and Postal Services Packages	* Ship Time, Orig Ship Date, and Orig Date Req are auto entered when the PO is created. After that the orig fields can not be edited. Option 85 can be set to allow editing and auto entered when confirmed.				

The Shipping Information Page allows users to enter a different **Ship to Address** and **Tracking Numbers**. The Track Button will track the packages listed in the Tracking Numbers Window.

If you wish to track the packages through pc/MRP, enter the **Tracking Number(s)**. When you click the Track Button, pc/MRP will track the package. pc/MRP will first look to the Ship Via Edit Box to see which shipping vendor (UPS, FedEx, DHL, Postal Service, TNT) to use. If the Ship Via Edit Box is blank or you used multiple vendors pc/MRP will see if the tracking number is proceeded by UPS:, FEDEX:, DHL:, or TNT: to see which shipping vendor to use. If all of the above is blank, pc/MRP will prompt you to select a shipping vendor.

**Option 85** allows to set whether **Original Ship Date** (OrShipDate) and **Original Date Required** (OrDateReq) would be populated at the time when the Purchase Order is being created, or at the time when it is confirmed. It also sets whether these fields are editable. Original Date Required is the same date as Date Require, Original Ship Date will be calculated from Date Require and the **Shipment Transit Time**, if populated. The Shipment Transit Time is inserted according to the selected **Ship Via**, as long as **Option 52** has a Shipment Transit Time entered for that Ship Via.

The **Logbook** button at the bottom of the page will allow you to enter a logbook for each Purchase Order to record conversations, commitments, etc. Settings and Utilities **Option 80** can set pc/MRP to open up a Notepad or Word file. Pressing the F5 key in Notepad will automatically enter the date and time into your notepad text.

If If your company has a permanent **ShipTo** address other than your main address, call Software Arts. Let them remote in and create a custom PO form, such as CPOShipTo.frx

## 7.1.16 Item Information Page

Purchase Order       Click on Item Information Tab       S3         Date Ordered       01/12/2021       etyrec N(13,3), daterecvd C(10), timerecvd C(8)       builed       Information Tab       Back         Vendor Information       Auto Filled by Return to Vendor rejqty N(13,3)       Freight is Taxable       Check if Freight or Discount is Taxable         Received Qty       0.000       Seset / Expense Acct       Item Information       Add         Time Recd       ::       Standard Cost       1.000000       Select Account       Dwn         On Time Del       Asset/Expense Account (dacct1) and Standard Unit Cost are auto inserted from the Inventory Module       Dwn       Select Account       Dwn         Rem #       Part Number - View       Rev       Description       Part Lookup       Pre       Configuration Option 78 determines if the Div is inserted from the Address       Seles Accreate	Image: Second	
Item # Part Number - View       Rev       Description       Part Lookup       Pic       determines if the Div is inserted from the Address Book or Inventory (Should be numeric).       Create Part         0002       000000002       SPOKE       Book or Inventory (Should be numeric).       Sector Inventory (Should be numeric).       Sector Inventory (Should be numeric).       Sector Inventory (Should be numeric).         Image: Note: Sector Inventory       Image: Sector Inventory       Should be numeric).       Sector Inventory (Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Should be numeric).       Sector Inventory         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector Inventory       Image: Sector Inventory       Should be numeric).         Image: Sector Inventory       Image: Sector	PO Number       000005         Date Ordered       01/12/2021         Delivery Fields auto filled when received. qtyrec N(13,3), daterecvd C(10), timerecvd C(8)       Dulled         Vendor Information       Auto Filled by Return to Vendor rejqty N(13,3)         Received Qty       0.000         Rejected Qty       0.000         Date Rcvd       ///         Time Recd       ::         Standard Cost       1.00000         Select Account       Div         On Time Del       Asset/Expense Account         Catindex       Cl2         Unit Cost are auto       Business Entity	Back Freight or is Taxable Links Add Clong Long Long Long Long Long
Index relation       ary on a control on control on control on a control on a control on a cont	tem # Part Number - View Rev Description Part Lookup Pic inserted from the Address	Create Par <u>t</u>
External Comments       Internal Notes       Display Currency       BASE CURRENCY       Time Required       : :       Freight       0.00       Finished         Confirmed       Confirmed       Cont Dequest       If you are done, click on the Finished Button to save the PO and increase the qty onorder for each item ordered. The remaining slides cover the additional       Cancel		≩ales Import
Confirmed     Freight     Confirmed     Freight     Confirmed     Freight     Confirmed     Freight     Confirmed     Einished     Einished     Einished     Concel     Einished     Concel     Einished     Concel     Einished     Concel     Einished     Einishe		Approval
ordered. The remaining slides cover the additional	Confirmed Cost Request	
Partmast (c:\pcmrpw943\partmast.dbf) NUM		

Check Freight is Taxable (Taxfreight) if applicable.

Check **Discount is Taxable** (Taxdiscnt) if applicable. Tax will be paid for the full amount regardless of discount.

The **Debit/Charge Number** (Dacct1) is automatically inserted from the partmaster table. You can select another inventory or expense account to be debited when the receiver is posted by clicking on the Ellipse [...] Button next to the Debit/Charge Text Box.

The **Standard Cost** (Stdcost) is inserted from the Inventory Data Base for that part number. It is used by the Purchase Price Variation Report found in pc/MRP's Accounting Module to compare with the actual cost on the purchase order.

The **Div** (Division) is automatically imported from the Inventory or Address Record depending on the setting of Configuration, Settings and Utilities, **Option 78**.

The Rev Ship Date, if used, is only shown on the Stockroom Shortage report. Not used by MRP.

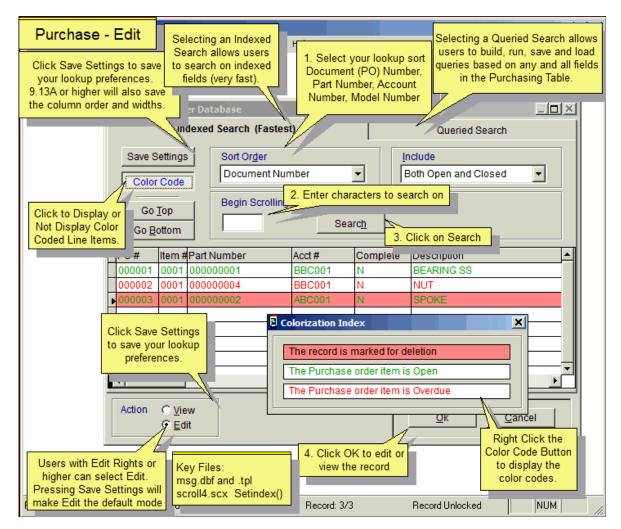
Please note that the **Rejected Qty** (rejqty) is updated with a 'Return to Vendor' transaction. If you repair the rejected quantity in-house, you must modify the **Rejected Qty** manually so the ISO9000 report is accurate.

The **Business Entity** (bentity) choices can be created using Configuration, Settings and Utilities, Option 52.

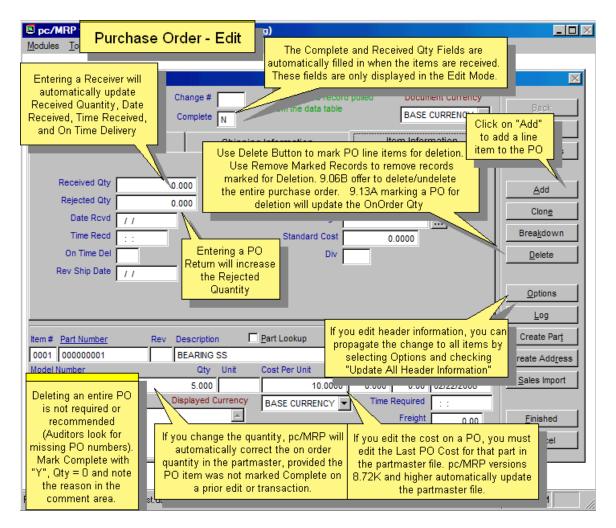
# 7.2 Edit a Purchase Order

Selecting Modules, Purchase, Edit will display the screen shown below and allows users to scroll, edit, delete, undelete, or run queries against Purchase Order records.

Selecting an **Indexed Search** allows users to search on indexed fields. An Indexed Search is much faster than a Queried Search.



Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Purchase Order table. For further details, see Chapter 15.14.1.



Every field in the Purchase Order edit screen is editable. There are however, several key concepts users must understand when editing.

- pc/MRP automatically corrects the part number's on-order quantity whenever the quantity in the purchase order changes. If the PO cost is changed on the last PO, pc/MRP will offer to update the Last PO Cost in the Partmast. For earlier versions, you must manually edit the part's Last PO Cost.
- pc/MRP prints out the vendor's address from the first line item.
- To add an additional line item to an existing PO, select the "Add" button while on the last current item number of the PO.
- If you make a change to the header information while editing, you can quickly propagate that change to the header of the remaining items. Just click on the **Options** button and select the "Update All Header Information" check box.
- The **Complete** and **Oty Received** fields are displayed only in the edit mode and are filled in automatically when the items are received. The Qty Received field contains the accumulative amount received. pc/MRP uses the Complete field to determine if a record is overdue, open, or closed. A Y in the Complete field marks the record as closed (i.e. the original quantity ordered for the line item has been received). Users should not manually edit these fields unless they wish to close the purchase order or adjust the quantity received.
- Use the Delete Button to mark a line item or the entire purchase order for deletion. Line items that have been received can not be marked for deletion. To permanently remote the records from the database table, set an administrative lockout, then select Purchase, Remove Marked Records. Note: Versions 9.06B and higher offer to delete/undelete the entire purchase order. Version 9.13A and higher, marking a PO for deletion will update the OnOrder qty in inventory.

# 7.3 PO Approval

Companies that own the optional Advanced Password Module, can utilize the PO Approval feature below. The optional User Task Manager & Tickler Module adds an additional feature, but is not essential.

	Optional Configurati	PO / F	PR Appro	oval Overview	With versions 9.00 ar can be assigned rights and approve POs and	to digitally sign
THE R. LEWIS CO., LANSING MICH.	rd & Access Rights					
x OJser Name	Password 🔺	EDI	Inv Areas	PO Approval	PR Approval	
ROB	YABA	N	Edit	No Approval Rigl 💌	No Approval Righ 💌	
▶ RON	RON	N	Edit	Level 1 Approval 💌	Level 1 Approval	
S00	S00	N	Edit	Level 2 Approval 🔻	No Approval Rights	
Editing rel				sword Module to if any, and level	Level 1 Approval Rights Level 2 Approval Rights Level 3 Approval Rights Level 4 Approval Rights	Eack
<u>N</u> ew	<u>D</u> elete			<u>k</u>	<u>C</u> ancel	Next
Wp_temp				Record: 3/7	Exclusive	tems/Notes
Vendor Name	BBC MANUFACTURING	_	uress Lookup Y	Vendor Contact Terms	 T30	Links
	ATTN: JOE SMITH			PO Request #		Add
Street	111 SOUTH MAIN STRE	E1 🗊 Pu	rchase Order	Approval	×	Clone
		x		Signature		Breakdown
City	RICHVIEW	_		Signature		Delete
State / Zip	CA	Leve	el 1 Approval		Insert Signature	Delere
Country	USA	Leve	l 2 Approval	Xim	Remove Sign	Options
Vendor Ph #		Fa: Leve	l 3 Approval	Ron	That person could then edit a PO, Press the	Log
Item # Part Num!	ber Rev Des				Approval Button and Insert	Create Par <u>t</u>
		Leve	el 4 Approval		heir signature at the level	Create Address
Manager Module a message to	Dptional Tickler Task e will allow users to o a user requesting I oval signature on a F	send ne	To request a	signature from ar	they are approved for.	Sales Import

Users can have rights to approve a PO of 5 different levels, from No Approval Right to Level 4 Approval Rights. This is set in the Optional Advanced Password Module for each user. Users with PO approval rights can then click on the Approval button and insert their user name into an approval box on or below their approval level.

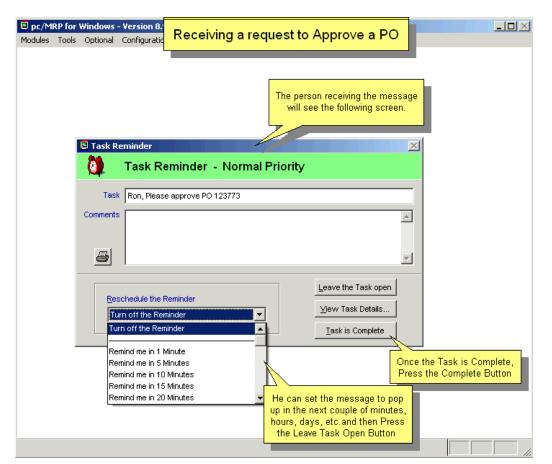
FOX C:\V896 (User: SOO) Modules Tools Optional Configuration Mar Purchase Order PO Number 000001 Change # Date Ordered 09/08/2015 Complete Vendor Information	Purchasing Screen	approve Purchase Orders at Level 2, he or she can Insert and or Remove their signature at Level 2 and or
Vendor Name BBC MANUF/ XO ATTN: JOE St Street 111 SOUTH M Level 2 App City RICHVIEW State / Zip CA Country USA Vendor Ph #	proval Xim	Insert Signature Insert Signa
Comments Displayed	1 1	0.000 0.00 09/20/2015 Approval Time Required ::  Click the Purchase Order Approval Button to bring up the Approval Screen above.  Record Unlocked

The approval signatures will appear at the bottom of the PO or PO Request forms.

88C MANUFACTURING COMPA ATTN: DE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 60800 USA	WY		123 MAIN	TECHNOLOGIES	-		
	REV DESCRIPTION	DATE REQ	QTY	UNIT	PRICE	total Price	
0001 0000000000000	BEARING SS	09/20/15	5		10.00	50.00	
DF THE HITML GENERATI INCLUDING THE ABILIT PO boiler plate	IDED TO TEST THE FUNCT DN PROCESS. Y TO SKOP BLANK LINES.	Approv appear a PO and P		es will m of the st Forms		50.00 0.00 50.00	
APPRDYALS: Level I:	Level 2: <u>Xa</u>	Level	3 <u>Aon</u>	_ Level <b>4</b> <u>Ang</u>			•
/(c:\docume~1\doug\locals~1\t	emp\35973724.dbf)	Reco	ord: EOF/1	Exc	lusive		

If the optional User Task Manager & Tickler Module is activated, you can immediately send a request to another user to approve the PO. Press the F4 key, or select Optional, User Task Manager & Tickler, New Task.

pc/MRP for Windows - Version 8. Modules Tools Optional Configuratio	nd a request to Approve a PO
Task Properties	st Task Manager Settings to pop up within 1 minute.
☑ <u>R</u> eminder	Priority Normal  4. Select Working
11/17/2015 04:16:05	PM 🗹 Category Sales Follow-up 🔽
Properties Comments	Status Working
Properties	Completion Status
Created by DOUG	Date Started // :: AM
Created Date 11/17/2015	i 03:16:05 PM Completed by
Assigned to DOUG	Completed Date / / :: AM
Due Date DOUG	Completion Stage 0 Complete
KIM KINGA RICHARD	<u>Ok</u> <u>Cancel</u>
	5. Press the OK Button
l e	3. Select the person you wish to send the message to. If the Drop Down List Box is mpty, Go to Optional, User Task Manager ckler and Settings and set it to "Obtain the User List from Password Module"



# 7.4 Delete a Purchase Order

Deleting an entire PO is not required or recommended as Accounting does not like to see breaks in numbering.

- Option 1:
  - For each line item: mark item's **Complete** flag with a 'Y', change the **Qty** to **0**, and note the reason in the **Comments** area. The **OnOrder** qty is automatically updated when you save the record.
  - Option 2:

•

• Mark each line item's **Complete** flag with a "Y" and then run the **Audit OnOrder Quantities** from the Purchase menu. This keeps the original order qtys. The **OnOrder** qty is only updated when you click "Display and Update" next to the On Order quantity.

Once all the line items in a PO are marked **Complete** (maybe with 0 qtys), the whole PO is considered complete.

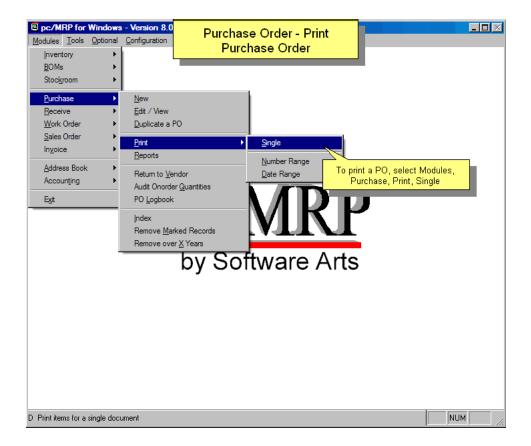
Note: Before version 9.13, the OnOrder quantity included POs marked for deletion.

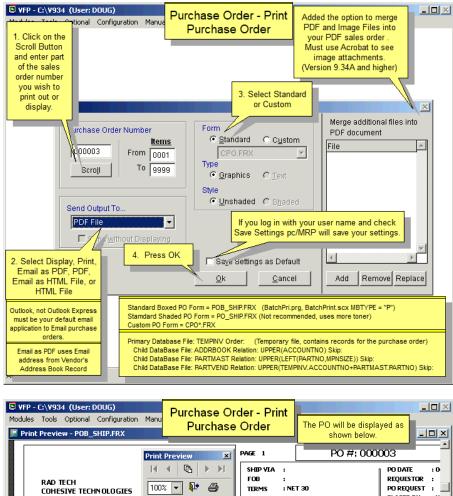
#### 7.5 Duplicate a Purchase Order

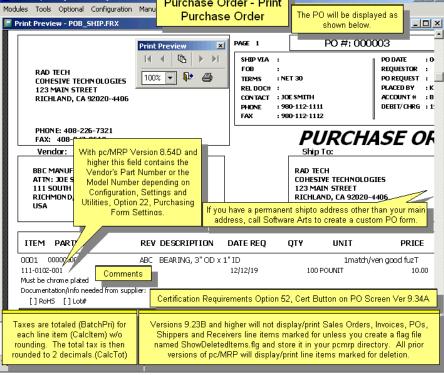
Select Modules, Purchase, Duplicate a PO. Scroll for (or type in) the PO number to duplicate. You can set if you want to open the new PO for editing. The new PO will be an exact copy of the original, except: PO date will be the current date. Received qty, rejected qty, change# will be 0. Date/time received, date/time required, original date required, original/revised ship date and on time delivery will be blank. Confirmed will be N. Buyer will be Original buyer, User login or Buyer for the part, set by Configuration, **Option 25**. (**Notes:** In versions **9.04** and lower Buyer was always the buyer of the original PO. Versions 9.10G and lower duplicated the approval signatures.)

## 7.6 Print, Display, or E-mail, a PO

To print, display, or e-mail a PO select Modules, Purchase, Print







Configuration, Settings and Utilities

- Option 24 allows you to create custom purchase order forms.
- Option 22 allows you to add up to nine lines of Notes to all purchase orders.
- Option 83 allows users to add selectable Terms and Conditions for purchase orders.
- Option 82 allows users to add selectable Certification Requirements.

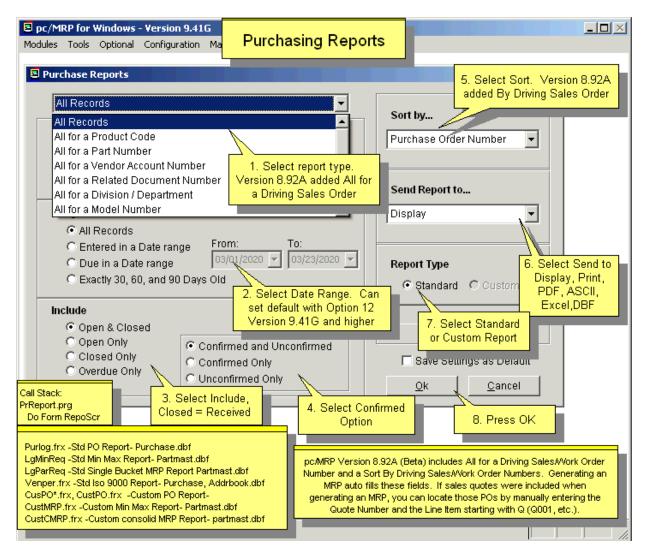
Purchase orders may be folded in three and placed in a double window envelope.

If you use Configuration, Settings and Utilities, Option 83 to create Terms and Conditions, a Terms and Condition Page will print ut as well.

VFP - C:\V794 (User: DOUG)	
Modules Tools Optional Configuration Man	ual <u>P</u> rinter
Print         Preview           If         I           If         I	► The Terms will be displayed as shown below.
	SOFTWARE ARTS INC. Terms & Conditions
Terms and Conditions	
All terms and conditio	ns apply
Late Penalties All purchase orders de	livered 7 working days overdue shall incur a 10% penalty
	The standard Terms and Conditions can be created using Configuration, Settings and Utitites, Option 83. The Conditions checked as Default will print out on all Purchase Orders. You can edit a PO, press the Option Button and select additional terms to be printed out for that PO. The standard Terms and Conditions Form is named TC.frx. You can create a custom Terms and Condition Form. Its name must be CTC.frx. If a CTC.frx file exists in the pc/MRP folder, pc/MRP will use that form instead of the standard form.
Tc_ids	Record: E0F/2 Exclusive NUM

# 7.7 Reports

# 7.7.1 Purchase Order Reports



Configuration, Settings and Utilities, **Option 24** allows users to create custom report forms. See Section 15.4.1 of this Manual for instructions on creating custom reports or forms.

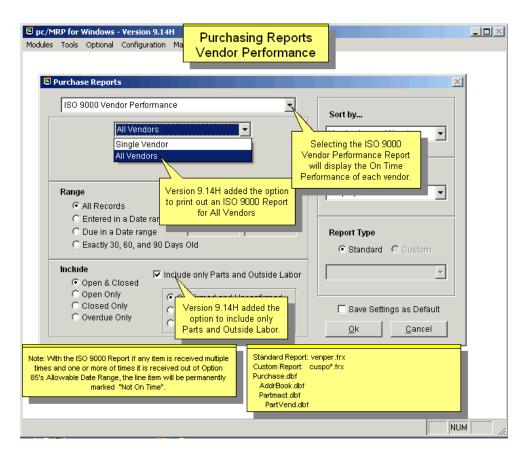
# 7.7.2 ISO 9000 Vendor Performance Report

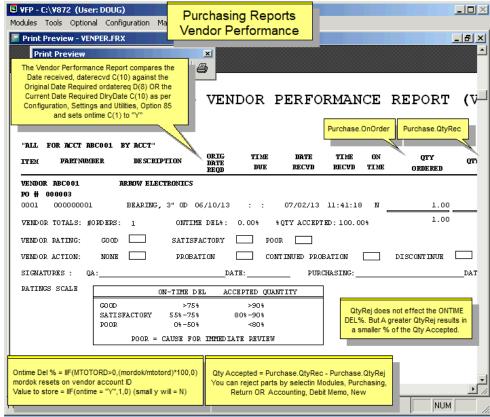
The ISO 9000 Vendor performance report allows users to track their vendor's performance and reliability. This report is automatically generated by using information compiled within the purchasing and receiving modules of pc/MRP. This report further allows the user to grade vendors and define a course of action based on the vendor's performance.

The criteria for lateness can be set with Configuration, Settings and Utilities, **Option 85**. Leaving the Vendor ID blank and checking the Partial Match Radio Button will print out a report that includes all vendors.

**Note:** There could be multiple receivers for one PO line item. If any receiver for a PO line item falls outside Option 85's acceptable date range, the PO line item will be marked as not on time.

On Time is determined when the part is received. pc/MRP uses the Original Date Required or the Current Date Required as per Option 85 in both determining whether delivery is On Time, and for the Vendor Performance Report.





#### 7.7.3 MRP Report (All Parts Required)

The MRP Report in Purchasing can use one of two methods, Consolidated (Single Bucket MRP) or Min/Max, to determine the purchasing requirements. See the following two Sections.

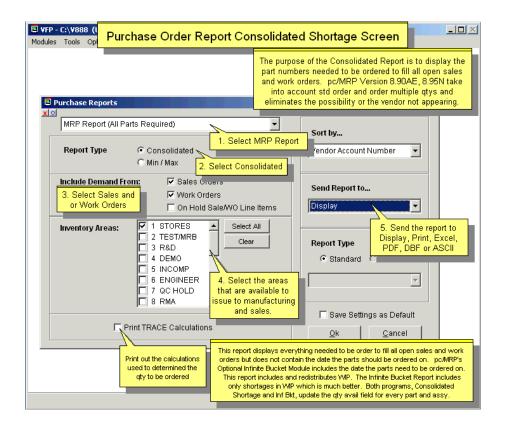
**Note:** For an advanced MRP method, see the optional Infinite Bucket MRP module in Chapter 16.3 in this Manual.

## 7.7.3.1 Min/Max Report (Igminreq.frx)

One method is the MIN/MAX selection. This reports all parts under the minimum quantity allowable. The minimum quantity for each part is entered into the Inventory Database File and should equal the quantity used per week x lead-time in weeks x your safety factor. The maximum quantity for each part is entered into the Inventory Database File and should be set at some level higher than the minimum quantity. This report takes into account the order qty and the on-demand qty for each part and assembly. It report provides the quantity required to reach the minimum quantity and the quantity required to meet the maximum quantity. The report is easier to understand if you have maximum quantities for all your parts.

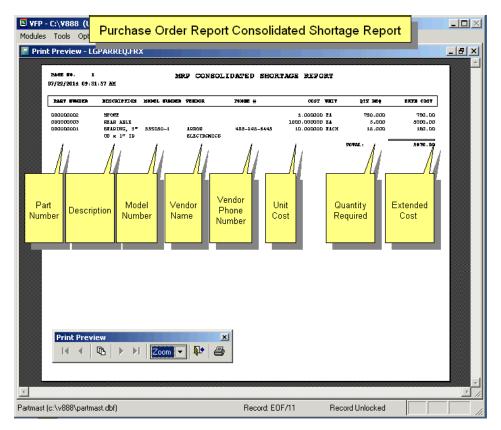
## 7.7.3.2 Consolidated Single Bucket MRP Report (Igparreq.frx)

The other method, Consolidated, provides the exact number of parts required to be ordered to meet the demand driven by sales orders and/or work orders. The consolidation report first zeroes out all on order and on demand quantities in inventory and updates these fields representative of open purchase orders and sales/work orders. It then compares what is on demand from open sales/work orders with what is on order, in WIP, on hand (finished assemblies, sub assemblies, and minimum stocking levels). Consequently, the quantity required is calculated as described below.



If there are not enough finished assemblies and sub assemblies to fill the open sales and work orders pc/MRP will use the BOMs and current onhand quantities to determine which parts need to be ordered. The report lists parts to be ordered for assemblies. It does not list sub-assemblies, as they cannot be ordered. The Consolidated Purchasing Report will tell you what to order but not when to order. Software Arts offers an **optional Infinite Bucket module** that allows MRP reporting in much more detail. This is covered in Chapter 16.3.1 in this Manual.

The Consolidated Purchasing Report can be run several different ways. Users can include or exclude sales orders and or work orders as well as all inventory locations. (Users must keep WIP checked to run this MRP.) Users can also select to Print Trace Calculations. This is a detailed report that explains exactly where and how demand for each part is driven. There is no need to print out and trace the calculations unless you disagree with the MRP results. The Consolidated Purchasing Report can also be sorted several ways and the output can be set to display, print, or several different file types.



After the consolidated report has been generated, pc/MRP offers an Excess Inventory report. Users can select one of the following reports: All Parts, Without Movement, More Onhand than Required or Both No Requirement and More Onhand than Required.

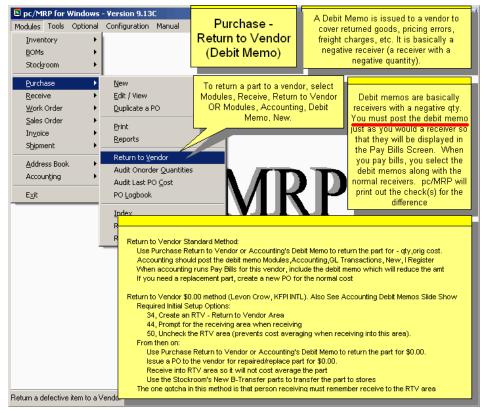
The report will also provide the Average or Standard cost of the excess inventory. The user will be given the option to **automatically generate Purchase Orders** based on the consolidated shortage report. If this option is selected, a Purchase Order will be created to the primary vendor for all requirements. Users can select Set Process Defaults to see/change the due date for the Purchase Orders pc/MRP is about to create. All the Purchase Orders that were generated may then be printed. If the program is unable to create a Purchase Order item for a requirement (because there is no vendor associated with the part or the part number is invalid), an error report describing the error(s) will be available. Buyer will be the User login or the Buyer for the part, set by Configuration, **Option 25**. (**Note:** In versions **9.04** and lower Buyer was always the Buyer for the part.)

# 7.7.3.3 Purchase Report: All for a Driving Sales/Work Order

pc/MRP for Windows - Version 8.95L Modules Tools Optional Configuration M     All For a Driving     Sales/Work Order	to display and print All for A Driving
Purchase Reports All for a Driving Sales/Work Order Number So/Wo# Item# So/Wo# Item# Scroll	▼ Sort by Driving Sales/Work Order Nu ▼ Send Report to
Range           All Records   Purchase's DrvSoNo and DrvItemNo Fields Overview: Vhen the Infinite Bucket generates an MRP (Mrp2Gen.prg) it creates an Action dat file with Buy, PO (existing POs), etc. action items. It will make a FRESH determinati the driving sales order (Action ActRelDec) and itemno (Action ActReller) for each I PO action them in the Action Database File as the sales orders may have been chai and the exiting POs may be needed for other sales orders. Towards the very end generation it will open up the purchase dbf file and inserts the driving sales (Action ActRelDec) and itemno (ActRelLet) into the existing purchase orders DrvSoNo and DrvItemNo Fields. When a user runs the Auto Create Purchase Orders (AutoPo.prg) it creates a tem cursor from action.dbf with only Buy records and starting dates within the range. creates an empty MIEMPAR12 Alias Action table. It fills Action with parts to be pu as per tempart. If the user selected Consolidate II will create 1 record for multiple quantities. It will then create new POs based on the action cursor using the Actio AcrRelDoc to populate the Purchase DrvSoNo and Purchase.DrvItemNo Fields.	Display     Display     Report Type     Standard     Custom     Buy and   I of the   Save Settings as Default     Qk   Qancel

## 7.8 Return Items to a Vendor (Debit Memo)

This process is the same as creating a Debit Memo in the general ledger; see Chapter 14.11, Debit Memo module.



# 7.9 Audit Onorder Quantities

Zeroes out the onorder quantity in inventory and then replaces the onorder quantities with the onorder quantities from all open POs. If you deleted purchase orders, you should use this option to correct onorder quantities. This option will also display blank PO dates and part numbers that do not exist in inventory. If 'Audit Onorder Quantities' reports any errors, you must fix the errors and re-run the function again.

## 7.10 Audit Last PO Cost

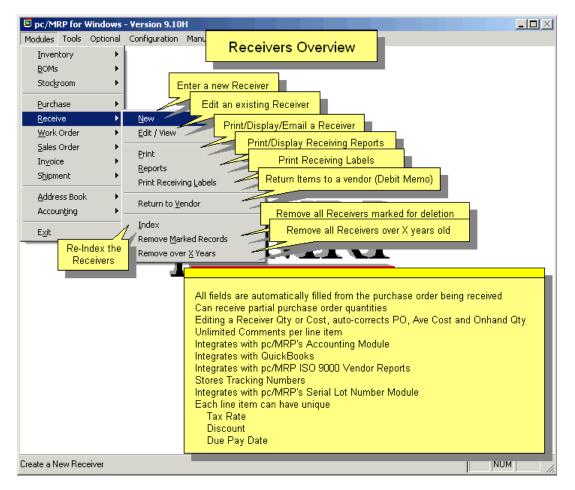
Audits and if necessary corrects the Last PO Cost in each part's Inventory record. **Note:** All versions update the costs correctly. However the number of corrections made was displayed wrong in versions **9.10J** and below.

# 7.11 PO Log Book

The **Logbook** button at the bottom of the page will allow you to enter a logbook for each Purchase Order to record conversations, commitments, etc. Settings and Utilities **Option 80** can set pc/MRP to open up a Notepad or Word file. Pressing the **F5** key in Notepad will automatically enter the date and time into your text.

- 7.12 Queried Search Overview (see 15.14.1)
- 7.13 Indexed Searches (see 15.14.2)
- 7.14 Index (see 15.14.3)
- 7.15 Remove Marked Records (see 15.14.4)
- 7.16 Remove Over X Years (see 15.14.5)

# 8 Receiving Module



#### 8.1 Enter a New Receiver

To enter a new receiver, select Receive and New. pc/MRP will display the next available **Receiver Number** and offer to scroll the PO file. If you answer Yes, you will be able to scroll the PO file by either PO Number, Account Number, or Part Number. If you answer No, pc/MRP will display the most recent PO Number and Item Number. You can write over these numbers and write in the desired Receiver and PO Numbers.

An online slideshow is located here: http://www.pcmrp.com/mrp101/receivenew.htm

Configuration, Settings and Utilities, **Option 44** can be set to Prompt for the receiving area, Use the area specified in inventory, or Always use the area specified in Option 44.

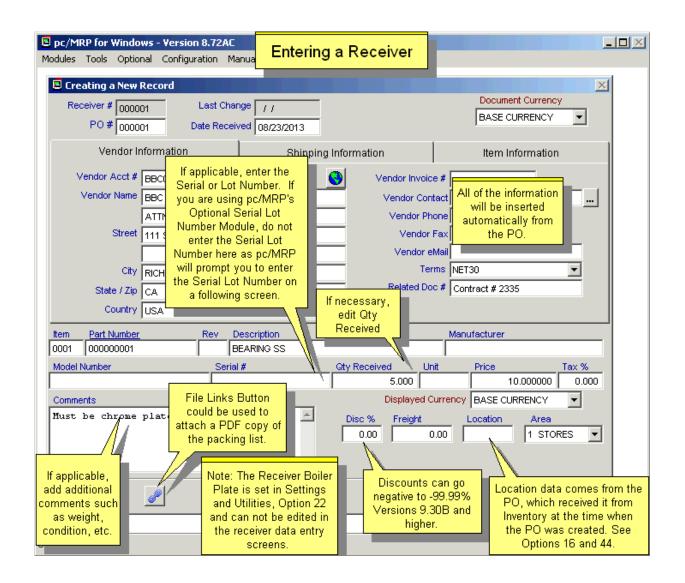
Multiple users entering receivers at the same time may end up printing out the first saved receiver forcing the second user to go back and print out the second receiver. Upgrade to version 9.40M or higher.

#### 8.1.1 Receiver Data Entry Screen Vendor Tab

Part Number, Description, Manufacturer, Model Number, Vendor, Address, Order Quantity, Unit, Cost, Terms, Account Number, Trade Discount, Tax Rate, Div, and Freight are entered automatically from the PO and can be written over if no longer correct.

If Configuration Settings and Utilities **Option 16** is set to Enable Dynamic Stock Locations, pc/MRP will allow you to assign a new stock **Location** for a part number if there are none in stock in that area. The inventory will be updated with the location information.

Click on the Part Number label to see data from Inventory for this part.



**Quantity Received** can be edited if necessary (partial receiving). If a file named **SHORTREC.FLG** exists in the PCMRPW folder and you receive a partial quantity, pc/MRP will offer to...

- place the remaining quantity on backorder (this is the default action, without the flag file)
- close this PO item even though it is short
- re-enter the receiver for this item.

The **Comments** field can be used to store additional information such as weight, number of packages, etc. The **Related Document** field is a 23 character scrollable field. It can be used to enter a related contract number, serial number, sales order number, etc. It will be carried over from the PO, if filled in.

**Vendor Invoice Number**, and **Freight** are usually entered by accounting when the vendor sends his invoice (Accounting will inspect and edit the receiver).

**Note:** The **Receiver Boiler Plate** is created in the Configuration, Settings & Utilities, **Option 22** and cannot be edited in the receiver data entry screen. Also, the Purchase Order Boiler Plate does NOT transfer into the Receiver Boiler Plate print area (receiver 'Notes:' area).

## 8.1.2 Receiver Data Entry Screen Shipping Tab

pc/MRP for Windows - Version 8.72AC     Entering a Receiver	1×
Creating a New Record       Image: Constraint of the second	
Vendor Information       Shipping Information       Item Information         Requestor       Doug       If applicable enter the name of person the package was delivered to.       Collect Y/N         PO Req #       If applicable enter the name of person the package was delivered to.       Collect Y/N       Freight Bill         Delivered To       Tracking Numbers (one per line)       Track         Received By       Doug 11:20:51       Your name and time will be entered automatically       Pressing the Track Button will automatically track the packages listed.	
Item         Part Number         Rev         Description         Manufacturer           0001         000000001         BEARING SS         Image: Comparison of the second	
Model Number     Serial #     Gty Received     Unit     Price     Tax %       5.000     10.000000     0.000       Comments     Displayed Currency     BASE CURRENCY     Image: Currency       Must be chrome plated     Image: Currency     Area       0.00     0.00     1     STORES	
Name of person requesting PO	

The **Received By** field is automatically populated by the user name and time.

If the freight charge is invoiced separately, enter the freight invoice number in the Freight Bill Number field.

Freight Bill Number, **Collect**, and **Delivered To**, will give your Receiving Logs valuable information.

The total amount for the **Freight**, if known, can be entered once in one line item in the freight field or entered individually for all line items. The freight totals for all line items will be totaled and printed out on the forms and reports.

When you click the **Track** Button, pc/MRP will track the package. pc/MRP will first look to the **Shipped Via** box to see which shipping vendor (UPS, FedEx, DHL, Postal Service, TNT) to track. If the Ship Via is blank or you used multiple vendors pc/MRP will see if the tracking number is proceeded by UPS:, FEDEX:, DHL:, or TNT: to see which shipping vendor to track. If all of the above is blank, pc/MRP will prompt you to select a shipping vendor.

## 8.1.3 Receiver Data Entry Screen Information Tab

pc/MRP for Windows - Version 9.14G     Entering a Receiver	IX
Click on Item     Info to enter or     edit item info.     Click on Item     Info to enter or     edit item info.     Click on Item     Info to enter or     edit item info.     Click on Item     Info to enter or     edit item info.     Preight or     Date Received     Date Received     Date Received     Date Received     Shipping     Asset or Expense     Account to Debit     Aux     O     Hold     Y inserted into On     Business Entity	-
Pay Date     11/17/2017     Time if Date Req <= DateRecvd	3 on her
Otherwise the receiver's Pay Date will be blank.       attraction of the sector of the s	5
Comments NUM	//.

If the freight or discount is taxable, check the Freight is Taxable and/or Discount is Taxable checkboxes.

If a file named **RECSCOST.FLG** exists, pc/MRP will insert the Standard Cost from the partmaster into the receiver's Standard Cost field when you enter a receiver. If the flag file does not exist, pc/MRP will insert \$0.00 into the receiver Standard Cost field.

pc/MRP will debit **Debit/Charge Number** when accounting performs an I type accounting transaction (register an accounts payable invoice) for this receiver.

The **Pay Date** is automatically calculated from the number following the word "NET" or "Net" in the Terms field (as the Terms value is being carried over from the PO). Otherwise it is blank.

The current date is automatically inserted into the **Date Received** field. The Date Received field is used by pc/MRP's Accounting Module in aging the Accounts Receivables records. It is also the date used to determine which of the receiving records to delete with the "Delete all receiving records over X years old" function. pc/MRP will automatically fill out the **On Time** field according to your settings in **Option 85**.

Once the new receiving record has been entered, pc/MRP will update the Quantity Received, Date Received, On Time delivery, and Complete fields in the purchasing record. It will automatically increase the quantity on hand and decrease the quantity on order in Inventory, provided pc/MRP has been configured to do so (Configuration, Settings and Utilities **Option 4** set to A). If a receiver is over received pc/MRP will decrement the quantity on order in inventory but it will not take the onorder quantity negative.

The Aux field is a 20-character field for your use and can be reported on as "All for an Aux value".

If checked, the **Hold** field (hold L(1) will prevent the entire receiver from being exported to QuickBooks.

When a new receiver is entered, pc/MRP will automatically calculate and update the Average Cost:

If the new cost >= 0 and quantity received > 0 and the old cost > 0 and the quantity on hand >= 0, the average cost of the part will be recalculated based on the formula below:

(original avecost x quantity onhand) + (new cost x quantity received)

quantity on hand + quantity received

**Note:** If the new cost = 0 then the average cost will be calculated just as the example describes. If the old cost = 0 then the average cost will be equal to the new cost per stocking unit including any discount. This protects users who entered/imported their part quantities but not the cost, counting on the first receivers to set their starting costs. **Option 50** in pc/MRP's configuration menu allows you to include alternate area quantities and WIP quantities in the above formula. If the area you are receiving into is not checked, pc/MRP will not perform the cost average.

If you have activated the **Serial/Lot Number module**, pc/MRP will ask if you wish to "Enter serial/lot numbers". If you answer Yes, you will be prompted to enter the quantity and serial/lot number of the part you are receiving. This will append a new serial/lot number record to SNLOTDET.DBF detail file. It will also update the quantity or append a new record in the SNLOT.DBF master file. If you are receiving multiple serial numbers for the same part number, answer Y when prompted to "Enter another serial/lot number for this part number".

If the item you are receiving is an assembly, pc/MRP will ask if you wish to **Increase** the onhand quantity of the assemblies or **Convert** parts to assemblies (increase assemblies & decrease onhand quantity of the parts). (This function is not applicable if you are using Inventory Adjustment Method **S**.) Next (as long as Configuration **Option 47** allows you to do cost roll-ups), pc/MRP will ask if you wish to do a cost roll-up and/or a sales price mark-up. <u>Be aware that if you turn off Option 47 in the Configuration/Settings and Utilities this will also turn off the Inventory cost-roll-up option.</u>

	Item is an Assembly:	
	© Increase Inventory Quantity © Convert Parts to Assembly	
ч	Save as Default	
	<u>0</u> K	ľ

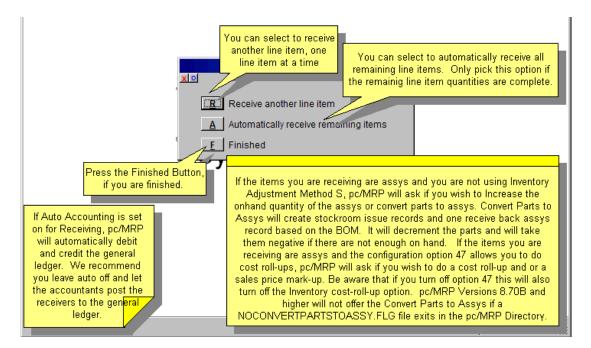
If the PO line item has already been fully received, pc/MRP will generate a warning allowing the user to continue or cancel.

Once the initial line item has been received, pc/MRP will prompt you to "Receive another line item", "Receive all of the remaining line items on the original PO", or "Finish".

If Configuration, Settings and Utilities, **Option 8**, **Auto Accounting** is On for receivers, after all the line items have been received, pc/MRP will automatically debit and credit the general ledger. The newly entered GL transaction will be displayed for edit before it is saved. A "Y" will be inserted into the receiver's Posted field.

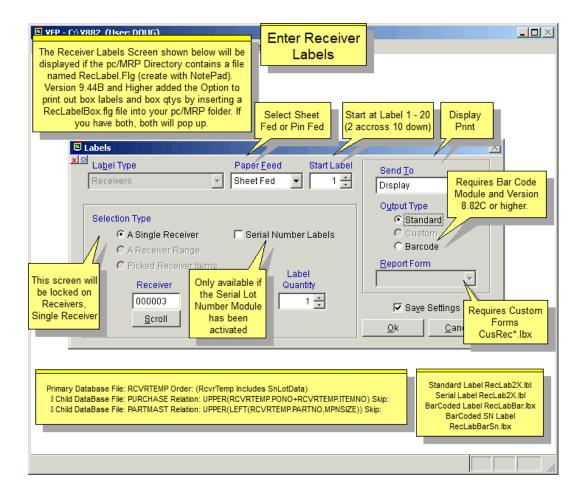
Software Arts <u>recommends setting auto accounting OFF</u> so that receiver mistakes are not automatically entered into the General Ledger.

If **Auto Accounting** is Off for receivers, the accountant should go into Accounting and enter a new I type transaction to debit and credit the general ledger. A "Y" will be inserted into the receiver's Posted field. When Accounting enters an E type transaction (Prints a Check) a "Y" will be inserted into the receiver's Complete field and the Amount Paid field will be increased by the amount paid. pc/MRP offers to print the new receiver.

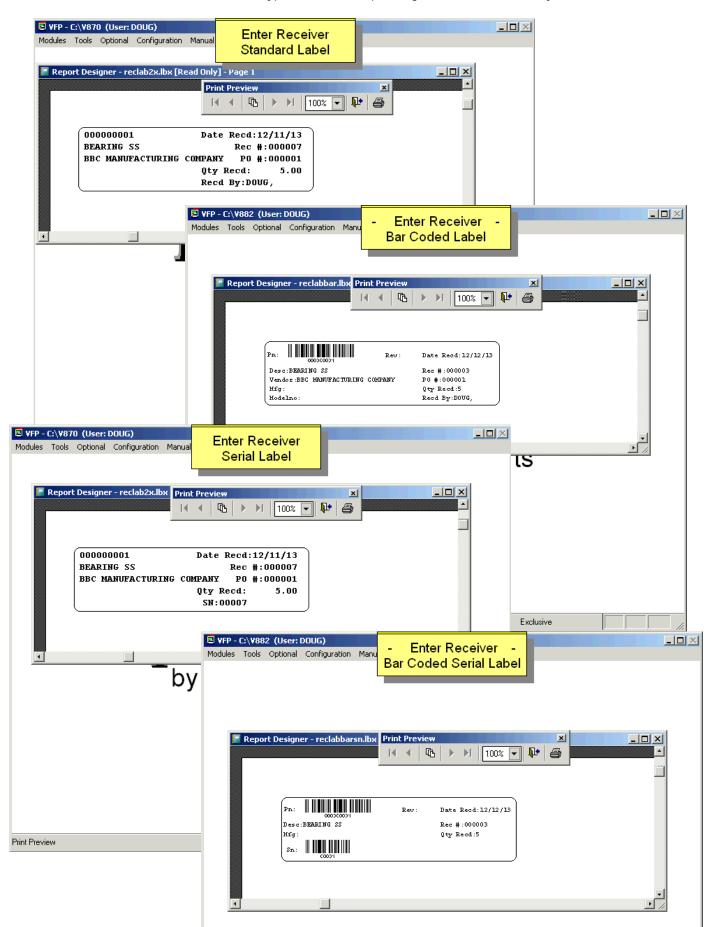


#### 8.1.4 Receiver Data Entry – Print Labels

If a file named **RECLABEL.FLG** exists in the PCMRPW folder, pc/MRP will offer to print receiving labels. Version 9.44B and Higher added the Option to print out box labels and box qtys by inserting a RecLabelBox.flg file into your pc/MRP folder. If you have both both options will pop up.

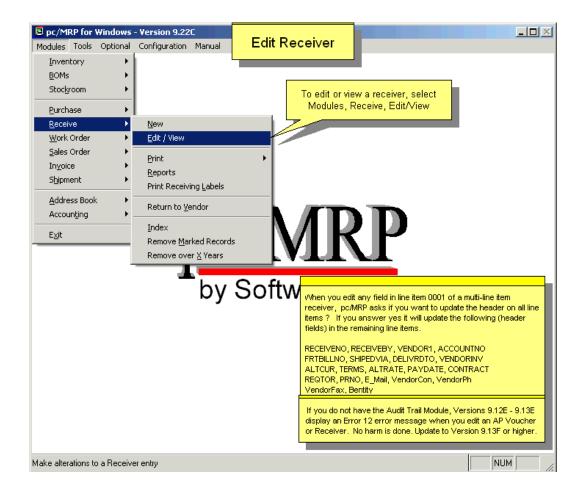


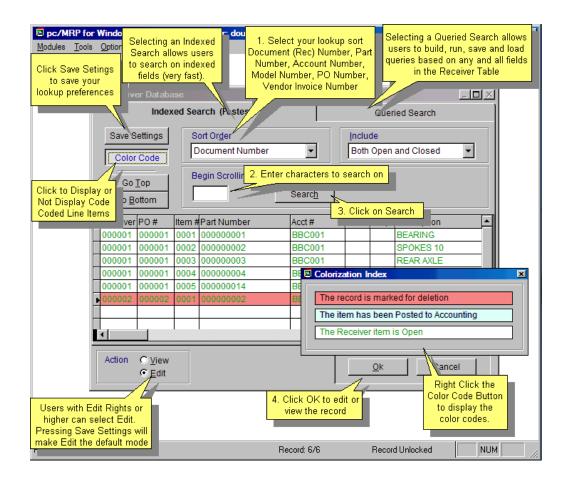
Users will be able to select from several types of labels (depending on what modules they have activated).



#### 8.2 Edit/Delete Receiver

This option allows users to scroll, edit, delete, undelete, or run queries against Receiver records. Select Receive, Edit/View.





Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an **Indexed Search** select the:

- Indexed Search tab
- Desired Sort Order
- Desired Include information: Open, Closed, Both Open and Closed
- Enter the applicable data in the **Begin Scrolling At**: field (i.e. the beginning of a vendor ID)
- Press Search
- Select the desired Action: View or Edit

pc/MRP will automatically scroll to the desired record or the nearest match (as selected). Select the desired record by scrolling and press **Ok** to proceed to the edit screen for that record.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Receiver table. For further details, see Chapter 15.14.1.

Every field in the receiver table is editable. There are several key concepts users must understand before editing.

pc/MRP for Windows - Version 9.40P (User Editing a Receiver – – – ×
The Posted Field is only displayed in the edit mode and is automatically filled in when the imprise incented     g Record     XXX       2     Last Change     12/02/2020     Complete     Document Currency       BASE CURRENCY     V       Date Received     12/02/2020     When the receiver is paid in full.
Involce is posted.       mation       Shipping Information       pc/MRP will automatically insert a "Y" into the Complete Field <ul> <li>Freight is Taxable</li> <li>Discount is Taxable</li> <li>Aux</li> <li>Div</li> <li>Hold</li> </ul> <ul> <li>Posted</li> <li>Business Entity</li> <li>Po Date</li> <li>11/02/2020 V</li> </ul> <ul> <li>Po Date</li> <li>11/02/2020 V</li> </ul> <ul> <li>Po Date</li> <li>11/02/2020 V</li> </ul> <ul> <li>Posted</li> <li>Po Date</li> <li>11/02/2020 V</li> <li>Po Date</li> </ul> <ul> <li>Posted</li> <li>Po Date</li> <li>Posted</li> <li>Po Date</li> <li>Posted</li> <li>Posted</li> </ul> <ul> <li>Posted</li> <li>Posted</li> <li>Posted</li> <li>Posted</li> <li>Posted</li> <li>Posted</li> </ul>
Date Paid     / /     Date Required     11/14/2020       Amount Paid     0.00     In this example the Receiver       Check #     Quantity will be changed from 20 to 10.
automatically filled in when accounting makes a payment.     20.000     1.000000     0.0000       Displayed Currency     BASE CURRENCY     Image: Constraint of the second
Versions 9.43E and higher will block deleting a receiver if it has been posted and not paid     Disc % Freight     Logation     Press the OK Button to save your changes.       In pc/MRP Versions 8.20N and higher. users must have accounting edit rights or higher to edit an invoice that has been posted or paid.     Qk     Cancel

If pc/MRP detects a QB batch number or an accounting transaction, it will display the transaction numbers that need to be edited (to match the edited receiver).

To add an additional item to an existing receiver, do not use the edit module. Instead, use the "Enter new receiver" option. After entering the new receiver and saving it, edit the receiver number to match the previously entered receiver and edit the line item number to match the next line item in sequence.

The **Complete**, **Amount Paid**, **and Check Number Fields** are displayed only in the edit mode and are filled in automatically when Accounting records a payment towards this debt. The Amount Paid field contains the accumulative amount paid. pc/MRP uses the Complete field to determine if a record is open or closed. A "Y" in the Complete field marks the record as closed. An "N" in the Complete Field marks the record as open. These fields should not be manually edited unless the user specifically wants to change the receiver status, amount paid, or check number. Edits made here do not automatically edit the General Ledger. If users are using pc/MRP Accounting, they must also manually edit the General Ledger.

The **Posted** field is displayed only in the edit mode and is filled in automatically with a Y when accounting enters the initial general ledger I (accounts payable) transaction.

Use the delete button to mark a record for deletion. To permanently remove the records from the database table, set an administrative lockout, and then select Receiver, Remove Marked Records.

Users must have Accounting Edit rights or higher to edit a receiver that has been posted or paid (if the Advanced Password Module is activated).

**Note:** In versions below **9.12F** and **9.20**, if the user opened a Receiver record and then clicked Ok without actually changing anything, then the LASTCHANGE field (not displayed on the Edit/View screen) changed to the current date. If the Optional Audit Trail module was activated then the change of the LASTCHANGE field was recorded.

pc/MRP for Windows - V <u>M</u> odules <u>T</u> ools Optional <u>Con</u>	Editing a Bassiver	×					
Editing an Existing Record       If you edit a receiver's cost, qty, discount or delete a receiver, pc/MRP will display the screen shown below, offering to automatically adjust the original purchase order Quantity Received and the Inventory Module's Onhand, On Order and Average Cost.							
Vendor Inform Vendor Acc Vendor Na	You have changed the quantity of the receiver from 20 to 10.						
Sti State /	If you want the system to automatically adjust the part's area quantity, average cost, and the purchase order's quantity received, please select the check box(s). Press the Proceed button to continue. pc/MRP will display this option if DateReceived > LastPhyDat and Option 4, Inventory Adj Method is not set to S						
Cour Item Part Nu 0001 000000 Model Number	<ul> <li>✓ Update Received Qty For the Purchase Order</li> <li>✓ Adjust Average Cost</li> <li>✓ Adjust Inventory Area Qty down by 10 and correct the On Order Qty</li> <li>Area To adjust STORES</li> </ul>						
pc/MP will recalculate the Average Cost provided the receiver contained the	Proceed     Cancel     CY     Area       Click on the     0.00     STORES						
original cost and quantity, the receiver date > the last physical/cycle count date, this is the last receiver for this part number, and the	Proceed Button If the part is serialized, the user will have to manually edit the serial lot number master and detail record for this receiver. Editing an invoice automatically edits						
parts were originally received into a net-able area as per Option 50.	Rights or higher to edit a receiver that has been posted or paid. f)						

If a user edits or deletes a receiver, pc/MRP will allow the option to automatically adjust:

- If the user edits the receiver quantity, pc/MRP will offer to Update the Purchase Order's quantity received and the Inventory On Order and Area Quantity, provided: The Receiver's Date is later than the last Physical Inventory Date for that part number.
- If the user edits a receiver's cost, quantity, or discount, pc/MRP will offer to re-calculate the weighted average cost for that part number provided:

The receiver's qty cost or discount or deleted or undeleted was adjusted and The receiver's original ave cost >= 0 and The part's original inventory qty >= 0 and The receiver is the last receiver for that part number and The receiver's date is a later date than the last physical inventory date and The receiver's cost >= 0 and The received yt > 0

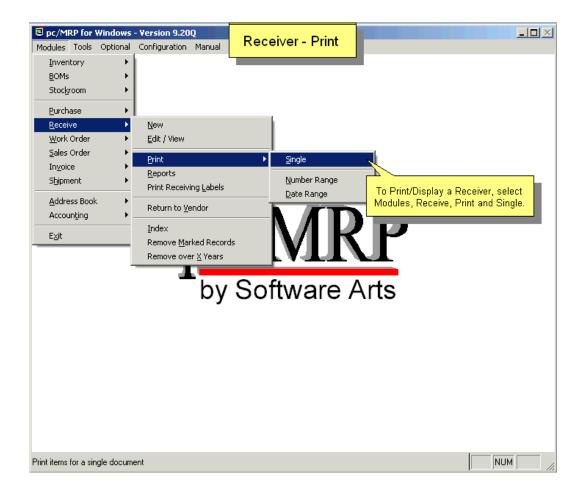
If the part is serialized, the user will need to adjust the serial/lot master and detail records manually.

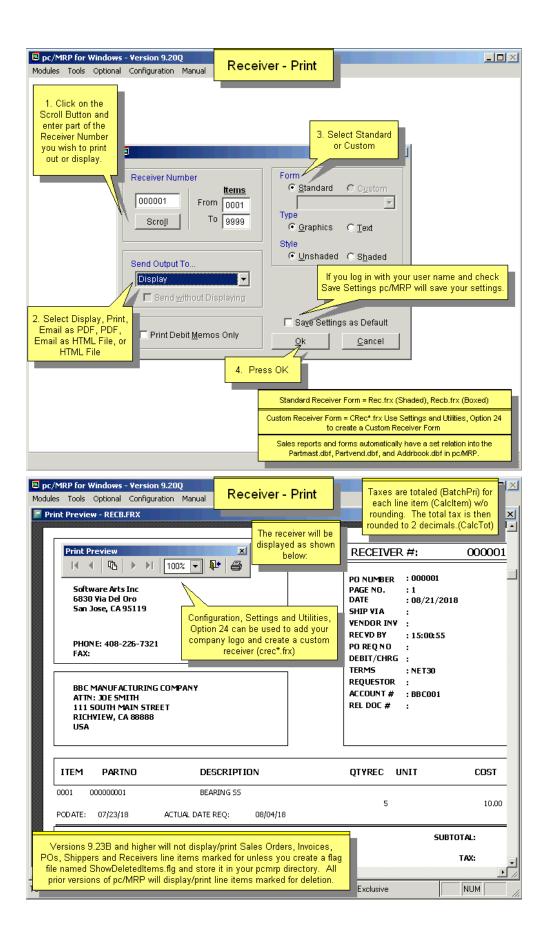
If any of these conditions is not met, pc/MRP will NOT re-calculate the weighted average.

#### 8.3 Print/Email Receiver

This option will print, display, PDF, or send the receiver to email. Furthermore, if the flag file **DMMAILLB.FLG** exists, an address label for the vendor on that receiver will automatically be created from the CUSTARD\*.LBX or the CUSARD\*.LBX.

If you send an e-mail directly from pc/MRP, use MS Outlook. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book. If you create a PDF document, you can save this document and attach it to an e-mail created in your existing e-mail program.

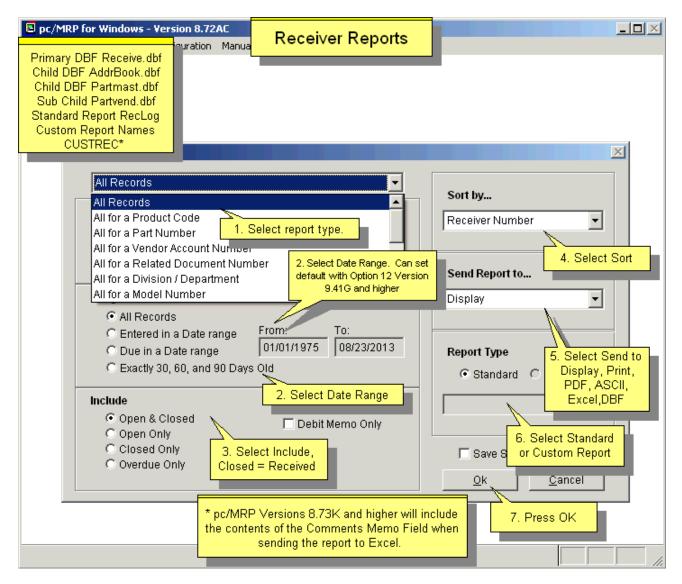




## 8.4 Reports

Selection 4 allows you to print out or display standard receiver reports (reclog.frx) and custom receiver reports (csustrec.frx). See Section 15.4.1 for instructions on creating custom receiver reports.

The reports can be displayed, printed, or sent to a file (PDF, ASCII, XLS, DBF). If the report is sent to Excel, the rows will be filtered but all of the fields will be included.



#### 8.5 Print Labels

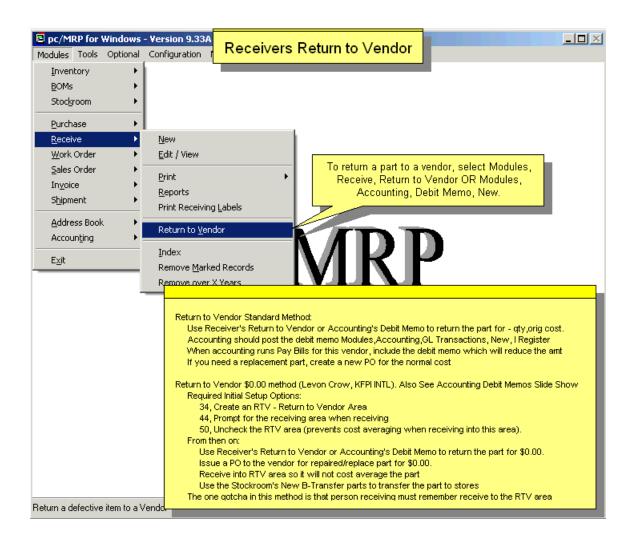
Select Modules, Receiving, Print Labels to print labels for receivers as shown below:

pc/MRP for Windows - Version     Print Receiver Box Labels	×
Item #       Part Number       Description       Quantity       Boxes         0001       000000001       BEARING 3.000D x 1.00ID 1.00WIDE SS       10.000       1         0002       000000002       SPOKES       100.000       2         Enter the number of boxes per line item	
Receiver #       000002       Delivered To         Item #       RecLab.Lst contains a list of labels RecLabQty (Qty XX of XX)       FOB         Part Number       RecLabBox (Box XX of XX)       FOB         Manufacturer       Custom labels must start with CusRec*.lbx or CustRec*.lbx       Output To       © Display         Date Received       01/03/2007       Output To       © Display       © Printer	
Label Form       RECLABQTY.LBX         Check to specify       guantities per box         Start on Label #       1         Start at Label       Start at Label         Specify Individual Box Quantities       Help         Ok       Cance         Number       Primary Database File: LABPRNT Order (Subset of Receiver.dbf):         Child DataBase File: ADDRBOOK Relation: UPPER(ACCOUNTNO) Skip:       Press OK         Child DataBase File: PARTMAST Relation: UPPER(LEFT(PARTNO,MPNSIZE)) Skip:       Exclusive	

Configuration, Settings & Utilities, Option 24 can be used to create custom labels (CUSTREC\*.LBX see Section 15.4.3).

Use Notepad to add the label filename to the list found in the file **RECLAB.LST** which resides in the pcmrpw directory.

To automatically print labels for the items just received, see Section 8.1.4 above.



- 8.7 Queried Search Overview (see 15.14.1)
- 8.8 Indexed Searches (see 15.14.2)
- 8.9 Index (see 15.14.3)
- 8.10 Remove Marked Records (see 15.14.4)
- 8.11 Remove Over X Years (see 15.14.5)

# 9 Sales Order (Order Entry)

# 9.1 Overview. Enter a New Sales Order

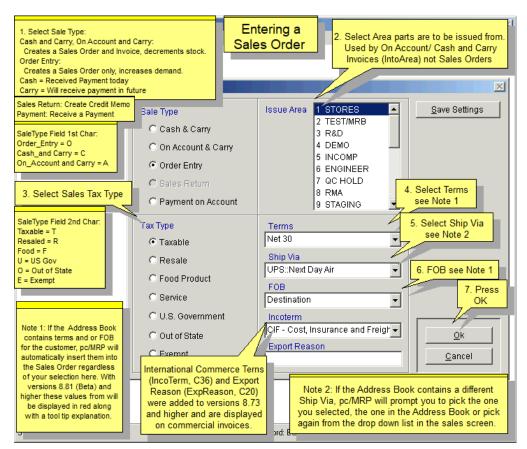
pc/MRP for Windows - Modules Tools Optional	Sales Order Overview
Inventory BOMs Stockyoom Purchase Receive Work Order Sales Order Invoice Shipment Address Book Accounting Exit Re-Index the	To enter a new sales order, select Modules, Sales Order, and New       Edit an existing sales order         Edit / View       Duplicate an existing sales order         Print/Display/Email a sales order       Print/Display/Email a sales order         Print/Display/Email a sales order       Print/Display sales order reports         Print       Recalculate the demand for all parts listed on open sales orders.         Audit On-Demand Quantities       Remove all sales orders marked for deletion         Index       Remove all sales orders over X years old
sales orders	Import Sales Orders from Web Site
Requires the optional "Import sales orders from website module". Pre Print Shipping Bo Labels (Version 8.73C a higher). This option will be visible if a file name SALLAB.LST is in the pc/MRP directory.	and Optional alternate currency. only Create blanket sales orders or duplicate an existing SO. ed Integrate with your ShopSite Internet store.

pc/MRP's Sales Module allows you to enter, edit, and print sales orders and print sales order reports. If a sales order is entered as a "cash and carry" or as an "account and carry" order, pc/MRP will create an invoice and decrement the on hand quantity in inventory (configurable in **Option 4**). If a sales order is created as "order entry" (to be delivered at a later date), pc/MRP will create a sales order and increase the on demand quantity. pc/MRP's Sales Module will provide numerous reports including All Overdue Sales Orders, All Sales Orders for a Month, Sales Tax, Sales Commission, and Cost of Sales. Each Sales Order can contain up to 9999 line items (settable via Settings & Utilities, **Option 63**). Each line item has a due date and can be taxable or non-taxable. An online slideshow is located here: <a href="http://www.pcmrp.com/mrp101/saleselectnew.htm">http://www.pcmrp.com/mrp101/saleselectnew.htm</a>

#### 9.1.1 Enter a new sales order step 1, Select Sales and New from pc/MRP's Main Menu

Select Modules, Sales and New as shown above and the following screen in step #2 will appear.

## 9.1.2 Enter a new sales order step 2, Select Type, Area, Terms, Ship Via, Tax and FOB



Select the Sale Type (A single character will be saved as the <u>first character of the **Saletype**</u> field):

- Cash and Carry (C) -- pc/MRP generates a Sales Order, creates/prints an Invoice and deducts stock.
- On Account and Carry (A) -- pc/MRP creates a Sales Order, creates/prints an Invoice and deducts stock.
- Order Entry (0) -- pc/MRP creates/prints Sales Order, increases on demand in inventory.
- **Sales Return** -- This creates a credit memo. See the credit memo chapter for more information. When creating a sales return, users can choose to re-stock the returned items.
- **Payment on Account** -- This is the same as the R type transaction in the Accounting GL. See the chapter on the Accounting GL for more details.

Select **Tax Type**. **Note:** If the Address Book contains tax type for the customer, pc/MRP will automatically insert that tax type into the sales order, regardless of your selection here. A single character (Taxable=T, Resale = R, Out of State = O, Exempt = E etc.) will be saved as the <u>second character of the **Saletype**</u> database field. Select the **Issue Area** (where the parts and assemblies will be issued from).

Select the **Terms**, **Ship Via** and **FOB** from their respective drop down list boxes. The drop down list boxes can be pre-populated by going to Configuration, Settings and Utilities, and selecting **Option 52**. **Note:** If the Address Book contains Terms or FOB for the customer, pc/MRP will automatically insert the terms in the Address Book regardless of your selection here. The overwritten value will turn red and a tool-tip-message explanation appears. If users click into the field (acknowledge the value), the red color changes to black. **Note:** If the Address Book contains a different Ship Via, pc/MRP will prompt you to pick the one you selected, the one in the Address Book or pick again from the drop down list in the sales screen.

International Commerce Terms (IncoTerm, C36) and Export Reason (ExpReason, C20) are displayed on commercial invoices.

Press the **Save Settings** Button to save the current settings of this screen (for the current user). Press the **OK** Button to move to the next screen.

#### 9.1.3 Enter a new sales order step 3, Select the Customer

Step - C:\V934 (User: DOUG) Modules Tools Optional Configuration Manual	Entering a Sales Order	Call Stack: Sale.prg
Solvo # 00010 Order Date 04/23 Order Date 04/23	Order Status	EnterSal.prg EditSal.prg SaleScr.Scx
Customer Customer	y Item Info	Accounting Info
Poofuress Lookup	Account #	Next
Customer a	Addr Type	Items/Notes
Attention	Terms Visa	Links
Street	Credit Card [None]	
	Customer PO#	
City	Contact	<u>A</u> dd Item
State / Zip	Related Doc #	Clone
Country	Territory	Brea <u>k</u> down
Phone / FAX	2. Select the company from	Delete
Select the desired Address record	the list and press Enter.	
Id Name		Pname ptions
▶ ABC001 ABC MANUFACTURING COMPA	NY ATTN: JOESPH (	CARTRIGHT THE 3RD gbook
ALL001 ALLIED ELECTRONICS	ATTN: JOHN DO	E eate Part
AVN001 AVNET ELECTRONICS		
BBC001 BBC MANUFACTURING COMPA		
CAL001 CA STATE BOARD OF EQUALIZ		pproval
CAN001 CANA MANUFACTURING CORF	ORATION ATTN: JOESPH (	
		▶ nished
XO	<u></u> k	<u>Cancel</u>
Addrbook (c:\v934\addrbook.dbf)	Record: 1/10	Record Unlocked NUM //

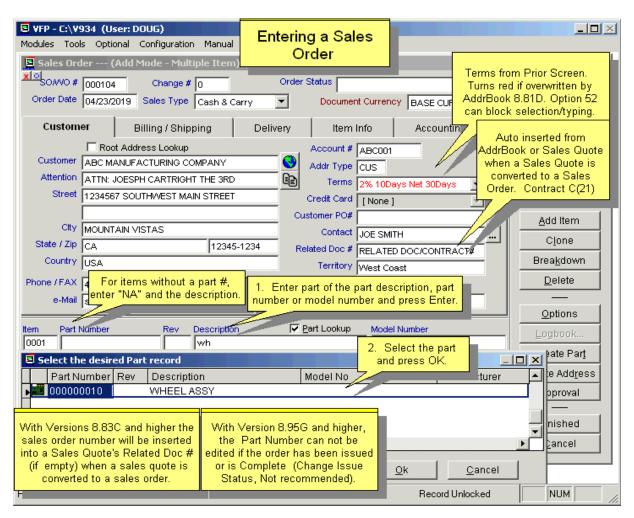
Place the cursor in the **Customer** Field or the **Account #** Field. Type the first few characters of the customer name or the Account #. A list of customer addresses will appear. Scroll to the desired customer and hit [Enter] or double click. All the address information will be entered automatically. If alternate billing and/or shipping addresses exist in the address entry for this customer, pc/MRP will automatically populate the BILL TO and/or SHIP TO fields.

The "Account #" and "Part #" fields are always linked to the Address Book and the Partmaster. This means that the entries to these two data fields must be valid numbers contained in the Address Book or the Partmaster.

Sales Order and Work Order numbers are automatically incremented. Though alpha characters are acceptable it is recommended to let pc/MRP automatically increment the Sales and Work Orders.

The **Related Doc#** (Contract) is auto-inserted from the Address Book, <u>or</u>, if a PO was created from this Sales Order (by selecting "Create from Sales Order" when creating the PO), this field contains the PO# and line item#.

## 9.1.4 Enter a new sales order step 4, Select the Part



Place the cursor in the Part # Field, Description Field or Model Number field. Type in the first few characters of the part #, part description, or model number. A list of parts matching the characters will appear. Scroll to the desired part and hit [Enter] or double click. All the necessary data will be entered automatically. At this point you can click on the Part Number – View button above the part number field, and view (not edit) the item in the Inventory (provided you have at list View rights to the Inventory module). For items without a part number, enter "NA". Then manually enter the description and any model number.

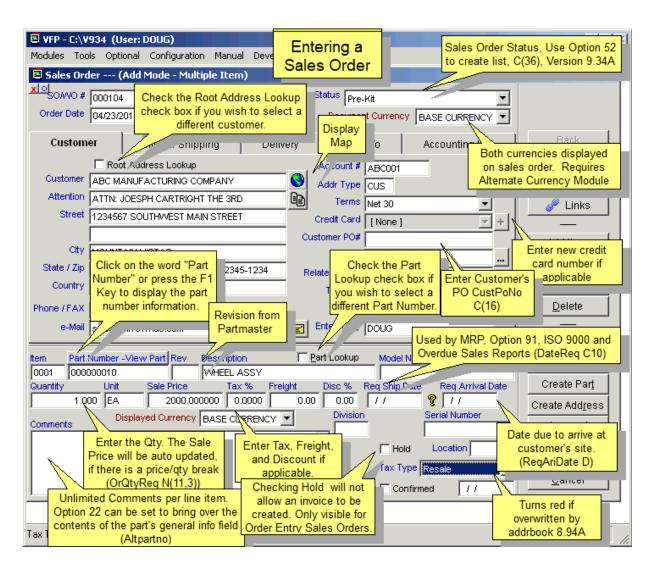
VFP - C:\V913 (User: DOUG) Modules Tools Optional Configuration	Version 9 13c or Higher
SO/WO # 000101 Cr Invent Order Date 05/19/2017 Sale:	Part # 000000010 Type Assembly Revision
Customer Billing Q	tys \ Costs Vendors Sales Prices Details 1 Details 2
Attention ATTN: JOE SMITH Street 111 1. Press the	Costs:       Average       290.000000       Area       Qua         Standard       290.000000       Assembly       1       Stores         Last PO       730.000000       View BOM       Button to display the BOM.
Ctty Rich Part Button to display the Inventory Country USA Screen Phone / FAX 980- e-Mail tem Part Number - View Part	O00000010: WHEEL ASSY (View Mode)           Item         Type         Part Number         Part Description           1         P         000000001         BEARING, 3" OD x 1" ID           2         P         000000002         SPOKE           3         L         000000013         LABOR INSIDE           4         L         000000014         LABOR OUTSIDE
00001     000000010       Quantity     Unit       10.000     2       Comments     Displayed Cu	Component       Ref. Designators       Miscellaneous         Item #       1       BOM Qty       1.0000         Part #       000000001       Type       Part         Description       BEARING, 3" OD x 1" ID       Incomponent
Bomedit	Manufacturer         1match/ven good fuzTest            Record: 1/4         Exclusive         NUM         //

The unit **Sale Price** (salepric) of the assembly or part will be automatically inserted into the sales order and will reflect any price per qty break the customer might have (let it be the sale price of one of the 5 levels or a customer specific price). If you have the same part on more than one line, then each sale price will reflect the price for the quantity on the individual line, not for the total. If you want all line items (with that certain part) reflect the price for the total qty, then do the following: Enter one line item for the total quantity. This will insert the price for the total qty. Now use the Breakdown button to break the total quantity into as many lines as you need, and enter the desired quantity and due date for each line. Now each line item (with that certain part) is reflecting the price for the total qty.

The **Purchase Cost** (po\_cost) of the assembly or part will be automatically inserted into the sales order. Using settings and utilities **Option 35**, the unit cost can be set to average or standard and be comprised of component part costs only, component and labor costs, or component, labor and overhead costs.

Users can set the sales price lookup to either Level/Quantity (method set by default) or to a Category Matrix using **Option 67** in the settings and utilities. For a complete description of both methods, see the Inventory chapter.

## 9.1.5 Enter a new sales order step 5, Enter Quantity, Tax, Freight and Discount



Enter the **Quantity** (Orqtyreq). **Unit** and **Sale Price** (saleprice) will be updated automatically, if there is a price/quantity break, the price data will be different for different quantity levels.

Enter the **Req Ship Date** (Datereq). This allows pc/MRP to track and print Overdue Sales Order Reports and ISO 9000 Customer Performance Reports. Set **Option 91** to require or not require a Req Ship Date.

The **Customer PO Number** (Custpono) and **Customer Contact** (Custcont) and any known **Freight** or handling charges should be entered. If the entire amount for the Freight is known, it can be entered once, in one line item in the freight field or entered individually for all line items. The freight subtotals for all line items will be totaled and printed out on the forms and reports. **Entered By** will be populated with the user's login name.

The Req Arrival Date (reqaridate) is currently used for information only.

The **Related Document Number** (Contract) is a 21 character scrollable field. It can be used to enter a related contract number, serial number, or document number. If the customer has a Related Document Number in the Address Book, it will be carried over into the Sales Order. If the Sales Order is being converted from a Sales Quote (see in Optional Modules), the Sales Quote's Related Document Number will be carried over into the Sales Order. If the Sales Quote's number into the Sales Order. If the Sales Quote's number itself will be inserted into the Sales Order Related Document Number, then the Sales Quote's number itself will be inserted into the Sales Order Related Document Number field, followed by a dash (-) and the change order number.

Each line item can include as many **Comments** as necessary.

Each line item can have one **Serial Number** (serial). If multiple serial numbers are needed per line item then you may need the optional Serial Lot Number module. (Chapter 16.10 in this Manual)

The **Division** Field (division) is automatically populated from the Inventory or Address Book Module depending on the setting in Configuration, Settings and Utilities, **Option 78**.

Checking the **Hold** Checkbox (hold) will prevent an invoice from being created for this sales order. When generating an MRP, on hold sales orders can be included or not included. This checkbox is available only for the Sales Type of "**Order Entry**".

The **Rev** field (revlevel) is automatically populated from the inventory module.

9.1.6 Enter a new sales order step 6, Enter Credit Card information.

	g credit card numbers into a Sales Order (Version 8.56 and higher)
Soles Order (Edic)           SO/VO #         000104         Change #           Order Date         06/15/2011         Sales Type           Customer         Billing / Ship	1. In order to select or enter a credit card number, Visa, Master Card, American Express or Discover must be selected.       2. If this customer already has credit card is listed for this customer cards, select the credit card to be if the selected.       3. If no credit card is listed for this customer cards, select the credit card info by pressing the + button.
Customer ARROW ELECTRONICS	Addr Tyn CUS
5. Enter/Edit the Credit Card Expire Date, and CVV Code. Number will display an error r Expire Date will turn the text ■ creuics carus associated with Card # Holder 4788-2500-0002-8291	Invalid CC nsg. Invalid boxes red. Customer PO# 5055 Contact JOE SMITH Delete
4. Click on the New Card Button New Card Remove Card 7. Press	Holder's Name       Joe Smith         Street       1310 Main Street         City       Portsmouth         State       CA         OK to Save       QK         QK       Cancel         CK       Cancel
Coard (c:\pomrpw856\coard.dbf)	Record: None Re-

pc/MRP allows you to enter or select a credit card to use with the sales order.

## 9.1.7 Enter a new sales order step 7, Enter Billing and Shipping Addresses if necessary

SHEET 1	f <b>or Windows</b> - ols Optional	Version 8.730 Configuration	Entering	g a Sales (	Order		<u>_</u> _×
SOAVO #		1ode - Multiple Change # 0 Sales Type 0	edi	on the Billing/ t the billing and	l shipping ad	dresses. by	<u>B</u> ack
Custom	er Bi	illing / Shipping	9 Delive	ery Item	Info	isplay Map	Next
Dill Te	Bill To Addre		Enable Lookup	Ship To Addr		Enable Lookup	Items/Notes
		ACTURING BILLI	NG	ABCD MANUFA		≝ =	
		INTS PAYABLE		ATTN: RECEIVI			Add Item
Sireer	1234567 SOU	THWEST BILL ST	REEI	1234567 SOUT	HWEST RECV S		
Cttv	I MOUNTAIN BIL	19		MOUNTAIN SHI	>		kup check boxes if you kup different billing or
State / Zip			12345-BILL		-	shipping address.	If a customer has
	USA-BILL		12010-DILL	USA-SHIP			shipping addresses, esses in the address
Contact							001S2, ABC001S3, 1B3. Now when you
Email	ŕ			í –		check the Enable Loo	kup Check-boxes the
	Number 000010		scription HEEL ASSY	∏ <u>P</u> art Lool	wp Model Num		ipping addresses will together.
Quantity		Sale Price	Tax % Freig		Req Ship Date		Create Par <u>t</u>
1	IOO EA	2000.00000		0.00 0.00 Divisio	08/08/2013	8     08/15/2013   Serial Number	Create Add <u>r</u> ess
Comments	Displayed Curre	BASE CU	RRENCY <b>Y</b>		<u>.</u>		
				24	Hold	Location	Einished
	Т	he Division Fi	eld can be auto	matically	Тах Туре	Taxable 💌	Cancel
	in	serted from th	ne Partmaster o	r Address	⊡ Co	nfirmed //	
	E		ption 78 in Con gs and Utilities				
			ge and ethilies				

If the Billing Address and/or Shipping Address are different from the Customer Address, you can manually enter the appropriate data fields. Or, (if **Enable Lookup** is checked), you can type in a few characters of the customer name in the "**Bill To**" and/or "**Ship To**" fields. Press [Enter] and the Address Book window will appear allowing you to select the desired addresses.

## 9.1.8 Enter a new sales order step 8, Enter Delivery Information if necessary

	eight WO pkging.
SO/WO # 000104 Change # 0 enter additional delivery invoice. If blank	Auto inserted into , shipper will get partmsaster
Customer Billing / Shipping Delivery Item Info Accounting Info	Next Items/Notes
Ship Via UPS::2nd Day Air Shipped Case Gty 0,0000 in Cude	able Items will be ed as line items in pment Document.
Vessel     FOB will be red if it does not match customer's default FOB (Version 8.81D)     Net Weight       Port of Loading     Imatch customer's default FOB (Version 8.81D)     Imatch customer's default Imatch customer's default	Clone
Destination         Tracking Numbers (one per line)         Track           Country of Origin         019         Tariff Code         Desconsection	Brea <u>k</u> down
Export Reason Clic Incoterm CIF - Cost, Insurance at Freight  Clic	ck to track pkgs
tem Part Number Rev D. Country of Origin*, Tariff Code*, umber Export Reason, and IncoTerm are	Logbook
Quantity         Unit         Sale Price         available on pc/MRP Version 8.73C         te         Req Arrival Date           1.000         EA         2000.0000         and higher. * From Partmaster.         ? <td?< td="">         ?         ?</td?<>	Create Part Create Address
Comments Displayed Currency BASE CURRENCY	
Internet Explorer must be your default browser if you wish to track DHL and Postal Services	<u>F</u> inished <u>C</u> ancel
and Postal Services Packages	

UPS, FedEx, DHL and Postal Service **Tracking Numbers** can be entered into the sales order and tracked by clicking on the **Track** Button. Internet Explorer must be your default browser if you wish to track DHL and Postal Service Packages.

When you click the Track Button, pc/MRP will track the package. pc/MRP will first look to the **Ship Via** Box to see which shipping vendor (UPS, FedEx, DHL, Postal Service, TNT) to track. If the Ship Via Box is blank or you used multiple vendors pc/MRP will see if the tracking number is proceeded by UPS, FEDEX, DHL, or TNT to see which shipping vendor to track. If all of the above is blank, pc/MRP will prompt you to select a shipping vendor.

If an item is checked as **Shippable** (shippable), the item will be displayed on the shipment module line items. Labor type part numbers would not be checked as shippable (they would appear on the invoice but not on the shipment documents).

**Gross Weight** (grssweight) and **Net Weight** (netweight) will not automatically come from the inventory module. If they are entered here on the Sales Order, they will be carried over to the Invoice, and from there to the Shipment module. Otherwise the Shipment Module gets the weight directly from inventory.

Country of Origin and IncoTerm come from the Partmaster.

## 9.1.9 Enter a new sales order step 9, Enter Item Information if necessary

Pc/MRP for Windows - Version 9.36     Modules Tools Optional Configuration     Check, if you intend     to create dedicated     work orders for this     sales order.     Module.     Module.     Click on Item     Tab to enter or     edit item     information     Click on Item     Tab to enter or     edit item     information     Sets Stockroom Ise     to Sub-assys Only     Partmaster. Disa     Mfg. Not Visible     Account a     Module.     Issued to MFG and     Option int Currency     Module.	/. Populated from abled if Issued to e if Cash or On
Require Dedicated Work Orders     Issued to MFG N Issue Parts & Subs Only       Web Site Sales     Cty Assembled     0       Order Number     DateShip C(10) DoNotUp	
Date Shipped       / / /         Web Order Number       Original Reg Ship Date       07/15/2019         Sales Site       Sales Qu / L quiry Date       07/15/2019         Manufacturing Site       Contains Original Ship Date when sales order is entered. Used by ISO 9000 Sales Report, Editable = T, Allowable Days Early = 9, Run       art Aux 1         Reference No. 2       9000 Sales Report, Editable = T, Allowable Days Early = 9, Run       Aux1 and Aux2	Add Item Clone Brea <u>k</u> down Delete
Allowable DaysLate = 0.       from partmast         tem       Part Number -View Part       Rev       Description       Part Lookup       Model Nume       Run C(10) 9.34A         0001       000000010       WHEEL ASSY       Disc % Reg Ship Date       Reg Arrival Date         1.000       EA       2000.000000       0.000       0.00       0.00       07/15/2019       ?         0isplayed Currency       BASE CURRENCY       Division       Serial Number         Hold       Location       Tax Type       Resale          Confirmed       / /       /	Options Logbook Create Part Create Address Approval <u>F</u> inished <u>C</u> ancel
Partmast (c:\pcmrpw936\partmast.dbf) Record: 5/12 Record Unlocked	NUM //

If the sales order requires dedicated work orders, check the **Require Dedicated Work Orders** checkbox. See the Work Orders Chapter, Section 13.1.10 and .11 for details on this feature.

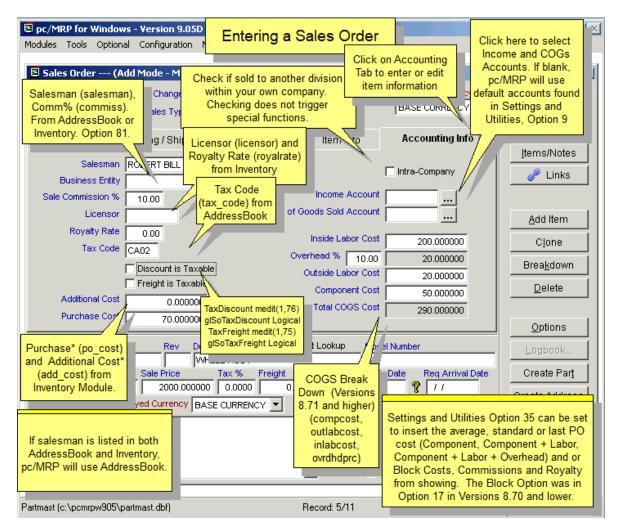
If Issue Parts & Subs Only is checked, only top parts and sub-assys reporting to this assembly will be issued.

The **Original Req Ship Date** (ordatereq) is automatically populated when the Req Ship Date is first entered (if it would otherwise be empty). This field does not change, even if the Req Ship Date is edited several times.

The Sales Quote Inquiry Date is inserted from the Sales Quote (if applicable).

The Part Aux 1 and Part Aux 2 fields are populated from the Partmaster.

## 9.1.10 Enter a new sales order step 10, Enter Accounting Information if necessary



The **Credit Account** (cacct1) field is automatically populated from the part or assembly entry in inventory. If there are several different accounts per sales order, pc/MRP will default to the standard business income account. If the Credit Account is the same throughout the sales order when the transaction is posted the account number in this field will be credited in the GL.

The **Purchase Cost** (po\_cost) of the assembly or part will be automatically inserted into the sales order. Use Settings and Utilities **Option 35** to import the average or standard cost and include or not include labor and overhead costs. The **Additional Cost** (Addcost) field is a field currently <u>not</u> used in any calculations.

Check the Freight is Taxable (taxfreight) and Discount is Taxable Checkboxes (taxdiscnt) if they are taxable.

Check the **Intra-Company** (intracomp, logical) checkbox if the sale is internal to another division within the company.

**COGS** breaks down into inside labor cost, overhead, outside labor cost, component cost (inlabcost, ovrhdprcnt, outlabcost, compcost).

Each line item can have a separate sales discount (**Disc %**), **Salesman**, **Sale Commission %**, **Licensor** and **Royalty Rate**. The Licensor and Royalty Rate fields are used if you have to pay royalty fees. The Disc % may come from the address book or be manually entered. **Notes**: Configuration, Settings and Utilities, **Option 81** sets whether the sales commission should come from the Inventory or from the Address Book. If Salesman is listed both in the Address Book and Inventory, pc/MRP will use the Address Book. If the customer's **Sales Level**, in the address book and a **Disc %** both have values, both are used in the calculation.

## 9.1.11 Enter a new sales order step 11, Add Another Line Item or click on Finished

Click the "Add" Button to enter another line item to the Sales Order.

Once you have added additional line items the following Navigational Buttons will be enabled:

- Click on the **Back** Button to see the prior line item.
- Click on the **Next** Button to see the next line item.
- Click on the **Jump To** Button to see a list of all of line items. Select the item you want to review.

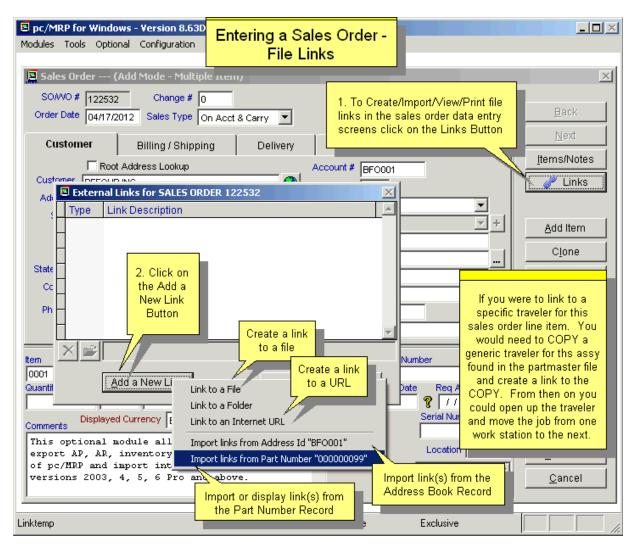
#### 9.1.12 Enter a new sales order step 12, Enter the Boiler Plate and Review the line items

pc/MRP for Windows - Version 8.90AD     Modules Tools Optional Configuration Manu     Enter	ering a Sales	order				
Solver Date 08/14/2015 Sales Type Order Entry	Back Next					
Customer Billing / Shipping De	elivery Iterr	ı Info	Accounting	y Info	Items/Notes	
Sales Order Line Item Edit Form				<u> </u>	🛛 🥜 Links 🔤 🗌	
Item # Part Number Description	Req Shi	pDate Oro	der Quantity U	Init Sale Price 🔺		
0001 000000010 WHEEL ASSY	10/10/2	015	1.000000	2000.000000		
▶ 0002 000000001 BEARING, 3" OD × 1" ID	10/10/2	015	1.000000	20.000000	Add Item	
		dit Date Rec			Clone	
	Quantit	y and Unit P	<sup>r</sup> rice		Brea <u>k</u> down	
	_				<u>D</u> elete	
				Þ		
Enter Boiler Plate Notes:					<u>O</u> ptions	
5% Penalty on all overdue invoice payme	ents.	Sub Total	: 2	,020.00	Logbook	
		Discount:		0.00	Create Part	
		Tax: 0.00		0.00		
pc/MRP will auto insert the sales boiler plate text (if any) from		Freight:	jht: 0.00		eate Add <u>r</u> ess	
Settings and Utilities, Option 22). Users can edit and save the Boiler		Total:	2	,020.00	Finished	
Plate Notes for this sales order. Running Totals					<u>r</u> inisned	
	Running Potal	OK		ancel	<u>C</u> ancel	
Displayed Currency: BASE CURRENCY						
Salesitems	Record: 2	2/2	Exclusive			

To enter/edit the sales order boiler plate and review/edit the sales order line items, click on the Items/Notes Button.

pc/MRP will automatically insert the **Sales Boiler Plate** text (if any) from Configuration, Settings & Utilities, **Option 22** into the **Boiler Plate Notes** edit box. Users can modify this text for this current Sales Order. This will not change the boiler plate text for other (existing or future) sales orders.

## 9.1.13 Enter a new sales order step 13, File Links



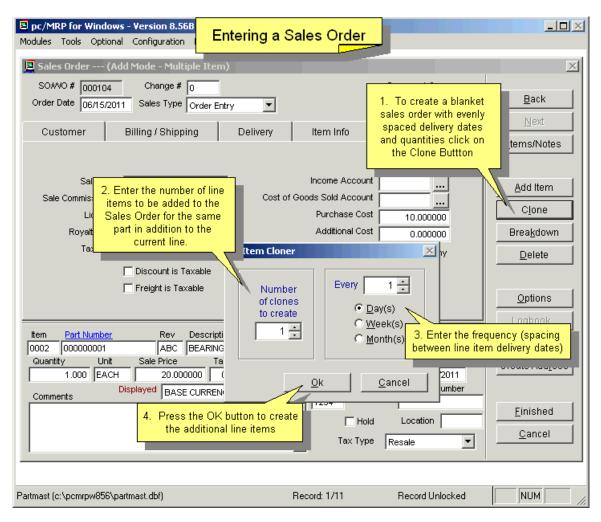
#### 9.1.14 Enter a new sales order step 14, Click on Finished to save the sales order

pc/MRP will increase the on demand qty of each of the items ordered. If this was entered as an on account and carry or cash and carry sales order, the on-hand qty of each of the items would be decremented.

Click the "Finished" button to save the sales order.

**Note:** pc/MRP will check all the data validity. If the Customer Account # or Part Number is not valid (cannot be found in the Address Book or in the Part Master), the user will be prompted to take corrective actions. If the Sales Order is for a non-standard part, enter NA in the Part # field and pc/MRP will not check the Part Master. If the total of this new Sales Order plus any existing open invoices exceeds the customer's credit limit, pc/MRP can be made to prompt a warning. If desired the ability to override the credit limit can be password protected. (See **Option 53** in Configuration, Settings and Utilities for further detail on the credit limit warning.)

## 9.1.15 Other Buttons and Keys, Clone Button



Click on the **Clone** button to create a blanket sales order with evenly spaced delivery dates and quantities. The Req Ship Date has to have a valid date. The "**Number of clones to create**" means the number of line items to be added to the Sales Order for the same part in addition to the current line.

Enter the desired parameters and click "OK". Clicking "Cancel" will return to the Sales Order entry screen without adding any line items.

# 9.1.16 Other Buttons and Keys, Breakdown Button

Customer Billing / Ship	tiple Item)	Sales Order	Doct blar BAS with date qua	. To create a hket sales order ovaried delivery es and or varied ntities, click on he Breakdown button	LOX Back Next ams/Notes
Item Breakdown     Part# 000000001     Description BEARING, 3" OD x 1"	ID	Total Red Accounte Still Ne		3.000 3.000 0.000	Add Item
1.000 03/03/2011 2.000 03/01/2011 0.000 / /	0.000 /		0.000		Brea <u>k</u> down Delete
0.000 / / 2. E 0.000 / /	inter the desired quant respective delivery da	ities tes.	0.000		Options
0.000 // 0.000 // 0.000 //	0.000 /		0.000 0.000 0.000	11 11 11	Create Par <u>t</u> reate Add <u>r</u> ess
0.000 / / TIP: If you are going to sell the san	ne part on multiple line		0.000	11	<u>F</u> inished <u>C</u> ancel
with different due dates, enter a li give you the lowest price based of Breakdown Button. Enter the qty OK Button. Each line item will n	on the total qty. Press for each date and pres	the sthe		<u>Cancel</u> Press the Ok b create the line i	

Click on the "Breakdown" to create a blanket sales order with varied delivery dates and or varied quantities.

On the top of the window is the part that you are ordering followed by the total number of parts you have entered in the Sales Order entry screen.

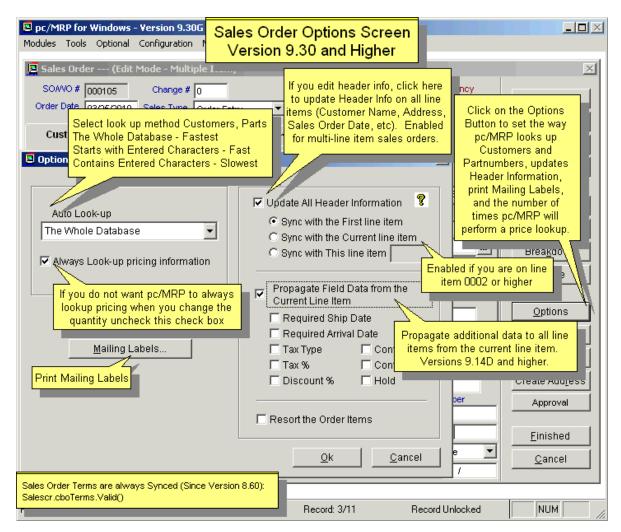
Enter the number of parts and the delivery dates in the highlighted columns.

As the numbers are entered, "Accounted for" will increase to reflect the total that has been entered so far.

"Still needed" indicates the number of parts left. It will become zero when all the required number of parts has been entered with delivery dates.

Click "OK" when all the entries are done. **Note:** if the total of all the deliveries does not match the number entered in the Sales Order entry screen, a warning will appear. Select "OK", pc/MRP will accept all the deliveries entered and discard the original quantity entered in the Sales Order entry screen. Click "Correct" to go back to the Breakdown window to correct the entries. Click "Abandon" will discard all the entries and go back to the Sales Order entry screen.

# 9.1.17 Other Buttons and Keys, Options Button



Click on the **Options Button** to perform the following tasks.

The **Auto Look-Up** will determine what appears in the customer list and the part number list during the selecting customer and selecting parts operations. **The Whole Database** window will contain the whole database starting at the first matching name. This is the fastest look-up method. **Starts with Entered Characters** will only show the entries starting with the characters entered in the data field. **Contains Entered Characters** will show all the entries as long as they contain the characters entered. This is the most versatile look-up method but is also the slowest of the three methods with a large database.

When the **Always Look-up pricing info** option is selected, the pricing will always be looked up even when the quantity is edited. This checkbox value is set, until changed, for the user login name. **Note:** When duplicating a sales order, pricing information is not changed unless the quantity or part number is changed and the option is checked.

The Resort the Order Items option will resort the Line Items in ascending order.

The **Update all Header Information** option will sync the header information as per one of the three parameters listed.

The **Mailing Labels** button will allow you to create shipping labels for this sales order.

The **Propagate** checkbox will allow the user to edit a field and update the same field on the other line items on the sales. Handy if you want to add a discount to the entire order, etc.

## 9.1.18 Sales Credit Limit Override Screen

VFP - C:\V847 (User: DOUG) Modules Tools Optional Configuration	Entering a Sale	s Order		<u>-0×</u>			
🧧 Sales Order (Add Mode - Multi	ple Item)		-	×			
X E Abin Violation: Open invoices or average	days to pay exceeds terms + (	-	Document Currency	<u>B</u> ack			
Current Order Term: Net 30 Due in 0 days Average days to pay 0 days	Open Invoices Exceed Terr Total: 2020.1 Oldest Invoice: 00000 View Invoices in Violat	00	Item Info	Items/Notes Add Item Clone			
Credit Limit Violation: Current Order Subtotal: 2020.0000 Discount: 0.0000 Tax: 0.0000 Freight: 29.0000 Total: 2049.0000	Current Order:	2020.0000 60020.0000 2049.0000 64089.0000 0.0000	If you press Finish am 53 is set to display a if a sales order put customer over their limit, the Credit L Violations Screen v displayed. Version displays a warning if t > selling price	warning s the credit imit yill be 9.11A he cost			
Re-Edit Button allows the user to return to the sales order and lower the qty or unit price       -64089.0000       > selling price.       rart         BASE CURRENCY       Save With Hold       Save With Hold       Serial Number       Einished         Base current       Qverride       Resale       Cancel         If necessary, enter Override Password that was set in Settings and Utilites, Option 53.       Record: 1/11       Record Unlocked							

**Option 53** in the Configuration/Settings and Utilities can be set to provide or not provide credit limit warnings.

# 9.1.19 Other Buttons and Keys, F1 Button, Display Part Number Information

In	Part # 000000001 Description BEARING 3.	Тур	e Part - Inventory	×	I Revi	sion ABC Displ	ayed Currency	Ins <u>p</u> ection Cri BASE CURRENC	
	Qtys \ Costs	Vendors	Sales Prices		Detail	s 1	Details 2	QuickBook	:s®
	Costs: Average Standarc Last PC	10.0	Assembly Cost Details		1 2 3	Area Stores TEST/MRB R&D	Quanti 5.0 2.0	00	
	On Order On Demand MRP Available		.000 Display & Update		4 5 6	DEMO INCOMP ENGINEER			-
	Estimated Usage Minimum Qty Maximum Qty Std Order Qty	/10	.000		7 8 9 10	QC HOLD RMA STAGING SCRAP			
	Order Multiple Stock & Issue Unit Lead Time (Days)	,	Date of Last I		ress th Ind "Pa	e F1 Key o	r click on the to display the ormation.	]	
_	Delete	Ū	Log Book	Part ≦	<u>t</u> atus		<u>k</u>	<u>C</u> ance	

#### 9.1.20 Notes on sales orders

The sales order Boiler Plate field will print the same statement on every sales order and can contain statements such as late payment penalties, etc. The sales order boilerplate can be created and edited from the Configuration Menu, **Option 22**, under "Boiler Plate Notes for Forms". This boiler plate text will be transferred to the invoice <u>if</u> you select it to transfer on the Invoice boiler plate selection <u>and</u> if there is <u>no</u> boiler plate text for the invoice boiler plate.

If auto accounting is set On in the configuration menu, after all the line items have been entered for a cash and carry or on account and carry sales order, pc/MRP will automatically debit and credit the general ledger. However, it is recommended that auto accounting is set off. This will allow the invoice to be reviewed prior to entering the general ledger transaction.

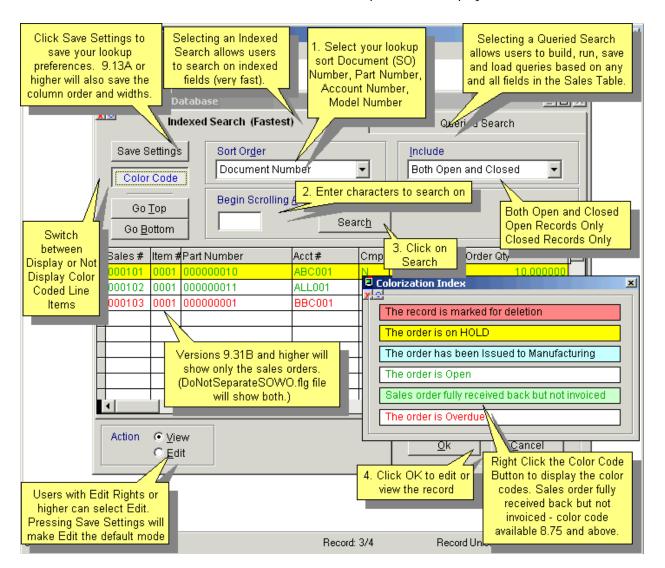
When a sales order is entered, pc/MRP will increment the On Demand quantity for the completed assembly and <u>not</u> the parts in that assembly. The allocation of sub-assemblies and parts in the parent assembly(s) is performed when the user runs "Generate MRP Action Items" in the optional Infinite Bucket module. The results will be displayed in the MRP Available field.

For "On Account and Carry" and "Cash and Carry" Sales Orders the Invoice will be created automatically. The Invoice's data fields will be carried over from the Sales Order, including the Enterby field. The user gets a message about the Invoice Number created.

**For one of our customers, RCH**, pc/MRP will automatically create a BOM with a BOM number of the sales order number plus "00." Each line item on the sales order becomes a part of the BOM, is assigned an 8-character part number consisting of the sales order number plus the last two characters of the line item number. If you delete a sales order line item, the part is removed from the inventory/partmast database file. If you remove the last line item, the BOM is removed from the BOM database file. (This is only applicable to this one company.)

#### 9.2 Edit/ Delete a Sales Order

To view or edit a sales order, select Modules, Sales and Edit. pc/MRP will display the screen shown below.



This option allows users to scroll, edit, delete, undelete Sales Order line items, or run queries against Sales Order records.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Sales Order table. For further details, see Chapter 15.14.1.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an **Indexed Search** select the:

- 1. Desired Sort Order, Document #, Account #, Part #, Model #, Customer PO #, Ship to Address
- 2. Desired Include information, Open, Closed, Open and Closed (Closed = Invoiced)
- 3. Enter the applicable data in the Begin Scrolling At: field
- 4. Select the desired Action, View or Edit
- 5. Click Search
- 6. Select the correct record
- 7. Click **Ok** to proceed to the edit screen for that record.

pc/MRP for Windows - Version 9.13E The Change # Field is used to note any changes in the order. Itiple Iter		If you edit header inf changes can be propag by selecting Options "Update All Header	ated to all items and checking
SO/VO #         000102         Change #         0           Order Date         05/22/2017         Sales Type         Order E	ntry 🔽	D	mark a
Qty Assembled is automatically filled ir stockroom, Qty and Date Shipped by the	e invoice.	record for deletion. On record is marked for deleti be removed by running	ion, it can Remove
The Orig Req Ship Date is automatical updated whenever the Date Required is ec This field stores the previous Date Requi	Jited. Qty Assembled Quantity Shipped	Marked Records" Versio and higher will update On-Demand Qty when yo sales order for delet	e the u mark a
Web Order Number Sales Site Manufacturing Site	Original Req Ship Date / / Sales Quote Inquiry Date / /		Brea <u>k</u> db n
Reference No. 1	Part Aux 1 Part Aux 2		<u>D</u> elete
Reference No. 3			<u>O</u> ptions
tem Part Number -View Part Rev Descripti	on 🔽 Part Lookup Moo	del Number	Logbook
	MEEL ASSY		Create Par <u>t</u>
10.000       4000.000000       0         Comm       Displayed Currency       BASE CI         pc/MRP will automatically correct the on demand qty in the partmaster whenever the qty is changed, provided that       If you autom (Y if C	enter an invoice, pc/MRP will ×	2017     ??     1       plete     Serial Numb     If the sa       entered a     Account a       Hold     Location       Type     Resale       Confirmed     7	les order was as Cash or On and you add an nal line item, will prompt "Do to create a new or add to the ng invoice".

Every field within the Sales Order table is editable. There are however, several key concepts a user must understand before editing.

If the Sales Order edited was originally entered as "**Cash and Carry**" or "**On Account and Carry**", and you add an additional line item you will be asked whether you wish to create a new invoice or add to an existing invoice. If you choose to add to an invoice and more than one invoice for this particular Sales Order exists, a scroll window with the last line item of each invoice will be displayed. Select the item with the invoice number you wish to append.

If you were to edit the **Quantity** on an open sales order, pc/MRP will automatically correct the part number's quantity on demand in inventory. If an invoice has been entered for this sales order and you edit the invoice, pc/MRP will offer to update the sales order "quantity shipped" and the inventory on hand quantities. To edit the **address**, simply edit the address in the first line item.

The **Issued to MFG** and **Qty Assembled** fields appear on the edit screen for **order entry** sales orders as these types of orders will act like work orders. pc/MRP will automatically enter a "Y" into the Issued to MFG field when the assemblies are issued from stock to manufacturing. The Qty Assembled field is automatically updated when the assemblies are received by the stock room from manufacturing for that sales order number.

The **Complete** and **Quantity Shipped** fields are displayed only in the edit mode and are filled in automatically when the items are invoiced. The Quantity Shipped field contains the accumulative amount shipped. pc/MRP uses the Complete field to determine if a record is overdue, open, or closed. A "Y" in the Complete field marks the record as closed. An "N" or <br/> the COMPLETE field marks the record as open.

The **Date Shipped** field is updated automatically when invoicing.

The **Change** *#* stands for Change Order Number; this is used to note any changes in the order.

Use the **Delete** Button to mark a line item or the entire sales order for deletion. Line items that have been issued to MFG or invoiced, can not be marked for deletion. To permanently remote the records from the database table, set an administrative lockout, then select Sales, Remove Marked Records. **Notes:** Versions **9.06A** and lower only allowed the user to delete line items one-by-one. Version **9.12E** and lower did not update the On Demand qty.

If a SO has been issued to MFG but not fully received back, or if the SO was invoiced, users should avoid editing the Quantity on the SO. When trying to edit the quantity, users will either receive a warning (and can choose to continue) or they will be blocked completely. This is set by Configuration **Option 53**.

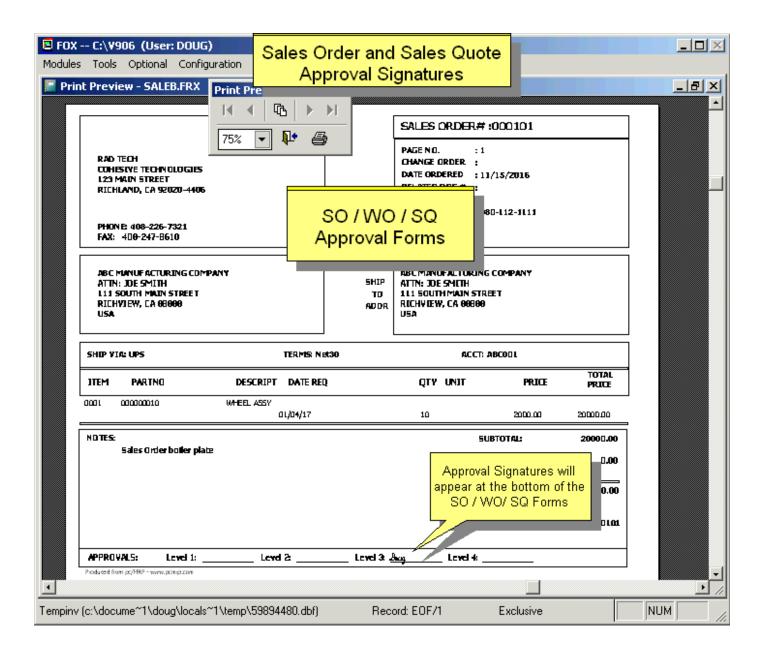
If a SO has been issued to MFG but not fully received back, or if the SO was invoiced; users will be blocked from deleting the SO or changing the part number on the SO. If you want to delete the SO or change the part number anyway, you need to remove the Y from the Complete and/or the Y from the Issued to MFG fields (not recommended).

#### Sales Order Approval

Companies that own the optional Advanced Password Module, can utilize the SO Approval feature below. The optional User Task Manager & Tickler Module adds an additional feature, but is not essential.

FOX C:\V906 (User: DOUG) Modules Tools Optional Configurat		and Sales Qu al Overview		With versions 9.06 and higher, users can be
📕 User Password & Access Right	5			assigned rights to
📕 User Name 🛛 Password 🔺	PR Approval	SO Approval	SQ Approval 🔺	digitally sign and approve
BILLY BILLYBOY	No Approval Ri 💌	No Approval Ri 🝷 I	No Approval F 💌 🔜	Sales/Work Orders and Sales Quotes.
	▶ Level 3 Approv: ▼	Level 3 Approv 💌 🛛	Level 3 Approv 💌	
	Level 1 Approv: 🔻	No Approval Rights		o <u>IN</u> ext
		Level 1 Approval Rig		Items/Notes
■ Editing re Password Mod	lule to	Level 2 Approval Rig Level 3 Approval Rig	ints	🥜 Links
<u>N</u> ew Rights, if any, a	proval	Level 4 Approval Rig	ihts cancel	Add Item
Wp_temp		Record: 8/8	Exclusive	Clone
		Contact		Brea <u>k</u> down
State / Zip CA	88888	Related Doc #		Delete
Country USA		Territory		
Phone / FAX 980-112-1111	🔲 🧧 Sales Order Ap	oproval		×
e-Mail	<u></u>	Signature	•	Options
	Level 1 Approva	ı 🗌	 Insert Signa	iture
ttem Part Number Rev 0001 000000010	 Level 2 Approva		Insert Signa	Create Part
Quantity Unit Sale Price				Create Address
10.000 2000. Displayed Currence	- Lotor o tippiota	" Doug	Remove Sigr	hature Approval
Comments	Level 4 Approva	1	Ins <u>e</u> rt Signa	iture
pc/MRP's Optional Tickler Task	Manager	Jest a signature from	edit a SO, Pres Approval Button a	ss the
Module will allow users to send a to a user requesting he insert his		<u>O</u> k	their signature at	the level
signature on a Sales / Work		Record: 5/11	they are approv	ved for.

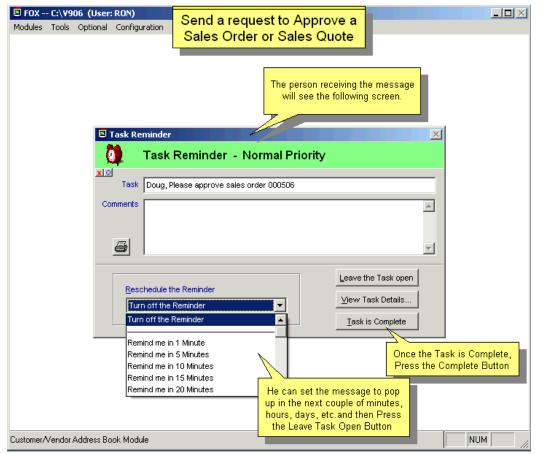
Users can have rights to approve a PO of 5 different levels, from No Approval Right to Level 4 Approval Rights. This is set in the Optional Advanced Password Module for each user. Users with PO approval rights can then click on the Approval button and insert their user name into an approval box on or below their approval level. The approval signatures will appear at the bottom of the sales order form.



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If the optional User Task Manager & Tickler Module is activated, you can immediately send a request to another user to approve the sales order. Press the F4 key, or select Optional, User Task Manager & Tickler, New Task.

FOX C:\V906 (User: DOUG) Modules Tools Optional Configuration	Send a reques Sales Order o	st to Approve a or Sales Quote	
	pe in equest Task N pop u	ck Reminder. If you e msg to the user to right away, set the fanager Settings to p within 1 minute. 506 Priority	A. Select Working
12/05/2016 04	55:41 PM	Category	- Working
Properties Comments	,	Status	Working
Properties		Completion Status	
Created by DOL	G	Date Started	// :: AM
	5/2016 04:46:41 PM	Completed by	
Assigned to RON		Completed Date	
Due Date	:: AM	Completion Stage	0 Complete
se	Select the person you nd the message to. If th own List Box is empty, optional, User Task Mar kler and Settings and s "Obtain the User List f Password Module"	ne Drop Go to nager set it to	<u>Q</u> ancel 5. Press the OK Button
Relateditems	F	ecord: None	Exclusive NUM

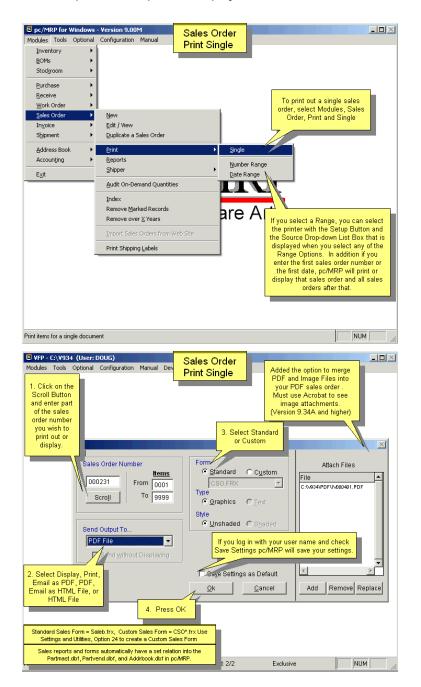


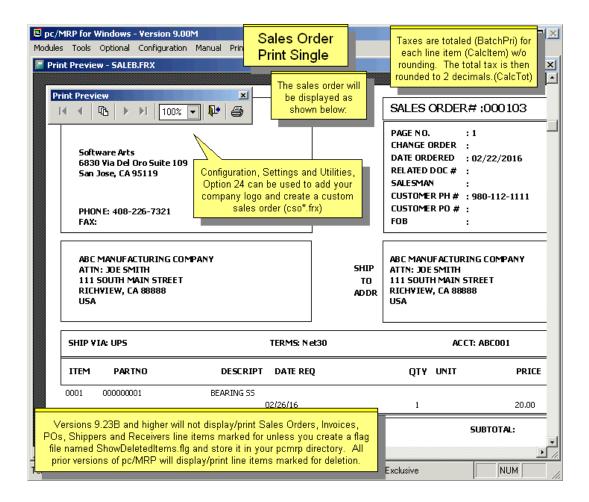
#### 9.3 Duplicate a Sales Order

When you duplicate a sales order, the entire sales order is duplicated with a new Sales Order number, the current date and a blank Required Ship Date. **Note:** When duplicating a sales order, pricing information is not changed unless the quantity or part number is changed and the **Always Look-up pricing information** button is checked on the **Option** button. (Section 9.3.3) Duplicating a SO will increase the part's On Demand qty (versions **9.12F**, **9.13H** and higher.) Check Open for Editing if you want to enter the Date Required.

#### 9.4 Print, Email a Sales Order

To print, display, email, fax a sales order, select Modules, Sales, and Print. You can also create an HTML or PDF sales order document. If you select a Range, you can select the printer using the Setup button. If you enter the first sales order number or the first date, pc/MRP will print or display that sales order and all sales orders after that. If you select a Range, you can select the printer using the Setup button. If you enter the first sales order number or the first date, pc/MRP will print or display that sales order and all sales order the first sales order number or the first date, pc/MRP will print or display that sales order and all sales order that.





To e-mail a sales order directly from pc/MRP, you must use Outlook, not Outlook Express. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book.

If you choose to create an HTML or PDF document, you can save this document and attach it to an email created in your existing e-mail program. The .PDF file name will include the Change#.

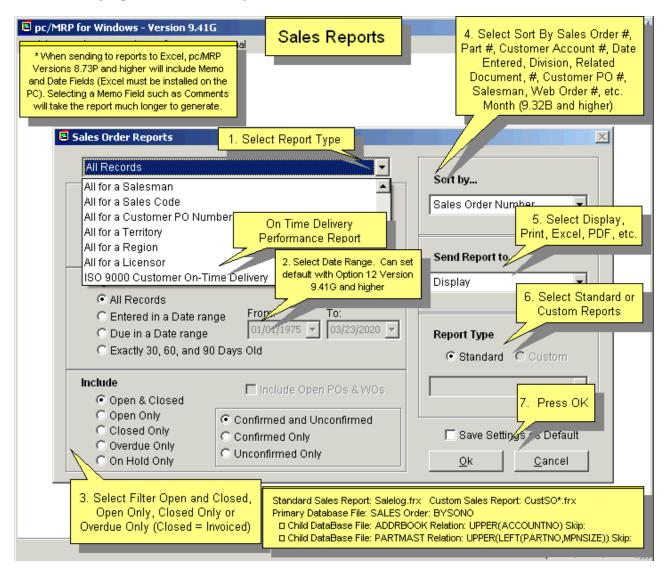
If the flag file **SOMAILLB.FLG** exists, an address label for the customer on that sales order will automatically be printed.

Sales Orders, Invoices, and Shippers can be configured to print out the Serial Number or Model Number using Settings and Utilities, **Option 22**.

If you need a "Sales Terms" pages printed after every sales order, call Software Arts. The Technician will create a custom EF file for you, using ~OUT~ ShellExec(fullpath(*<filename>*)).

If you select to print "Single Sales Order", and you have a custom form named **SOFORM1.FRX** or **SOFORM2.FRX**, pc/MRP will ask users if they want to print them after printing the sales order. These two additional forms can be used to make travelers.

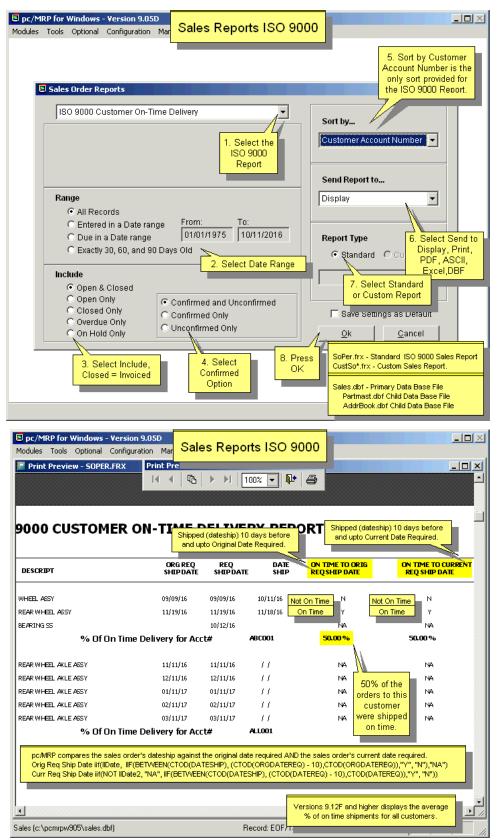
9.5.1 Print/Display Sales Order Reports



Select Modules, Sales Orders and Reports to display or print out a sales order report (SALELOG.FRX). See Section 15.4.1 to create custom sales order reports (CUSSO\*.FRX or CUSTSO\*.FRX).

# 9.5.2 ISO 9000 On Time Delivery Report for Customers

The report is sorted by customer Account Number. The order is On Time if it is not late, and is not more than 10 days early. The subtotal will be 100 \* (number of on time orders/total number of orders).



# 9.6 Shipper (Print/Display a Shipper)

Allows you to print out or display a shipper for a specified sales order. Each shipper order can contain up to 9999 line items. Please note that a sales order line item that is on hold will not allow a shipper to be printed/displayed for that line item. For additional details see Section 9.4 above. The shipper will display the Backorder qty (**9.05G**, **9.06B** and above).

#### 9.7 Audit On-Demand Quantities

Zeros out the on demand quantity in inventory and then replaces the on demand quantities with the on demand quantities from all open sales orders and work orders. If several sale order quantities are edited, this option will automatically correct inventory quantities. If 'Audit On-Demand Quantities' reports any errors, you must fix the errors and re-run the function again.

#### 9.8 Print Shipping Labels

Select the Sales Order number. On the next screen you can enter the number of boxes. The Date Code and Lot Code will be printed on the labels, but will not be saved back to any database file. If Specify Individual Box Quantities is checked, you will be able to edit the Date Code, Lot Code and Quantity for each box.

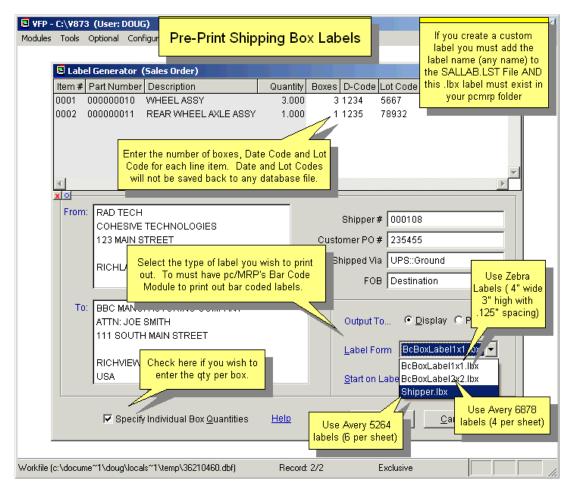
Select the type of label you wish to print. Customers who own pc/MRP's Optional Bar Code Module, can print out bar coded labels.

Users can create additional custom \*.LBX labels or \*.FRX forms. Any custom Label or Form you wish to utilize must be listed in a file called **SALLAB.LST**. This file can be created and or edited through Notepad and has to be located in the PCMRPW folder.

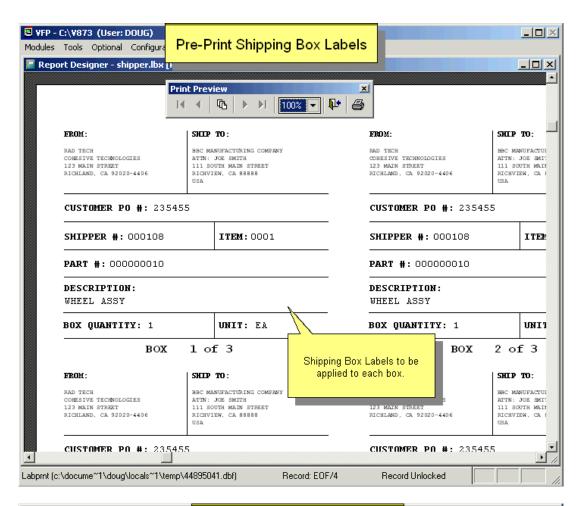
This option allows users to print out a shipping label for each shipping box required for an invoice. To activate this option in the Invoice menu, the INVLAB.LST & INVSHIP.FLG files must exist in the pcmrpw folder.

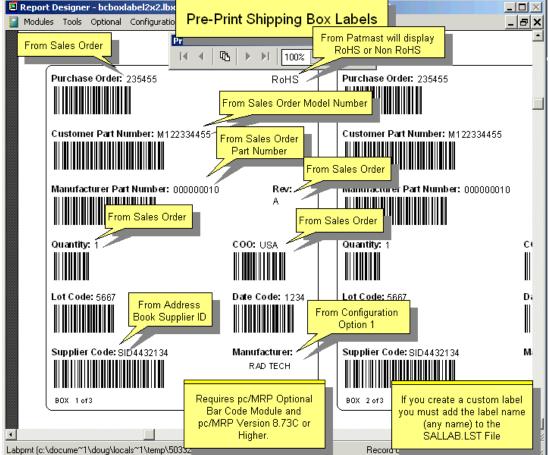
The text in an example SALLAB.LST file is shown below:

BcBoxLabel1x1.lbx = 3" x 4" continuous feed. BcBoxLabel2x2.lbx = Avery 6878 labels - Four per sheet. Shipper.lbx = Avery std 5264 labels - shipping labels. Six per sheet. 4-1/8" x 3-1/3"



STORES.		<b>V873 (User: DOUG)</b> pols Optional Configu	Pre-Print Ship	ping Bo	x La	bels				
	ACCESS OF A	Label Generator (Sa								×
	00) 00)	01 000000010 W 02 000000011 R	escription /HEEL ASSY EAR WHEEL AXLE ASSY	Quantity 3.000 1.000		s D-Code Lot 3 1234 566 1 1235 789	7			<u> </u>
Print	bels to Item #	Part Number	Description			Quantity	Box #	of Boxes	Date Code	Lot Code
	0001	000000010	WHEEL ASSY			1.000	1	3	1234	5667
	0001	000000010	WHEEL ASSY			1.000	2	3	1234	5667
	0001	000000010	WHEEL ASSY			1.000	3	3	1234	5667
	0002	000000011	REAR WHEEL AXLE ASS	ЗY		1.000	1	1	1235	78932
		che	ecifiy Individual Box Qu cked, you will be able to Codes, Lot Codes and	o edit the						
xo			for each box.						<u>0</u> k	<u>C</u> ance
		Specify In	dividual Box <u>Q</u> uantities	<u>Help</u>		<u>0</u> k		<u>C</u> ance		
Lablist	(c:\doo	cume~1\doug\locals~1\	.temp\44372983.dbf)	Record	: 1/4	Exclu	usive			





#### 9.9 Queried Search Overview (see 15.14.1)

# 9.10 Indexed Searches (see 15.14.2)

# 9.11 Index (see 15.14.3)

#### 9.12 Remove Marked Records (see 15.14.4)

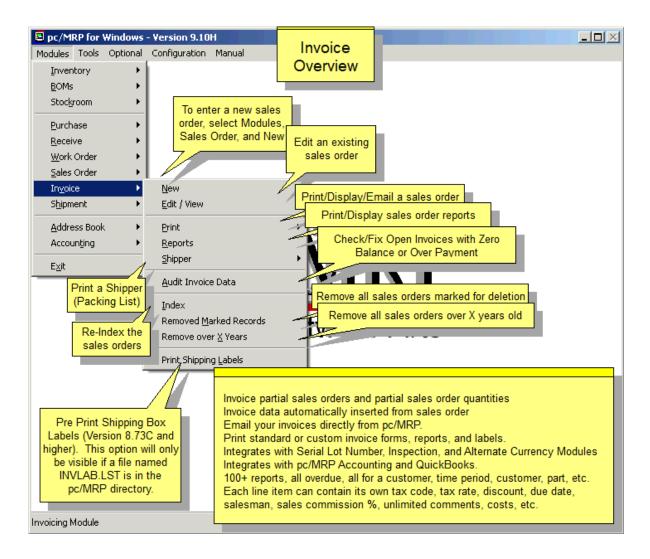
#### 9.13 Remove Over X Years (see 15.14.5)

**Note:** Sales orders and Work orders share the same database table. When users instruct pc/MRP to remove all Sales orders older than X years, pc/MRP will also remove all Work orders that are olden than X years. If you want to keep all Work orders and only want to delete old Sales orders, call Software Arts for assistance.

# 10 Invoice Module

# 10.1.1 Overview. Enter a New Invoice

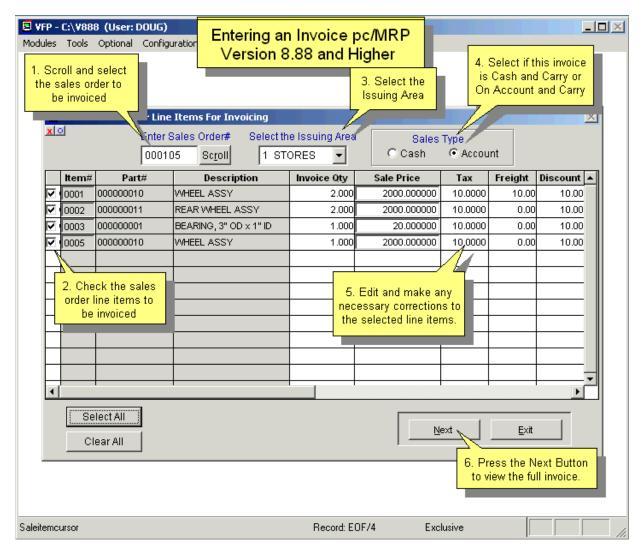
pc/MRP's Invoice Module allows you to enter, edit, and print invoices and invoice reports. **Note:** You will enter an Invoice for only "Order Entry" Sales Orders. For "On Account and Carry" and "Cash and Carry" Sales Orders the Invoice will be created automatically.



An online slideshow is located here: http://www.pcmrp.com/mrp101/invoice880selectnew.htm

# 10.1.1.1 Enter a New Invoice Step 1, Select the Sales Order to be Invoiced

To enter a new invoice for an existing open sales order, select Modules, Invoice and New. (If there is no existing open sales order and you have the finished goods in stock, enter the invoice by selecting Sales, New and On Account or Cash and Carry.) Scroll to select the Sales Order to be invoiced. (A green background indicates Sales Order items that have been built but not yet invoiced.) Select all the line items you wish to invoice. Select the Issuing Area and the Sales Type. At this point you can make any necessary corrections to the selected line items.



# 10.1.1.2 Enter a New Invoice Step 2, Make any necessary Changes to the New Invoice

pc/MRP will insert the next available invoice number. You can enter your own invoice number at this point, but it is not advisable to do so as pc/MRP can track the next available invoice number better than humans. The invoice number should consist of 6 numeric characters with leading zeros. pc/MRP is able to increment alpha characters in some cases. For example if the highest invoice number was B99999, pc/MRP would provide C00001 as the next available invoice number. However, pc/MRP will run faster if you accept the default invoice numbers. Configuration, Settings and Utilities, **Option 74** can be set to allow or not allow editing of the invoice number. We suggest companies block document numbers from being edited.

If none of the information on the invoice needs to be changed and none of the line items requires serial numbers or inspection and auto accounting is off, press OK. You are done! Proceed to **10.1.1.10**. Otherwise continue reading.

# 10.1.1.3 Enter a New Invoice Step 3, Customer Tab

Due Date is calc Modu from the sales o		an Invoice pc/MR	P Print you and your Customer's	
terms. See Optio		8.88 and Higher	Currency	Back one item
x 000001	Invoice Date 07/10/201			Back
SO# 000105	Due Date 08/09/201			
Customer	Billing / Shipping	Delivery Item Inf	o Accounting Info	
Customer ALLIED			ALLOO1 Type	Forward one item
Address ATTN: J	OHN DOE		Vet 30	+ Delete
Street 123456	7 2ND STREET	Customer PO#	······································	
City SAN JO	SE	Contact	from sales order). Wust	Display all     Ine items
State / Zip	12345-1234		be set to Visa, MC, etc. to allow the user to select or	
Country USA	Versions 8,88 - 8,9	Territory	add (+) a credit card.	Items/Notes
Phone/FAX # 408-248		ry qtys for Region		Links
e-Mail	Update to 8.90N c		DOUG Store, D Docum	ents (
Item Part Number	Rev Description		Model Number	La <u>b</u> els
0001 000000010 Quantity Unit	Sale Price Tax %	Freight Disc % Seri	3. Check Tax	Print Labels
2.000 EA	2000.000000 10.0000	10.00 10.00	from sales order).	Selected in prior screen
Comments	Displayed BASE CURRENCY	Divisi		
		Locatio	pe Taxable	<u>O</u> k
2. If applicable, add		🗐 🛛 Sales Tvi		<u>C</u> ancel
sales order or partn	haster as inspection and auto acc	counting is off, you are done!	he line items require serial numb Proceed to slide 10 to print the i	invoice
Save any changes and E	issue reg (driving onl	hand qty negative). Version 9	to cancel the item, issue availa .11B displays a warning if the c	
Save any changes and E	at the march	selling price.		
Due Date is auto calculated from t order's terms. See	he sales Manu	bice - Customer T	nent the Document	e hardcoded to sync I line items. Select aster Card, AMEX, Express, Discover,
SO# 000104	Due Date 03/09/20		Lin Diners, JC	CB or Credit Card, to credit card number
Customer	Billing / Shipping	Delivery   Item Int		Select a specific credit card if applicable.
Customer ABC Ma	anufacturing		ABC001 TV e CUS	
Attention John St		Credit Card		<u>D</u> elete
Street 123 Ma		vlap 🔰 👘 👘 👘	12345	
City San Jos	 3e		JOE SMITH Contract #198	Enter new credit
State / Zip CA	12345-1234		Contract C(23)	card number if applicable
Country USA	Rev comes	Territory		applicable
Phone/FAX # 333-44 e-Mail sales@	4-0900 98 from sales	Region		/MRP will insert a Y
- Isaics@		Entered By		the Complete Field hen this invoice line
ttem Part Number	Rev Dr scription	Inserted from sales(8.80E	B) Model Number	item is paid.
Quantity Unit	Sale Price Tax %	Freight Disc % Seri	al Number Complet	
1.000 EA	2000.000000 0.0000 Displayed BASE CURRENCY -	0.00 0.00		
Comments	BASE CORRENCY	Divisi		
		res Alternate Tax Ty	/pe Resale SUBSTR(Cu	stCorp,1,41) = Company stCorp,42,41) = Contact
If applicable, ac	Curre	ncy Module Sales Ty	vpe Resale SUBSTR(Cu	
will be imported		mcy Module Sales Ty ments Option Tax Type insert	VPe         Resale         SUBSTR(Cu           pe         Op         Cct & Ca         SUBSTR(Cu           substr(Cu         SUBSTR(Cu         SUBSTR(Cu           ied from         SUBSTR(Cu         SUBSTR(Cu	stCorp,42,41) = Contact stCorp,83,41) = Addr 1

Part Number, Rev, Description, Customer Address, Ship to Address, Bill to Address, Original Quantity Required, Quantity Previously Shipped, Unit, Sale Price, Terms, Trade Discount, Freight, Tax Rate, Salesman, Ship Via, Credit Account, Licensor, Licensor Rate, Related Document, and FOB are all automatically entered from the Sales Order. See Option 22 to determine what goes into the Comments field.

The **Quantity** field (QtyShip) can be overwritten if you are invoicing less than the full quantity. **Invoice Date** is automatically entered from the system date and is used by the Accounting Module in aging the Accounts Receivables Records. It is also the date used by pc/MRP to determine which records are over X years old and ready for deletion. The **Related Doc #** field is a 21 character scrollable field. It can be used to enter a related contract or document number. The **Entered By** field will contain the current user's login name.

The entire amount for the **Freight** can be entered once in one line item in the freight field or entered individually for all line items. The freight totals for all line items will be totaled and printed out on the forms and reports. The **Document Currency** & the **Displayed currency** fields require the optional Alternate Currency Module, and if installed, will print using both currencies.

Invoices and Shippers can be configured to print out the **Serial Number** or **Model Number** using the **Boiler Plate** Option. (**Option 22**). If the optional **Serial Lot Number Module** has been purchased, do not enter serial numbers into the above serial number field. This field is only in use if the optional module has *not* been activated. Instead, wait for pc/MRP to prompt you to pick or enter the serial numbers for this invoice line item. You can set pc/MRP to print out serial numbers on the invoice using Configuration, Settings and Utilities, **Option 55**.

InvoiceScr.Syn\_Terms automatically syncs terms across all line items.

# 10.1.1.4 Enter a New Invoice Step 4, Billing/Shipping Tab

No. of Concession, Name	Windows - Version 9.12A Optional Configuration (	Invoice - B	illing Shipping Ta	ab		
Invoice # 000 SO# 000	0001 Invoi C		illing and Shipping Addr g/Shipping Addresses T	ab Cum	ency ICY 💌	<u>B</u> ack
Custome	r Billing / Shipping	Display	y Map	Ac Displa	ay Map 📄	Next
	Bill To Addres	s 🔇	Ship To Addres	ss 🔇		and Shipping esses are
Bill To	ABCD MANUFACTURING BILL	ING	ABCD MANUFACTURING S	SHIPPING		cally inserted
Attention	ATTN: ACCOUNTS PAYABLE		ATTN: RECEIVING		from the	sales order.
Street	1234567 SOUTHWEST BILL S	TREET	1234567 SOUTHWEST RE	CV STREET	7/	
	ĺ					
City	MOUNTAIN BILLS		MOUNTAIN SHIP		_	
State / Zip	CA	12345-BILL	CA	12345-SHIP		Items/Notes
Country	USA-BILL		USA-SHIP		-	
Contact	, 				-	Links
Email	, /	1				
			/			La <u>b</u> els
Item Part N	lumber Re	cription		/ Number		
	1,41) = Company Name		To,1,41) = Company Name	Com	olete	Logbook
	42,41) = Contact Name 83.41) = Street Addr 1		To,42,41) = Contact Name To,83,41) = Street Addr 1			
	124,41) = Street Addr 2	SUBSTR(Ship	To,124,41) = Street Addr 2			
SUBSTR(BillTo,		SUBSTR(Ship	To,165,30) = City	Area		
SUBSTR(BillTo, SUBSTR(BillTo,			To,195,20) = State	STORE	S	Ok
	215,10) = ZIP 225,30) = Country		)To,215,10) = ZIP )To,225,30) = Country		<b>•</b>	<u></u>
				34 pc/M	RP Versions	8.73 and higher
				includ	le Contact, Er	nail, Phone, FAX
				and <sup>1</sup>		h the Bill To and
Invoice (c:\pcmrp	w912\invoice.dbf)		Record: 1/1	Record	Ship To Ad	aresses.

Click on the Billing/Shipping Tab to check the Billing and Shipping Addresses which were imported directly from the sales order. Change these addresses if necessary.

**Contact, Email, Phone, Fax and TaxID** for both the Bill To and Ship To addresses are available in versions **8.73** and higher. You can scroll to see all fields.

The **Payment Due Date** is the date the payment is due on. pc/MRP will automatically calculate by adding the term you entered plus the date of the invoice. You must simply begin with the word "Net." By example, a term of Net-60 or Net 60 will automatically calculate the payment due date 60 days beyond the invoice entry date.

An unlimited amount of **Comments** can be entered for <u>each invoice line item</u>.

Up to nine lines of notes can be added to all Invoices by modifying the Configuration Menu's **Boiler Plate**. (**Option 22**) The boiler plate will appear <u>once, on the last page</u> of the invoice.

# 10.1.1.5 Enter a New Invoice Step 5, Delivery Tab

pc/MRP for Windo     Modules Tools Option	ows - Version 9.12A	Invoice - De	livery Tab			_D×
Invoice [Edit Invoice # 000001 SO# 000104 Customer	Invoice Date 02	07/2017 09/2017 Delivery	Click on the De view delivery i	nformation.	rency NCY 💌	Eack
FOB	Destination UPS::Ground Tariff Code	S	Case Measure nipped Case Gty Gross Weight Net Weight	0.0000 ✓ Shippable Item NCNR Item	Gross = To pkging. Net = pkging. Aut sales order. Auto inserte blank, shippe from p	otal Weight WO = Total Weight W o inserted from Not unit weight. d into shipper. If er will get weight artmaster <u>[tems/Notes</u> k to track pkgs
Item Part Number 00001 000000010 Quantity Unit 1.000 EA Comments		ASSY <% Freight   .0000 0.00	Disc % Serial N 0.00 Division Location Tax Type Sales Type	Enter Tracking pc/MRP can tr FedEx, DHL, a Service Pack Internet Explore your default b you wish to tr and Postal S Packag	ack UPS, nd Postal (ages. er must be rowser if ack DHL Gervices	La <u>b</u> els Logbook Ok <u>O</u> ancel
Invoice (c:\pcmrpw912\i	nvoice.dbf)	Red	ord: 1/1	Record Unloc	ked	NUM

The **FOB** and **ShipVia** fields are imported from the sales order.

If you wish to track the packages through pc/MRP, enter the **Tracking Number(s)**. When you click the Track Button, pc/MRP will track the package. pc/MRP will first look to the Ship Via Edit Box to see which shipping vendor (UPS, FedEx, DHL, Postal Service, TNT) to track. If the Ship Via Edit Box is blank or you used multiple vendors pc/MRP will see if the tracking number is proceeded by UPS:, FEDEX:, DHL:, or TNT: to see which shipping vendor to track. If all of the above is blank, pc/MRP will prompt you to select a shipping vendor.

**Country of Origin**, **IncoTerm**, **Tariff Code** and **Export Reason** are available in version **8.73C** and higher. The first two of these fields come from the Partmaster.

**Gross Weight** (grssweight) and **Net Weight** (netweight) will not automatically come from the Sales Order and will be carried over to the Shipment module. If the weights on the Sales Order are blank, and they are not entered here on the Invoice, the Shipment Module will get the weight directly from inventory.

pc/MRP for Windows     Modules Tools Optional	- Inv	oice - Item InfoTab		_ 🗆 🗵
Criginal Qty and Previous Qty are displayed when editing but not when entering. Original Qty Previous Qty Sales Site Manufacturing Site	1.000		Click on the Item Info T edit/view misc informa Reference Fields used for custo Aux 1 and Aux 2 Version 8.73	tion Next that can be om reports from partmast. and higher
	Intra-Company Sale.			_tems/Notes Links
ttem Part Number 0001 000000010 Quantity Unit 1.000 EA Comments	Rev Description WHEEL ASSY Sale Price Tax % 2000.000000 0.0000 splayed BASE CURRENCY	Freight Disc % Serial Nurr	Area STORES esale	La <u>b</u> els Logbook Ok <u>C</u> ancel
Invoice (c:\pcmrpw912\invo	ice.dbf)	Record: 1/1	Record Unlocked	

10.1.1.6 Enter a New Invoice Step 6 Item Info Tab

The **Reference** fields can be used for custom reports.

Part Aux 1 and Part Aux 2 are coming from the Partmaster.

# 10.1.1.7 Enter a New Invoice Step 7, Accounting Tab

Licensor and Royalty from Sales Order	Code from Sales Order, If you pay Itiple Tax Entities	k if Freight or	Click on the Accounting Info Tab to enter or edit accounting SE A C Credited and debited (CAcct1, CogsAcct). QuickBooks
Salet nan ROBERT BIL Business Entity		Income Acct	Batch     Batch     Batch     Number        0
	Inside Labor Cost Overhead % 10.00 Outside Labor Cost 000000 Component Cost 000000 Total COGS Cost	200.000000         Check #           20.000000         Date Paid           20.000000         Amount Paid           50.000000         290.000000	Hold Invoice, do not export to QB
ttem Part Number Purchase Costs are inserted from Related POs or Components, Labor and or Overhead as per Configuration, Option 35. This value is used by Accountings Cost of Sales and Manufacturing Variance Report. Option 17 or Option 35 with version 8.71 can be set to hide these fields.	Rev Description Inside Labor, Overhead%, Outside Labor, and Component Costs are inserted from Inventory or Sales as per per Configuration, Option 35. This value is used by pc/MRP and QuickBooks Accounting Transactions. Option 35 can be set to hide Commission, Royalty Rate and Cost Fields.	Model N Disc % Serial Number 0.00 Division If Option 35 set to Defa Settings or BOMs conta Inside Labor Parts or the Cost is set to includ Component, Labor ar Overhead Costs, The PO will = the COGS Cos	Area and Amount Paid are automatically updated when the invoice is paid. Not displayed when entering an invoice. ault in no PO e nd Cost

The Salesman, Sale Commission %, Licensor, Royalty Rate, and Income Credit Account, Freight is Taxable and Discount is Taxable are automatically inserted from the sales order.

The **Purchase Cost** and **Additional Cost** Fields are automatically imported from the sales order or the partmaster depending on Settings and Utilities Option 35. If the purchase cost is \$0.00, Cost Roll Ups have not been performed on this item, if necessary enter the purchase cost manually.

The **Income Acct & Cost of Goods Sold Acct** fields are brought over from the sales order. Users can select another Income or COGS account to credit and debit by clicking on the corresponding ellipse button.

If the **Hold** field (hold L(1)) is checked in one line item of the invoice, it will prevent the whole invoice from being exported to QuickBooks.

# 10.1.1.8 Enter a New Invoice Step 8, Additional Buttons

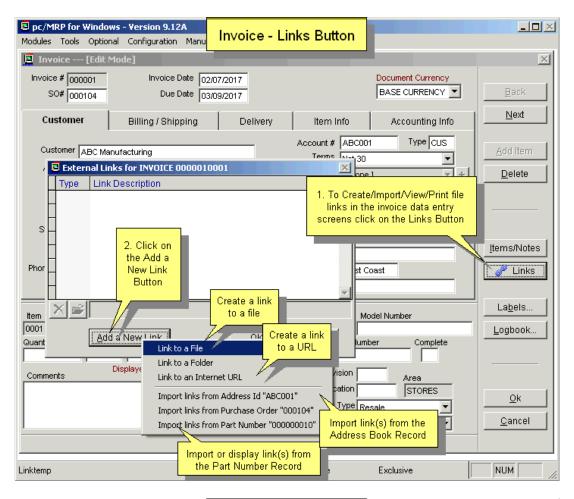
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	John Smith			0	Credit Card	-	Add a Line it	erm	 Delete
Street	123 Main St	treet			Customer PO#	1 Lucito 1			
City	San Jose				Contact	JOE SMITH	1/	<u> Ц</u>	
State / Zip			12345-1234	-	0		Item. With Vers ligher Invoices th		
Country				- ``		Posted car	n not be Deleted	until	Items/Notes
Phone/FAX #	- 	900 980-1	12-1112	-	Reg	they hav	e been Complete	d	/ Links
	sales@abc				Entered By				
									La <u>b</u> els
	Number 000010		scription HEEL ASSY			Mode	l Number	— I'	
Quantity	Unit	Sale Price		eight	Disc % Si	l erial Number	Complete		Logbook
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						Type On A			Cancel
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Save any chang	ges and Exit ti	he Invoice form							NUM
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Pressing the **Items/Notes** Button will allow you to edit the default boiler plate notes for this invoice.

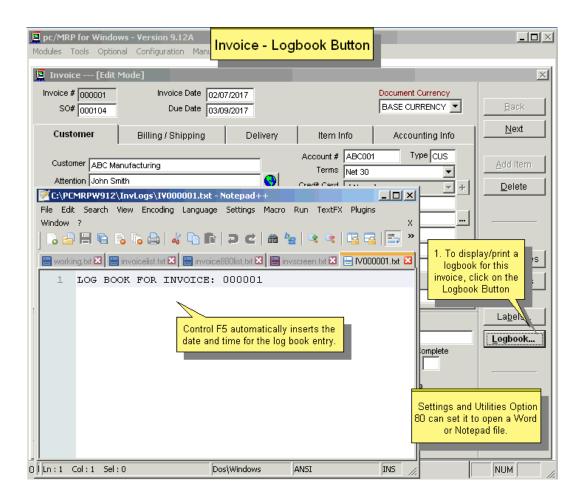
Configuration, Settings & Utilities, **Option 22** allows users to set the boiler plate to be inserted from the sales order or from Option 22's Invoice Boiler Plate itself. If both the sales order and the invoice have boiler plate text, only the invoice boiler plate will be used.

Among other information, the boiler plate could hold your company's remit to address.

The Items/Notes Button is also helpful when you need to navigate an invoice with many line items.



pc/MRP for Windows - Ve	rsion 9.12A	in a link of Derf		
Modules Tools Optional Co	nfiguration Manu <mark>, INVO</mark>	ice - Labels But	ton	
📕 Invoice [Edit Mode]				×
Invoice # 000001	Invoice Date 02/07/2017	-	Document Currency	
SO# 000104	Due Date 03/09/2017	·	BASE CURRENCY	Back
Customer Bi	lling / Shipping	Delivery Item In	fo Accounting Info	<u>N</u> ext
Customer ABC Manufactu Attention John Smith Street 123 Main Street		Terms	ABC001 Type CUS Net 30 • • • • • • • • • • • • • • • • • •	<u>A</u> dd Item Delete
Address Labels				
Mailing Address AECD MANUFACTURIN ATTN: RECEIVING 1234567 SOUTHWEST MOUNTAIN SHIP, CA USA-SHIP	RECV STREET	# of Labels to be printed Start Printing on Label #	1 To print / Labels click Labels B	on the
G Output Type G Sheet Fed C Pin Fed Mign Save current setting	Output To Mailing (4 x 2 Stock (3-1/2) Custom Labe s as Default	×15/16) PI NO CUSTOM	Complete Area STORES	Qk <u>Q</u> k
Invoice (c:\pcmrpw912\invoice.d	bf)	Record: 1/2	Record Unlocked	NUM



# 10.1.1.9 Enter a New Invoice Step 9 Serial/Lot Numbers, Inspections

If any of the line items require serial numbers or an inspection when invoicing the following screen will pop up.

Step - C:\V88 Modules Tools		al Configura Ente	ering an Invoi rsion 8.88 ai			1.Part Number 0	
_		nu invoici	/ of the line item mbers or an insp ing the following	ection when		listed on line ite requires serial no selected or entere invoice for that pa is create	umbers be ed when an art number
x		ot Numbers and Perfo	m Inspections			<u>ــــــــــــــــــــــــــــــــــــ</u>	
<b></b>	voice is	saved.					
Invoice#	ltem#	Part#	Invoice Qty	Inventory Qty	Enter S/L	In spect Record Inv 🔶	
000001	0001	000000010	2.000000	0.000000	Enter	NOT REQUIRED ST	
000001	0002	000000011	2.000000	0.000000	Not Serilized Ite	Inspect ST	
00000	0005	000000010	1.000000	0.000000	Enter	NOT REQUIRED ST	
	<u> </u>						
	ot listed require recorde inspect	n 003, the bearing, is I because it does not serial/lot numbers d nor does it require ion to be performed entering an invoice				Next	

# 10.1.1.10 Enter a New Invoice Step 10 Finish

You can click the Items/Notes button to see information about all items at one. Press the OK Button when done.

E pc/MRP for Windows - Version 9.127 Modules Tools Optional Configuration	
Invoice [Edit Mode]	×
Invoice #         000001         Invoice Date         02/07/2017         Document Currency           SO#         000104         Due Date         03/09/2017         BASE CURRENCY	Back
Customer Billing / Shipping Delivery Item Info Accounting Info	<u>N</u> ext
Customer       ABC Manufacturing       Account # ABC001       Type CUS         Attention       John Smith       Image: Customer PO#       Terms       Net 30       Image: PO#         Street       123 Main Street       Customer PO#       12345       Image: PO#       12345	Add Item
City San Jose Contract #198	
Country USA Territory CA	Items/Notes
Phone#FAX # 333-444-0900         980-112-1112         Region         West Coast           e-Mail         sales@abc.com         Entered By	Cinks
tern Part Number Rev Description Model Number	La <u>b</u> els
Quantity         Unit         Sale Price         Tax %         Freight         Disc %         Press the OK Button to save the invoice and or your changes to the invoice           1.000         EA         2000.000000         0.0000         0.00         0.00         0.00           Comments         Displayed         BASE CURRENCY         Image: Comments         Div         Area	
Location STORES Tax Type Resale Sales Type On Acct & Carry	<u>O</u> k <u>C</u> ancel
Open the Logbook for the Invoice	

If the invoice quantity exceeds the sales order quantity, the user will be warned. Furthermore, pc/MRP will detect if there is sufficient inventory onhand to fulfill the invoice. If the quantity of the line item exceeds what is available in inventory the user will be prompted to:

- Invoice the requested quantity (driving onhand quantities negative),
- Issue as many as are available, or
- Cancel the invoice line item.

Once the invoice item is accepted, the part number's On-Demand and On-Hand quantities are decremented. The Sales Order's Quantity Shipped is increased. If the quantity shipped is >= the quantity ordered, the Sales Order's (NOT the Invoice's) Complete field will be updated to "Y".

If Configuration, Settings and Utilities, **Option 8**, **Auto Accounting** is On for invoices, after finishing the invoice, pc/MRP will automatically debit and credit the general ledger. The newly entered GL transaction will be displayed for edit before it is saved. A "Y" will be inserted into the invoice's Posted field.

Software Arts <u>recommends setting auto accounting OFF</u> so that any invoice mistakes are not automatically entered into the general ledger.

If Auto Accounting is Off for invoices, the Accountant should go into Accounting and enter a new O type transaction to debit and credit the general ledger. A "Y" will be inserted into the invoice's Posted field.

When Accounting enters an R type transaction (Receives Payment) a "Y" will be inserted into the invoice's Complete field, the Amount Paid field will be increased by the amount paid, and the Date Paid will be populated.

# 10.1.1.11 Enter a New Invoice Step 11, Print Invoice Documents

pc/MRP will offer to print an Invoice Form, a Shipper Form, and/or Invoice Labels.

x o ?	Please select document(s) for output.	Check the Invoice Documents you wish to display and or print out and click on the OK Button.
]	<ul> <li>✓ Invoice</li> <li>✓ Shipper</li> <li>✓ Invoice Label</li> </ul>	

#### Notes:

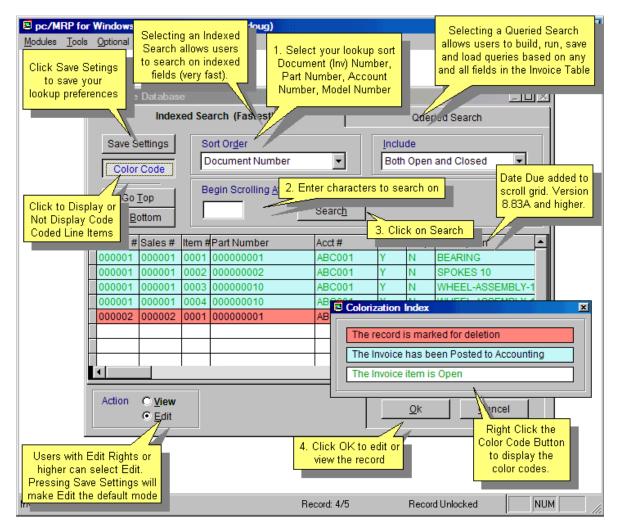
You can select a Domestic or a Commercial Invoice form.

To create custom labels, please see Chapter 15.4.22 for labels and custom label naming conventions.

For more information on printing see Section 10.1.4 below.

# 10.1.2 Edit/Delete an Invoice

To view or edit an invoice, select Modules, Invoice and Edit. pc/MRP will display the screen shown below.



This option allows users to scroll, edit, delete, undelete, or run queries against Invoice records.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an Indexed Search:

Select the desired **Sort Order**, Document # (Invoice #), Account #, Part #, Model #, Customer PO#

Select the desired **Include** information, Open, Closed, Open and Closed (Closed = Paid in full) Enter the applicable data in the **Begin Scrolling At:** field

Select the desired Action: View or Edit

Press **Search** (not the Ok button)

Select the desired record

Press **Ok** to proceed to the edit screen for that record.

**Note:** Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Invoice table. For further details, see Chapter 15.14.1.

Any field in the invoice can be edited. However, there are a few things users need to be aware of.

The **Posted** field is displayed only in the edit mode and is filled in automatically with a "Y" when accounting enters the initial general ledger O (accounts receivable) transaction. Do not manually edit this field.

The **Complete**, **Amt Paid**, **Date Paid**, and **Check** # fields are displayed only in the edit mode and are filled in automatically when accounting enters a payment towards this debt. The Amt Paid field contains the accumulative amount paid. The Complete field determines if a record is open or closed. A "Y" marks the record as closed (paid). An "N" marks the record as open (unpaid). Users should not manually populate these fields unless they know for sure they want to re-open or close an invoice. Please Note that you will not be able to delete an invoice that has been posted until it is complete

If partial payments were made, the **Date Paid** field will contain the last payment's date. (In versions **8.70AA**, **8.72X**, **8.73D** and lower, this field contained the first payment's date.)

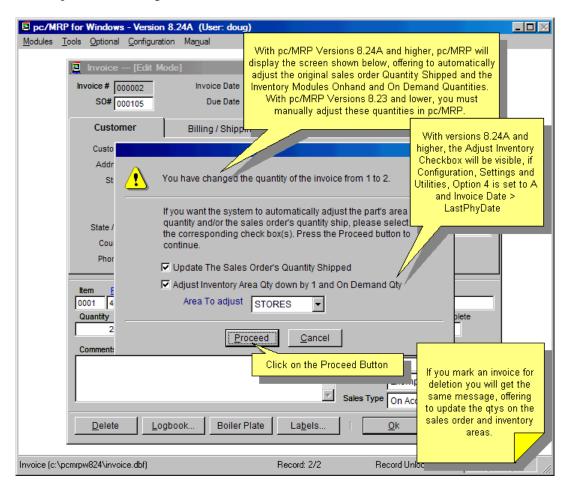
Use the **Delete** button to mark a record for deletion. Use the **Undelete** button if you wish to unmark the record for deletion. To permanently remove the records from the database table, set an administrative lockout, and then select Sales, Remove Marked Records.

Users must have Accounting Edit rights or higher to edit an invoice or receiver that has been posted or paid (requires the optional Advanced Password Module).

If pc/MRP detects a QB batch number or an accounting transaction, it will display the transaction numbers that need to be edited.

If the user edits or deletes an invoice, pc/MRP will offer to automatically adjust:

- The original sales order quantity shipped.
- The part number's 'On Demand' quantity.
- The part number's 'On Hand' quantity if the invoice's date is greater than the last physical or cycle count date for that part number and the Inventory Adjustment method is set to 'A', 'P', or 'W'.
- All existing subsequent invoice's 'Balance Due' quantities (sales order line item has multiple invoices and you are editing one of the earlier invoices).



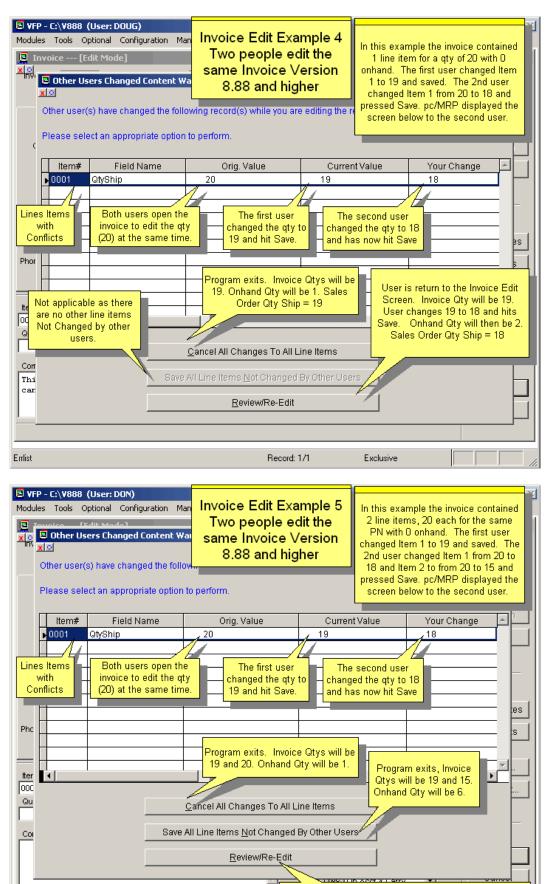
If you increased the Invoice quantity and there are not enough items on hand, you will see the following screen:

	E <mark>:\V888 (User:</mark> D Tools Optional ice [Edit Mod		ce Edit Vers Higher Exa	
	# 000001 # 000105	Invoice Date 07/02/201 Due Date 08/01/201	4 Since Y Onhand	ou are requiring 2 more and the Oty is 1, the following Insufficient
	tomer ficient Onhand (	Billing / Shipping	Delive	Qty Screen will appear.
Item	ltem(s) belo	w do not have sufficio	ent onhand qua	antity. Please select an action for each item
0001	000000010	WHEEL ASSY	2.000	
				Issue the required quantity. (Drive onhand negative)
				Issue as much as is available.
				Revert back to the invoice's original quantity
lssu Rev	ue as much as ava vert back - Program	- Program exits - Invoice Gty 4 ilable - Program exits - Invoice nexits - Invoice Gty 2, Onhand ry qty - Program exits - Invoice	Qty 3, Onhand Qty 0 Qty 1, Sales Order 0	Revert back to the invoice's original quantity Do not update the inventory area quantity es Order Qty Ship 4 , Sales Order Qty Ship 3 ty Ship 2
lssu Rev	ue as much as ava vert back - Program	ilable - Program exits - Invoice n exits - Invoice Qty 2, Onhand	Qty 3, Onhand Qty 0 Qty 1, Sales Order 0	Revert back to the invoice's original quantity Do not update the inventory area quantity es Order Qty Ship 4 , Sales Order Qty Ship 3 ity Ship 2 Qk Qancel
lssu Rev	ue as much as ava vert back - Program	ilable - Program exits - Invoice n exits - Invoice Qty 2, Onhand	Gty 3, Onhand Gty 0 Gty 1, Sales Order ( Gty 4, Onhand Gty 1	Revert back to the invoice's original quantity Do not update the inventory area quantity es Order Qty Ship 4 , Sales Order Qty Ship 3 ity Ship 2 , Sales Order Qty Ship 2

If the invoice you are editing was issued with serial numbers, you will see the following screen:

I VFP - C:\V888 (L Modules Tools Opt		DUG) Configuration Manual	Version 8.4 Higher Exa	38 and			
× oL.		ot Numbers saved.		-			×
Invoice#	ltem#	Part#	Invoice Qty	Inventory Qty	Enter S/L	Inspect Record	t Inv 🔶
000001	0001	000000010	1.000000	0.000000		NOT REQUIRED	
			contained specif	oice being edite ic serial lot num ify which serial ere not shipped.	bers lot		
						Next	

# 10.1.3 Example: Two Users Simultaneously Editing the Same Invoice



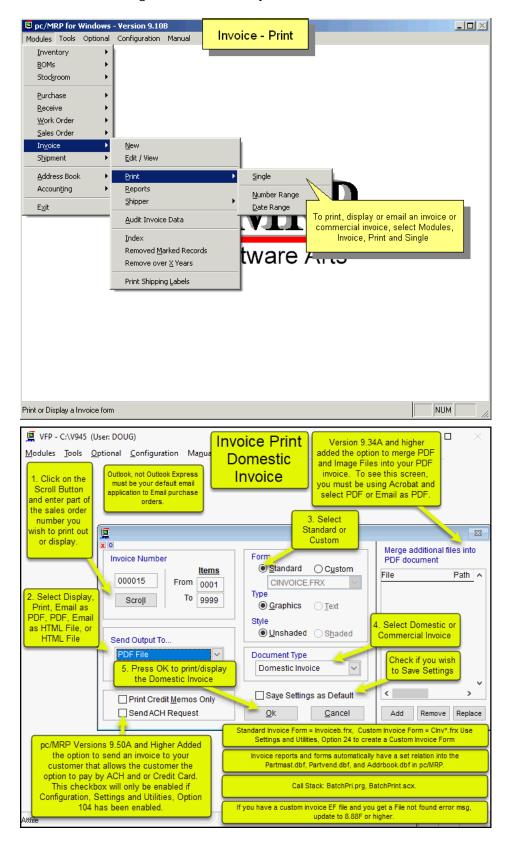
Reb

User is return to the Invoice Edit Screen. Invoice Qtys will be 19 and 15. User changes 19 to 18 and hits Save. Onhand Qty will then be 7.

Errlist

# 10.1.4.1 Printing a Domestic Invoice

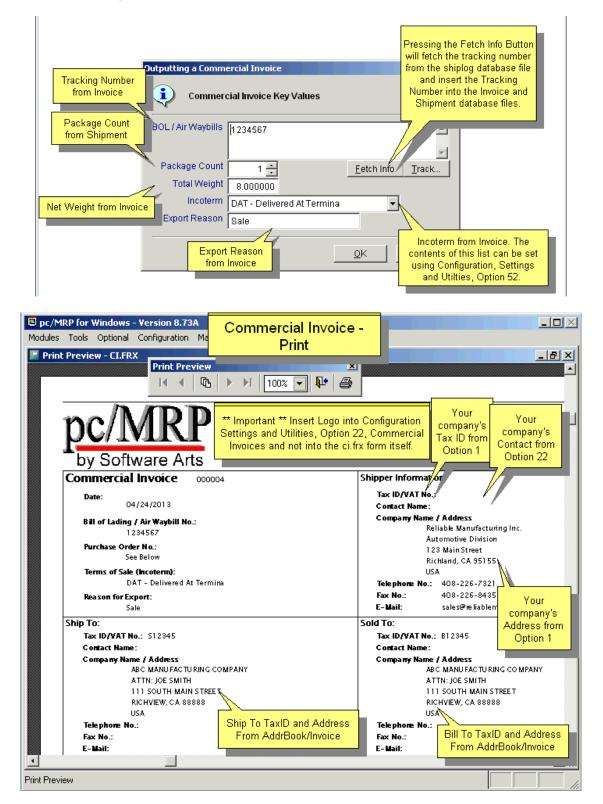
To print, display, email, fax an invoice, select Modules, Invoice, and Print. Sales Orders, Invoices, and Shippers can be configured to print out the Serial Number(s) or Model Number using the Configuration Menu's, Settings and Utilities, **Option 22**.



Modules Tools Optional Configuration Mi Print Preview - CINVOICEB.FRX [CINVOICEB.EF] Tomale an online payment, please use URLs https://s Tomale an online payment, please use URLs https://s Provide an online payment, please use use use use use use use use use u	DESERVER CUSTONER PH CUSTONER PH CUSTONER PH CUSTONER PH CUSTONER PH	CC ormat <u>n_UT2VEWow738xp560xer</u> tomer clicks on URL or so ode he can then pay by C ACH. Vers 9.50 or higher : JOE SMILES # : 980-112-1111 # :	
FAX: 408-247-8610 BBC MANUF ACTURING ATTN: 3DE SMITH 14900 FAST SPRAGUE SPOKANE, WA 99216 USA SHIP VIA: Will Call TERMS: Vie	SHIP ATTN: JOE SH TO 14900 EAST : ADDR SPOKANE, W USA	A 99216	
ITEM     PARTNO     QTYORD       0001     000000017     BEARING 2, 3"CO x 1" ID       111-0102-001     20       NOTES: Sales Drder boiler plate that can be transferred to the involce as per CO.       Settings and Utilities, Option 22, Invoi       Line 5       Line 6       Line 7       Line 9       Line 10	ansferred or onfiguration,	id in full (MDUE-MFPAIDT ay a Paid in full watermark 1.43E or higher. (paid_in_fu	c. Versions JII.bmp) 20.00 20.00 0.00
Versions 9.23B and higher will not display/print Sales line items marked for Deletion unless you crea Tempiny (c: vusers vooug vappdata viocar vemp voobboor, dor)			

# 10.1.4.2 Printing a Commercial Invoice

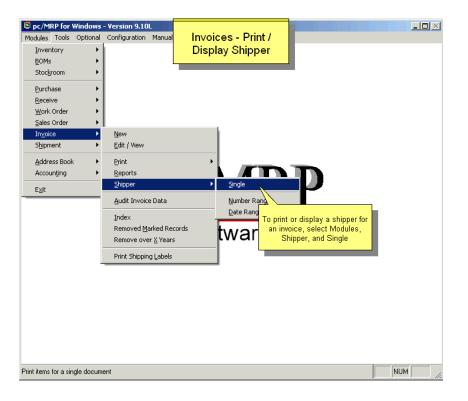
Select Commercial Invoice as the Document Type. (8.73 and higher) Clicking on the Fetch Info button will fetch the tracking number from the SHIPLOG database file and insert the tracking number into the invoice and shipment database files. The contents of the Incoterm list can be set in **Option 52** in Settings and Utilities.

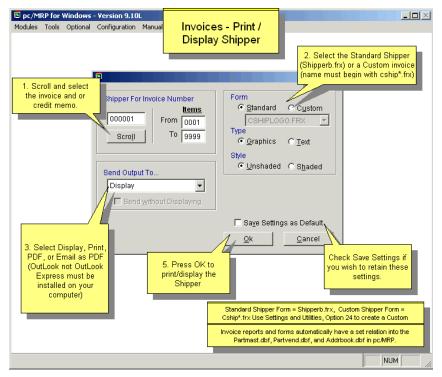


**Note:** While **Option 24** will be used for most forms and reports <u>to insert your company's LOGO</u>, <u>use **Option 22**</u> for the Commercial Invoice. You can still create custom commercial invoices from the standard CI.FRX, named as CCI\*.FRX.

# 10.1.4.3 Printing Shippers

Once pc/MRP has displayed or printed the invoice, it will ask if you wish to print out a shipper for the invoice. The shipper can be folded in thirds and placed in a clear shipping envelope attached to the shipping box with the shipping address displayed. Configuration, **Option 22** will allow you to enter Shipper boiler plate comments if you wish. The invoice's boiler plate will <u>NOT</u> be transferred to the shipper.





pc/MRP for Windows - Version 9.10L Modules Tools Optional Configuration     Print Preview - SHIPPERB.FRX     Print Previe     If I I	Displa	es - Print / y Shipper		
Software Arts 123 Main Street Richland, CA PHON E: 408-226-7321 FAX:			PAGE NO. IN VOICE SHIP DATE RELATED DOC # SALESMAN CUSTOMER PH # CUSTOMER PO # FOB	: 1 :000001 50 000101 09/11/2017 : : : 980-112-1111 : :
ABC MANUFACTURING COMPA ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	AN Y	BILL TO ADDR	ATTN: JOE SMIT 111 SOUTH MAIN	STREET
SHIP VIA: UPS	TERM	IS: Net30	AC	CT: ABC001
ITEM PARTNO MODELNO	DESCRIPTION UNIT	TOTAL QTYORD	PREVIOUS QTYSHIP	BKORD QTY Q1
0001 000000010	WHEEL ASSY	10.00		
NOTES:			display prim	Control F12 will hary and related all stack, etc.
empinv (c:\docume~1\doug\locals~1\temp\4	9680947.dbf)	Record: EOF/1	Exclusive	NUM

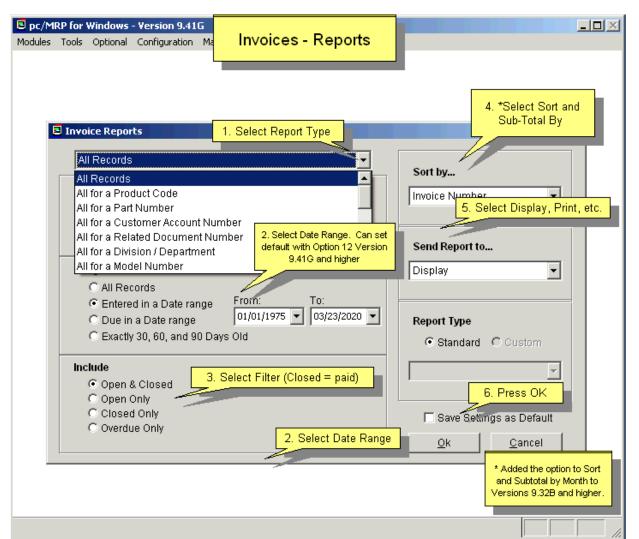
# 10.1.4.4 Printing Additional Mailing Labels

If you use Notepad to create a flag file called **IVMAILLB.FLG**, pc/MRP will add the option to print out mailing labels after the invoice is printed. Users can create custom address labels using pc/MRP's Custom Report Generator (**Option 24** in the Configuration, Settings and Utilities Menu). The custom labels be named CUSTADR\*.LBX or CUSADR\*.LBX. Create the custom address labels by opening a standard address label, addrlbm.lbx, modifying it and saving it as cusadr\*.lbx. '\*' is any alpha/numeric characters.

# 10.1.4.5 Pro Forma Invoice

Sometimes users need to print a sample invoice but without actually creating an invoice (and affecting onhand and shipped quantities, or closing the sales order). To do this, you can create a custom sales order form (not invoice!) and change the form title to "Pro Forma Invoice".

#### 10.1.5 Reports



Select Modules, Invoices and Reports to display or print out an invoice report. Allows users to print out or display various invoice reports (invlog.frx). See Section 15.4.1 to create custom sales order reports (cusinv\*.frx).

An example of a standard invoice report is shown below.

AGEND. 6/19/2002 ALL BYI	1 NVOICE NU	BER"		INVOIC	CE REPORT				
SALE S#	ITEM#	DATE SHIP	PART NUMBER	DE SCRIPTION	ACCOUNT	PO STED	QTY SHIP	TOTAL AMT	BALANCE DUE
NVOICEND		001							
00001 000	001 0001	06/18/02	000000001	BICYCLE TOP ASSEMB	ABC001		1.000	1500.00	1500.0
00001 000	001 0002	06/19/02	000000001	BICYCLE TOP ASSEMB	ABC001		1.000	1500.00	1500.0
NVOICENO	001	002			TOTAL		2.000	3000.00	3000.00
		002							
	002 0001	06/19/02	000000001	BICYCLE TOP ASSEMB	ABCOOL		1.000	1500.00	1500.0

# 10.1.6 Queried Search Overview (see 15.14.1)

#### 10.1.7 Audit Invoice Data

To audit invoice data, select Modules, Invoice, Audit Invoice Data. The utility will find and list any open invoices with zero balance, and/or any open invoices that are overpaid. The program will offer to fix these anomalies, i.e. close those invoices (set Complete to "Y").

#### 10.1.8 Indexed Searches (see 15.14.2)

#### 10.1.9 Index (see 15.14.3)

#### 10.1.10 Remove Marked Records (see 15.14.4)

#### 10.1.11 Remove Over X Years (see 15.14.5)

#### 10.1.12 Printing Additional Shipper Labels

To print additional shipping labels, select Modules, Invoice, Print Shipping Labels.

This option allows users to print out a shipping label for each shipping box required for an invoice. To activate this option in the Invoice menu, the **INVLAB.LST & INVSHIP.FLG** files must exist in the pcmrpw folder.

You can select a different printer by selecting **Print Setup**. Users can select what label to start on by using the **Start On** # spinner. This program allows the user to select pc/MRP's standard shipping label, **SHIPPER.LBX**). Users can create additional custom \*.LBX labels or \*.FRX forms. Any custom Label or Form you wish to utilize must be listed in a file called **INVLAB.LST**. This file can be created and or edited through Notepad.

The text in an example INVLAB.LST file is shown below:

SHIPPER.LBX = Standard pc/MRP shipping label. Six per sheet. 4" x 3-1/2" ACCURA.LBX = Standard Accura Precision shipping label LOCKHEED.FRX = Bar-coded label for Lockheed Martin TESTLAB.LBX = Label for testing purposes

When editing the **INVLAB.LST** file each line represents a different label. The first line of this file will read, SHIPPER.LBX = Standard pc/MRP shipping label.

It is important to **follow the same structure** as the first line when adding labels. The character = needs to follow the label file name. Following the = character is a description of the label.

If a file named INVLAB1.upf and INVLAB2.upf exist, pc/MRP will follow the commands in these 'in' and 'out' program files to display a custom screen which can also set up custom variables and arrays read by the custom label '.FRX' file.

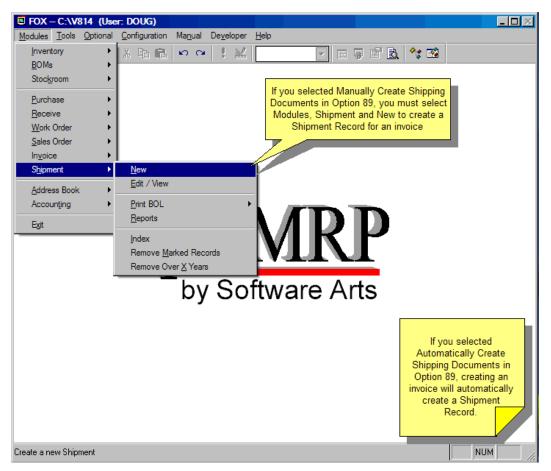
Modules Tools		T and INVSHIP.FLG files must exist in the pomrpw aber of labels (boxes) per line item by changing the "2 of 2". INVLAB.LST comes with pc/MRP. The
From: To:	Software Arts Inc 6830 Via Del Oro Suite 109 San Jose, CA 95119 USA ABC MANUFACTURING COMPANY ATTN: JOE SMITH 111 SOUTH MAIN STREET	Shipper # 000005 Customer PO # 12345 Shipped Via UPS FOB Output To © Display © Printer
Workfile (c:\docum	RICHVIEW, CA 88888 USA Select Specify Individual Box Quantities Allows the users to specify the qty in each box	t the label to start on Labe FirstSourceLab.lbx t the label to start on rint shipping labels. ecord: 1/1
Modules Tools C		nt Shipping Screen Quantity Boxes D-Code Lot Code 3789012345 10.000 Leave or Change the Quantity per Box

				Labels	Screen							
	🧧 L	abel Generator (Ir	nvoice)								×	
	Item # Part Number Description							oxes D-	Code Lo	t Code	_ <b>^</b>	
	000	1 000000010 W	/HEEL ASSY12	23456789012345	6789012345	10.	000		or Chan ntity per			
		J De Princeu								Date		
Print	ltem #	Part Number	Description			G	Quantity	Box #	of Boxes	Code	Lot Code	e
☑		000000010	_	3Y123456789012			5.000	1	2			
	0001	000000010	WHEEL ASS	3Y123456789012	3456789012		5.000	2	2			
⊢												
			_									
				If the user cl	necked "Spe	cify						
				Individual Box	: Quantities"	, this						
				screen will po								
			1	quantity per b	ept or edit ti	ne hox						
				quantity per t		50X.				<u>0</u> k		<u>C</u> anci
		🔽 Specify Ir	ndividual Box <u>G</u>	<u>uantities</u> <u>He</u>	<u>elp</u>		<u>0</u> k		<u>C</u> ancel			
									1			
Lablist	(c:\doc	ume~1\doug\locals~1	\temp\5026332	9.dbf) I	Record: 1/2		Exclu	sive			MUM	

pc/MRP for Windows - Version 9.05D Modules Tools Optional Configuration	Invoice Print Shipr	ping review				
Report Designer - shipper.lbx -	HIPPER.LBX = Standard pc/MRP shipping label. Six per sheet. 4" x 3-1/2"					
FROM	SHIP TO:	FROM	SHEP TO:			
Software Arts Inc 6830 Via Del Oro Suite 109 San Jose, CA 95119 USA	ABC MANUFACTURING COMPANY ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	Software Arts Inc 6830 Via Del Oro Suite 109 San Jose, CA 95119 USA	ABC MANUFACTU ATTN: JOE SMITH 111 SOUTH MAIN RICHVIEW, CA 88 USA			
CUSTOMER PO #: 12345		CUSTOMER PD #: 12345				
SHIPPER #: 000005	ITEM: 0001	SHIPPER #: 000005	ITE			
PART #: 000000010		PART #: 000000010				
DESCRIPTION : WHEEL ASSY12345678901234	156789012345	DESCRIPTION: WHEEL ASSY12345678901	2345678901234			
BOX QUANTITY: 5	UNIT:	BOX QUANTITY: 5	UNI			
BOX 1	. of 2	BOX	2of2			
Child DataBase File: ADDRBOO Child DataBase File: PARTMAST	Order: (copy of Invoice.dbf) + DateCode K Relation: UPPER(ACCOUNTNO) Skip: T Relation: UPPER(LEFT(PARTNO,MPNSIZI END Relation: UPPER(PARTMAST.PARTNO	E)) Skip:	• • *			
Labprnt (c:\docume~1\doug\locals~1\temp\5	50584513.dbf) Record: EOF/2	2 Record Unlocked	NUM //			

# **10.2 Shipment Module**

# 10.2 Overview. Create a shipment record



pc/MRP's new shipping module integrates pc/MRP with UPS's WorldShip or FedEx's Ship Manager. Users will no longer have to re-enter the customer addresses into UPS.

Users can also select 'BOL' from the Carrier Type dropdown list and create a Bill of Lading shipping document.

**Note:** If set to automatically generate a Shipment record for an invoice (**Option 89**), there must be a 'Shippable' partnumber on one of the invoice's line items. Otherwise <u>no</u> shipment record will be created. Parts are checked as shippable on the Inventory part's Miscellaneous tab; which then carries to the Sales Order line item and then to the Invoice on the Delivery tabs.

# 10.2.1 Step 1 Select an invoice to create a shipment record.

If a shipment record already exists for the selected invoice, a message will display informing you of that fact.

The easiest way to create a new Shipment record is to press the ellipsis button and then select an invoice from the scroll window that appears.

pc/MRP for Windows - Version 9.40H Modules Tools Optional Configuration Manual	Shipment Module
New Shipment C	Creation
VVhic	ch Invoice do you want to create a Shipment for?
	Invoice # 000001
	QK Cancel 1. Click on the Button to select the Invoice you wish to create a Shipment Record for.
	If a shipment record already exists for the selected invoice, a message will display informing you of that fact.

# 10.2.2 Step 2 Verify the data.

FOX -	- C:\V8	814 (User: DOUG)							_ D ×
<u>M</u> odules	<u>T</u> ools	Optional Configuration	Ma <u>n</u> ual De <u>v</u> elope	er <u>H</u> elp					
] 🗅 🖻	: 🗉	3 B. X B B.	ю сч 🕴 🕨	<u>/</u>	- E		*; 🖄		
	pment	(New Shipment)							$\mathbf{X}$
xo Shipm Ship	!'		ice # 000001 ler # 000001	General Info Carrier Type	Carrie	r Info	<u>_</u>	t UPS Ship Meth	od
	Ē	Residential			2nd Day Air	 _	Select	Package T	vpe
Recipi	ent ID	ABC001 Cust	PO#	Package Type				t Billing Op	
Com	pany 🛛	ABC MANUFACTURING CO	MPANY	1	Prepaid	 _	2		
Atte	ention [	ATTN: JOE SMITH			гісраіц	<u> </u>		nge UPS # ct or 3rd Pa	
Add	dress 7	111 SOUTH MAIN STREET							
	Ē					X0164			
	City	RICHVIEW		UPS	Weight 22	2.4			_
State	State / Zip CA S8888		Weight auto calculated						
Co	Country USA				Add C.O.D Amount			-	
						Confirmation			
Telep	hone g	980-112-1111				Adult Cor	nfirmation		
F	axno	980-112-1112							
	Email			]			Check	c if applicat	ole
Ship	Inv Iter	n Part Number	Description		Qty	Unit Weight	Tot. Weight	Pkg Count	
	0001	00000001	BEARING		2.0000	1.0000	2.0000	1	
	0002	00000002	SPOKES 10		2.0000	0.2000	0.4000	0	
	0003	00000010	WHEEL-ASSEMBL	Y-12345678901234	2.0000	10.0000	20.0000	0	
1							Press Ol	K to save	
						<u>0</u> k		<u>C</u> ancel	Т
Lv_shipme	nt			Record: 1/1		Exclusive		NUM	

All invoice shipping information is automatically filled in for you.

If you are interfacing with UPS WorldShip OnLine version 8.0, you must select 'UPS' for the Carrier Type.

Only parts checked as 'Shippable' on the Invoice's Delivery tab will be listed in the scroll window. If no items on the invoice are shippable, an informational message will appear stating that there are no shippable items for the invoice and a shipping document cannot be created.

**Note:** Parts are checked as shippable on the Inventory part's 'Miscellaneous' tab. **Note:** Unit weight comes from the partmaster (see 5.1.2.10 for the definition).

If Freight 'Collect' or 'Bill to 3rd Party' is selected as a billing option, you will have to enter the customer's UPS number after interfacing with the UPS online software.

All items must be checked (default) for the correct weight to be calculated for the shipment. This is NOT used to include or not include a line item for a shipment. It is assumed that the ALL INVOICE LINE ITEMS ARE SHIPPED on this document. You will not be able to partially ship an invoice and expect to ship the rest later. Create multiple invoices if you plan on splitting shipments.

Finish the data entry by pressing the 'OK' button to save the record.

# 10.2.3 Step 3 Go to the UPS WorldShip Online interface.



UPS WorldShip Online version 8.0 should already be installed on your computer or a shortcut to the program should be available as shown above. If installed and no icon is on your desktop, check within the Start, All Programs, United Parcel Service (UPS), and select UPS WorldShip.

Sections 15.17 and 15.18 of the pc/MRP Manual will help you set up your UPS WorldShip interface.

# 10.2.4 Step 4 Select the pc/MRP import mapper

FOX – C:\V814 (User: DOUG) Modules Tools Optional Configuration Manual De	veloper Helo
UPS WorldShip®	Select UPS Online Connect
	OnLine Connect Window Help
🛛 🗫 Pickup 🖉 😈 🛄 Ad 💳	nnection Assistant
Ba	tch Import
Ship to Ship From Distribution	tch Export port A Single End Of Select Keyed Import
	nds-Off Shipping Select Keyed Import Map
Company or <u>N</u> ame:	yed Import
Δ.	tomatic Export After Processing Shipment tomatic Export During End Of Day
Altention	tomatic Export of <u>H</u> AZMAT/DG After Processing Shipment <u>M</u> ore
Street: Cr	eate / Edit Map
Room/Roor/Address 2:       Department/Address 3:         Room/Roor/Address 2:       Postal/ZIP Code @:         United States       -         City:       State/Prov:         Telephone:       E-mail Address:         () - []       Tax ID Number:         UPS Account Number:       Tax ID Number:         Shipper:       Profile:	Image option:         Prepaid         Bill to Third Party         (Printed on Label)         Weight (pounds)         Package:         Shipment:         0.0         Electronic Scale Activated
WX0164 UPS Standard V	Add T Pkgs Delete Pkg
	Ver: 8.0.14 XOFY Pending: 0 Shpmt(s), // M CAPS

When the UPS WorldShip starts, select the menu item "**UPS OnLine Connect**", then "**Keyed Import**", and lastly, "**pcMRPUPS814A**". (The suffix of 814A means that pc/MRP's UPS interface works with pc/MRP versions 8.14A and higher.)

# 10.2.5 Step 5 Enter the invoice number to ship.

E FOX – C:\V814 (User: DOUG) Modules Iools Optional Configuration Manual Dev	veloper Help
and hit Enter	Invoice Number you wish to ship r. Do not click the Close Button, thave Processed all Invoices.
Shi       Enter import key:         Cut       000001         Cor       Image: Cor         Attention:       Image: Cor         Street:       Image: Cor         Boom/Floor/Address 2:       Department/Address 3:         Country:       Postal/ZIP Code ©:         United States       -         City:       State/Prov:         Teleghone:       E-mail Address:         () - []       Image: Cor         UPS Account Number:       Tax ID Number:         Shipper:       Profile:	? X       Options       Detail       Reference         ose       t       Package         vice:       Package       Package         Next Day Air       Package       Package         Saturday Delivery       Guaranteed Time:       Package       Declared Value: \$         Billing Option:       Prepaid       X       Reference Number 1:         Prepaid       X       (Printed on Label)         Reference Number 2:       (Printed on Label)         Weight (pounds)       Shipment:       Shipment Cost         Package:       Shipment:       \$         0.0       \$       \$
WX0164 VPS Standard V	Pkg:     H     I     H     Is NEW     Process Shipment       Add     I     Pkgs     Delete Pkg     Fit
For Help, press Shift + F1	Ver: 8.0.14 XOFY

After the UPS WorldShip software connects to the UPS website, the Enter import key input box will appear.

**Note:** Please be patient as it takes time for the UPS software to connect to pc/MRP's Shipment Module.

Enter the Invoice number of the Shipment record you previously created and press the '**ENTER**' key. <u>Do NOT press the Close button</u> at this time. When you are finished creating all the UPS documents to ship, then you can simply exit UPS WorldShip or press the Close button and then exit UPS WorldShip.

# 10.2.6 Step 6 Verify the shipment data.

Modules Iools Optional Configuration Manual Developer Help	
<u>File Edit Activities Ioo</u>	
Shipping Log Address ID is UP Keps	
pc/MRP's Address ID Is Service is automatically	
Ship To Ship inserted from shipment.	
Customer ID: Vupdate Address Book	
Company or Name: UPS Service: Package Type:	
ABC MANUFACTUPING COMPANY 2nd Day Air	
Customer's Address is Customer's Customer's Address is Customer's	s
ATTN: JOE SMITH automatically inserted Declared Value: automatically inserted	1
Street: Guaranteed Time: Reference Number	
1111 SOUTH MAIN STREET	
Room/Floor/Address 2: Department/Address 3: Prepaid U00001 (Printed on Label)	
Billing is automatically there 2:	
Country: Postal/ZIP Code ©: United States V 88888-	
City: State/Prov: Total Weight is (Printed on Label)	
RICHVIEW CA Weight (pour automatically inserted ost	
Telephone: Email Address: Package: pment: Click on Process	
(980) 112-1111 [ ]	t I
UPS Account Number: Tagent UPS Account Number Ups Shipping Label	
is automatically inserted	
WX0164 VIPS Standard VIPS Stan	
Repeat 1 Pkgs Modify Shpmt F10	
Ver: 8.0.14 XOFY Pending: 0 Shpmt(s),	

Verify the data automatically filled in by UPS WorldShip.

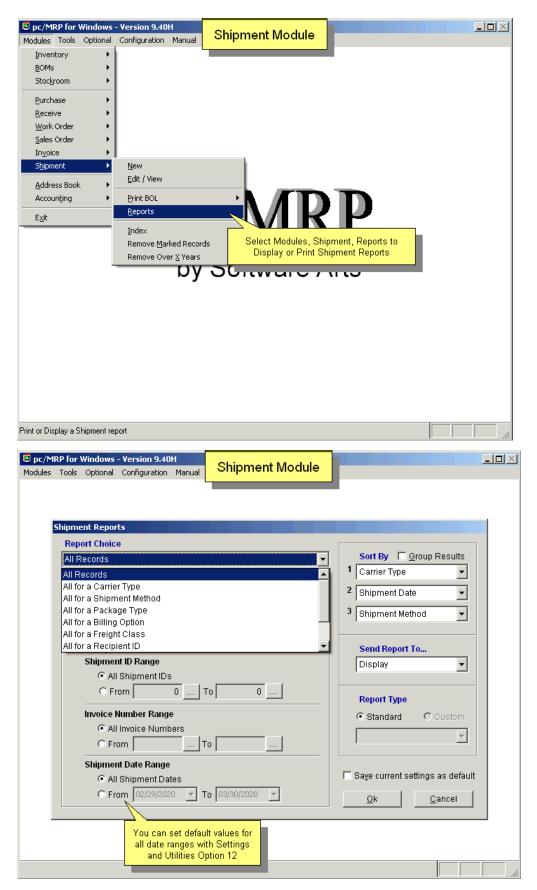
Please note several items are not required. The Customer ID and UPS Account Number are examples. Required data label fields are usually in blue color and normal fields are in black.

If you have chosen 'Freight Collect' as a billing option, the UPS Account Number would be a blue color and you would have to enter the customer's UPS number in this field. Your UPS number will stay in the 'Shipper' field.

Press 'Process Shipment' to complete the process and print the shipment document.

pc/MRP will import the tracking number from UPS to pc/MRP's invoices.

# 10.2.7 Shipment Reports.



		- Version 9.40 Configuration	Shi	pment Module		]
Print Pre	view - SHIP Pri	nt Preview	► ►I 100%	× • •		
AGENO. 1 3/30/2020 0 eport Criteria		cords		SHIF	PMENT R	EPORT
Shipment ID	Invoice Number	Shipment Date	Carrier Type	Shipment Method	Recipient ID	Recipient Name
1	000001	03/30/2020	UPS	Ground	Module Comma Module Comma Module Comma IcOutp	<ul> <li>shipment.fxp</li> <li>samisc.vct</li> <li>shipmentreport.sct</li> <li>and: DODEFAULT()</li> <li>samisc.vct</li> <li>and: PROUTPUT(IcOutFile,</li> </ul>
				Primary Database File: SHIPME Child DataBase File: SHIPITE		
1						

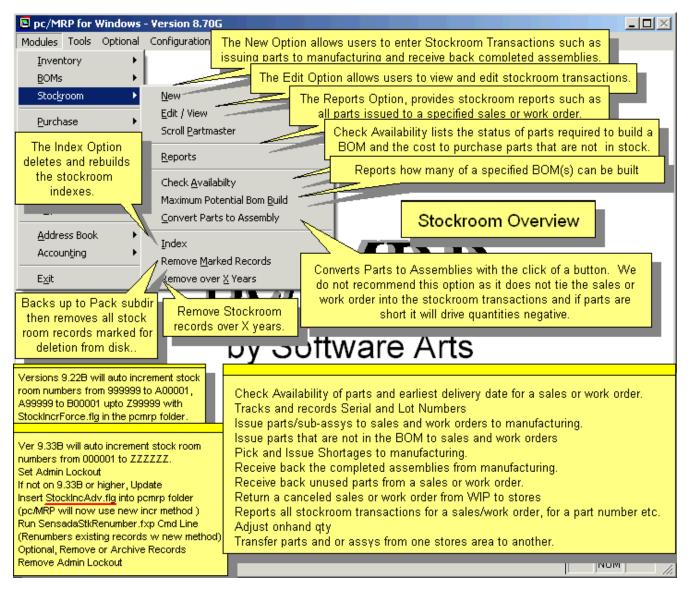
- 10.2.8 Queried Search Overview (see 15.14.1)
- 10.2.9 Indexed Searches (see 15.14.2)
- 10.2.10 Index (see 15.14.3)
- 10.2.11 Remove Marked Records (see 15.14.4)
- 10.2.12 Remove Over X Years (see 15.14.5)

# 11 Stockroom Module

# 11.1 Overview of the Stock Transaction Module

The Stockroom Module allows users to: issue parts and sub-assemblies to manufacturing, receive parts back from manufacturing as completed assemblies, backflush piece parts, issue parts and assemblies to shipping, transfer parts from one inventory area to another, and adjust the onhand quantities.

Every series of stockroom transactions to build your parts and raw material into assemblies) starts with an I-type stockroom issue. It might be followed by other types of issues, and always will be finished with an R-type transaction. Users can simply issue the sales order; there is no need to create work orders, unless you build for stock. pc/MRP will carry any shortages. We suggest that you only issue the quantity that is available, and don't allow MFG return when stock is short. This way your inventory won't go negative. See details in Section 11.2.5 below.



An online slideshow is located here: http://www.pcmrp.com/mrp101/stkroomnew.htm

Please Note with Versions 9.43A and higher, the Password Module can be used to restrict individual users from accessing one or more stockroom functions.

Dec/MRP for Windows Modules Tools Optional	Stockroom Overview Continued
	I Issues parts and sub-assys from stores to manufacturing for a specified sales or work order. This Option will decrement the onhand quantity and increase the quantity in WIP.
for a single stock room transaction.*	stock transition work order was issued.           - issue parts only for an assy(s) infinite levels deep to mfg
available stock.*	$\underline{L}$ - issue additional parts not listed in the BOM, or breakage. (not for makeup shortage) <u>M</u> - issue individual Makeup or shortage parts to mfg <u>P</u> - issue multiple make-up shortages from a single inventory area
between areas	E - issue multiple make-up shortages to mfg automatically <u>B</u> - issue parts or assemblies to Shipping, (DO NOT use this or <u>B</u> - transfer parts Between inventory storage areas
Receive back comleted assys	R - Receive completed assemblies from mfg and Back Flush consumed component parts         U - receive Unused returned parts from mfg (neg issue)         ⊻ - receive parts from ReceiVing         A - Adjust inventory onhand qtys
unused parts.	I - reTurn all parts/assys issued to a sales/work order
Adjust onhand qtys. Accounting can run a report for all adj transactions for a time period.	QKCancelThe T Option returns all parts and assemblies issued from a sales or work order from WIP to the stock room and changes the sales or work order to not issued to manufacturing. This function can be used when the wrong sales or work order is issued or the customer changes his mind and cancels or changes the original sales or work order.* The M, P and F Options all change the quantity required to equal the qty issued in the original transactions and create a new transactions issuing the additional quantity to the sales or work order. A user can drive onhand quantities negative with the P option. We recommend using the P Option and not the M or F Options.

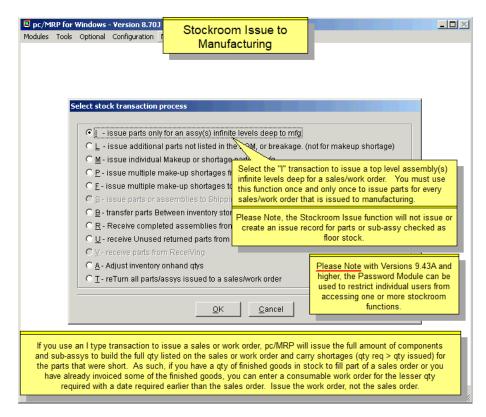
### Stockroom Transaction Type Codes

ISSTA: Stock Adjustment (Decreasing) ISSTB: Stock Transfer (Stores to other area) ISSTM: Stock Issue to MFG ISSTS: Stock Issue to Shipping RECFA: Stock Adjustment (Increasing) RECFB: Stock Transfer (other area to Stores) RECFM: Receive back from MFG RECFR: Receive from Receiving

#### 11.2.1 Issue parts/sub-assemblies to a sales or work order Step 1 – Press New

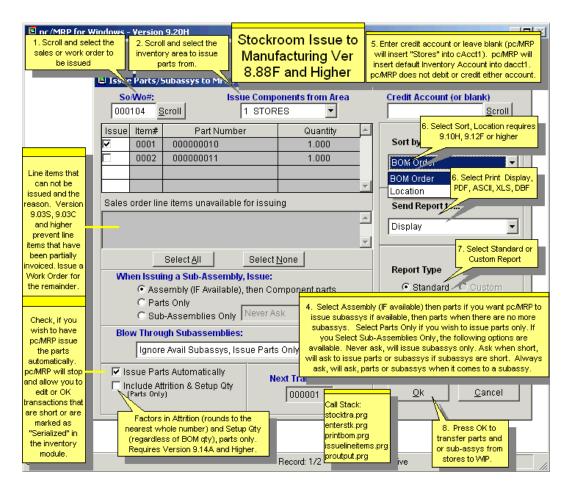
E pc/MRP for Modules Tools			Magual		
Inventory BOMs					
Stockroom	Þ	New		L	
Purchase Receive	+ +	<u>E</u> dit / View Scroll <u>P</u> artm	aster	<u>N</u>	<b>.</b>
<u>W</u> ork Order <u>S</u> ales Order In <u>v</u> oice	+ + +	Reports Check <u>A</u> vai Maximum P	labilty otential Bom Build	To Issue parts to manufacturing, receive back completed assemblies from manufacturing, transfer parts	
<u>A</u> ddress Book Accounting	C ►		ts to Assembly	between stores areas, or adjust on hand quantities, select Modules, Stockroom, and New.	
Egit		Remove <u>M</u> a Remove ov	arked Records er <u>X</u> Years	<b>VIKP</b>	
		J	by Soft	ware Arts	
Create a New Stoo	ckroom Tra	insaction			NUM

### 11.2.2 Issue parts/sub-assemblies to a sales or work order Step 2 – Select Issue



Select the "I" transaction to issue a top-level assembly(s) infinite levels deep for a sales/work order. You must use this function once and only once to issue parts for every sales/work order that is issued to manufacturing.

## 11.2.3 Issue parts/sub-assemblies to a sales or work order Step 3



On the next screen select the inventory area you wish to issue the parts from. pc/MRP cannot issue from multiple areas during the I type transaction. If a user wishes to issue part of the build from one inventory area and other parts from a <u>different inventory area</u>, they will have to issue the I transaction short, and perform make up transactions, P (preferred) or M or F type transactions to issue from the alternate area.

pc/MRP will display the next available stock transaction number. Enter the sales order or work order number you want to issue. Then select all the line items you want to issue. Line items that can not be issued and the reason they can not be issued, will be displayed in the scrollable list box below the line item list. For example you cannot issue a SO line item that has been partially shipped.

Enter the account number to credit for these parts only if required to do so by accounting, otherwise leave this space blank (pc/MRP's accounting package does not use this field). pc/MRP will save typed in content or selected chart of accounts number in the Stockroom's cacct field.

**Note:** If you use an I type transaction to issue a sales or work order, pc/MRP will issue the full amount of components and sub-assys to build the full qty listed on the sales or work order and carry shortages (qty req > qty issued) for the parts that were short. As such, if you have a qty of finished goods in stock to fill part of a sales order or you have already invoiced some of the finished goods, you can enter a consumable work order for the lesser qty required with a date required earlier than the sales order. Issue the work order, not the sales order.

By default, pc/MRP will automatically issue items. If you prefer to verify each item or record serial/lot numbers using pc/MRP's standard serial/lot number features, uncheck the "**Issue parts automatically**" check box. If "Issue Parts Automatically' is checked and **Option 45** in Settings &

Utilities is set to Issue Quantity Required instead of Issue Quantity Available, pc/MRP could drive On-hand quantities negative as if there is a shortage.

pc/MRP must be told how you want to issue the items. You can issue component parts only, sub-assemblies only or both part and sub-assemblies.

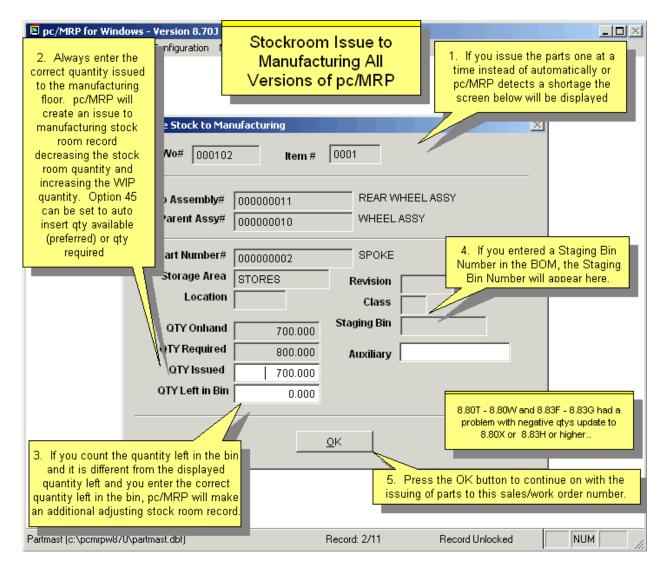
- Select **Assembly (IF available) then parts** if you want pc/MRP to issue sub-assemblies, if available, then parts when there are no more sub-assemblies available.
- Select **Parts Only** if you wish to issue parts only and no completed sub-assys, even if they are available.
- If you select **Sub-Assemblies Only** the following options are available:
  - Never Ask, will issue sub-assemblies only.
    - **Ask When Short**, will ask to issue parts or subassemblies if subassemblies are short. If you select Parts, it will issue remaining sub-assemblies and then parts.
  - **Always Ask**, will ask to issue parts or sub-assemblies when it comes to a sub-assembly. If you select parts, it will issue parts.

The resulting PIC list can be sorted by BOM order or by Location (9.10H, 9.12F and higher).

#### 11.2.4 Issue parts/sub-assemblies to a sales or work order Step 4 – Handle any Shortages

If you issue the parts one at a time instead of automatically or pc/MRP detects a shortage the screen shown below will be displayed. **Option 45** can be set to default the Qty Issued Field to the quantity available or the quantity required. We recommend you set Option 45 to the Quantity Available and always insert the actual quantity issued, as this will keep your WIP straight. (The qty issued and the qty left in stock fields are pre-populated according to the setting in Option 45.) If you set Option 45 to Required, you do not answer 'Yes' to track serial numbers, and you have checked Automatic issue, the screen above will not appear and part quantities can be driven negative.

Always enter the correct quantity issued to the manufacturing floor. pc/MRP will create an issue to manufacturing stock room record decreasing the stock room quantity and increasing the WIP quantity. If you count the quantity left in the bin, it is different from the displayed quantity left, update that field and pc/MRP will make an additional adjusting stock room record.

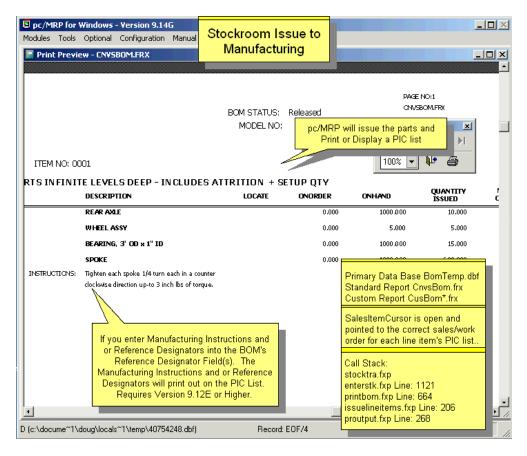


Whenever users enter an "I" type transaction, pc/MRP creates a stock transaction record for each part or sub-assembly issued. Each stock transaction record created contains the following fields:

- The stock transaction number (stktrano)
- The sales/work order number (sono)
- The part or assembly number being issued (partno)
- The quantity required (qtyreq)
- The quantity issued (qtyissued)
- The quantity returned (returnqty) is left at 0, as this field is filled in when the sales order is received back as completed assemblies.

pc/MRP for Window	rs - Version 8.80T	Staalwaawa laawa ta	
Modules Tools Option	al Configuration M	Stockroom Issue to	
		Manufacturing All Versions 8.80V, 8.83G and higher.	
	Inventory Status (	hange	
	A The inv	ntory status of your part has changed since you be	nan issuing it
		rested quantity of 700 is no longer available.	Jan looting Ki
	PART N	JMBER: 00000002	
		IPTION: SPOKE LE QTY: 0	
	Please	e-define your issue of this item.	
		OK	
		If the same part number	upp issued
		If the same part number received or invoiced by a	
		the Shortage or Serial	
		Screen was left open, yo message similar to this s	
		the OK Button to c	
Partmast (c:\pcmrpw880\p	artmast.dbf)	Record: 2/11 Record U	nlocked NUM
pc/MRP for Window	rs - Version 8.80T		
Modules Tools Option	al Configuration M	Stockroom Issue to	
		Manufacturing All Versions 8.80V, 8.83G and higher.	
Issue Stock to M	anufacturing	×	
So/Wo# 00010	02 Item #	0001	
Top Assembly#	00000044	REAR WHEEL ASSY	
Parent Assy#		WHEEL ASSY	
Farent Assyn	000000010	WILLE A001	
Part Number#	00000002	SPOKE	
Storage Area		Revision	
Location		Class	
		- Staging Bin	
QTY Onhand	1 0.000		
QTY Required	700.000	Auxiliary	
QTY Issued	0.000		
QTY Left in Bi	n 0.000		
		<u>ok</u>	
		In this example all 700 were issued to a	another sales or work
		order while the Shortage Screen was left	open. So in this case
		the operator would now issue 0 and carry part is restocked, the stockroom can re-is	
Partmaat (al\ naarraw000) -	artmaat dhfi	Pick make up shortages, for this sa	
Partmast (c:\pcmrpw880\p	arunascoof)		

pc/MRP will produce an "Issued PICK List" report containing the details of all items issued. The report can be displayed, printed, or saved as a PDF file.



### 11.2.5 Issue parts/sub-assemblies to a sales or work order Step 5 – Record Serial Numbers

Please see Chapter 16.10 in this Manual.

#### 11.2.6 Issue parts/sub-assemblies to a sales or work order Step 6 – Print PIC List/Labels

Users can create a flag file (an empty text file) allowing labels to be created for the items being issued to manufacturing. The flag file has to be named **ISSTKLAB.FLG** and can be created with Notepad, save it without any content. If this file is present in the pcmrpw directory the screen shown below will appear.

This option allows users to select various criteria, a specified work order, and multiple output types for the labels to be created.

E Labels	
Label Type Paper Feed	Send To
Stock Issue	Print
Work Order 000101 Item # 0001 Scroll	Output Type Standard Custom Carcode
Sort Options	Report Form
Primary Sort Order Secondary Sort Order Part Number Issue Order	
	<u>O</u> k <u>C</u> ancel

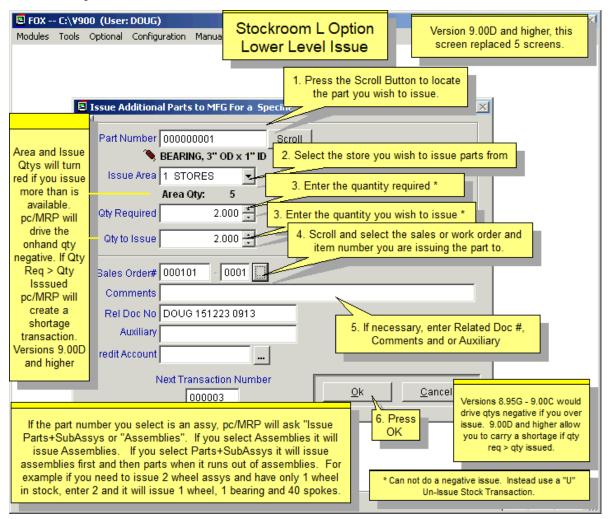
Creating a file named "**ALLOWPARTISSREC.FLG**" with Notepad, will allow pc/MRP to issue to Manufacturing a Sales/Work Order line item that contains an inventory part instead of an assembly. Only the part listed on the Sales/Work order line item will be issued. Please note that no picklist will be printed. This flag file will also allow you to receive back such Sales/Work Order line item. This transaction will remove from WIP all the parts issued to that Sales/Work Order line item (i.e. the part listed on the Sales/Work order line item and any additional material issued with consecutive L-type issues) and increase the quantity of the part listed on the Sales/Work order line item. Software Arts does not recommend using this option.

# 11.3 Other Types of Stockroom Issues

# 11.3.1 L - Issue Part(s) and/or Assemblies one Level Deep to Manufacturing

Only use this function to issue extra parts or parts that were not on the Bill of Materials. Select an "L" transaction to issue a part, or combination of parts and completed sub-assemblies for a sales or work order to manufacturing. You will be asked whether the information is to be manually entered or imported from an ASCII file. Manual entry is the most often used method and will be explained first. pc/MRP will reduce the onhand quantities and increase the WIP quantities of the parts and sub-assemblies issued.

If the number entered was a BOM number, pc/MRP will ask if you wish to issue the BOM to the floor as a completed assembly or as component parts. If you choose to issue as a completed assembly, pc/MRP will issue the assembly as completed assembly. If you choose to issue the assembly as component parts, pc/MRP will issue assemblies first, then component parts when it runs out of assys.



pc/MRP will display the available quantity in the selected inventory area. As you enter the Qty Required, pc/MRP will automatically fill out the Qty to Issue. (1) If Option 45 is set to Qty Required (not recommended), Qty to Issue will be Qty Required. If the Qty to Issue is greater than the inventory quantity in the selected area, your inventory quantity will be taken to negative, and no shortage will be created. (2) If Option 45 is set to Qty Available (recommended), Qty to Issue will be Qty Required or Area Qty, whichever is smaller. pc/MRP will create a shortage that can be filled later, and does not take inventory negative. You can still issue more than available (pc/MRP will warn you against doing this) by overwriting the Qty to Issue to a higher number. In this case, just as in (1), your inventory quantity will be taken to negative, and no shortage will be created. See the picture above for earlier pc/MRP versions.

Creating an empty text file, **LISSUPWO.FLG**, with Notepad in the pcmrpw directory will force pc/MRP to insert a 'Y' into the Sales/Work Order 'Issued to MFG' (ISSTM) field. This is not recommended, as pc/MRP will not allow an 'I' type issue transaction to that Sales/Work Order afterwards. The ISSTM Y value allows the SO/WO being received back from manufacturing (R type transaction).

If you enter an L-type transaction for a sales/work order that has been received back from MFG, you will get the following warning message:

E FOX C:\V900 (User: Modules Tools Optional		Stockroom L Option Lower Level Issue		
	·		If the sales or work orde been received back, p display the following war	c/MRP will
iss Qty If yc Will Qty Thi	The sales/work of received back froe Do you still want but press Continue and ue the quantity issued = Qty Require but press Continue and i issue the quantity issued = Qty Require swill not leave a shor nsaction and increase	d you have sufficient quantity, pc/MRI d, decrement the on hand quantity. d = Qty Returned. d you do not have sufficient quantity, sued, decrement the on hand quantit d = Qty Returned. tage. To leave a shortage, edit the si the quantity required. <u>Continue</u> <u>Cancel</u>	P will pc/MRP by and	e following text g message.
Sales (c:\v900\sales.dbf)		Record: 1/3	Record Unlocked	NUM

### 11.3.2 Importing Part Number and Quantity information

Importing creates a series of "L" type Stockroom transactions from a comma separated ASCII file (.CSV file). This file may be generated by a barcode reader or produced by another program. The ASCII file must contain the Part number and Quantity information and may contain other optional information.

The data structure of the ASCII file is shown below. The screen to the right configures the import

DATA	TYPE
Part Number	6-15 Character
Quantity Issued	Numeric
SO/WO Number (leading 0s)	6 Character (optional)
SO/WO Item Number (leading 0s)	4 Character (optional)
Issue Area (same as area name)	8 Character (optional)
Lot Number	6 Character (optional)
Quantity Required	Numeric (optional)

. <u></u>	×
Location and Name of the ASCII file to	Import
	<u> </u>
SalesWork Order Information	Issuing Area
Automatic     Manual	1 STORES -
SO/WO Item	Chart of Accounts
NONE 0001	Automatic
Scroll	C Manual
Lot Tracking	☐ Sa <u>v</u> e Option Settings
Off	<u>O</u> k <u>C</u> ancel

process.

- Enter the Location and Name of the ASCII file to Import or use the Find button to browse for it.
- Configure the Sales/Work Order Information to meet your situation.
- The **Automatic** setting will draw the sales/work order number from the import file. If the sale/work order number does not exist in the import file or it is invalid, the program will halt at each item and prompt the user to enter the correct sales/work order for that part.
- If all the items to be issued are against the same sales/work order, selecting **Manual** allows a one-time entry of the sales/work order number, which is then applied to all items issued.
- Lot tracking has three possible settings:
  - Automatic pulls the information from the source file.
  - Manual stops at each issue item and prompts the user to enter the Lot Number.
  - Off turns off lot number tracking
- Any of the twenty storage areas can be manually selected as the issuing area or it can be set to automatically draw the issuing area from the import file.
- Pressing OK will begin the import process.
- If any errors are detected during the process, an error report will be available after completion.

### 11.3.3 M - Issue Makeup or Shortage Parts to Mfg

We strongly recommend using the stockroom's P option instead of the M or F options to issue makeup shortages to sales and work orders.

Enter the stock transaction number of the part that is short. The stock transaction number can be located on the stock transaction report for that sales/work order number.

pc/MRP will allow you to enter the lot number and the quantity required to fill the shortage. pc/MRP will then reduce the onhand quantities and increase the WIP quantities of the parts issued.

pc/MRP will create a new issue transaction for makeup transactions and the quantity required will be reduced to equal the original quantity issued in the original stockroom record.

If the sales order is closed, pc/MRP will not allow you to issue a makeup issue against the order.

The M type stockroom issue does not provide a pick list.

### 11.3.4 F - Issue Multiple Makeup Shortages to Manufacturing Automatically

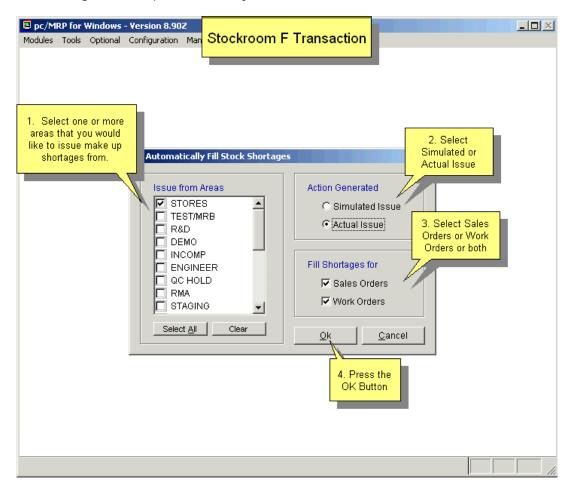
We strongly recommend using the stockroom's P option instead of the M or F options to issue makeup shortages to sales and work orders. Versions 9.41B and higher will include Location Column for both the P and F Options.

Use this function to automatically issue make up shortages for items that were short when the original "I" type transaction was issued for a sales/work order number. It will fill as much of the shortage as the inventory level allows while giving priority to the sales/work orders with the earliest date required. This function looks at shortages for open sales and work orders (complete does not equal Y) that have been issued (issuedtmf = Y) that now have stock available to be issued (onhand greater than 0).

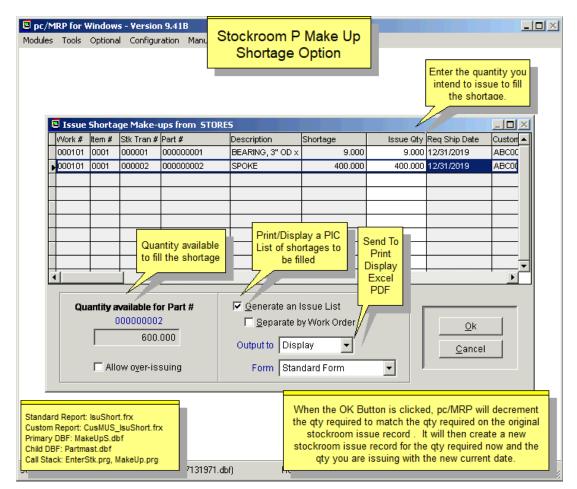
The user can select the inventory area(s) to consider when issuing items. The user also has the ability to issue only to sales order transactions or work order transactions.

Two reports are available after completion. The Action report details all of the stockroom shortages that were filled. The Make-up shortage Pick list produces an inventory list of material from each inventory area to be transferred from inventory to WIP.

The user may elect to actually issue shortage make-ups or to simulate the shortage make-ups. Actually issuing will produce the reports described above while reducing the quantity of the parts from the issuing area and increasing the quantity in WIP. Simulating the shortage make-ups will produce the same reports as the actual issue without transferring inventory. This allows the user to check the shortage make-ups before they are transacted.



# 11.3.5 P - Issue Multiple Makeup Shortages from a Single Inventory Area



The P option allows users to fill stock room shortages from a list of possible stockroom transactions that were issued short. When users select this option, pc/MRP will create the screen above. This screen allows users to select the criteria to generate the list of shortages to be filled.

The P option will modify the original stockroom issue record, reducing the quantity required by the quantity issued in this new transaction. It will create a new stockroom issue record; the required quantity and the issued quantity both will be the quantity issued in this new transaction. (This way the required quantity in the two transactions will add up to be the original required quantity.) The new transaction will use the current cost from the part master and the current date.

- 1. Select the area where the parts will be issued from.
- 2. Select the desired sort order.
- 3. The Issue Shortage Make-ups screen allows users to choose from a list of shortages that can be filled and fulfill them by entering the desired quantity to be issued.
- 4. Highlight the shortage that you wish to issue and enter the quantity in the Issue Qty field.
- 5. Continue this process until you have selected all of the shortages you wish to fulfill. The quantity still available to be used is displayed in the bottom left corner of the screen.

Users can have the Issue Shortage option generate a report. This report can be sent to several output types.

If the Serial/Lot Number Module is being utilized, once the items have been selected and the user presses OK, the user will be prompted to track serial numbers as needed.

**Note:** The 'P' type transaction must have a positive quantity on hand in the chosen inventory area in order for the shortage to be displayed. Versions 9.41B and higher will include Location Column.

# 11.3.6 S - Issue Parts or Assemblies to Shipping

Enter an "S" to issue parts or assemblies to shipping.

This option was created for companies that <u>do not</u> use pc/MRP's Invoice module. If you use this option, set the inventory Adjustment method, Option 4, to 'S'. Do not use this option if you are using pc/MRP's Invoice module, as you will get a double decrement on your invoice movement report. pc/MRP will not allow the 'S' or 'V' transactions if **Option 4** is set to 'A'.

pc/MRP will issue each line item as you have configured it on this screen. The onhand quantity of each part shipped will be reduced if pc/MRP is configured to do so in the Configuration Menu.

pc/MRP for Windows - Version 8.04E (User: DC	DUG)
Modules Tools Optional Configuration Manual          1. Enter or scroll for the sales order number.       2. Select the area the parts are to shipped from.         Sale Work # Issue Area         000101       1 STORES	3. Users who have purchased the optional Serial/Lot Number module can elect to track the serial or lot numbers of the material that is issued.
Scroll Track SN/Lot	RICHUIEW, CA 88888 USA
ITEM PART #         Description           0001         050080010         Wheel Assy           0002         000, 3011         Rear Wheel Assy           0003         00000         Uheel Assy	ORDER QTY         ISSUE QTY           4.000         4.000           2.000         2.000           2.000         2.000
quantity that you want to issue Sales Order contains a "Y" or it the order quantity. If the qua	f all open items in the Sales Order with the order quantity and the e. Items will not be included on the list if the Complete field on the f the quantity previously issued against the item equals or exceeds intity to be issued exceeds the quantity available in the selected on point "!" will appear to the right of the issue quantity number.
	00000010
automatically set the issue quantities to issue as much of the item as is available in the selected Inventory area, up to the order quantity.	Manually enter Issue Qty and or Serial/Lot Number of the selected item. The Full, Limit and Zero, buttons function just like the Full Fill, Limit Fill and Zero All buttons but affect only the highlighted item.

#### In the upper left corner of the window:

- The Sales Order number against which the material is to be issued can be manually entered or you may elect to pull the number in by scrolling the Sales database.
- This is where the Inventory area from which the material is to be issued is selected.
- Users who have purchased the optional Serial/Lot Number module can elect to track the serial or lot numbers of the material that is issued.

#### In the upper right corner of the window:

The customer address is displayed so the user can verify that the correct Sales Order is to be processed.

#### In the center of the window:

• Displays a scrollable list of all open items in the Sales Order with the order quantity and the quantity that you want to issue. Items will not be included on the list if the **Complete** field on the Sales Order contains a "Y" or if the quantity previously issued against the item equals or exceeds the order quantity.

• If the quantity to be issued exceeds the quantity available in the selected inventory area, an exclamation point "!" will appear to the right of the issue quantity number. See Item 0002 on the example picture above.

# In the lower left of the window:

- The **Full Fill** button will automatically set the issue quantities for all the items to equal the order quantities.
- The Limit Fill button will automatically set the issue quantities to issue as much of the item as is available in the selected Inventory area, up to the order quantity.
- The Zero All button will reset all issue quantities to zero.
- The More Detail button is not used when issuing to shipping.

### In the lower center of the window:

- This section displays information about the item currently highlighted in the center section. It also displays the quantity of this item currently available in the selected Inventory area.
- At the bottom of this area, you can manually set the issue quantity and enter a serial or lot number to be associated with this item. The serial/lot number will be retained as part of the Stock transaction record.
- The Full, Limit, and Zero, buttons function just like the Full Fill, Limit Fill, and Zero All buttons but affect only the highlighted item.
- The Item Detail button, like the More Detail button, is not used when issuing to shipping.
- In the lower right corner of the window:
- The **OK** button begins the issue process for the items you have specified while the Cancel button exits the screen without making any changes.
- The **Default** button opens a second window where some of the behavioral characteristics can be set.

# 11.3.7 The Default Settings window: (The initial default settings are shown.)

Default settings for Issuing to SI	hipping 🛛 🔀
START WITH Issue Quantities © Order Quantity © Available in Area © Zero	<ul> <li>Update quantities when Area changes</li> <li>Warn if over issuing against Order</li> <li>Warn if insufficient quantity in Area</li> <li>Track Serial/Lot Numbers</li> </ul>
Issue Area 1 STORES 🔻	<u>S</u> ave <u>Cance</u>

When a Sales Order is loaded into the first window for processing, the issue quantities for all items will be automatically entered based on the default **Issue Quantities** setting displayed in this window. The default Inventory issuing area can also be specified.

If the **Update quantities when Area changes** box is checked, changing the Inventory area on the first screen will automatically update the issue quantities based on the Issue Quantities setting.

If the **Warn if over issuing against Order** box is checked, a warning message will appear before transaction processing begins if the issue quantity of any of the items exceeds the order quantity. You then have the option to continue with the over-issue condition or return to the window for further editing.

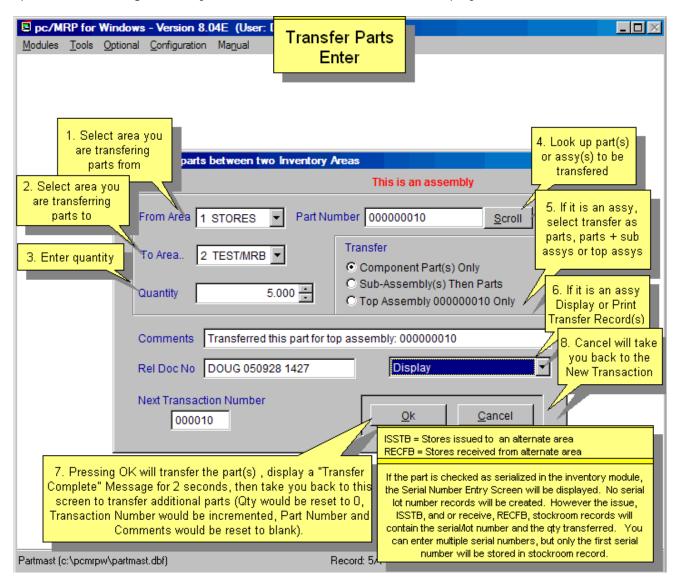
If the **Warn if insufficient quantity in Area** box is checked, a warning message will appear before transaction processing begins if the issue quantity of any of the items exceeds the quantity available in the selected Inventory area. You then have the option to continue with the over-issue condition (which will drive the Inventory quantity negative) or return to the window for further editing.

The **Track Serial/Lot Numbers** box will be available for those users who have activated the optional Serial/Lot Number module. When this box is selected, the Track SN/Lot check box on the first window will start in the checked condition.

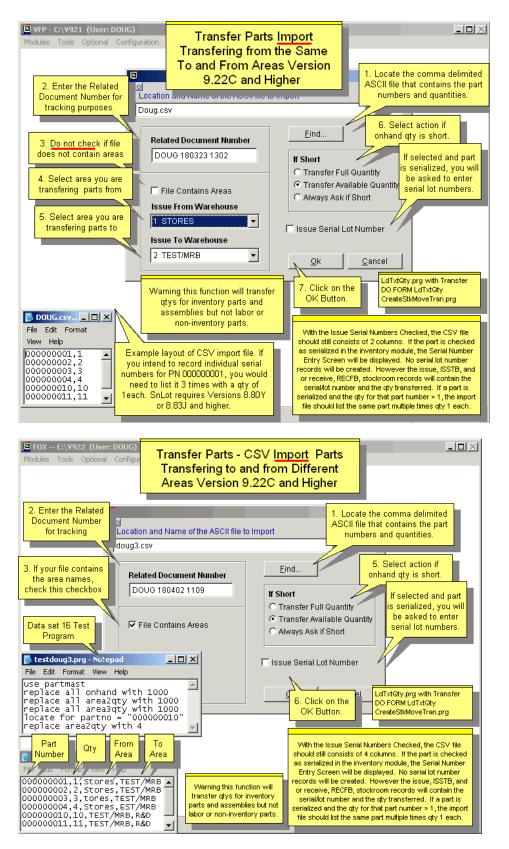
### 11.3.8 B - Transfer Parts Between Inventory Areas

Transferring inventory from area 1 (Stores) into an alternate area creates an ISSTB record. Transferring inventory from an alternate area into area 1 (Stores) creates an RECFB record. Transferring inventory from an alternate storage area into another alternate storage area creates both an ISSTB and an RECFB record.

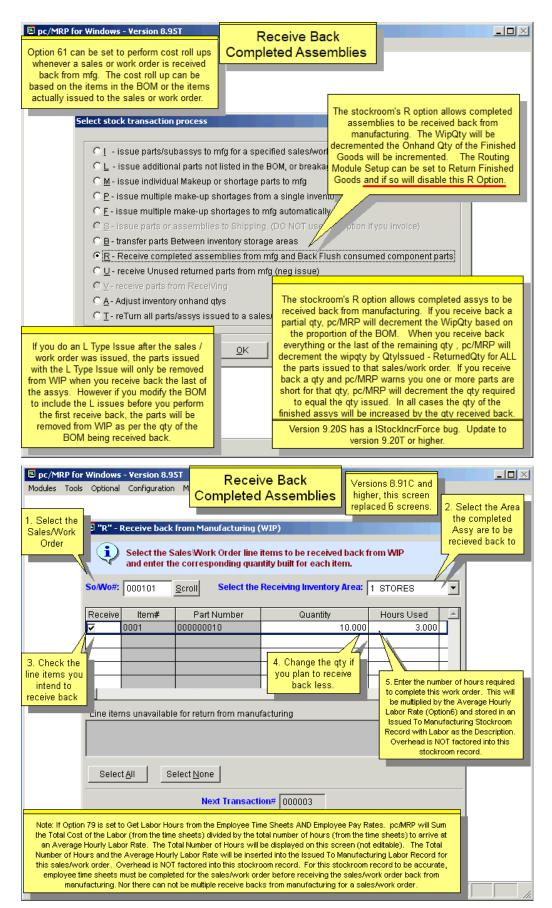
If you select to transfer parts between areas, you can enter the information manually or you can import it. If entering manually, the screen shown below will be displayed.



If the user selects to transfer parts between inventory areas using a CSV list of part numbers and quantities, the screen shown below is displayed. Your file should consist of two columns: part number and quantity. You can import as many transactions as you wish but only for one From Area – To Area combination at a time.



## 11.4 R - Receive Back Completed Assemblies from Manufacturing



This module allows completed assemblies to be received from the manufacturing floor back into the inventory. pc/MRP uses the following pseudo code:

- Find the stock transaction records for that sales/work order number.
- Reduce the quantity in WIP by the quantity issued to the sales/work order based on the BOM and the parts and sub-assemblies issued. The return quantity field contains the quantity WIP was reduced by.
- When the final assembly is returned pc/MRP reduces WIP by the difference of the quantity issued and the returned quantity. It also increases the quantity returned to match the quantity issued. pc/MRP decreases the quantity required to match the quantity issued. As such, it will not leave shortages in the stock room records for sales/work order that were completed and returned to the stock room.

The above method allows overages and waste to be deducted from WIP. It also does not require all parts to be issued before part of the sales/work order is returned as finished assemblies.

pc/MRP will ask for the sales/work order number that you wish to turn in as completed assemblies. It will then locate the original sales/work order record to determine how many assemblies were originally ordered and issued. pc/MRP will ask for the quantity being received and then increment the onhand quantity of the assembly listed on the sales/work order. Next, it will search the stock transaction database file and decrement the WIP quantities of all parts issued to manufacturing for that sales/work order. If you are turning in a partial order, it will make a partial deduction of the parts issued to manufacturing for that sales/work. For example, if you are turning in 6 completed assemblies for a sales/work order for 10 assemblies, pc/MRP would decrement the exact quantity of bolts, nuts, wheels, etc. for six assemblies.

Users can enter the number of hours used to complete this assy(s). pc/MRP will multiply the number of hours and the average hourly labor rate found in Configuration, Settings and Utilities, **Option 6**. Alternately, if you have pc/MRP's Employee Time Sheet Module you can set **Option 79** to get the labor cost from this module. If people have not filled out their time sheets before the sales or work order is received back the labor costs will be short. However the Employee Time Sheet Module will contain the true labor cost (for everybody's labor rate) once everybody has turned in their time cards.

Creating a file named "**ALLOWPARTISSREC.FLG**" with Notepad, will allow pc/MRP to issue to Manufacturing a Sales/Work Order line item that contains an inventory part instead of an assembly. Only the part listed on the Sales/Work order line item will be issued. Please note that no picklist will be printed. This flag file will also allow you to receive back such Sales/Work Order line item. This transaction will remove from WIP all the parts issued to that Sales/Work Order line item (i.e. the part listed on the Sales/Work order line item and any additional material issued with consecutive L-type issues) and increase the quantity of the part listed on the Sales/Work order line item. Software Arts does not recommend using this option.

#### Note:

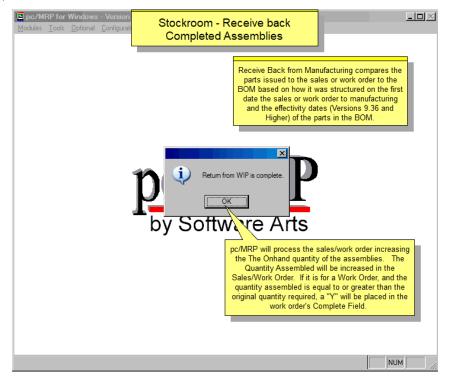
- You can start receiving back completed assemblies (for a partial quantity) even while you still have some shortages.
- If you plan to turn in completed sub-assemblies for a sales order, issue the sub-assemblies under their own work order numbers.
- If you are utilizing the Serial Lot Number Module, you can also issue serial numbers to returned assemblies with this transaction.

## 11.4.1 Receive Back Completed Assemblies Shortage Warning

VFP - C:\V870 (User Stockroom - Receive b	ack completed assemblies
In this example 10 wheels were on the sales order. Each wheel consists of 1 bearing and 40 spokes. When the Stockroom issued the sales order, only 5 of 10 bearings were issued. Later, 1 nut per wheel assy was added to the BOM. After that 10 nuts were issued using an L Type Transaction, but only 4 were in stock.	If a shortage exists when trying to receive back a sales or work order, the following window will be displayed. You can elect to receive back the full amount or the partial amount that pc/MRP has determined could be received back based on its shortage records. This will display shortages due to the
IShortage Warning For Sales/Work Ord	BOM being changed after the sales or
This report would show that 5 bearings and 6 nuts are short (does not receive back the assys). Ouantity Requested to Receive Ouantity that can be Receive	ve back from MFG: 6 d back from MFG based
the material issued to the Allow return when short", pc/MRP will only allow you to receive back the qty based on shortages. If set to "Allow" you can receive C Receive back 4 from MFG	d parts t prevent receiving back the requested qty Dates.
back all assys. pc/MRP will decr stkroom qty req to = 	Selecting to receive back the full amount will decrease the quantity required fields to match the quantity issued fields.
If you are receiving back a partial qty of assys, pc/MRP will back flush a partial qty of parts issued to that sales or work order.	C:\V870\PARTSPREVENTRECEIVEBACK.TXT - Not
With pc/MRP Versions 8.63A and higher Option 61 can be set to perform cost roll ups whenever a sales or work order is received back from mfg. Partial return cost will be based on parts in BOMs. Final return cost will include the extra parts issued.	A C C C C C C C C C C C C C C C C C C C

When selecting "View stockroom shortages for issued parts", the report's name is SHRTAGEFORSONO.FRX. You would get the exact same information by selecting Stockroom, reports, all for a SO/WO (select the SO/WO), Make-up shortages issued to MFG only.

Receive Back from Manufacturing compares the parts issued to the sales or work order to the BOM based on how it was structured on the first date the sales or work order to manufacturing and the effectivity dates (Versions 9.36 and Higher) of the parts in the BOM to look for shortages. DateIssue C(10)



# 11.5 Other Types of Stockroom Transactions

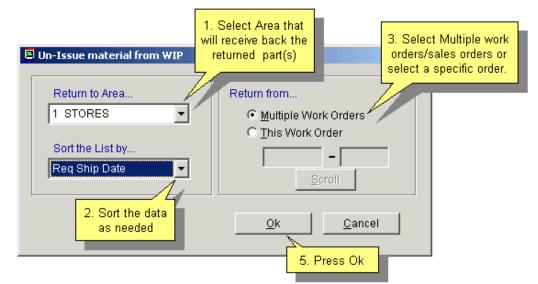
#### 11.5.1 U - Receive Unused Returned Parts from Manufacturing

Check out the online slideshow for this transaction selection here: <u>http://www.pcmrp.com/mrp101/stockroomunissueselectu.htm</u>

If the SO/WO has been received back from Manufacturing you will get a warning, but you will still be able to receive back unused parts.

pc/MRP for Wind Modules Tools Opti	Receiving back unused parts from manufacturing	
		I
Select	stock transaction process	
	<ul> <li>issue parts only for an assy(s) infin         <ul> <li>issue additional parts not listed in manufacturing, select Modules,</li> <li>issue individual Makeup or shortages</li> <li>issue multiple make-up shortages</li> <li>issue multiple make-up shortages</li> <li>issue multiple make-up shortages</li> <li>issue parts or assemblies to Shipp</li> <li>eas</li> <li>Receive completed assemblies for mfg and Back Flush consumed component provide the parts from mfg (neg issue)</li> <li>receive parts from ReceiVing</li> <li>Adjust inventory onhand qtys</li> <li>reTurn all parts/assys issued to a sales/work order</li> </ul> </li> </ul>	
	<u>QK</u> <u>Cancel</u> pc/MRP will create adjus leaving an audit trail fo	
	With Versions 8,95C an receive back unused part the sales/work order was mfg. Prior versions wou	s from mfg even if received back from

This option allows users to return unused parts back into inventory. When users select this option, the screen shown below will appear.



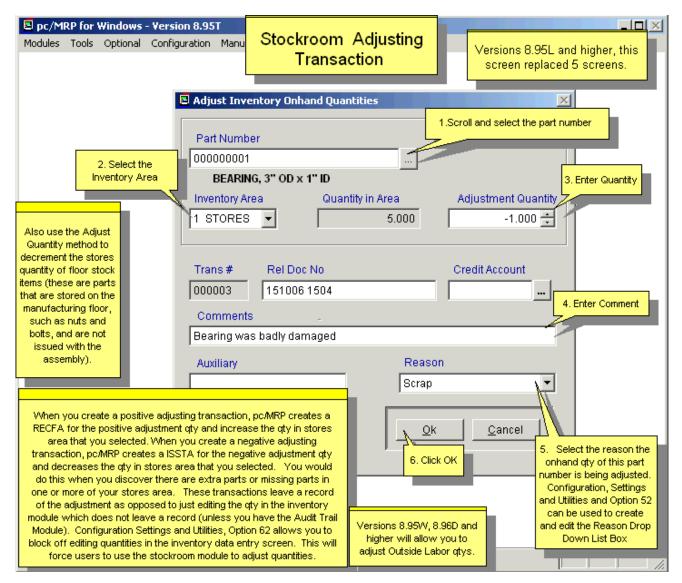
Modules Tools	1. High numbers return to f	- Version 8.54M light the part s you wish to the stockroom	د	2. Enter the qua you wish to retu the stockroo	urn to	3. To carry a shortage, select Reduce Issued Qty Only. To not carry a shortage, select Reduce Required and Issued.
	ык Tran #		Description	WIP Qty	,	Reduce Req Ship
	000001	000000001	BEARING 3.000D ×	10.000		Required & Issued Qtys 01/13/20
0001	000002	000000002	SPOKE	400.000	0.000	Issued Qty Only 01/13/20
						Note: If there is a serial lot number for the part, pc/MRP creates a neg qty S
						Detail Record and decrements the
						SnLot Master Record.
	un-is L Cenera	te an Un-Issue L Seperate by Work		ngle6 order6		This grid will not list parts whose qtys issued = 0. For those parts you should edit the stockroom record and reduce the qty required. Selecting Stockroom Reports, all for a Sales/Work Order Number, Make up shortages only will include parts where qty issued = 0.
	Un-Iss	ue All Items				OK Cancel 6. Press OK
Stktmp (c:\docum	receive the "Req	ed back a partia e remaining com juired and Issue assemblies for t	I qty of the finish ponents in WIP d", press the "Ur he sales/work or	ed assemblies back into the s n-Issue All" but der, edit the sa	for a sales/w stockroom, lea ton and hit Oł ales/work orde	nto the Un-Issue Qtys. If you have ork order number and wish to return ave the "Reduce" Column set to <. If you do not want to build any er and reduce the sales order qty to " in the Complete field.

- Highlight the part that you wish to return and enter the quantity in the **Un-issue Qty field**.
- Continue this process until all of the items to be returned have been selected.
- Users can select to reduce Required and Issued Qtys or to reduce the Issued Qty Only. Use Required & Issued Qtys if you do not need to carry a shortage (BOM was wrong). Use "Issued Qty Only" if you want to carry a shortage e.g. removing from one job to supply another, or if you over-issued such as issuing a full reel, or if you over-issued to make up for defective parts.
- Users can also select to have the Un-issue option generate a report. This report can be sent to several output types.
- If the Serial/Lot Number Module is being utilized, once the item(s) has been selected and the user clicks OK, the user will be prompted to track serial numbers as needed.

Example: 5 items were issued by the initial I-type transaction number. Trx#: 000240 Required: 5 Issued: 5 Returned: 0

We unissued 1 item by entering a U type transaction. pc/MRP will change the original transaction: Trx#: 000240 Required: 5 Issued: 5 Returned: 1 The new U-type transaction is entered as follows: Trx#: 000241 Required: -1 Issued: -1 Returned: -1 Comment: Un-issued Qty 1 If the user selected to reduce Issued Qty Only, i.e. to carry the shortage, pc/MRP will also create Returned: 0 Comment: Shortage Qty created by an Trx#: 000241 Required: 1 Issued: 0

# 11.5.2 A - Adjust Onhand Quantities



This option allows the onhand quantity of parts to be adjusted (increased or decreased). It leaves a record of the adjustment; while simply editing the part number qty on the inventory screen, would not leave any records (unless the optional Audit Trail Module is activated). Increasing the onhand quantity in stores or in another area creates RECFA stock transaction record(s). Decreasing the onhand quantity in stores or in another area creates ISSTA stock transaction record(s). If you are utilizing the Serial Lot Number Module, this transaction will also automatically adjust quantities in the Serial Lot Number database.

The **Auxiliary** field is a 20-character field for your use and can be reported on as "All for an AUX value".

Also use the Adjust Onhand Quantities method to decrement the onhand quantity of floor stock items. These are parts that are stored on the manufacturing floor, such as nuts and bolts, and are not issued with the other parts and material.

Also use the Adjust Onhand Quantities method to decrement the onhand quantity of non-inventory items such as paper towels and envelopes.

# 11.5.3 T - Return all Parts/Assemblies Issued to a Sales/Work Order

Modules Tools Optional C       Stockroom T Option         Image: Stock transaction process       an "All stockroom records for a before you run the T Option. We do not check auto issue so you original issue based on the         Select stock transaction process       all of the finished assemblies back from mfg (See restrictions below). The T Option even if you ha all of the finished assemblies back from mfg (See restrictions below). The T Option original area qty will be increased by the Qty Issued. The Qty in WIP will be reset to 0. The stockroom records will show assemblies of the finished assemblies will be decreased and the RECFM record will be	sales/work order" hen you re-issue, can duplicate the above report. ve received some or ion will return ALL iginal area. The duced by the Qty ield will be reset to ow Qty Issued = 0, he original area qty
C R - Recefve	
C ⊻ - receive to a sales/work order C ⊻ - recurs all parts/assys issued to a sales/work order T - reTurn	
<u>Q</u> K <u>Cancel</u> 2. The T Option will NOT allow a return the sales order's Complete = Y OR Qty complete). Work Orders will be allowe it is not restricted by restriction 1.	/Ship > 0 (partially
Versions 8.45 and lower do not allow users to use the T Option if any assys h	ad been received
back from mfg. Versions 8.81D thru 8.82K issue the parts from the selected issuing area but d issuing area. So, the T Option will return parts/assys to the main Stores Area. 8.82L or higher and it will then return all future issues to their original issuing ar	Upgrade to Version
VFP - C:\V895 (User: DDUG) Modules Tools Optional Configuration Stockroom T Option Screen	X
Confirmation Required	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.	
You have elected to perform a "T" type stock transaction.	_
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process. SOWO Order # 000101-0001 Part Number 00000010 Description WHEEL ASSY	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process. SOWO Order # 000101-0001 Part Number 00000010	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process. SOWO Order # 000101-0001 Part Number 000000010 Description WHEEL ASSY Order Qty 2.000	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       000000010         Description       WHEEL ASSY         Order Qty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1)       Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.	f finished assys were
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       000000010         Description       WHEEL ASSY         Order Qty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1)       Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.	
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       00000010         Description       WHEEL ASSY         Order Qty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1) Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.	f finished assys were rom manufacturing.
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       00000010         Description       WHEEL ASSY         Order Gty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1)       Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.         2)       Alter the SOWO to indicate that it is NOT issed to WIP.         3)       Remove the returned finished assemblies from Inventory and return the corresponding	f finished assys were rom manufacturing.
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       00000010         Description       WHEEL ASSY         Order Qty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1) Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.         2) Alter the SOWO to indicate that it is NOT issed to WIP.         3) Remove the returned finished assemblies from Inventory and return the corresponding component material to the Inventory area from which it was originally issued.	f finished assys were rom manufacturing.
You have elected to perform a "T" type stock transaction. User confirmation is required for use of this process.         SOWO Order #       000101-0001         Part Number       000000010         Description       WHEEL ASSY         Order Qty       2.000         Built Qty       2.000         These are the (3) actions that will be performed by this process         1) Remove all issued component material from WIP and return it to the Inventory area from which it was originally issued.         2) Alter the SOWO to indicate that it is NOT issed to WIP.         3) Remove the returned finished assemblies from Inventory and return the corresponding component material to the Inventory area from which it was originally issued.         Please verify that you understand and approve of the actions	f finished assys were rom manufacturing.

This option allows users to un-issue sales or work orders from manufacturing. This option subtracts the quantity issued into WIP for each part and or subassembly to a specific sales or work order and increments inventory in the issuing area. The QTYISSUED, QTYREQ and Qty Assembled are also set to 0.

The T type transaction will only work for Sales Orders if the SO is not complete and the shipped quantity is 0. It will work for all Work Orders regardless of the value of these fields.

You could use this transaction if the SO/WO was issued in error, or if the customer changed their mind, or if the BOM was wrong and must be corrected before it can be issued again. You can think of the T type transaction as the "Oops-option". However, if you are using this option to reverse an erroneous R type transaction, and are planning to repeat the original I type transaction right after the T: make sure you run a Make-up shortages Issued to MFG Only report first, to see what needs to be issued and what needs to be left short. Then enter the I type issue with Issue Parts Automatically unchecked, so that you can enter the exact quantities you need to issue, regardless of the current onhand quantities.

# 11.5.4 V - Receive Parts from Receiving

Do not use this transaction if you are set to Inventory Adjustment method A, see Settings and Utilities, Option 4.

Enter a "V" to receive parts from receiving. pc/MRP will display the next available stock transaction number. Press OK to accept the number. If there is a receiver for this transaction, enter Yes, and enter the receiver number. pc/MRP will ask if you wish to track Lot Numbers. pc/MRP will display and receive each line item from the receiver. The onhand quantity of each part received will be increased provided pc/MRP is configured to do so in the configuration menu.

# 11.6 Edit/View/Delete/Undelete

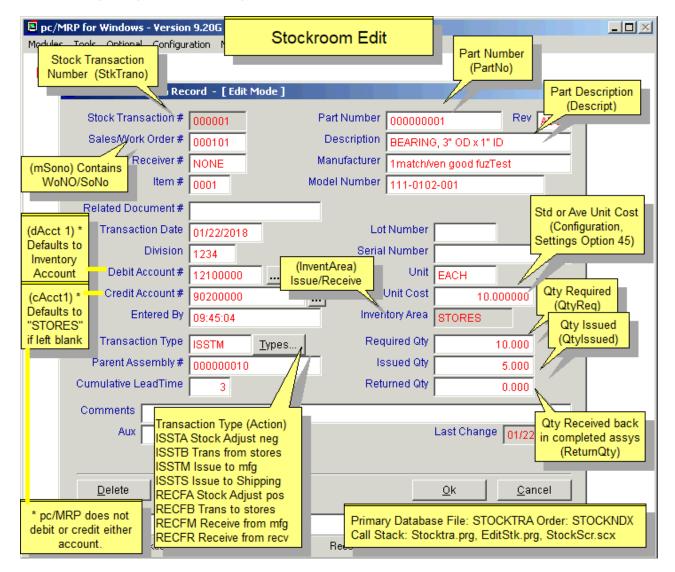
Selecting an **Indexed Search** allows users to find the information fast. To perform an Indexed Search select the Indexed Search tab, desired Sort Order, Document Number, Sales and Work order Number, Part Number or Model Number. Enter the applicable data in the Begin Scrolling At: field. Select the desired Action, View or Edit. Press Search. pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press Ok to proceed to the edit screen for that record.

A Queried Search is slower, but gives the user more flexibility. See Chapter 15.14.

Every field in the Stockroom table is editable. Users however need to understand several key concepts before editing stockroom records.

- There are three key fields in most stockroom transaction, required qty, issued qty, and returned qty. The required qty is the quantity required for this transaction. Issued qty is the quantity actually issued for this transaction. If applicable to the transaction there may also be the returned qty, this is the quantity returned or back flushed for this transaction.
- When the issued qty does not equal the required qty, pc/MRP will flag this as a shortage in the stockroom shortage report. To correct a shortage where none exists, the job is already complete and returned from manufacturing; users must research to see what has happened. When performing the R type transaction pc/MRP will not warn users if a shortage still exists. Thus, in some instances, can make inventory be incorrect by not fulfilling makeup shortage transactions before the R type transaction. Users must research to see if the shortage needed to be fulfilled or if the job was completed with the shortage.
- If the shortage needs to be fulfilled, edit the issued qty to equal the required qty and manually deduct the difference from inventory. If the shortage does not need to be fulfilled, edit the required qty to equal the issued qty.
- Use the delete and undelete buttons to mark and unmark records for deletion. To permanently remove the records from the database table, set an administrative lockout,

and then select Stockroom, Remove Marked Records. Removing stockroom transactions will not automatically change inventory. It is not recommended to delete stockroom transactions. If users choose to delete stockroom transactions and they wish to adjust inventory, they must manually accomplish each task.

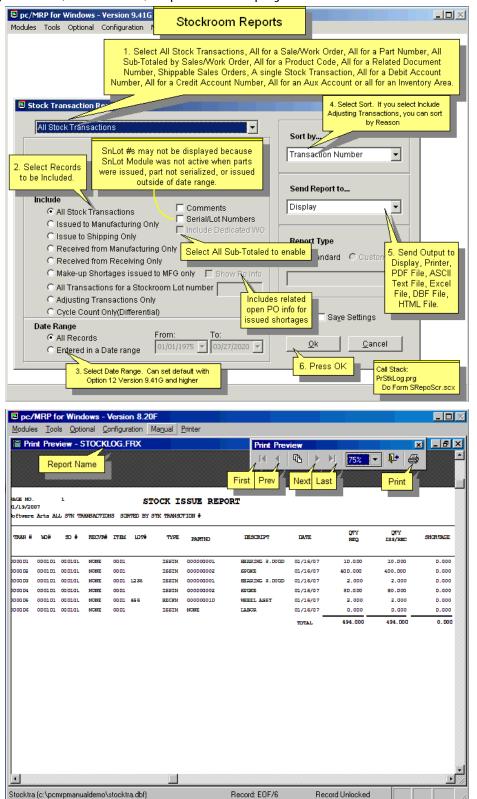


**Note:** In versions below **9.12F** if the user opened a Stockroom record and then clicked Ok without actually changing anything, then the LASTCHANGE field changed to the current date. If the Optional Audit Trail module was activated then the change of the LASTCHANGE field was recorded.

### Scroll Partmaster

This option allows you to scroll or search for a part number. Select scroll if you know the first part of the part number, model number, or description. Select search if you wish to find the part by entering a partial description. For example, entering "elb" would start listing at the first part, such as elbow, that have the letters "elb" at the beginning of their description. A more complete detailed search feature is available in the **Queried Search** feature in Chapter 15.14.1.

Selecting Modules, Stockroom, Reports will display the screen shown below.



If you select All (stockroom transactions) Sub-Totaled by Sales/Work Order, Issued to Manufacturing Only and Include Dedicated Work Orders, pc/MRP will create a special stock issue report (swoincldewolog.frx) containing all the stockroom issues during the specified time period subtotaled by sales and work orders.

If the work order was dedicated to a sales order, it will appear under the parent sales order, provided they both were issued during the specified time period.

If a sub assembly was issued to the parent sales order and the sub assembly came from a dedicated work order that was issued during the specified time period, the sub-assembly cost under the sales order will be faded out and not included on the grand total for the sales and work orders.

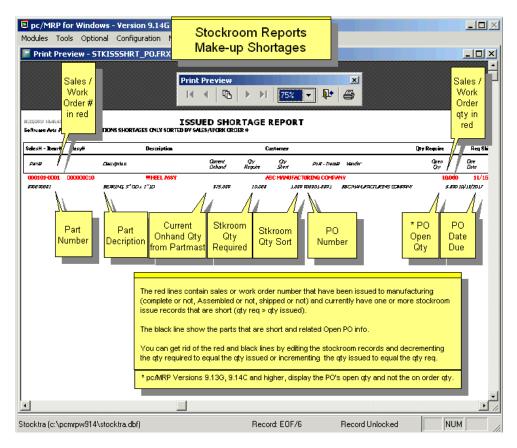
If the dedicated work order was not issued during the specified time period the sub-assembly cost will not be faded out and will be included on the grand total for each sales order and its work orders. Version 8.20D faded out the sub- assembly cost and did not include it in the grand total regardless of the issue date of the dedicated work order.

#### Make-up Shortage Report

Selecting Make-up Shortages issued to MFG and checking the Show PO Info box, pc/MRP will provide shortage amounts along with related open PO Information. The report lists all open PO items with their open qty. **Note:** In versions **9.10K** and lower, the report displayed the full on order quantity instead.

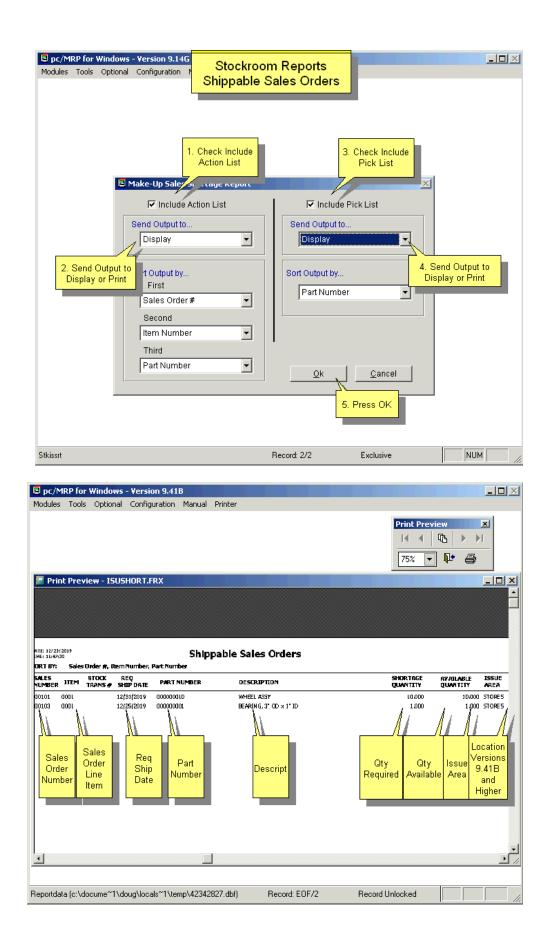
The "Issued Shortage Report" shows for each part the quantity that is short for the SO/WO, and the current onhand (Stores only) quantity, that could be used to fill this shortage.

	oom Reports .ıp Shortages		<u>-                                    </u>
Stock Transaction Reports			
All for a Sales / Work Order SO/WO # Item 000101 0001	Scroll	Sort by Sales / Work Order Number 💌	
C Issued to Manufacturing Only	K	Send Report to Display  Report Type  Standard  Custom	
O All Records C Entered in a Date range O Entered in a Date range O Entered in a Date range O Entered in a Date range	Shortages. (9.10F)	Qk <u>C</u> ancel	



#### Shippable Sales Orders Report

C/MRP for Windows - Version 9.14G Modules Tools Optional Configuration     Shippable Sales Order     Stock Transaction Reports	S The Shippable Sales Order Report now include a Location Column with Versions 9.41B and higher.
Shippable Sales Orders	Sort by  Send Report to  Display
7 QC HOLD       2. Select valid areas containing shippaple items.         9 STAGING       3. Shippaple items.         10 SCRAP       11 RESERVED         12 Area-12       13 Area-13         14 Area-14       15 Area-15         16 Area 15       16 Area-15	Report Type Standard C Custom Save Settings
□ 16 Area-16 ▼	<u>Qk</u> <u>Cancel</u> 3. Press OK



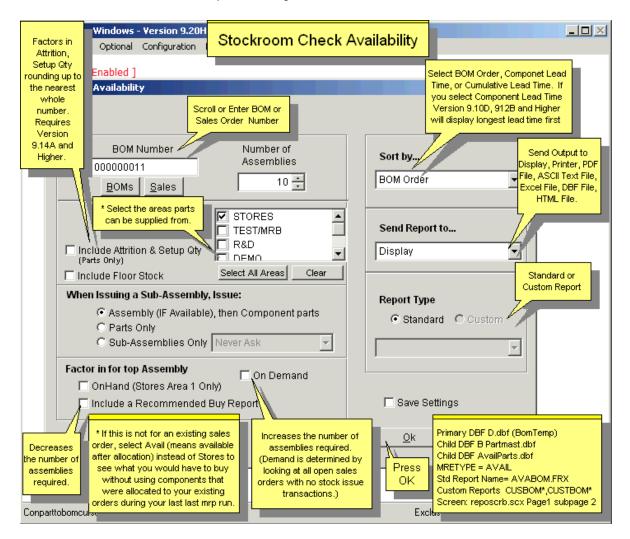
## 11.8 Check Availability (of parts for a specified assembly)

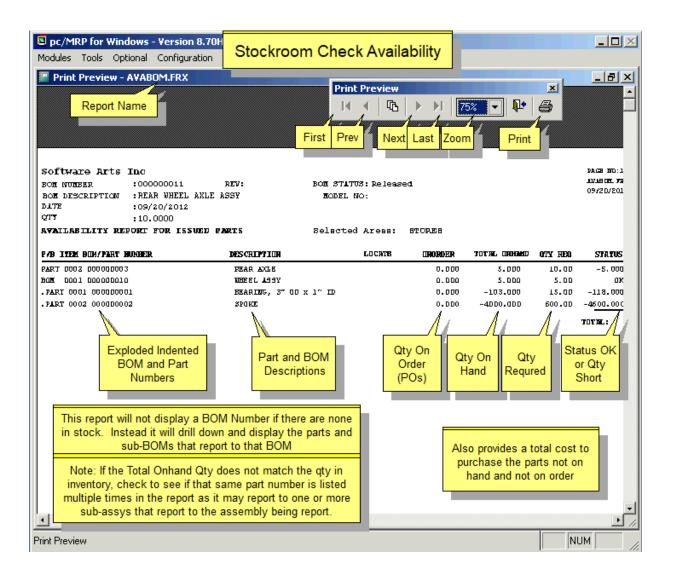
Will print out the status (quantity on hand, quantity on order, and quantity required) for each part number in a specified assembly. pc/MRP will ask for the BOM number and the quantity required. You also have a choice of a single stores area, All Areas, Qty Available, and Avail-OnOrder. If this is not for an existing sales order, select Qty Available instead of Stores to see what you would have to buy without using components that were allocated to your existing orders during your last MRP run (only if the IB-MRP module is activated). Next, select 'Parts Only' to check for parts infinite levels deep or 'Sub-Assemblies Only' for parts to one level deep. If any part is short, the report will list it as "SHORT". This report is not as thorough as the Consolidation Report in Purchasing (See Section 7.6.3.2 Consolidated Single Bucket MRP Report) as it only looks at what is currently on hand in the selected stores area. A narrow carriage print out will include a purchasing history of parts that are short. A wide carriage printout will include reference designators.

If you select Print and Parts Only, the Check Availability report will include PO Status for each part number that is short.

If you check Factor in 'On Demand' for the Check Availability report, it may not agree with the 'On-Demand' qty found in the inventory screen because the report's on-demand qty subtracts the qty issued while the screen's' On Demand' does not.

To see how long it would take to build an assembly, sort by Cumulative Lead Time. This report will use your current onhand quantities to calculate what is available and what needs to be ordered, and consider how long each step of the assembly takes. The longest lead time will show the cumulative lead time of the top assembly.



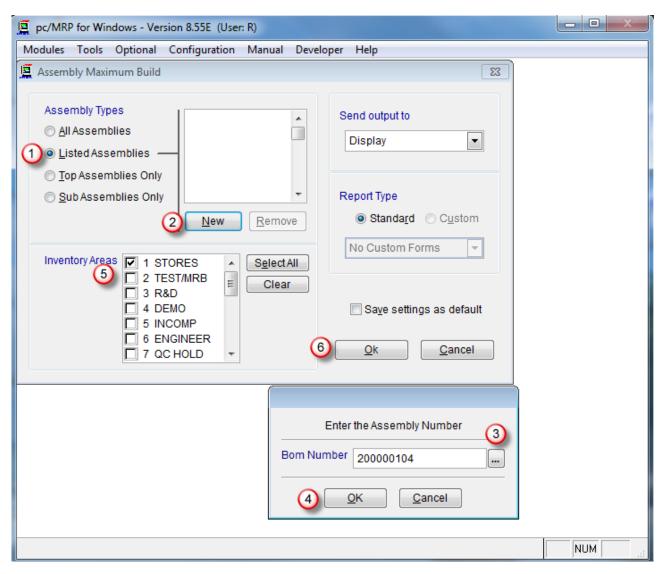


### 11.9 Maximum Potential BOM Build

The Stockroom module allows one to see how many of:

All Assemblies Listed Assemblies Top Assemblies only Sub-Assemblies only

can be built from the onhand qty in certain inventory areas.



After selecting 'Maximum Potential Build',

- 1. Select Assembly Types
- 2. Press New
- 3. Select the Assembly Number
- 4. press OK
- 5. Select Inventory Areas to include for getting the parts to build the assemblies
- 6. Press OK to see the report as shown below

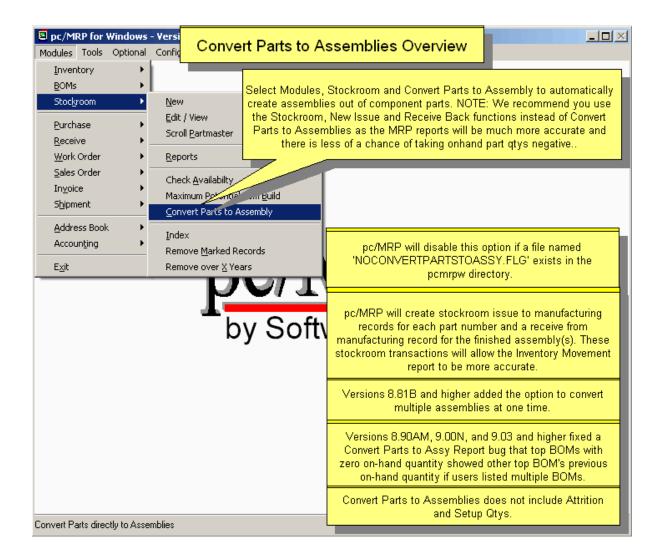
🚊 pc/MR	P for Win	dows - Ver	sion 8.55E (Use	r: R)						- 0	x
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Tre	xx Bi	cycles							PAGE NO:1		
DATE	:03/10/	2011							BOMBUILD. FRX		
	Max	kimum p	otential n	number				t for Listed As	ssemblies		
II					Areas I	nclu	ded: Onhand				
BO	NUMBE	R	DESCRIP	TION			DIVISION	QUANTITY IN INVENTORY		IMUM DQTY	
2000	000104		Brake A	ssembly	Rear Kit			0.000	0 (	0.0000	
•											-
Bomlist						rd: EOF	/1 Exclusive		I	NUM	
Bomiist					Hecc	ira: EUF	EXCIUSIVE	3		NUM	

### **11.10 Convert Parts to Assemblies**

This option provides a shortcut method that automatically converts parts into assemblies. This routine bypasses putting parts into WIP and using a work order number to record the transactions. pc/MRP will disable this option if a file named '**NOCONVERTPARTSTOASSY.FLG**' exists in the PCMRPW directory. If you send the report to the printer, you will receive a printed record of the transaction that can double as a PICK list.

<u>We recommend</u> using the Stockroom's "I" and "R" – type transactions <u>instead of</u> "**Converting parts to assemblies**" because in the latter case:

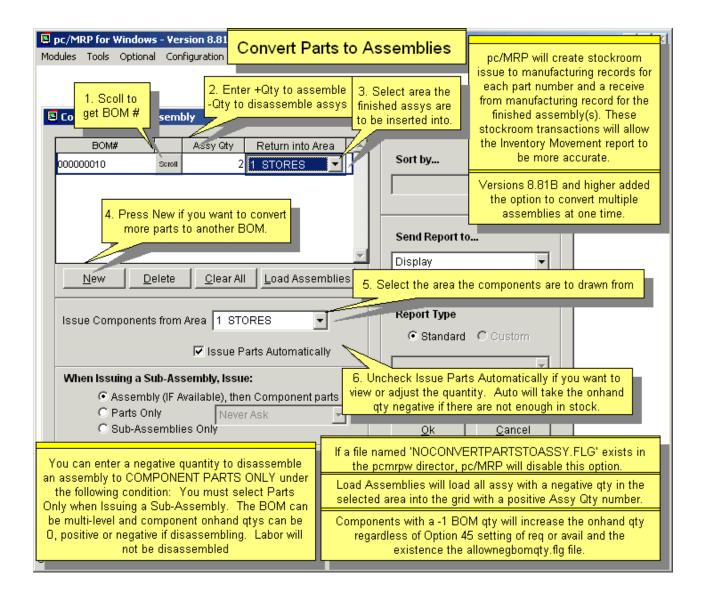
- There is no traceability to the actual sales order and invoice especially for serial/lot numbers.
- There is no ability to trace and fill shortages on the manufacturing floor.
- Converting parts to assemblies can take onhand quantities to negative.
- The MRP and Inventory Movement Reports may reflect onhand qtys of finished goods that are not yet completed.



pc/MRP will create stockroom issue to manufacturing records for each part number and a receive from manufacturing record for the finished assembly(s). These stockroom transactions will allow the Inventory Movement Report to be more accurate.

If any of the component parts are short and you check **Issue Parts Automatically**, pc/MRP will drive the quantity of part numbers with shortages negative. This helps to keep track of shortages, but generally it is not recommended to drive onhand quantities negative.

If any of the component parts are short and you un-check Issue Parts Automatically, pc/MRP will allow you to select the quantity you wish to issue. This is not a good option because there is no mechanism to automatically fill shortages when the parts do come in.



Modules	Tools t Previe softwar	Optional <b>ew - CNVI</b> re Arts I	l Config BOMFOR Dac.	on 8.81B uration Man MULBOM.FR	x	Conve Asso	emblie	es	1105			1 1 10000100.70. 102001100.70.	-OX
			DEL DES			<b>971</b>		30371	BUE STATUS:	1000	NEL NOI		
		rya 2000 non	/1011 12/100		11 ale 10 al 1940	107					557 (1996)	27212 THA 927 JIS 600	
	COLOCE Updating Free Dad New Option	saar door oo seer aloon oo room aloon oo room operating wat ger : 7 New Qit Hand o Assen	s and y or ot out y on f the nby	SST DOUDLO in Aroa : DU Zoom	37000 1 5100005	X.000 S' Ø + I' D		com pc/ Cnv parts Both	omForMull vert parts t MRP Vers Bom.frx is s to asser Versions reports us ary dbf an	ty ued Bom.frx i: to assem ions 8.81 the stan ably repor 8.80 and 8.80 and	bly repo and hig dard co t for pc/ l lower. mp.dbf	nt for gher. nvert /MRP as the	
D (c:\doo	:ume~1\	doug\loca	als~1\tem	p\58309680.a	lbf)		Record: B	OF/2	E>	clusive			

**Note:** Earlier versions **9.00M** and below, showed the wrong on hand qtys for top assemblies in specific cases, when converting multiple BOMs. Please upgrade.

# Convert Parts to Assemblies with a Negative Quantity

Not recommended for the same reasons outlined above. However, if you must, please see the note on the slide on the previous page. (Remember, you MUST select 'Parts Only'.)

## 11.11 Special Cases

## 11.11.1 Special Cases - Issuing Reels

Reels containing thousands of electronic components that must be issued to an assembly vendor or the manufacturing floor present a special issuing and tracking problem, as you must issue more than the quantity required to the machine picking off the required number of components. This can be resolved in one of the following ways:

- (Easiest but less Accurate) Let pc/MRP issue the required amount but physically issue the reel. Consider the reel as part of the stockroom stock even though the reel(s) are on the manufacturing floor. If extra parts were issued from the reel, enter an "L" type stockroom transaction to cover the extra quantity issued. This method has the advantage that components on the same reel can be issued to different sales/work orders. The IB-MRP will not tell you to buy components if the excess components on the floor are in sufficient quantity.
- (Easy but less Accurate) Let pc/MRP issue the required amount (automatically or manually). Once you are finished with your "I" type issue for that sales/work order number, enter an "L" type stockroom transaction and issue the remaining quantity on the reel. Before the sales/work order is returned from manufacturing as finished assemblies to the stockroom along with the reels, enter the quantity remaining on the reels using the stockroom's "U" type transaction. Select "Reduce Required and Issued Otys". Once you have returned all the reel quantities, you can return the sales/work order as completed assemblies using the stockroom's "R" type transaction.
- (Easy but less Accurate) Let pc/MRP issue the full reel by un-checking the "Issue Parts Automatically" checkbox and entering the full quantity on the reel. When you do the "U" type stockroom transaction to return the unused quantity, select "Reduce the Issued Quantity Only". This method has the disadvantage of not allowing the reel to be available to other sales/work orders until the reel is returned with the transaction.
- (More Complicated but Accurate) Rename an unused Inventory Area to "WIP Exc" (WIP Excess) or similar. This area will hold components that are physically on the Floor, but won't be used by the SO/WO they were issued to. At the time of the initial "I" type transaction only issue the required quantity, and immediately after that enter a "B" type transaction moving the rest of the components from the original stockroom area to WIP Exc. When generating an MRP, make sure the WIP Exc area is checked. This method is very accurate as it doesn't show the components being on the shelves (they are not, they are on the floor!), neither does it show them as on the floor for the first SO/WO (they won't be used by this SO/WO!) but has them available for another SO/WO. The IB-MRP will not over-order.

# 11.11.2 Special Cases - Handling Scrap Parts

You have used the Stockroom's 'I' Transaction Type to issue all the parts for 100 bicycles for a sale or work order. Part of the issue included 200 inner tubes. Two of the inner tubes are defective.

Use the Stockroom's 'L' Transaction Type to issue two more inner tubes to the sales or work order. OR

Use the Stockroom's 'U' Transaction Type to return the two defective inner tubes to an area designated as scrap. Select 'Reduce the Quantity Issued' but not the 'Quantity Required'. Use the Stockroom's 'P' Transaction Type to issue two more inner tubes when they become available.

Once the bicycles are built, use the Stockroom's 'R' Transaction Type to receive back the completed bicycles.

Please note that pc/MRP's Serial/Lot Number module will record the serial numbers for 'I', 'R', 'A', 'U', and 'L' stockroom transactions.

## 11.11.3 Special Cases - Reporting Inventory Scrap transactions

### OPTION 1:

Stockroom 'B' transactions allow transfer of parts from one stores area to another stores area. Transferring from Stores area 1 to another area only creates an 'ISSTB' stockroom transaction, whereas transferring from say R&D stores area to 'Scrap' stores area will create both an 'ISSTB' and a 'RECFB' record.

Now, if you wish to track all transactions affecting the 'Scrap' stores area, you could enter the word 'Scrap' in the 'Rel Doc No' data field in the Stockroom 'B' type transaction and then run the Stockroom, 'All for a Related Document Number', and enter 'Scrap' in the 'Related Document #' data field. Select 'Partial' for the 'Match Type' (this means Starts With...), and then select for Include, 'All Stock Transactions'. For just a partnumber of group of product codes, append the partnumber product code to the word 'Scrap' when entering into the 'Rel Doc No' data field of the stockroom transaction and the report's 'All for a Related Document Number' data field.

Other Stockroom transaction types will require you to edit the transaction after entry so you can enter the 'Rel Doc No' data.

#### OPTION 2:

If you know there is always a certain percentage of un-usable parts in a batch of parts used to build an assembly, include the percentage in the BOM required quantity for the part (if the part is not in a liquid form, round up to the next whole number).

#### As an example:

The capacitors used in the assembly have a known failure rate of 10%. Therefore, adjust the quantity required in the assembly to 110% (if the part is not in a liquid form, round up to the next whole number). This will allow the purchasing department to automatically order the optimum part quantity and the stockroom issue transaction have the optimum quantity available of the part to complete the assembly(s).

If you need to use more capacitors because in a particular case the un-usable parts exceeded the 10%, use the stockroom "L" type transaction to issue more capacitors to the build.

If you did not use all the "extra 10%" of the capacitors in the build, use the stockroom "U" transaction to "Return unused parts from manufacturing to stock". You need to do this before the "R" type transaction.

You can also use the "U" transaction to return the scrapped parts to the Scrap stores area as in Option 1 above.

### 11.11.4 Special Cases - Handling Finished Assembly Yields

You have used the Stockroom's 'I' Transaction Type to issue all the parts for 200 circuit boards for a sales or work order. Use the Stockroom's 'R' Transaction Type to receive back the 200 completed circuit boards into a stores area. Inspection rejects five of the finished circuit boards 'A' (This must occur after the Stockroom's 'R' Transaction Type).

Use the Stockroom's 'B' Transaction Type to move the 5 finished/rejected Circuit Boards from a stores area to a scrap area. At the end of the financial period, print out an inventory value report for the scrap area (cuspar01-11). Make an accounting adjusting entry for the value of the scrap, credit Inventory asset and debit a COG type account. Use the Stockroom's 'A' Transaction Type to decrement the quantity in the scrap area by 5.

Please note that pc/MRP's Inspection Module provides a record of the inspection, and the quantity rejected but does not adjust any on hand quantities.

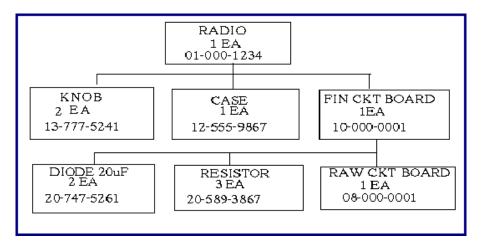
Accounting should be notified of any 'A' type adjustments to inventory so they can adjust their inventory asset and COG account values.

- 11.12 Queried Search Overview (see 15.14.1)
- 11.13 Indexed Searches (see 15.14.2)
- 11.14 Index (see 15.14.3)
- 11.15 Remove Marked Records (see 15.14.4)
- 11.16 Remove Over X Years (see 15.14.5)

# 12 Bill of Materials Module

#### 12.1 Bill of Materials Overview

A Bill of Materials or BOM, can be described as a list of items required to produce a finished assembly or sub-assembly. For example, a Bill of Materials for a circuit board might consist of resistors, diodes, and the raw circuit board itself. The finished board could in turn be a sub-assembly for a finished product such as the radio BOM shown below. An on-line slideshow is located here: <u>http://www.pcmrp.com/mrp101/bommodulesnew.htm</u>



A Bill of Materials could be called a recipe, formula, cut list, etc. pc/MRP can accept BOMs infinite levels deep. When entering a BOM, you must enter the lowest levels first as pc/MRP is always checking if the part or sub-assembly exists. In the above example, you would first enter the diode, resistor, and raw board into the part master as parts. Then you would enter the finished circuit board bill of materials listing all of the parts that go into a finished circuit board. Next the knob and the case. Finally you could enter the radio bill of materials.

pc/MRP uses the BOM files to provide PICK Lists, Where-Used Reports, Purchasing Consolidation Reports, Assembly Costs, and to correctly issue and track inventory.

BOMs are not limited to manufacturers, for example, restaurants can correctly track inventory by entering their recipes into pc/MRP's BOM file.

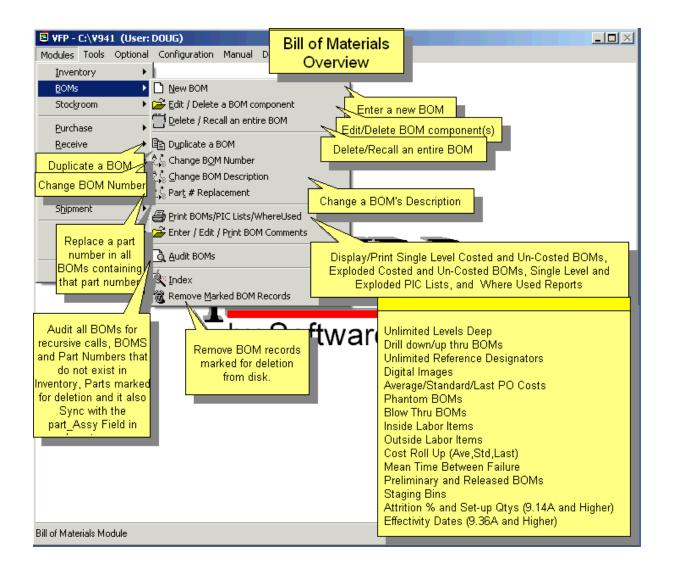
**Note:** If the Optional Password Module has been activated, users will have to have the same (or higher) rights to the Inventory module as they have to the BOM module.

A single level printout of an example BOM is shown below:

KINAMED BOM NUMBER	: 00000012	REV :	
	ON: REAR END ASSEMBLY		
DATE	: 12/29/97		
OTY	: 1.0000		
	GLE LEVEL BOM REPO	RT MRNUFACTURER MDDELNO	QTY/RS
UNCOSTED SIN	GLE LEVEL BOM REPO		<b>QTY/A</b> :

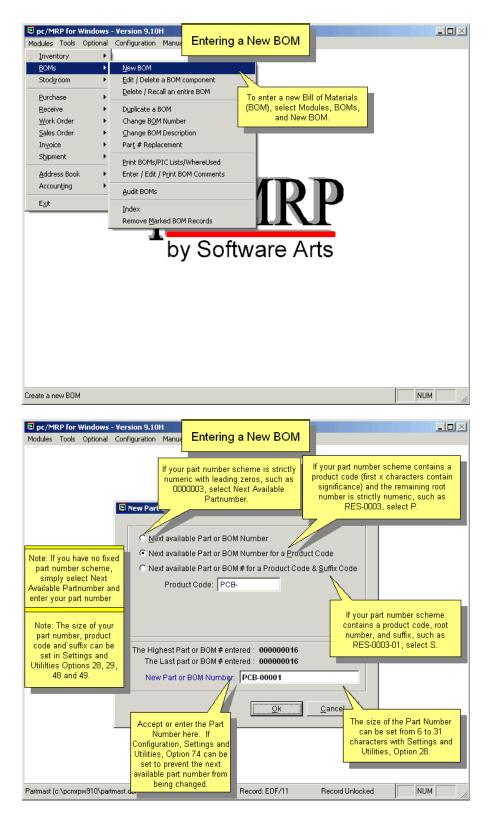
An exploded printout includes sub BOM parts and their respective quantities. pc/MRP uses a technique called indenting to help illustrate how the sub assemblies fit together with other sub assemblies to create the final assembly. The same example BOM in an exploded printout is illustrated below:

KINAMED		
BOM NUMBER	: 00000012 REV	:
BOM DESCRIPTIO	DN: REAR END ASSEMBLY MOD	ELNO:
DATE	: 12/29/97	
	4 0000	
QTY UNCOSTED EXPI P/B ITEM BOM/PART	: 1.0000 LODED LEVEL BOM REPORT NUMBER DESCRIPTION	LOCRTE
UNCOSTED EXPI	LODED LEVEL BOM REPORT NUMBER DESCRIPTION	LOCRTE
UNCOSTED EXPI	LODED LEVEL BOM REPORT NUMBER DESCRIPTION 4 REAR TRANSAXLE	TSTPP
UNCOSTED EXPI P/B ITEM BOM/PART PART 002 00000000	NUMBER     DESCRIPTION       4     REAR TRANSAXLE       0     WHEEL ASSEMBLY123456789012345678	TSTPP 90
UNCOSTED EXP1 <b>P/B ITEM BOM/PART</b> PART 002 00000000 BOM 001 00000001	NUMBER     DESCRIPTION       4     REAR TRANSAXLE       0     WHEEL ASSEMBLY123456789012345678       01     BearING 3" ID 5" OD STAINLESS ST	TSTPP 90



**Note:** See Section 15.11 Importing Data Files in this Manual about importing BOMs from other Applications.

Select Modules, BOM, and New, to enter a new Bill of Materials into the BOM Database File.



VFP - C:\V832 (User: DOUG) Modules Tools Optional Configuration Manue Entering a	New BOM
Your description should begin with Assy, FG, or WIP to distinguish it as an assembly and not a part. You should choose your wording of the description carefully as good, logical descriptions can improve the usefulness of your alphanumeric part list printouts.	If the new BOM Number already exists in the Inventory Module as a part, pc/MPR will ask "Do you want to convert this part number to an assembly?". If you answer Yees it will allow you to enter the parts into the BOM and reclassify the part as an assy in the Inventory Module. If the new BOM Number already exists in the BOM table, pc/MRP will ask "Do you want to edit this BOM instead?".
Creating a new BOM XI O BOM Number PCB-00001 BOM Description PCB, IO MODULE QK	Enter the new BOM Description           Qancel           Press OK

Enter the new **Bill of Materials Number** (bomno) and **BOM Description** (bomdescri). The wording of the description should be such that it prints out logically on an alphanumeric part list. If pc/MRP finds that the BOM Number already exists in the Inventory table (but not in the BOM table), it will display a message. If you select to use this part number, you will be able to enter BOM records for it, and if the part number in Inventory was type Part, it will be changed to type Assembly.

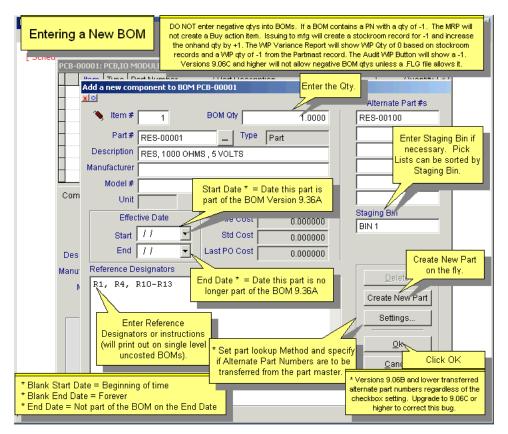
# 12.2.1 Enter a Part or Sub-assembly Number

EVFP - C:\V936 (User: DOUG) Modules Tools Optional Configuration Manua Entering a New BOM	×
Schedular Enabled 1         PCB-00001: PCB, IO MODLE (Add Mode)         Item Type Part Number         Add a new component to BOM PCB-00001         XIS         emate Part #s         Item # 1         BOM Qty         Part #	
Compc Model # F Effective Date Stat 1 / Manufac Mo Reference Designators Stat End Stat End Stat Cost	
wantity per Assembly of the component NUM	

Press the ellipsis (...) button to scroll and lookup the part or assembly number to be inserted into the BOM. You can look up part or assembly numbers by part number, description or model number. If you tried to enter a part/assembly that does not exist, you will have to exit this BOM, enter the part (or build the lower level assembly) first, than add it to this BOM. BOMs must be built from their lowest level up. (Or, see Create New Part below.)

Modules Tools Optional Configuration Manua		<u> </u>
modules roois optional configuration manua	Entering a New BOM	
Schedulor Enabled 1		
PCB-00001: PCB,IO MODULE (Ad	ld Mode)	
Item Type Part Number		antity 📥
item iype i arritamber	Tur Description au	
Add a new component to		
🔟 🗵 🖪 Inventory Databa	ase 1. Select Lookup By F	
Indexe	ed Search (Fastest) Number or Description	
Save Settings	Sort Or <u>d</u> er	
Color Code	Part Number 🚽 🚽 Hide Obsolete Item	ns 💌
M:	2. Enter part of the Part Number or D	Description
Compc Go Top	Begin Scrolling A	
	RES Search	
lt <u>Go B</u> ottom		<b></b>
Part Number	Rev TypeDescription 3. Click on Search	Model 🔺
F 000000015	P RENT INCOME (Inside Lapor)	
Descri 🖉 00000016	L RENT EXPENSE (Outside Labor)	
Manufac 🛛 🔪 000000017	ABCP BEARING 2, 3" OD x 1" ID	111-0'
Ka R CAP-00001	P CAP, 50 uF, 5 VOLDTS	
	P CON, PCB MOD JACKS	
▶ <b>€</b> RES-00001	P RES, 1000 OHMS, 5 VOLTS	
Sta		
Er		<u> </u>
	<u>k</u>	<u>C</u> ancel
	4 Pre	
List of applicable records		VPS
		, , , , , , , , , , , , , , , , , , , ,
pc/MRP for Windows - Version 8.20B		
Modules Tools Optional Configuration Manua	Entering a New BOM	
PCR.0001. DCR. IO MODULE	(A-J-38-L-A)	_
PCB 00001, PCB IO MODULE Add a new component to BC	(Add Mede) DM PCB-00001	
PCB anoni, ccB. to Mobili C	CALLER 4.0 OM PCB-00001 Alternate Part #s	v
	Alternate Part #s	y 👝
1 Item # 1	Alternate Part #s BOM Qty 1.0000	y ^
	Alternate Part #s	y ^
It           Item #           Part #	Alternate Part #s BOM Qty 1.0000 Type A colorate part #s	
It    Item #    Part #      Image: Inventory Database	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description	
It           Item #           Part #	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description	
It Item # 1 Part #	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description	
Item # 1 Part # Part # Indexed Searce Save Settings	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description t Orger Include	
Item # 1 Part # Part # Indexed Searce Save Settings	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description torger Include t Number No Selections	J
	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description t Orger Include	J
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	Alternate Part #s BOM Qty 1.0000  Type  1. Select Lookup By Part Number or Description t Order  1. No Selections 2. Enter part of the Part Number or Description in Scrolling 2. Enter part of the Part Number or Description is Search	J
Co Go <u>Lop</u> Begin Go <u>Lop</u> Begin Co Co Co Co Co Co Co Co Co Co	Alternate Part #s BOM Qty 1.0000 	on la
Co Go Top Co Co Co Co Co Co Co Co Co Co	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description torder 1. Select Lookup By Part Number or Description torder 2. Enter part of the Part Number or Description Search 3. Click on Search Mod	J
Item #       1         Part #       1         Part #       1         Indexed Search       Indexed Search         Save Settings       Sort         Go Iop       Beging         Go Bottom       RES         De       Part Number         Mar       CAP-00001	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description t Orger Include t Number Volder 2. Enter part of the Part Number or Description Search 3. Click on Search Mod P CAP, 50 uF, 5 VOLTS	on del Nur
Item #       1         Part #       1         Part #       1         Indexed Search       Indexed Search         Save Settings       Sort         Go Iop       Begi         Go Eotom       Res         De       Part Number         Rev       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000  Type  1. Select Lookup By Part Number or Description t Number  2. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 uF, 5 VOLTS P CON, PCB MOD JACKS 555	on del Nur ▲ 5052-1
Item #       1         Part #       1         Part #       1         Indexed Search       Indexed Search         Save Settings       Sort         Go Iop       Beging         Go Bottom       RES         De       Part Number         Mar       CAP-00001	Alternate Part #s BOM Qty 1.0000  Type  1. Select Lookup By Part Number or Description t Number  2. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 uF, 5 VOLTS P CON, PCB MOD JACKS 555	on del Nur
It       Item # 1         Part #       Part #         Indexed Search       Indexed Search         Save Settings       Sort         Go Top       Beging         Go Bottom       Rev         Mar       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000  Type 1. Select Lookup By Part Number or Description t Orger Include t Number C. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 UF, 5 VOLTS P CON, PCB MOD JACKS P FINISHED GOODS, IO CHASIS M-0	on del Nur ▲ 5052-1
It       Item # 1         Part #       Part #         Indexed Search       Indexed Search         Save Settings       Sort         Go Top       Beging         Go Bottom       Rev         Mar       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000  Type 1. Select Lookup By Part Number or Description t Orger Include t Number C. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 UF, 5 VOLTS P CON, PCB MOD JACKS P FINISHED GOODS, IO CHASIS M-0	del Nur • 5052-1
It       Item # 1         Part #       Part #         Indexed Search       Indexed Search         Save Settings       Sort         Go Top       Beging         Go Bottom       Rev         Mar       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description t Number Ch (Fastest) Coder Include No Selections 2. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 uF, 5 VOLTS P CON, PCB MOD JACKS P FINISHED GOODS, IO CHASIS P RES, 1000HMS, 5 VOLTS	del Nur A
It       Item # 1         Part #       Part #         Indexed Search       Indexed Search         Save Settings       Sort         Go Top       Beging         Go Bottom       Rev         Mar       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000  Type  1. Select Lookup By Part Number or Description t Orger  1. Selections  2. Enter part of the Part Number or Description in Scrolling 2. Enter part of the Part Number or Description 3. Click on Search P CAP, 50 UF, 5 VOLTS P CON, PCB MOD JACKS P FINISHED GOODS, IO CHASIS M-0	del Nur A
It       Item # 1         Part #       Part #         Indexed Search       Indexed Search         Save Settings       Sort         Go Top       Beging         Go Bottom       Rev         Mar       CAP-00001         CON-00001       A	Alternate Part #s BOM Qty 1.0000 Type 1. Select Lookup By Part Number or Description t Number Ch (Fastest) Coder Include No Selections 2. Enter part of the Part Number or Description SS Search 3. Click on Search P CAP, 50 uF, 5 VOLTS P CON, PCB MOD JACKS P FINISHED GOODS, IO CHASIS P RES, 1000HMS, 5 VOLTS	del Nur A 5052-1 100001
It       Item # 1         Part #       Indexed Search         Indexed Search       Indexed Search         Save Settings       Sort         Co       Go Top         Begi       Go Bottom         Rev       CAP-00001         CoN-00001       A	Alternate Part #s BOM Qty 1.0000 	del Nur A 5052-1 100001

### 12.2.2 Enter Quantity, Reference Designators, Staging Bin Number, Start and Stop Dates



The **Item Number** (Itemno) will automatically increment as additional parts or assemblies are added.

The **Part Type**, **Description**, **Manufacturer**, **Model Number**, **Unit**, and **Costs** are brought over automatically from inventory.

Enter the desired **Quantity** (Qty) of this part or assembly to be added to the BOM.

The **Alternate Part Numbers** (altpart1-altpart6) can be entered manually or automatically brought over from inventory depending on how you have set the alternate part numbers to be entered with the **Settings** button (see 12.2.9). These alternate part numbers are for your reference only. Also see Section 15.9.8.

An infinite number of **Reference Designators** (refdesmemo) can be entered for every part within the BOM.

Enter the **Staging Bin Number** (stagebin) if you desire the parts to be sorted into different manufacturing assemblies. The single/exploded Pick Lists (picbom.frx) can be sorted by staging bin.

The **Create New Part** button will allow you to enter a new part number into inventory on the fly without having to go to the Inventory Module to enter the new part number.

**Start Date** (sdate) = Date this part is part of the BOM. Blank = Beginning of time.

End Date (edate) = Date this part is no longer part of the BOM. Blank = forever.

Press the **Ok** Button to save this entry.

## 12.2.3 Add Another Part to the BOM

cc/MRP for Windows lules <u>T</u> ools <u>O</u> ptional	s - version 8.200 Configuration Ma <u>n</u> ual	
Item Type 1 P	CB,IO MODULE - (Add Mode)         Part Number       Part Description         RES-00001       RES, 1000HMS, 5 VOLTS         has now been to the BOM	Quantity 1
Component Item # Part # Description Manufacturer	Ref. Designators     Miscellaneous       1     BOM Qty     5.0000       RES-00001     Type     Press       RES, 1000HMS, 5 VOLTS     1	Add Item Edit Item s Add to add another or sub-assembly to the BOM To Edit or delete the part number, press Edit.
	R100-5           EA         Ave Cost         0.5000           Standard Cost         0.5000         Sta	Ging Bin N 1 Changes: Save <u>Revert</u> Finished

Once you have pressed the OK button, another part or sub-assembly can be added to the BOM by clicking on the **Add** Button.

In addition you can edit or delete a line item in a BOM by clicking on the **Edit Item** button. If you mark a line item for deletion, the line item will be displayed in red.

The parts and sub-assemblies that make up the BOM will be displayed in a grid as shown above. The grid will contain the following columns. The **Item Number** column contains the BOM item number for that part in the BOM being displayed. The **Type** column represents the type of component it is, P = component Part, A = Assembly, L = Labor. The **Part Number** column contains the part/sub-assembly number that goes into the BOM being displayed. The **Description** and **Quantity** columns are self-explanatory. You can sort the displayed list by clicking on the column heading (Item, Type, etc.) you wish to sort on.

#### 12.2.4 Save BOM

To save your changes to the BOM, press the **Save** Button and continue working. To discard your changes, press the **Revert** button. To save your change and return to pc/MRP's main menu, press the **Finished** button.

Right-click on the **Item** column label to re-sort the item numbers (see below):



### 12.2.5 Reference Designators Tab

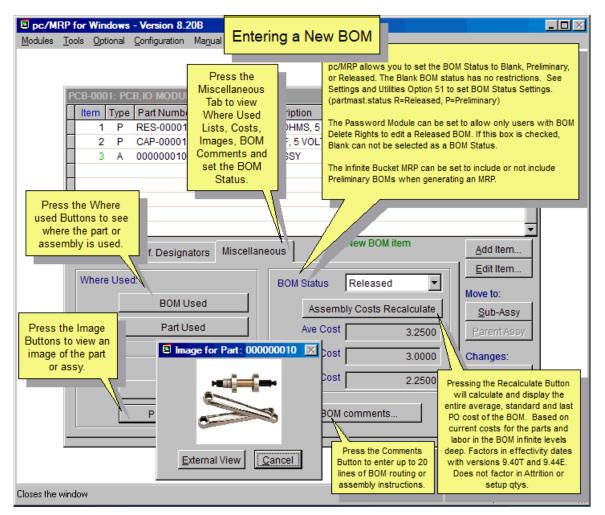
-		- Version 8.2		_ 🗆
dules <u>T</u> ool	ls <u>O</u> ptional	<u>C</u> onfiguration	Ma <u>n</u> ual	
PC		1	E – (Edit Mode)	
H		Part Numbe		
	<u>1 P</u>	RES-00001	RES, 1000HMS, 5 VOLTS 5.0000	
	2 P	CAP-00001		
H			The Ref Designators Tab will display the Reference Designators for the part number	
H			selected. Press the Edit Button to edit	
			the Reference Designators.	
			7	
C	omponent	Ref. Design:	tors Miscellaneous Add Item	
	omponent		Edit Item	
	Part # RES	3-00001	Description RES, 1000HMS, 5 VOLTS	
	J Dofo	rence Design	Move to:	
			Sub-Assy	
	R1	, R4, R10	-R13 Parent Assy	
			Changes:	
			Sa <u>v</u> e	
			<u>R</u> evert	
			Finished	
_				
t of the BOM	d component:	s		CAPS

Clicking on the Reference Designator Tab will display the reference designator page shown above.

The Reference Designator field (Refdesmemo) can have an infinite length and can be printed out on an Uncosted Single Level Bills of Materials Report. It is used by circuit board manufacturers to help assemblers know where to place components on the circuit boards. It can be used by regular manufacturers to list special instructions for assembly, such as, cut 13" long. (Do not use the old, shorter Refdes-Refdes4 fields. These are not used any more; they were left in the program for backwards compatibility.)

**Note:** When importing BOMs (see Chapter 15.11) pc/MRP can import the entire content of the Refdesmemo field. (Earlier versions had a 255 character maximum.)

#### 12.2.6 Miscellaneous Tab



Clicking on the Miscellaneous Tab will display the page shown above.

The **BOM Used** and **Part Used** buttons will display where they are used in other BOMs. The **BOM Image** and **Part Image** buttons will display a picture or document of either, if the picture or document exists in the part's inventory record. This page will display the **Average**, **Standard**, and **Last PO Costs** of the BOM you are modifying.

The behavior of the **BOM Status** (partmast.bomstatus) field depends on whether or not the '**Editing released BOMs requires Delete rights in the BOM module**' box in the Password module is checked.

- If the user does not have the PW module or the box is not checked, the BOM status can be set to Blank, Preliminary, or Released. For newly created BOMs default status is set by Option 51. <u>Note</u>: The Infinite Bucket MRP can be set to include or not include Preliminary BOMs when generating an MRP. (Blank status BOMs will always be included.)
- If the above box is checked, the BOM status can be set only to **Preliminary or Released**. For newly created BOMs default status is set by **Option 51**. Already existing BOMs with a Blank status will remain Blank. Once changed to either Preliminary or Released, the status can not be changed back to Blank. Only users with BOM Delete rights are able to edit Released BOMs.

The Assembly Costs **Recalculate** button recalculates and displays the costs. This calculation goes one level deep, and will NOT be saved into the Inventory module costs. (You will need to perform a cost roll-up.)

Clicking on the **BOM Comments** button will allow you to enter comments applicable to the entire BOM. The comments field can contain up to 20 lines of routing or assembly instructions for that BOM. The BOM Comments are stored in the **RTMPLATE.DBF** database file.

#### 12.2.7 Move to Sub-Assembly Button

To drop down into a sub-assembly, select the sub-assembly in the grid and then click on the Sub-Assy Button. If the sub-assy is a phantom BOM (an assembly classified as an inventory part in the Inventory module) you will need to set Configuration, Settings and Utilities, Option 68 to allow stepping down into phantom BOMs.

#### 12.2.8 Move to Parent Assembly Button

To move back up to the parent assembly, click on the Parent Assy Button.

#### 12.2.9 BOM Settings Button

Clicking on the Settings button when adding or editing a BOM part number will display the screen shown above.

The **Component Lookup** drop down list box allows the user to set the method the BOM module looks up part numbers. The options are:

- Whole Data Base This method uses an index that is sorted by the field you are looking up the part on. It will stop and display the remainder of the database at the first record that matches the characters you typed in. This is the fastest lookup method possible. Its only drawback is that if you are looking for a listing of all your bearings, it will only find the records whose description start with the letters "bearing" and would not find the records such as "SS Bearing".
- **Starts With Entered Characters** This method is also fast and similar to the first method. The only difference is that this method will only display the matches and not any of the records that follow the matches.
- **Contains Entered Characters** This method starts fast when the database is small. However, as the database grows in size, this method will become slower as it must search the lookup field in each record looking for the word such as "bearing". This method would find and list a record starting with "SS bearing". With 20,000 records in the BOM file, this lookup could take up to 20 seconds depending on your PC and network.

Checking the **Transfer Alternate Part Numbers** check box will set pc/MRP to automatically transfer alternate part numbers from the part number in inventory into the BOM record. If the alternate part numbers are BOM specific, do not check this check box.

#### 12.3 Edit/Delete a BOM Component

This option allows users to scroll, edit, delete, undelete, or run queries against BOM records. If you set the sort order to BOM Number (Unique) and click Save Settings, each BOM will only be displayed once in the scroll window. Select the desired BOM. The Edit screen is similar to the Entry screen, described in Section 12.2.3.

	ows - Version 9.22C	Edit/Delete a BOM		
Iodules Tools Opti	onal Configuration Manual	Component		
Inventory			1	
<u>B</u> OMs Stockroom	<u>N</u> ew BOM <u>Edit / Delete a BOM co</u>			
Purchase	Delete / Recall an enti			
<u>R</u> eceive Work Order	<ul> <li>Duplicate a BOM</li> <li>Change BOM Number</li> </ul>	BOM, selec	or delete a part(s) in a t Modules, BOMs and	
Sales Order	<ul> <li>Change BOM Descripti</li> </ul>	en Edit/Delete	e a BOM component.	
Invoice	<ul> <li>Part # Replacement</li> </ul>			
Shipment	Print BOMs/PIC Lists/V	/hereUsed		
Address Book	<ul> <li>Enter / Edit / Print BOF</li> </ul>	1 Comments		
Accounting	► <u>A</u> udit BOMs			
E <u>x</u> it	Index	IK		
	Remove <u>M</u> arked BOM	Records		
	by	Software A	Arts	

Select the BOM and click on the OK Button.

pc/MRP for Windows - Version 9.2 Modules Tools Optional Configuratio		_ <b>_</b> ×			
HIGHEST BOM NUMBER 0000	(Unique) and press the	Save Settings			
Indexed \$	Bills of Materials Database Button, the BOM will only display once in the scroll window shown below.				
Save Settings	Sort Order Include BOM Number (Unique)	•			
Go Lob Go Bottom	Begin Scrolling At. Vearest Mat 2. Press Search				
BOM Number 000000010 ▶000000011	Description WHEELASSY REAR WHEELAXLE ASSY				
4	3. Cli	ck OK			
Action C ⊻iew ⊙ <u>E</u> dit	Qk	<u>C</u> ancel			
Si Si	u select Edit and press the Save ttings Button, the BOM Scroll ndow will allows be set to Edit.	NUM			

If you need to go deeper, select the sub-assy

Provide a state of the sta	
O00000/11         REAR WHEEL AXLE ASS           Item         Type         Part Number         Part Description           Image: I	Quantity ▲ 2.0000 1.0000
Component Ref. Designators Miscellaneous I Item # 1 BOM Qty 2.0000 Part # 000000010 Type Assembly Description WHEEL ASSY	✓ <u>A</u> dd Item <u>E</u> dit Item Move to: <u>Sub-Assy</u> <u>Barent Assy</u>
Manufacturer       If you wish to view or edit an item in a sub-ass click on the Sub_Assy Button.         Unit       EA         View Assy       Extend         View Assy       Extend	y. hanges: Saye <u>Revert</u>
a List of the BOM components	NUM //

Select the item you wish to edit

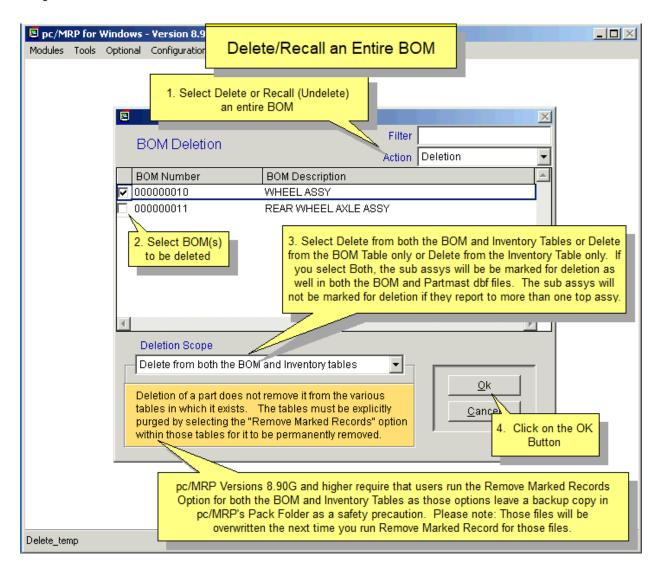
VFP - C:\Y936 (User: DOUG) Modules Tools Optional Configuration Manual	Edit/Delete a BOM Component	×
[ Scheduler Enabled ]		
000000010: WHEEL ASSY (Edit Mo	de)	
Item Type Part Number	Part Description	Quantity 📥
✓ 1 P 00000001	BEARING, 3" OD x 1" ID 1. Select the it	1.0000
✓ 2 P 00000002	SPOKE you wish to edi	40.0000
	LABOR INSIDE	10.0000
4 L 00000014	LABOR OUTSIDE	1.0000 2. To Edit
5 P 00000017	REARING 2, 3" OD x 1" ID	1.0000 or Delete a
Multiple Items can be deleted with these checkboxes		ay Color click the gends Button
Component Ref. Designators M	iscellaneous To add an Item to this assy,	
Item # 5 BOM	/ Qty1.0000	Color Legend
Part# 000000017	Type Part	Edit Item /
Description BEARING 2, 3" OD x 1"		-
Manufacturer 1match/ven good fuzT		Move to:
		<u>Sub-Assy</u>
111-0102-001		Parent Assy
Unit EACH		Changes:
Effective Date Aver	rage Cost	_ Sa <u>v</u> e
Ctort Company and	Unit 10.000000	Revert
End	hoh	
	ded 10.000000 View Part	Einished
a List of the BOM components		NUM //

Now you can make your changes or mark the item for deletion. Now the deleted items are displayed in red. Deletion is a two step process. To permanently remove the records from the database table, set an administrative lockout, and then select BOMs, Remove Marked Records.

VFP - C:\V936 (User: DOUG) Modules Tools Optional Configuration Manual	Edit/Delete a BOM Component
[ Scheduler Enabled ] 000000010: WHEEL ASSY (Edit Mo	Staging Bin, Etc.
Image: Second state state       Image: Second	ood fuzTest
Des Manu I B1, B2	Ave Cost 10.000000 Std Cost 10.000000 Last PO Cost 6.000000 Delete Create New Part Settings Qk Can Click OK to Save
Reference Designators	your changes

## 12.4 Delete an Entire BOM

Allows you to mark an entire BOM for deletion or un-deletion as shown on the screen below:



pc/MRP will ask what scope the deletion/recall should take. In most cases you should select both the BOM and Inventory tables. Now pc/MRP will locate and mark for deletion or un-deletion every occurrence of that part in every BOM. The records will be highlighted in red until deleted via the menu (Modules, Inventory (or BOMs), Remove Marked Records 5.1.15.1 & 12.13).

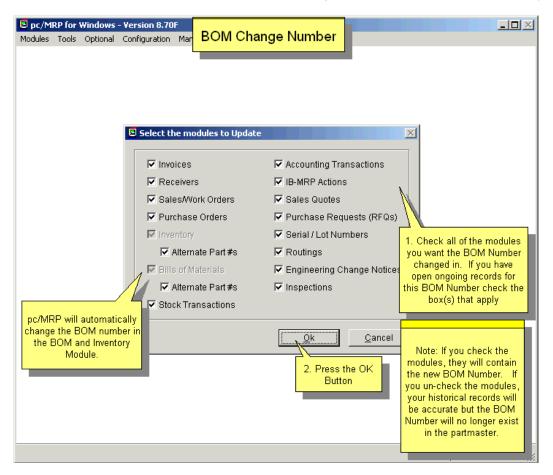
### 12.5 Duplicate a BOM

This feature is useful when the newly created BOM only slightly differs from an existing BOM. pc/MRP will ask for the new BOM's name and description, and create this new BOM with the exact same parts and sub-assemblies as the original BOM. You will need to modify the new BOM, as you would normally edit a BOM.

**Note: Option 51** configures the BOM's Status for newly created BOMs and for BOMs created by duplication.

## 12.6 Change a BOM Number

This option allows you to change a bill of materials number without having to edit every record that contains that bill of material number. pc/MRP also changes the part number in inventory.



**Warning:** In case you would be changing a **blank** BOM number to a valid BOM number, make sure that you uncheck both "**Alternate Part #s**" fields. Keeping these fields checked will tell pc/MRP to fill up all blank altpart#s with the new BOM number in your entire Inventory in BOM table -- and pc/MRP will do just that.

### 12.7 Change a BOM Description

This allows you to change a Bill of Material's description without having to edit every record that contains that bill of material description. pc/MRP also changes the description in inventory.

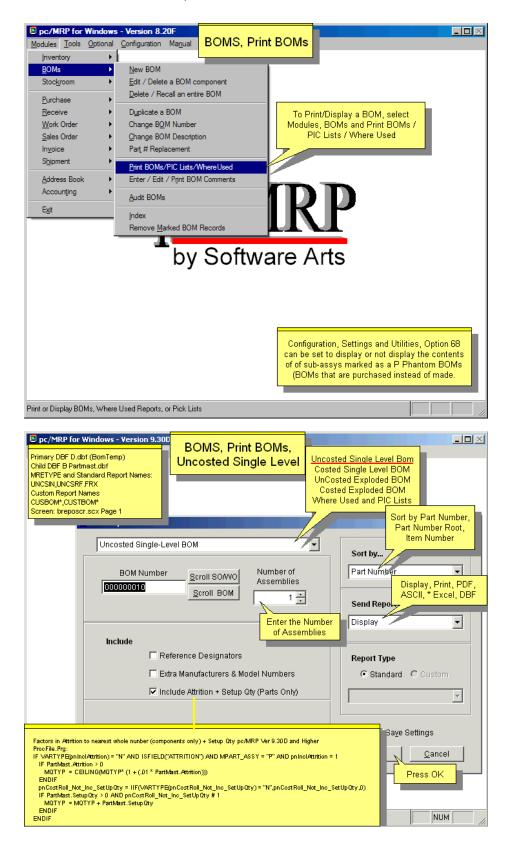
### 12.8 Part Number Replacement

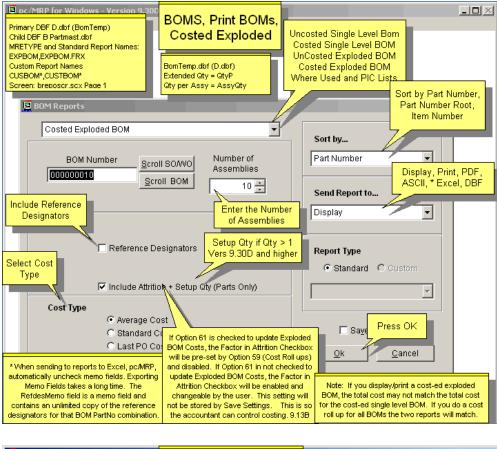
Allows you to replace one part number with another part number in any BOM containing the original part number. You will be able to pick (or select all) the BOMs that you want the part number replaced in.

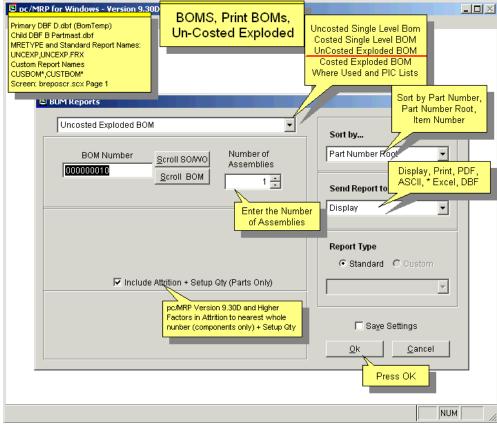
#### 12.9 Reports/Lists

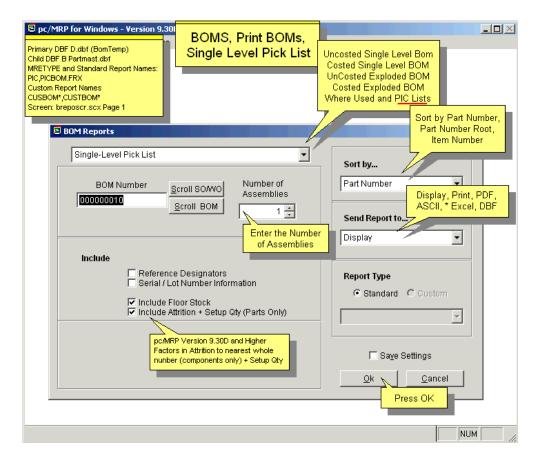
Allows you to print or display BOMs, PICK Lists, and Where Used Reports. pc/MRP will include the contents of the RefDesMemo field when sending the report to Excel.

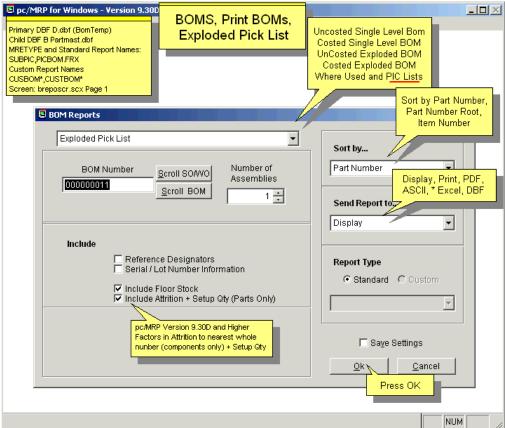
See Section 15.4.1 to create custom reports.









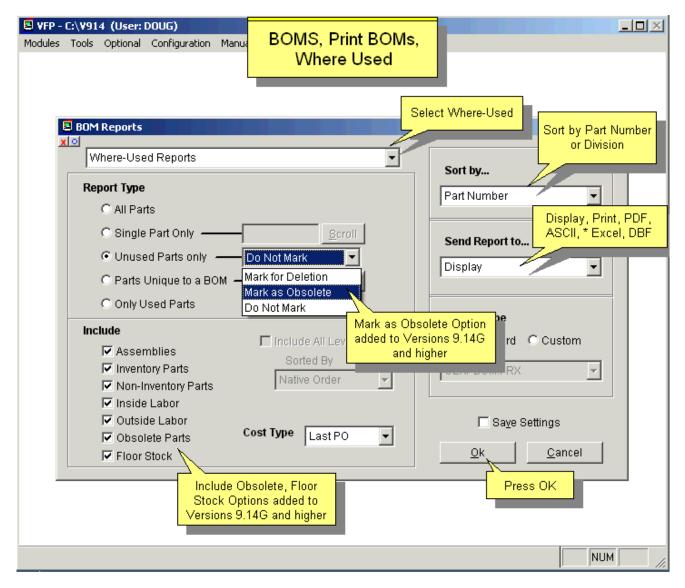


A Costed Exploded BOM would print/display as shown on the screen below:

pc/MRP for Windows - odules <u>T</u> ools <u>O</u> ptional (	Configuration Ma <u>n</u> ual <u>P</u> rint	er			
Print Print Preview		×		-	- 🗆 >
	> >  100% 🔽 🏴	5			
Software Arts					
BOM NUMBER	:00000011	REV:			ĺ
BOM DESCRIPTION	:REAR WHEEL AXLE	ASSY MC	DDEL NO:		
DATE	:12/29/2006				
QTY	:1.0000				
COSTED EXPLODED	LEVEL BOM REPORT	r			
P/B ITEM BOM/PART NUM	BER	DESCRIPTION	LOC	ATE AVECOST	
PART 0002 000000003		REAR AXLE		1000.0000	
SOM 0001 000000010	N	WHEEL ASSY			
PART 0001 00000001		BEARING 3.000D x 1.00ID 1.0	OWIDE SS	9.7500	
.PART 0002 00000002	BOMs and Parts	SPOKE		1.0000	
LABR 0003 00000013	are indented on	LABOR INSIDE		22.0000	
LABR 0004 00000014	exploded reports.	LABOR OUTSIDE		20.0000	
Jpdating assy cos	t in partmaster	BOM COMMENTS:			
Prev Ave Cost:	1579.50				
New Ave Cost:	1579.50				
	lf you	print out a Costed Exploded E	BOM, for a		
	quantit	y of 1 and Option 61 is set to a	allow costed		
		o update costs, pc/MRP will up			
	for	that assembly in the inventory	module.		F

**Note:** If you run the Costed Exploded BOM report and Option 61 in the Configuration menu is set to perform a cost roll-up, it will only roll-up the cost for the assembly you are running the report for. If you then run a Costed **Single-Level BOM report**, it might display a different cost for a multi-level assembly. The reason is that the subassemblies might not have the right cost in Inventory if their cost has not been rolled up recently. The Costed Single-Level BOM report calculates with the current cost in Inventory (which might be out of date). The Costed Exploded BOM report uses the current cost for all parts and subassys. To ensure that all BOM and sub-BOM costs are correct, perform cost roll-ups for <u>all</u> BOMs.

The **Where Used Report** will provide a printout for all parts or for a specified part number. The printout will provide a list of every assembly that uses that part number. It will also note parts that are not used in any assembly. The latter feature is designed to help reduce inventories and inventory write-offs. If the **Single Part** option is selected, users can include all levels of the assemblies where the part is used.



**PICK Lists** are used by stockroom personnel to print out the parts required for an assembly or sub-assembly.

An exploded PICK list includes all of the parts including parts from sub-assemblies in one consolidated list.

The Reference Designator Field prints out on the wide carriage PICK List, wide carriage Uncosted BOM, and narrow carriage uncosted single level BOM reports.

### 12.10 Audit BOMs

This option will check your BOM data base file. As a safety precaution, make a back up copy of the partmast.dbf and bom.dbf files before running this utility. An administrative lockout must be set before running this utility. Select "Compile a list of errors" when prompted. Once you have looked at the error list you can run the report again and select, "Step-through each BOM record with the option to remove it." This program will scan the bom.dbf file and look for the following errors:

- A BOM number that does not exist in the partmast.dbf
- A component part number that does not exist in the partmast.dbf
- A component part number that is marked for deletion in the partmast.dbf
- A BOM number that contains a part number that is the same as the BOM number (recursive BOM)
- A component part number that does not contain a P,A or L in the part\_assy field in the partmast.dbf
- A BOM number in the partmast.dbf file that does not exist in the bom.dbf file
- A subassembly number found in a BOM that does not exist as a BOM in the bom.dbf file.
- A negative part quantity in a BOM.
- It automatically replaces the BOM part/assy/labor field with the contents of the partmast.dbf part\_assy field.

Once it has finished the above error checking, the program will ask, "Do you wish to check for recursive BOM structures". Answer "Yes", to check for BOMs that call themselves at any level.

If you have selected the "Step through and delete" option, and have deleted records, answer "Yes" when asked if you wish to remove the records marked for deletion from disk, as long as you have an administrative lock in place. Otherwise wait with this step until you can set an admin lock.

If any recursive errors were found you must edit/delete the BOM record calling the parent BOM. (See 17.3.17)

Next, the Audit BOMs utility will offer to sync BOM Descriptions and/or Alternate Part Numbers from the Part Master.

#### 12.11 Phantom BOMs / Blow Through BOMs

If you plan to purchase a sub-assembly from a vendor and not build the subassembly in house, it would be called a **phantom BOM**. This can be accomplished in pc/MRP by editing the BOM in the Inventory Module and changing the part/assy/labor field from A to a P. The MRP module would then create action items to buy the sub-assembly from a vendor rather than to buy the components and issue a make for the sub-assembly. However, you would still be able to print this phantom BOM in the BOM module.

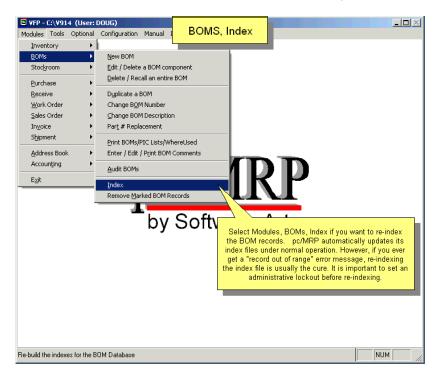
**Option 68** in the Configuration, Settings and Utilities module allows users to step down through phantom BOMs (sub-assemblies marked as P in the inventory module) while editing or printing out a costed or uncosted exploded BOM. In addition, Option 68 allows users to set the default print settings to: never print out phantom BOM subassemblies, always print, or ask.

If an assembly reports to a parent assembly and it is checked as a **Blow Through Assembly** on the inventory screen, pc/MRP will issue component parts and ignore any on hand quantities for that sub-assembly. This is true for Issuing to Manufacturing, Convert Parts to Assemblies, Generating an MRP (Infinite and Single Bucket), Check Availability, Maximum Potential Build, Single Level Pick List, Costed and Uncosted Exploded BOMs (the BOM will contain an "\*" next to it, indicating it is a Blow Through BOM). Basically it is a BOM that is never pre-assembled, you always issue parts to it as though the component parts reported directly to the parent assembly.

## 12.12 Index (also see 15.14.3)

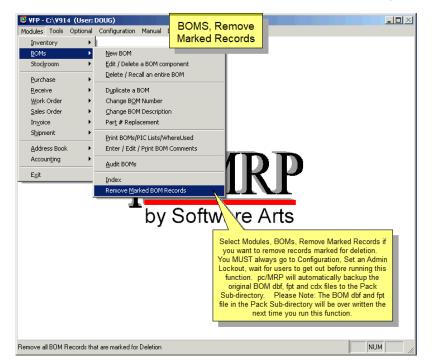
Selecting Modules / BOMs / Index to update the BOMs index file.

It is important to set an administrative lockout before re-indexing.



### 12.13 Remove Marked Records (also see 15.14.4)

Selecting Modules / BOMs / Remove Marked BOM Records to remove BOMs previously marked for deletion. It is important to set an **administrative lockout** before removing records.



# **13 Work Order Module**

#### 13.1 Overview

VFP - C:\V905 (User: DOUG)			
Modules Tools Optional Configura	<sub>ation Mar</sub> Work Order Overv	lew	
Stockroom	enter a new work er, select Modules, ork Order, and New Edit on existing	pc/MRP Versions 9.01 and higher added the option to create and edit multi-line	
Purchase	Frk Order, and New Edit an existing work order	item work orders in place of single line item work orders	
<u>W</u> ork Order ► <u>M</u> ew	Print/Display/	Email a work order	
Sales Order Edit / V Invoice Print Shipment Report:	View Print/Dis	olay work order reports	
Re-Index the sales	ve <u>M</u> arked Records	I sales and work orders marked for deletion sales and work orders over X years	
pc/MRP's Work Order Module allows Manufacturing to build assys and sub-assys to stock. We advise companies to not create work orders for sales orders as that is just an extra step. However, if you want to use work orders (for consolidation purposes, do not want to build to order, would like to build extra assys and or sub-assys) then create work orders. Work Orders can be marked as consumable or dedicated to a specific sales order. Entering Work Orders does not relieve you from entering sales orders as sales orders are invoiced and the finished assys are deducted from stock. Work orders can only put assys and sub-assemblies in stock but can not relieve those assemblies and sub-assemblies once they have been built.			
Create a New Work Order			

pc/MRP's Work Order Module allows Manufacturing to enter, edit, and print in house work orders to build to stock. <u>There is no need to enter a WO for a Sales Order</u>, unless you have a reason to. When you build a bicycle, the BOM is several levels deep, but still even if you gather all the parts and carry them in a box to the manufacturing floor, the guys will probably know what to do with them. If your final BOM is simple or obvious like this, then no need for extra paperwork; you can simply issue the SO to manufacturing, and yes, the system will figure out all steps, infinite levels deep.

Here are some possible reasons to use work orders:

1. The final BOM is too complicated, the workers would not know which part goes into which subassembly; even with the exploded BOM list in their hands it would be just too many parts in that pile of parts if all parts would be issued at once. Or, different groups are working on different subassemblies at the same time, and you don't want to give them all parts mixed. In this case enter work orders for some of the bigger subassemblies. You still don't need to enter WOs for every single subassembly. In this case enter the WOs with a due date earlier than the top assembly due date, and make sure that all WOs are marked as consumable. This is important for the IB-MRP. You will have to receive back each subassembly (R-type stockroom transaction) and then issue it to the higher level WO (or the SO itself). This is what we mean by extra paperwork.

2. You do not have a SO for this item, you are building for stock. In this case you would enter a WO for the top assembly. Again, you can enter WOs for some subassys, as described in (1).

3. You have a SO for 2 products but it is not worth it to drag out all the machines for to build just 2 top assemblies. You want to build 10, the rest of the 8 for stock. In this case enter a WO for 10. Again, consumable, with a due date earlier than the SO date.

4. You have a SO for 100 items, but the customer wants you to ship 10 every month. In this case it is probably better to enter the SO as 10 line items for 10 items each, with the due dates in 1 month increments for each item. (You could use the clone or breakdown buttons for this.) If the customer doesn't want that, then enter a SO for qty 100 due on the final date, and enter WOs for the partial quantities and due dates.

Sales Orders and Work Orders share the same database file. The Sales Order line items are numbered 0001, 0002, 0003, etc, up to 9999. Work Order line items are numbered 00WO, 01WO, 02WO, etc, up to 99WO. Work Orders are closed by issuing the work order (through the Stockroom Module) to manufacturing and receiving the finished assemblies back from manufacturing. Sales Orders are closed by entering invoices. **Note**: Versions **9.00** and below only allowed one line item per work order.

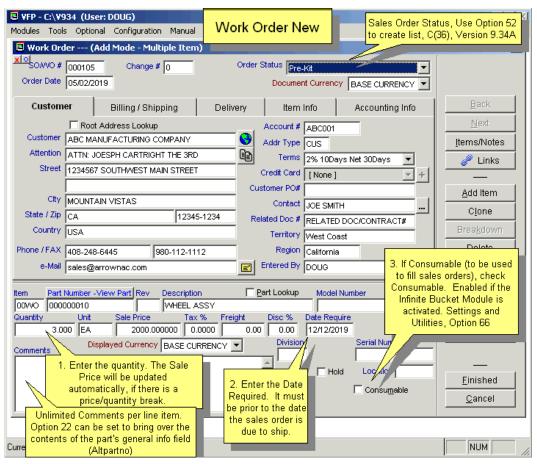
**Note:** If the flag file **SHORTRTN.FLG** exists in the PCMRPW folder, work orders returned from manufacturing short will prompt users to decide to

- leave the WO open and return only necessary WIP components (this is the default action w/o the flag file), or
- close the WO and return all WIP components.

If you use work orders when generating an MRP, include both sales and work orders to drive demand. pc/MRP's Infinite Bucket Module will use the work orders to fill sales orders. The sales orders will only generate sale action items. There will be no overbuilding. If the work orders do not cover the sales orders, you will see buy and issue action items for components driven by the sales order that is not filled by existing work orders letting you know that existing work orders do not cover all of your requirements.

If a customer orders **spare parts**, put those parts on a sales order, not a work order. Work Orders were designed to build sub-assys and assys, not to sell spare parts to a customer.

#### 13.2 Enter a New Work Order



Select "Work Order", "New". The Work Order Data Entry Screen will appear. Entering a Work Order is very similar to entering a Sales Order, except:

- Entering a customer is optional. Leave it blank or enter your own company's name. Since a Work Order is an in-house build to stock, the Customer PO Number, Customer Contact, and Freight fields can be left blank. The part number must be a valid assembly number in Inventory, not a component part or "NA".
- Work Orders can be designated as being **consumable**. (This is only applicable if the Infinite Bucket Module has been activated.) Consumable work orders will be used to fulfill open Sales Orders and work orders whose date due exceed that of the consumable work order. See the chapter on the Infinite Bucket for more details. Also see **Option 66**.
- You can **Clone** a work order, but you cannot **Breakdown** a work order.

**Note:** When a work order is entered, pc/MRP increments the ondemand quantity for the completed assembly and not the parts in that assembly. The explosion is done later in a temporary scratch pad field whenever Purchasing runs an MRP Report. The MRP Report takes each assembly's on demand quantity and allocates finished on hand assemblies, subassemblies, and finally parts, to fill the demand. When it runs out of parts or goes below the minimum quantity level, it prints out that part number and the quantity to purchase.

The above method provides pc/MRP with the following advantages:

- The on-demand status of any assembly is available
- Line items can be quickly entered without waiting for an explosion
- You can build to stock, stocking finished-assemblies and sub-assemblies

## 13.3 Edit/View/Scroll/Delete/Undelete

All of the fields in a work order are editable, but users must understand several key concepts before editing WOs.

- If you were to edit the quantity on a work order, you must also edit the quantity on demand in inventory or run one of the Audit OnDemand features. The Issued to MFG and the Qty Assembled fields appear on the edit screen for work orders (under the Item Info tab). pc/MRP will automatically enter a "Y" when the assemblies are issued from stock to manufacturing. The Qty Assembled field is automatically updated when the assemblies are received by the stockroom from MFG.
- The **Complete** field is displayed only in the edit mode and is filled in automatically when *all* the items are received back from manufacturing. pc/MRP uses the Complete field to determine if a record is overdue, open, or closed. A "Y" in the Complete field marks the record as closed. An "N" in the Complete field marks the record as open.
- The **Change #** is used to note any changes in the order.
- Use the delete button to mark a record for deletion. As a second step you will need to Remove Marked Records, under an administrative lockout.
- If a WO has been issued to MFG but not fully received back, users should avoid editing the Quantity on the WO. When trying to edit the quantity, users will either receive a warning (and can choose to continue) or they will be blocked completely. This is set by Configuration **Option 53**.
- Use the **Delete** Button to mark a line item or the entire work order for deletion. Line items that have been issued to MFG but not fully received back, can not be marked for deletion. To permanently remote the records from the database table, set an administrative lockout, then select Sales, Remove Marked Records. **Note:** Versions **9.06A** and lower only allowed the user to delete line items one-by-one.

# 13.4 Multi-line Work Orders

Works Orders can have up to 100 line items. Just like with Sales Orders, users can move to the next and to the previous line item, view all line items at once, or mark one or more line items for deletion. Users can also clone Work Orders, which can be a huge time saver if you need to create work orders for the same assembly for every week of the year. **Note:** Versions **9.00** and lower only offered one line item per Work Order.

## 13.5 Consumable Work Orders

If you are going to use work orders, <u>we recommend marking work orders as consumable and not</u> <u>dedicated</u>. If a customer changes his sales order, all of the dedicated work orders (of this sales order) must be changed to match. If the work order is consumable, pc/MRP will simply use the consumable work order to fill other sales orders.

If you are going to enter consumable work orders for a sales order, make sure the date required on the consumable work order is due *before* the date required on the first sales order this work order is to fill. Otherwise, pc/MRP will have you build both the sales order and work order, as the work order will not be finished in time for the sales order to use.

**Note**: The Consumable checkbox will only be available on the Work Order screen, if the Infinite Bucket MRP module has been activated. **Option 66** can set Work Orders to default to Consumable.

FOX C:\V Modules Tools	901 (User: DOUG) ; Optional Configuration Manual	Work C	order New		-D×
	ler (Add Mode - Single Item)			Back to view previous line	X
SO/WO #	000104 Change # 0		* N	Vext to view next line item	Back
Custom	er Billing / Shipping	Delivery	ltem Info	* ∨iew all line items	Next
	Root Address Lookup		Account # A	Add, View Links to files	Litems/Notes
Customer	ALLIED ELECTRONICS	3	Addr Type VEN		🚬 🥜 Links 📗
Attention	ATTN: JOHN DOE		Terms TERMS	* Add a line item	
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City	SAN JOSE	~~	Contact Line		C <u>l</u> one
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Country	USA		Territory		
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e-Mail	sales@alliedelec.com/		Er		Options
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	DODO10 WHEEL AS				Logbook
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				Hold Location	<u> </u>
** Versions 9	pc/MRP Versions 9.01B and higher. .06B and higher offer to Delete or lete the entire work order.	When you	Jare ready to iss	on will save the work order. sue this work order to mfg, , Issue to Manufacturing.	

## 13.6 Dedicated Work Orders

To create a parent sales or work order, check its (the parent's) Require Dedicated Work Orders check box (Item Info tab). To create dedicated work orders, you must enter the sales/work order number and item number it is dedicated to (Item Info tab). See the screens on the next page.

#### 13.6.1 Dedicated Work Order Rules

A top dedicated sales or work order cannot have a duplicate twin work order for the same assembly(s) reporting to it. The Infinite Bucket Module will not use the twin work order and insert an error message into the MRP Error Log asking you to delete the twin work order and re-generate the MRP. All work orders dedicated to a top parent work order must be sub-work orders, as shown in the figure above.

All sub-work orders regardless of level must be dedicated to the top parent sales or work order.

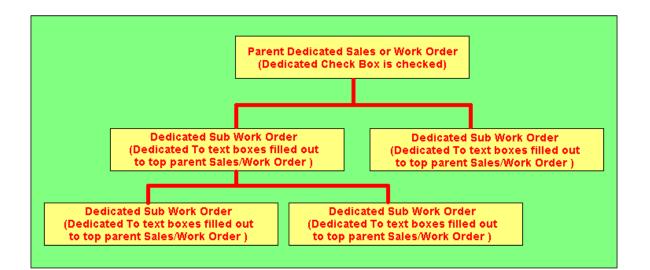
If you do not have a dedicated WO to the WO/SO requiring dedicated WOs, an error message is generated telling you that it created a MAKE action item referencing the WO/SO and you will have to create the dedicated WO yourself and re-run the MRP. "Error, no WO exists for SO xxxxx, created an undedicated WO referencing the WO/SO."

Once a sales or work order has been issued to manufacturing, you cannot change its dedication information.

Dedicated sub-work orders for the lowest level assemblies must be issued first and received back from manufacturing before the next level up sub work orders can be issued to manufacturing. Failure to do so could cause pc/MRP's Infinite Bucket Program to generate error messages notifying you it created un-attached make action items. You would have to un-issue the work order and regenerate the MRP to correct the situation. The dedicated sub work orders must have a date-required field that is prior to the date-required field on its parent sub-work order. If not, pc/MRP will insert an error message into the 'MRP Error Message Log' and the 'Make Push Pull Report', warning you that the date-required should be changed. pc/MRP will generate the MRP based on its recommended date, hoping that you will change the work order's date required and issue it on the date listed on the action item report.

You cannot have a dedicated Work Order for the same assembly as the Sales or Work Order to which it is dedicated.

All dedicated sub-work orders are consumable but will only be used by the top parent work order or another work order dedicated to the same top parent work order.



Solvo # 000101 Solvo # 000101 Order Date 07/13/200	it Mode - Multiple Item) Change # 3 Sales Type Order Entry	Document Currency BASE CURRENCY	Back
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	Qty	ued to MFG N Assembled 0.000 ity Shipped 0.0000	Add Item
S (555)	hark a sales order or work order as the		
Sale Commi Re boy L has	nt for dedicated work orders, check th quired Dedicated Work Orders check Once the sales order or work order been issued to manufacturing, you wil	ccount	Brea <u>k</u> down Delete
Roye not	be allowed to change this check box.	al Cost 0.00	<u>O</u> ptions
Item Part Number	Description 🗖 Par	t Lookup Model Number	Logbook
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10.000	0.0000 0.000 0.000	0.00 09/11/2003 N	Create Address
Comments	Displayed BASE CURRENCY	Serial Number	
		Location Tax Type Resale	<u>F</u> inished
			<u>C</u> ancel

🗷 Work Order (Edi	t Mode - Single Item)			×
SO/WO # 000103 Order Date 07/03/2003	Change #		Document Currency BASE CURRENCY	<u>B</u> ack. Next
Customer	Billing / Shipping Addresses	Delivery	Item Info	Jump to Item
Require Dedicated to SOWVO # Dedicated to Item # Tax Code Salesman Sale Commission % Licensor Royatty Rate	0001	e the sales order nu	Imber and line	Add Item Clone Breakdown Delete Options
Item Part Number	example we are dedi         Des         WHI         Sales Order 000103         Order is issued to ma         to change the cor         0.0000       0.000         isplayed         BASE CURRENCY	Line Item 0001. O nufacturing, you wil ntents of the dedica	nce this Work I not be allowed tion fields.	Logbook Create Part Create Address <u>E</u> inished <u>C</u> ancel

# 13.6.2 How pc/MRP's Infinite Bucket Module processes dedicated work orders

When generating an MRP, pc/MRP will first check that the date required on all dedicated sub-work orders are correct. If the date(s) required are not correct, it will add an error message to the MRP Error log and the Make Push Pull Report warning you to change the date(s) required. It will then use the correct date(s) required and generate an MRP.

When allocating sub-assemblies to a dedicated sales or work order, pc/MRP will first allocate from the on hand quantity of the sub-assembly. If more are required, it will allocate from sub-work orders dedicated to the same top work order or from non-dedicated consumable work order (based on which work order has the earliest date due). Finally, if it cannot allocate a sufficient quantity, it will insert an error message into the MRP Error Log warning you it created an unattached make for that assembly.

When generating an MRP with pc/MRP' Infinite Bucket Module and a sales order requiring dedicated work orders comes to a sub-assy that has an standard order qty or order multiple and there is only a partial qty of the sub-assy in stock, pc/MRP will handle it follows:

- The MRP generation will display an error message warning you that an undedicated make action item was created for the exact qty required the qty available. It will ignore the fact that the sub-assy has a standard order qty or order multiple.
- The user should then create a dedicated work order manually or by automatically by selecting Optional, Infinite Bucket, Automatically create work orders, Per order requirement, Lower level sub-assys only.
- You should then regenerate your MRP so that the dedicated work order is included on your new schedule instead of the undedicated make action item.

#### 13.6.3 How pc/MRP's Infinite Bucket Module processes un-dedicated work orders

pc/MRP's Infinite Bucket Module was originally designed such that users could simply enter sales orders, generate an MRP, and when ready, issue the top-level sales order and all of its assemblies to a staging box or area. If there were shortages, pc/MRP's Stockroom module and MRP program would prompt you to order the missing parts and issue them when they arrived. Work orders did not need to be created for sub-assemblies. Work Orders for Sub-assemblies did not need to be issued on set dates and received back on set dates so the next level up work orders could be issued. When running the Infinite Bucket Module, pc/MRP simply looked at the current situation and modified its Make Action Items to get the job done. If parts or sub-assemblies were used for another job it simply created new make or buy action items to fill the sales orders. Work orders were used primarily to build runs of common sub-assemblies and could be used for any sales order.

## 13.6.4 Additional error trapping code added to pc/MRP's Issue to Mfg function

pc/MRP's Stockroom Module's I and L 'Issue To Manufacturing' functions will throw an error message and not allow the issue for the following conditions if you are issuing a dedicated sub-work order:

- If the top parent order does not exist
- If the top parent work order does not require dedicated work orders
- If the top parent work order is for the same part/assembly number

In addition, when issuing a dedicated sub-work order, pc/MRP's Issue to Manufacturing function will only allow the user to select the Issue Sub-assemblies Only option.

#### 13.7. Tracking Work Orders without Using Dedicated Work Orders

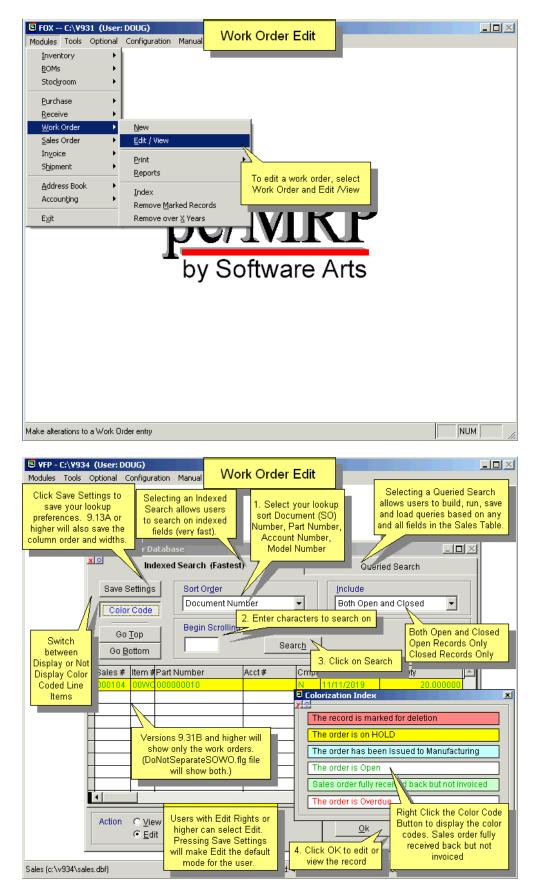
Companies that wish to track each work order that was created for a top assembly sales order or work order, but want to avoid using dedicated work orders, might find the following method useful.

Let's assume we have a sales order 000101 0001 for a bicycle. pc/MRP does not require the user to enter a work order for each subassembly, but under some circumstances users might want to do so. Let's enter work order 000201 for 2 wheels. Use the related document number field to tie the SO and each of the subsequent WOs together; type the same top assembly sales order document number (000101 0001) into the related document number field of SO# 000101 0001, and also into the related document number field of WO# 000201 and any other WOs that are entered to build subassys for the SO.

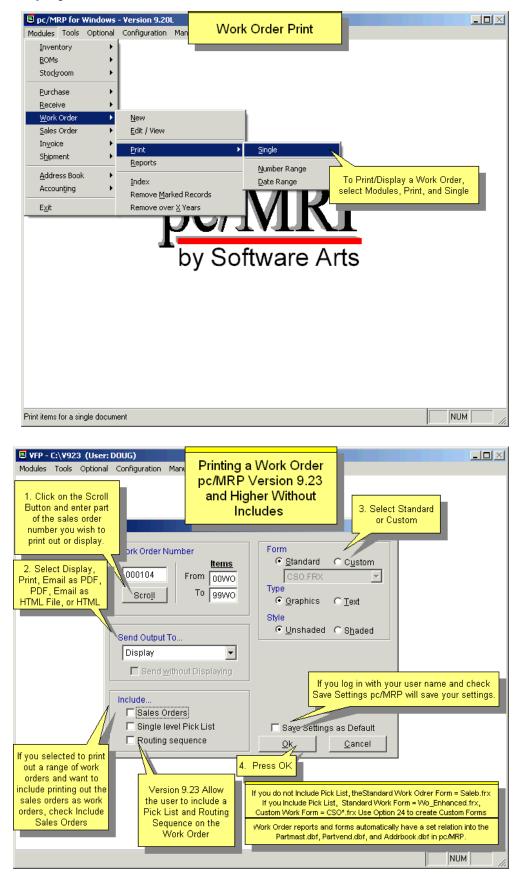
In this example we always want the bicycle to be built from subassemblies and first level parts, i.e. we do not want wheel-parts (rims, spokes) be issued to SO 000101, but to WO 000201. If there is no finished wheel in stock, we want the SO to carry a shortage for the wheels, not for the parts of it. For this reason when issuing the SO to manufacturing we check "Subassemblies only". (It is even better to check the SO as "Parts and Subassys only", because then at the time of entering the I type stockroom transaction, only the "Subassys only" option will be available. Yet even better is to check the bicycle itself as "Parts and Subassys only", because then the SO will automatically be created as "Parts and Subassys only".)

When we run a stock transaction report, all for the related document number 000101 0001, we will see all stockroom transactions associated with building this bicycle; i.e. all transactions for the top SO, and also for the WOs related to it.

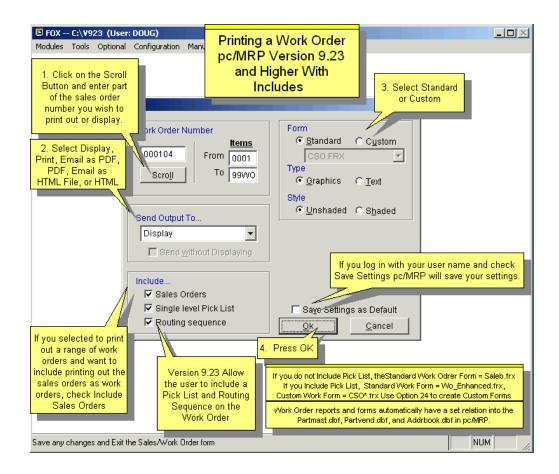
#### 13.8 Edit a Work Order



#### 13.9 Print Display a Work Order



VFP - C:\V923 dules Tools Print Previe	Optional Co	onfiguration Man	pc/MR		rk Order ion 9.23 er	
			-	100% 🔻	•	WORK ORDER#:000104
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AT TN 1234	I: ACCOUNTS 1567 SOUTH NTAIN BILLS	FURING BILLING 5 PAYABLE WEST BILL STREE 5, CA 12345-BILL	т		SHIP TO ADDR	ABCD MAN UFACTURING SHIPPING ATTN: RECEIVING 1234567 SOUTHWEST RECY STREET MOUNTAIN SHIP, CA 12345-SHIP USA-SHIP
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PICK			WH	EEL ASSY				12/07/18	12/12/18
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The small temporary table that holds the routing sequence data does NOT have a field for the short name. We never considered that the short name would repurposed to hold a value other than an abbreviated version of the long name. Since the long name appears on the WO form, we assumed the short name wouldn't be needed.

Fortunately, the short name for a routing station can easily be retrieved via an array reference while the WO form is being printed. The field expression within the "RouteSeq" band of the WO form would be: **ARouteSets[RouteSeq.WsNo, 2]** 

Long WS Name = RouteSeq.WsName Long WS Name = aRouteSets[RouteSeq.WsNo,1] Short WS Name = aRouteSets[RouteSeq.WsNo,2]

## 13.10 Queried Search Overview (see 15.14.1)

## 13.11 Indexed Searches (see 15.14.2)

13.12 Index (see 15.14.3)

## 13.13 Remove Marked Records (see 15.14.4)

#### 13.14 Remove Over X Years (see 15.14.5)

**Note:** Sales orders and Work orders share the same database table. When users instruct pc/MRP to remove all Work orders older than X years, pc/MRP will also remove all Sales orders that are older than X years. If you want to keep all Sales orders and only want to delete old Work orders, call Software Arts for assistance.

# 14.1 Accounting Overview

# 14.1.1 Accounting Overview

Accounting Overview  Burchase Receive Work Order Sales Order Inwoice Shipment Address Book Accounting GL Transaction	Supports Average Cost, Standard Cost, and FIFO costing Supports Perpetual, Periodic Accounting Practices Supports Divisions and Departments General Ledger, Balance Sheet, Trial Balance, Profit and Loss Reports Cost of Sales, Commissions, Sales Tax, PPV, AP and AR Reports Check Reconciliation and Cash Out Projection Reports Charge Credit Cards, Print Checks, 1099, 1096 Tax Forms Debit and Credit Memos Audit Program reports invalid dates, duplicate transaction numbers, etc.
Exit Accounts Paya Batch Post Rec	Batch Post Receivers (Versions 8.90M, 8.94J, 8.95E or higher)         able         ceivers         Select Receivers and Print Checks         ivyable         Batch Post Invoices         roices         mer Payment         Displays running balance for each Chart of Accounts         Displays/Prints graphical Expense and Revenue Reports
Item not shown on this screen shot, Wells Fargo Reconcilement (Well Fargo will only cash checks on this list) Debit Memos Chart of <u>A</u> ccou Tax Code <u>E</u> ntit Post Month w/ Enter / Edit <u>B</u> u Audit <u>I</u> ransact	Ints       Enter/Edit Chart of Accounts         unts       Enter/Edit Tax Entities         ty       Close/Reclose a month and print financials         Print Einancials       Create a monthly Budget for each Chart of Accounts         dget Figures       Provides a report any and all accounting errors         updates Customer Balances in Address Book.       IRS Tax Forms and 1099, 1096 for vendors

pc/MRP's Accounting package is an easy to use **Double Entry System**. pc/MRP's Accounting Package includes a General Ledger, Accounts Payable, Accounts Receivable, and an integrated Check Writing Module. pc/MRP's Reporting Module will provide State Sales Tax Reports, Sales Commission Reports, and Cost of Sales Reports. The Audit option checks every accounting transaction for errors, such as invalid dates, duplicate transaction numbers, etc.

The ChartAcc dbf file contains a record for each chart of account. Each record (chart of acct) contains the beginning and ending balance for that chart of account for each month of the current year.

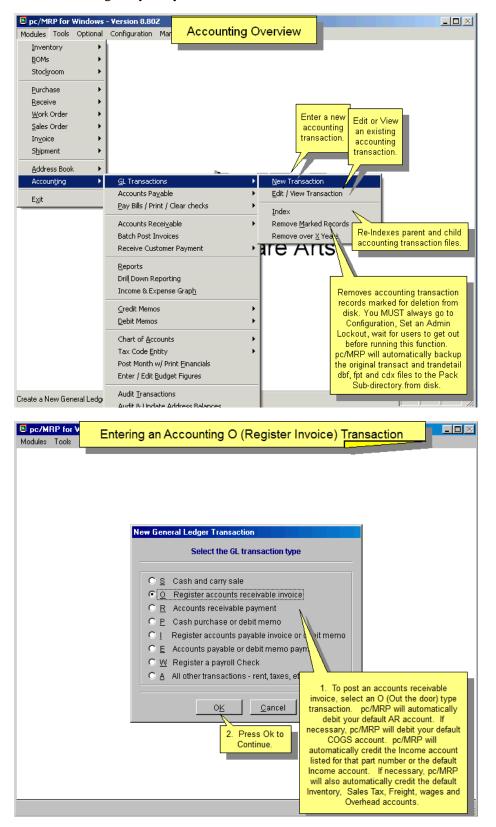
The Transact dbf file contains a record of each accounting transaction entered into pc/MRP. Each record (transaction) contains a transaction date and the chart of accounts that were debited and credited along with their respective amounts.

When you close (post) a month, pc/MRP prompts for which month, gets all of the transactions for that month, uses them to debit and credit against those accounts, and places the result in the ending balance for each chart of account for that month. It then prints out the financial statements for that month based on those ending balances. This simple method allows you to close and re-close months up to twelve months back.

pc/MRP generates a **CLOSEINPROGRESS.FLG** when a close is started. This flag will clear itself when the close process has completed or after 1 hour if a computer failure has occurred. The person who initiated the close can log back in immediately and not wait the hour.

## 14.1.2 General Ledger Transactions

The General Ledger Module allows you to enter accounting transactions in the general ledger. Once the transactions have been entered, you can edit, scroll or print the transactions. You can also print out checks for those transactions either singularly or by batch. For additional details, see 14.4.1.



Inventory	Configuration M Configuration M Overview - V and H	ersions 8.88
Stockroom	GL Transactions Accounts Payable Batch Post Receivers	The Accounts Payable Voucher Option lets you enter an AP Voucher for rent, water, phone, etc with just a couple mouse clicks (provided you set it up correctly).
	Back Post Receivers         Pay Bills / Print / Clear checks         Accounts Receivable         Batch Post Invoices         Receive Customer Payment         Reports         Drill Down Reporting         Income & Expense Graph         Gredit Memos         Debit Memos	Print Querer  Print Quemary Report  Print Summary Report
Create a New Accounts-Pay	Chart of <u>A</u> ccounts Tax Code <u>E</u> ntity Post Month w/ Print <u>F</u> inancials Enter / Edit <u>B</u> udget Figures	If you do not have the Audit Trail Module, Versions 9.12E - 9.13E display an Error 12 error message when you edit an AP Voucher or Receiver. No harm is done. Update to Version 9.13F or higher.

The Accounts Payable Module allows you to enter, edit and print out accounts payable vouchers and reports. Since pc/MRP uses receivers as account payable vouchers it is not necessary to use this module for items that are received by receiving. Items that are not received, such as rent, can be entered as an accounts payable voucher. The accounts payable voucher will be assigned the next available receiver number and actually become a receiver record with a "00AP" line item number. If auto accounting is on (in the configuration menu), entering a receiver or accounts payable voucher will automatically make an entry into the general ledger, debiting purchases and crediting accounts payable.

For items received with the receiving module, (Software Arts recommends leaving auto accounting off, selecting manual entry), the accountant would not enter an accounts payable voucher but would enter a general ledger transaction into the general ledger (Accounting, GL Transactions, New). The accountant would select an "I" type transaction. Entering an "I" type transaction for that receiver will debit the purchasing account and credit the accounts payable account.

The accountant would enter an "E" type transaction into the general ledger when the items on the receiver are paid for. Entering an "E" type transaction for that receiver will debit the accounts payable account and credit the checking account. The receiving record stores the amount due for each line item and the amount paid for each line item. If the amount paid equals or exceeds the amount due, pc/MRP marks the record as complete by placing a "Y" in the receiver record's 'Complete' field. For further details, see the Accounts Payable Chapter, 14.8.1.

## 14.1.4 Accounts Receivable/Billing

The Accounts Receivable Module allows you to enter, edit and print out accounts receivable vouchers and reports. Since pc/MRP uses invoices as account receivable vouchers it is not necessary to use this module for items that are invoiced. Items that are not invoiced can be entered as an accounts receivable voucher. The accounts receivable voucher will be assigned the next available invoice number and actually become an invoice record with a "00AR" line item number.

If auto accounting is on (Configuration, Settings and Utilities), entering an invoice or accounts receivable voucher will automatically make an entry into the general ledger, debiting purchases and crediting accounts receivable.

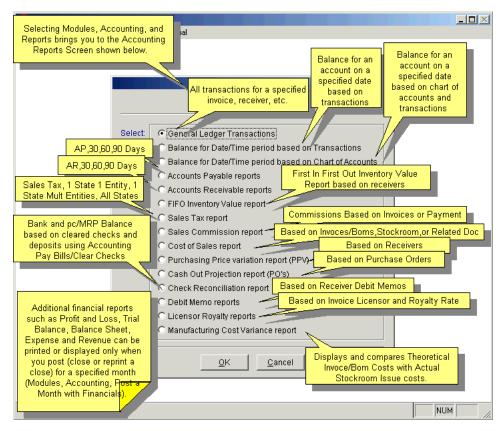
For items that were invoiced with the invoice module, (Software Arts recommends leaving auto accounting off, selecting manual entry), the accountant would not enter the accounts receivable module but would enter a general ledger transaction into the general ledger (Accounting, GL Transactions, New). The accountant would select an "O" type transaction. Entering an "**O**" type transaction for that invoice will debit the accounts receivable account and credit the business income account. (See Section: 14.4.1.2.)

The accountant would enter an " $\mathbf{R}$ " type transaction into the general ledger when the items on the invoice are paid for. Entering an "R" type transaction for that invoice will debit the checking account, and credit the accounts receivable account. The invoice record stores the amount due for each line item and the amount paid for each line item. If the amount paid equals or exceeds the amount due, pc/MRP marks the record as complete by placing a "Y" in the invoice record's 'Complete' field.

This module will also print out Billing Statements for every customer that has an open invoice in the invoice file. For further details, see the Accounts Receivable Module, Chapter 14.9.1.

## 14.1.5 Reports

The Accounting Report Module provides a multitude of accounting reports. See Section 14.7.1 in this Manual for a full list of reports and options.



#### 14.1.6 Drill-Down Reporting

This module will allow	you to select a chart of accounts	number as shown below.
------------------------	-----------------------------------	------------------------

10200000 Ę/	ASH ON HAND ANK CHECKING ACCOUNT	N	AC
× *	ANK CHECKING ACCOUNT	N	
10300000 B		IN	AC
	WK SAVINGS ACCOUNT	N	AC
11100000 🗛		N	AC
11200000 /	Double Clicking on the Chart of Account	N	AC
11900000 /	Number will take a scrollable window	N	AC
12100000	listing all transactions for that account	N	AC
13100000	number sorted by date.entered.	N	AF
13200000 FL	KNITORE & FIXTORES.	N	AF
13300000 TF	RANSPORTATION EQUIP.	N	AF
13400000 LE	EASHOLD EQUIPMENT	N	AF
13500000 LA	AND	N	AF
12600000 DI		l.n.	A.C.

Clicking on a Chart of Accounts Number will display a scrollable window listing all transactions for that account number sorted by date entered as shown below.

odules <u>T</u> ools	<u>O</u> ptional			r <b>b</b>	* 🛐	
	1	ACCOUNT (10200000) Debit Ac			*	
Date	Trans#	Company Name	Description	Invoice#	Receive#	
04/23/2003	000169	ABC MANUFACTURING CO	BEARING	NONE	000005	-48281.95
04/23/2003	000170	ABC MANUFACTURING CO	BEARING	NONE	000001	-48365.20
04/23/2003	000172	ABC MANUFACTURING CO	PART 1	NONE	000009	-48370.75
04/23/2003	000174	ABC MANUFACTURING CO	BEARING 3.000D x 1.00ID 1	NONE	000020	-48381.85
06/05/2003	000179	HEWLET PACKARD	WHEEL ASSEMBLY123456789	000163	NONE	-47507.31
06/24/2003	000180	ABC MANUFACTURING CO	BEARING	NONE	000003	-47557.39
06/24/2003	000181	ABC MANUFACTURING CO	BEARING	NONE	000006	-47607.47
06/24/2003	000182	ABC MANUFACTURING CO	BEARING	NONE	000007	-47657.55
06/24/2003	000183	ABC MANUFACTURING CO	TEST BOM YABA	NONE	000008	-50065.30
06/24/2003	000184	ABC MANUFACTURING CO	INSIDE LABOR TEST	NONE	000010	-50065.30
06/24/2003	000185	ABC MANUFACTURING CO	PAPER OFFICE SUPPLY(NonI	NONE	000012	-49965.30
06/24/2003	000185	ABC MANUFACTURING CO	PAPER OFFICE SUPPLY(Nonl	NONE	000012	-51630.30
06/27/2003	000186	ABC MANUFACTURING CO	REAR WHEEL AXLE	NONE	000013	-52740.30
08/01/2003	000188	ABC MANUFACTURING CO	NUT	NONE	000023	-52758.06
09/09/2003	000190	CUSTOMER FOR TESTING	WHEEL ASSY	000404	NONE	-50538.06
10/07/2003	000193	CUSTOMER FOR TESTING	WHEEL ASSY	000405	NONE	-39438.06
11/12/2003	000195		TEST	NONE	NONE	-39438.06
		Double Clicking on the Transaction will display the Transaction			Invoice or display tl	licking on the Receiver will he Invoice or ceiver.
Sort by <u>S</u> how Tra	Date nsaction	Show Invoice	Ending balance	j	<u>C</u>	ancel

Clicking on a transaction number will display the complete transaction. Clicking on the invoice or receiver number will display the complete invoice or receiver.

## 14.1.7 Income and Expense Graphs

This module will allow you to display/print Income and Expense Graphs as shown below:

pc/MRP for Windows Modules Tools Optional		Accounting Graph Income and Expense Print	
50000 40000 30000 20000 10000 0 Jul14 Aug14		and Expense	Expense
Income & Expense Su   Revenue Cost Of Goods Sold Cost of Labor Operating Evenese Writ Oth Oth Graph and R press the P NET	mmary Income & I Jul14 Au 20000.00 -17200.00 -2200.00 -1302.00 the Graph or elevant Data, rint Button.	Send Report To         Print - Narrow         Report Type         Standard         Standard         Standard         Y         400.00         14700.00	Output Type © Graph and Relevent Data © Graph Only Save current settings as default Ok Cancel Cancel

#### 14.1.8 Print/Clear Checks

This module will allow you to print, reprint, clear and unclear checks and to print a remittance report. For further details, see Printing Check, Chapter 14.14.1.

#### 14.1.9 Credit Memo Module

The Credit Module allows you to issue a credit to a customer to cover returned goods, pricing errors, freight, etc. (see 14.10)

#### 14.1.10 Debit Memo Module

The Debit Module allows you to issue a debit to a vendor to cover returned goods, pricing errors, freight, etc. (see 14.11)

#### 14.1.11 Chart of Accounts Module

The Chart of Accounts can support up to 10,000 accounts. The Chart of Accounts must be established prior to using pc/MRP's accounting modules. The chart of accounts provided by pc/MRP may be used as is, or modified to suite the needs of the business. If the chart of accounts is modified, those modifications must also be entered into pc/MRP's Utility Module. See Chapter 14.3.1 for further details.

## 14.1.12 Tax Code Entity

VFP - C:\V780	Configuration Manual Tax Code Entities
Inventory BOMs Stockgroom Purchase Receive Work Order Sales Order Invoice	
Address Book	GL Transactions         Accounts Payable         Accounts Receivable         Reports         Pay Bills / Print / Clear checks         Credit Memos         Debit Memos         Chart of Accounts
Create. Edit or Delete the Ta	Tax Code Entity       New / Edit / Delete         Post Month w/ Print Einancials       Update         Enter / Edit Budget Figures       Update         Audit Iransactions       Index         Audit & Update Address Balances       If you pay multiple sales tax entities, such as multiple counties in a state or multiple states, select Tax Code Entity, New to enter the tax rates for each of these entities.         Wells Fargo Account Reconcilement       wCodes

The Tax Code Entity option allows tax code entities to be entered, edited, deleted, updated in the address book, and indexed. Tax code entities such as CA22, TX05 etc. can be entered into the sales tax code entity data base file along with the sales tax rate for that specific state and county. Selecting the option to "Update the Address Book Tax Rates" will automatically update the tax rate of each address with the tax rate for that sales tax entity code tax rate from the sales tax code entity data base file. Each sales tax code entity should consist of the 2-character name of the state plus a 2-digit number such as OR01, OR02, NY23, etc. Whenever a sales order is entered, the sales tax rate and the sales tax entity code from the address book will be entered into the sales order and invoice. (Users can enter any alphanumeric code though, which is useful for customers outside of the US.)

As an alternative solution, users can import Tax Codes by ZIP codes from a .CSV file. The .csv file should have two columns: pc/MRP Tax Codes and ZIP codes. Tax codes and Tax Rates will need to be entered into pc/MRP separately. Defaults to check the first 5 digits of US ZIP codes, but can be set to Exact match which requires a match for all 10 characters.

The Sales Tax Report in the accounting report module will automatically subtotal on the type of sale (taxable, out of state, service, etc.) and the sales tax entity code.

VFP - C:\V780 Modules Tools Optional Configuration Mag	Tax Code Ei	ntities	
		The user must have Accounting Enter/Edit or Delete Rights to edit these entries.	
Sales Tax Entities and their associated	d tax rates		×
Tax Code Tax Entity Description	State County	State Rate County Rate Local Rate Transit	Autl 🔺
CA11 ALAMEDA COUNTY	CA ALAMEDA	5.0000 3.0000 0.000 0.00	
CA12 SANTA CLARA COUNTY	CA SANTA CLARA	5.0000 2.0000 0.0000 0.00	000
			- 1
2. Enter a unique     3. Enter a Ta     Tax Entity ID     Entity Descript			
Linky Descript		the State, County, etc.	≁
			4
		6. If you are using pc/MRP's QuickBook's Interface Module, scro	-
		to the right and select the address	
		the sales taxes are to be sent to.	
			) )
New Delete	<u>x o</u>	<u>Ok</u> ance	
1. Press the New Button to enter a new Tax Entity		7. Press Ok to save ne Tax Entity(s) and Exit	
Staxent (c:\v780\staxent.dbf)	Record:	: 4/4 Record Unlocked	
BOMs       Image: Control of the second	e Alle  Clear checks  Clear checks  tint Enancials  t Figures  s	Intities	ss

## 14.1.13 Post Month with Print Financials

Post Month with Print Financials automatically retrieves each account's starting balance for that month and all of the financial transactions recorded during that month. pc/MRP then calculates the new balances for each account and will prompt users to choose from a variety of financial reports to be created based on the newly calculated figures. For complete details, see Chapter 14.6.1.

Enter the closing period         Month       7 ÷         Year       2012 ÷         FYI: This process will initialize the starting bala		Select a prior period action to perform © Reclose a prior month © Reprint a prior month(report any variand © Reprint a prior month(historical reprint) alances of month 08		
	Select the reports to be output	Report Type	Custom File	
•	Profit and Loss Report	Standard 💌		
•	Balance Sheet For Assets	Standard 💌		
☑	Balance Sheet For Liability + Equity	Standard 💌		
•	Current Month Trial Balance	Standard 💌		
Γ	Div/Dept YTD Exp-Rev Reports	~		
☑	YTD Expense and Revenue Report	Standard 💌		
•	Trial Balance Current and YTD	Standard 💌		
•	General Ledger	Standard 🔻		
◄	Transaction Report	Standard 👻		
	Show Sub-Accounts / Details Ianually step thru posting (VERY SLOW)	-	end Report to Display	

## 14.1.14 Enter/Edit Budget Figures

Allows budget figures to be entered and or edited for each month of each chart of accounts. The budget figures, their monthly and yearly variance will be displayed on the **YTD Expense and Revenue** report when you select: **Accounting, Post month w/ Print Financials** (See 3.1.17.3 for a picture of the report).

#### 14.1.15 Audit Transactions

Checks all accounting transactions for incorrect transaction dates, duplicate transaction numbers (which could cause a transaction report to go into an endless loop on that transaction number), blank transaction numbers, and duplicate blank transaction numbers (could cause transaction report to print out only lines and no transactions). The audit transaction report is completely benign; it only recommends changes and does not change or mark any transaction for deletion.

## 14.1.16 Audit and Update Address Balances

Initiating this feature will zero out the balance due amounts in the address book. The open invoices will then be used to re-calculate the balance due amounts and enter them into the address book. pc/MRP offers the option of using all open or all open posted invoices only. We recommend selecting all open invoices. If an invoice contains a blank account number or an account number that does not exist in the address book, an error message stating 'xxxx' not found will pop up for a set amount of time. pc/MRP will return to the main menu leaving the remaining address balances at 0. Since the error message remains on the screen for a set amount of time, it is recommended you watch your screen while it processes the invoices. If the error message appears, record the account number not found. Go to invoices, select edit, select scroll on address account number, enter the address account number that does not exist in the address book, and rerun this option again until it processes all invoices without an error message.

# 14.1.17 IRS Tax Forms

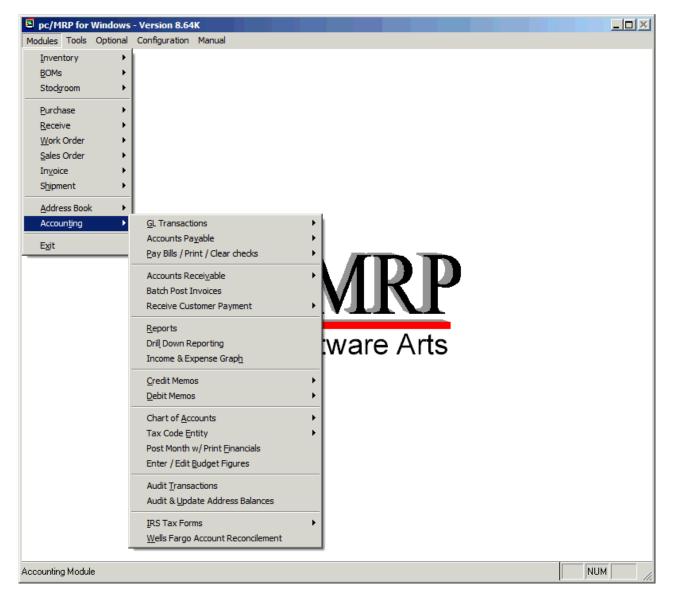
This selection allows users to set form criteria and print IRS forms 1099MISC and 1096. For further details, see Chapter 14.17.1.

# 14.1.18 Wells Fargo Account Reconcilement

This option allows users to create a file containing records for all checks written during a date range. Wells Fargo will then analyze this file and only cash checks registered through this file. For further details, see Chapter 14.18.

# 14.2 Implementing pc/MRP Accounting

# 14.2.1 Implementing pc/MRP Accounting



Implementing pc/MRP accounting requires users to perform several tasks. These tasks must be performed in sequence as described below. If you need any clarification, please contact Software Arts.

## 14.2.2 Configuring pc/MRP Accounting

Accounting must configure pc/MRP's accounting functions and chart of accounts following the steps outlined below:

- 1. Use pc/MRP's Configuration Menu to set the following options (recommended settings are underlined):
  - Select **Option 8**, to turn auto accounting on or <u>off</u>, see Manual, Section 15.1.8
  - Select Option 10, to run periodic or perpetual accounting inventory methods, see Section 15.1.10
  - Select **Option 14**, to <u>allow</u> or not allow editing of accounting transactions, see Manual, Section 15.1.14
- 2. Use pc/MRP's chart of accounts module as is or modify it to match your own so that you have a base chart of accounts that is satisfactory for your company, see Manual, Section 14.6.1

- 3. Use pc/MRP's configuration menu, **Option 9** to edit the Chart of Accounts template to match your modified chart of accounts numbers, see Section 15.1.9. If you do not plan to establish chart of accounts for sub divisions and departments, skip item 4.
- 4. If you want to establish chart of accounts for sub divisions and departments, use pc/MRP's configuration menu to do the following:
  - Select **Option 11**, to turn multi division on, see Section 15.1.11
  - Select **Option 12**, to turn set multi-div to key on product code or division, see Section 15.1.12
  - Select **Option 9**, to "Add" a new template set for a division or department. This will also automatically enter the new division chart of account numbers into the chart of accounts data base file, see Section 15.1.9
- 5. Set **Options 35, 45** and **59** in the Configuration Menu to use standard or average costs.
- 6. Set **Option 42** in the Configuration Menu to use the vendor price list.

# 14.2.3 Entering Starting Balances into pc/MRP's Accounting Module

After the Chart of Accounts has been established, the account balances must be transferred in by entering accounting transactions and not by inserting the dollar amounts directly into the Chart of Accounts. To enter the starting balances, select: Accounting, GL Transactions, New and then select an "A" type transaction. Debit the debit accounts and credit the credit accounts as per following guidelines.

If no previous accounting program has been used:

- Debit all assets such as cash, checking, accounts receivable, equipment, prepaid expenses, etc. by entering A type accounting transactions.
- Credit all liabilities such as taxes payable, accts payable, notes payable, etc. by entering A type accounting transactions.
- If Debits > Credits, credit the difference to Starting Capital
- If Credits > Debits, debit the difference to Starting Capital

If you are switching from another accounting system, you must transfer over the ending balances from the last good close by entering A type transactions with the same date as the last good close. The accounts you would transfer over would be as follows:

- If Mid Period:
  - Transfer all accounts from the trial balance.
- If Start of Period:
  - o Transfer all liability, asset, equity accounts from the trial balance.
  - If you want year-to-date expense and revenue figures on your financial statements, you must also transfer all expense and revenue accounts from the trial balance.
- If Start of Year:
  - Transfer all liability, asset, and equity accounts from the trial balance. Remember to make an entry with the new years date transferring the year-to-date earnings into starting capital or undistributed retained earnings

At this point you can close the month to see if the debit and credit totals are equal and match the totals from the last good close of the prior accounting program.

**Note:** If these are the first accounting entries and the first period you are closing because you are just starting to use pc/MRP's accounting package, you must delete the file named "**LASTCLOS.MEM**" in the pcmrpw directory.

# 14.2.4 Entering AP (Open Receivers) and AR (Open Invoices) Detail Into pc/MRP

If you wish to enter detail aging information for accounts receivable (open unpaid invoices):

- Make sure auto-accounting has been turned off in the configuration menu, so that you do not double up on debiting accounts receivable.
- Temporarily set the inventory adjustment method (Option 4 in the Settings and Utilities) to "S." This will allow you to enter invoices without adjusting inventory. While you are making these entries do not allow other people to use the other modules in pc/MRP. When you are finished making the entries return to Option 4 and change the method back to the original setting, "A."
- Use the Sales Module to enter each open unpaid invoice as an "On Account and Carry Sales Order". This will automatically create an invoice as well. Make sure the invoice date is the date you originally invoiced the customer, as this will keep your aging reports correct.
- Once you have entered all open invoices, run an invoice (not sales order) report for all open invoices (Select Invoices, Reports, All Invoices, All Open Invoices). The total should match the \$ amount entered as the accounts receivable amount when you entered your original starting balances.
- Once the accounts receivable numbers agree, enter all open (not invoiced) sales orders using the "Order Entry" Option when entering sales orders.

If you wish to enter detail aging information for accounts payable (open unpaid receivers):

Method 1, enter POs and Receivers

- Make sure auto-accounting has been turned off in the configuration menu, so that you do not double up on crediting accounts payable.
- Temporarily set the inventory adjustment method (Option 4 in the Settings and Utilities) to "S." This will allow you to enter receivers without adjusting inventory. While you are making these entries do not allow other people to use the other modules in pc/MRP. When you are finished making the entries return to Option 4 and change the method back to the original setting, "A."
- Use the Purchase Module to enter each closed (received) but unpaid PO. Edit the PO date to reflect the date you originally placed the order.
- Use the Receiver Module to enter each open (unpaid) Receiver. Edit the receiver date to reflect the date you received the order, as this will keep your aging reports correct.
- Once you have entered all open receivers, run a receiver report for all open receivers (Select Receivers, Reports, All Receivers, and All Open Receivers). The total should match the \$ amount entered as the accounts payable amount when you entered your original starting balances.
- Once the accounts payable numbers agree, enter all open (not received) purchase orders using pc/MRP's purchase order module

Method 2, Enter accounts payable vouchers without part number detail

- Use pc/MRP's Accounts Payable Module to enter accounts payable vouchers. For each invoice, enter an accounts payable voucher. Enter or scroll for the vendors address id code number. If you do not want to record part numbers, select None for part number, 1 for quantity received and the total amount of the invoice. Make sure the date received is the date you received the item(s).
- Since this method would automatically make entries into the general ledger, debiting purchases and crediting accts payable, you may have to edit the original trial balance entry to \$0.00 for accounts payable. Re-close the current month and make sure your accounts payables account dollar amount is correct.
- When you pay off any of these vouchers, you would enter a general ledger transaction as an E type transaction, answer Y, there is an existing receiver/accounts payable voucher number. Enter the voucher number and allow the program to debit accounts payable and credit checking. pc/MRP will then ask if you wish to print a check, answer Y if you wish pc/MRP to do so.

# 14.2.5 Automatically closing all Receivers that have been paid

If you have been entering receivers into pc/MRP but not using accounting transactions to close the receivers, your accounts payable detail reports would show a large amount of dollars owed. You can close a large quantity in a batch mode by doing the following:

If you have entered receivers into pc/MRP and have been closing them when they are paid, run this step as a double check on your AP. It will also open up any receiver with a partial payment so the entire receiver can be paid off at a later date.

Selecting Configuration, Settings and Utilities, **Option 87** will display the Receiver Closer Screen shown below.

Receiver Closer				
Receiver# 000001	Vendor Inv	VI000001	Subtotal:	1435.6000
Account Id BBC001	Date	11/09/2002	Paid:	0.0000
Company			Debit Memo:	0.0000
BBC MANUFACTURING C	OMPANY	Complete	Total:	1435.6000
Receiver# 000002	Vendor Inv	VI000002	Subtotal:	24.0000
Account Id BBC001	Date	11/09/2002	Paid:	0.0000
Company			Debit Memo:	0.0000
BBC MANUFACTURING C	OMPANY	Complete	Total:	24.0000
Close up to a <u>D</u> ate Complete <u>A</u> ll	Open Recei AP w Debit Open Debit		emo Totals 1459.6000 0.0000	<u>O</u> k <u>C</u> ancel

This screen allows you to close any receivers that have been paid by simply checking the Complete Checkbox for each receiver that has been paid off. Only receivers that are not marked complete and have a vendor invoice number will be included in the AP w Debit Memos Total. This screen will display the first vendor invoice number it finds in a receiver. If you enter a vendor invoice number into a receiver or it already has a vendor invoice number, every line item on that receiver will be populated with that vendor invoice number when you press the OK button.

The AP total is equal to the amount due - amount paid for the following receiver line items and debit memos:

- All open receivers and debit memos with vendor invoice numbers.
- If one or more line items in a receiver /debit memos are marked as open, all the line items and associated debit memos are temporarily marked as open and are included in the AP total.

Scroll the receivers and check the Complete check box for all paid receivers and debit memos and add the vendor invoice number to all receivers that you wish to export (if your company uses the QuickBooks Export Module), until the AP with Debit Memo Total is correct.

If you check a receiver as complete, the entire receiver will be marked as complete by inserting a capital Y into the complete field of every line item on that receiver. This reduces the AP amount by the entire amount of the receiver (unless the amount due - amount paid equals 0). Receivers marked as complete will never be included in your accounts payable reports.

Pressing the Cancel button will leave the receivers unchanged. The receiver complete and posted fields will remain as they were prior to entering this screen.

Pressing the OK button will change the receiver complete fields as per the changes you made with the closer.

# 14.2.6 Automatically closing all Invoices that have been paid

If you have been entering invoices into pc/MRP but not using accounting transactions to close the invoices, your accounts receivable detail reports would show a large amount of dollars owed. You can close a large quantity in a batch mode by doing the following:

If you have entered invoices into pc/MRP and have been closing them when they are paid, run this step as a double check on your AR. It will also open up any invoice with a partial payment so the entire invoice can be paid off at a later date.

Selecting Configuration, Settings and Utilities, **Option 87** will display the Invoice Closer Screen shown below.

Invoice Closer			
Invoice # 000001 Account Id ABC001 Company ABC MANUFACTURING C	Date 10/11/2002 Subtotal: Paid: Credit Memo: OMPANY Total:	0.0000	► Posted
Invoice # 000002 Account Id ABC001 Company ABC MANUFACTURING C	Date 10/11/2002 Subtotal: Paid: Credit Memo: OMPANY Total:	0.0000	✓ Posted Complete
Close up to a <u>D</u> ate Complete <u>A</u> ll <u>P</u> ost All	Open Invoice and Open Credit AR w Credit Memos: Open Credit Memos:	Merno Totals 4700.0000 -20.0000	<u>O</u> k <u>C</u> ancel

The AR total is equal to the amount due - amount paid

(((SalePrice\*QtyShip\*(1-(Discount/100))\*(1+(TaxR/100.0000))+Freight)-AmtPaid) for the following invoice line items and credit memos:

- All open invoices and credit memos.
- If one or more line items in an invoice/credit memo are marked as open, all the line items and associated credit memos are temporarily marked as open and are included in the AR total.

Scroll the invoices and check the Complete check box for all paid invoices and credit memos until the AR with Credit Memo Total is correct. If you check an invoice as complete, the entire invoice will be marked as complete by inserting a capital Y into the complete field of every line item for that invoice. This reduces the AR amount by the entire amount of the invoice (unless the amount due - amount paid equals 0). Invoices marked as complete will never be included in an AR Report.

Pressing the Cancel button will leave the invoices unchanged. The invoice complete and posted fields will remain as they were prior to entering this screen.

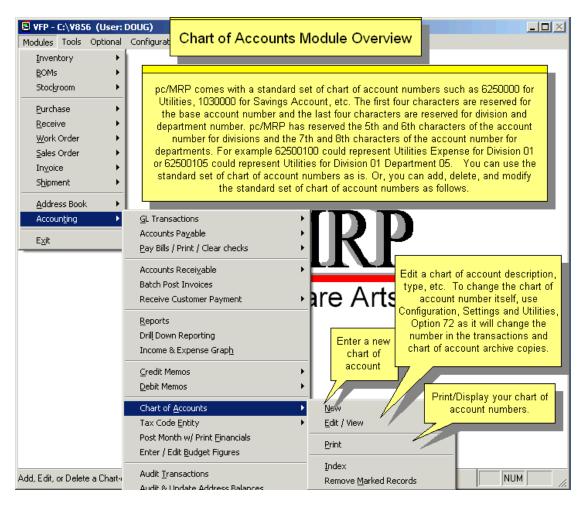
Pressing the Ok button will change the invoice complete fields as per the changes you made with the closer.

## **14.2.7** Post the Month with Financials

Before going live, make sure you have a good close. To learn how to close the month and Post the month with financials, refer to Section 14.6.1.

# 14.3 Chart of Accounts

## 14.3.1 Overview / Enter



(see slideshow here: http://www.pcmrp.com/mrp101/chartofaccountsnewbase.htm)

pc/MRP comes with a standard set of chart of account numbers such as 62500000 for Utilities, 10300000 for Savings Account, etc. The first four characters of the account number are reserved for the base account number, the 5th and 6th characters of the account number for divisions and the 7th and 8th characters for departments. For example 62500100 could represent Utilities Expense for Division 01 or 62500105 could represent Utilities for Division 01 Department 05.

You can use the standard set of chart of account numbers as is. Or, you can add, delete, and modify the standard set of chart of account numbers as described on the next page.

Notes:

- pc/MRP allows divisional and category sub accounts.
- You can add a base divisional chart of accounts by clicking on Chart of Accounts New
- You can add a divisional sub account to report to a base corporate chart of account (ends in 0000)
- You can select a divisional sub account as a parent account.
- The Div/Dept YTD Expense and Revenue reports work with div sub accounts that have 0000 parent accounts.
- Users can select a divisional sub account as a default account in the Account Template Module (unless a file named **RESTRICTCHART.FLG** exists in the pcmrpw folder).

#### 14.3.1.1 Establish a base chart of accounts structure on paper

First establish a base chart of accounts structure on paper. Base accounts must end in "0000" and do not report to a parent account. An example of a base chart of account structure is listed below:

Assets 1020-0000 Checking 1070-0000 Accounts Receivable Liabilities 2010-0000 Loan 2070-0000 Accounts Payable Equities 3040-0000 Retained Earnings Revenue 4040-0000 Sales Income Expenses 5000-0000 Utilities

#### 14.3.1.2 Establish a set of sub-chart of account numbers on paper

pc/MRP allows you create sub-chart of account numbers that report to and roll up into a parent chart of account numbers. There are two types of sub accounts, category and divisional.

**Category Sub Accounts** should always end in 0000. An example chart of accounts using category sub-accounts is listed below:

Assets

1020-0000 Checking 1021-0000 Wells Fargo Checking 1022-0000 Bank of America Checking 1070-0000 Accounts Receivable Liabilities 2010-0000 Loan 2070-0000 Accounts Payable Equities 3040-0000 Retained Earnings Revenue 4040-0000 Sales Income Expenses 5000-0000 Utilities 5040-0000 Water 5050-0000 Electricity **Division Sub Account** should always end in a 4 digit number other than "0000". This allows pc/MRP to filter these accounts into Divisional YTD Expense and Revenue Reports. An example chart of accounts using category sub-accounts is listed below:

Assets 1020-0000 Checking 1020-0100 Checking Division 1 1020-0200 Checking Division 2 1070-0000 Accounts Receivable Liabilities 2010-0000 Loan 2070-0000 Accounts Payable Equities 3040-0000 Retained Earnings Revenue 4040-0000 Sales Income 4040-0100 Sales Income Division 1 4040-0200 Sales Income Division 2 Expenses 5000-0000 Utilities 5000-0100 Utilities Division 1 5000-0200 Utilities Division 2

Gets filtered into a YTD Expense and Revenue Financial Statement for Division 1

**Including** <u>both</u> **Divisional and Category Sub Accounts** in your chart of accounts can be done two ways. The first way would be to create sub accounts by division and then category. This structure will show the rolled up Utilities Cost for the Divisional YTD Expense and Revenue Report:

Expenses

5000-0000 Utilities 5000-0100 Utilities Division 1 (Will be displayed on the Div1 YTD Exp and Rev Report) 5040-0100 Water Div 1 5050-0100 Electricity Div 1 5000-0200 Utilities Division 2 5040-0200 Water Div 2 5050-0200 Electricity Div 2

Gets filtered into a YTD Expense and Revenue Financial Statement for Division 1

The second way would be to create sub accounts by category and then division. This structure will not display the rolled up Utility Cost for the Division on the Divisional YTD Expense and Revenue Report.

Expenses 5000-0000 Utilities 5040-0000 Water 5040-0100 Water Div 1 5040-0200 Water Div 2 5050-0000 Electricity 5050-0100 Electricity Div 1 5050-0200 Electricity Div 2

Gets filtered into a YTD Expense and Revenue Financial Statement for Division 1

Both of the above patterns will work in pc/MRP.

## 14.3.1.3 Entering a set of base chart of account numbers

You must first enter a set of base chart of account numbers such as checking, utilities, etc. Base chart of account numbers have no parent accounts and always end in 0000. To enter a base chart of account number, click on Modules, Accounting, Chart of Accounts, and New.

VFP - C:\V85 Modules Tools	Establish your Base Chart of Assount Numbers
	<ul> <li>Account # 12110000</li> <li>Acct Type</li> <li>Account # 12110000</li> <li>Acct Type</li> <li>Account # 12110000</li> <li>Acct Type</li> <li>Account is marked as Inactive, it will be highlighted in yellow in the chart of accounts scroll window.</li> </ul>
	Period     Period </td
	Period 04       Period 05         Period 06       Period 07         Period 08       Period 09         Period 10       Settings and Utilities, Option 72 as it must be changed everywhere, transactions, archive
credited, use	t of account has been debited or ers will no longer be able to edit Type or Debit and Credit Status. Record: 1/12 6. Press Save and Exit NUM

Enter the base chart of accounts number (it must end in "0000"). Enter the chart of accounts description, Account Type, select Yes or No for Tax Deductible, and select Debit or Credit. Do not select a parent account, as this is a base chart of account.

**Note**: If <u>upgrading from version **8.47** or lower</u>, please re-visit the checking accounts and make sure the Checking Account checkbox is checked for all your checking accounts.

Select the **Account Type** from the drop down list box which includes:

- AC Asset, Current
- AD Asset, Depreciation
- AF Asset, Fixed
- AL Asset, Long Term
- EG Expense Cost of Goods Sold
- EL Expense Labor
- EN Expense, Normal Operating
- EO Expense, Other
- ET Expense, Taxes
- EW Expense, Write Off
- LC Liabilities, Current
- LL Liabilities, Long Term
- QN Equity
- QR Equity, YTD Retained Earnings (only one allowed!)
- RN Revenue, Normal
- RO Revenue, Other

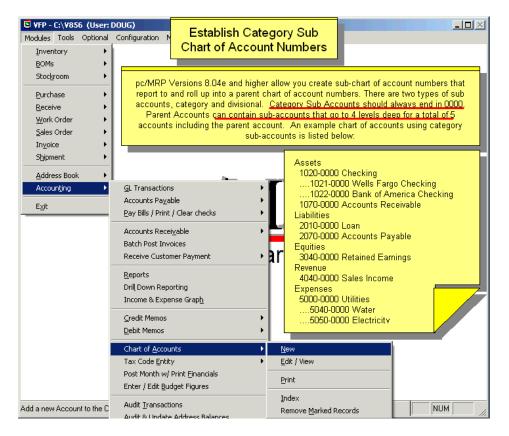
**Note:** Once you have selected an Account Type, and have entered accounting transactions for the account, you cannot change the Account Type. Call Software Arts, Inc. if this is a necessity.

# **Company Credit Card account**

pc/MRP for Windows - Version 8.73 If you wish to pay bills using you	Establish your Base Chart of Account Numbers
company credit card, create one or more company cc accounts. Requires 8.72U, 8.73D or higher	1. Enter the account number     4. Select Account Type is LC and a Credit Account, you can mark the account as a Credit Card Account.
	000 Acct Type C - Account is inactive
of Ac Period ▶Period 01	inter the new Chart coounts Description inding Bal Budget 0.00 0.00 0.00
Period 02 Period 03 Period 04 Period 05 Period 06 Period 07 Period 08 Period 09 Period 10 Period 11 Period 12	<ul> <li>When paying receivers and AP vouchers with an E (Expense), P (Cash Purchase), or Pay Bills, pc/MRP will allow you to select a checking or company credit card account (the Check number will will contain "cc"). pc/MRP will credit your credit card account and debit AP. Later, use an A Type Adjusting Transaction to pay off the credit card bill, credit checking, debit company credit card. The A Type Transaction will offer to print the check. pc/MRP will report expenses paid to vendors by check or credit card on the 1099 report.</li> <li>If you receive a credit card bill where several companies auto charge your card and there is no prior purchase order / receiver or AP voucher use the method described in the 12.22 Accounting - Paying Credit Card Bills Slide Show.</li> </ul>
Periodchart	Save/Exit Cancel Record: 1/12 6. Press Save and Exit

## 14.3.1.4 Entering Category Sub Chart of Account Numbers

To create a sub-chart of account number you would select Modules, Accounting, Chart of Accounts, New or Edit.



Select the parent account by pressing the "Sub Account of" Ellipsis Button as shown on the screen below.

pc/MRP for Windows - Vers <u>Modules</u> Tools Optional Config	Establish Category Sub Cha Account Numbers	art of
Chart of Accounts  Account #  Acct Type  Tax  Sub Account of	Description Acco	To enter a new Sub Chart of Account mber that reports to a Parent Chart of ount Number, click on the Button to ocate the Parent Chart of Account.
P P P P P Go <u>T</u> op P Go Bottom	ed Search (Fastest) Sort Order 2. Enter the Parent Chart of Accounts	Queried Search Iude accounts Search Button
P         ACCOUNT           P         6230000           6240000         6250000           P         6350000           7010000	DESCRIPTION TELEPHONE TELECOMUNICATIONS UTILITIES OPERATING EXPENSE DEPRECIATION EXPENSE	TYPE BALAN         EN         Ok         Cancel
List of applicable records		NUM //

The new sub-account will automatically be the same Account Type and Debit/Credit Type as its parent account.

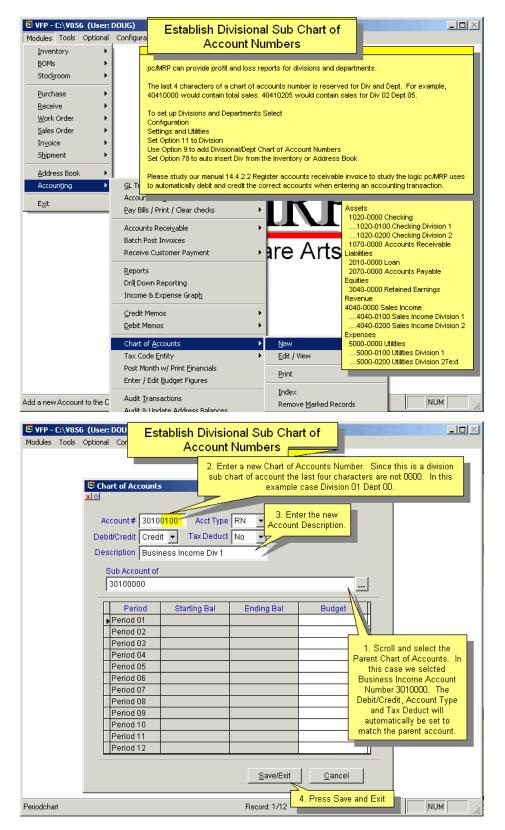
VFP - C:\V8 Modules Tool	- SI2	ıblish Catego	ry Sub Chart	of Accoun	t Numbers
	Chart of Accounts	2.E			nber. Since this is a category ur characters are 0000.
	Account # 6251 ebit/Credit Debit Description Electr Sub Account of 62500000	Tax Deduct	EN Accor	Enter the new ant Description.	Since this is a sub account the Acct Type, Debit/Credit and Tax Deduct Fields will automatically match the parent account.
	Period	Starting Bal	Ending Bal	Budget	
	Period 02 Period 03 Period 04				1. Scroll and select the
	Period 05 Period 06 Period 07				Parent Chart of Accounts. In this case we selcted Utilities Account Number 6250000.
	Period 08 Period 09				The Debit/Credit, Account Type and Tax Deduct will automatically be set to
	Period 10 Period 11				match the parent account.
account numbe account if the transactions. ChartEdit.scx 1	child account has a l TxtFullid.Refresh() ccount(RIGHT(ALLTF	ild account of a parent	<u>Save/Exit</u>	<u>Cancel</u> 4. Press Save a	and Exit

The picture below shows the new record in the Chartacc.dbf file. The FullId field is used by the program.

Dec/MRP for Windo Modules Tools Option	Establish Categ	jory Su	b	Chart of Accou	nt Numbers	
Parent		The Fu	llld	field is used by the pr	cord in the ChartAcc.c ogram. The Displaya counts in an indented	cc field
Number	Command Line					×
Corvin and Line	Work Area Rec	ord #		Table	Index File	
Expacent	Descript	Acctype	Dc	Fullid	Displayacc	
62500000 UTILITIE	S	EN	D	62500000	62500000	
62510000 Electricit	у	EN	D	62500000:62510000	62510000	
Child Acct Nu	Inter the Command St	cript to be I	Exe	Parent Acct +":"+ u	Child Acct 4 Space	es + Child Acct
browse fields expaccnt,descript,acctype,dc,fullid,displayacc						
	<u>B</u> rowse <u>Eile</u>	Explorer		Exect	ute <u>C</u> ancel	
Chartace (c:\pemrpw905\cha	rtacc.dbf)			Record: 1/86	Record Unlocked	NUM

# 14.3.1.5 Entering Divisional Sub Chart of Account Numbers.

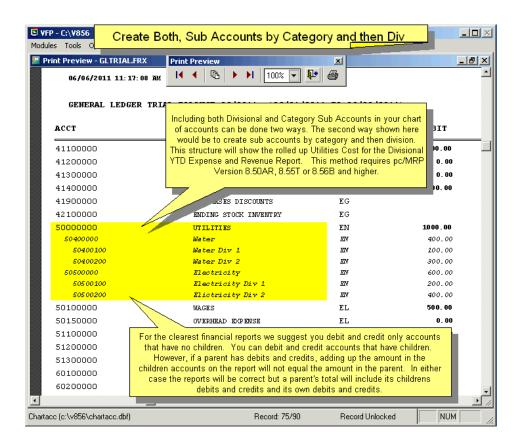
To create Divisional sub-chart of account number you would select Modules, Accounting, Chart of Accounts, New or Edit.



#### 14.3.1.6 Create Both Sub Accounts by Div and then Category

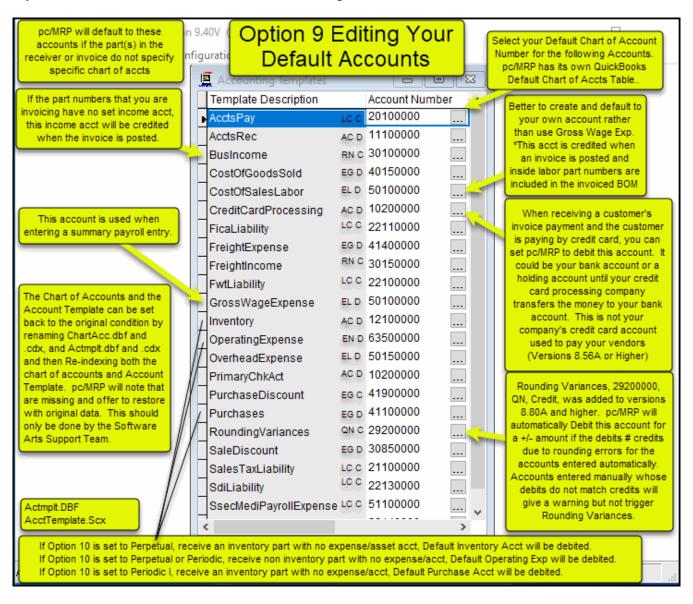
lules Tools O		ub Accounts by Div and	then C	ategory		
Print Preview - CHART.FRX	Print P	review   🖪 🕨 🕨   100% 💽 🏴				
		g both Divisional and Category Su t of accounts can be done two wa				
		here would be to create sub accou				
		tegory. This structure will show th			NTS	
RAD TECH	This	r the Divisional YTD Expense and method requires pc/MRP Version				PAG
06/03/2011 03:02:	23 P 1115	method requires power version	0.45 and i	ngrier.		CHA
ACCOUNT					DEBIT/CRE	DIT
41900000		PURCHASES DISCOUNTS	EG	Y	С	
42100000		ENDING STOCK INVENTRY	EG	Y	С	
5000000		UTILITIES	EN	Y	D	
50000100		Utilities Div 1	EN	N	D	
50400100		Water Div 1	EN	N	D	
50500100		Electricity Div 1	EN	N	D	
50000200		Utilities Div 2	EN	N	D	
50400200		Water Div 2	EN	N	D	
50500200	~	Electricity Div 2	EN	N	D	
50100000		WAGES	EL	Y	D	
50150000		OVERHEAD EXPENSE	EL		D	
51100000	For the clear	est financial reports we suggest y	ou debit ar	d credit on	ly accounts	
51200000	that have n	o children. You can debit and cred	dit account	s that have	children.	
51300000		if a parent has debits and credits				
60100000		ounts on the report will not equal the ports will be correct but a parent's				
		dehits and credits and its own o		111		

## 14.3.1.7 Create Both Sub Accounts by Category and then Div



## 14.3.1.8 Register your default account numbers.

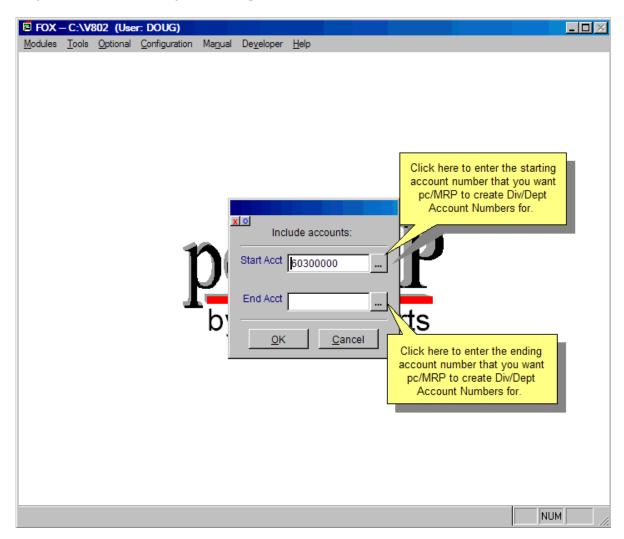
Once your base chart of account numbers are established, you must register your default account numbers with pc/MRP. This will allow pc/MRP to automatically pull up the correct accounts to debit and credit when you are making an entry into the general ledger. For example, pc/MRP needs to automatically pull up and debit and credit your AP and Checking Account Numbers when ever you are paying bills. To register your key chart of accounts select Configuration, Settings and Utilities, **Option 9**, and Edit Template Account Numbers. Enter your key chart of account numbers as shown on the following screen.



## 14.3.1.9 Adding multiple division and department account numbers:

With pc/MRP, you can enter divisional chart of accounts one account at a time by selecting Modules, Accounting, Chart of Accounts, New. If applicable, you can add new divisions or departments to pc/MRP's chart of accounts. pc/MRP has reserved the 5th and 6th characters of the account number for divisions and the 7th and 8th characters of the account number for departments.

For example if you wanted to add expense and revenue accounts for a division 10, department 01, you would select configuration, Settings and Utilities, **Option 9**, Add a New Division/Department. pc/MRP will ask you to enter the starting chart of account number (must end on 0000) and the ending chart of account number (must end in 0000). pc/MRP will create new chart of accounts ending in 1001 for every account that ends in 0000 between the starting number and the ending number as per the screen shown in the screen below.



## 14.3.2 Edit/View a Chart of Accounts

Editing or adding chart of account numbers is not recommended unless you fully understand accounting, and how pc/MRP operates with the chart of account numbers. pc/MRP will not accept any changes made to accounts that have dollar amounts posted to them.

If you edit one of the base chart of account numbers, such as AR, AP, Checking, etc., you must also go to pc/MRP's configuration menu and make the same change in the chart of accounts template file.

To edit a chart of account number users must use **Option 72** in the Settings and Utilities Menu as this will change the account number everywhere including the prior backup copies made by pc/MRP after you close (post) a month.

	- Version 9.33A Chart of Accounts
Modules Tools Optional	Configuration Manual Edit / View / Delete
<u>B</u> OMs ►	
Stockroom •	
Purchase  Receive	
Work Order	
Sales Order	
In <u>v</u> oice S <u>h</u> ipment	
Accounting	GL Transactions
E <u>x</u> it	Accounts Payable
	Batch Post Receivers Pay Bills / Print / Clear checks
	Accounts Receivable 'are Arts
	Receive Customer Payment
	Reports
	Drill Down Reporting Income & Expense Graph
	Debit Memos
	Chart of Accounts
	Tax Code Entity  Post Month w/ Print Einancials
View or Edit an Account on I	Enter / Edit Budget Figures
pc/MRP for Windows Modules Tools Optional	- Version 9.33A Configuration Manual Chart of Accounts Delete
	Delete
Chart of Accounts	
Chart of Accounts	
Chart of Accounts	
	Acct Type AC  Account is inactive
Account# 1010	0000     Acct Type     AC     Account is inactive       t     Tax Deduct     No     This is a Checking Account
Account # 1010 Debit/Credit Debi	0000     Acct Type     AC     Account is inactive       t     Tax Deduct     No     This is a Checking Account       H ON HAND     HON HAND     HON HAND
Account # 1010 Debit/Credit Debi Description CASE Sub Account of	0000     Acct Type     AC     Account is inactive       t     Tax Deduct     No     This is a Checking Account       H ON HAND     Hon HAND     Hon HAND
Account # 1010 Debit/Credit Debi Description CASE Sub Account of	Acct Type AC  Account is inactive  Account is inactive  Account is a Checking Account  ON HAND  In order to delete a chart of accounts:  You must have delete rights to the accounting module
Account # 1010 Debit/Credit Debi Description CASH Sub Account of Period Period 01	0000       Acct Type       AC       Account is inactive         I       Tax Deduct       No       This is a Checking Account         H ON HAND       In order to delete a chart of accounts:       1. You must have delete rights to the accounting module         1. You must have delete rights to the accounting module       2. You must be in the Edit and not in the View Mode
Account # 1010 Debit/Credit Debi Description CASI Sub Account of Period 01 Period 02 Period 03	Acct Type AC Account is inactive Account is inactive Account is inactive Account is inactive Tax Deduct No Account This is a Checking Account No HAND No HAND No rder to delete a chart of accounts: You must have delete rights to the accounting module You must have delete rights to the accounting module You must be in the Edit and not in the View Mode If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdit.Scx, ChkAccount.prg):
Account # 1010 Debit/Credit Debi Description CASI Sub Account of Period 01 Period 01 Period 03 Period 04	Acct Type Account is inactive Tax Deduct No
Account # 1010 Debit/Credit Debi Description CASI Sub Account of Period 01 Period 01 Period 02 Period 03 Period 04 Period 05 Period 06	Acct Type AC Account is inactive Account is inactive Account is inactive Account is inactive Tax Deduct No Account This is a Checking Account No HAND Account No Heck Account No Accounts No order to delete a chart of accounts: You must have delete rights to the accounting module You must have delete rights to the accounting module You must be in the Edit and not in the View Mode If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdit.Scx, ChkAccount.prg) This chart of accounts has transactions against it (ChkAccont.prg) This chart of accounts has sub accounts that must be deleted first This chart of accounts had div or dept accounts that must be deleted first
Account # 1010 Debit/Credit Debi Description CASI Sub Account of Period 01 Period 01 Period 03 Period 04 Period 05	Acct Type Account is inactive Tax Deduct No Christian Checking Account HON HAND In order to delete a chart of accounts: 1. You must have delete rights to the accounting module 2. You must be in the Edit and not in the View Mode If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdit Scx, ChkAccount.prg): 1. This chart of accounts has transactions against it (ChkAccount.prg) 2. This chart of accounts has the account that must be deleted first 3. This chart of accounts had div or dept accounts that must be deleted first 3. This chart of accounts for deletion, you must: Set an Admin Lockout
Account # 1010 Debit/Credit Debit Description CASI Sub Account of Period 01 Period 02 Period 03 Period 04 Period 05 Period 06 Period 08 Period 09	Acct Type AC     Acct Type AC     Account is inactive     Account is inactive     Tax Deduct No     Acct Type AC     Tax Deduct No     This is a Checking Account     This is a Checking Account     ON HAND  In order to delete a chart of accounts:     You must have delete rights to the accounting module     You must have delete rights to the accounting module     You press the Delete Button it will either mark the account for deletion or display the following messages as to     why it can not mark this record for deletion (CharEdit,Scx, ChkAccount, prg):     This chart of accounts has transactions against it (ChkAccont, prg)     This chart of accounts has div or dept accounts that must be deleted first     This chart of accounts had div or dept accounts that must be deleted first     Once you mark a chart of accounts for deletion, you must:
Account # 1010 Debit/Credit Debit Description CASI Sub Account of Period 01 Period 01 Period 02 Period 03 Period 04 Period 05 Period 06 Period 07 Period 08	Acct Type AC Acct Type AC Account is inactive Account is inactive Account is a Checking Account Tax Deduct No Chine This is a Checking Account ON HAND  In order to delete a chart of accounts: You must have delete rights to the accounting module You must have delete rights to the accounting module You must be in the Edit and not in the View Mode  If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdit Scx, ChkAccount, prg): This chart of accounts has transactions against it (ChkAccont, prg) This chart of accounts had div or dept accounts that must be deleted first This chart of accounts had div or dept accounts that must be deleted first Once you mark a chart of accounts for deletion, you must: Set an Admin Lockout Select Modules
Account # 1010 Debit/Credit Debit Description CASI Sub Account of Period 01 Period 02 Period 03 Period 04 Period 04 Period 05 Period 06 Period 07 Period 08 Period 09 Period 10 Period 12	Acct Type Acct Type Account is inactive Tax Deduct No Charles a Checking Account H ON HAND In order to delete a chart of accounts: 1. You must have delete rights to the accounting module 2. You must be in the Edit and not in the View Mode If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdt.Scx, ChkAccount.prg): 1. This chart of accounts has transactions against it (ChkAccount.prg): 2. This chart of accounts has tansactions against it (ChkAccount.prg): 2. This chart of accounts has that must be deleted first 3. This chart of accounts for deletion, you must: Set an Admin Lockout Set Modules Accounting Chart of Accounts
Account # 1010 Debit/Credit Debit Description CASI Sub Account of Period 01 Period 02 Period 03 Period 04 Period 04 Period 05 Period 06 Period 07 Period 08 Period 09 Period 10 Period 12	Acct Type C Acct Type Account is inactive Tax Deduct No C Inis is a Checking Account I on HAND In order to delete a chart of accounts: 1. You must have delete rights to the accounting module 2. You must be in the Edit and not in the View Mode If you press the Delete Button it will either mark the account for deletion or display the following messages as to why it can not mark this record for deletion (CharEdit, Sex, ChkAccount prg): 2. This chart of accounts has sub accounts that must be deleted first 3. This chart of accounts had div or dept accounts that must be deleted first 3. This chart of accounts had div or dept accounts that must be deleted first 3. This chart of accounts for deletion, you must: Set an Admin Lockout Select Modules Accounting Chart of Accounts Remove Marked Records
Account # 1010 Debit/Credit Debit Description CASH Sub Account of Period 01 Period 02 Period 03 Period 04 Period 04 Period 05 Period 06 Period 07 Period 08 Period 09 Period 10 Period 11 Period 12	Acct Type Acct Type Account is inactive     Tax Deduct No     Tax Deduct No

## 14.3.3 COA Categories and Rules

The chart of account numbers have been divided into five different categories listed below.

CATEGORY	EXAMPLES	NUMBERS	TYPE	DED	D/C
ASSET	+(cash, recvbls, inventory, advances, equip)	1000	Ax	N	D
LIABILITY	<pre>-(depreciation, allowance for bad accounts) +(accounts pay, loans pay, taxes payable) -(repayment of loan)</pre>	2000	Lx	Ν	C C D
EQUITY	+(stock issued, capital in, ret. earnings) -(capital withdrawal by owner)	2500	Qx	Ν	C D
REVENUE	+(interest income, sales) -(sales discounts allowed, returned merch.)	3000	Rx	Ν	C D
EXPENSES	+(rent, wages, supplies, taxes) -(purchase discounts taken, taxes refund)	4000	Ex	Y	D C
EG AC EL AC EN AC EW AC EO AC	counts are categorized as follows: counts will be totaled under Cost of Goods counts will be totaled under Cost of Labor counts will be totaled under Normal Operati counts will be totaled under Write off Expe counts will be totaled under Other Expenses counts will be totaled under Income Taxes	ng Expen nses	ses		
RN Ac	ccounts are categorized as follows: ccounts will be totaled under Revenue ccounts will be totaled under Other Revenue				
QN Ac	counts are categorized as follows: ccounts will be totaled under Equity ccount is reserved for YTD Retained Earnings (only one QR account is allowed)	i			
LC Ac	Accounts are categorized as follows: ccounts will be totaled under Current Liabil ccounts will be totaled under Long Term Liab				
AF AC AC AC AL AC	ounts are categorized as follows: counts will be totaled under Fixed Assets counts will be totaled under Current Assets counts will be totaled under Long Term Asse counts will be totaled Accum Write Offs				

pc/MRP's Chart of accounts are further defined as follows:

22110000 22120000 22130000 22140000 22150000 22160000 29100000	PAYROLL TAX F.W.T. PAYROLL TAX F.I.C.A PAYROLL TAX F.U.T.A PAYROLL TAX S.D.I. PAYROLL TAX S.W.T. PAYROLL TAX S.U.I. PAYROLL TAX E.T.T. COMPANY TAXES COMPANY TAX-FEDERAL	<ul> <li>= liability, federal withholding tax</li> <li>= liability, federal social security</li> <li>= liability, federal unemployment tax</li> <li>= liability, state disability</li> <li>= liability, state withholding</li> <li>= liability, state unemployment</li> <li>= liability, state employment training</li> <li>= taxes paid by individual owner</li> <li>= taxes paid by corporation</li> </ul>
--	--	--

## pc/MRP Chart of Account Structure Rules

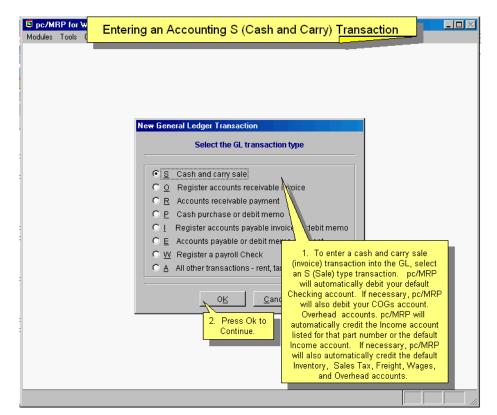
	Top Chart of Account Number
Has no pare The full acc Div/Dept su	nt account count number must be unique iffix of any 4 numbers. If <b>RESTRICTCHART.FLG</b> file exists in pcmrpw directory, suffix must = 0000
	evel Sub Chart of Account Numbers
	vel parent account
	ount number must be unique ab Acct must have a suffix that matches the parent suffix unless the top parent suffix = 0000
	ne account type a parent
	ild debit/credit accounts do not have to match
Example:	
Utilities (	
U	tilities Div 1 (2 <sup>nd</sup> ) 6250 0100
	Water Div 1 (3 <sup>rd</sup> ) 6251 0100
	Electricity Div 1 $(3^{rd})$ 6252 0100
U	tilities Div 2 (2 <sup>nd</sup> ) 6250 0200 Water Div 2 (3 <sup>rd</sup> ) 6251 0200
	$\begin{array}{l} \text{Water Div 2 (3^{-1})} & 6251 0200 \\ \text{Electricity Div 2 (3^{rd})} & 6252 0200 \end{array}$
	Electricity Div $2(5)$ $6252 0200$
Edit a Chart of A	
	art of Account Number Field
	Iust be done with Option 72
	art of Account Description Field K
	count Type Field
	Iust have no existing transactions
	lust have no existing sub accounts
	lust have no twin div/dept accounts
	bit/Credit Field
Ν	lust have no existing transactions
Ν	lust have no existing sub accounts
	lust have no twin div/dept accounts
Edit the Ful	
	lust have no existing transactions
	Iust have no existing sub accounts
IV.	lust have no twin div/dept accounts
	se Chart of Account
	to transaction history
	no sub accounts (sub accounts must be deleted first)
Must have i	no Div/Dept Accounts (Div/Dept accounts must be deleted first)
Delete a Base Su	b Chart of Account
	transaction history
	no sub accounts (sub accounts must be deleted first)
Must have r	no Div/Dept Accounts (Div/Dept accounts must be deleted first)
Delete a Top Div	/Dept Chart of Account
	transaction history
	no sub accounts (sub accounts must be deleted first)
	ot Chart of Accounts
	to transaction history
Must have	no sub accounts (sub accounts must be deleted first)
.3.4 Index (see	15.14.3)

## 14.3.5 Remove Marked Records (see 15.14.4)

# 14.4 General Ledger

## 14.4.1 Overview

Select Accounting, GL Transactions, New Transaction.



The first selection allows you to enter an accounting transaction. You will be given the next available Transaction Number. The Transaction Number should consist of only numeric characters with leading zeros. pc/MRP is unable to increment alpha characters. The Entry Method Screen will appear giving you the following entry options:

If you select an S, O, or R type transaction, pc/MRP will prompt you to scroll the invoice file to locate the invoice or AR Voucher. You can scroll on document number (invoice number), customer account number, part number, model number and or sales order number.

If you select a **P**, **I**, or **E** type transaction, pc/MRP will prompt you to scroll the receiver file to locate the receiver or AP Voucher. You can scroll on document number (receiver number), vendor account number, part number, model number and or customer PO number.

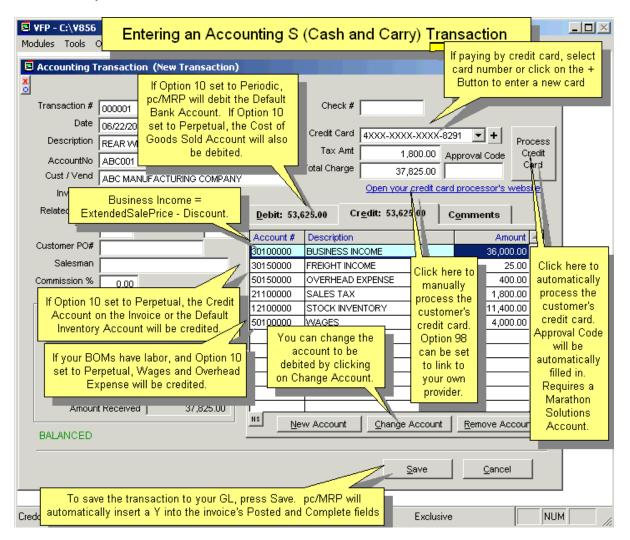
Enter the first several characters you wish to begin scrolling at. When the desired record is located, press enter to preview the record. If it is the wrong record, press the escape key to continue scrolling. When you find the correct record press the enter key or click on the upper left button of the scroll window and select close to create a GL transaction for that record.

It should be noted that the following examples use pc/MRP's default chart of account numbers. You can use your own chart of account numbers if you edit or add your new chart of account numbers to the chart of accounts and accounting template file (**Option 9** in the configuration menu).

In addition it should be noted that the following examples were created with pc/MRP's inventory accounting method set to perpetual and not periodic (**Option 10** in the configuration menu's settings and utilities section). Different chart of accounts would be debited and credited if pc/MRP's inventory accounting method were set to periodic.

## 14.4.2 A/R Transactions

## 14.4.2.1 Cash and carry sale (S):



Cash and carry / On Account & Carry Sale, S type, example transaction (NOT RECOMMENDED FOR ORDER ENTRY SALES!)

This type of entry is used to record a cash and carry sale. pc/MRP will bring in the above information from the invoice, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the cancel button, edit the invoice, and re-enter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction in the transaction data base file, replace the posted field in the invoice with "Y", and replace the complete field in the invoice with a "Y". pc/MRP will also replace the check number and amount paid fields in the invoice with the correct values.

## If Multi Divisions is Off (Default Setting in Option 11)

```
The Income Chart of Accounts
```

Case the Invoice or Part contain an Income Credit Account (uses invoice if populated) pc/MRP credits the Income Account listed in the Invoice or Part

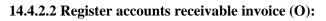
Otherwise

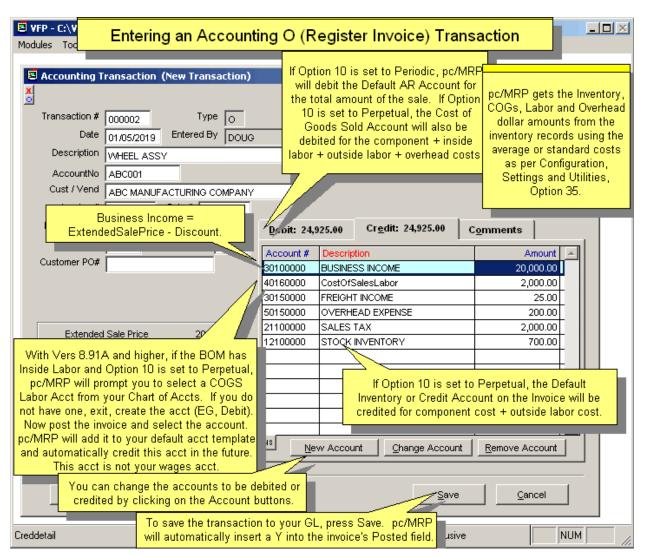
pc/MRP credits the Income Account listed in the Default Account Template

Remaining Chart of Accounts (Bank, Frt, Tax plus Inventory and COGs if Option 10 = Perpetual) pc/MRP Debits and Credits Accounts listed in the Default Accounts Template

## If Multi Divisions is On (Option 11 is set to Division)

The Income Chart of Accounts Case the Part or Invoice contain an Income Account (uses invoice if populated) If the invoice has a division Credit a chart of accounts containing the first 4 chars of invoice acct + division If the invoice does not contain a division Credit that the Income Account listed in the Invoice or Part Otherwise if the Part and Invoice do not contain an Income Account If the invoice does not have a division Credit the Income Account listed in the Default Account Template Else the invoice has a division If the default income account + division exists Credit the default Income Account + Division Else the Default Income Account + Division do not exist Credit the Default Income Account + "0000" Remaining Chart of Accounts (Bank, Frt, Tax plus Inventory and COGs if Option 10 = Perpetual) If the invoice does not have a division Debit and Credit Accounts listed in the Default Accounts Template Else the invoice has a division If the default account + division exists Debit/Credit the default Accounts + Division Else the Default Account + Division do not exist Debit/Credit the Default Accounts + "0000"





## Register accounts receivable, material going Out, O type, example transaction

This type of entry is necessary whenever an item is invoiced on account. pc/MRP will bring in the above information from the invoice, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the Cancel Button, edit the invoice, and re-enter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction in the transaction data base file, and replace the posted field in the invoice with a "Y". The Division Field is transferred from the part master or address book (Configuration, Settings and Utilities, **Option 78**) to the sales order and from there to the invoice.

## If Multi Divisions is Off (Default Setting Option 11)

pc/MRP will debit the Default AR Account found in Option 9 for the amount of the sale pc/MRP will credit the Income Account found in the Invoice, Part or Default Accounts for the amt of the sale
pc/MRP will credit the Default Sales Tax Liability and Default Freight Income Accounts (Option 9)
If Option 10 set to perpetual accounting methods
Debits CoGS \$100.00
Credits Inventory \$60.00 (Inventory is not over driven and does not include labor)
Credits Gross Wages \$30.00 (Only if the BOM contains labor type part numbers)
Credits Overhead \$10.00 (Only if the BOM contains labor type part numbers and overhead % > 0)

pc/MRP V9.50

## If Multi Divisions is On (Option 11 is set to Division)

The Income Chart of Accounts Case the Part or Invoice contain an Income Account (uses invoice if populated) If the invoice has a division Credit a chart of accounts containing the first 4 chars of invoice acct + division If the invoice does not contain a division Credit that the Income Account listed in the Invoice or Part Otherwise if the Part and Invoice do not contain an Income Account If the invoice does not have a division Credit the Income Account listed in the Default Account Template Else the invoice has a division If the default income account + division exists Credit the default Income Account + Division Else the Default Income Account + Division do not exist Credit the Default Income Account + "0000" Remaining Chart of Accounts (AR, Frt, Tax plus Inventory and CoGS if Option 10 = Perpetual) If the invoice does not have a division Debit and Credit Accounts listed in the Default Accounts Template Else the invoice has a division If the default account + division exists Debit/Credit the default Accounts + Division Else the Default Account + Division do not exist Debit/Credit the Default Accounts + "0000"

**Note:** pc/MRP only uses **Option 35** to determine whether to use average or standard costs. pc/MRP will calculate Cost of Goods Sold directly from the partmaster and not from the cost in the invoice or sales order regardless of how Option 35 is set. If there is labor and or overhead in the BOM, pc/MRP will credit those accounts regardless of how Option 35 is set. The reason for this is that pc/MRP's cost rollup function includes labor and overhead costs if they exist in the BOM. As such, the above invoice would be debited and credited as follows.

The cash sale (S) type transaction is similar to the above (O) type transaction with the exception the S type transaction debits the checking account instead of accounts receivable.

Outside labor is rolled into inventory and inside labor is rolled into gross wages.

## 14.4.2.3 Accounts receivable payment (revenue) (R):

VFP - C:\V856 Modules Tools	Entering an Accounting R (Receive Payment) Transaction
Accounting T	If paying by credit card, select ansaction (New Transaction)
X	Button to enter a new card
_	100002 Type R Check #
Date	16/22/2011 Entered By DOUG
Description	REAR WHEEL ASSY
AccountNo	ABC001 Tax Amt 1,800.00 Approval Code Credit
Cust / Vend	ABC MANUFACTURING COMPANY pc/MRP will arge 37,825.00
Invoice #	000002 Sale # 000102 Credit default AR Open your credit card processor's websile
Related Doc#	Debit: 37,825.00 Cr <u>e</u> dit: 37,82500 Comments
Task	Sub-Task Account # Description Amount 4
Customer PO#	10200000 BANK CHECKING ACCOUN 37,825.00
Salesman	Click here to Click here to
Commission %	pc/MRP will debit the Accept or edit the manually automatically
	Amount Received, Debit Process the customer's
Extended Term	credit card.
	Line Item 1 800.00 You can change the Option 98 Approval Cod
Freight fo Total with Ta	Line item 25.00 account to be can be set
Amount P	d to Date 0.00 on Change Account. your own filled in.
	ount Due 37,825.00 Requires a provider. Requires a
Amoun	Received 37,825.00 NS Solutions
BALANCED	
	ceiving a partial payment, be sure the Amount ved, Bank, and AR = Partial Payment
To save the tra	saction to your GL, press Save. pc/MRP will automatically
	into the invoice's Complete field if amt paid = amt due Exclusive NUM

This type of entry is used to record a payment from a customer towards an existing accounts receivable invoice or voucher. pc/MRP will bring in the above information from the invoice, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the cancel button, edit the invoice, and reenter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction data base file, replace the check number in the invoice, and add the amount received to the amount received field in the invoice. If the total amount received is equal to or greater than the amount due pc/MRP will put a "Y" in the invoices complete field.

If the customer pays within 10 days and takes advantage of the terms discount, enter a general ledger transaction (accounts receivable payment). Enter the full amount originally due as the amount received. Debit checking for the amount actually received, debit Cash Discount or Business Income for the terms amount, credit Accounts Receivable for the full amount originally due.

## If Multi Divisions is Off (Default Setting Option 11)

pc/MRP selects the AR and Checking Account listed in the Default Accounts Template

## If Multi Divisions is On (Option 11 is set to Division)

If the invoice does not have a division Selects the AR and Checking Accounts listed in the Default Accounts Template Else the invoice has a division If the default account + division exists Credit/Debit the default Accounts + Division Else the Default Account + Division do not exist Credit/Debit the Default Accounts + "0000"

## 14.4.3 A/P Transactions

14.4.3.1 Cash and carry purchase (P):

	Transaction (New Tra	-	P (Cash Purc		
Transaction # Date Description AccountNo Cust / Vend	D00000B         Type           11/05/2009         Entered B           BEARING SS         BBC001           BBC MANUFACTURING C         BBC	DOUG			Enter the vendor's Invoice Number. Comments pc/MRP Versions 8.32A and higher.
Tern Tax f Freight f Total with Ta Amount f	000001     PO # 000       I Sale Price is Discount or Line Item or Line Item ix & Freight vaid to Date wrount Due wrount Paid	50.00 -5.00 2.25 10.00 57.25 57.25 57.25 57.25 	Description     STOCK INVENTOR     FREIGHT     RP will automatically t the Default Freight come Account.	If Option 10 Default In debited . Default Pur will be deb inventory ite	Amount 47.25 10.00 D is set to Perpetual, the ventory Account will be If set to Periodic, the chase Expense Account ited. If the PO is for non erms the Default Operating Account will be debited.
			Change Account another account.		
auto	. To save the transac omatically insert the a eceiver's Complete fie	mount paid into th	ne receiver and a Y i	nto the	ked

Cash Purchase, P type, example transaction

This type of entry is used to record a cash and carry purchase, for example Checks, Cash, Credit Card, & CODs. pc/MRP will bring in the above information from the receiver, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the cancel button, edit the receiver, and re-enter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction data base file, replace the posted field in the receiver with "Y", and replace the complete field in the receiver with a "Y". pc/MRP will also replace the check number and amount paid fields in receiver with the correct values. pc/MRP will then ask if you wish to print a check for transaction. If you have created a custom form (cuscheck.frx), then select Form Type, Custom. Check date will be the current system date.

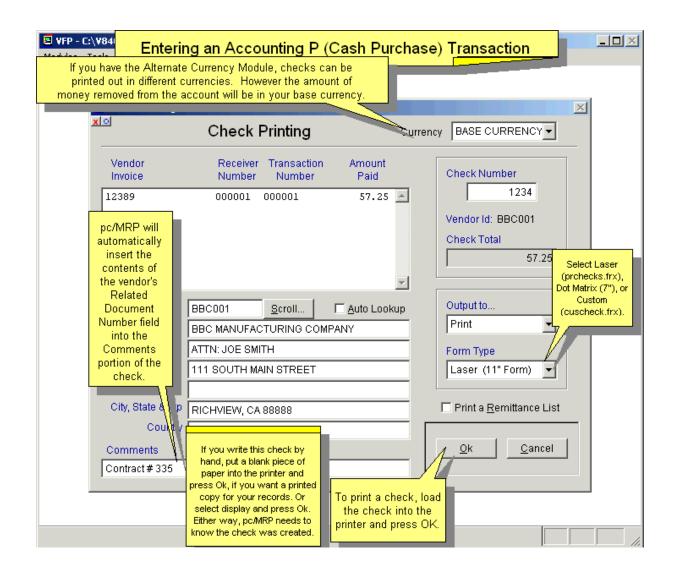
## If Multi Divisions is Off (Default Setting Option 11)

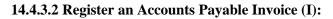
The Inventory, Purchase Expense or Operating Expense Chart of Accounts
Case the Receiver or Part contain a Debit Account (uses Receiver if populated) pc/MRP debits the Debit Account listed in the Receiver or Part
Otherwise the receiver or part do not contain a Debit Account
If receiving inventory items,
If **Option 10** is set to Perpetual debit the Default Inventory Account
If receiving non inventory items,
Debit the Default Operating Expense Account.
Remaining Chart of Accounts (Bank, Freight Income)
pc/MRP Debits and Credits Accounts listed in the Default Accounts Template

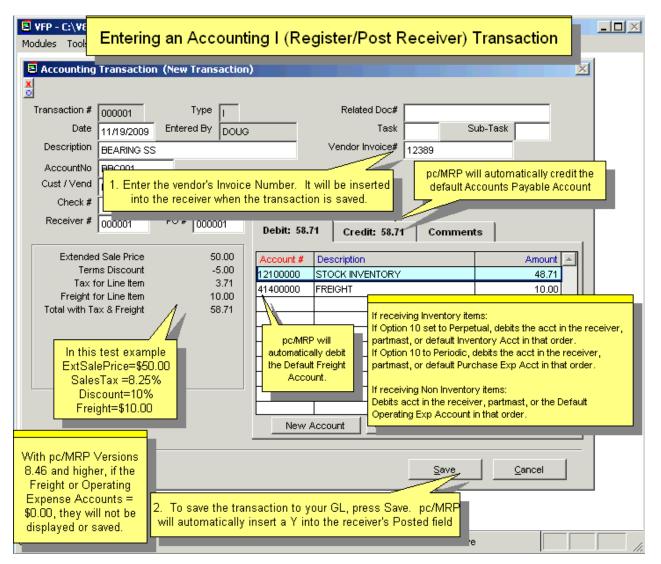
## If Multi Divisions is On (Option 11 is set to Division)

The Inventory, Purchase Expense or Operating Expense Chart of Accounts Case the Receiver or Part contain a Debit Account (uses Receiver if populated) If the receiver has a division Debits a chart of accounts containing the first 4 chars of receiver acct + division Otherwise the receiver does not contain a debit account If the receiver does not have a division If receiving inventory items, If **Option 10** is set to Perpetual debit the Default Inventory Account If Option 10 is set to Periodic debit the Default Purchase Expense Account If receiving non inventory items, Debit the Default Operating Expense Account. Else the receiver has a division If receiving inventory items, If **Option 10** is set to Perpetual debit the Default Inventory Account + division If Option 10 is set to Periodic debit the Default Purchase Expense Account + div If receiving non inventory items, Debit the Default Operating Expense Account + div. Remaining Chart of Accounts (Bank, Freight Income)

If the receiver does not have a division Debits and Credits Accounts listed in the Default Accounts Template Else the receiver has a division If the default account + division exists Debit/Credit the default Accounts + Division Else the Default Account + Division do not exist Debit/Credit the Default Accounts + "0000"







Register accounts payable, material coming in, I type, example transaction

This type of entry is necessary whenever an item is received on account. pc/MRP will bring in the above information from the receiver, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the cancel button, edit the receiver, and re-enter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction in the transaction data base file and replace the posted field in the receiver with a "Y"

**Note:** If **Option 10** is set to Perpetual, pc/MRP first looks at receiver, then inventory, and lastly, **Option 9** for the default inventory account. It the screen presented above, the default inventory account is 12100000.

## If Multi Divisions is Off (Default Setting Option 11)

The Inventory, Purchase Expense, or Operating Expense Chart of Accounts are considered as follows: Case the Receiver or Part contain a Debit Account (uses Receiver if populated)

pc/MRP debits the Debit Account listed in the Receiver or Part

Otherwise the receiver or part do not contain a Debit Account

If receiving inventory items,

If **Option 10** is set to Perpetual will debit the account in the receiver, partmast, or default Inventory Account in that order.

If Option 10 is set to Periodic will debit the account in the receiver, partmast, or default Purchase Expense Account in that order.

If receiving non inventory items,

Debit the Default Operating Expense Account.

Remaining Chart of Accounts (AP, Freight Income)

pc/MRP Debits and Credits Accounts listed in the Default Accounts Template

## If Multi Divisions is On (Option 11 is set to Division)

The Inventory, Purchase Expense or Operating Expense Chart of Accounts are considered as follows: Case the Receiver or Part contain a Debit Account (uses Receiver if populated)

SetAcct()

If the receiver has a division

Debits a chart of accounts containing the first 4 chars of receiver acct + division Else the receiver has no division

Debits the chart of accounts listed on the receiver or partmaster

Otherwise the receiver does not contain a debit account

## Settmplt()

If the receiver does not have a division

If receiving inventory items,

If **Option 10** is set to Perpetual debit the Default Inventory Account

If Option 10 is set to Periodic debit the Default Purchase Expense Account

If receiving non inventory items,

Debit the Default Operating Expense Account.

Else the receiver has a division

If receiving inventory items,

If **Option 10** is set to Perpetual

If exists in chart of accounts debit the Default Inventory Account + division Else debit Default Inventory Account + "0000"

If Option 10 is set to Periodic

If exists in chart of accounts debit the Default Purchase Expense Account + div Else debit Default Purchase Expense Account + "0000"

If receiving non inventory items,

Debit the Default Operating Expense Account + div.

Remaining Chart of Accounts (AP, Freight Income)

If the receiver does not have a division

Debits and Credits Accounts listed in the Default Accounts Template

Else the receiver has a division

If the default account + division exists

Debit/Credit the default Accounts + Division

Else the Default Account + Division do not exist

Debit/Credit the Default Accounts + "0000"

## 14.4.3.3 Accounts Payable Payment (expense) (E):

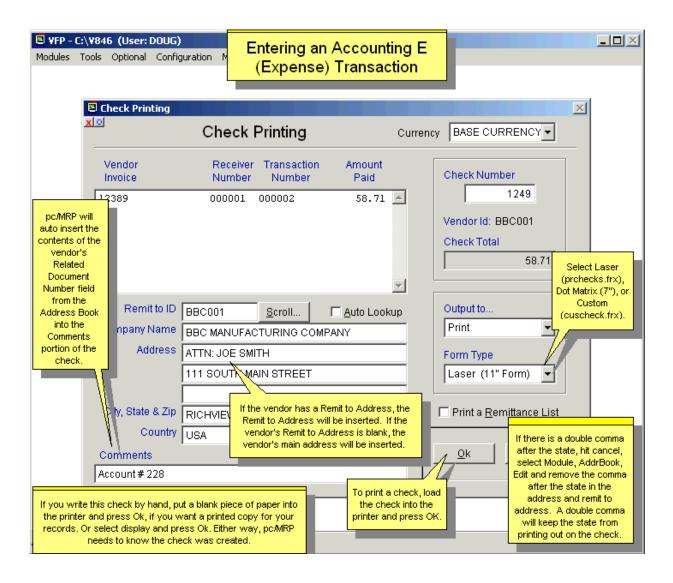
VFP - C:\V840 Modules Tools	Entering an Accounting E (Expense) Transaction
Transaction # Date Description AccountNo Cust / Vend Receiver # Extended Term Tax f Freight f Total with Ta Amount f	Account #     Description     Amount       20100000     ACCNTS/PAYAB.VENDORS     58.71
BALANCED	New Account     Change Account     Remove Account       You can change the accounts to be debited or     Image: Change Account is a count is a
	credit by clicking on the Account Buttons.       Save       Cancel         To save the transaction, press Save.       pc/MRP will automatically         sert the amount paid into the receiver and a Y into the receiver's       Complete field if the amount paid = the amount due.

This type of entry is used to record a payment towards an existing accounts payable receiver or voucher. pc/MRP will bring in the above information from the receiver, and debit and credit the above chart of account numbers automatically. If the amounts are not correct, click on the cancel button, edit the receiver, and re-enter this transaction. Once you are satisfied with the transaction, click on the save button. pc/MRP will store the transaction in the transaction data base file, replace the check number in the receiver, and add the amount paid to the amount paid field in the receiver. If the total amount paid is equal to or greater than the amount due pc/MRP will put a "Y" in the receiver's complete field.

You can also use accounting's "Pay Bills/Print Checks" option to pay off a number of open unpaid receivers. The "Pay Bills" function creates a check run, entering E type transactions for each receiver selected and prints out one check per vendor.

## If Multi Divisions is Off (Default Setting Option 11)

pc/MRP selects the AP and Checking Account listed in the Default Accounts Template **If Multi Divisions is On (Option 11 is set to Division)** If the receiver does not have a division Selects the AP and Checking Account listed in the Default Accounts Template Else the receiver has a division If the default account + division exists Credit/Debit the default Accounts + Division Else the Default Account + Division do not exist Credit/Debit the Default Accounts + "0000" pc/MRP will then ask if you wish to print a check for transaction. If you have created a custom form (cuscheck.frx), then select Form Type, Custom. Check date will be the current system date.



## 14.4.4. Other Transactions

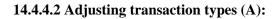
## 14.4.1 Payroll (W):

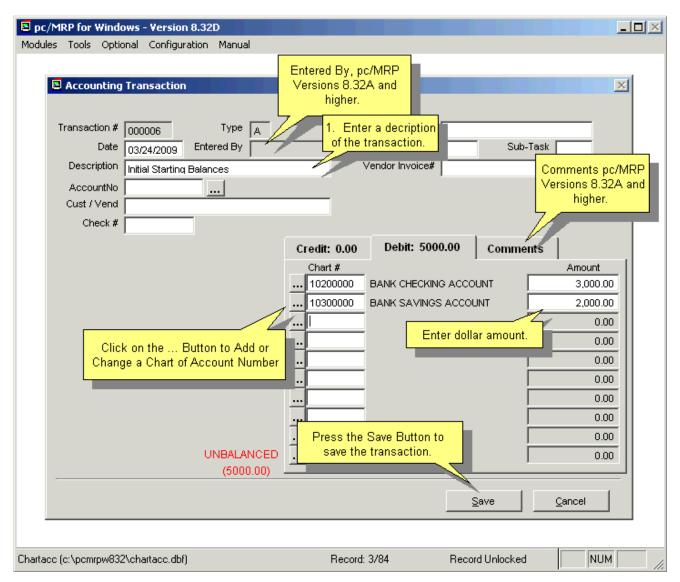
YFP - C:\V846 (User: DOUG) Modules Tools Optional Configuration	Entering Accounting Transactions W Register a payroll check
Accounting Tr     1. Enter a     decription of the     transaction.      Transaction #     Date     Description     Cust / Vend     Check #	to beautifie belauti wage
	Account #       Description       Amount         22100000       PAYROLL TAX. F.W.T.       0.00         22110000       PAYROLL TAX. F.IC.A       0.00         22140000       PAYROLL TAX.S.W.T.C.A       0.00         22130000       PAYROLL TAX.S.D.I.C.A       0.00         10200000       BANK CHECKING ACCOUNT       0.00         2.       Enter the dollar amounts (from an external payroll program) to be       10
BALANCED	debited and credited for the an         employee or the total amount for         New Accor         all employess for the payroll run.         Save         Cancel
ransact (c:\v846\transact.dbf)	Record: 2/2 Record Unlocked

Payroll, Wage, W type example transaction

Selecting W will provide a payroll template for payroll entries. pc/MRP does not have a payroll module, just the above payroll screen. The payroll screen will automatically bring up the correct accounts to debit and credit. The user must enter the correct dollar amounts from a payroll program or payroll service. One entry can be made per payroll period, or an entry can be made for every person for every payroll period. See the example payroll transaction section (14.5.7) of this Manual for examples of entering various types of payroll transactions.

**Note**: The purpose of the W Option is to make a summary entry for a payroll period. This option can print out a standard check (not a payroll check) if Configuration, Settings and Utilities Option 13 is set to allow the W Option to "Print a check".





All other, A type, example transaction

This type of entry is used to record all other type of transactions. This quick entry form was designed to handle all transactions not involving an existing pc/MRP payable or receivable voucher. Adjusting transactions, transferring from checking to savings account are good examples. It is also the most efficient means for an outside accountant to make entries, as outside accountants are rarely required to make payables and receivable voucher entries.

This module is also used to startup or transfer in your existing account balances from your previous accounting system. Enter all your debits and credits from a previous trial balance by overriding pc/MRP's Out of Balance Message. When you have completed your entries post the month and print your financials. Check the Trial Balance Report to make sure you are in balance.

# 14.4.5 Edit/View a GL Transaction

VFP - C:\V846 (User Modules Tools Optional	Editing an	Accounting Transaction	
Inventory			
BOMs F Stockroom			
Purchase +	-		
Receive			To edit an accounting
Work Order   Sales Order			transaction, select Modules, Accounting,
			GL Transactions,
Shipment •			Edit/View Transactions.
Address Book		<u> </u>	
Accounting	<u>G</u> L Transactions Accounts Payable	New Transaction     Edit / View Transaction	
E <u>x</u> it	Pay Bills / Print / Clear checks	<u>Scroll Transactions</u>	
	Accounts Receivable	▶ <u>I</u> ndex	
	Batch Post Invoices	Remove <u>M</u> arked Record	ds
	Receive Customer Payment	Remove over <u>X</u> Years	
	<u>R</u> eports Dril <u>l</u> Down Reporting		
	Income & Expense Grap <u>h</u>		
	⊆redit Memos	•	If you have removed accounts from transactions, they have
	Debit Memos	•	been marked for deletion.
	Chart of <u>A</u> ccounts	+	"Remove Marked Records" will remove all transaction
	Tax Code Entity Post Month w/ Print Einancials	•	records and transaction detail records that have been
	Enter / Edit <u>B</u> udget Figures		marked for deletion from their
Edit an existing General Led	Audit <u>T</u> ransactions		respective dbf files.
	Audit 9, Hadata Address Palar		
🗷 VFP - C:\V846 (User: I	Doug) Editing an (	Accounting Transaction	
Modules Tools Optional	Configuratio		
	Select the Accounting Tansa	action Edit Mode	
	Manual: will load the d	ollar amounts from the original transa	ction
		sed data back into the invoice.	
	Auto: will load the d	ollar amounts from the invoice into the	
		revised data back into the invoice.	
	lfthe original invoication	cher has been edited select Manual e	dit
	-	nanually correct the invoice yourself.	
			-
	Manual	<u>Auto</u>	
Select Manual to r	nanually edit the		
transaction. For E	(Expense) and R		ceiver has not been edited and ) or R (Revenue) Transactions.
(Revenue) transaction manually edit the amou		For all other transactions, sel	ect Manual. Auto will examine
fields on the related r		the debits and credits based	figuration settings and replace d on what is in those current
			the same code that is used new transaction.

Slideshow at: http://www.pcmrp.com/mrp101/editaccountingoption14.htm

The ability to edit General Ledger transactions can be enabled or disabled by using **Option 14** in the Settings and Utilities. If the option is set to Adjust, editing will not be available. If the option is set to allow Edits, the user can scroll, edit, delete, undelete, or run queries against General Ledger records.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an Indexed Search select the:

- 1. Indexed Search tab
- 2. Desired Sort Order: Document Number, Account Number or Part Number
- 3. Enter the applicable data in the Begin Scrolling At: field
- 4. Select the desired Action: View or Edit
- 5. Press Search

pc/MRP will scroll to the desired record or the nearest match. Select the correct record by scrolling and press Ok to proceed to the edit screen for that record.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the General Ledger table. For further details, see Chapter 15.14.

If you edit an A, W, O, or I type transaction, the corresponding invoices or receivers <u>will not</u> automatically be edited. Users would have to edit both the General Ledger and the corresponding invoice or receiver.

If you edit an E (AP expense payment) or P (cash purchase) transaction, pc/MRP will prompt you to edit the transaction automatically or manually. An automatic edit will correct the original receiver's amount paid and complete fields automatically. A manual edit will not correct the receiver's amount paid and complete fields. After you manually edit an E or P transaction, you must edit the receiver's amount paid and complete fields on each line item. If the original receiver has not been edited since entering the transaction, select "Auto". If the original receiver's amount paid and complete fields. After you must edit the receiver has been edited since entering the transaction, select "Auto". If the original receiver has been edited since entering the transaction, select "Manual". After manually editing the transaction, you must edit the receiver's amount paid and complete fields. Please note, if you auto edit an accounting transaction who's receiver's amounts or quantities have been edited, the amount paid will be incorrect on both the receiver and the accounting transaction.

If you edit an O (post an AR invoice), R (AR revenue payment), or S (cash sale) transaction, pc/MRP will prompt you to edit the transaction automatically or manually. An automatic edit of an R transaction will correct the original invoice's amount paid and complete fields automatically. A manual edit will not correct the invoice's amount paid and complete fields. After you manually edit an R or S transaction, you must edit the invoice's amount paid and complete fields on each line item. An automatic edit of an O transaction will cause pc/MRP to update the CoGS and Inventory based on current costs. If the original invoice has not been edited since entering the transaction, select "**Auto**". If the original invoice is recent and has been edited since entering the transaction, select "**Manual**". After manually editing the transaction, you must then edit the invoice's amount paid and complete fields. Please note, if you auto edit an accounting transaction who's invoice's amounts or quantities have been edited, the amount paid will be incorrect on both the invoice and the accounting transaction.

When you edit an E, P, R, or S type transaction, pc/MRP will display the Amount Paid/Received to Date minus the Amount Paid/Received from the Transaction you are editing. You can enter a new Amount Paid/Received or re-enter the original Amount Paid/Received that is being displayed. If you selected "Auto", upon completing the Edit Screen pc/MRP will subtract the Previous Amount Paid/Received and add the New Amount Paid/Received to the Total Amount Paid/Received.

If the payment for an invoice/receiver was received/paid in installments (more than one R type transaction for one invoice/receiver) the "Auto" option will not be offered, only "Manual" edit is available.

The Transaction Edit Module will automatically look for an Accounts Payable (receiver) or Accounts Receivable (invoice) Voucher to correct the amount paid if either of the following conditions exist: "Auto" was selected and Transaction Type = "R" and Invoice # is not "NONE" or "Auto" was selected and Transaction Type = "E" and Receiver # is not "NONE"

pc/MRP will not correctly process an existing voucher unless the Transaction Record contains either an "R" or an "E" and the correct number is in the Invoice # or Receiver # Field.

An accounting transaction record cannot be deleted unless the Amount Paid/Received or the first account debited and the first account credited equals zero.

Once you have finished editing the record, pc/MRP will ask Do you wish to mark this record for deletion? If you answer Y, a message will warn you that pc/MRP requires one record in each data base file. AT NO TIME SHOULD YOU EVER DELETE EVERY RECORD IN A DATABASE FILE. Once the record has been marked for deletion you must return to the menu and select REMOVE ALL DELETED RECORDS FROM DISK AND REINDEX.

#### **Entering Accounting Transactions Pseudo Code**

The following code is intended to help technical support personnel by displaying a short summary of the code that determines which accounts to debit and credit when entering an accounting transaction

```
ENTERTRA.PRG
Do While maccess = "GRANTED"
      If Inlist(mtrantype, 'R', 'O', 'S') (if R (receiving revenue from an invoice), O (posting an invoice), or S(cash sale)
                    if minv = Y
                                                             (if there is an invoice)
                                 If mmult = "Y" multidivision is ON (if Option 12 set to Multi Division and Option 11 is set to "DIV" or "PRO")
                                               picks up division from invoice
                                               IF SUBSTR(configdm,31,3) = "PRO" && Option 12 Set to use first 4 char of partnumber for div code
                                                             mcondit = 'Upper(InvoiceNo) = Upper(mInvoiceNo) AND mDiv = Substr(Partno,1,4) AND !Eof()
                                               ELSE && Option 12 Set to use invoice div for div code
                                                             mcondit = 'UPPER(INVOICENO) = UPPER(MINVOICENO) AND MDIV = DIVISION AND !EOF()'
                                               ENDIF
                                  Endif
                                  mcacc1 = space(8)
                                  do while &mcondit (invoiceno and div stay the same)
                                               if mtrantype = O or S
                                                            mcacc1 = SetAcct(mtrantvpe)
                                               endif
                                 enddo
                    endif
                    If mmult = 'Y'
                                 IF UPPER(invoiceno) = UPPER(minvoiceno)
                                               mitemno = itemno
                                               mdone = 'N
                                  ELSE
                                               mdone = 'Y
                                  ENDIF
                    Endif
      Endif
      If Inlist(mtrantype,'E',T,'P') (if creating a transaction record for E (paying a receiver), I (posting a receiver), P (cash purchase)
                     if mrec = Y
                                                             (if there is a receiver)
                                 if multidivision is ON (if Option 11 set to Multi Division)
                                               picks up division from invoice
                                  endif
                                 mdacc1 = space(8)
                                  mdacc4 = space(8)
                                  do while &mcondit (invoiceno and div stav the same)
                                               if mtrantype = I or P
                                                             if part is designated non inventory
                                                                          mdacc4 = SetAcct(mtrantype)
                                                             if part is anything else
                                                                          mcacc1 = SetAcct(mtrantype)
                                                             endif
                                               endif
                                 enddo
                    endif
      endif
      If substr(configdm,22,9) = 'Perpetual'
                    Case Right(mitemno,2)='CM' and M_POSTED = 'Y' and mtrantype = "R" && Credit memo posted
                                  DO settmplt WITH 'AcctsRec',mdacc1
                                 DO settmplt WITH 'PrimaryChkAct',mcacc1
                    CASE RIGHT(MITEMNO.2)='CM' AND mtrantype = "R'
                                                                                 && Credit memo not posted
                                  DO settmplt WITH 'BusIncome',mdacc1
                                 DO settmplt WITH 'PrimaryChkAct',mcacc1
                    CASE mtrantype = "R"
                                               && accts receivable payment
                                  If pcCallProgram = "RECORDCUSPAYMENT"
                                               STORE mprimchk TO mdacc1
```

```
DO settmplt WITH 'AcctsRec',mcacc1, mcdescrip1
                            Else
                                        DO settmplt WITH 'PrimaryChkAct',mdacc1
                                        DO settmplt WITH 'AcctsRec',mcacc1
                            Endif
                CASE RIGHT(MITEMNO,2)='CM' AND mtrantype = "O"
DO settmplt WITH 'BusIncome',mdacc1
                                                                 && CREDIT MEMO VOUCHER
                            DO settmplt WITH 'AcctsRec',mcacc1
                CASE mtrantype = "O" && sale on accou
DO settmplt WITH 'AcctsRec',mdac1
                                             && sale on account
                            IF EMPTY(MCACC1) OR MCACC1 = "MULTIPLE"
DO settmplt WITH 'BusIncome',mcacc1
                            ENDIF
                            DO settmplt WITH 'CostOfGoodsSold',mdacc2
                            DO settmplt WITH 'Inventory',mcacc2
                Endcase
     Else && periodic
                Do Case
                            Same code as 'Perpetual' for mtrantype = "R"
                EndCase
     Endif
     DO prtransc
     DO proctra
Enddo
PROCEDURE SETACCT
     Parameters SA_Trantype
     CASE SA_Trantype = O or S && post an invoice or cash sale
                 SA_NewVal = "
                IF Multi Div is on AND (the invoice or the part has an income credit account) AND the invoice has a division
                            SA_NewVal = left(invoice or partmast income acct,4) + Division
                 Endif
                CASE mcacc1 is empty
                            SA_RTNVAL = SA_NewVal
                CASE EMPTY SA_NewVal or mcacc1 = SA_NewVal
                            SA_RTNVAL = mcacc1
                OTHERWISE
                            SA_RTNVAL = "MULTIPLE"
                 ENDCASE
     CASE SA_Trantype = I or P && post a receiver or cash purchase
     ENDCASE
     Return SA RTNVAL
PROCEDURE SETTMPLT
     Parameters mcadescr, mcano
     IF it can find the description in the actmplt.dbf
                IF invoice does not have a Div OR Multi-Div turned off
                            Return the default chart of accounts number found in the actmplt table
                 ELSE && Div in invoice and Multi-Div turned on
                            macctnum = LEFT(canumber,4) + mdiv
                            IF macctnum exists in the chart of accounts
                                        mcano = expacent
                            ELSE
                                        mcano = LEFT(macctnum, 4) + "0000"
                            ENDIF
                ENDIF
     ELSE
                Display error mcadescr Not found in accts templet dbf file
     ENDIF .
```

#### 14.4.6 Index (see 15.14.3)

## 14.4.7 Remove Marked Records (see 15.14.4)

**Note:** Removes accounting transaction records marked for deletion from disk. If the parent transaction(s) are marked for deletion (through the program or the command line), both the parent and their related child records (stored in transactiondbf) will be removed from disk.

## 14.4.8 Remove Over X Years (see 15.14.5)

# **14.5 Example Transactions**

## 14.5.1 Initial Startup (No Previous Accounting Program Used)

DEBIT: ALL ASSETS (CASH, CHECKING, EQUIPMENT, PREPAID EXP) CREDIT: ALL LIABILITIES (TAXES, ACCTS PAY, NOTES PAY) : DEPRECIATION ACCRUED IF DEBITS > CREDITS, CREDIT THE DIFF TO STARTING CAPITAL IF CREDITS > DEBITS, DEBIT THE DIFF TO STARTING CAPITAL

Enter all your debits and credits at once by overriding pc/MRP's Out of Balance Message. When you have completed your entries post the month and run a Trial Balance Report to make sure you are still in balance.

## 14.5.2 Initial Startup (Switch from Previous Accounting Program)

## IF MID PERIOD TRANSFER ALL ACCOUNTS FROM TRIAL BALANCE

IF START OF PERIOD TRANSFER LIABILITY, ASSET, & EQUITY ACCTS FROM TRIAL BALANCE

## IF START OF YEAR (TRANSFER YTD EARNINGS TO STARTING CAPITAL) TRANSFER LIABILITY, ASSET, & EQUITY ACCTS FROM TRIAL BALANCE

Enter all your debits and credits at once by overriding pc/MRP's Out of Balance Message. When you have completed your entries, post the month and run a Trial Balance Report to make sure you are still in balance.

## 14.5.3 Owner Purchases Supplies with His Own Cash

## ON THE TRANSACTION DATE

DEBIT : OFFICE SUPPLIES ETC. 61400000 (EN Debit account) CREDIT : NOTES PAYABLE TO OWNER (LC Credit account - 20200000?)

## WHEN HE IS REIMBURSED DEBIT : NOTES PAYABLE TO OWNER (LC Credit account - 20200000?) CREDIT : CHECKING 10200000, CASH 10100000, ETC.

## 14.5.4 Start of New Year

### **Sole Proprietor**

DEBIT : YTD RETAINED EARNINGS 29900000 (TO BRING ACCT TO \$0.00) (this is a QR Credit Account - only one allowed) CREDIT : STARTING CAPITAL 25100000 (this is a QN Credit - Equity Account)

#### Corporation

DEBIT : YTD RETAINED EARNINGS 29900000 (TO BRING ACCT TO \$0.00) (this is a QR Credit Account - only one allowed) CREDIT: PRIOR YTD RETAINED EARNINGS (29950000) (this is a QN Credit - Equity Account)

This transaction should be dated as the first day of the new year.

### 14.5.5 Periodic Inventory Methods

pc/MRP can be set in the configuration menu to use the periodic inventory method. <u>The Periodic Inventory</u> <u>Method requires the inventory to be adjusted at the end of each month instead of with each transaction</u>. The total dollar amount of the inventory at the end of one period is also the beginning balance for the next period. Since pc/MRP automatically increments and decrements the physical inventory, you can run pc/MRP's "Total Onhand Stock Value Report" to obtain the inventory value instead of taking a physical inventory. Example sales and purchasing transactions for companies using a periodic inventory are shown below:

Use the Inventory Value Report to find the inventory value at the Start and End of each month (SOM, EOM). Enter the following A type transactions into the general ledger.

#### START OF MONTH INVENTORY ADJUSTMENT

DEBIT : STARTING INVENTORY EXP 40100000 incr exp by SOM amt CREDIT: STOCK INVENTORY ASSET 12100000 zeros out asset acct

#### END OF MONTH INVENTORY ADJUSTMENT

DEBIT : STOCK INVENTORY ASSET 12100000 asset = new EOM \$amt CREDIT: ENDING INVENTORY EXP 42100000 decr exp by EOM \$amt (YTD Exp Rep will add the SOM and subtract the EOM \$amt)

#### PURCHASE, CASH Transaction type 'P'

DEBIT : PURCHASES 41100000, RENT 61500000, SHOP SUPPLIES 61400000, ETC. CREDIT: CHECKING 10200000, CASH 10100000, ETC.

#### PURCHASE, ON ACCOUNT

WHEN YOU RECEIVE INVOICE Transaction type 'I' (Material <u>in</u> the door) DEBIT: PURCHASES 41100000, SHOP SUPPLIES 61400000, ETC. CREDIT: ACCOUNT PAY 20100000

#### WHEN YOU PAY ON ACCOUNT Transaction type 'E' (Expense)

DEBIT:ACCOUNT PAY 20100000 CREDIT: CHECKING 1020, CASH 10100000, ETC.

#### SALE, CASH Transaction type 'S'

(Firms that do not sell on account, usually enter one cash receipt daily entitled Day's Receipts and the date.)

DEBIT : CHECKING 10200000, CASH 10100000, ETC. CREDIT : BUSINESS INCOME 30100000 AND SALES TAX LIABILITY 21100000

#### SALE, ON ACCOUNT

#### WHEN YOU INVOICE Transaction type 'O' (matl <u>O</u>ut the door)

DEBIT: ACCOUNT RECVB 11100000 CREDIT: BUSINESS INCOME 30100000 AND SALES TAX LIABILITY 21100000

#### WHEN CUSTOMER PAYS ON ACCOUNT Transaction type 'R' (Revenue)

DEBIT: CHECKING 10200000, CASH 10100000, ETC. CREDIT: ACCOUNT RECVB 11100000

## **14.5.6 Perpetual Inventory Methods**

pc/MRP can be set in the configuration menu to use the perpetual inventory method. <u>The Perpetual Inventory</u> <u>Method requires the inventory to be adjusted with each sale and purchasing transaction</u>. To employ this method the accountant must know the inventory cost for each sale. pc/MRP can provide those figures by first running the Automatic Cost Roll Up Option and then printing out an "All Parts Costed Report" in inventory. With this method, you must add a new account called "COST OF GOODS SOLD" to the chart of accounts as an "EG" Debit Account.

If you were to add labor to your BOMs you could manually credit inventory and overhead (credit acct) when debiting cost of goods sold.

PURCHASE, CASH Transaction type 'P' DEBIT : INVENTORY 12100000 CREDIT : CHECKING 10200000 PURCHASE. ON ACCOUNT WHEN YOU RECEIVE INVOICE Transaction type 'I' (Material In the door) DEBIT : INVENTORY 12100000 CREDIT : ACCOUNT PAY 20100000 WHEN YOU PAY ON ACCOUNT Transaction type E (Expense) DEBIT : ACCOUNT PAY 2010000 CREDIT : CHECKING 10200000, CASH 10100000, ETC. Transaction type 'S' SALE, CASH FOR THE SALE AMOUNT DEBIT : CHECKING 10200000, CASH 10100000, ETC. CREDIT: BUSINESS INCOME 30100000 AND SALES TAX LIABILITY 21100000 FOR THE COST OF INVENTORY SHIPPED DEBIT : COST OF GOODS SOLD CREDIT: INVENTORY 12100000 SALE. ON ACCOUNT WHEN YOU INVOICE Transaction type 'O' (Material Out the door) FOR THE SALE AMOUNT DEBIT : ACCOUNT RECVB 11100000 CREDIT: BUSINESS INCOME 30100000 AND SALES TAX LIABILITY 21100000 FOR THE COST OF INVENTORY SHIPPED DEBIT : COST OF GOODS SOLD CREDIT: INVENTORY 12100000

#### WHEN CUSTOMER PAYS Transaction type 'R' (<u>R</u>evenue)

DEBIT : CHECKING 10200000, CASH 10100000, ETC. CREDIT: ACCOUNT RECVB 11100000

## 14.5.7 Payroll Entries (Accounting 'W' transaction)

Please note the following caps, percentages, and deductions may vary from state to state and change without notice. The following are used for example only.

**Note:** The Accounting 'W' transaction is used for creating a summary entry of payroll information you receive from the company that does your payroll. This is not a 'Payroll System' as it does not offer to print checks; nor is the 'W' transaction listed in the Accounting, Print Unprinted Checks selection. If you intend to print payroll checks, you must use the Accounting 'A' type transaction and reference the correct accounts as listed below.

## PAYING WAGES (ENTER AS A "W" TYPE ACCOUNTING TRANSACTION)

EXAMPLE EMPLOYEE PAYROLL CHECK: GROSS WAGES FWT (Federal Withholding Tax) SSEC (Social Security Tax) MEDI (Social Security Medicare) SWT (State Withholding Tax) SDI (State Disability Tax) NET PAY	408.00 31.51 25.30 5.92 1.94 5.10  338.23	
DEBIT :GROSS WAGE EXPENSES 50100000 DEBIT : EXPENSES PAYROLL TAXES (SSEC+MEDI) 5 CREDIT: FICA LIABILITY (SSEC+MEDI) 22110000 FICA LIABILITY (SSEC + MEDI) 22110000 SWT LIABILITY 22140000 SDI LIABILITY 22130000 CHECKING ACCT 10200000 (NET PAY)	1100000 31.22	31.22 31.50 31.22 1.94 5.10 338.23
PAYING FEDERAL GOVERNMENT PAYROLL TAXI DEBIT : ACCUM LIAB FWT 22100000 DEBIT : FICA(SSEC+MEDI) 22110000 CREDIT : BANK CHECKING ACCT 10200000	ES (941) 31.50 62.44	93.94
PAYING FEDERAL UNEMPLOYMENT TAX DEBIT : EXPENSES PAYROLL TAXES 51100000 CREDIT : ACCUM LIAB FUTA 22120000 DEBIT : ACCUM LIAB FUTA 22120000 CREDIT : BANK CHECKING ACCT 10200000		
PAYING STATE PAYROLL TAXES DEBIT : ACCUMULATED LIAB SDI 22130000,SWT 2 CREDIT : BANK CHECKING 10200000	2140000	
PAYING STATE PAYROLL TAXES DEBIT : EXPENSES PAYROLL TAXES 51100000 CREDIT : ACCUM LIAB SUI 22150000 ETT 2216000 DEBIT : ACCUM LIAB SUI 22150000 ETT 221600		

- DEBIT : ACCUM LIAB SUI 22150000, ETT 22160000
- CREDIT : BANK CHECKING ACCT 10200000

#### 14.5.8 Owner Withdrawals And Contributions

```
SOLE PROPRIETOR
OWNER WITHDRAWS MONEY
DEBIT: OWNER WITHDRAW (QN, Debit Account)
CREDIT: CHECKING 10200000
OWNER PUTS HIS OWN MONEY IN (Not on a loan type basis)
DEBIT: CHECKING 10200000
CREDIT: OWNER CONTRIBUTION (QN, Credit Account)
CORPORATION
OWNER WITHDRAWS MONEY
DEBIT: CAPITAL DECREASE 27100000
CREDIT: CHECKING 10200000
OWNER PUTS HIS OWN MONEY IN (Not on a loan type basis)
DEBIT: CHECKING 10200000
CREDIT: CHECKING 10200000
CREDIT: OWNER CAPITOL INCREASE 26100000
```

#### 14.5.9 Income Taxes

```
WHEN PREPAYING ESTIMATED TAXES
DEBIT : ASSETS, PREPAID FED TAX 16100000, PREPAID STATE TAX 16200000
CREDIT: CHECKING 10200000
WHEN PAYING INCOME TAXES INDIVIDUAL OWNER
DEBIT : EQUITY COMPANY TAXES 29100000 (Similar to Owner Withheld)
CREDIT: ASSETS, PREPAID TAXES 16100000 16200000 AND CHECKING 10200000
CORPORATION (Over simplified, see your accountant for details)
DEBIT : EXPENSES, COMPANY TAXES 90100000, 90200000
CREDIT: ASSETS, PREPAID TAXES 16100000, 16200000
```

### 14.5.10 Checking Account Adjustments

Make the following adjustments only if you cannot trace the reason for the imbalance. Please note that these adjustments can affect your tax liability.

```
SOLE PROPRIETOR
IF ACTUAL BANK BALANCE IS MORE THAN PC/MRP BALANCE
DEBIT CHECKING 10200000 FOR THE DIFFERENCE
EDIT OWNERS CONTRIBUTION (QN, Credit Account)
IF PC/MRP BALANCE IS MORE THAN ACTUAL BALANCE
DEBIT OWNERS WITHDRAWAL (QN, Debit Account)
CREDIT CHECKING 10200000
CORPORATION
IF ACTUAL BANK BALANCE IS MORE THAN PC/MRP BALANCE
DEBIT CHECKING 10200000 FOR THE DIFFERENCE
CREDIT INCOME ADJUSTMENT (RN, Credit Account)
IF PC/MRP BALANCE IS MORE THAN ACTUAL BALANCE
DEBIT EXPENSE ADJUSTMENT (EN, Debit Account)
CREDIT CHECKING 1020000
```

#### 14.5.11 Breaking Out Freight Charges

When pc/MRP expenses a receiver or payable voucher it debits 41100000 (Purchases) for the full amount (including freight) and credits 20100000 (accounts payable) for the full amount (including freight). If you wish to have freight broken out in your financial statements, you would enter an 'I' type transaction into the general ledger as you normally would and:

```
DEBIT 41100000 PURCHASES FOR PURCHASE AMT ONLY (displayed at top of screen)
DEBIT 41400000 FOR THE FREIGHT AMT (displayed at top of screen)
CREDIT ACCTS PAYABLE FOR THE FULL AMT (displayed at top of screen)
```

## **14.5.12.1** Paying by Credit Card – Initial Preparation (first time only)

Use the Chart of Accounts Module to Create a Credit Card Chart of Accounts. Modules, Accounting, Chart of Accounts, New Chart of Account Number could be "20110000" Description could be "Discover Card J Smith" Account Type = Current Liability Debit/Credit = Credit Check "This is a Credit Card Acct"

This is not the Credit Card Processing Acct found in Configuration, Settings and Utilities, Option 9 as is for customer payments to your firm

Use the Address Book to enter a new address for your credit card company Name could be Discover Inc. Type – Vendor Address – If the remit to address is empty, pc/MRP will use the main address to print on the check

Use the Inventory Module to create a Credit Card Item with the holder's name, Part Number could be AP-000001 Part Type = Non-Inventory Description – Discover Credit Card J Smith Vendor would be Discover Inc. Asset/Expense Account would be blank for the simple method and 2011000 for the full method

## 14.5.12.2 Paying by Credit Card (Simple Method – for gas, meals etc., will not support 1099s)

If items such as gas, meals, etc. were purchased by credit card, leave the receipts in your in basket.

When the credit card bill arrives

Enter an AP Voucher for the first item on the bill Select Modules, Accounting, Accounts Payable, New AP Voucher Select Stores (receiving area does not matter) Select your Credit Card Part Number AP-000001 Otv = 1Select Discover Inc as the vendor Enter the amount of the purchase and add something like gas to the description Press OK Select the account you wish to debit pc/MRP: will automatically: Debit the account for the amount of the purchase Credit Accounts Payable for the amount of the purchase Repeat this for every item on the credit card bill When you have entered all the AP Vouchers Select Modules, Accounting, Pay Bills Print Checks Select Posted Only Select Your Bank Checking Account Check all of the AP Vouchers you entered above Select Print Checks Now, enter Beginning Check Number, put blank check in printer Select Output to print, check show check dialog window and press the OK Button Enter the credit card company's invoice number in the comments and check Print a Remittance List pc/MRP will automatically Debit Accounts Payable for the amount of every AP Voucher selected.

Credit Bank Checking for the amount of every AP Voucher selected.

Insert the amount paid and a Y in the complete field of every AP Voucher selected.

## 14.5.12.3 Paying by Credit Card (Full Method – partial payments ok, receiver not left open, supports 1099's)

See Initial Preparation 14.5.12.1 (Inventory part AP-000001 must contain 2011000 for the debit acct)

Enter your initial transactions Accounts Payable transactions For POs that have been received Enter an I type transaction for each of the Receivers Select Modules, Accounting, General Ledger Transactions, New, I Type Transaction Select the Receiver pc/MRP will automatically create the I Type Transaction and: Debit: Expense or Inventory depending on the purchase Credit: Accounts Payable Insert a Y in the receivers posted field. For items such as gas and meal enter Accounts Payable Vouchers Select Modules, Accounting, Accounts Payable, New AP Voucher Select Stores (receiving area does not matter) Select "No Part Number" Select the real vendor's address Otv = 1Enter the amount of the purchase and add something like gas to the description Press OK Select the account you wish to debit pc/MRP: will automatically:

Debit the account for the amount of the purchase

Credit Accounts Payable for the amount of the purchase

Insert a Y in the receivers posted field.

When you allow the vendor(s) to charge your credit card (this step can occur several times during the month): Select Accounting, Pay Bills Print Checks

Select your credit card chart of accounts number in this case Discover, <u>not</u> your bank checking account Select Assign Hand Check (this keeps pc/MRP from printing checks)

Check the Receiver(s) you wish to pay by credit card, the full amount of each bill, and put cc in Check #. pc/MRP will create E type transactions for each item you wish to pay. pc/MRP will:

Debit: Accounts Payable (for the full amount of each transaction)

Credit: Discover Credit Card (for full amount of each transaction)

Insert Y in complete field of the receiver(s)

Since a credit card account is credited, these transactions can be used for the vendor's 1099 form. Answer yes to print out a remittance list for your records

When you receive the credit card bill, create an AP Voucher for the amount due on the bill:

Select Modules Accounting, Accounts Payable, New AP Voucher,

Select Stores and the AP-000001 part number (This part number contains the credit card users name) The vendor will be the credit card company such as Discover, Qty = 1, Discover's Invoice if any

Price =  $1^{st}$  time Total Amount Due, after that do not include the previous balance

The AP Voucher will automatically create an I type transaction. pc/MRP will:

Debit: Discover Credit Card Chart of Accounts 20110000

Credit: Accounts Payable for the full amount due

When you pay the credit card bill:

Select Accounting, Pay Bills Print Checks

Select your bank checking account, not the credit card account.

Check the AP Voucher for the credit card bill, enter the amount you wish to pay, select Print, press OK

pc/MRP will create E type transactions for each item you wish to pay. pc/MRP will:

Debit: Accounts Payable for the amount you selected to pay

Credit: Bank Checking Account for the amount you selected to pay

Print out a check to addressed to your credit card company for the amount you selected to pay

### 14.5.13 Adjusting Inventory Asset Chart of Account Values

Debiting an asset account, increases its value and crediting it, decreases its value.

IF YOU HAVE SET pc/MRP TO "PERPETUAL ACCOUNTING METHODS" (OPTION 10 IN SETTINGS AND UTILITIES) IF YOU WISH TO INCREASE THE INVENTORY VALUE DEBIT THE INVENTORY ASSET CHART OF ACCOUNTS CREDIT THE COST OF SALES EXPENSE ACCOUNT NUMBER IF YOU WISH TO DECREASE THE INVENTORY VALUE DEBIT THE COST OF SALES EXPENSE ACCOUNT NUMBER CREDIT THE INVENTORY ASSET CHART OF ACCOUNTS IF YOU HAVE SET pc/MRP TO "PERIODIC ACCOUNTING METHODS" (OPTION 10 IN SETTINGS AND UTILITIES) IF YOU WISH TO INCREASE THE INVENTORY VALUE DEBIT THE INVENTORY ASSET CHART OF ACCOUNTS CREDIT THE PURCHASES EXPENSE ACCOUNT NUMBER IF YOU WISH TO DECREASE THE INVENTORY VALUE DEBIT THE PURCHASES EXPENSE ACCOUNT NUMBER CREDIT THE INVENTORY ASSET CHART OF ACCOUNTS

## 14.5.14 Purchasing a fixed asset (auto, capital equipment, etc.)

Debiting an asset account, increases its value and crediting it, decreases its value.

PUCHASING THE FIXED ASSET DEBIT : ASSET, FIXED ASSET ACCOUNT CREDIT: ASSET, BANK ACCOUNT OR LIABILITY, LOAN/NOTES PAYABLE ACCOUNT PAYING OFF THE LOAN DEBIT : LIANBILITY, LOAN/NOTES PAYABLE ACCOUNT CREDIT: ASSET, BANK ACCOUNT DEPRECIATION OF FIXED ASSET DEBIT : EXPENSE, DEPRECIATION EXPENSE ACCOUNT CREDIT: ASSET, ACCUMULATED DEPRECIATION FIXED ASSET ACCOUNT

## 14.5.15 Handling Dividends with pc/MRP

Do not debit or credit the YTD Retained Earnings Account directly in pc/MRP because pc/MRP handles this account automatically and if it sees additional debits and credits against the YTD Retained Earnings, pc/MRP will not automatically handle the YTD Retained Earnings Account.

You need to have 2 Chart of Accounts

- 1. "Provision for Dividends" Current Liability Credit Account
- 2. "Dividend" Expense or Equity Debit Account

If the "Dividend" is an Expense Account, the YTD Retained Earnings will be reduced. If the "Dividend" is an Equity Account, the YTD Retained Earnings will not be reduced. Talk to your CPA to determine what type of Account the Dividend Account is to be set to.

Journal Entries:

1. Board decides to give out dividends, make an Adjusting Entry: Debit Dividend / Credit Provision for Dividends

2. Accountant pays out dividend, make an Adjusting Entry: Debit Provision for Dividends / Credit Checking Account

# **14.6 Post the Month, Print Financials**

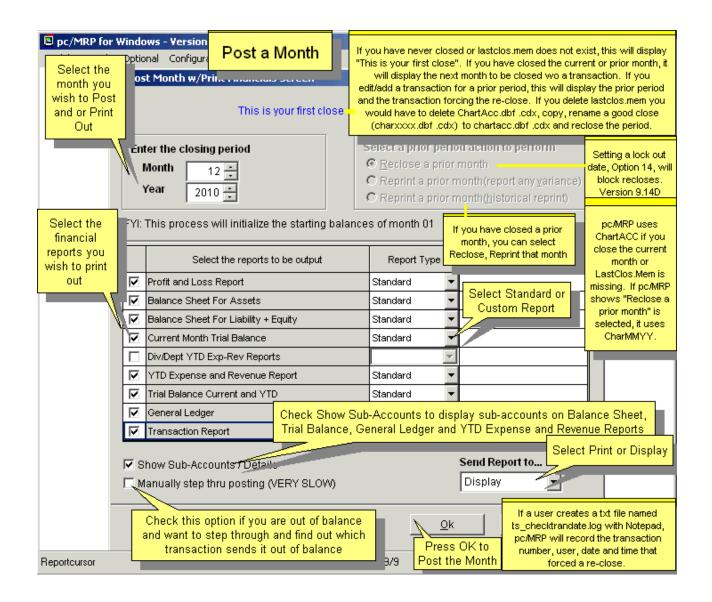
## 14.6.1 Post the Month and Print Financials Overview

(see slideshow here: http://www.pcmrp.com/mrp101/closemonthselectpostmonth.htm)

VFP - C:\V846 (User: D Modules Tools Optional	Configuration Manual Dev Post a Month	
Inventory  BOMs Stockroom Purchase Receive		
Work Order       Sales Order       Inyoice       Shipment		pc/MRP will create a CloseInProgress.Flg file when a close is started. It will clear itself in 1 hour if the close is aborted. The person who initiated the close can go back in immediately and reclose.
Address Book	GL Transactions Accounts Payable Pay Bills / Print / Clear checks	With pc/MRP Version 9.14D and higher, setting the Accounting Lockout Date with Configuration, Settings and Utilities, Option 14 will prevent the closing of all locked out months.
-	Accounts Receivable Batch Post Invoices Receive Customer Payment Reports	9.14D - 9.20B will not allow a re-close without set lockout date. Update to 9.20C and no lockout date is required to close.
-	Drill Down Rep Income & Expe       To close a month, reclose a month or reprint a close, select Modules, Accounting, Post Month and Print Financials.	To change your existing start of fiscal year to a new start of fiscal year (very rare), call Software Arts. They will back up everything, close the last month of the current year with the current start of fiscal
	Chart of Accour	year. If the financials are good for that year, set Option 5 to the new start of fiscal year, MOVE all historical closes to a sub-folder, delete lastclos.mem, zero out all balances prior to the last close, close the month after the prior close.
Close a Month and print Fina	Audit Transactions	

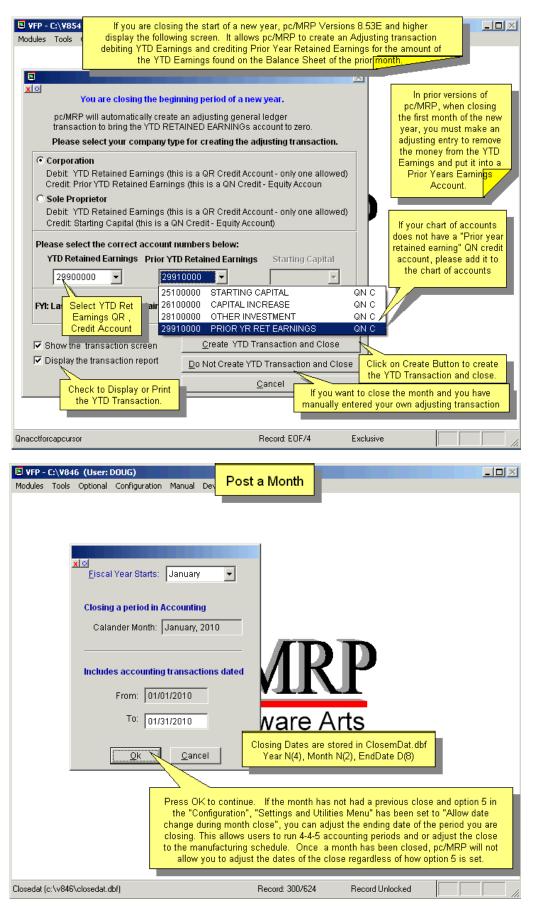
Post Month with Print Financials automatically retrieves each account's starting balance for that month and all of the financial transactions recorded during that month. pc/MRP then calculates the new balances for each account and will prompt users to choose from a variety of financial reports to be created based on the newly calculated figures. This process will safely guide and allow you to close and re-close the current month or any prior month in any prior year, provided pc/MRP has previously closed the prior period. The following is an explanation of how pc/MRP closes a month and is intended for those of you who would feel more comfortable knowing what happens when you are closing a month. It is also intended to serve as a first level technical support aid when trouble shooting a close.

To close or re-close a month, you would select "Modules", "Accounting", and "Post Month with Print Financials". pc/MRP will display the month and year of the current close (last month that was closed) and ask you to enter the month and year you wish to close.



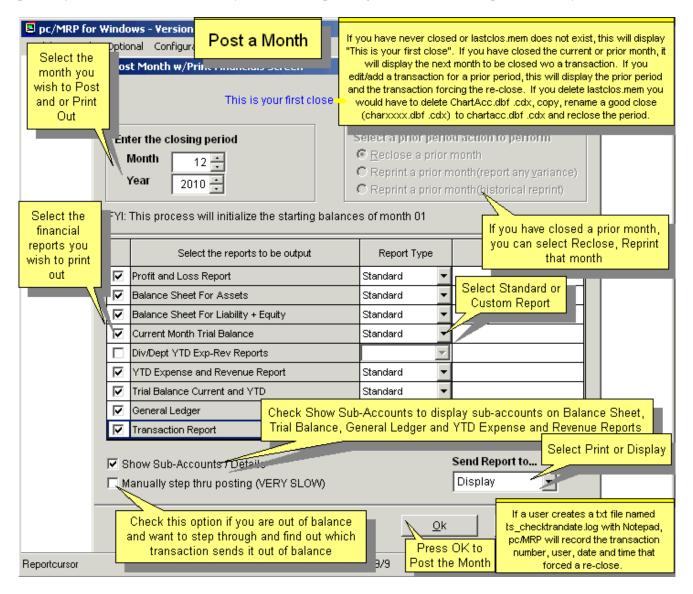
pc/MRP will create a file named **CLOSEINPROGRESS.FLG** when the close is started, to keep other users out from the Accounting module for the time of the close. In the case the close is aborted, this file will clear itself in one hour. The person who initiated the close can go back into the Accounting module and start the reclose again.

# 14.6.2 Closing, Re-closing the Current month, or Closing the Next Month



If you select to close, re-close the current month (displayed) or close the next month, pc/MRP will display the starting and ending dates of the month you selected to close (above).

pc/MRP will inform you that it will initialize the starting balances for the month following your close (below). pc/MRP will ask if you wish to step through posting. Answer "No" to step through posting (you would use this option if you were out of balance and you want to step through the re-close – this process is very slow).



Select "Display" or "Print" your financial statements.

Select "Standard" or "Custom" financial statements.

Select the financial reports you wish to print out from the screen shown below.

pc/MRP will begin closing the month by transferring the starting balance for the current month to the ending balance for each of the chart of account numbers in the chartacc.dbf file. pc/MRP will then use the transaction data base records to debit and credit the ending balances of each account as shown:

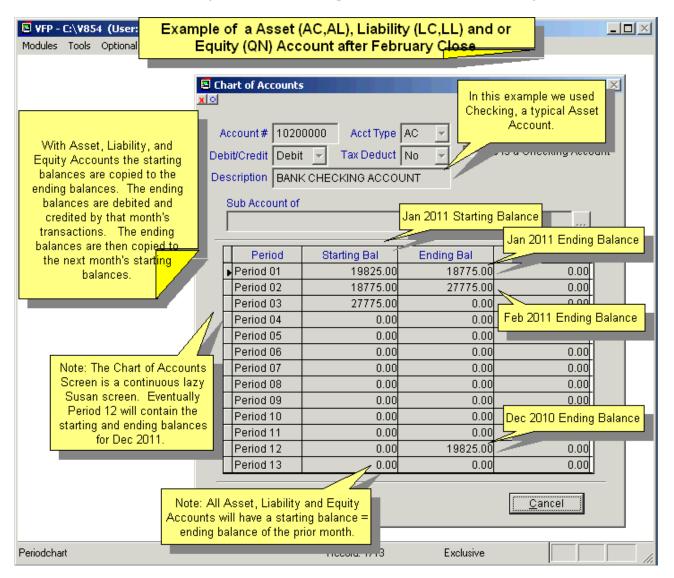
# Revenue Accounts (RN, RO) and Expense Accounts (EN, EO, EL, ET, EG)

	n Expense (EN,EO,EL,ET,EG), and or a Revenue	
	hart of Accounts In this example we used Rent, a typical Expense	
A	ccount# 61500000 Acct Type EN 🖃 Account.	
	bit/Credit Debit 🔽 Tax Deduct Yes 🔽	
Accounts, the starting balances are copied to the	scription RENT	
ending balances. The ending	Sub Account of	
balances are debited and	Jan 2011 Starting Balance	
credited by that month's	Jan 2011 Ending Balar	
transactions. \$0.00 is then copied to the next mon <mark>th's /</mark>	Period Starting Bal Ending Bal	ice
starting balances.	Period 01 0.00 1000.00 0.00	
	Period 02 0.00 1000.00 0.00	
	Period 03 0.00 0.00 0.00	
1	Period 04 0.00 0.00 Feb 2011 Ending Balan	ice
	Period 05 0.00 0.00	
	Period 06 0.00 0.00 0.00	
Note: The Chart of Accounts	Period 07 0.00 0.00 0.00	
Screen is a continuous lazy	Period 08 0.00 0.00 0.00	
Susan screen. Eventually	Period 09 0.00 0.00 0.00	
Period 12 will contain the starting and ending balances	Period 10 0.00 0.00 Dec 2010 Ending Balar	nce
for Dec 2011.	Period 11 0.00 0.00	
	Period 12 0.00 1000.00 0.00	
	Period 13 0.00 0.00 0.00	
have a starting ba	e and Revenue Accounts will alance of \$0.00 as Expense ust be reported by Month.	
Periodchart	Exclusive	11.

The starting balances are copied to the ending balances. The ending balances are debited and credited by that month's transactions. \$0.00 is then copied into the next months starting balances.

# Asset Accounts (AC, AL), Liability Accounts (LC, LL) and Equity Accounts QN

The starting balances are copied into the ending balances. The ending balances are debited and credited by that month's transactions. The ending balances are then copied into the next month's starting balances.



### **YTD Retained Earnings, QR**

When you close a month, the YTD Retained Earnings Chart of Account is handled as follows:

1. The starting balance for the YTD Account is transferred to the ending balance of the month being closed REPLACE &MENDBAL WITH MSTART

2. The starting balance of the NEXT month is populated with the total revenue for the month minus the total expenses for the month plus the YTD ending balance for the month REPLACE &MNSTARTBAL WITH &MENDBAL + MREVTOT – MEXPTOT

3. The Ending Balance of the YTD Account is debited or credited by any adjusting transactions for the month being closed.

The Trial Balance Reports will contain the YTD Retained Earnings Amount from the prior month as the profits are already reflected in the revenue and expense accounts. However, the Balance Sheet Reports will contain the YTD Retained Earnings amount for the month being closed.

VFP - C:\V854 (Use Modules Tools Option		ount after February Cl	lose	
Chart of Accounts		L-		
Account # 29900 Debit/Credit Credit Description YTD R The profit Dec was moved to the starting of the next month, J Period Period 01 Period 02	Tax Deduct No RETAINED EARNINGS s a bal	Account is inactive  When January was moved the starting bala ending balance. How YTD adjusting trans cleared out the ending the endigng b Feb contains th balance fo 0.00 0.1 8950.00 0.1	ance to the vever the saction g balance. alance for he starting r Feb	
Period 03 Period 04 The Febuary Start Balance contains en balance of January ( it was wiped out) plu	nding before in Feb is re us the starting ba	0.00 0.1 0.00 0.1 0.00 0.1 1,000.00 rent eflected in the ilance in Mar. in Dec is transformed 0.00 0.1 0.00 0	00 00 00 00 (\$0.00) ered to	restore YTD Retained ause it was incorrectly
Period 12 Period 13	ary. 0.00 0.00 0.00 0.00	0.00 0.1 0.00 0.1 0.00 0.1 0.00 0.1	Retained Earn month's SBAL SBAL of the n into the EBAL	rt the prior months YTD ings amount in the prior and EBAL and into the ext month. Insert \$0.00 of the next month to be e-close the next month.
<ol> <li>The starting balance</li> <li>The starting balance the month plus the YTD</li> </ol>	for the YTD Account is transf of the NEXT month is populate ending balance for the month	Chart of Account is handled as fo ierred to the ending balance of the ed with the total revenue for the m or credited by any adjusting trans	e month being closed onth minus the total expenses	

### The Profit and Loss Income Statement

The General Ledger Income Statement (glincome.frx) uses the chartacc.dbf to sum up and display the following totals for the month being closed:

- Gross revenue (sum of ending balances of all RN accounts)
- Cost of goods sold (sum of ending balances of all EG accounts)
- Gross net profit (gross revenue cost of goods sold)
- Cost of labor (sum of ending balances of all EL accounts)
- Operating Expenses (sum of ending balances of all EN accounts)
- Net profit before write-offs(gross net profit labor and operating expenses)
- Write-off expenses (sum of ending balances of all EW accounts)
- Net profit before other income (net profit before write-offs write-offs)
- Other income (sum of ending balances of all RO accounts)
- Other expenses (sum of ending balances of all RO accounts)
- Net profit before income taxes (net before other + other income other exp)
- Income taxes (sum of ending balances of all ET accounts)
- Net profit after income taxes(net profit before income taxes income taxes)

### The Balance Sheet

The asset balance sheet (prdebit.frx) displays the ending balance of all asset accounts. The Liability and equity balance sheet (prcrebit.frx) lists the ending balance of all liability and equity accounts except for the year-to-date retained earning accounts (QR), which lists the starting balance for the next month for that account. The YTD retained earnings for the starting balance of the next month consist of the ending balance for the current month plus the revenue-expenses for the month.

# The Trial Balance

The trial balance report (gltrial.frx) displays the ending balance for all charts of accounts except for the yearto-date retained earning accounts (QR), which lists the starting balance for the month for that account. This is because the Trial Balance report includes the Expense and Revenue accounts.

### The Year to Date Expense and Revenue Report

The YTD Expense and Revenue report (prytd.frx) list the ending balance of all revenue and expense accounts for the month and the year. With the profit and or loss total for the current month and year at the bottom. The YTD retained earnings is calculated by subtracting the YTD expenses from the YTD revenues.

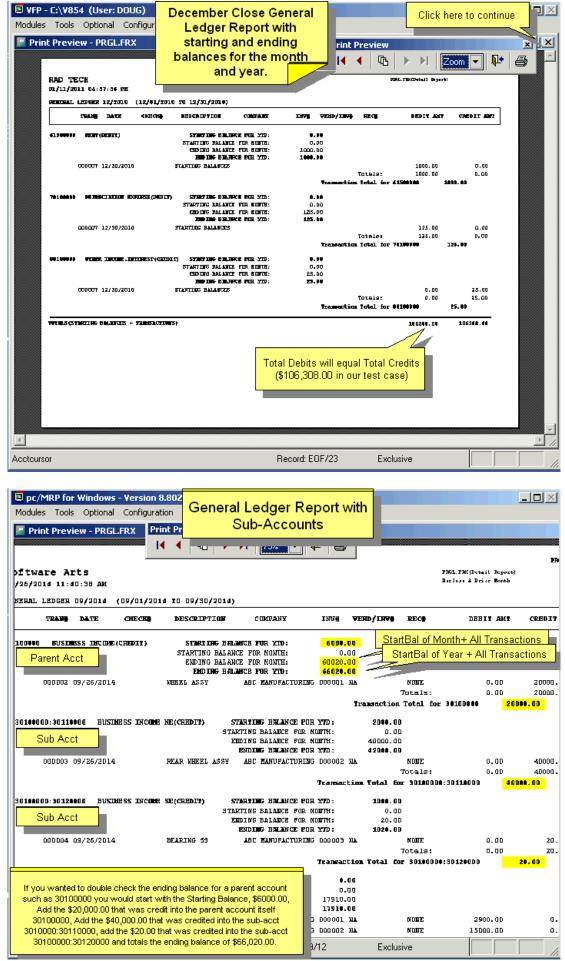
# The YTD Trial Balance Report

The YTD Trial Balance report always displays the ending balance for the month and the YTD. The YTD Ret Earn Trial Balance will always = \$0.00 as this report contains the Revenue & Expense account totals for the year.

### The General Ledger Report

The general ledger report (prgl.frx) displays the starting balance for the year, the starting balance for the month, the transactions for the month, the ending balance for the month, and the ending balance for the year for every chart of accounts that was debited or credited during that month.

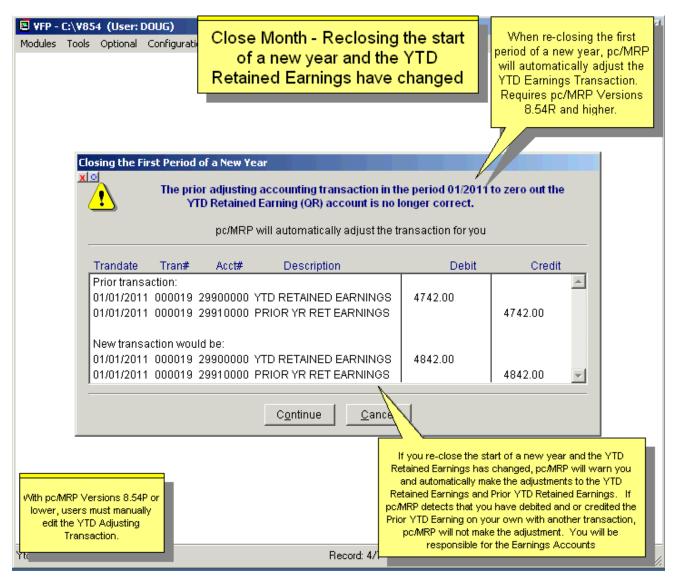
The ending balance for each account is the same amount that is displayed in the Trial Balance and Balance Sheets. The Ending Balance for each account can be calculated by taking its beginning balance, adding its Transaction Totals for each of its sub-accounts.



# **The Transaction Report**

The transaction report (prtran.frx) displays all accounting transactions entered for the month being closed. pc/MRP will make a backup copy of the chart of accounts data base file named charxxxx.dbf. For example if you were to close September 2017, the backup file name would be char0917.

# 14.6.3 Re-closing the start of a new year, and the YTD Retained Earnings have changed



### 14.6.4 Closing a Month in the Future When a Previous Month has Never Been Closed

pc/MRP will not allow users to close a future month where any previous month was not closed correctly. Months must be closed sequentially.

### 14.6.5 Closing a Prior Month or Fiscal Year where pc/MRP does NOT have a Backup Copy of that Month

If you select to close a prior month and pc/MRP does not have a backup of that month, pc/MRP will warn you that it has no backup copy of that month and then display the backup copies it does have.

### 14.6.6 Closing a Prior Month or Fiscal Year where pc/MRP DOES have a Backup Copy of that Month

Users can close, re-close, and print financials from any prior month or fiscal year. If you select to close a prior month and pc/MRP has a backup of that month (charxxx.dbf), pc/MRP will ask if you wish to "Reprint" or "Re-close" the month. Both options allow you to display or print the financial statements.

If users select "Reprint", pc/MRP will only reprint the Financials and NOT adjust starting or ending balances. The chart of accounts for that month will NOT be updated if any GL transaction edits or adjusting transactions were made. The detail on how pc/MRP accomplishes this is listed below.

pc/MRP accomplishes this by creating an empty cursor (file) from the current close (chartacc.dbf) and then populating the cursor account numbers and balances from the backup close (charxxx.dbf). After printing out the prior period, the cursor will automatically be deleted.

If you select "Re-close", pc/MRP will warn you that after the close, you must re-close every subsequent month up to the current month that has been closed. The details on how pc/MRP accomplishes this are listed below.

pc/MRP accomplishes this by creating an empty cursor (file). pc/MRP will populate the empty cursor file, by appending the chart of account records from the backup close. In addition, it will append the chart of account records (without their ending balances) from the current close that do not exist in the backup close. pc/MRP will replace the old chart of account descriptions with the current chart of account descriptions.

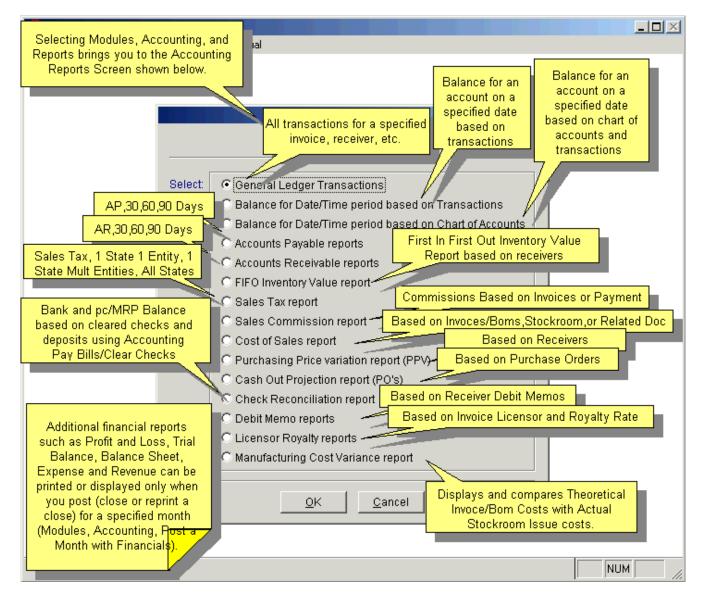
pc/MRP will ask if you wish to retain the current budget figures or the budget figures from the last close (this prompt only occurs if there were any changes to the budget figures). pc/MRP will then go through its normal close procedure as described above using the cursor instead of the chart of accounts data base file. Once the financial statements have been printed out, the cursor itself will become the current chart of accounts data base file (chartacc.dbf).

pc/MRP will make a backup copy of the chart of accounts data base file named charxxxx.dbf. You would now have to re-close all remaining months up to and including your current close in order to roll the new balances up into the current month.

# **14.7 Accounting Reports**

# 14.7.1 Overview

Selecting Modules, Accounting, and Reports brings you to the Accounting Reports Screen shown above. Financial reports such as Profit and Loss, Trial Balance, Balance Sheet, Expense and Revenue can be printed or displayed only when you post (close or reprint a close) for a specified month (Modules, Accounting, Post a Month with Financials).



### 14.7.2 General Ledger Transaction Reports

<b>VFP -</b> Modules		eneral Ledger Transactions sides of the tr				_		1 <u>×</u>
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				10200000	BANK	10000.00	0.00	
				12100000	STOCH INVERTORY	6000.00	0.00	
				25100000	STARTING CAPITAL	0.00	21000.00	
L	D COMBE		A	60100000	TALLIS	<b>500.00</b>	0.00	
				ZZ 100000	PAYROLL TAX PAY	0.00	<i>5</i> 0.00	
				10200000	BANK CHECK	0.00	450.00	
	STARTING BALANC		A	11100000	ACCTS RECEIVABLE	15000.00	a.oa	
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				10200000	BANK CHECHING	12000.00	0.00	
				11100000	ACCTS RECEIVABLE	a.oa	12000.00	
				61500000	RENT	1000.00	0.00	
				10200000	BANK CHECHING	0.00	1000.00	
				60100000	ADVERTISING	50.00	0.00	
				10200000	BANK CHECHING	0.00	50.00	
			1	61000000	INSURANCE	700.00	0.00	
		n this example total debits =		10200000	BANK CHECHING	0.00	700.00	
		total credits (\$51,908.00)		61400000	OFFICE EXPENSE	6.00	0.00	
				10100000	CASH ON HAND	0.00	8.00	
				10200000	BANK CHECHING	25.00	0.00	
				80100000	OTHER INCOME	0.00	25.00	
							ŀ	٠ſ
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This report displays all accounts debited or credited for every transaction displayed. This report can be filtered as shown below:

Month Time period Balance for a specific date All transactions regardless of time

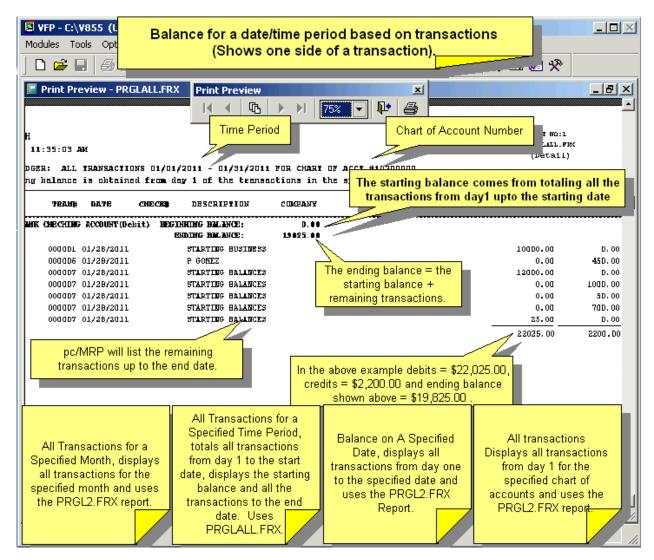
Include all transactions for a:

Chart of accts # Vendor/customer acct # Check # Related Document # Invoice # Receiver # All transactions

Types of transactions to include:

All Cash sales only (S) Receivable vouchers only (O) Receivable payments only (R) Cash purchases only (P) Accounts payable vouchers only (I) Payable payments only (E) Payroll checks only (W)

### 14.7.3 Balance for a Date or Time Period Based on Accounting Transactions



This report displays <u>only the specified account for every transaction displayed (T Accounts)</u>. This report uses only accounting transactions as a basis to form the report. This report can be filtered as shown below:

Month

Displays all the transactions for that account for the specified month.

Time period

Totals all the transactions from day 1 to the start date, displays the starting balance, all the transactions from the starting date to the end date and the total amount debited and credited during that time period. Balance on a specific date

Displays all transactions from day 1 for the specified chart of accounts up to the specified date All transactions

Displays all transactions from day 1 for the specified chart of accounts

### 14.7.4 Balance for a Date or Time Period Based on Chart of Accounts

Modules Tools (1	nce for a date/time counts (Shows on	· ·		
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TRANH DATE CHECKH DESCRI	IPTION CIMPANY	IRAH ANDVILLA	1 REC#	BII ANI CREDIT ANT
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This report is only correct for asset, liability, and equity accounts and will not be correct for expense and revenue accounts.	pc/MRP Versions 8. and higher can retrie the starting value for date that has been clo in the past. With pc/N versions 7.94 and low this report is valid for starting dates beginin the past 12 monthe	eve any osed 4RP ver, or g in	transactions.	T
tandard				

This report displays <u>only the specified account for every transaction displayed (T Accounts)</u>. This report uses the starting balance of the month from the chart of accounts plus the transactions up to the ending date as a basis to form the report. This report is only correct for asset, liability, and equity accounts and will not be correct for expense and revenue accounts.

You will be prompted to enter the chart of account number, start date and end date. You can select a starting date from any month that has been closed in the past. pc/MRP will locate the starting balance at the start month from the chart of accounts database files, total all the transactions up to the start date, display the starting balance for the start date, display all the transactions up to the end date and the total of the starting balance and transactions.

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You can select all open, all closed and aging reports of 30, 60 and 90 days.

If you run an open accounts payable summary report and the balance due for a receiver is less than or equal to 0 and the complete field does not contain a Y, the customer PO# field will contain the words Error Unmarked. You can edit the receiver record and put a Y in the complete field.

# 14.7.6 A/R Reports

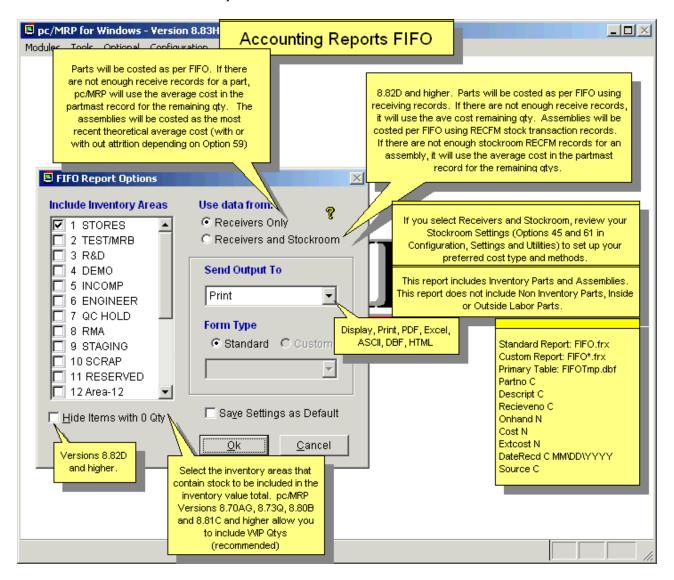
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Sorted and Grouped by Customer Account Number and Invoice	0-	29 29	-59 60	30.00 30.00 I Due 2-09 ays	Bal Due > 90 Days	36.04 5603.05 Total Due	
If you want to match the Accounts Receivable Balance, check Posted Transactions Only. If unchecked, nvoices that accounting has not posted yet will be included.	With pc/MRP \ 8.50P, 852C and creating a file ArCompleteOnly display only in who's Complete not "Y" and will i amount paid	d higher, named y.Flg will woices Field is gnor <del>e the y</del>	8.50 a Sumr promp new ind index pose standa	c/MRP V nd higher, mary Repo t you to c dependent on the re sibility that ard invoice ild be corr	an AR ort will reate a invoice emote t the e ind <mark>ex /</mark>		
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You can select all open, all closed and aging reports of 30, 60 and 90 days.

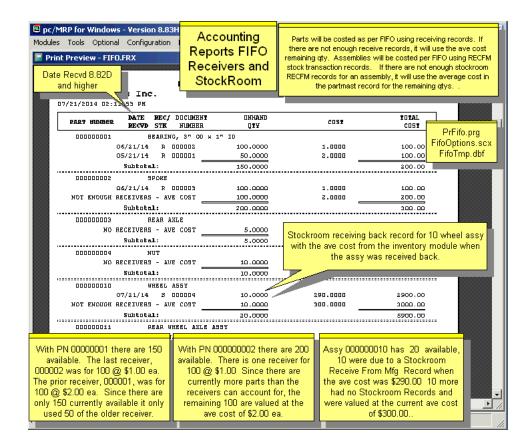
# 14.7.7 FIFO Inventory Value Report

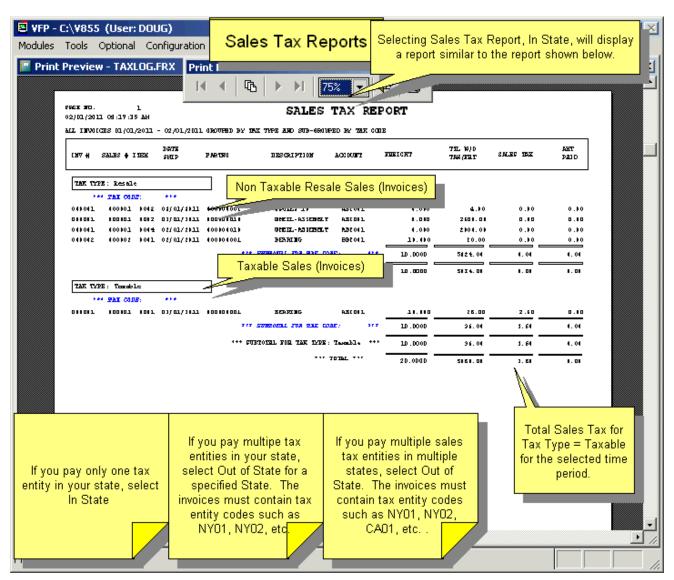
Select the inventory areas that contain stock to be included into the inventory value total.

It is recommended to include WIP quantities.



Modules	RP for Windows Tools Optiona Preview - FIFC Software A 17/21/2014 01:	I Cor Date D.FRX avail versio and	BH Recvd able on ns 8.82D higher	Accounting Reports FIFO Receivers Only	Assemblies Cost. This Inventory Part pc/MRP Ver 8.81C and I	t includes Inventory Par s. Assemblies are value s report does not includ ts, Inside or Outside La sions 8.70AG, 8.73Q, 8 higher allow you to inclu Ωtys (recommended)	d at Ave e Non bor Parts. 9.80B and
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The sales tax report option prints and or displays a sales tax report for a specified time period. The sales tax reports will include all invoices entered during the time period you specify.

If you select In State, pc/MRP will sort and subtotal sales taxes due on the invoice tax type, such as taxable, resale, out of state, US government, etc. The report (taxlog.frx) will consist of invoices created during the time period specified. The invoices must contain sales tax type (automatically inserted from sales orders into invoices). If you create a custom in state report, it must be named ctaxlog.frx.

If you select Out of State, pc/MRP will sort and subtotal sales taxes due by the invoice state and tax entity code such as CA01, CA02, NY01, etc. The report (taxlogo.frx) will consist of invoices created during the time period specified. The invoices must contain tax entity code (automatically inserted from the address book into sales orders and then into invoices). If you create a custom out of state report, it must be named ctaxlogo.frx.

If you select Out of State for a specified state, pc/MRP will sort and subtotal sales taxes due by the tax entity code such as CA01, CA02 for the specified state such as CA. The report (taxlogo.frx) will consist of invoices created during the time period specified for the specified state. The invoices must contain tax entity codes (automatically inserted from the address book into sales orders and then into invoices). If you create a custom out of state report, it must be named, ctaxlogo.frx

If you are required to pay state sales taxes for only the county you are based in, print out the in state report.

If you are required to pay state sales taxes for other counties in your state, print out the instate report and the out of state report for a specified state (yours.)

If you are required to print out sales taxes to two or more states, print out the instate report and the out of state report.

Modules		ons 8.55B and higher v lace of several screen			Display, Print, PDF, Excel,
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trans correc tax i differ option iter commis on the	evenue and S, Cash Sale sactions. This option will not tly calculate and subtract the f the invoice line items have rent tax rates. Warning, this uses the salesman from line m 1 on the invoice and the ssion % from the last line item e invoice and does not handle credit memos correctly.	Option 2 use the date the invoice was entered and not on payment of the invoice.	complete f calculate Commiss items are higher (dateship) Memo will	asis the commissions on ields in the invoice. This o and subtract mixed tax rat ions will only be reported paid in full. Versions 8.7 will include indep credit m during the specified period ref the salesman if you se voice when creating the in	ption will correctly tes on an invoice. when invoice line OAB, 8.72Q and emos created I. The indep Credit elect Get Info from

#### 14.7.9 Sales Commission Report

Prints out or displays a Sales Commission Report for a specified month, subtotaled by Salesman. Commissions can be based on:

Payments received during a specified month in the accounting module.

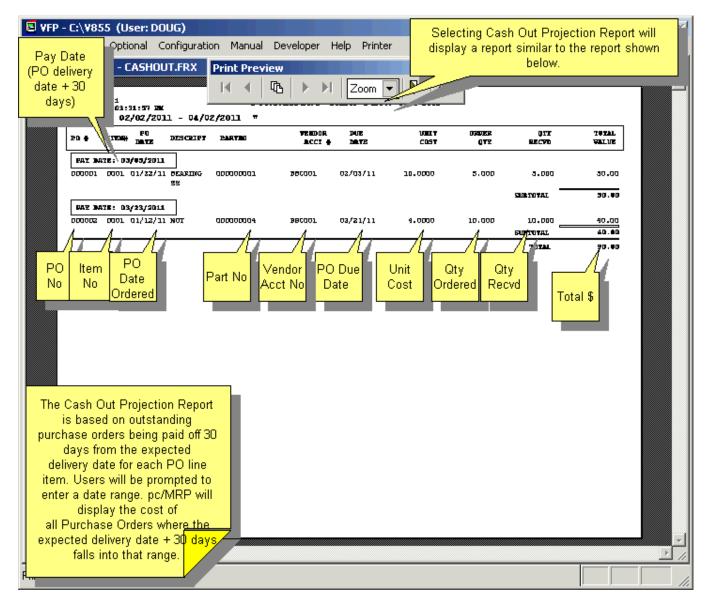
This option bases the commissions on the accounting's R, Revenue and S, Cash Sale transactions. This option will not correctly calculate and subtract the tax if the invoice line items have different tax rates, and does not handle credit memos correctly.

Invoices issued during the specified month.

This option bases the commissions on the date the invoice was entered and not on payment of the invoice. Date the invoice line items were paid in full.

This option bases the commissions on the date paid and complete fields in the invoice. This option will correctly calculate and subtract mixed tax rates on an invoice. Commissions will only be reported when invoice line items are paid in full.

# 14.7.10 Cash Out Projection Report (POs)



The Cash Out Projection Report is based on outstanding purchase orders being paid off 30 days from the expected delivery date for each PO line item. Users will be prompted to enter a date range. pc/MRP will display the cost of all Purchase Orders where the expected delivery date + 30 days falls into that range.

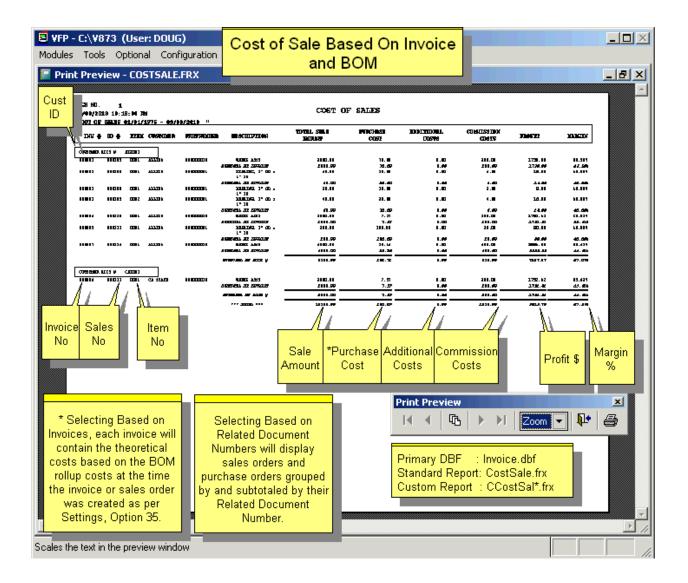
# 14.7.11 Cost of Sales Report

Cost of Sales Report based on

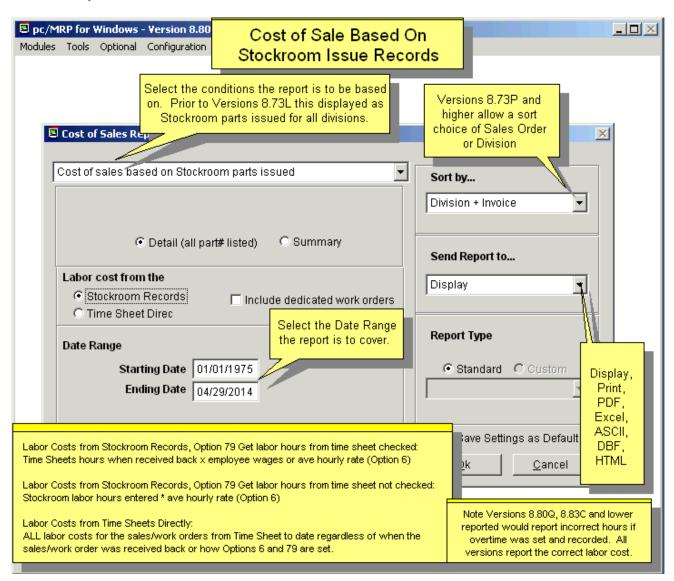
- 1. Invoices and Related BOMs (Theoretical Cost),
- 2. Stockroom and Employee Time Sheet (Actual Cost), and or
- 3. Related Document Numbers (Purchase Orders contain the sales order number its Related Document Number Field).

pc/MRP will allow you to print out a cost of sales report for a specified month based on invoices. Each invoice contains theoretical cost of the BOM based on cost-roll-ups or the cost based on stockroom transactions issued to those invoices. pc/MRP's Configuration Menu, Option 35, will allow you to select how the cost of sale for each invoice is obtained.

If the costs are populated from inventory, **Option 35** defines if standard or average costs will be in the cost of sale. For costs to work correctly from inventory all parts in inventory must have a standard or average cost populated and the "Cost Roll Up Option" in inventory module must be ran periodically to update the cost of all assemblies.

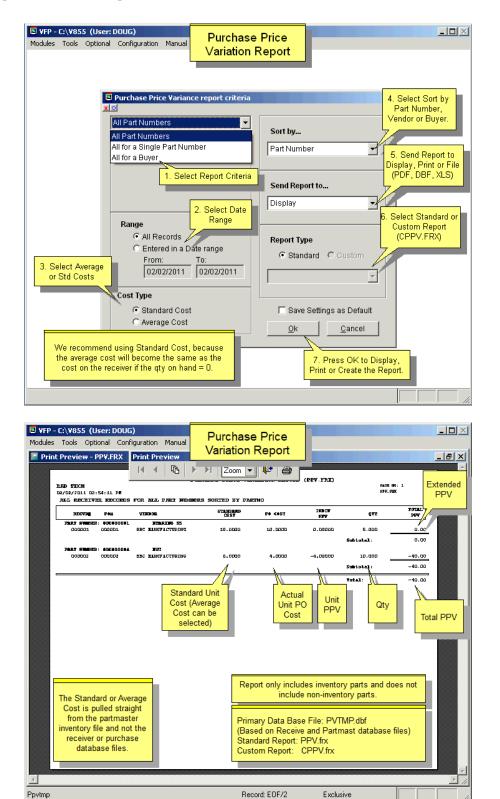


You can sort by Sales Order or Division.

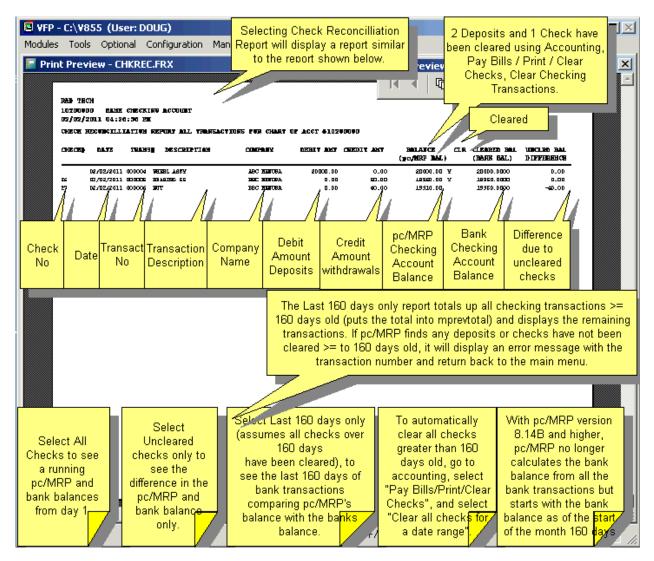


### 14.7.12 Purchasing Price Variance Report

Accounting's Purchase Price Variance Report compares standard costs or average costs listed in the Inventory Module with the actual purchase price from the receiver. Purchasing can use this report to show management the cost savings per month over list prices.



## 14.7.13 Check Reconciliation Report



pc/MRP allows you to print out a check reconciliation report for all checks or uncleared checks only. Select **All** checks to see a running pc/MRP and bank balances from day 1. Select **Uncleared checks only** to see the difference in the pc/MRP and bank balance only. Select **Last 160 days only** (assumes all checks over 160 days have been cleared), to see the last 160 days of bank transactions comparing pc/MRP's balance with the bank's balance.

Select how you would like this report sorted: by transaction number, date, or check number. Enter the checking accounts chart of accounts number. pc/MRP will then display/print the reconciled running balances between the bank statement and pc/MRP's transaction files. The balance column contains pc/MRP's balance. The cleared balance column contains the bank's balance. The uncleared balance column contains the differences in the two balances.

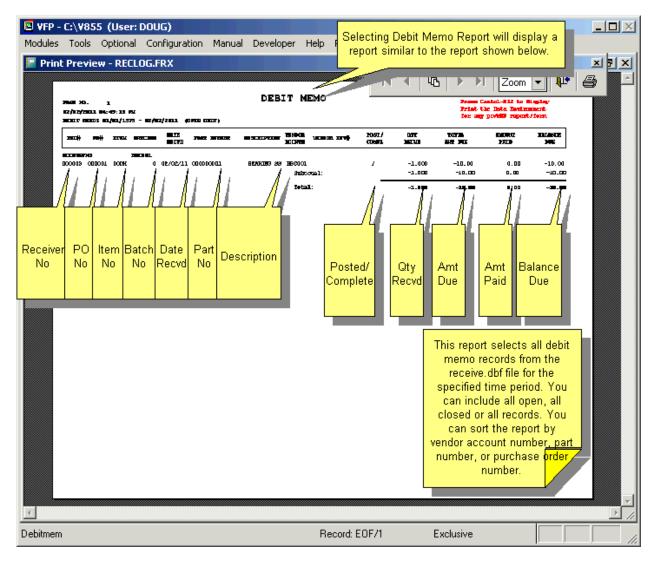
The Last 160 days only report first totals up all checking transactions greater than or equal to 160 days old. If pc/MRP finds any deposits or checks have not been cleared over or equal to 160 days old, it will display an error message with the transaction number and return back to the main menu. If all the 160 days and older checks have been cleared, pc/MRP puts the total of all the checks into a memory variable named mprevtot. It then goes on to create a report listing each checking transaction less than 159 days old, a running balance for pc/MRP, a running balance for the bank, and the difference based on if the check cleared or not.

It assumes the starting balance for the bank account six (6) months ago is correct and inserts that balance into the first transaction shown on the report.

To automatically clear all checks greater than 160 days old, go to accounting, select "Pay Bills/Print/Clear Checks", and select "Clear all checks for a date range".

pc/MRP does not calculate the bank balance from all the bank transactions but starts with the bank balance as of the start of the month 160 days back.

### 14.7.14 Debit Memo Reports

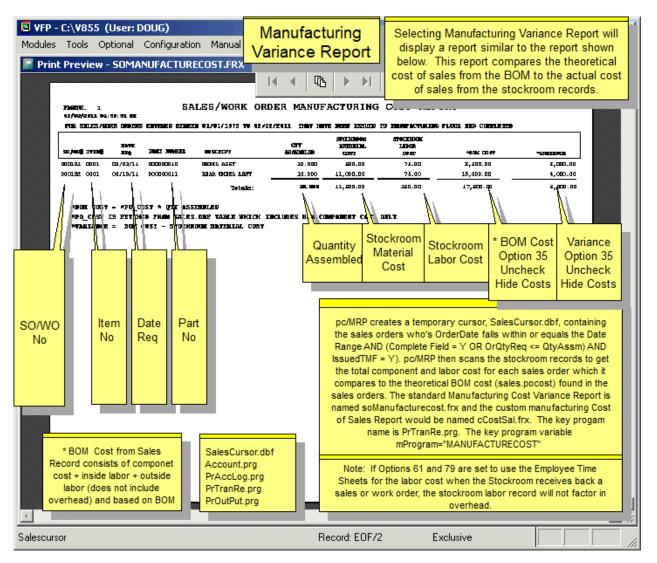


This report selects all debit memo records from the receive.dbf file for the specified time period. You can include all open, all closed or all records. You can sort the report by vendor account number, part number, or purchase order number.

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Print Preview - ROY	ALTY.FRX		Y DETAIL REPORT		
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nvoice Item Ship No No (Invoice Date)	Item Part No Descripti	ion Unit		ptal Royalty Royalt ount Rate Amour	
4				You can display/ Royalty Report for licensors for the tim The report is sorte sub sorted by par price, or royalty rate the invoice databas contain the name of royalty rate which inserted into the s database files fro database	one licensor or all e period specified. d by licensor and t number, sales e. The report uses use file which will f the licensor and is automatically sales and invoice m the part <mark>mast</mark>

You can display/print a Licensor Royalty Report for one licensor or all licensors for the time period specified. The report is sorted by licensor and sub sorted by part number, sales price, or royalty rate. The report uses the invoice database file which will contain the name of the licensor and royalty rate which is automatically inserted into the sales and invoice database files from the partmast database file.

### 14.7.16 Manufacturing Cost Variance Report



Users can display/print a manufacturing variance report comparing the theoretical cost of sales (from the BOM) to the actual cost of sales (from the stockroom records). pc/MRP prompts the user to enter a date range for the order date of the sales orders to be included. pc/MRP creates a temporary cursor, SalesCursor.dbf containing the sales orders selected. pc/MRP then scans the stockroom records to get the total component and labor cost for each sales order which it compares to the theoretical BOM cost (sales.pocost) found in the sales orders. The standard Manufacturing Cost Variance Report is named soManufacturecost.frx and the custom Manufacturing Cost of Sales Report would be named cCostSal.frx.

### 14.7.17 Accounting Report Errors

Accounting report errors can occur due to duplicate transaction numbers, duplicate blank transaction numbers, and incorrect dates. Accounting's Audit Option will automatically locate these transactions and allow you to correct them. Duplicate transaction numbers can cause an accounting report to loop on the duplicate number. To correct this delete one of the first duplicate transaction number. If necessary, the transaction can be re-entered with a new transaction number. Duplicate blank transaction numbers can cause an accounting report to loop on the blank transaction printing out only lines and no transactions. To correct this, delete the blank transaction numbers. Invalid dates such as 03/99/14 can cause a transaction report to skip all remaining transaction for month 03. Use the accounting audit option to locate any invalid dates and then edit the transaction's date.

# **14.8 Accounts Payable**

## 14.8.1 Enter an Accounts Payable Voucher

BOMs  Stockroom		
Work Order       Sales Order       Invoice       Shipment       Address Book	7 Turun dina	
E <u>≾</u> it A B P A B B B B D I I I I I I I I I I I I I I I	gL Transactions       Image: Constraint of Constraints o	New AP Voucher Edit / Viewoucher Print V Print E Print S Print

To set up your AP Voucher Payments you must first enter AP Voucher Part Numbers into your Inventory Part Number List. The part number could start with AP- to keep all your AP Voucher Part Numbers in one place. The Part Type should be Part – Non Inventory. Enter the cost you would pay (such as rent). Enter the vendor and the Asset/Expense Account that is to be debited when the AP voucher is automatically posted. For example, if you were entering rent as an accounts payable voucher you would debit 6150 for rent and not 4110 for purchases.

To enter an Accounts Payable Voucher, select Accounting, Accounts Payable, New AP Voucher as shown above.

When entering an accounts payable voucher pc/MRP will issue the next available **Receiver Number**. The **PO** # will contain the word "NONE" and the **Item** Number will contain the letters "00AP". Select the **Part Number** if applicable buy clicking on Part Lookup, then select/accept the **vendor**. Or, enter "NA" if there is no part number. Accept or overwrite the **price** and **quantity**.

VFP - C:\V888 (User: DOUG) Modules Tools Optional Configu	Accounts Payable Vo pc/MRP Version 8		
Creating a New Record			Document Currency
PO # NONE	Last Change / / Date Received 07/08/2014		BASE CURRENCY
Vendor Informatio	n Shipping Info	ormation	Item Information
Vendor Acct # BBC001		Vendor Invoice # 12	347
Vendor Name BBC MAN	IUFACTURING COMPANY	Scroll Vendor Contact JO	
ATTN: JO	E SMITH	Vendor Phone 980	D-11: 2. Enter the Vendor's Invoice Number
Street 111 SOU	TH MAIN STREET	Vendor Fax 980	0-111
City RICHVIEV	V .	Terms NE	T 30 🔽
State / Zip CA	88888	Related Doc #	
Country			
Item Part Number	Rev Description Part Lookup	Man	ufacturer
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number, vendor's addre	ss, and the account to 🔄		Location Area
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	3. Press the OK Butto debit the expense accor		NCNR Item
<u>e</u>			Ok <u>C</u> ancel
Vendor's Invoice Number			

**Date Received** is automatically entered as today's date and is used by the Accounting Module in aging the Accounts Receivables records. After you examine the vendor's terms enter the **Date to be Paid**.

**Description, Manufacturer, Model Number, Order Qty, Unit, Freight Bill Number, Condition, Collect, Prepaid, Number of Packages, Weight, Delivered To, and Inspected By** must be entered manually if they are applicable. **Vendor Address, Terms, Account Number, Trade Discount, Tax Rate,** and **Freight** can be entered automatically from the Address Book and can be written over if no longer correct.

**Vendor Invoice** # must be entered when the vendor sends their invoice. This can be done by editing the Receiver or by entering a Payment Transaction in the Accounting Module. The Complete field is automatically changed to a Y when Accounting enters a transaction paying off this debt.

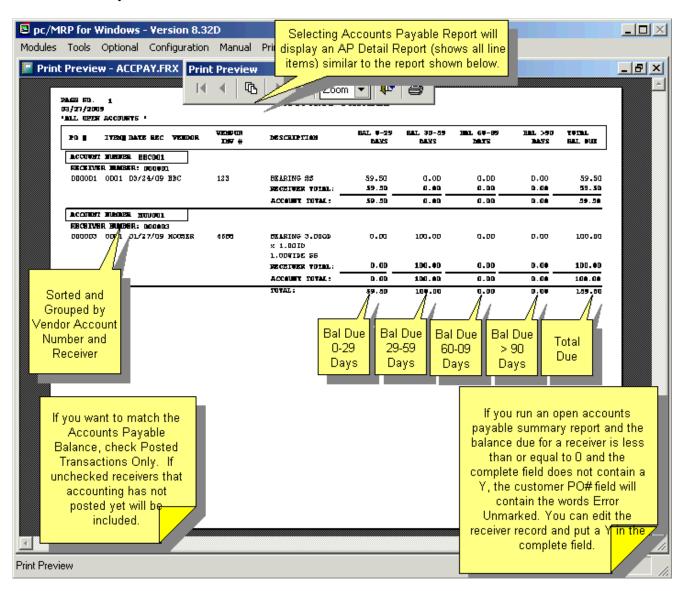
### 14.8.2 Edit/View an Account Payables Voucher

This option allows users to scroll, edit, delete, undelete, or run queries against AP Voucher records.

Since entering an AP Voucher automatically enters a general ledger transaction, editing an accounts payable voucher automatically takes you to the general ledger editing routine.

# 14.8.3 Print Detail Report

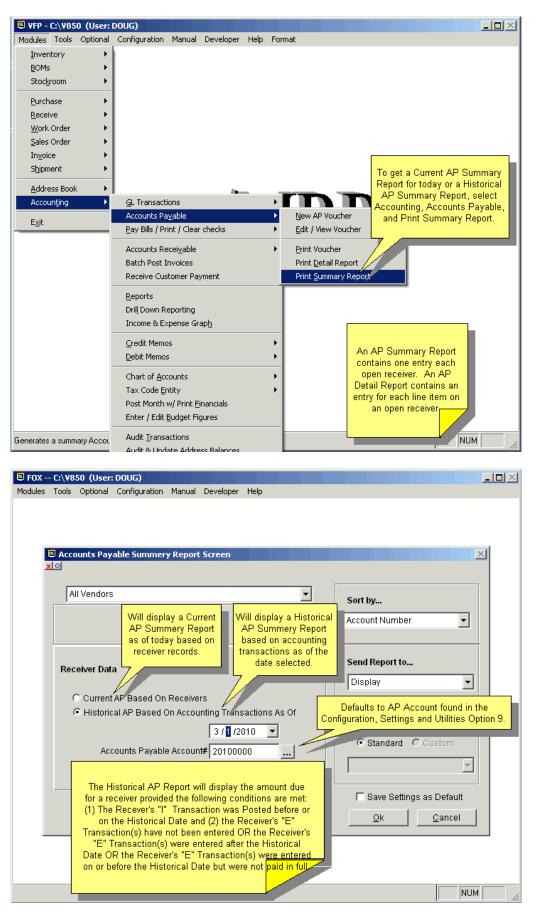
Selecting the accounts payable report option will provide a consolidated printout of all accounts or a single account subtotaled on receiver and account numbers. The balance due amounts are totaled in the 0-29, 30-59, 60-90, and Over 90 days columns.



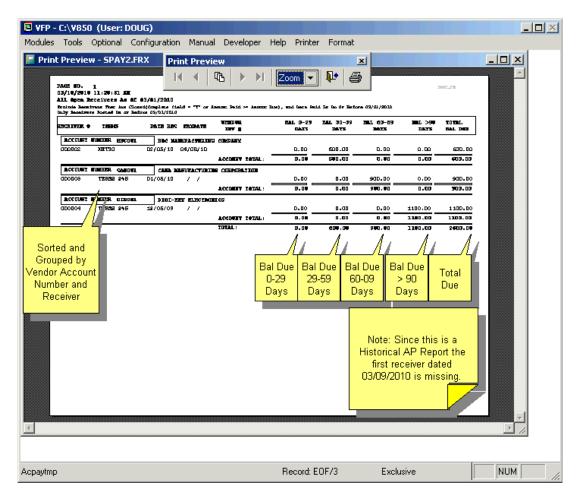
Additional accounts payable reports can be obtained by using the Receiving Report Module. The Receiving Report Module provides a variety of sorts and conditions for open and closed receivers. An open receiver is one that has not been paid and a closed receiver is one that has been paid (the **Complete** field contains a Y).

pc/MRP includes the option to print out posted receivers only. This means the accounts payable report will include only those open receivers that have been entered into the general ledger as an "I" type transaction. The advantage of selecting "Posted Receivers Only" is that it guarantees that the accounts payable \$ amount in the financial statements will match the accounts payable \$ amount in the accounts payable report, provided they are both printed on the same day with no new transactions entered between printouts.

#### 14.8.4 Print Summary Report



If you are generating a Historical AP Summary Report and pc/MRP finds one or more receivers marked as complete with an empty Date Paid field, the following message will be displayed. "Some of the closed receivers do not have a date paid. You can click on View Error for a list of these receivers; or click Continue to ignore the message and possibly have the report incorrect; or click Cancel to edit the receivers and later run the report again with corrected data.



If you run an open accounts payable summary report and the balance due for a receiver is less than or equal to 0 and the complete field does not contain a Y, the customer PO# field will contain the words, Error Unmarked. You can edit the receiver record and put a Y in the complete field.

### 14.8.5 Pay Bills / Print/Clear Checks

See Chapter 14.14 Pay Bills Option, for instructions on paying bills.

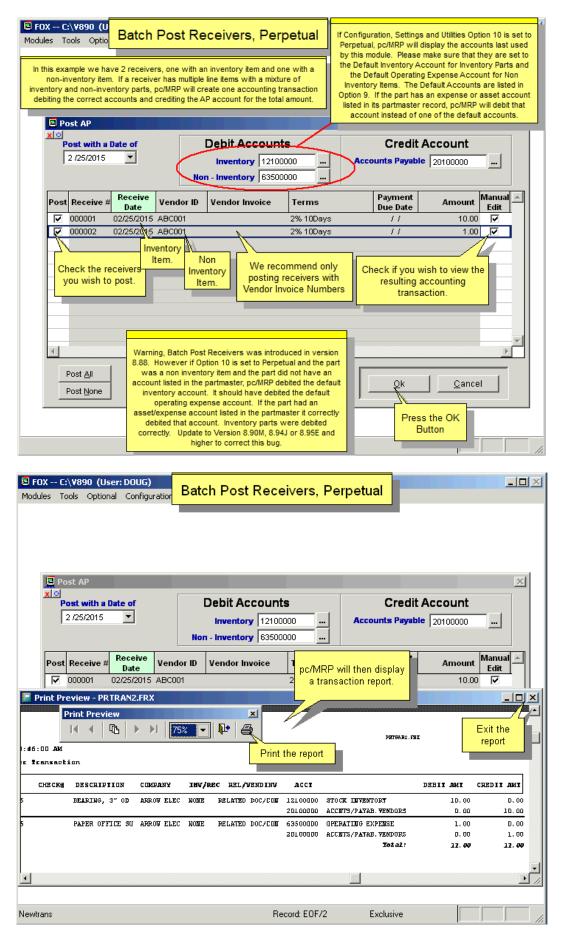
### 14.8.6 Batch Post Receivers

To batch post receivers, select Modules, Accounting, Batch Post Receivers.

Your Accounting Method (Perpetual or Periodic, set in Configuration, Settings and Utilities, Option 10) determines which accounts should be debited. Please check your setting before proceeding.

pc/MRP will display the accounts last used by this module. Please make sure that they are set to the Default Inventory Account (Perpetual) or to the Default Purchases Account (Periodic) for Inventory Parts; and the Default Operating Expense Account for Non Inventory Items. The Default Accounts are listed in Configuration, Settings and Utilities, Option 9.

**Note:** If the part has an expense or asset account listed in its partmaster record, pc/MRP will debit that account instead of one of the default accounts.



For Periodic Accounting Method:

	Batch Post Rec	eivers, Perpe	tual	
Post AP	Debit Accour	-4-	Credit A	×
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	Non - Inventory 6350			
Date	dor ID Vendor Invoice	pc/MRP will th		Amount Hanual Amount
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# 14.9 Accounts Receivable

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Modules Tools Optional	Configuration Manual Developer Hel (	lp	
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Sales Order			
In <u>v</u> oice			
Shipment •			
Address Book	L		
Accounting 🕨 🕨	<u>G</u> L Transactions		
Exit	Accounts Payable		
	Pay Bills / Print / Clear checks		
	Accounts Recei <u>v</u> able	New AR Voucher	
	Batch Post Invoices	Edit / View Voucher	
	Receive Customer Payment	Print <u>D</u> etail Report	
	Reports	Print Summary Report	
	Drill Down Reporting	Print Billing Statement	
	Income & Expense Grap <u>h</u>	Print Payment History	
	Credit Memos	•	
	Debit Memos		
	Chart of <u>A</u> ccounts	•	
	Tax Code <u>E</u> ntity		
	Post Month w/ Print <u>Fi</u> nancials		
	Enter / Edit <u>B</u> udget Figures		
Receivable vouchers & repo	Audit Transactions		NUM
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# 14.9.1 Enter an Accounts Receivable Voucher

Allows you to enter an AR Voucher without having to create a sales order and invoice.

However, we recommend entering a Sales Order, On Account and Carry instead of an AR Voucher. Entering a sales order 'On Account and Carry' is simpler and more automated than entering an AR Voucher. Entering a Sales Order, On Account and Carry creates a completed sales order and an invoice. If **Option 8**, Auto Accounting is set on for Invoices, it will also make a General Ledger entry, debiting AR and crediting Business Income.

Entering an AR voucher will automatically create an O type transaction debiting AR and crediting Business Income (regardless of how Option 8 is set). See Section: 14.4.1.2.

### 14.9.2 Edit an Accounts Receivable Voucher

This option allows users to scroll, edit, delete, undelete, or run queries against AR voucher records.

Since entering an accounts receivable voucher automatically enters a general ledger transaction, editing an accounts receivable voucher automatically takes you to the general ledger editing routine.

### 14.9.3 Print/Display Accounts Receivable Reports

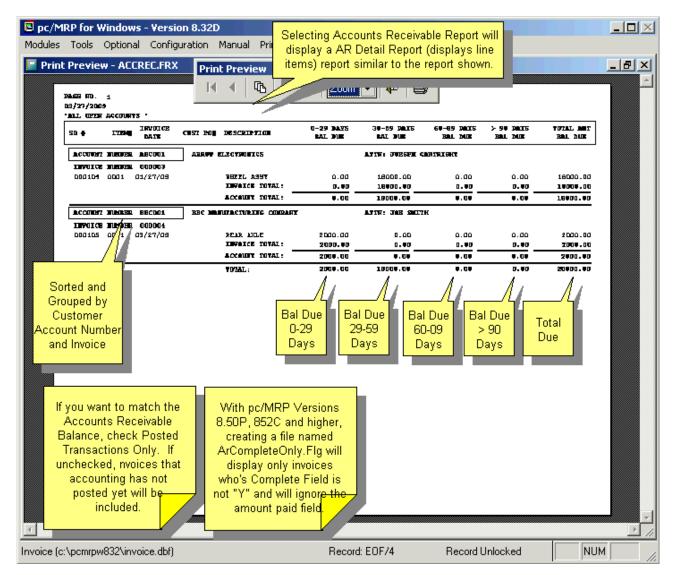
Selecting the accounts receivable report option will provide a consolidated printout of all accounts or a single account subtotaled on invoice and account numbers. The balance due amounts are totaled in the 0-29, 30-59, 60-90, and Over 90 days columns.

Additional accounts receivable reports can be obtained by using the Invoice Report Module. The Invoice Report Module provides a variety of reports for open and closed invoices. An open invoice is one that has not been paid and a closed invoice is one that has been paid (the complete field contains a Y).

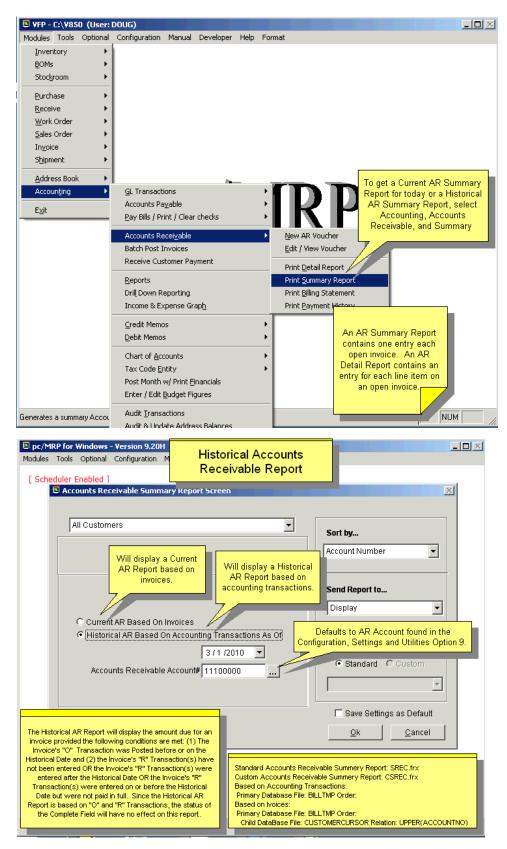
Since invoicing an item automatically creates an accounts receivable voucher, you may end up with some unwanted accounts receivable records. These records can be eliminated from showing up on the Accounts Receivable Report by using the Invoice Edit Module and entering a Y in the Complete field.

pc/MRP offers the option to print out posted invoices only. This means the accounts receivable report will include only those open invoices that have been entered into the general ledger as an "O" type transaction. The advantage of selecting "Posted Invoices Only" is that it guarantees that the accounts receivable \$ amount in the financial statements will match the accounts receivable \$ amount in the accounts receivable report, provided they are both printed on the same day with no new transactions entered between printouts.

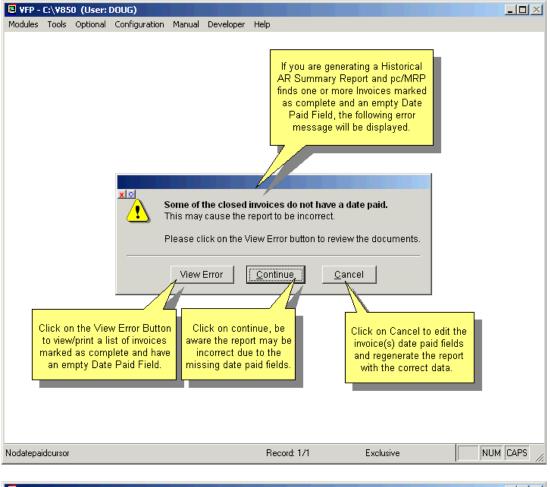
### 14.9.3.1 Accounts Receivable Detail Report

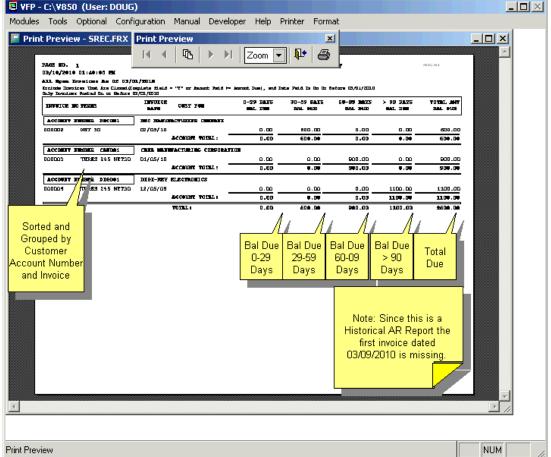


#### 14.9.3.2 Accounts Receivable Summary Reports



The AR Summary Report will prompt you to create a new independent invoice index on the remote possibility that the standard invoice index could be corrupt. **Note:** Since the Historical AR Report is based on "O" and "R" transactions, the status of the Complete field on the invoice will have no effect on this report.





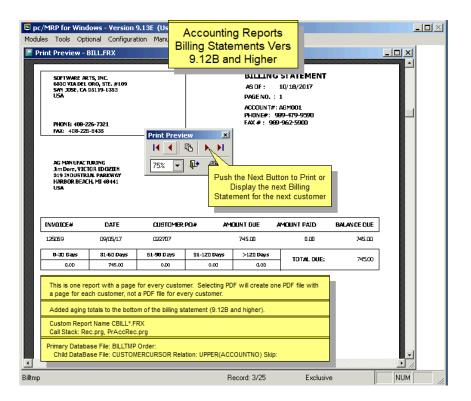
# 14.9.4 Print/Display Billing Statements

Allows you to print out a Billing Statement for every open account in accounts receivable. This report will update the balance due fields in the address book

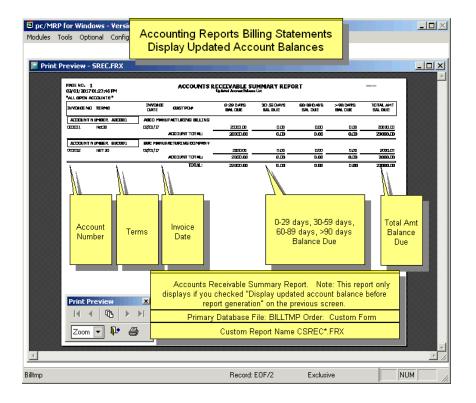
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	Chart of Accounts	•			
		+			
Generates a Billing Statemer	Enter / Edit <u>B</u> udget F	Figures			NUM //
🚊 pc/MRP for Window	s - Version 9.43D	Accounting R	anorts		– 🗆 ×
Modules Tools Optio	nal <u>C</u> onfiguration				
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Accounts Rec	eivable Billing Stateme	int Screen			53
	-				
		Tor each address on the			
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Invoice Dat	a:			-	
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	pen Invoices Over	1 🌲 Days Old			
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		and Higher			
				Save Settings as	Default
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	analy this have if your	lee wich to		3. Click	COk.
	arý Report, shown or				NUM
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Version 9.43D and higher added the option to email the Billing Statements as PDF Attachments.

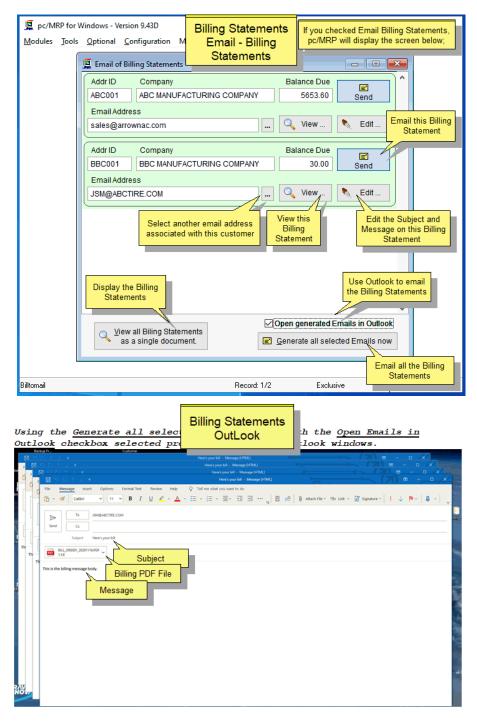
The billing form below is available on versions 9.12B and higher.



You can print a billing statement for all companies, a single company, or a range of companies. You can include all open invoices or all open invoices over a given number of days old. You have the option to also print out an Accounts Receivable Summary Report for all the companies in the range of the above report:



If you checked the Email Billing Statements Checkbox the screen shown below will appear. To set up pc/MRP to allow emailing billing statements, you must go to Configuration, Settings and Utilities, Option 33.



Using the <u>Generate all selected Emails</u> button with the <u>Open Emails in</u> <u>Outlook</u> checkbox de-selected. All emails are deposited into Outlook's Outbox and are not displayed individually.

<u>Note:</u> If an email is generated but it doesn't have an email address, then it will be displayed regardless of the checkbox status because Outlook WILL NOT permit an email to be put into the OUTBOX without one.

# 14.9.5 Print/Display Payment History Report

The Payment History Report provides a history of customer payments and the number of days variance from the payment due date for each invoice.

# 14.9.6 Receive Customer Payment

To record receiving a customer payment, select Modules, Accounting, and Receive Customer Payment.

VFP - C:\V846 (User: DOUG) Modules Tools Optional Config      Receive Customer Paymer      O     Customer ID ABC001 Bank Account 10200000 Amount Received		Cneck# 3. Ent		time th	uted Amount
Pay         Date         Invoice #           V         11/30/2009         000001           V         11/30/2009         000002           V         11/30/2009         000002	2,000.00 Invoice Amount 58.66 58.66 1,956.25	Amount Due 58.66 58.66 1,956.25	Payment 58.66 50.00 1,891.34	Discount Edit Edit Edit	0.00
to let pc/MR	heck. be credi	the payment am ted for each invoi istributed Amoun	ce until		If you leave an Invoice open, pc/MRP will record the partial payment and leave the invoice open for another
Auto Distribute	a summary number, tran	2,073.57 Report t Summary Report report containing saction number a id credited for eac	the invoice Ind amounts	000001 \$10.00 discount, tax. Invo Wheel A:	bove example Invoices and 000002 are for 5 D Bearings with 10% \$10.00 freight, 8.125% ice 3 is for 1 \$2,000.00 ssy with 10% discount, reight and 8.125% tax.
Recordcuspayment		Rec	ord: 3/3	E	

### 14.9.7 Batch Post Invoices

To batch post invoices, select Modules, Accounting, Batch Post Invoices. All open, un-posted invoices will be listed. Select the invoices you wish to post. Click Manual Edit for those invoices you will want to see or edit prior to the actual posting of the invoices. Make your changes (if any) on the displayed transaction(s), and save them. pc/MRP will display a transaction report.

	<b>- C:\¥846 (</b> s Tools O <sub>l</sub>	All open	) (un-posted) invo be displayed.	pices er	Help				_ []	×
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x o	-						Accounts Receivabl	le 11100000		
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A.C.	11/30/2009	000002	50.00	5.00	3.66	10.00	58.66	46.30		
	11/30/2009	<u>000003</u>	2000.00	200.00	146.25	10.00	1956.25	290.00	$\nabla$	
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				12100000	STOCK DEVENTORY	D. 00	70.00
				211000D0	SALES TAX	D. 00	146.25
				301 20000	FREIGHT INCOME	0.00	10.00
				SDL000D0	UAGES	D. 00	20D. 00
				5 DL 500 DO	OVERHEAD EXPENSE	D. 00	20.00
				111000D0	ACCUT/RECVE.CUSTOMERS	1956.25	D. 00
				401 500 00	COST OF GOODS SOLD	290.00	0.00
BELRING 39	ABC MANUFL	D00002		3DL000D0	BUSINESS INCOME	D, 00	45.00
				12100000	STOCK DUVENTORY	D. 00	46.30
				211 000 DO	SALES TAX	D.00	3.66
				301 200 00	FREIGHT INCOME	0.00	10.00
				111000D0	ACCUT/RECVE.CUSTOMERS	5B.66	D. 00
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BEARING 55	ABC MANUFA	000001		30100000	BUSINESS INCOME	D. 00	45.00
				12L000D0	STOCK INVENTORY	D.00	46.30
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# 14.10 Credit Memos

#### 14.10.1 Overview

Users with the necessary rights can enter credit memos from the Sales Order New Screen and from the Accounting Credit Memo Menu shown below.

🗷 VFP - C:\V847 (User:	DOUG)	Credit Memo	
Modules Tools Optional	Configuration Manual Deve	Overview	If a person edited a credit memo, checked restock, changed the qty, answered yes to "Auto adjust qty", pc/MRP did not adjust the qty in the partmaster.
<u>B</u> OMs			Update to pc/MRP Versions 9.10H, 9.12F or higher
Stockroom 🕨			as they will auto adjust the qty in the partmaster (no stockroom transactions required).
Purchase •			
<u>R</u> eceive			
Work Order 🔹 🕨			
<u>S</u> ales Order →			
In <u>v</u> oice			
Shipment •			
Address Book			
Accounting 🕨 🕨	<u>G</u> L Transactions		
Exit	Accounts Payable		20
	Pay Bills / Print / Clear check	s 🕨	
"Create an inde	endent credit memo (not att pendent credit memo and p ent credit memo and attach invoice".	orint a refund check" 🌅	ts
	Income & Expense Grap <u>h</u>		credit memo.
	Credit Memos	▶ <u>N</u> ew	Print a credit
	<u>D</u> ebit Memos	► <u>E</u> dit /	View Memo.
	Chart of <u>A</u> ccounts	► <u>P</u> rint	•
	Tax Code <u>E</u> ntity	• Ottad	h Independent Credit Memos to Open Invoices
	Post Month w/ Print <u>Financia</u>		In Independente Credit Memos to Open Invoices
	Enter / Edit <u>B</u> udget Figures		
Create a New Credit Memo	Audit Transactions		Attach an Independent Credit Memo created in the past to a new open (unpaid) invoice.

pc/MRP allows users to automatically create credit memos, including customers who currently have no open invoices. Credit memos can be directed to print checks and/or restock parts.

#### Select Credit Memos, New to:

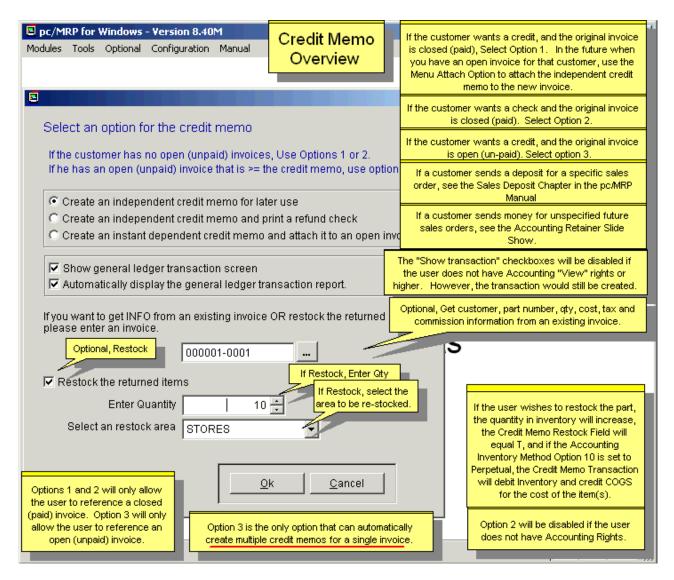
Create an independent credit memo (not attached to any invoice);

Create an independent credit memo and print out a refund check;

Create a dependent credit memo and attach it to an open (unpaid) invoice.

Select Attach Independent Credit Memos to:

Attach an Independent Credit Memo created with option #1 above, to a new open (unpaid) invoice. This will close the original independent credit memo and create a new dependent credit memo attached to the open (unpaid) invoice.



If the customer wants a credit, and the original invoice is closed (paid), select option #1, "Create an independent credit memo for use at a later date". In the future when you have an open invoice for that customer, you can use the Menu Attach Option to attach the independent credit memo to the new invoice.

If the customer wants a check and the original invoice is closed (paid), select option #2, "Create an Independent credit memo and print a check",

If the customer wants a credit, and the original invoice is open (un-paid), select option #3, "Create a dependent credit memo, and attach it to an open invoice",

**Note:** If you are using pc/MRP's Optional QuickBooks Export, and you wish to attach a Credit Memo to an invoice that transferred over to QuickBooks yet has <u>not</u> been paid in QuickBooks, you will need a flag file named "**ALLOWATTCHCLOSEDINVOICE.FLG**" in the pcmrpw directory to attach the Credit Memo.

pc/MRP's Credit Memo Module will automatically:

- Create a credit memo
- Restock the part(s) (if Restock is checked)
- Debit Sales and Credit AR or Checking if printing a check
- Debit COGS and Credit Inventory (If Restock and **Option 10** set to Perpetual)
- Print a check (if selected)
- Display the transaction screen (If Show general ledger transaction screen checked)
- Display/Print the transaction report (if Display general ledger report checked)

Option #2 is disabled if the user does not have Accounting Rights. Options #1 and #2 will only allow the user to reference a closed (paid) invoice. Option #3 will only allow the user to reference an open (unpaid) invoice.

The "Show transaction" checkboxes will be disabled if the user does not have Accounting "View" rights or higher. However, the transaction is still created.

If the user wishes to restock the part, the quantity in inventory will increase, the Credit Memo Restock field will equal 'T', and if the Accounting Inventory Method, **Option 10**, is set to Perpetual, the Credit Memo transaction will debit Inventory and credit COGS for the cost of the item(s).

You can choose to restock none, some, or all of the items. If the user chooses to restock an item, the user must select the re-stock stores area.

If "Restock the returned items" is not checked, the credit memo will not be included in pc/MRP's Inventory Movement Report.

If the user wishes to restock multiple part numbers from a single invoice, he must create multiple credit memos for that invoice.

Note: If the item is re-stocked is a serialized item:

- 1. You must delete the serial number record(s) in the detail file of the Serial/Lot Number module for the returned line item serial number(s) and
- 2. Adjust the master file record qty, of the Serial/Lot Number module, up for the re-stock quantity of that serial/lot number. For serial numbers, you would just adjust the qty from 0 to 1 for each serial number; for lot numbers, you would adjust the qty up by the qty returned.

Users can find all transactions for a specified invoice and it will include all relevant dependent (attached) credit memos. The Independent Credit Memo's created by option #1 will eventually be washed out by "R" transactions and replaced by a new Dependent Credit Memo's attached to specified invoices. This prevents the user from having to re-close a past accounting period as the original credit memo transaction can be left alone and does not have to be adjusted.

### 14.10.2 Entering a Credit Memo

### Entering a Credit Memo from the Credit Memo Menu

To enter credit memos from the Credit Memo Menu, select Modules, Accounting, Credit Memos and New.

The user must have "Create" accounting rights or higher to access the New and Attach Options on this menu.

### **Entering a Credit Memo from the Sales Screen**

To enter credit memos from the Sales Screen, select Modules, Sales, New, and Sales Return as shown on the screen below.

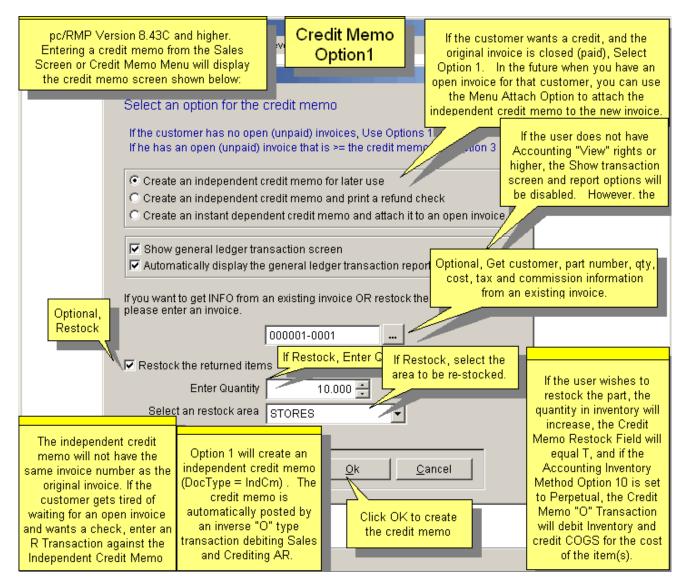
VFP - C:\V832 (User: DOUG) Modules Tools Optional Configuration Manual Deve	eloper Help	
Sale Type Sales, N	Credit memo for a er from the Sale select Modules, lew and click on ales Return C 3 R&D C 4 DEMO C 5 INCOMP C 6 ENGINEER	
Terms         Ship Via         FOB         Save Settings as Default	Tax Type       Taxable       Resale       Food Product       Service       U.S. Government       Out of State       Exempt	The Sales Return Radio Button will only be enabled, if the user has create rights or higher in sales and Option 95 is set to allow credit memos to be created from the sales module.
		NUM //

The user must have "Create" rights or higher in the sales module and Configuration, Settings and Utilities, **Option 95** is set to "Allow credit memo to be created from the sales module".

Option 95 gives users control over whether or not people in the sales order module can enter a credit memo. If a user has rights to use the sales order module but no rights to the accounting module and Option 95 is set to allow, the user will be allowed to enter a credit memo, but not print a check. Option 95 will initially default to "Not Allow".

# 14.10.3 Option #1: Create an Independent Credit Memo for Later Use

Entering a credit memo from the Sales Screen or Credit Memo Menu will display the credit memo screen shown below:



If the customer wants a credit, and the original invoice is closed (paid), select option #1, "Create an independent credit memo for use at a later date". In the future when you have an open invoice for that customer, you can use the Menu Attach Option to attach the independent credit memo to the new invoice.

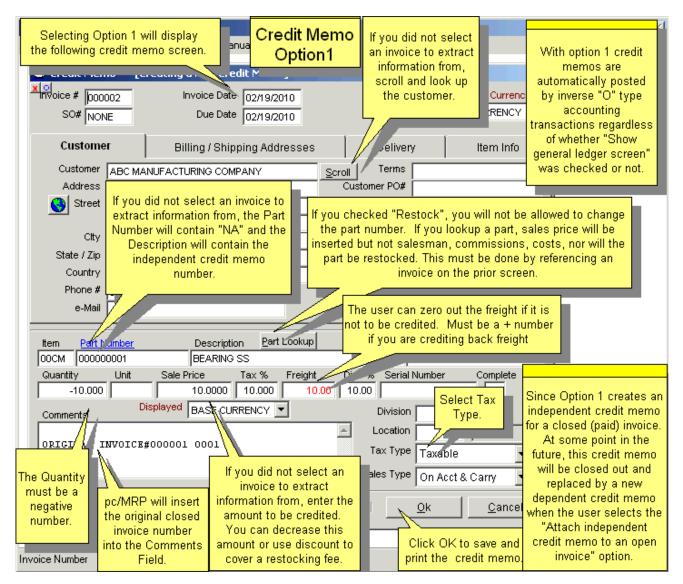
Option #1 will only allow the user to reference a closed (paid) invoice.

Option #1 will create an independent credit memo (DocType = IndCm). The credit memo is automatically posted with an inverse "O" type transaction debiting Sales and Crediting AR.

If the user wishes to restock the part, the quantity in inventory will increase, the Credit Memo Restock Field will equal T, and if the Accounting Inventory Method **Option 10** is set to Perpetual, the Credit Memo "O" Transaction will debit Inventory and credit COGS for the cost of the item(s).

# **Option #1, Credit memo screen**

If you selected option #1, "Create an independent credit memo for later use", you would get the following credit memo screen:



If an invoice line item was selected, the part number and description will be displayed on the credit memo. If no invoice was selected, the Description will contain "INDEP CM# <CreditMemoNo> 00CM"

If the credit memo data came from an invoice and the freight was greater than \$0.00, the freight amount will be displayed in red. The user can credit back the freight or zero it out.

If you want to charge a re-stocking fee, you can enter it as a Discount.

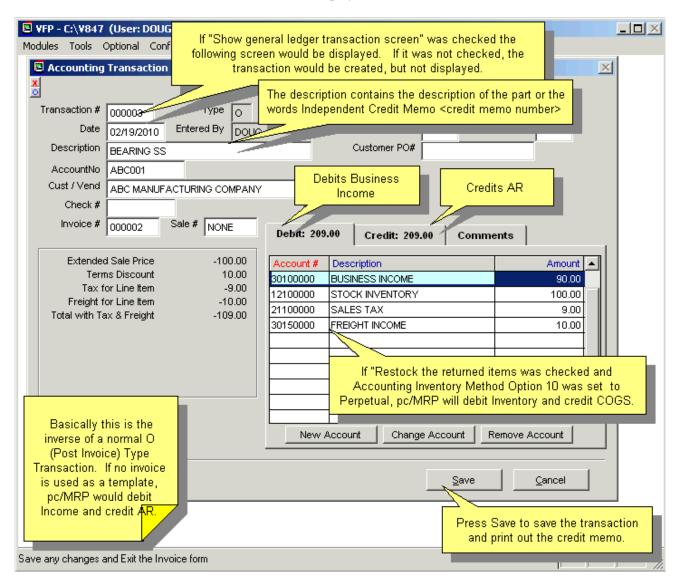
With credit memos pc/MRP will check for the following conditions, Quantity < 0, Sale Price > 0, Freight, Tax %, Discount >= 0, the address is not empty and the Part Number contains an "NA" or a valid part number.

With option #1 credit memos are automatically be posted by inverse "O" type accounting transactions regardless of whether "Show general ledger screen" was checked or not.

Since option #1 creates an independent credit memo for a closed (paid) invoice, at some point in the future, this credit memo will be closed out and replaced by a new dependent credit memo when the user selects the "Attach independent credit memo to an open invoice" option.

### **Option #1, Credit memo transaction screen**

If "Show general ledger transaction screen" was checked the following screen would be displayed. If it was not checked, the transaction would be created, but not displayed.



Basically this is the inverse of a normal O (Post Accounts Receivable Invoice) Type Transaction. If no invoice is used as a template, pc/MRP would debit Income and credit AR for the amount of the credit memo.

If "Restock the returned items" was checked and Accounting Inventory Method **Option 10** was set to Perpetual, pc/MRP will debit Inventory and credit COGS.

The description contains the description of the part or the words Independent Credit Memo <credit memo number>

# **Option #1, Print/Display Independent Credit Memo**

When a user creates a credit memo, pc/MRP offers to print/display and or email the credit memo as shown in the screen below:

VFP - C:\V847 (User: DOUG)         Modules Tools Optional Configuration Manual Develop         Print Preview - INVOICEB.FRX         Print Preview         I		pc/MF email	a user creates a RP offers to print/ I the credit memo the screen b	display and or
ENTTERY TECHNOLOGY CONESTVE TECHNOLOGY 123 ENTE STREET RICHLARD, CR 92020-4406 ENDEE: 400-226-7321 FIX: 408-247-8610	Page B Cred di Hell Au Sal Esp Cus for	D. : 1 DRTE : 02/19, D DOC H :		
ABC MARUFACTURING CONPARY RUTH: JOE SMITH 111. SOUTH NAIN STREET RICHVIEW, CR ##88# USA	SHIP MIN TO 111	MAMUERCTURING COM : Jue Smith South Main Street View, Ca 88448		
SHIP VIA: TORHS:		ACCT: ABC		
ITEL PARTNO QTYORD	QTYSHIP HED		TOT / TR	ICE
00CN 0000D0001 BEARING 55 0 0RIGINAL PREATER 4000001 D001	-10		10.00 -100	.00
A Credit Memo is basically Invoice with a negative quar		siin fotz Dis Cor Freig Freig Tot I	61: 10 RX: -9 H1: -10	. D0 . DU . D0
		70TAL E	OR CREDIT MEND DD	
Tempinv (c:\docume~1\doug\locals~1\temp\59011129.dbf)	Record: EOF/	1 Exclus	sive	

# **Option #1, Independent Credit Memo Transaction Report**

If the "Automatically display general ledger transaction report" checkbox was checked, the general ledger transaction report will be displayed and or printed as shown below:

The next two illustrations show what goes on behind the scenes.

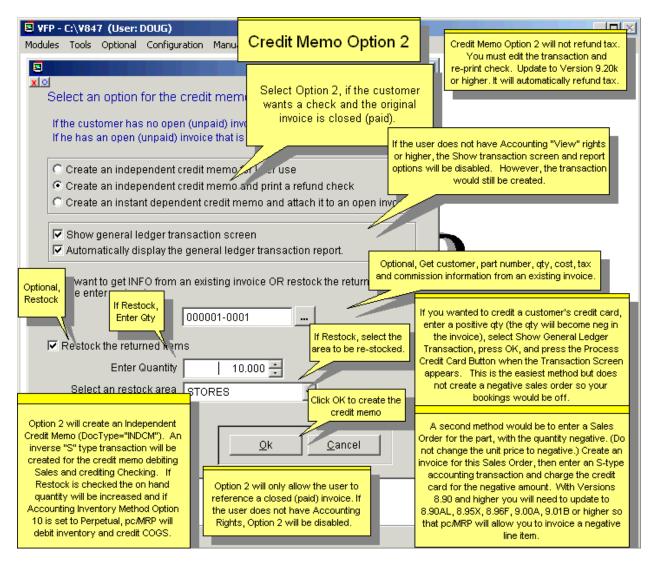
# **Option #1, Behind the scenes**

Behind the scenes, pc/MRP created a new posted independent (has its' own invoice number) credit memo.

VFP - C:\V83			the scenes, pc/		0. now					_ 🗆
odules Tools	Optional Co	poste	d independent (h	nas its' own in	voice					
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×	Int	lexed Se	arch (Fastest)				Queried	Search		
Sav	e Settings	Sor	t Or <u>d</u> er		Inclu	de			1	
			cum				and Closed	•		
	lor Code		in S Memo retu	irning 10	atch					
	Original C	losed 📄	items. Res	аск = т, 📗						
G	Invoic	e								
Invoic	9	Item #P	art IVr	Acct#	Post		Description		<b>_</b>	
▶ 0000				ABC001 ABC001	Y	Y	BEARING: BEARING			
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								was	checked.	
of applicable re									NUM	

# 14.10.4 Option #2: Create an Independent Credit Memo and Print a Check

Select option #2, if the customer received an order, wants a check and the invoice is closed (paid).



Option #2 will only allow the user to reference a closed (paid) invoice.

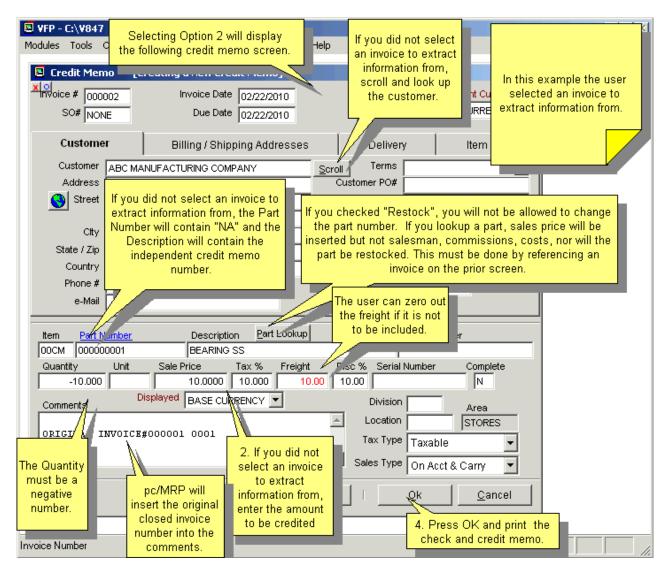
If the user does not have Accounting Rights, option #2 will be disabled.

An inverse "S" type transaction will be created for the credit memo debiting Sales and crediting Checking. If Restock is checked the on hand quantity will be increased and if Accounting Inventory Method **Option 10** is set to Perpetual, pc/MRP will debit inventory and credit COGS.

If the customer paid by credit a credit card and would like a credit back on their credit card, see section 11.21.5.

# **Option #2, Credit memo screen**

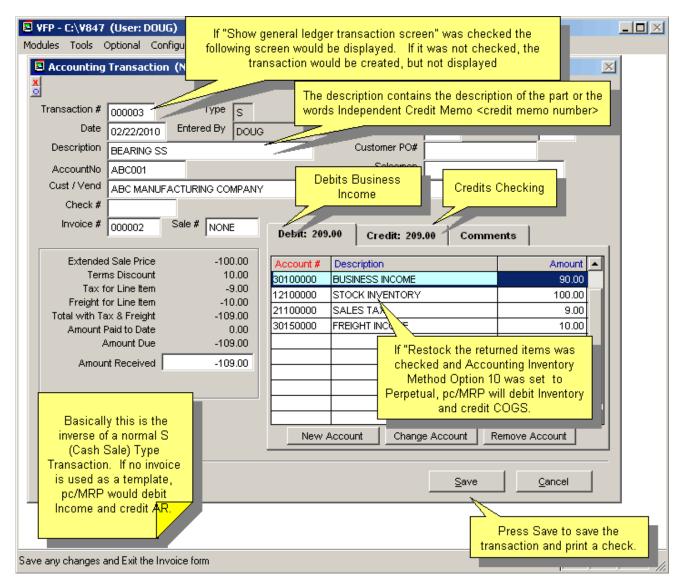
If you selected option #2, "Create an independent credit memo and print a check", you would get the following credit memo screen:



With option #2 an "S" Type Transaction debiting Sales and Crediting Checking is automatically created for the credit memo. The credit memo is then completed with a Y in the credit memo's Complete Fields. pc/MRP will then offer to print a check.

### **Option #2, Credit memo transaction screen**

If "Show general ledger transaction screen" was checked the following screen would be displayed. If it was not checked, the transaction would be created, but not displayed.



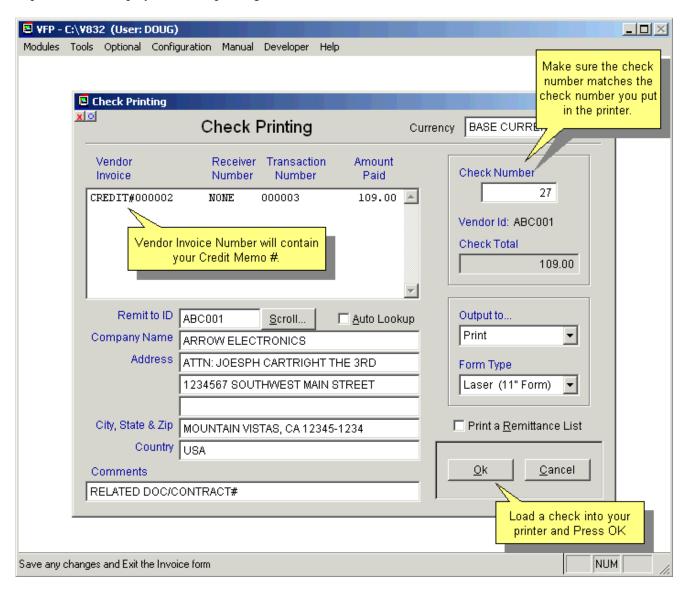
Basically this is the inverse of a normal S (Cash Sale) Type Transaction. If no invoice is used as a template, pc/MRP would debit Income and credit AR.

If "Restock the returned items" was checked and Accounting Inventory Method **Option 10** was set to Perpetual, pc/MRP will debit Inventory and credit COGS.

The description contains the description of the part or the words Independent Credit Memo <credit memo number>

### **Option #2, Independent Credit Memo Print Check Screen**

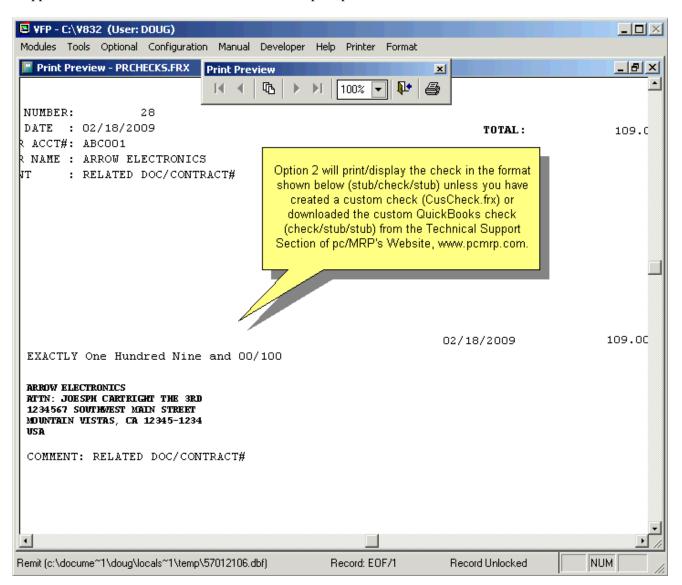
Option #2 will display the check printing screen shown below:



Put a check in the printer. Make sure the check number in the Check Number Text Box matches the check number on the physical check.

### **Option #2, Independent Credit Memo Print Check**

Option #2 will print/display the check in the format shown below (stub/check/stub) unless you have created a custom check (CusCheck.frx) or downloaded the custom QuickBooks check (check/stub/stub) from the Technical Support Section of Software Arts' Website, www.pcmrp.com.



# **Option #2, Print Independent Credit Memo**

Option #2 will offer to print, display or email the credit memo as shown below:

	ools Optional Config						
	eview - INVOICEB.FF	(X				_	
	Print Preview	▶ 75% ▼	¥ 🗳	CREDIT ME	мо 000002		
C <b>G</b> 123	D TBCH Hesive Technologies 3 Grif Street Chirrd, Cr 92020-4406	pc/MF	a user creat RP offers to p I the credit m	rint/display ar emo as show	nd or		
EHK Fre	OBE: 400-226-7321 X: 408-247-8610		the scree	en below			
AT1 111	C NARUFACTURING CONPA TH: JOE SMITH 1 SUUTH NAIN STREET CHATLEY, CA \$\$885 A	BEY	SHIP TO 2003R	18C MAHUPACT ATTN: JUE SH 111 SOUTH HA RICHVIEW, CA USA	IN STREET		
SHEP	VIA:	TERMS :	_	a	CCT: 38C001		
гтен	PARTNO	QIYORD	QIYSHIP	HRDRD UND	IT PRICE	TOTAL PRICE	
OOCN	00000001	BEARING SS 0	-10		1D.00	-100.00	
	0000D0001 ARIGINAL INVOLCE#0000	0	-10		1D. 00	-100.00	
	ORIGINAL INVOICE#0000	0	-10		1D.00 SLE TOTAL: . DISCOUNT: TRX: EREIGNT:	-100.00 -100.00 10.00 -9.00 -10.00	
, <u> </u>	ORIGINAL INVOICE#0000	0	-10		SHE TOTAL : . DISCOUNT : TAX :	-180.08 10.00 -9.00	-1
	ORIGINAL INVOICE#0000	0	-10		SLE FOTAL : . DIS COURT : TRX : FREIGHT : TOTAL : MT USED :	-100.00 10.00 -9.00 -10.00 -109.00 -109.00	-

# **Option #2, Print/Display Independent Credit Memo Transaction**

With option #2, if you checked "Show General Ledger Transaction Screen" pc/MRP would Print/Display the following S Type Credit Memo Transaction Report.

1.10	¥832 (User: I									_ [	
	eview - PRTR	Configuration AN2.FRX Print Preview		Developer		Printer		General Le pc/MRP following	n 2, if you chec dger Transactic would Print/Dis g S Type Credit ansaction Repo	on Screen" play the Memo	×
CHECK	DESCRIPTION	COMPANY	INV/REC	REL/VER		ACCT			DEBIT ANT	CREDIT ANT	
30	BEARING SS	ABC NADUFA	000002			3010D000 1210D000 2110D000 3015D000 1020D000 4015D000	STOCK SLLES FREIGH BANK G	SS IDCONE INVEDTORY TAX J INCOME HECKING ACCOUNT F GDODS SOLD	90.00 100.00 9.00 10.00	 109.00 100.00	
•				remaini included what go	ing sc I to de		e ite				•
rancursor					B	ecord: EOI	F/1	Exclusive		NUM	

The next two illustrations show what goes on behind the scenes.

# **Option #2, Behind the scenes**

Behind the scenes, pc/MRP created a new independent (has its own invoice number) credit memo. In addition, pc/MRP automatically posted the new credit memo.

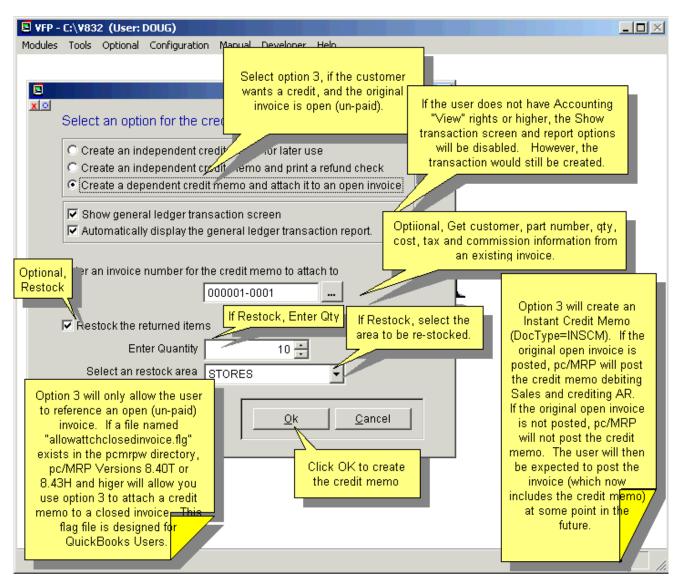
VFP - C:\V847 (User: DOUG)		
File Edit View Tools Program Toolbox Table Wir	ndow Help	
🔤 doug2.prg		
USE IN SELECT("Transact")		
USE transact		
LOCATE FOR tranno = "000003"		
BROWSE FIELDS tranno, amountpd,	checkno, ckprnted no	owait
USE IN SELECT("Trandetail")		
USE trandetail IN 0		
SELECT trandetail LOCATE FOR tranno = "000003"		
BROWSE NOWAIT		
USE IN SELECT("Invoice")		-
USE Invoice IN 0		
SELECT invoice		
BROWSE FIELDS Invoiceno, sono, ite	mno,partno,qtyship,a	accountno, posted, complete, check
Transact	<li></li>	
Tranno Amountpd Checkno Ckprnted	<b>_</b>	
▶ 000003 0.0000 37 Y	<b>-</b>	Behind the scenes, pc/MRP created a
		new Posted and Complete independent
Trandetail	_ 🗆 ×	credit memo (with its own invoice number
Tranno Dc Acctno Descript	Amt Acctype	returning 10 items. Comments=Original Invoice #99999-9999
▶ 000003 D 30100000 BUSINESS INCOME	90.0000 RN	Amount Paid(AmountPd=-Check Amount
000003 D 12100000 STOCK INVENTORY	100.0000 AC	Distributed Amount(cmDistAmt) = 0.00
000003 D 21100000 SALES TAX	9.0000 LC	
000003 D 30150000 FREIGHT INCOME	10.0000 RN	
000003 C 10200000 BANK CHECKING ACCOUNT		Restock DocType
000003 C 40150000 COST OF GOODS SOLD	100.0000 EG	= True = IndCm
Original Closed     Invoice		
	Otyship Accountro Post	ed Complete Checkno Resock Doc vol -
▶ 000001 000103 0001 000000001	Qtyship Accountno Posto 10.0000 ABC001 Y	ed Complete Checkno Persock Doc yp
000002 NONE 00CM 000000001	-10.0000 ABC001 Y	Y 37 T INDCM
Invoice (c:\v847\invoice.dbf)	Record: 1/2	Record Unlocked

VFP - C:\V847 ( Madulas, Tasla, Os		Davalaa ay d	lain Duistan Courset		<u>_   ×</u>
Print Preview -	tional Configuration Manual				_ 8 ×
	PRTRAM.FRX Print Preview	1			PAGE ND:1
				ies, pc/MRP creati ig transactions	ed
OMPANY INV/I	REC REL/VENDINV TRAN	8000		DEBIT AMT	CREDIT AMT
C MANUFA 00000.	10	11100000	ACCNT/RECVB. CUSTOMERS	109.00	0.00
O tra	nsaction for the	40150000	COST OF GOODS SOLD	100.00	0.00
origina	I invoice 000001	30100000	BUSINESS INCOME	0.00	90.00
7/		12100000	STOCK INVENTORY	0.00	100.00
	R Transaction for the	21100000	SALES TAX	0.00	9.00
ŕ	original invoice 000001	30150000	FREIGHT INCOME	0.00	10.00
MANUFA 00000		10200000	BANK CHECKING ACCOUNT	109.00	0.00
	Inverse S transaction	11100000	ACCNT/RECVB. CUSTOMERS	0.00	109.00
C MANUFA 00000	for the independent credit memo 000002.	30100000	BUSINESS INCOME	90.00	0.00
		12100000	STOCK INVENTORY	100.00	0.00
		21100000	SALES TAX	9.00	0.00
1		30150000	FREIGHT INCOME	10.00	0.00
	Inventory and COGS will	0200000	BANK CHECKING ACCOUNT	0.00	109.00
	only be included in the	0150000	COST OF GOODS SOLD	0.00	100.00
	transaction if the Accounting Inventory Method Option 10 is set to Perpetual and Restock		TOTALS:	527.00	527.00
• cales the text in the p	was checked.	/			

pc/MRP V9.50

### 14.10.5 Option #3: Create a Dependent Credit Memo and Attach It to an Open Invoice

Selected option #3, "Create a credit memo and attach it to an existing open invoice" if the customer wants a credit, and the original invoice is open (un-paid).



Option #3 will only allow the user to reference an open (un-paid) invoice.

You can create several credit memos referencing the same invoice (only when using option #3). The line items will be 00CM, 01CM, 02CM, etc.

**Note:** If you are using pc/MRP's Optional QuickBooks Export, and you wish to attach a Credit Memo to an invoice that transferred over to QuickBooks yet has <u>not</u> been paid in QuickBooks, you will need a flag file named "**ALLOWATTCHCLOSEDINVOICE.FLG**" in the pcmrpw directory to attach the Credit Memo.

If the original open invoice is posted, pc/MRP will post the credit memo debiting Sales and crediting AR. If the original open invoice is not posted, pc/MRP will not post the credit memo. The user will then be expected to post the invoice (which now includes the credit memo) at some point in the future.

If the user does not have Accounting View Rights or higher, the "Show general ledger transaction report" and "Display general ledger transaction report" checkboxes will be disabled.

# **Option #3, Credit memo screen**

VFP - C:\V847 Modules Tools (	(User: DOUG) Optional Configuration	Selecting Option 3 the following credit m			
Credit Mer		Creaic memoj           Date         02/22/2010           Date         02/22/2010		Document Currency BASE CURRENCY	
Custom Customer	er Billing /	Shipping Addresses	Delivery	Item Info	
Address Street		an invoice to rom, the Part	Customer PO#	, you will not be allow lookup a part, sales p	
City State / Zip Country	Description will c	ontain the 🔤 insert	ed but not salesma t be restocked. This	n, commissions, costs must be done by refe in the prior screen.	, nor will the
Phone # e-Mail			The user can zero o the freight if it is n		
		cription <u>P</u> art Lookup RING SS Tax % Freight	to be included. .sc % Serial Numb	er er Complete	
-10.000 Commentat	· · · · · · · · · · · · · · · · · · ·	000 10.000 10.00 CURPENCY -	Division	Select Tax Type.	
ORICI A Enter the correct quantity as a negative number.	INVOICE#000001 000 pc/MRP will insert the original invoice number into the comments.	must be a positive number.	Location Tax Type Tax Tax Type Tax Sales Type On	abl and print the origin Acc credit. (Uncheck	the credit memo nal invoice with the Credit Memo Only)

pc/MRP will not allow the following for a credit memo:

- A credit memo that is greater than the invoice
- A positive Quantity
- A negative Sale Price
- An Invalid Part Number other than NA

If "Restock the returned items" is NOT checked the part will NOT be restocked.

If "Restock the returned items" is checked the part number will be restocked.

The credit memo created will be a Dependent Credit Memo (same number as invoice).

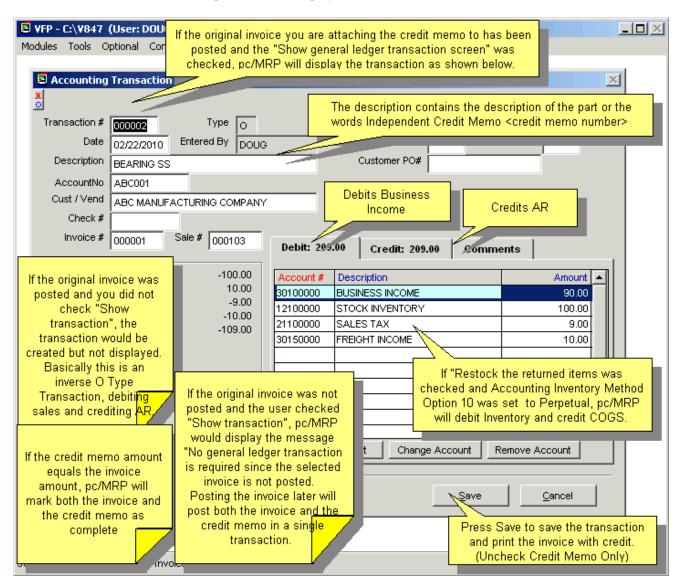
If the invoice was posted the credit memo will be posted.

If the invoice was posted and the credit = invoice, both will be posted and complete.

If the invoice was not posted the credit memo will not be posted.

### **Option #3, Credit memo Transaction**

If the original invoice you are attaching the credit memo to has been posted and the "Show general ledger transaction screen" was checked, pc/MRP will display the transaction as shown below.



The Quantity will default to -1. Enter the correct quantity as a negative number. If you accidentally forget to increase the negative qty, it would be better to enter a second credit memo than to edit the original credit memo.

If the original invoice was posted and you did not check "Show transaction", the transaction would be created but not displayed. Basically this is the inverse O Type Transaction debiting sales and crediting AR.

**Note:** If you are entering a series of credit memos against the same invoice, we recommend creating a dependent credit memo for each line item. However, if you only wish one accounting transaction, do the following:

- Show General Ledger Transaction Screen must be checked.
- When the transaction screen is presented to you, press CANCEL except for the final credit memo.
- You will notice that the total of all un-posted line items, including the credit memos are totaled to post on the final accounting transaction. Press SAVE on this last transaction.

If the original invoice was not posted and the user checked "Show transaction", pc/MRP would display the message "No general ledger transaction is required since the selected invoice is not posted. Posting the invoice later will post both the invoice and the credit memo in a single transaction.

If the credit memo amount equals the invoice amount, pc/MRP will mark both the invoice and the credit memo as complete.

The description contains the description of the part or the words Independent Credit Memo <credit memo number>

If "Restock the returned items" was checked and Accounting Inventory Method **Option 10** was set to Perpetual, pc/MRP will debit Inventory and credit COGS.

### **Option #3, Print Invoice with attached credit memo**

Print the invoice with the attached credit memo (uncheck "Print Credit Memos Only"). Send the invoice with the newly attached credit memo to the customer.

VFP		<b>/832 (User: DOUG)</b> ols Optional Configu	ration Manual	Developer Help	Printer For	mat		<u>_0×</u>
	_	nt Preview						<u>_ 8 ×</u>
	CO10 123 RIC	TBCH Estve technologies Baie Street Land, ch 92020–4406	cre N	rint the invoice adit memo (uno Aemos Only"). with the newly memo to th	heck "Print: Send the inv	Credit oice		
	ABC ATTI 111	E: 400-226-7321 : 408-247-8610 MARUPACTURING CONPAI I: JOE SECTH SOUTH NALE STREET MILEY, CA \$\$888	RL	SHIP TO ZODR	ATTN: JUE S 111 SOUTH D	GIN STREET		
s	CHILD V	IA: UPS	TERMS	: Ket98		ACCT: XBC001		
1	CILE PC	PARTNO	QTYORD	<b>OLASKUD</b>	HEDED U	III PRICE	toyal Price	
(	0001	00000001	BEARING SS 1	10	0	1D.00	10D.00	
í.	00C N	00000001	BEARING 55 O	-10		10.00	-100.00	
6	NUTES:	RIGINAL INVOICE#00D00	1 0001			SUE TOTAL :	G.D.	
		invoice boiler plat	5			TAX:	Q.D0	
						<b>TO7 AL :</b>	Ø . Dø	
	r fo:\de	ocume~1\doug\locals^	1\temp\58951232	.dbf) R	ecord: EOF/2	Exclusive		

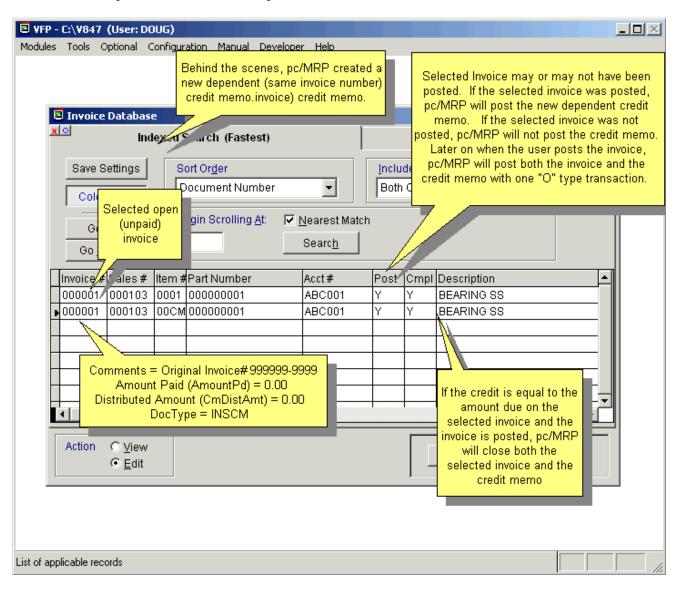
# **Option #3, Print/Display Independent Credit Memo Transaction**

If you checked "Display General Ledger Transaction Screen" pc/MRP would Print/Display the following Credit Memo Transaction Report.

1.16	V832 (User: I								×
	eview - PRTR	Configuration AN2.FRX Print Preview				If you checked "Disp Ledger Transaction So would Print/Display Credit Memo Transa	reen" pc/MRP the following	 D:1	×
02:42 PM						7			
Transacti	m								
CHECK	DESCRIPTION	COMPANY	INV/REC	REL/VENDINV	ACCT		DEBIT ANT	REDIT ANT	
	BEARIDG SS	ABC NAMUFA	0000DT		3010D000 1210D000 2110D000	BUSINESS INCOME STOCK INVENTORY SALES TAX	90.00 100.00 9.00		
					30150000 11100000 40150000	TREIGHT INCOME ACCNT/RECVE.CUSTOMERS COST OF GDODS SOLD	10.00	109.00 100.00	
٩.				You are do remaining s included to o what goes or scen	creens are emonstrat ) behind th	e 🛛			ŕ
_									4

### **Option #3, Behind the scenes credit memos**

Behind the scenes, pc/MRP created a new dependent (same invoice number) credit memo.



The selected invoice may or may not have been posted. If the selected invoice was posted, pc/MRP will post the new dependent credit memo. If the selected invoice was not posted, pc/MRP will not post the credit memo. Later on when the user posts the invoice, pc/MRP will post both the invoice and the credit memo with one "O" type transaction.

If the credit is equal to the amount due on the selected invoice, pc/MRP will close both the selected invoice and the credit memo.

#### **Option #3, Behind the scenes transactions**

Behind the scenes, pc/MRP created the following transactions.

VFP - C:\V847 ( Modules Tools Op	tional Configuration	Manual Print Pre		Help Printer Format	created th transa	enes, pc/MRP e following ctions.
MPANY INV/RI	C REL/VENDINV	TRAN TYPE	АССТ		DEBIT AMT	CREDIT AMT
MANUFA 000001		0	11100000	ACCNT/RECVB. CUSTOMERS	109.00	0.00
	//		40150000	COST OF GOODS SOLD	100.00	0.00
			30100000	BUSINESS INCOME	0.00	90.00
			12100000	STOCK INVENTORY	0.00	100.00
	The first O transa	ation (	21100000	SALES TAX	0.00	9.00
	posted the invo		30150000	FREIGHT INCOME	0.00	10.00
MANUFA 000001	debiting AR a	nd	30100000	BUSINESS INCOME	90.00	0.00
λ.	crediting sales. accounting is se		12100000	STOCK INVENTORY	100.00	0.00
	perpetual pc/MRI		21100000	SALES TAX	9.00	0.00
	also debit COGs	and	30150000	FREIGHT INCOME	10.00	0.00
	Credit invento	ry	11100000	ACCNT/RECVB. CUSTOMERS	0.00	109.00
The second	O transaction		40150000	COST OF GOODS SOLD	0.00	100.00
posted the debiting sale AR. If acco perpetual and restocked th will also deb	credit memo es and crediting unting is set to the credit memo e item, pc/MRP it Inventory and COGs.	men on will both men	no equals t the invoice automatic	ally close and credit ng a "Y" in	418.00	418.00
rtrntmp		- ···	en compion		clusive	

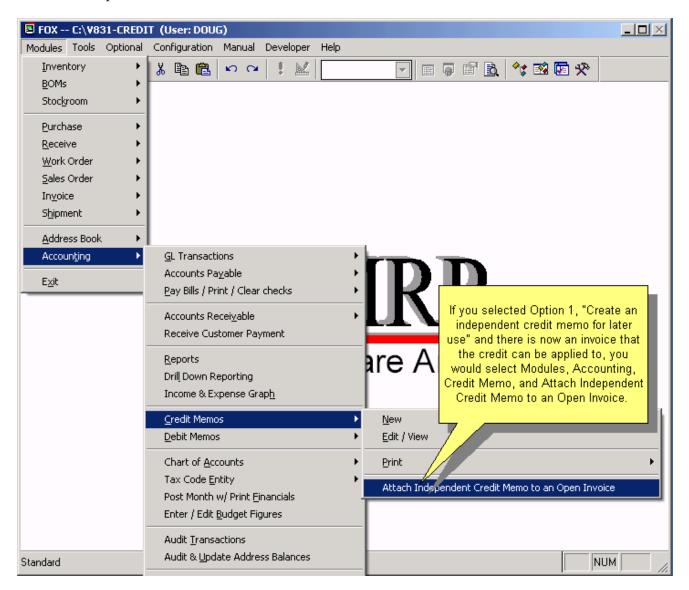
The first O transaction posted the invoice debiting AR and crediting sales. If accounting is set to perpetual pc/MRP will also debit COGs and Credit inventory.

The second O transaction posted the credit memo debiting sales and crediting AR. If accounting is set to perpetual and the credit memo restocked the item, pc/MRP will also debit Inventory and credit COGs.

If the amount on the credit memo equals the amount on the invoice, pc/MRP will automatically close both the invoice and credit memo by putting a "Y" in their complete fields.

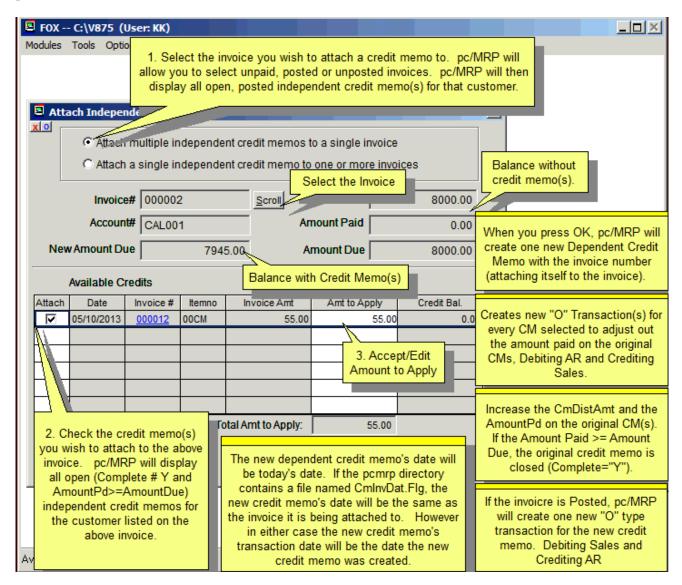
### 14.10.6 Attach Independent Credit Memo to an Open Invoice

If you selected option #1, "Create an independent credit memo for later use" and there is now an invoice that the credit can be applied to, you would select Modules, Accounting, Credit Memo, and Attach Independent Credit Memo to an Open Invoice as shown in the screen below.



#### Attach independent credit memo screen

The Attach Independent Credit Memo to an Open Invoice shown below will allow you to select and open, posted or un-posted invoice. It will then display all open, posted independent credit memo for that customer that are equal to or less than the invoices amount due.



#### Pressing OK will

pc/MRP will display a dialog box stating credit memo attached

Create a new "R" type transaction to wash out the original independent credit memo

Debits AR Credits Sales

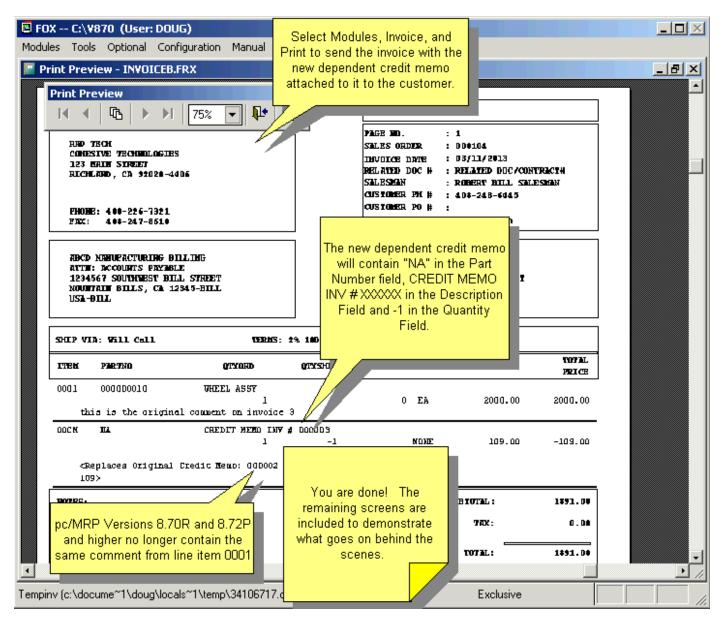
If the amount = the amount due it closes the original independent credit memo Create a new dependent credit memo to replace the original independent credit memo If the invoice was posted

Creates a new "O" type transaction for the new dependent credit memo Debits Sales Credits AR

Puts a "Y" in the new dependent credit memo's Posted Field

#### Attach Independent Credit Memo, Print the invoice with new credit memo

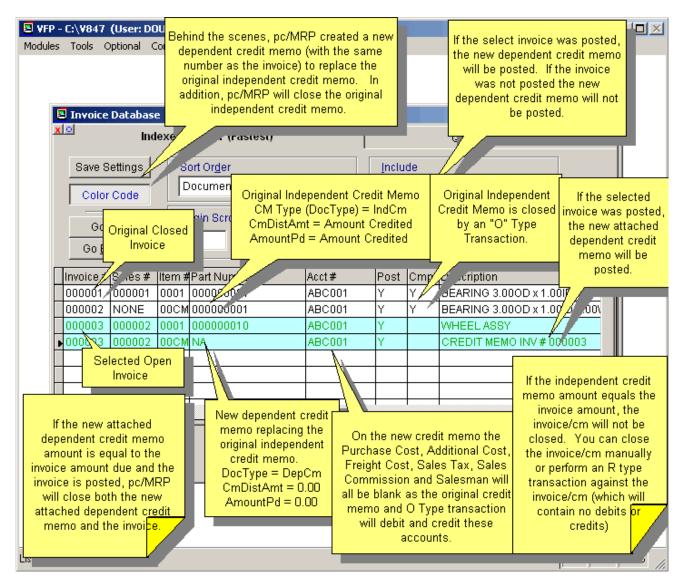
Select Modules, Invoice, and Print to send the invoice with the new dependent credit memo attached to it to the customer.



The next two pages show what goes on behind the scenes.

#### Attach Independent Credit Memo, Behind the scenes

Behind the scenes, pc/MRP created a new dependent credit memo (with the same number as the invoice) to replace the original independent credit memo. In addition, pc/MRP will close the original independent credit memo.

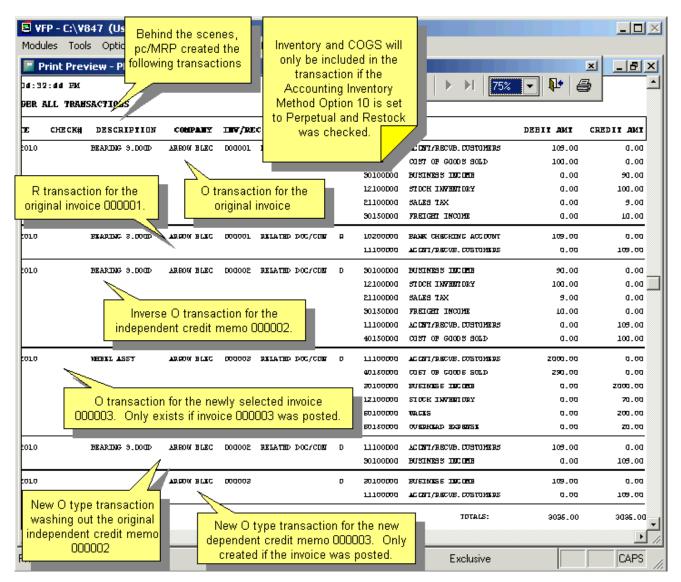


Original Independent Credit Memo 000002 comment: ORIGINAL INVOICE#000001 0001 <Replace by new credited memo: 000003 00CM Amount: \$60>

New Dependent Credit Memo 000003 comment: <Replaces Original Credit Memo: 000002 00CM Amount: \$60>

If the new attached dependent credit memo amount is equal to the invoice amount due, pc/MRP will close both the new attached dependent credit memo and the invoice.

Behind the scenes, pc/MRP created the following transactions:



Independent Credit Memos created by option #1 have their own invoice number and will eventually wash themselves out with inverse "O" and "R" transactions.

We can still find all transactions for a specified invoice and it will include all relevant dependent credit memos but not the independent credit memos.

Inventory and COGS will only be included in the transaction if the Accounting Inventory Method **Option 10** is set to Perpetual and Restock was checked.

#### 14.10.7 Edit a Credit Memo

To edit a credit memo, select Modules, Accounting, Credit Memos, and Edit.

In the example shown below we have changed the quantity from -5 to -6.

VFP - C:\V832 Modules Tools C	(User: DOUG) Optional Configuration Manual Developer Help	_ <b>D</b> ×
Credit Mer	mo [Edit Mode]	
X Noice # 000 SO# NOI		
Custome	er Billing / Shipping Addresses Delivery Item Info	
Customer Address	ATTN: JOE SMITH Customer PO#	
City State / Zip		
Country		
Phone # e-Mail	In the example shown below we have	
ttem Part 1		
Quantity -6,000	Unclude Price         Tax %         Freight         Disc %         Serial Number         Complete           10.0000         10.000         10.000         10.000         Y	
Comments	Displayed BASE CURRENCY  Division Area	_
	INVOICE#000001 0001 by new credited memo: 000003 00CM D> Sales Type	
Delete	Logbook Boiler Plate Labels   Ok Cancel	
City		

If you want pc/MRP to adjust the inventory quantity check the "Adjust Inventory Qty" Checkbox and select the inventory area to adjust.

VFP - C:\V832 (User: DO Modules Tools Optional C	D <b>UG)</b> Configuration Manual Developer Help	_0×
Credit Memo [Ed	lit Mode] Invoice Date 02/26/2009 Due Date 02/26/2009	 nent Currency CURRENCY
Address ATT Street 111 City RiCh State / Zip CA Country USA Phone # 980- e-Mail Item Part Numbe 00CM 00000001 Quantity Uni -6.000 Comments ORIGINAL INVOICE#	You have character of the second sec	 ity"
Delete Log Invoice (c:\v832\invoice.dbf)	book Boiler Plate La <u>b</u> els. Re	 credit memo for the remaining items. In this manner the debits and credits would be correct.

pc/MRP adjusts the credit memo's quantity and the inventory quantity. It does not adjust the original sales order quantity nor does it adjust the credit memo's inverse "O" type accounting transaction. This must be done by manually editing the sales order and the transaction. If the original credit memo did not restock enough parts, it would be better to create a second credit memo for the remaining items. In this manner the debits and credits would be correct.

### 14.10.8 Creating a Credit Memo for Multiple Line Items

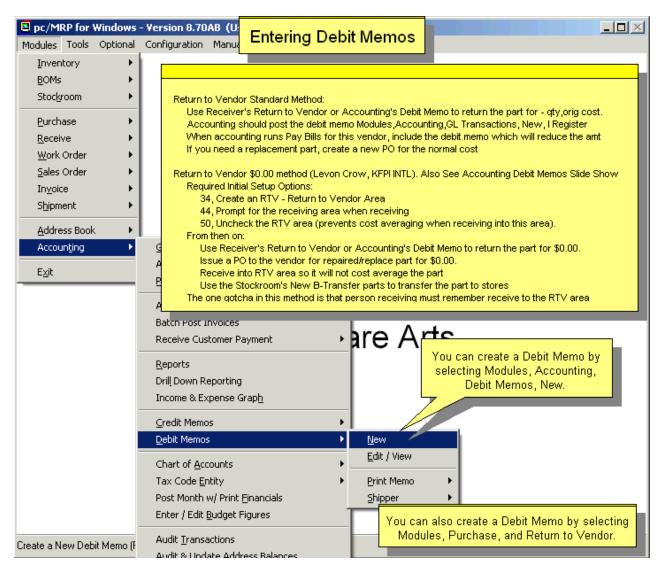
aures	<u>T</u> ools <u>O</u> ption	al <u>C</u> onfig	Multiple	Line Iten	<mark>ns _</mark>		 
Print P	Preview - INVOIO	CEB.FRX					
SHIP V	/IA: Will Call	TER	MS: 2% 10Days Net	ODays ACC	T: ABC001		
ITEM	PARTNO	QTYORD	QTYSHIP	BKORD UNIT	PRICE	TOTAL PRICE	
0001	000000010	WHEEL ASSY	1	0 EA	2000.00	2000.00	
0002	000000011	REAR WHEEL AXU		0 PACK	4000.00	00.0008	
0004	00000010	WHEEL ASSY	-1	EA	2000.00	-2000.00	
	ORIGINAL INVOICE#0						
0104	000000011	REAR WHEEL AXL		PACK	4000.00	-4000.00	
<b>T</b>		for any Minte Date Manage					
and ite that yo	m number on the ou want to restocl	o for multiple line items, first screen. If you wa k. Click on the OK butt e credit memo screen	nt to restock, ente on. pc/MRP will au	r the quantity comatically show	SUBTOTAL: TAX:	4000.00 0.00	
and ite that yo item nu After y the firs	m number on the nu want to restock umber 00CM on th you have save the st screen, enter o	first screen. If you wa k. Click on the OK butt e credit memo screen e credit memo, if you w r select another line ite	nt to restock, ente on. pc/MRP will au if this is the first ci vant to credit anoth m of the invoice th	r the quantity comatically show redit memo. er line item, go to at you want to			
and ite that yo item nu After y the firs credit t on the	m number on the ou want to restock umber 00CM on th you have save the st screen, enter of back. Again if you	first screen. If you wa k. Click on the OK butt e credit memo screen e credit memo, if you w	nt to restock, ente on. pc/MRP will au if this is the first ci vant to credit anoth m of the invoice th r the quantity for r	r the quantity comatically show redit memo. er line item, go to at you want to estock and click	TAX:	0.00	
and ite that yo item nu After y the firs credit t on the memos After y credit n	m number on the but want to restock umber 00CM on the you have save the st screen, enter of back. Again if you OK button. pc/M screen. you save the second memo for other lin	first screen. If you wa k. Click on the OK butt e credit memo screen e credit memo, if you w r select another line ite u want to restock, ente	nt to restock, ente on. pc/MRP will au if this is the first ci vant to credit anoth m of the invoice th r the quantity for r n number to 01CM dit memo, if you st e first screen again	r the quantity comatically show edit memo. er line item, go to at you want to estock and click on the credit Il need to do	TAX:	0.00	
and ite that yo item nu After y the firs credit I on the memos After y credit r anothe	m number on the pu want to restock umber 00CM on the you have save the st screen, enter or back. Again if you OK button. pc/M screen. you save the second memo for other line rr line item that you want to restock, e	first screen. If you wa k. Click on the OK butt e credit memo screen e credit memo, if you w r select another line ite u want to restock, ente IRP will change the iter ond line item of the cre- te item, simply go to the	nt to restock, ente on. pc/MRP will au if this is the first ci vant to credit anoth m of the invoice th r the quantity for r n number to 01CM dit memo, if you st first screen again memo for. estock and click or	r the quantity comatically show redit memo. er line item, go to at you want to estock and click on the credit I need to do t, enter or select the OK button.	TAX:	0.00	
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## 14.11 Debit Memos

#### 14.11 New (Enter A Debit Memo) Overview

Slideshow at: http://www.pcmrp.com/mrp101/debitmemostart.htm

A debit memo is issued to a vendor to cover returned goods, pricing errors, freight charges, etc. It is basically a <u>negative receiver</u> (a receiver with a negative quantity, not negative cost).



Selecting "Accounting, Debit Memos, New" allows you to enter a debit memo. pc/MRP will prompt you to select the area which received the parts. Select the inventory area the parts are being issued from. Next, pc/MRP will ask, "Should this Debit Memo reference a specific Purchase Order?". Select "Yes" if you can tie it to a specific PO. Enter the quantity you are returning as a negative quantity.

By referring the debit memo to a specific PO, the quantity rejected field in that PO is automatically increased. Select "No", if the debit memo is not from a specific PO. If the part has a part number, enter the part number and the quantity returned as a positive quantity; this will be converted to a negative quantity in the debit memo receiver screen. If the part has no part number, leave the part number as "NA" and quantity as a -1 and the dollar amount you wish to be credited as a positive amount. In either case, if **Freight** is returned, enter a negative value.

If you need replacement parts for the ones you just returned, enter a separate PO for those. You can also add it as a new line item on the original PO.

When you pay bills, you select the debit memos along with the normal receivers. pc/MRP will print out the check(s) for the difference.

pc/MRP for Windows - Modules Tools Optional	Version 8.70A Configuration Redeeming Deb	oit Memos
Inventory BOMs Stockroom		Assuming the vendor will have additional purchase orders in the future, when it comes time to pay
Purchase <u>R</u> eceive <u>W</u> ork Order <u>Sales Order</u> Invoice Shipment		the vendor, you are going to include the Debit Memo along with that vendors purchases orders to be paid. The Debit Memo will reduce the amount you are going to be paying him. Both the Receivers and the Debit Memos must be posted to display on the Pay Bills Screen.
Address Book	GL Transactions	JD
	Pay Bills / Print / Clear checks          Accounts Receivable          Batch Post Invoices	Select, Pay Bills, Print Checks Print Unprinted Check(s) Reprint Old Check Glear Checking Transactions Under a Ghecking Transactions
	<u>R</u> eports Drill Down Reporting Income & Expense Grap <u>h</u>	Unclear a Checking Transaction           Remittance Reports
	<u>C</u> redit Memos ► <u>D</u> ebit Memos ►	Alternatively, if the vendor is going to send you a check for the amount of the Debit Memo, make sure the Debit Memo is posted then select
	Chart of <u>A</u> ccounts  Tax Code <u>E</u> ntity Post Month w/ Print <u>E</u> inancials Enter / Edit <u>B</u> udget Figures	Accounting, GL Transaction, E Type Transaction, and select the Debit Memo, pc/MRP will debit AP and credit your checking account for the negative amount of the debit memo. This will also close the Debit Memo by putting a Y in the Debit
Select Receivers and AP vo	Audit Iransactions	Memo's Complete Field.

#### **14.11.1** The written method to process debit memos follows:

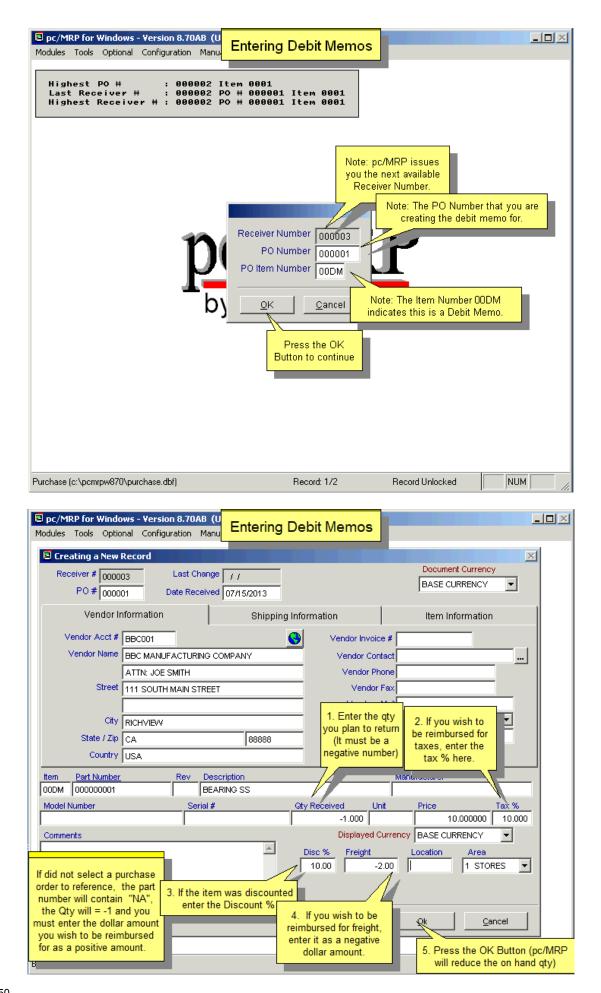
- Enter POs as you normally would
- Enter Receivers as you normally would
- Enter I type transaction for receivers as you normally would
  - Debits Inventory or purchases for the full amount
  - Credits AP for the full amount
- Enter E or Pay Bills (multiple E) type transactions as you normally would
  - o Credits Checking for the full amount
  - Debits AP for the full amount
- When you return parts, enter a Debit Memo (negative quantity receiver) by clicking on Purchase, Return to Vendor or Accounting, Debit Memo, New. Accept the default receiver number pc/MRP assigns to the debit memo (do not attach the debit memo to a receiver). If possible, select a PO line item the part(s) originally came in on (automatically inserts vendor and part number into debit memo and quantity rejected into the PO). Enter the quantity you are returning as a negative number (if you are returning 5, enter -5). Leave the price as a positive amount.
- Enter an I type transaction against the Debit Memo.
  - Debits Inventory or purchases for a negative amount
  - o Credits AP for a negative amount

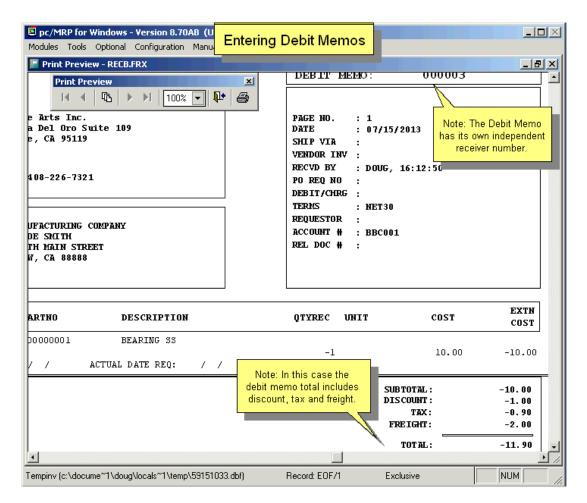
- The next time you use Pay Bills (multiple E) type transactions and there are unpaid receiver(s) for this vendor whose total amount is greater than the debit memo, select the receiver(s) and the debit memo(s).
  - Credits Checking for the full amt of the receiver(s)
  - Debits AP for the full amt of the receiver(s)
  - Credits Checking for the amt of the debit memo(s)
  - Debits AP for the amt of the debit memo(s)
  - o pc/MRP will print a check for the difference.
- If the total amount due for the receivers exceeds the total amount due for the debit memos for a vendor, pc/MRP will automatically close the debit memos and receivers selected for that vendor as follows:
  - It will put a Y in each line item and debit memo's complete field.
  - Each line item's amount paid field will equal the amount due.
  - Each debit memo's amount paid field will equal the amount due (negative values).
- pc/MRP will distribute only part of the debit memo, if the total debit memo amount exceeds the total receiver amount for that vendor and no check will be printed out.

As you can see, the above method works well if there are unpaid receivers that you can take a credit (actually debit) against. If there are no open receivers, create an E-type accounting transaction for the Debit Memo.

#### 14.11.2 The illustrated method to process debit memos follows:

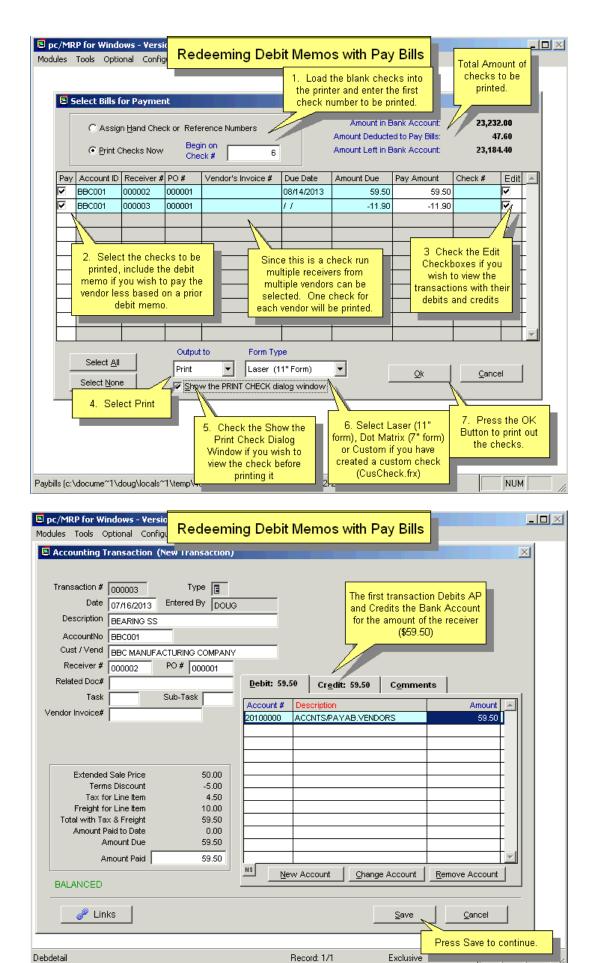
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	PO#	ltem #	Part Number	Acct#	Complete	Description	n 🖌	
	000001 000002	0001	000000001	BBC001 BBC001	Y N	BEARING"	<u>88</u>	
							Press the OK Button	
						<u></u> k	<u>C</u> ancel	
Enter a strin	ng to move to	a point	within the list				NU	м/





To post the debit memo transaction, select Modules, Accounting, GL Transactions and New Transaction. Select "I", Register accounts payable invoice or debit memo.

When it comes to pay your vendors, select Modules, Accounting, and Pay Bills (E type transactions). Receivers and Debit Memos <u>must be posted</u> to be displayed in the Pay Bills Screen.



Modules Tools Optional Confi	Redeemi	ing Debit	Memos with	Pay Bills	
Accounting Transaction (	New (ransaction)				×
Transaction # 000004	Туре 📘			1	
Date 07/16/2013	Entered By DOUG	3		e second transaction Debits AP and Credits the Bank	
Description BEARING SS				count for the amount fo the	
AccountNo BBC001				debit memo (-\$11.90)	
Cust / Vend BBC MANUFA	CTURING COMPANY	(			
Receiver # 000003	PO # 000001				
Related Doc#		<u>D</u> ebit: -1	1.90 Cr <u>e</u> dit: -11.9	90 C <u>o</u> mments	
Task	Sub-Task	Account #	Description	Amount	
Vendor Invoice#		20100000	ACCNTS/PAYAB.VE	NDORS -11.90	
					$+ \parallel + \parallel$
					+
Extended Sale Price	-10.00				
Terms Discount	1.00				$\begin{bmatrix} 1 \\ 1 \end{bmatrix}$
Tax for Line Item	-0.90 -2.00				+
Freight for Line Item Total with Tax & Freight	-11.90				+
Amount Paid to Date	0.00				
Amount Due	-11.90				
Amount Paid	-11.90	NS N			
BALANCED		<u></u>	ew Account Cha	inge Account	
Links				Save Cancel	1
				Press Save to co	ntinue.
Debdetail			Record: 1/1	Exclusiv	·····
	_				
pc/MRP for Windows - Vers	ic				
	Redeemi	ing Dehit	Memos with	Pay Bills	
Modules Tools Optional Confi	Redeemi	ing Debit	Memos with		
Modules Tools Optional Confi	Redeemi	<mark>ing Debit</mark>	If you checked Dialog Windov	l "Show Check Printing w" the following screen	
Modules Tools Optional Confi	Redeemi	ing Debit	If you checked Dialog Windov	I "Show Check Printing	
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Check Printing	Check F	Printing ~ Transaction Number	If you checked Dialog Window will I Cur Amount Paid	TShow Check Printing w" the following screen be displayed Trency BASE CURRENCY C Check Number	
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Check Printing	Check F	Printing ~ Transaction Number 000003	If you checked Dialog Window will I Cur Amount Paid 59.50	T "Show Check Printing w" the following screen be displayed BASE CURRENCY • Check Number 6 Vendor Id: BBC001 Check Total	
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## 14.12 Sales Deposits and Overpayments

## 14.12.1 Recommended way to process Sales Deposits if pc/MRP's accounting module is used (Auto-accounting on or off)

Create the Sales Order as an Order Entry Sales Order:

- 1. Create a sales order line item 0001 for the product, e.g. Bicycle, quantity 10 for \$50,000.00 total.
- 2. Create a sales order line item 0002 for part "NA" for the deposit, say \$10,000.00.
- 3. Create a sales order line item 0003 for part "NA" for a negative deposit (Qty 1, Saleprice -\$10,000.00).
- 4. If you are exporting to QB Create a Sales Deposit, Non Inventory Part Number with a QB Sales Deposit Liability Account inserted into the QB Income Account and a QB Expense Account (as a place holder) in the QB Asset/Expense Field in the part's pc/MRP QB Tab.

Create an invoice for the deposit:

1. Create an invoice for line item 002 for \$10,000.

Post the \$10,000.00 deposit invoice (skip if auto-accounting is on):

- 1. Enter an 'O' type accounting transaction for line item 0002
- 2. Credit Sales Deposit (liability credit account), for \$10,000, instead of Business Income.
- 3. Debit Accounts Receivable account, for \$10,000.00.
- 4. If you are using QuickBooks, ignore 1-3 and export the deposit invoice to QuickBooks.

When you receive the deposit for line item 0002:

- 1. Enter a 'R' type accounting transaction for line item 0002.
- 2. Credit Accounts Receivable, for \$10,000.00.
- 3. Debit Checking account, for \$10,000.00.
- 4. Print out the invoice; it will show the amount paid as \$10,000.00.
- 5. If you are using QuickBooks ignore 1-4 and enter the payment into QuickBooks

Build the product in line item 0001:

- 1. Enter an 'I' type stockroom transactions to issue parts to WIP.
- 2. Enter an 'R' type stockroom transaction to receive the finished product into stores.

Create a second invoice, this time for line items 0001 & 0003:

1. Create an invoice for line items 0001 and 0003 for a total of \$40,000.

Post the \$40,000.00 invoice (skip if auto-accounting is on):

- 1. Enter an 'O' accounting type transaction for line items 0001 & 0003.
- 2. Credit Business Income (Sales), for \$50,000.00.
- 3. Debit Sales Deposit (Liability account), for \$10,000.
- 4. Debit Accounts Receivable, for \$40,000.00.
- 5. If you are using QuickBooks ignore 1-4 and export the invoice to QuickBooks.

When you receive payment for line items 0001 & 0003:

- 1. Enter an 'R' type accounting transaction for line items 0001 & 0003.
- 2. Credit Accounts Receivable, for \$40,000.00.
- 3. Debit Checking account, for \$40,000.00.
- 4. If you are using QuickBooks enter the payment into QuickBooks.

#### 14.12.2 If pc/MRP's accounting module is not used

If the sale is on account and carry:

- 1. Enter the sale as on account and carry
- 2. Note the deposit amount in the comment field
- 3. Edit the invoice, enter the deposit into amount paid field
- 4. Print out the invoice, it will now show the amount paid
- 5. When a payment arrives edit the invoice, add the amount to the amount paid
- 6. If the invoice is paid in full enter a Y into the complete field

If the sale is an order entry for delivery in future:

- 1. Enter the sale as order entry
- 2. Note the deposit amount in the comment field
- 3. Invoice the sales order when item is ready to ship
- 4. Edit the invoice, enter the deposit into amount paid field
- 5. Print out the invoice, it will now show the amount paid
- 6. When a payment arrives edit the invoice, add the amount to the amount paid
- 7. If the invoice is paid in full enter a Y into the complete field

# 14.12.3 Your customer insists on receiving an invoice immediately even though not all of the order can be shipped (usually to send a deposit amount)

- 1. Enter an "On Account and Carry" sales order so an invoice is automatically created. Send the invoice to the customer.
- 2. When you receive the deposit, enter an accounting 'R' (revenue) transaction against the invoice.
- 3. Re-print the invoice which now will show the amount paid.
- 4. Create a work order for each sales order line item that needs to be built.
- 5. Use the stockroom to issue and receive back the work orders. When generating an MRP, only check "Work Orders" and not "Sales Orders".

#### **14.12.4 Handling Overpayments**

When you receive a customer's check and they have overpaid, you will first discover they overpaid when you are entering the payment using pc/MRP's Receive customer payments or pc/MRP's R Type Accounting Transaction. In either case, exit and do not enter the payment.

Edit the original sales order and add a line item: Part Number "NA" Description "Overpayment" Sale Type "Cash and Carry" Qty "1" Sale Price <amount of the overpayment> Click on the Finish Button Select Add to an old invoice Press Continue

Now post the invoice again by entering an O type transaction (it will just post the overpayment amount).

Next, enter the payment for the full amount of the check using pc/MRP's Receive customer payments or pc/MRP's R Type Accounting Transaction.

Now you are free to create a credit memo for the customer selecting Modules, Accounting and Credit Memos. You can select to:

Create an Independent Credit Memo to be applied against a future open (unpaid) invoice.

or

Create an Independent Credit Memo and print a check to the customer.

or Create a dependent credit memo and attach it to an existing (unpaid) invoice.

http://www.pcmrp.com/mrp101/creditmemooverview.htm

## **14.13 Purchase Deposits**

#### 14.13.1 When you make a Deposit on a Purchase and use pc/MRP for Accounting

In the Chart of Accounts Module, create a Purchase Deposit chart of account Type = AC, Asset Current, Debit Account

In the Inventory Module, create a Purchase Deposit Part Number Type = Non Inventory, Asset / Expense Account = Purchase Deposit

From then on, whenever you need to include a deposit on a purchase order:

Purchasing:

- 1. Make a purchase order line item 0001 contains the part number, qty and unit cost.
- 2. Add a second line item for the Purchase Deposit PN, qty 1, and a negative dollar amount for the deposit.
- 3. Add a third line item for the Purchase Deposit PN, qty 1, and positive dollar amount for the deposit.

Accounting:

- 4. Receive the third line item (Modules, Receive, New, select 3rd line item).
- 5. Post the receiver (Modules, Accounting, GL, New, I).
- 6. Print a check (Accounting, GL, New, E) for the receiver containing the third line item.

Receiving:

7. Receive line items 1 and 2.

Accounting:

- 8. Add the vendor invoice number to the receiver.
- 9. Post the receiver (Modules, Accounting, GL, New, I).

10. Print a second check (Accounting, GL, New, E) for the amount of the goods minus the deposit.

(please turn)

#### 14.13.2 When you make a Deposit on a Purchase and you are using QuickBooks for Accounting

In QuickBooks' Chart of Accounts Module, create a Purchase Deposit chart of account Type = Other Current Asset (Could call it Purchase Deposit to distinguish it from Sales Deposit)

In pc/MRP's Inventory Module, create a Purchase Deposit Part Number Type = Non Inventory, QuickBooks Asset/Expense Account = Purchase Deposit

From then on, whenever you need to include a deposit on a purchase order:

- 1. Make a purchase order line item 0001 contains the part number, qty and unit cost.
- 2. Add a second line item for the Purchase Deposit PN, qty 1, and a negative dollar amount for the deposit.
- 3. Add a third line item for the Purchase Deposit PN, qty 1, and positive dollar amount for the deposit.

Accounting:

- 4. Receive the third line item (Modules, Receive, New, select 3rd line item) VendInv XXXXA.
- 5. Export the receiver(s) to QB (Optional, QuickBooks, Export Receivers).

6. Use QuickBooks to print the check for the deposit.

Receiving: 7. Receive line items 1 and 2.

Accounting:

- 8. Add the vendor invoice number to the receiver XXXXB.
- 9. Export the receiver(s) to QB (Optional, QuickBooks, Export Receivers).
- 10. Print a second check (Accounting, GL, New, E) for the amount of the goods minus the deposit.

## 14.14 Print or Clear Checks, Recording Hand Checks and EFPs

#### Overview

This module allows users to print, reprint, clear and unclear checks, hand checks, electronic funds payments and print remittance reports. Slideshow is at: <u>http://www.pcmrp.com/mrp101/paybillsmenu.htm</u>

#### 14.14.1 Pay Bills

#### Step 1, Select Pay Bills, Print Checks from the menu

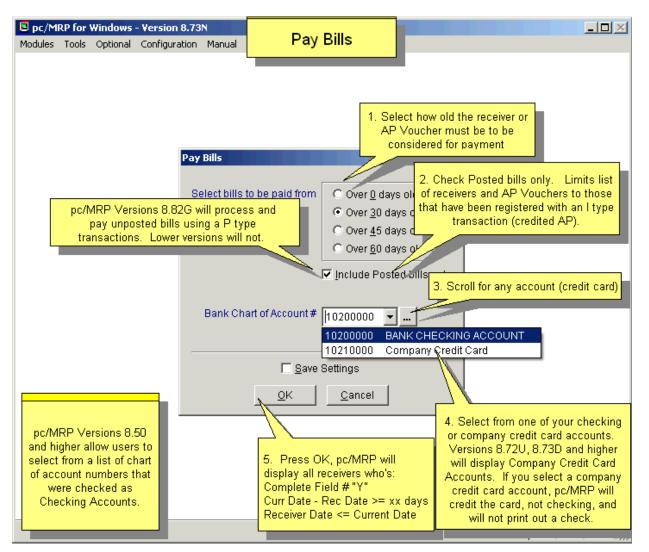
pc/MRP for Windows     Modules Tools Optional		Pay Bills
Inventory BOMs Stockgroom Purchase Receive		
Work Order       Sales Order       Invoice       Shipment		To pay bills with by check, by credit card, register hand check payments or register electronic funds payments, select Modules, Accounting, Pay Bills and Select Pay Bills
Address Book	<u>G</u> L Transactions Accounts Payable <u>P</u> ay Bills / Print / Clear ch	
	Accounts Recei <u>v</u> able Batch Post Invoices Receive Customer Paym	
	<u>R</u> eports Drill Down Reporting Income & Expense Grap!	<u>U</u> nclear a Checking Transaction <u>R</u> emittance Reports
-	⊆redit Memos Debit Memos	Warning - If you wish to lower your payment to a vendor and the receiver has already been posted, create a Debit Memo (Purchasing, Return to Vendor or Accounting, Debit Memo). Pay Bills works well
	Chart of <u>A</u> ccounts Tax Code <u>E</u> ntity Post Month w/ Print <u>E</u> ina Enter / Edit <u>B</u> udget Figur	res amount and a line item ending in DM. Selecting a positive dollar amount receiver and a negative dollar amount. Debit Memo in Pay Bills will
Select Receivers and AP vo	Audit <u>T</u> ransactions Audit & Undate Address	Balances

The Pay Bills option will allow you to select from a list of open (Complete field does not contain a Y) receivers and AP vouchers to be paid from a scrollable window. This option allows you print checks or register payments (debit AP, credit Checking) for hand checks and electronic funds payments.

To pay bills by check or credit card, register hand checks and electronic funds payments select Modules, Accounting, Pay Bills / Print/Clear Checks and Select Pay Bills Print Checks.

**Note:** If you need to lower your payment to a vendor and the receiver has already been posted, issue a Debit Memo. Otherwise you can still enter receivers with some line items having a negative amount, but the total of the receiver cannot be negative for Pay Bills to work well.

#### Step 2, Select Age of Receivers and AP Vouchers and Bank Account Chart of Accounts



The accounts payable default screen shown above will allow you to set the minimum age of open (Complete Field does not contain a Y) receivers and accounts payable vouchers to select from.

Checking Include Posted Only will allow you make sure only receivers and AP vouchers that have been posted (with an I type transaction debiting inventory or expense and crediting AP) will be considered for payment.

Select the Bank Chart of Account # and press the OK Button. If the account you are looking for is not available from the drop-down menu, edit that chart of account and make sure the "This is a checking account" box is checked.

pc/MRP looks for a file named lastclos.mem, which contains the month and year that pc/MRP was last closed. If pc/MRP cannot find this file or if the last close did not occur in the current year, pc/MRP will prompt you to enter the balance in the checking account manually. If pc/MRP does find a good current close, it will use the ending balance of last month it was closed and calculate the current balance of the checking account using the checking transactions from the current month found in the accounting transaction file.

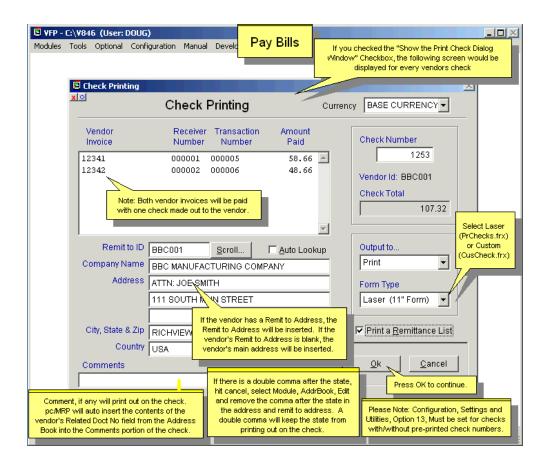
#### Step 3, Select Receivers and AP Vouchers to be paid

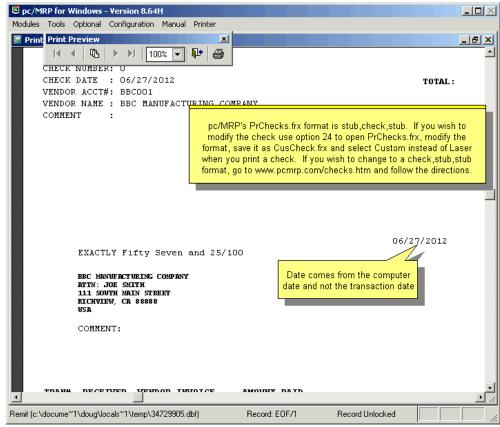
To process (debit AP and credit Checking) receivers, AP vouchers and print checks, select Print Checks Now as shown below. Check date will be the current system date.

Modul	es Tools F	To Print C Print Check transaction and credi	ks Now. 1 will deb t Checki k or Refe	Each it AR ng. available savailable nun rence NV	t the next Check # or he next le check nber.	close endi LastClo	1	d transactior not exist, it u	ns to da ises ALI 0 2	te. If
Pav	Account ID	Receiver #	PO #	Vendor's Invoice #	Due Date	Amount Due	Pay Amount	Check #	Edit 🔺	
7	BBC001	000001	000001	12341	12/30/2009	58.66	58.66		7	
	BBC001	000002	000001	12342	12/30/2009	48.66	48.66		7	
	B 5001	000003	000001	12343	12/30/2009	48.66	0.00	ĘΖζ		
	vouchers	eck the rec you wish t endor will (	to pay. I	lote that	12/30/2009		Check the Edit if you wish to accounts to b and cred	modify the e debited		
Dia	ck the Prin log Screer to change or trays	if you printers	Output	to Form Typ			ser (prchecks or Custom (cu		itrix	
-	Select <u>A</u> ll Select <u>N</u> one	•	Print	Laser (1	1" Form)		<u>O</u> k	<u>C</u> ancel		
(- qty redu Call Sta	Select None       Show the PRINT CHECk dialog window       Ok       Cancel         'you include Posted Debit Memos (reduce the amount), it will reduce the amount), it will reduce the amount of the check.       4. Make sure you have blank checks loaded in the printer and Press OK.       The above test data consisted of 5 bearings at \$10.00 each, 10% discount, 8.125% tax and\$10.00 freight on first receiver. \$0.00 freight on remaining receivers.									

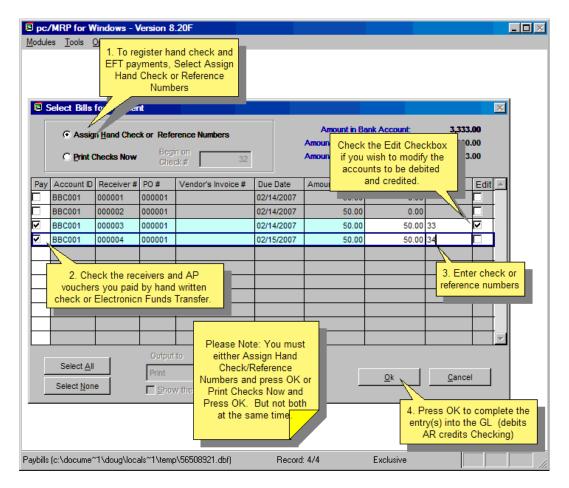
**Note:** You must check the 'Show the PRINT CHECK dialog window' if you need to change the printed check currency from the base currency!

📴 VFP - C:\V846 (	User: DOUG)
Modules Tools Op	tional Configuration Manual Developer more transaction, pc/MRP will display the
	transaction, allowing you to edit the accounts
Accounting	Transaction (New Transaction) and amounts prior to saving the transaction.
x	
<u> </u>	
Transaction #	000005 Type E Related Doc#
Date	11/30/2009 Entered By DOUG Task Sub-Task
Description	BEARING SS Vendor Invoice# 12341
AccountNo	BBC001
Cust / Vend	BBC MANUFACTURING COMPANY Debits Accounts Payable
Receiver #	000001 PO # 000001
	Debit: 58.66 Credit: 58.66 Comments
Extende	d Sale Price 50.00 Account # Description Amount
	ns Discount -5.00 10200000 BANK CHECKING ACCOUNT 58.66
	or Line Item 3.66
	or Line Item 10.00
Total with Ta	
	Paid to Date 0.00
	Amount Due 58.66
4	Amount Paid 58.66
BALANCED	New Account Change Account Remove Account
	Save Cancel
	Press Save to Continue
Creddetail (c:\v846\tra	andetail.dbf) Record: 10/10 Record Unlocked





To process (debit AP and credit Checking) receivers, AP vouchers that were paid by hand check or electronic funds payment, select Assign Hand Checks or Reference Numbers.



Please note that you can either print and process checks, or process hand checks and electronic funds. You can not do both at the same time.

If you selected Print Checks Now, select the receivers and AP vouchers you wish to print checks for. Load the checks into your printer and press the OK Button.

If you selected Assign Hand Checks or Reference Numbers, select the all the receivers and AP vouchers you wish to process. Enter the hand check number or the electronic fund payment reference number for each receiver or AP voucher selected. Press the OK Button (No checks will be printed).

In both cases, an 'E' type transaction (debit AP, credit Checking) will entered for each receiver or AP voucher you selected.

The "Show Print Check Dialog" checkbox will allow you to stop at each check prior to printing the check.

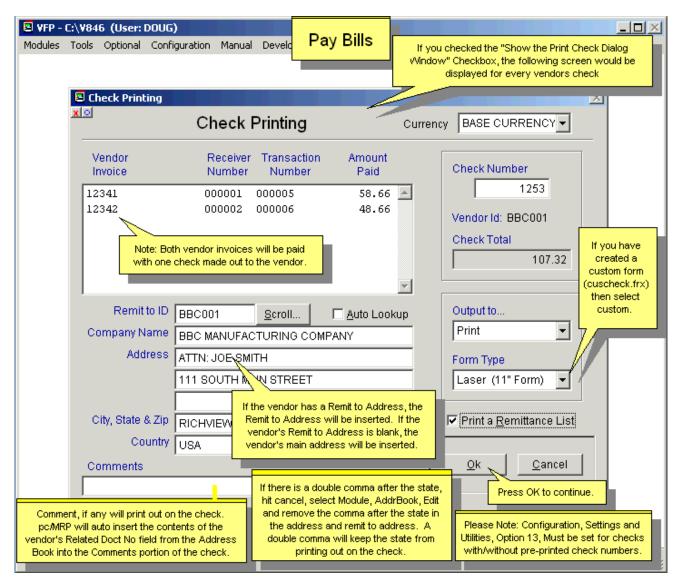
If a specific check has more than 10 receivers, pc/MRP will prompt you to place a blank check form in the printer, print it, and then ask you to place a blank sheet of paper in the printer to print out a remittance list for that specific check as the check stub does not contain enough room to include more than 10 receivers on a stub.

#### **Step 4, Print a Remittance List**

In both cases, you will be asked if you wish to print out a Remittance List (a list of receivers and AP Vouchers that were processed during the check run.

#### 14.14.2 Print Unprinted Checks

The Print Unprinted Checks option will allow you to print checks for accounting transactions that have been entered, but no check was ever printed. pc/MRP will give you the option of select "Pick from all open accounting transactions" or "Build your own list" of accounting transactions to print checks for. If you have a small transact.dbf file, and know the receiver numbers, it is faster to use the "Pick" option. If you have a large transact.dbf file and know the transaction numbers, it is faster to use the "Build" option. The "Pick" option will allow you to select from any transaction that has credited the checking account and whose check printed (ChkPrnted) and cleared (cleared) fields do not contain a "Y". The "Build" option will allow you to enter any transaction number, be careful to select only E (accounts payable expense) or P (cash purchase) type transactions. Both options will consolidate multiple transactions from the same vendor and automatically print out a single check for each vendor.



**Note:** On one occasion a double comma after the state prevented the state from printing out on the check. If you see a double comma after the state, hit Cancel and edit the address to remove the comma after the state in the address and remit to address.

If you have checks with the check number already printed, use Configuration, **Option 13** to have the check printed without the check number.

#### 14.14.3 Print Old Check or Void/Reprint a Check

The 'Reprint Old Checks' option will allow you to reprint checks for accounting transactions that have already had a check printed out. Simply enter the check number you wish to be reprinted. The check number can be changed at this time if needed. If the check number is changed, it is changed in all transactions where the old check number was used.

If you have been using pc/MRP for a very long time, or maybe your company was acquired by another company, it is possible that you had to start re-using the same check numbers. If this is the case, when you enter the number of the check you want to print, next to the recent transaction, a very old transaction (for a different vendor) might show up. Call Software Arts to solve this problem. The support person can change the old checks (all checks before a given date) by e.g. adding an "x" in front of the check number in both the Receiver and the Accounting modules.

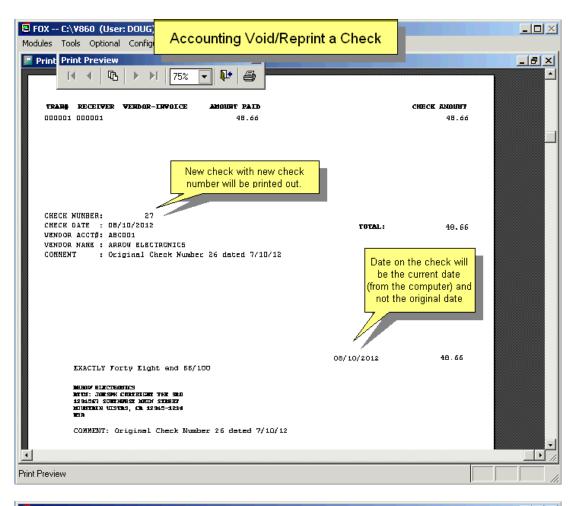
To void a check number and reprint a check (with a new check number) select the 'Reprint Old Checks' option, enter the checking account chart of accounts number, enter the original check number and click OK. pc/MRP will display the screen shown below (remember to change the check#):

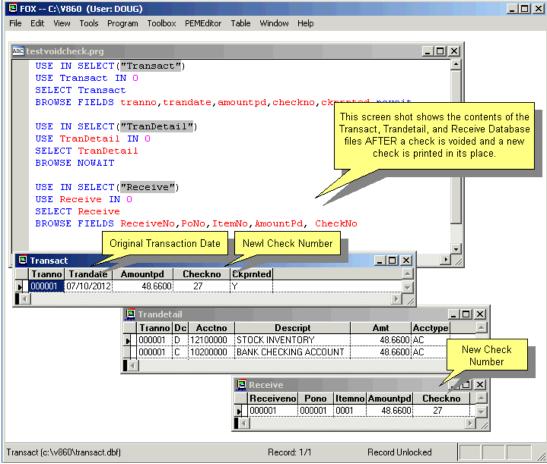
pc/MRP for Windows - Vers			
Check Printing			
	Check Printing	Currency	
Vendor Invoice	Receiver Transaction Number Number	Amount Paid	Check Number
	000001 000001	50.00	101 Vendor Id: BBC001 Check Total 50
Remit to ID Company Name	BBC001 <u>S</u> croll I BBC MANUFACTURING COMPA	Auto Lookup	Output to Print Form Type
Note: This method does not leave a record of the old check number. To do	11 SOUTH MAIN STREET		Laser (11" Fd
so would require you to zero out the original transaction, edit the receiver's amount paid field and enter new e type	ICHVIEW, CA 88888 SA		Print a <u>R</u> emittance List
transaction with a rew check number.			(3) Press OK. Both the original transaction and the receiver will now contain the new check number.

Note: The 'Currency' dropdown list allows you to print checks in an alternate currency.

**Note:** These methods do not leave a record of the old check number. To leave a record of the old check number, zero out the original accounting 'E' transaction. Edit the receiver's amount paid field and enter a new 'E' type transaction with a new check number. If the check payee needs to be changed, edit the accounting transaction and change the address account ID.

Configuration, **Option 13** will allow or prevent re-printing old checks.





#### 14.14.4 Clear/Unclear Checking Transactions

To clear **checks** and **deposits**, select Modules, Accounting, Pay Bills, and Clear Checking Transactions. pc/MRP will then allow you to check checks and deposits that have been cleared by the bank as per the screen shown below.

🗧 VFP - C	:\ <b>¥846</b> (	User: DOUG)						
Modules 1	Tools Op	tional Config	uration <u>Man</u> u	ial Developer	Heln			
					ecks tab to cl nas received cl		ect the Deposit tab to ts (bank has received	
		lect the Cheo	ks 8-Depr	chat have	cleared the Ba	ank		
	×		Chec <u>k</u> s				s	
		Cred	its to Che	ecking		mber of Credits: <b>2</b> Total of Credits: <b>155.</b> 9	)8	
	Clear	r Date	Transact#	Check#>>>	Account ID	Vendor Invoice #	Amount Paid 🔺	
		11/30/2009	MULTI	1253	BBC001	MULTI-INVOICES	107.32	
		12/02/2009		1254	BBC001	12343	48.66	
		12/02/2009	000014	1255	BBC001	12344	48.66	
		2. Clear th by checkir checks the recei	ng off the bank has	pai	this example \$58.66 and \$- id for in a sing the vend	48.66 were le check to or.		
						<u>0k</u>	<u>C</u> ancel	
Consolchk (	c:\docume	e~1\doug\local	s~1\temp\37(	000470.dbf)	Record: 2/	'3 Exclusiv	e 📃	

This option allows you to scroll and pick from all uncleared transactions (transactions whose cleared field does not equal "Y" and debits or credits the checking chart of account number). If the transaction database file is large, you must allow quite a bit of time for it to set the filter to display only transactions that debit or credit the checking account.

Once you are finished clearing your checks and deposits, you can run a Check Reconciliation Report to see the difference between pc/MRP's and the banks checking account balances. To display or print a Check Reconciliation Report, select Modules, Accounting, Reports, and Check Reconciliation Report.

The Unclear Checks option will allow you to clear a check for a specified transaction number.

#### **14.14.5 Remittance Reports**

The Print Remittance Report option will allow you to print a check remittance report for:

- A specified transaction number.
- A check number range
- A date range
- All checks for a checking account number
- For the last check run

#### 14.14.6 Ordering Checks and Envelopes

We recommend you order  $8-1/2 \ge 11$  style checks that can be printed out with a normal laser or ink jet printer. When you order checks make sure the starting check numbers starts where your last check is 1 or more greater than the last check number on your current checks. You may have to call to find out what format your check provider sends out their checks in. Stub, Check, Stub OR Check, Stub, Stub

1. pc/MRP defaults to printing checks as Stub, Check, Stub so order that style.

2. If you want to print out checks formatted as Check, Stub, Stub. Then click on the link below. Right click on the downloaded file and select Extract All and check Show Extracted Files. Copy the two extracted files cuscheck.frx and cuscheck.frt into your pc/MRP folder and from then on when you print a check, select Custom instead of Laser. If the pc/MRP folder has cuscheck.frx and .frt it will default to Custom. https://pcmrp.com/patch/checks810.zip

In either case if the checks need adjustment with the position of the Name, Dollar Amount, and or Date it can be done using Configuration, Settings and Utilities, Option 24 and saving the modified form as CusCheck.frx. The modified format can be tested using a blank piece of paper and Reprint Old Check. Please feel free to call Software Arts at 408-226-7321 and we can remote in and make the modifications with you. From then on, select Custom instead of Laser. If the pc/MRP folder has cuscheck.frx and .frt it will default to Custom.

#### 14.14.7 Selecting a Printer for Checks

pc/MRP will automatically use the default printer to print checks. You must set the printer you wish to print checks with as your default printer. If you do wish to select a printer when printing a check, create a txt file named **MLTCHK.UMF** with Notepad and place it in your pcmrpw directory.

#### 14.14.8 Check Numbers

When entering a Pay Bills E, P, or A type transaction, check numbers can only be entered and changed in the Print Check screen and not the Transaction screen. pc/MRP will display the next available check number in the Print Check screen. The user can change the check number. Please remember that pc/MRP will start the check number sequence based upon the last check number used.

When entering an E, P, or A type transaction, the check number will not be displayed.

When editing an E, P, or A type transaction, the check number will be displayed but NOT editable.

To reprint a check, use the "Reprint Check" option. You can use the original check number or a different check number. If you use a new check number, the original accounting transaction and receiver will contain the new check number. If the new check number is greater that the 'next available check number', pc/MRP will restart the check number sequence. If the new check number is less than the 'next available check number', pc/MRP will display a warning with an option to go back and change the check number or proceed.

pc/MRP does not allow more than one person to print checks at the same time.

#### 14.14.9 Remittance Address

It is important to remember that a checking transaction has both a remit-to address ID and a vendor address ID. pc/MRP allows users to select a different remit to address when printing a check. The remit to address (remit\_to) is not displayed in the data entry transaction screen.

### **14.15 Term Discounts**

#### **14.15.1 Term Discounts**

Customers often ask for term discounts such as 2% Net 10, meaning a 2% discount will be given provided the customer pays within 10 days. The terms discount information is stored in the invoice's terms field and the trade discount information is stored in the invoice's discount field. (**Note:** A trade discount is a discount given to a customer regardless of the payment terms.)

Since one is never sure if a customer is going to take advantage of the payment terms offered, term discounts require some special handling as shown in the example below:

Assume a customer is invoiced, given a 20% trade discount and a 2% Net 10 terms discount on the invoice.

After the customer is invoiced, enter a general ledger transaction to "Register the accounts receivable invoice (O)". The discount field in the invoice would be 20% and the terms field would read 2% Net 10. pc/MRP will include the trade discount but not the terms discount as it has no idea if the customer will pay on time.

If the customer pays, but not within 10 days, enter a general ledger transaction to register the "Accounts Receivable Payment (R). pc/MRP will include the trade discount but not the terms discount.

If the customer pays within 10 days, taking advantage of the terms discount, edit the first line item on the invoice, add the terms discount to the trade discount (20% would be changed to 22%), save the line item and answer YES to update the header on all line items and <u>then enter a general ledger transaction (accounts receivable payment)</u>. Enter the amount received as the amount received, Debit checking for the amount of the check, debit sales discount for the 2% difference, and credit accounts receivable for the full amount originally due.

## 14.16 Factored Invoices

#### 14.16.1 Overview

The following methods of handling factored invoices assume:

- You know you are going to sell the invoice to the factoring company before you create the invoice.
- The invoice contains a remit to address to the factoring company. The remit to address could be rubber stamped onto pc/MRP's standard invoice or you could use pc/MRP's custom report writer to create a custom invoice that would contain the remit to address in the note section of the custom invoice. (For accepted names for the custom form see Section 15.4.2 in this Manual.)
- The invoice for the full AMOUNT is sent to the customer and factoring company.
- The factoring company sends a check for a portion of the invoice.
- The customer sends a check for the full amount to the factoring company.
- The factoring company notifies you that the invoice has been paid.

#### **14.16.2** A simple method for handling factored invoices:

Enter the invoice for the full AMOUNT, print several copies, and send them to the customer and factoring company.

Edit the invoice and put the factoring % in the discount field. Reprint the invoice for your own copy showing the total amount and the discounted amount.

Enter an O type accounting transaction to register the accounts receivable invoice debiting AR and crediting business income for the reduced AMOUNT.

When you receive the check for the reduced AMOUNT from the factoring company, enter an R type accounting transaction. pc/MRP will credit AR and debit the checking account for the reduced amount automatically.

#### 14.16.3 A more sophisticated method for handling factored invoices:

Enter the invoice for the full AMOUNT, print several copies, and send them to the customer and factoring company.

Enter an O type accounting transaction to register the accounts receivable invoice debiting AR and crediting business income for the full AMOUNT.

When you receive the check for the reduced AMOUNT from the factoring company, enter an A type accounting transaction. Credit invoice factor liability and debit checking for the reduced amount.

When you receive notification from the factoring company, that the customer has paid the invoice, enter an R type transaction for the invoice, debit invoice factor liability, debit invoice factor expense, and credit AR for the full AMOUNT of the invoice. You could open pc/MRP's or Window's calculator to subtract the reduced payment AMOUNT from the full AMOUNT to calculate and then paste in the expense AMOUNT.

# 14.17 1099MISC and 1096 IRS Tax Forms

14.17.1 1099MISC and 1096 IRS Tax Forms Overview

Dec/MRP for Windows Modules Tools Optiona		Form 1099 Overview		_ <b>_</b> X
Modules Tools Optiona Inventory BOMs Stockgroom Burchase Beceive Work Order Sales Order Shipment Accounting Accounting Stockgroom Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Shipment Stockgroom Stockgroom Shipment Stockgroom Stockgroom Shipment Stockgroom Stock			D	
E⊻t	Print Eind Addresses/Contact: Index Remove Marked Records	s To set up Independ receive 1099 forms Address Book	ent Contractors to , select Modules, <, Edit/View	1000
		Check with your CPA as to wh (Independent Contractors LLCs and nothing (most corporations QuickBooks provides some gui https://quickbooks.intuit.com/n	;, Partnerships, and Law ). idelines:	yers),
Edit an existing Customer/V	endor Address-Book entry		[	

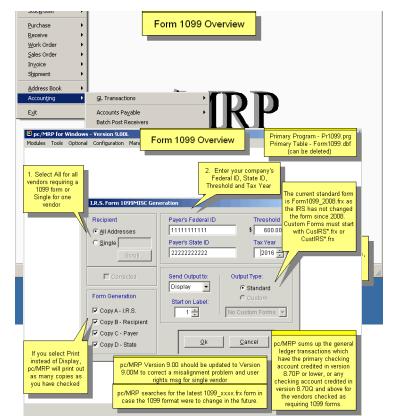
pc/MRP has the ability to print 1099MISC and 1096 IRS tax forms. This feature is accessible by selecting the Accounting Module and IRS Tax Forms. This feature allows users to define address entries that require a 1099 form, print and display the forms, define the tax year, threshold, recipient, and a number of other items. When generating the forms, pc/MRP will automatically search through all of the invoices, based on the criteria defined, and print the forms accordingly.

#### 14.17.2 Defining Address Entries that Require a 1099

Address Book Edit Mode     Addr Id Company Name     ALL001     ALLIED ELECTRONICS     1. Select the Sales Contact Tab     2. Enter the Tax ID #     10986353     Salesman     Salesman email     ISM@CANA COM     Tax Code     Tax Code     Tax Type     None     Sales Level     1     Discount     0.00     Territory     Sales Level     1     Discount     0.00     Territory     Ship Via     FOB     Related Doc #     ReLATEDCONTRACTINUI     Resale #     Credit Limit     0.00     Supplier ID	pc/MRP for Windows - Version 9.00 Modules Tools Optional Configuration	Earm 1099 Overview	×
Salesman email       ISM@CANA.COM       Image: Constraint of the second	Addr Id Company Name           Addr Id         Company Name           ALL001         ALLIED ELECTR	RONICS 2. Enter the Tax ID #	
	Salesman email ISM@CAN Commission % 10.00 Region Territory Sales Level 1 D Terms TERMS 29 Ship Via FOB	NA.COM Tax Code Division Tax Code Tax % 0.0000 Tax Type None Concern Tax Type None Tax Type None Concern Tax Type None Tax Typ	
Yearly Quota     0.00     Requires barcode data identifiers       Labels     Logbook     Logbook     Delete     Ok     Cancel	Credit Limit	0.00 Requires barcode data identifiers	

Each address entry can be defined as requiring a 1099 form. Select the address desired in the address book module, click on the **Sales Contact Info** tab, click the check box next to **IRS Form 1099** and fill in the Tax ID numbers (federal and state) for the vendor. The check box must be checked and Tax ID number must be populated with at least 7-digits to work correctly. Having this check box checked will flag pc/MRP to create the necessary forms based on the receivers that were posted to the GL for that vendor.

# 14.17.3 1099 MISC IRS Form



Selecting Modules, Accounting, IRS Tax Forms, Form 1099 Misc will display the below screen. Pressing the OK Button (calls Pr1099.prg) will display/print a 1099 MISC form for all vendors or a specified vendor for the selected tax year. It uses all accounting transactions for the vendor entered during the specified year that contain a credit to any checking account within the first 5 credits of each transaction. The vendor's address book 1099 Form Checkbox must be checked and the vendor's Tax ID must be 7 characters or greater. Select the forms that you want to generate. The system will prompt you to load the form before it starts to print the form.

🗏 I.R.S. Form 1096	
Payer's Federal ID	Tax Year 2002 📩
Federal ID Type	Total Number of 1 + 1099 Forms Total Amount of 1.00 + the 1099 Forms
✓ Printed Address     ✓ Final F     Our Contact     Contact Phone     ( ) -     Contact Fax     ( ) -     Contact E-Mail	Return Send Output to: Display  Output Type: Standard Oustom No Custom Form
	<u>D</u> k <u>C</u> ancel

Selecting Modules, Accounting, IRS Tax Forms, Form 1096 will display the above screen allowing users to print out one or more 1096 forms for the specified Tax Year.

# 14.17.5 Purchasing IRS Tax Forms

IRS 1099MISC and 1096 forms can be purchased at any office supply store. (Office Depot, Staples....) Be sure to purchase forms for the specific tax year that the forms are to be printed for. Tax forms do change year by year.

Changes to the IRS1099 form that do not necessitate a change in the form layout will still use the current form layout within pc/MRP regardless of what year the program says; just accept the form year. For 2016, the layout is still the same as for year 2008.

### 14.17.6 IRS Tax Forms Troubleshooting

If there are any problems having the forms match correctly to the pc/MRP 1099MISC or 1096 report be sure that the correct year was selected when printing the form. If the forms still do not match after verifying the year, contact Software Arts.

If no matching data is found, make sure the Tax ID and the 1099 check box is checked within the Address entry desired.

# 14.18 Wells Fargo Account Reconcilement (Positive Pay) Option

# 14.18.1 Wells Fargo Account Reconcilement Overview

pc/MRP contains the Wells Fargo account reconcilement (Positive Pay) option. This option allows companies to create a file containing all checks written during the date range selected. The file, named Batchxxx.arp, can then be sent over the internet to Wells Fargo. If you implement this program with Wells Fargo, Wells Fargo will only cash checks that have been registered via one of your Batchxxx.arp files. If a check is not in any of your Batchxxx.arp files or the amount of the check differs from the registered check, Wells Fargo will call your company, asking if you wish them to cash the check

# 14.18.2 Wells Fargo Account Reconcilement Settings

📮 Wells Fargo Account Reconcilment File (ARP) 🛛 🔀
<u>F</u> ile Generation <u>S</u> ettings
Last Batch # Next file to be created       0     Batch1.ARP
Export File Path
<u> </u>
Remote ID (RID)
ABC CO.
Batch ID (BID)
ABC ARP INPUT FILE
Reguest a Confirmation File
Save Defaults       View Log

Prior to sending your first batch, you must enter your batch settings as follows:

**Last Batch Number** pc/MRP will automatically increment the number, you can however start at a number higher than 1. If you leave the Last Batch Number at 0 when you generate your first batch, pc/MRP will automatically name the batch file "Batch1.ARP".

Remote ID (RID) Enter the Remote ID that Wells Fargo assigns your company.

Batch ID (BID) Enter the Batch ID that Wells Fargo assigns your company.

**Export File Path** Press the ellipsis button to the right of the Export File Path text box to locate the drive and directory you would like the Batchxxx.arp to be deposited into. The path displayed within the field will be relative to the pc/MRP main folder. An empty field means that the files will be created within the pcmrpw folder.

**Request a Confirmation File** Check the Request a Confirmation File check box if you wish Wells Fargo to send back a confirmation file containing the check numbers included in your batch.

#### 14.18.3 Creating a Wells Fargo Account Reconcilement Batch File

Eile Generation Settings
Chart # Bank Account #
10200000         4600019876
Add <u>R</u> emove
Date Range
Start Date         End Date           01/01/1985         to         01/28/2002
Save Defaults           View Log

- 1. If you have not entered the pc/MRP chart of account number for your company's checking account, do so now by pressing the add button. You can enter more than one Wells Fargo Bank account. If you have entered the Wells Fargo Account(s), select the accounts you wish to create a batch file for by checking the respective check boxes.
- 2. Enter the Start and End Dates (Wells Fargo's program does not mind if you accidentally send the same check number again).
- 3. Press the Save Defaults button to save the above settings as your default settings.
- 4. Press the Generate button to create the file.
- 5. Log into your Wells Fargo Internet account and send the file you just generated.

14.18.4 Viewing your Wells Fargo Account Reconcilement Log

📱 Wfe_arp.log - Notepad	×
<u>File E</u> dit <u>S</u> earch <u>H</u> elp	
Start Batch1.arp       01/14/2002       to       01/21/2002         \$\$ADD ID=ABC CO.       BID='ABC ARP INPUT FILE'         WRRECU       4600019876         000000797701150246000198763200000066411         000000797801150246000198763200000052556         000000797901150246000198763200000641568         000000797901150246000198763200000641568         000000079800115024600019876320000041568         000000074700         &       00004         00004       0000175235         \\\\\\	4
	4

Pressing the View Log, will bring up your Wells Fargo account reconcilement log shown above.

- The first line of any batch contains the word "Start" followed by the batch number, the starting date and ending date.
- Had you selected a confirmation file the next line would contain your confirmation record (none shown on the above example)
- The second and third lines in the above example contain your sign-on and header records.

The detail records would consist of the following:

- Characters 1 through 10 contain the check number (0000007977)
- Characters 11 through 16 contain the check date (01/15/02).
- Characters 17 through 26 contain the bank account number.
- Characters 30 through 39 contains the check amt (0000006411 = \$64.11).

To view a specific batch number or check number, open up the log file, select Search and enter the batch number or check number. The individual batch files themselves can be viewed using Windows Notepad.

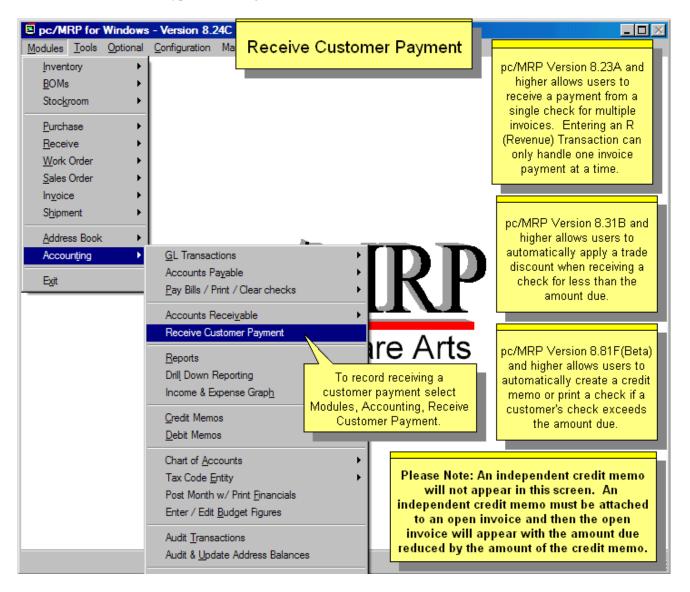
# **14.19 Receiving Customer Payments**

### 14.19.1 Overview

For detailed, step-by-step instructions see http://www.pcmrp.com/mrp101/customerpaymentmenu.htm

Also see Chapter 14.21 Processing Credit Cards.

Customer payments can be received using the 'Receive Customer Payment' menu item as shown in the following screen shots, or with 'R' type accounting transactions.

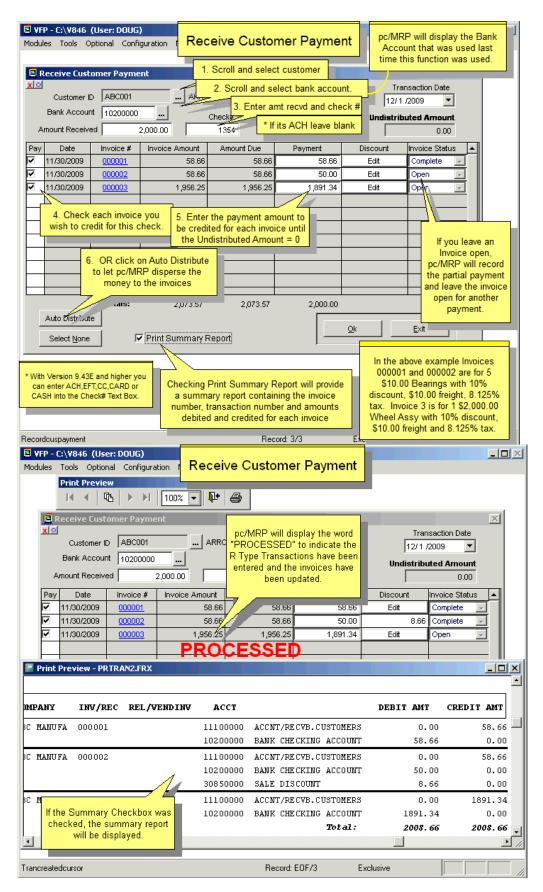


**Note:** An independent credit memo will not appear in this screen. An independent credit memo must be attached to an open invoice and then the open invoice will appear, with the amount due reduced by the amount of the credit memo.

**Note:** pc/MRP allows users to automatically apply a trade discount when receiving a check for less than the amount due.

**Note:** You can receive a single check for multiple invoices. (Entering an R (Revenue) transaction can only handle one invoice payment at a time.)

#### 14.19.2 Select the customer and process the transaction



You can now deposit another check for another customer, or click on Exit if you are finished.

# 14.19.3 Handling discount

No. of Concession, Name	F <b>P - C:\V846</b> ( Iles Tools O	-		ceive Custo	mer Payme	nt	-	
×	Receive Custo Customer IC Bank Accoun	ABC001		for the SWELECT due	scount Amount i remaining amour and can not be red by the user.	nt Trai 12/1	Insaction Date /2009  uted Arnount 0.00	
Pay	Date	Invoice #	Invoice Amount	Amount Due	Payment	Discount	Invoice Status	
V	11/30/2009	<u>000001</u>	58.66	58.66	58.66	Edit	Complete 🚽	
	11/30/2009	<u>000002</u>	58.66	58.66	50.00	8.66	i Open 📃	
	11/30/2009	<u>000003</u>	1,956.25	1,956.25	1,891.34	Edit	Open 📃	
Inv	ply Sales Disc roce Total Am woce Amount	iount:	oice#000002 58.66 58.66 50.00		amount must be nount due on the	e for the	e Discount Amount w pw be displayed in the Discount Column	
	Discount Am Discount Acc Apply the Disc	count: 3085	8.66 0000 ancel the Discount	Settings an	d Utilities, Optio		Exit Chart of Accounts set ou can scroll and sele	
Recor	dcuspayment	com	plete the invoice liscount towards	and apply the the invoice.	ord: 2/3	Exclusive		

	<b>:\V846 (Use</b> Tools Option	e <b>r: DOUG)</b> hal Configura	<sub>ition</sub> r Recei	ve Custom	er Payment			<u> </u>			
-											
		omer Payme	ent 👘					×			
×	Customer II		ARRC	WV ELECTRONICS			ansaction Date				
	Bank Accour	nt  10200000		Check#		Undistri	ibuted Amount				
A	mount Receive	ed 🔤	2,000.00	1354			0.00				
Pay	Date	Invoice #	Invoice Amount	Amount Due	Payment	Discount	Invoice Status				
2	11/30/2009	000001	58.66	58.66	58.66	Edit	Complete	~			
$\overline{}$	11/30/2009	000002	58.66	58.66	50.00	8.6	6 Complete	<b>*</b>			
	11/30/2009	11/30/2009	11/30/2009	11/30/2009	1/30/2009 000003		1,956.25	1,891.34	Edit	Open	-
				be clo	s example, the to osed (complete). emain open waitir some time in	The bottom in ig for a payme	voice	_			
		Totals:	2,073.57	2,073.57	2,000.00						
	Auto Distribut		Print Summary F	Report		<u>O</u> K	Exit				
			payn	Click on OK to p nents. pc/MRP t checking, and debit sales dis	will credit AR, (if necessary)						
ordcus	payment			Record	2/3 E	xclusive					

# 14.19.4 Handling overpayment

pc/MRP for Windows - Version 8.81D Modules Tools Optional Configuration Payment - Overpayn	
	mount Received omer Check # Undistributed Amount 1,000.00
Pay     Date     Invoice #     Invoice Amount     Amount Due     P       ✓     10/29/2013     000001     40,000.00     40,000.00       ✓     3. Check the invoices to be paid with this check.     —     —	ayment Discount Invoice Status  40,000.00 Edit Complete  40.000.00 Edit  40.000.00 Edit  4. Enter Payment  amount applied to  the invoice
Totals:     40,000.00       Auto Distribute     Print Summary Report	40,000.00
FOX C:\V881 ( Modules Tools Opl     Receive Customer Payment - Over If the check exceeds the amount of the selected invoices, pc/MRP memo or Print a check for the overpayment as shown below. If you transactions for each invoice selected, debiting checking, crediting A and insert a Y into the complete field of each line item of each invoi with line item ODAR, Description AR Overpayment, Qty=1, Saleprice a Credit Memo (Invoice with line item 00CM, Description Overpayn overpayment). 4. Create a normal S type transaction for the AR Vol Income for the amount of the overpayment, insert a Y into the AR Vol	will prompt the user to Make a credit hit OK, pc/MRP will 1. Create R type R for the actual amount of each invoice ce. 2. Create an AR Voucher (Invoice = amount of overpayment). 3. Create hent, Qty=-1, Saleprice = amount of bucher (Debiting Checking, Crediting
Overpayment Detected       X I       The payment amount received is greater than the amount distributed.	5. pc/MRP will create an Inverse O type transaction for the CM (Debiting Income, Crediting AR for the + amount of the overpayment, Description Overpayment Customer Check xxxx, Comments Overpayment, insert a Y into the Posted and Complete fields of the CM).
How do you want to handle the overpayment?	pc/MRP Versions 8.81B and lower would allow you to apply the overpayment to the last invoice selected.
Select Need Press OK to Receive Customer Return to the Press Cancel to Return to the Press Cancel to Return to the Press OK to Press OK to Pres	RP will Create an Inverse S type transaction M (Debiting Income, Crediting Checking for amount of the overpayment, Description nent Ind CM xxxxx, Comments Overpayment er Check # xxxx, insert a Y into the Posted

# 14.20 Retainer Accounts

#### 14.20.1 When you should use a Retainer Account

If a customer sends you money for future sales orders that he has not placed, that is a retainer. Follow the steps detailed later in this chapter.

If a customer calls and complains that you invoiced him for bad parts and he wants a credit, follow our credit memo instructions, Chapter 14.10.

If a customer sends you a deposit for a specific sales order, follow our instructions for a sales deposit for a specific sales order, Chapter 14.12.

# 14.20.2 Setting up and using Retainer Accounts

pc/MRP for Windo	ws - Version 9.00M	<b>.</b>		1
Modules Tools Option	-		er Accounts	If a customer calls and complains that you invoiced him for bad parts and he wants a credit, follow our credit memo instructions.
Chart of Account	5		1	
Account # 2420 Debit/Credit Cred			ount is inactive s is a Credit Card Acct	If a customer sends you a deposit for a specific sales order, follow our instructions for a sales deposit for a specific sales order.
				If a customer sends you money for
Description RET	AINER	1. Crea	te a Retainer	future sales orders that he has not
Sub Account of			int. This is a	placed, that is a retainer. Follow
		liabili	ty account.	these steps.
Period	Starting Bal	Ending Bal	Budget	-
Period 01	0.00	0.00	0.00	
Period 02	0.00	0.00	0.00	
Period 03	0.00	0.00	0.00	5
Period 04	0.00	0.00	0.00	Þ
Period 05	0.00	0.00	0.00	
Period 06	0.00	0.00	0.00	
Period 07	0.00	0.00	0.00	
Period 08 Period 09	0.00	0.00	0.00	
Period 09 Period 10	0.00	0.00	0.00	
Period 11	0.00	0.00	0.00	
Period 12	0.00	0.00	0.00	
	0.00	0.00		
Delete		<u>S</u> ave/Exit	Cancel	
Periodchart			Record: 1/12	Exclusive NUM

	al Configuration Mar	Retainer						
Chart of Accounts					×			
Account # 24210	0000 Acct Type		unt is ina	active				
Debit/Credit Credit				dit Card Acc	<b>t</b>			
Description Retain								
· · · · ·								
Sub Account of 24200000								
124200000					-			
Period	Starting Bal	Ending Bal	Bug	I fant				
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Period 02 Period 03	0.00	0.00		Acco	unt, to hold	I this cus	stomer's n	noney.
Period 03 Period 04	0.00	0.00		0.00				
Period 05	0.00	0.00		0.00	Р			
Period 06	0.00	0.00		0.00				
Period 07	0.00	0.00		0.00				
Period 08	0.00	0.00		0.00				
Period 09 Period 10	0.00	0.00		0.00				
Period 11	0.00	0.00		0.00				
Period 12	0.00	0.00		0.00				
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Transaction #     000010     Type     A       Date     02/10/2016     Entered By       Description     Pre-payment to Retainer       AccountNo     ALA001        Cust / Vend     Alaska Cyclery	Credit Card [None] + Tax Amt 0.00 Approval Code Total Charge 0.00
Related Doc# TaskSub-Task	Debit:     1,000.00     Credit:     1,000.00     Comments       Account #     Description     Amount
Vendor Invoice# 3a. When the customer sends the pre-payment, enter an A-type accounting transaction. Debit your Checking Account BALANCED	10200000         BANK CHECKING ACCOUNT         1,000.00           1         1,000.00         1,000.00           1         1         1,000.00           1         1         1,000.00           1         1         1,000.00           1         1         1,000.00           1         1         1,000.00           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1           1         1         1<
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pc/MRP for Windows - Version 9.00M Modules Tools Optional Configuration Manua Accounting Transaction (New Transaction # 000010 Transaction # 000010 Type A Date 02/10/2016 Entered By Description Pre-payment to Retainer AccountNo ALA001	Amount Check # 0423 Credit Card Tax Amt 0.00 Approval Code
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pc/MRP for Windows - Version 9.0011 Modules Tools Optional Configuration Manual Transaction # 000010 Type A Date 02/10/2016 Entered By Description Pre-payment to Retainer AccountNo ALA001 Cust / Vend Alaska Cyclery Related Doc# Task Sub-Task Vendor Invoice# 3b and credit their Retainer	Amount  Check # 0423  Credit Card [None]  Tax Amt 0.00 Approval Code  Debit: 1,000.00  Credit: 1,000.00  Comments  Account # Description  Amount
pc/MRP for Windows - Version 9.0011 Modules Tools Optional Configuration Manual Transaction # 000010 Type A Date 02/10/2016 Entered By Description Pre-payment to Retainer AccountNo ALA001 Cust / Vend Alaska Cyclery Related Doc# Task Sub-Task Vendor Invoice# 3b and credit their Retainer Account.	Amount Check # 0423 Credit Card [None] Credit Card [None] Total Charge 0.00 Debit: 1,000.00 Credit: 1,000.00 Comments Account # Description Amount 24210000 Retainer for ALA001 1,000.00 Comments

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	📮 Ac	counting	Transaction (New	on (New Tra Customer				×			×	
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	C	Description	Bicycle, Women's	, 1108			Tax Amt	[None]	0.00		+	
		AccountNo				Tota	al Charge		0.00 Ap	oproval	Code	
	C	ust / Vend	Alaska Cyclery		_				0.00 j			
	_	Invoice #	1000007	*# 000008								
	Re	lated Doca			Deb	it: 120.00	Cr <u>e</u> dit	: 120.00	C <u>o</u> mm	ents		.
	0	Tasl		b-Task	Acco	unt # De	scription				Amount	
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# 14.21 Processing Credit Cards

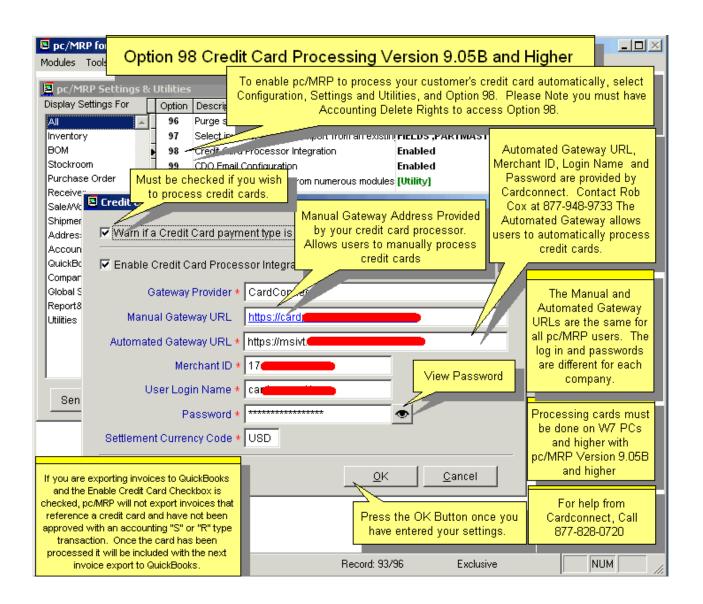
# 14.21.1 Overview/Setup

For detailed, step-by-step instructions see http://www.pcmrp.com/mrp101/ccintegrationoverview.htm

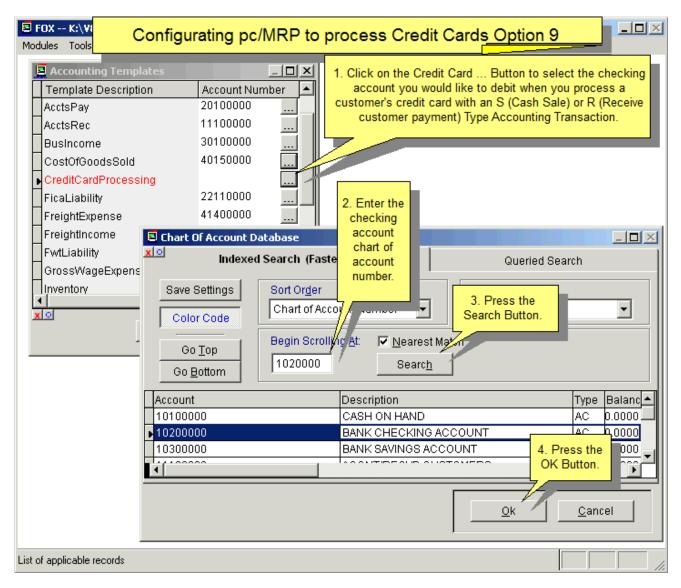
For Automatic Credit Card Processing, CardConnect, must be your credit card processor. pc/MRP provides a link with all other providers to manually process credit cards. pc/MRP supports Visa, MC, AMEX and Discover.

B FOX K:\V856 (User: DOUG) Modules Tools Optional Configur	cessing Credit Cards Overview							
pc/MRP will automatically process your customer's credit cards (must use CardConnect as your processor). If the credit card goes through, pc/MRP will display the message shown below, grey out the credit card number, insert the approval code, transfer the money to your bank and fill in the Comments on the transaction itself.								
Date 05/18/2011 Entered By	DOUG							
Description REAR WHET Processing St								
AccountNo ABC001	0.00 Approval Code Credit Card							
	e credit card was successfully processed. 0.00 097434							
Invoice # 200014	edit card processor's website							
Related Doc# RELATED D								
Task								
Customer PO#	Transaction Press OK Click here if you want to open							
Salesman ROBERT BILL SALESMAN	Local Time: 05/18/2011 10:33:08 AM up your own processor's web							
Commission % 10.00	Holder: Jim Smith site and manually process the							
	Card No: 4XXX-XXXX-XXX-8291 Expires: 1115 Card number, amount, etc.							
Extended Sale Price 4,000.	00 Type: S							
Terms Discount 0.0 Tax for Line Item 0.0	Proc ID: 100001988337							
Freight for Line Item 0.								
Total with Tax & Freight 4,000.	default credit cord account							
Amount Paid to Date 0.1 Amount Due 4,000.1	CVV Msg: Match (usually a checking account)							
Amount Received 4.000.	AVS Code: A and Crediting Business Income							
For Automatic Credit Card Processing,	pc/MRP distributes 3 new							
CardConnect, must be your credit card processor. pc/MRP provides a link with	files to support credit card							
all other providers to manually process								
credit cards. pc/MRP supports Visa,	wwDotNetBridge.dll)							
MC, AMEX and Discover.	Exclusive //							

Use Configuration, Settings & Utilities, Option 98 to enable credit card processor integration.



Next select Option 9 to set the default chart of account number that pc/MRP should debit when a credit card is charged. Select Edit template account numbers.



To enter or edit a credit card number for a customer into the Address Book, select Module, Address Book, Edit, enter the company name and select the Credit Cards Button. Users must have Sales, Invoice or Accounting Create Rights or higher to view the credit card screen. Use the  $\circ$  button to quickly fill the billing address with an address you select from the Address book.

For historical purposes, once a credit card has been processed, do not edit or remove the credit card number. You can edit the Expiration Date and add new cards for the customer. Checking Inactive will cause the credit card number to not appear. The sales, invoice and accounting transactions will still display the last 4 characters of the card number. If you want the inactive card numbers to reappear, call Software Arts for a flag file.

# 14.21.2 Entering Sales Orders and Invoices Paid by Credit Card

When entering an On Account an Carry or Cash and Carry Sales Order, or entering and Invoice for an existing Sales Order, you can select the desired credit card form the drop down list. You can enter a new card number for the customer by clicking on the + Button. Or you can leave the credit card information blank for now. If you selected a credit card when entering the sales order, then the credit card number will be transferred into the invoice. If you selected a credit card number for the invoice, it will be transferred into the accounting transaction.

Entering an order entry sales order for a	a credit card with Auto Accting Off
Solvo # 100086 Change # 0 Order Date 05/17/2011 Sales Type Order Entry  Customer Billing / Shipping Delivery I Root Addres Customer ARROW ELECTE None will be automatically inserted into the Credit Card Field	The drop down list box will allow you to select one of the customer's credit card numbers you have on file in the Address Book for this customer.
Customer ARROW ELECT into the Credit Card Field. Address ATTN: JOESPH CA Street 1234567 SOUTHWEST MAIN STREET Credit C Customer	
	ntact 4XXX-XXXX-XXXX-8291 11 / 15 Jim Smith n
e-Mail JSM@ABCTIRE.COM	egion SVVA REGION d By DOUG Lookup Model Number
With Auto Accounting Off (Configuration, Settings and         REAR WHEEL AXLE ASSY           000000         0.000         0.000         0.00         0.00	C % Req Ship Date     Req Arrival Date       .00     10/10/2011
Utilities, Option 8), the credit card will be charged when accounting does a Receive Customer Payment or an S or R type transaction to receive payment for the invoice	
Pa Record	d: 6/30 Record Unlocked

# 14.21.3 Charging a Credit Card with an S or R-type Accounting Transaction

The Accountant will enter an S or an R-type accounting transaction. For the manual process they would click on "Open your credit card processor's website". Companies who have a CardConnect account canuse the automated process by simply clicking on "Process Credit Card".

		d with an R Type (Receive Payment) Transaction
transact inserted	e accountant enters an R ion, the credit card numbe from the invoice. Another selected from the drop dov	er is automatically number for the state of the customer by clicking
	artial payment, manually e t Received, Total Charge a	edit Debits, and Tax Amt. Credit Carv 4xxx, xxxx, 8201
		Tax Amt 180.00 Approval Code Credit
AccountNo Cust / Vend	ABC001	Total Charge 1,990.00 Card
Invoice #	200016 Sale # 100088	Open your credit card processor's website
Related Doc#	RELATED DOC/CONTRACT#	Debit: 1,990.00 Credit: 1,990.00 Comments
Task	Sub-Task	Enne iteration in the second s
Customer PO#		Accnt/RECVB.CUSTOMERS
Salesman	ROBERT BILL SALESMAN	
Commission %	10.00	Click here to manually Click here to
		process the automatically
	Sale Price 2,000.0 s Discount -200.0	
	180.0	Option 98 credit card.
In this exampl	e, accounting first <sup>990.0</sup>	Approval Code
	Type Transaction 0.0	Vour own automatically
	nts Receivable and P90.0 pring an R Type 990.0	provider filled in
	which will credit	NS New Account Change Account Remove Account CardConnect
	eivable and debit	Account.
	edit card account	
	90.00.	You can change the account Save Cancel
		Change Account.
Creddetail		Exclusive
Creddetail		
Accounting T	ransaction (New Transact	Exclusive
	ransaction (New Transact	Exclusive
Accounting T	ransaction (New Transact	tion)
Accounting T		Exclusive       tion)       R     Check #       DOUG   Details of the credit card transaction will
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Accounting T Transaction # Date Description	000010 Type F 05/19/2011 Entered By T WHEEL ASSY	Exclusive         R       Check #         DOUG       Credit Card         4xxx-xxxx-8291       Details of the credit card transaction will be inserted into the comments field         Tax Amt       180.00         Approval C       comments field
Transaction # Date Description	000010 Type F 05/19/2011 Entered By T WHEEL ASSY	Exclusive         R       Check #         DOUG       Credit Card         4xxx-xxxx-8291       Details of the credit         card transaction will       be inserted into the comments field         Total Charge       1,990.00         092314       092314
Accounting T Accounting T Date Description Accountion If the credit will display t grey out the c	000010 Type F 05/19/2011 Entered By T WHEEL ASSY card goes through, pc/MR he message shown below redit card number, insert to	Exclusive         R       Check #         DOUG       Credit Card         Axxx.xxxx.xxxx.8291         Tax Amt         180.00         Approval C         Total Charge         1,990.00         092314         Open your credit card process         Approval C
Accounting T Transaction # Date Description Accounting If the credit of will display to grey out the c approval code	000010 Type F 05/19/2011 Entered By T WHEEL ASSY ABC004 card goes through, pc/MR he message shown below	Exclusive         R       Check #         DOUG       Credit Card         Credit Card       4XXX-XXXX-8291         Tax Amt       180.00         Approval c       comments field         Total Charge       1,990.00         Open your credit card process       rs website
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Accounting T Transaction # Date Description Accounting If the credit of will display to grey out the c approval code	000010 Type F 05/19/2011 Entered By F WHEEL ASSY Card goes through, pc/MR he message shown below redit card number, insert t and fill in the Comments transaction itself.	Ition)       Image: Check #       Image: Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card 4xxx-xxxx-8291       Image: Details of the credit card transaction will be inserted into the comments field         DOUG       Total Charge 1,990.00       Open your credit card process / s vebsite         Open your credit card process / s vebsite       Open your credit card process / s vebsite         Open your credit card process / s vebsite       Open your credit card process / s vebsite         Open your credit 1,990.00       Comments         AccNT/RECVB.CUSTOMERS       1,990.00
Accounting T Transaction # Description Accountion If the credit of will display to grey out the c approval code the Customer Pow	000010 Type F 05/19/2011 Entered By T WHEEL ASSY ABCOOL card goes through, pc/MR he message shown below redit card number, insert f and fill in the Comments	Ition)       Image: Check #       Image: Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card 4xxx-xxxx-8291       Image: Details of the credit card transaction will be inserted into the comments field         DOUG       Total Charge 1,990.00       Open your credit card process / s vebsite         Open your credit card process / s vebsite       Open your credit card process / s vebsite         Open your credit card process / s vebsite       Open your credit card process / s vebsite         Open your credit 1,990.00       Comments         AccNT/RECVB.CUSTOMERS       1,990.00
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Accounting T Transaction # Date Description Accounting If the credit of will display the grey out the c approval code the Customer PO# Salesman Commission %	000010     Type     F       05/19/2011     Entered By     F       WHEEL ASSY     P     F       card goes through, pc/MR     he message shown below     redit card number, insert tansaction itself.       ROBERT BI     Processing State       10.00     XIO       Sale Price     The	tion)       Image: Check #       Image: Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card 4xxx-xxxx-8291       Image: Details of the credit card transaction will be inserted into the comments field         Tax Amt       180.00       Approval C         Total Charge       1,990.00       092314         Open your credit card process / s vebsite       Vebsite         Debit:       1,990.00       Comments         escription       Amount         ACCNT/RECVB.CUSTOMERS       1,990.00
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Accounting T Transaction # Date Description Accountile If the credit of will display the grey out the c approval code the Customer PO# Salesman Commission % Extended Term Tax for Freight for Total with Ta Amount P A	DODOD10     Type       05/19/2011     Entered By       VHEEL ASSY       VHEEL ASSY       card goes through, pc/MR       he message shown below       redit card number, insert 1       and fill in the Comments       transaction itself.       ROBERT BI       Processing Sta       10.00       Sale Price       s Discount       or Line item       x & Freight     1,990.0       aid to Date     0.0       mount Due     1,990.0	Exclusive         Exclusive         Exclusive         R       Check #         DOUG       Credit Card       Axxxxxxxxxxxx231         Credit Card       4xxx.xxxxxxxxx231       Details of the credit card transaction will be inserted into the comments field         DOUG       Total Charge       1,990.00       Open your credit card process       reveloate         R       Open your credit card process       reveloate       Pressite         on       Packet       Amount       Accentrate count       Amount         Accentrate card was successfully processed.       Press the Save Button to save the transaction Debiting the default credit card account (usually a checking account) and Crediting Business Income
Accounting T Accounting T Date Description Accountion If the credit of will display to grey out the c approval code the Customer PO# Salesman Commission % Extended Term Tax fo Freight fo Total with Ta Amount	DODOD10     Type       05/19/2011     Entered By       VHEEL ASSY       VHEEL ASSY       card goes through, pc/MR       he message shown below       redit card number, insert 1       and fill in the Comments       transaction itself.       ROBERT BI       Processing Sta       10.00       Sale Price       s Discount       or Line item       x & Freight     1,990.0       aid to Date     0.0       mount Due     1,990.0	tion)       Image: Check #       Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card       4XXX-XXXX-8291       Details of the credit card transaction will be inserted into the comments field         Total Charge       1,990.00       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card was successfully processed.       Press the Save Button to save the transaction Debiting the default credit card account (usually a checking account) and Crediting Business Income
Accounting T Accounting T Date Description Accountion If the credit of will display to grey out the c approval code the Customer PO# Salesman Commission % Extended Term Tax fo Freight fo Total with Ta Amount	DODOD10     Type       05/19/2011     Entered By       VHEEL ASSY       VHEEL ASSY       card goes through, pc/MR       he message shown below       redit card number, insert 1       and fill in the Comments       transaction itself.       ROBERT BI       Processing Sta       10.00       Sale Price       s Discount       or Line item       x & Freight     1,990.0       aid to Date     0.0       mount Due     1,990.0	tion)       Image: Check #       Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card       4XXX-XXXX-8291       Details of the credit card transaction will be inserted into the comments field         Total Charge       1,990.00       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card process (st. vebsite)       Open your credit card process (st. vebsite)         Open your credit card was successfully processed.       Press the Save Button to save the transaction Debiting the default credit card account (usually a checking account) and Crediting Business Income
Accounting T Accounting T Date Description Accountion If the credit of will display to grey out the c approval code the Customer PO# Salesman Commission % Extended Term Tax fo Freight fo Total with Ta Amount	DODOD10     Type       05/19/2011     Entered By       VHEEL ASSY       VHEEL ASSY       card goes through, pc/MR       he message shown below       redit card number, insert 1       and fill in the Comments       transaction itself.       ROBERT BI       Processing Sta       10.00       Sale Price       s Discount       or Line item       x & Freight     1,990.0       aid to Date     0.0       mount Due     1,990.0	Iton)       Image: Check #       Details of the credit card transaction will be inserted into the comments field         DOUG       Credit Card       4XXX-XXXX-8291       Details of the credit card transaction will be inserted into the comments field         Total Charge       1,990.00       092314       Deen your credit card process       1. website         Press the Save Button to save the transaction Debiting the default credit card account (usually a checking account) and Crediting Business Income       Press NK         Dot       New Account       Change Account       On the credit card account (usually a checking account) and Crediting Business Income

Accounting T	Transaction (New Transaction)	×
J Transaction #	000008 Type S Check # De	tails of the credit
Date		rd transaction will
Description	Credit Card 4XXX-XXXX-XXXX-8291 v be	inserted into the
AccountNo	Tax Amt 0.00 Approved	comments field
Cust / Vend	Total Charge 3 000 00 1000501	
Invoice #	Open your credit card process of	website
Related Doc#		
Task	Transaction Comments	
Customer PO#	*- Credit Card Processing Details -*	
Salesman	LOCAL TIME, 05/19/2011 06:54:57 AM	
Commission %	+ 10.00 Holder: Jim Smith Card No: 4XXX-XXXX-8291	
	Expires: 1115	
	d Sale Price 3,000.00 Type: S ns Discount 0.00 Response: Approved	
	ns Discount 0.00 Response: Approved for Line Item 0.00 Proc ID: 100001991648	
Freight fo	for Line Item 0.00 App Code: 090591	
Total with Ta Amount P	E CV0/ Code: M	
	Amount Due 3,000,00 CVV Msg: Match	
	nt Received 3,000.00 AVS Code: U AVS Msg: Unable to perform address verification	
Amoun	A visitive to perform address verification	
BALANCED	<u> </u>	
Accounting T	Transaction (New Transaction)	×
Transaction #	If the credit card does not go through,	
Date	P pc/MRP will display the reason(s) the	
Description	Card Avvv vvvv svvv svvv svvv svvv svvv svv	Process
	transaction's comments field Amt 0.00 Approvel Code	Credit
AccountNo Cust / Vend		Card
		website
Invoice #	200014	
	RELATED DC Credit Card Declined	
Task	L Am	ount 🔺
Customer PO#	The credit card was declined by the credit card processor with	0.00
Salesman	Clicking on	0.00
Commission %	No Match on CVV Show Details -	
	will display	
	d Sale Price additional additional information If you	can not resolve f
	for Line Item Please resolve this issue before attempting to re-su	by editing the cre
-		d info (press the
Total with Ta Amount F	Paid to Date	on), do not save t saction, click on t
		Cancel Button.
Amour	nt Received	
	New Account Change Account Remo	Journe
BALANCED		
	Save Cance	1
urcedata	Record: EOF/1 Exclusive	

If the charge was successful then behind the scenes the invoice was marked as Complete, and the Date Paid and Amount Paid fields were filled out.

# 14.21.4 Batch Processing Credit Cards

Select Accounting, Receive Customer Payment, Credit Card Payments.

Pressing the Ok button will automatically process all of the credit cards and deposit the money into the credit card process account. It will enter R type transactions for posted invoices and S type transactions for un-posted invoices.

FOX K:\ Modules Too				atch proce	ssing crea	lit cards		You can add a
Check the invoices		contair	ning credit ca	unpaid invoice ard numbers.		You can select credit card belor this custom	nging to	credit card number for this customer
you wish to process	R	eceivables	s that are Cre	edit Card charga	aure			4 -1
		Invoice #	200013		Discounts	4XXX-XXXX->	XXXX-8291 💽 🕂	
N N		Inv Date	05/17/2011	Invoice Status	Complete	Tax Total	0.00	
		Cust Id	ABC001	Amount Due	2000.00	) Charge Total	2,000.00	
			ARROW ELEC	TRONICS		Approval Code		
		Invoice #	200017		Discounts	5XXX-XXXX->	XXXX-2226 🔽 🕇	
		Inv Date	05/19/2011	Invoice Status	Complete	Tax Total	180.00	
		Cust ld	BBC001	Amount Due	1990.00	) Charge Total	1,990.00	
			BBC MANUFA	CTURING COMPA	ANY .	Approval Code		
		Invoice #	200018		Discounts	5XXX-XXXX-	XXXX-5454 💌 🕇	
		Inv Date	05/19/2011	Invoice Status	Complete	Tax Total	180.00	
		Cust Id	BBC001	Amount Due	1990.00	) Charge Total	1,990.00	
			BBC MANUFA	CTURING COMPA	ANY .	Approval Code		
	×0 	Select <u>A</u> ll Select <u>N</u> one		rocess Acct 10		Print Ok	Summary Re Wi proce	sing the OK Button Il automatically ess all of the credit is and deposit the oney into the CC
		_		saction Date 5 /				cess Acct. It will
			ard Processii vour credit ca r.		a checkir select anot	t to be debited (ung account). You of her account by cli drop down arrow.	can invo	enter R type actions for posted bices and S type ransactions for bosted invoices.

If any of the charges were not successful you would see the following screens:

E FOX K:\V856 Modules Tools C	Batch processing credit cards
-	
	Invoice #       200013       Discounts         Inv Date       05/17/2011       Invoice Status       Complete         Cust Id       ABC001       Amount Due       2000.00         ARROW ELECTRONICS       Appp
<b>v</b>	BBC MANUFACTURING COMPANY Click OK to
	Select All     CC Process Acct     10200000        Select None     Transaction Date     5 /19/2011     Qk     Exit
Trancreatedcursor	Record: 1/2 Exclusive

Click OK then click on View Result for each receivable listed you want to learn more about.

E FOX K:\V856 (User: DO Modules Tools Optional Co	cessing credit cards	- D ×
	ew Result SXXX-XXXX-XXXX-5454 + Tax Total O.00 Charge Total O.00	
Credit Card Declined No Match on CW *- Credit Card Processing Details -* Local Time: 05/19/2011 02:00:13 PM Holder: Bob Badmccw Card No: 55/05/00000000000000000000000000000000	des match for international transactions	
Recordcuspayment	Read the error message. Press Control F8 to print it out a then click on the OK Button to exit out, Get the correct C Number and process the card again.	

# 14.21.5 Issuing a Refund for a Credit Card Payment

In this example an independent credit memo was created (200019) and posted by using Credit Memo Option #1. To charge the customer's card back you would perform an R type transaction against the credit memo as shown above. Alternatively, you could edit the invoice, change the amount and the amount paid to the reduced amount. Manually edit the R or S accounting transaction and change the amounts to the reduced amount. Your Bank Statement would show 2 transactions; your pc/MRP transactions would show one R or S transaction.

E FOX K:\V856 Modules Tools (		Charging ba	ick a credit memo with an R Type	
	ransactior	(New Transaction)	)	×
× o				
Transaction #	000014	Type R	Check #	
Date	05/19/2011	Entered By DOU	G Credit Card 4xxx,xxxx,xxxx,8291	
Description	REAR WHE	EL AXLE ASSY	Tox first	Process
AccountNo	ABC001		di d	Code Credit Card
Cust / Vend	ARROW EL	ECTRONICS	-   -5,000.00	
Invoice #	200019	Sale # NONE	Open your credit card proces:	sor's websiter
Related Doc#	RELATED	DOC/CONTRACT#	Debit: 3,000.00 Credit: 3,000.00	s
Task		Sub-Task	Description	<u> </u>
Customer PO#			BANK CHECKING ACCOUNT 3,000.00	
Salesman	ROBERT B	ILL SALESMAN		
Commission %	10.00		Log into Card Point's website,	
			cardpointe.com, Enter your User Name, Password, Select Reporting, Select the	
	l Sale Price Is Discount	-3,000.00 0.00	original transaction, Select Refund,	o Not
	or Line Item	0.00	Delete the full amount and type in the C	lick on
-	or Line Item	0.00	amount to be refunded. If the transaction	rocess
Total with Ta Amount F	x & Freight aid to Date	-3,000.00 0.00	Is recorded as Authorized , right click	Credit
	mount Due	-3,000.00	Conture Button and enter the amount to	
Amour	t Received	-3,000.00	be refunded.	Card
To charge the above. Alterna Manually ed	customer atively, you lit the R or	s card back you wo u could edit the invo S accounting trans	no was created (200019) and posted by using Credit buld perform an R type transaction against the credit bice, change the amount and the amount paid to the saction and change the amounts to the reduced amo s, your pcmrp transactions would show one R or S tr	memo as shown reduced amount. punt. Your Bank

# 14.21.6 Charging Back a Customer's Credit Card

For detailed, step-by-step instructions see http://www.pcmrp.com/mrp101/chargebacklogintocc.htm

Follow the slide show to refund the payment using CardPointe. Then use pc/MRP to create a credit memo, select option#2. Select Cancel when the program offers to print a check.

### 14.21.7 CardConnect Reports

To learn about running CardConnect reports, see the pc/MRP online tutorial at <u>http://www.pcmrp.com/mrp101/ccaddmarathonaddress.htm</u> or call CardConnect.

# 14.21.8 Exporting Invoices Paid By Credit Card in pc/MRP to QuickBooks

See Chapter 16.16.3.1 in this Manual.

# **15.1 Settings and Utilities**

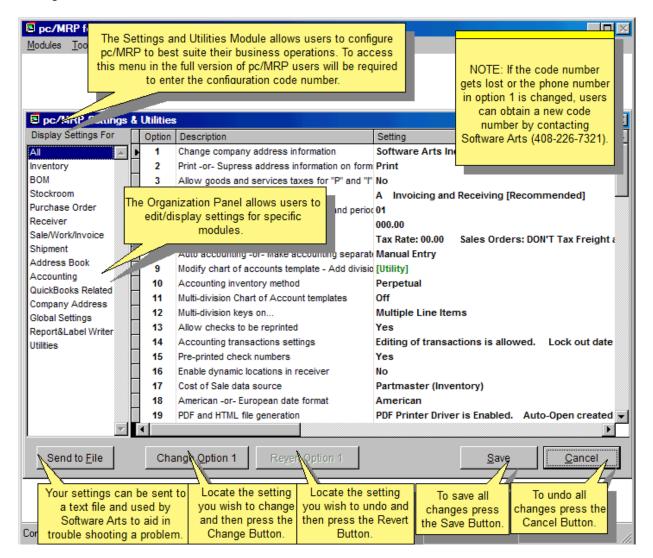
# 15.1.1 Overview

To configure pc/MRP Settings and run various Utilities, select Configuration, Settings and Utilities, and enter the Configuration Code Number supplied by Software Arts when the package was purchased.

The Settings & Utilities Module allows users to configure pc/MRP to best suit their business operations. To access this feature in the full version of pc/MRP, users will be asked to enter the company's Configuration Code Number. If the user doesn't know the configuration code number, the code number field can be left blank and the user will be given View Only access. Also, the optional Password module can be used to deny access or to grant View or Edit access to this feature on a per user basis.

Note: If the code number gets lost or the phone number in Option 1 is changed, users can obtain the code number by contacting Software Arts (408-226-7321). This number will only be released to those individuals with administrative level authority within pc/MRP.

The Settings & Utilities screen is shown below:

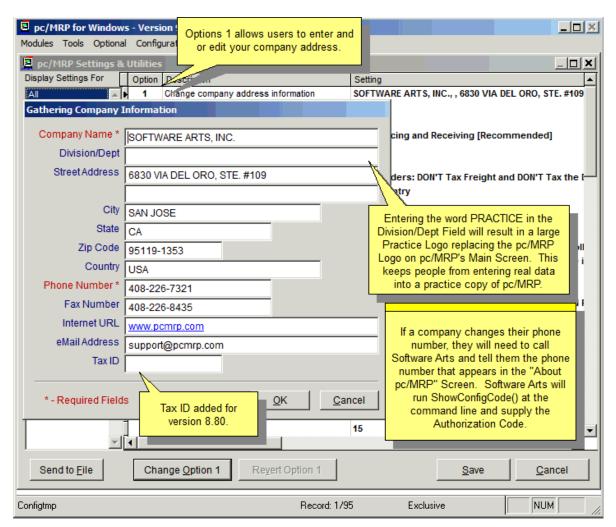


Depending on the utility/option chosen, users will be presented with a **Run Utility** or **Change Option** button. Once an option has been edited (the new values are displayed in red), users can press the **Save** button to save all changes. To undo changes to the option chosen, click the **Revert Option**. To undo all changes select **Cancel**.

# 15.1.2 List of Options

# **Options 1.- 10.**

**Option 1, Change Company Address Information** 



Allows you to change your company address. This is the address that appears in the upper left hand corner of your Invoices, Purchase Orders, etc. If you change the company phone number you must call Software Arts to obtain a new Configuration Code as the company phone number is one of the factors in determining the Configuration Code.

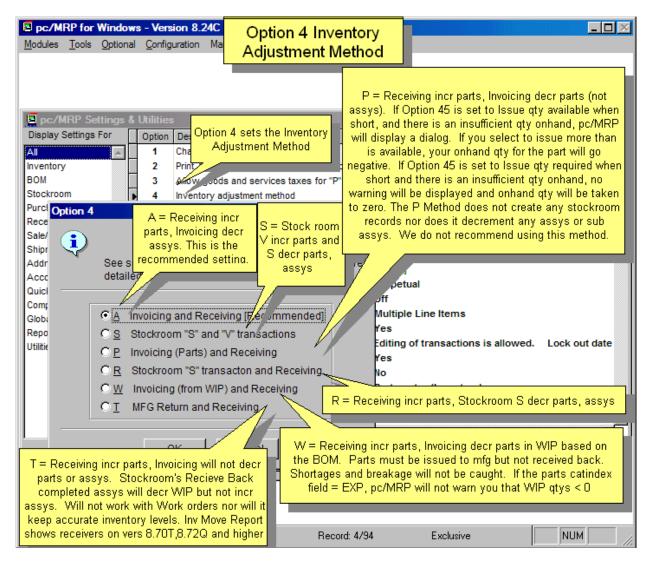
Software Arts, Inc suggests that companies create a test copy of pc/MRP for practice, testing and training purposes. To clearly distinguish between the test copy and the production copy, we suggest that you enter the word PRACTICE in the Division/Dept field of the test copy. This will result in a large red PRACTICE logo replacing the pc/MRP logo on the pc/MRP main screen, and will prevent that users confuse the two copies.

#### **Option 2, Print or Suppress Address Information on Forms**

Allows you to configure pc/MRP to print out or suppress your address on your invoice, purchasing, sales, shipper, and receiving forms. This option is provided for companies who desire to print on pre-printed forms containing their company logo and address.

### **Option 3, Allow Goods and Services Taxes**

Option 3, if set to 'Yes', will debit the sales tax liability account when you enter an I (on account purchase) or P (cash purchase) accounting transaction. pc/MRP V9.50 Pa



Allows you to configure the method pc/MRP uses to adjust the inventory. As a general rule, manufacturers, distributors and retailers should select A.

**A,** allows the invoice and receiving modules to adjust on hand quantities. This is the **default setting** for manufacturers and distributors and retailers. Entering an invoice or receiver will adjust the on hand quantities of the parts or assemblies entered. When entering an invoice for an assembly the on hand quantity of the assembly itself will be decreased. This setting allows manufacturing to build to stock and sell completed assemblies. **Note:** The Inventory Movement Report is only accurate when the Inventory Adjustment Method has been set to "A" during the time period covered.

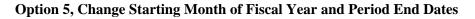
**S**, allows the stock room module to adjust the onhand quantities. Issuing parts to shipping and receiving parts from receiving will adjust the onhand quantities. <u>No stockroom transactions are created</u>.

**P**, allows the invoice and receiving to adjust on hand quantities. When entering an invoice for an assembly pc/MRP will use the BOM to reduce the on hand quantity of the parts. This option can be used by restaurants and manufacturers who do not build to stock. This option reduces the quantities of parts only and not sub-assemblies. Since this option leaves no records, the inventory movement and MRP reports will no longer be accurate. **R**, allows receiving to increment on hand quantities and the stock room's ship to shipping to decrement onhand quantities.

**W**, allows the invoice and receiving to adjust on hand quantities. When entering an invoice for an assembly pc/MRP will use the BOM to reduce the WIP quantities of the parts within the assembly. This option requires

users to issue parts to manufacturing, but not receive them back from manufacturing as completed assemblies. If you add the letters "EXP" to the catindex field for each part in the part master, pc/MRP will not stop and notify you when it reduces WIP quantities below 0. Software Arts strongly discourages using this method as breakage, shortages, etc will not be caught.

**T**, allows receiving to increment on-hand quantities and the stockroom to issue and receive from manufacturing. When the stockroom receives from manufacturing it will decrease WIP, but not increase the on-hand quantities of finished goods. Invoicing will not decrement the on-hand quantity of finished goods. This method will not work well for companies building to stock or using work orders to complete other work orders.



pc/MRP for Windows - Version 8.24C (User: doug)	
Stockroom 4 prepary adjustment method	he fiscal year. is the default g. taxes for "P" and "T" No A Invoicing and Receiving [Recommended] fiscal year and period 01
Shipr Addr       Fiscal Year Starts:       January       ▼         Acco Quick       Year       Month       End Date       ▲         Comp Globa Repo Utilitie       2007       11       11/30/2007         2008       1       01/31/2008       ■         2008       2       02/29/2008       ■         2008       3       03/31/2008       ■         2008       5       05/31/2008       ■         2008       6       06/30/2008       ■         ▲Ilow date change during month close       ■       ■	<ul> <li>pc/MRP allows you to set not only the start of your fiscal year but also the date each month ends on as shown below. When you open up this window the current month and year will be selected. This screen sets the last day of the month as the default end date unless changed by the user. Once a month has been closed, the end date of that month cannot be changed. The "Allow date change during month close" check box enables or disables a user closing a month to change the ending date of the period he is closing. The start date of any period is naturally the day after the end date of the prior period. This screen comes pre-populated with the end date of every period from 1985 to 2035. This screen can be repopulated from the command line with the command DO FORM CLOSEDATE WITH 'FILL', 1985, 2035.</li> <li>Repopulating this form should never be necessary and you would never do so without calling Software Arts first. When a month is closed all transactions whose date is less than or equal to the end date are included during the close.</li> </ul>
Closedat (c:\pcmrpw824\closedat.dbf)	Record: 279/612 Record Unlocked NUM

### **Option 6, Change Average Hourly Labor Rate**

The average hourly labor rate is used by pc/MRP to determine the labor cost of a work order/sales order when it is completed and returned from the floor. Job cost reports are available from the Stockroom Report module.

### **Option 7, Sales Tax Settings**

E FOX C:\V875 (User	: KK)				
Modules Tools Optional	Config	uration Manual Deve	oper Help		
🚊 pc/MRP Settings & U	Jtilities				
Display Settings For	Option	Description	Setting		▲
All	1	Change company addre	RAD TECH	, COHESI	VE TECHNOLOGIES, 123 MAIN STREET, , RICHLAND, CA
Inventory	2	Print -or- Supress addre	e Print		
BOM	3	Allow goods and servic	εNo		
Stockroom	4	Inventory adjustment me	A Invoic	ing and R	Receiving [Recommended]
Purchase Order	5	Change starting month of	01		
Receiver	6	Change average hourly			
Sale/Work/Invoice	7	Sales Tax settings	Sales Ord	ers: DON	'T Tax Freight and DON'T Tax the Discount Purchas
/ Option 7					
AXO				Frei	ght and discounts are
C These sett	_	ect the manner in whi	ch pc/MRP		able in some states.
c 🖓 performs S	Sales T	ax calculations.			
c				7	
F Sales Order Creat	tion De	faults	-	ptr .	ons is allowed. Lock out date is
u –	Freiah	nt is Taxable			
	-	unt is Taxable			
	DISCO	untis taxable			
				Priver	
Purchase Order C	Creatio	n Defaults		Metho	For more information about Taxes see 14.1.12 Tax
	Freiah	nt is Taxable			Code Entity" and "4.2.8 Enter a New Address,
	-	unt is Taxable			Step 5, Enter Company Contact and Tax
	DISCO	untis faxable			Information" in the Manual.
	<u>0</u> K	<u>Cancel</u>			•
Send to <u>F</u> ile	Cha	ange Option 7	evert Optio	n 7	Note: In earlier versions, Option 7 was used to set
					a Default Sales Tax Rate. In current versions users
					can enter an infinite number of Sales Tax Entities
					and their associated Tax Rates.
Configtmp			Be	ecord: 7/9	

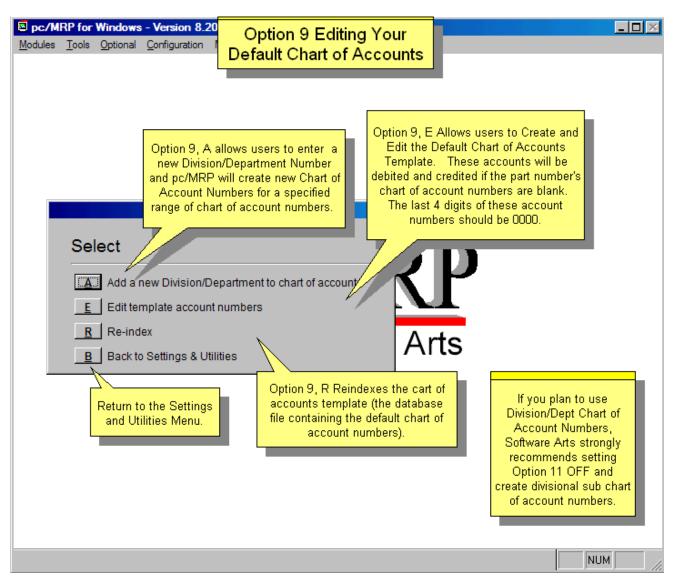
### **Option 8, Select Automatic Accounting or Manual Entry**

Will set Auto Accounting on or off. If auto accounting is set on, entering an invoice or receiver will automatically create the corresponding general ledger transactions. The newly entered GL transaction will be displayed for edit before it is saved.

If auto accounting is set to off, Accounting must enter the general ledger transactions by pulling up the receiver or invoice. pc/MRP will then automatically debit and credit the proper accounts.

Software Arts <u>recommends setting auto accounting OFF</u> so that invoice and receiver mistakes are not automatically entered into the general ledger.

Users can set auto-accounting for invoices and/or receivers.



Option 9 allows you to:

Edit the chart of accounts template:

When pc/MRP needs to automatically display a chart of account number(s) for an accounting transaction, it uses the account template to determine the correct account number to bring up. As such, if you change one of the chart of account number that pc/MRP brings up automatically, you use must use Option 9 to change the default account number in the account template dbf file. Here is where you also set the default chart of account number when a credit card is charged.

Add chart of account numbers for a division and or department:

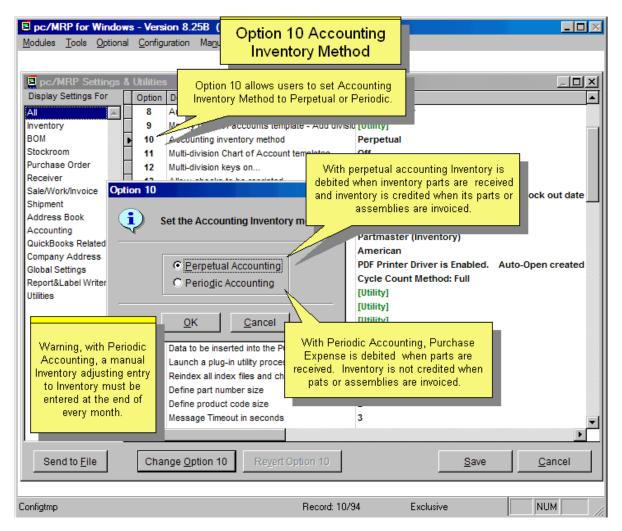
Add new div/dept chart of account numbers to the chart of accounts for all chart of account numbers greater than or equal to a specified chart of account number. This allows you to automatically create revenue and expense chart of account numbers for a specified division and or department.

Re-index the account template dbf file:

This option allows you to re-index the account template dbf file.

pc/MRP will default to these	Default Chart o	f Accounts	Select your Default Chart of Account
receiver or invoice do not	Template Description	Account Number	
specify specific chart of accts	AcctsRec	11100000	
1	BusIncome	30100000	
	CostOfGoodsSold	40150000	
	CostOfSalesLabor	50100000	
If the part numbers that you are	CreditCardProcessing	10200000	
invoicing have no set income acct, this income acct will be credited	FicaLiability	22110000	
when the invoice is posted. pc/MRP	FreightExpense	41400000	
has its own QuickBooks Default Chart of Accts Table	FreightIncome	30150000	i
Chart of Accts Table	FwtLiability	22100000	
1	GrossWageExpense	50100000	When receiving a customer's invoice payment and the customer is paying by
	Inventory	12100000	credit card, you can set pc/MRP to debit
	peratingExpense	63500000	this account. It could be your bank account or a holding account until your
*This acct is credited when an	overheadExpense	50150000	credit card processing company transfers
invoice is posted and inside labor	PrimaryChkAct	10200000	the money to your bank account. This is
part numbers are included in the	PurchaseDiscount	41900000	not your company's credit card account used to pay your vendors (Versions 8.56A
entering a summary payroll entry.	Purchases	41100000	or Higher)
* If you have inside labor part	RoundingVariances	29200000	k u
numbers in your BOMs, it	SaleDiscount	30850000	i NI
might be better to use a	SalesTaxLiability	21100000	
different wage expense	SdiLiability	22130000	
summary payroll entries.	SsecMediPayrollExpense	51100000	Rounding Variances, 29200000, QN,
		22140000	Credit, was added to versions 8.80A and
If Option 10 is set to Perpetual, receive expense/asset acct, Default Inventory . If Option 10 is set to Perpetual or Period with no expense/acct, Default Operatin If Option 10 is set to Periodic I, receive a expense/acct, Default Purchase Acct v	Acct will be debited. lic, receive non inventory part g Exp will be debited. an inventory part with no	Cancel	higher. pc/MRP will automatically Debit this account for a +/- amount if the debits # credits due to rounding errors for the accounts entered automatically. Accounts entered manually whose debits do not match credits will give a warning but not trigger Rounding Variances.

# **Option 10, Accounting Inventory Method**



Select Option 10 to run either a perpetual inventory (usually for corporations) or periodic inventory (usually for small business owners & partnerships) accounting system. With a **perpetual** inventory method, the dollar amount of the inventory is automatically adjusted with every transaction (credit BI & Inventory, debit AR & COGS). A **periodic** inventory method requires adjustments to the inventory dollar amount at the end of each month (credit BI, debit AR). In both cases, the costs must be correct and up to date in inventory for each part and assembly.

### **Options 11.- 20.**

### **Option 11, Multi Division Chart of Account Template**

Select Option 11 if you wish to key the accounting templates on division or product code. Leave this option off unless you have a multi-division company. If you set this option to division or product code, each accounting transaction will be keyed to look for the division or the first four characters (product code) of the part number field in the invoice or receiver being processed.

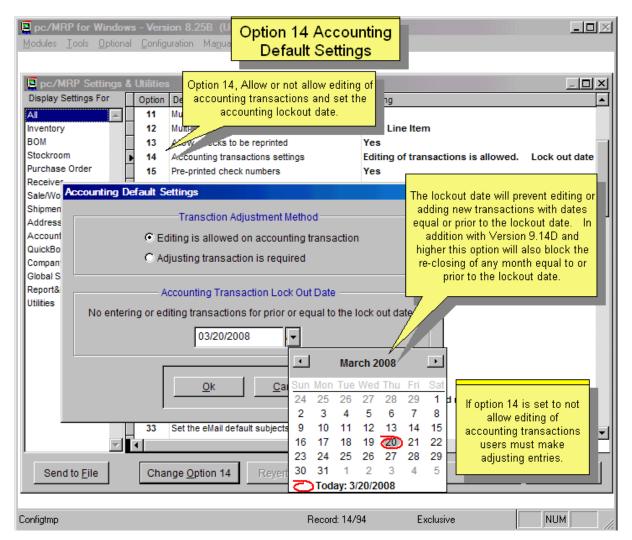
### **Option 12, Un-assigned**

### **Option 13, Printing Checks**

Allows or disallows reprinting checks that have been printed.

Allows or suppresses printing the check number on the check (for checks that are pre-printed with the check #.) Allows the W-type Accounting Transaction to print out a standard check (not a payroll check).

# **Option 14, Accounting Transactions Settings**



Option 14 can either allow the editing of accounting transactions, or require users to enter adjusting transactions instead. No editing or entering of new transactions can be made on or prior to the lockout date.

### **Option 15, Un-assigned.**

#### **Option 16, Enable dynamic locations in receiver.**

If set to Yes, changing the location in the receiver data entry screen will change the location in the inventory data entry screen. If the onhand qty in that area = 0, the location in the receiver data entry screen will be blank. Entering a new location will also be inserted into the inventory data entry screen.

If set to No, the location in the receiver data entry screen will be blank. Entering a new location will NOT be inserted into the inventory data entry screen.

Also see Option 44.

### **Option 17, Un-assigned.**

### **Option 18, American or European Date Format**

Selection 18 allows pc/MRP to work with American (MM,DD,YR) or European (DD,MM,YR) dates.

# **Option 19, PDF and HTML File Generation**

pc/MRP for Windows - Version 8.25B (User: DOUG)							
<u>M</u> odules <u>T</u> ools <u>O</u> ptional	<u>C</u> onfiguration	Manual Developer H	lelp				
Modules Tools Optional	Coption         Deg           17         Cogs           18         Arren           19         PDF al           20         Cycle           21         PDF al           22         23           24         25           26         27           28         29           30         31           32         33	Option 19 allows an administrator to enable or disable PDF and HTML form generation	e Setti Partr prmat Ame PDF Cyc	master (Inventory) erican Printer Driver is Enable Enable or Disable P form generation. Allow use orkstation Allow use			
		ML Form Generation HTML Printer Driver ble or Disable PDF orm generation.	Auto-open create HTML Printer Driver Ena <u>b</u> led Disable this wo Disable all <u>w</u> or	orkstation kstations with the H	e to change access right have any difficulties TML driven forms and		
Whenever pc/MRP is started, pc/MRP will check to see if the pc/MRP Internal Print Driver (4.5) is installed on the local PC. If the print driver is not installed and if either print driver is enabled, pc/MRP will attempt install the print driver.		<u>QK</u> a voucher mormation play the file structure fr on 19 Reyert O	or a selected DE [Utili	Code E	hange the settings to Based Generation.		

Option 19 allows an administrator to "Enable", "Disable this workstation" or "Disable all workstations" from generating PDF and HTML files. This function basically creates or deletes a flag file named c:\HTMBlock.flg. A drop down HTML Form Generation List Box allows users to select either HTML Printer Driver or Code Based HTML. This option allows an administrator to set form creation through the HTML print driver or code based generated HTML files. If users have any difficulties with the HTML driven forms and reports, change the settings to Code Based Generation. The "Auto-open created PDF files" check box allows users to automatically open the PDF files they created.

# **Option 20, Cycle Count Options**

FOX -- C:\V896 (User: DOUG) Configuration Option 20 If you change the Cycle Count Modules Tools Optional Configuration Ma Cycle Count Settings Settings in Option 20, you must pc/MRP Settings & Utilities run Inventory, Physical Inventory, **Display Settings For** Option Description Setting Cycle Count, and "Automatically PDF and HTML file generation PDF Printer D fill classes for all parts" to re-set 19 All part classes. The Options to Inventory 20 Cycle Count Options Cvcle Count define Frequency in Days and BOM Option 20 Costs were added to versions Stockroom x ol Cycle Count Options 8.96C and higher. Purchase O Receiver Cycle Count Frequency in Days Cycle Count Method Differential or Full Cycle Default Values are shown 20 ÷ Class A Oifferential Counts. See Chapter 20 Days, 60 Days, 120 O Full 60 ÷ 6.2.2 for the pros and Class B Days, \$5.00, \$200.00, cons of each method. and \$0.50 Class C 120 ÷ nge access Global Settir User can set Count Report&Lab Frequencies and Costs Utilities C Base On the Default Values 💡 EMO : 5 INC Define by User NOT hidder Class A: Average Unit Cost >= 5.000000 With Differential Cycle Counts you record the OR difference between the 200.000000 Average Unit Cost multiply by the Quantity Used Per Week > actual count and the qty pc/MRP will create Class B: adjusting stock room 0 Average Unit Cost >= 0.500000 transactions and set the The optional Sales Analysis Module onhand qtys. Class C: can study the past and automatically fill 0.500000 Average Unit Cost < the weekly usage for every part number. With Full Cycle Counts pc/MRP will update the last physical inventory date and gty and set the Ok Cancel onhand qtys Record: 17/95 Exclusive

Option 20 holds the Cycle Count settings. See Chapter 6.2 for details.

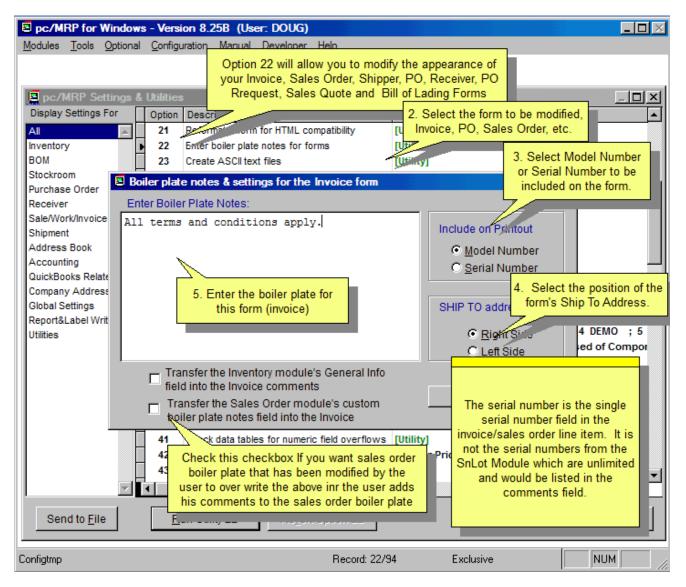
If you changed the class definitions, you must run Inventory, Physical Inventory, Cycle Count, and "Automatically fill classes for all parts" to reset part classes.

### **Options 21.- 30.**

### **Option 21, Reformat a Form for HTML Compatibility**

This utility can be used to alter the graphical layout of a report, form, or label to be better suited for use with HTML file generation. Backup copies of the files will be saved to the OldForms sub-folder.





Option 22 will allow you to modify the following items on your Invoice, Purchase, Receiver, Sales Order, Shipper, Purchase Request(internal), Request for Quote(external), Sales Quote, Bill of Lading and Commercial Invoice forms: Add, delete, or modify boilerplate (notes) for each form; maximum of 9 rows of 46 characters each. Suppress or print out the model number on each form. Import the inventory memo field as part of the line item's description. Place the ship to and bill to addresses on the right or left side of the form for sales orders, invoices, and sales quote forms. Include ship-to address on purchase orders (1<sup>st</sup> line item needs ship-to address via the option button). For invoices you could enter your company's remit to address here.

If "Transfer the Sales Order module's custom boiler plate note field into the Invoice" is checked, pc/MRP will transfer the sales order boiler plate to the invoice provided the sales order boiler plate for that sales order was modified by the user and the Invoice boiler plate does <u>not</u> have any text.

# **Option 23, Create ASCII Text Files**

Will create an ASCII text file copy of any of pc/MRP's database files. The original database files will not be changed. pc/MRP will create either an Excel file (.XLS), a dBaseIII or Visual FoxPro file (.DBF), or a comma delimited ASCII text file (.TXT). Users can select which fields they want to include. Note: The .TXT file will have a set of quote marks ("") around every value. See Section 15.11.1 about how to prepare a file for being imported into pc/MRP.

All fields can be exported, as long as the computer that runs pc/MRP has Excel installed. (If pc/MRP is run on a terminal server, Excel has to be installed on the terminal server.) If Excel is not available on the computer, pc/MRP does not offer to export the memo type fields (like the general info in inventory, the reference designators in the BOM table, the tracking number and comments in the invoice table, etc.).

**Note:** Sending memo fields into Excel significantly slows down the process. Do not include memo type fields, unless you need them. pc/MRP defaults to not include memo fields.

# **Option 24, Report Writer (Modify Report/Label/Form)**

Using this Option, users can create and modify custom reports, forms, and labels. See pc/MRP Custom Report and Label Making, Section 15.4 of this Manual for detailed instructions on using the report writer.

### Option 25, Data to Be Inserted Into the PO's "Entered By" Field

NUTA	<b>,¥905 (User: DOUG)</b> ools Optional Configuration Ma	Configuration Option 25 PO Settings			
pc/MRP Settings & Utilities					
Display Set		Setting	X		
All Inventory BOM Stockroom	23 Create ASC 24 Report Writ	plate notes for forms [Utility] Cli text files [Utility] er (Modify Report/Label/Form) [Utility] nserted into the PO's "Entered By" fi Manually enter	ered: User login Duplicated: Buver		
Purchas Receiver Sale/Wo Shipmen Address	Detion 25	ED BY field on POs with automatically be po	lly creates a By Field will		
Account QuickBo Compan Global S Report&I Utilities	Duplicated:	User Login name Buyer User Login name Buyer User Login name Buyer Original user If the user automatically be p automatically be p	tes a PO, the Field will opulated from: tically creates By Field will		
	G	User Login name Buyer Jow editing Jow editing	List Options 2,3,and 4 require te are Version 9.05B and higher. The Aver radio buttons are set to the		
Send t	OK So File XO Change Option	25 Reyert Option 25	default selections, duplicating pc/MRP original behavior prior to version 9.05B. Version 9.05B and higher stores the settings in EnterBy.mem. Versions prior to 9.05B stored the single setting in MUserLog.flg.		

### **Option 26, Launch a Plug-in Utility Process.**

Allows pc/MRP to load and launch utility plug-ins.

# Option 27, Re-index All Index Files and Check for Corruption

Re-indexes all of pc/MRP's database files. Remember to set the Admin Lockout and wait for all to exit pc/MRP. **Note:** If during the course of re-indexing, pc/MRP had to repair a table you will get an error message stating the "Configuration Table is no longer available". If you made any changes in the Configuration Module prior to running Option 27, your changes were not saved. Press the OK Button. When the Re-index is complete you will need to make your changes again.

When users delete a file link (brake the link) the record still stays in the file links table, marked for deletion. Option 27 permanently removes these marked records, avoiding that the file grows unnecessary big.

# **Option 28, Define Part Number Size**

You can choose the length of the part number from 6 to 31 characters, including dashes, product code and suffix. Also see Options 29 & 48. If you set the maximum length to 15 characters or less, when entering a new part, pc/MRP will suggest the next highest number with leading zeros. If you set the maximum length to 16 characters or more, pc/MPR will suggest the next highest number without leading zeros.

# **Option 29, Define Product Code Size**

Sets the size of the product code part of the part number from 1 to 6 characters. The product code consists of the first x characters of the part number. It can be used to classify part numbers into a product code. For example, the part number of all cables could start with CAxxxxx. The product code would be CA (size 2) and consist of the first two characters of the part number. pc/MRP will be able to give you the next available part number for a cable provided the remainder of the part number is in numeric form. Also see Options 28 & 48.

# **Option 30, Un-assigned.**

# **Options 31.- 40.**

# **Option 31, Change Password (if you do not have the Optional Password Module)**

If you do not have pc/MRP's Optional Password Module activated, all users share the same password. Option 31 allows this password to be changed.

# **Option 32, Check Inventory for Invalid Vendors**

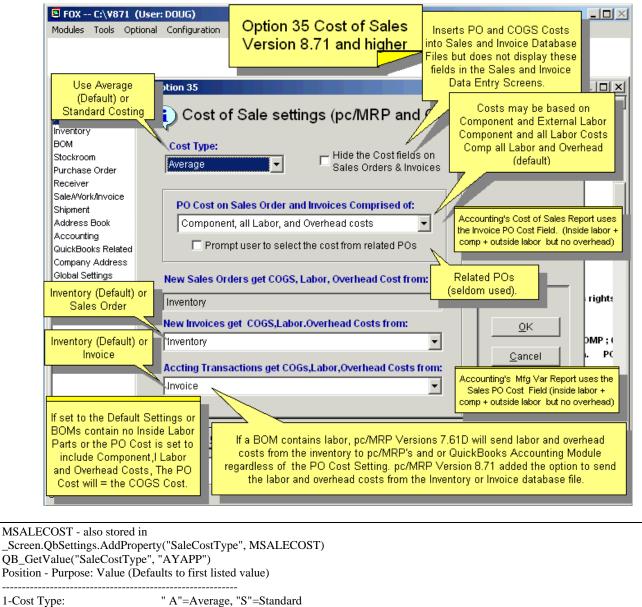
Checks the vendor ID codes listed for every part number in inventory. It will display or print a "Vendor ID Error Log" report if it finds any vendors in the inventory records where the ID cannot be found in the Address Book. You should then edit the inventory files (and insert valid vendors).

# **Option 33, Set the Email Default Subjects and Messages**

This option allows users to set the default subject and message for each kind of pc/MRP e-mail.

# **Option 34, Change Names of Alternate Storage Areas in Inventory**

Users can customize the names of each storage area, except of "Stores".



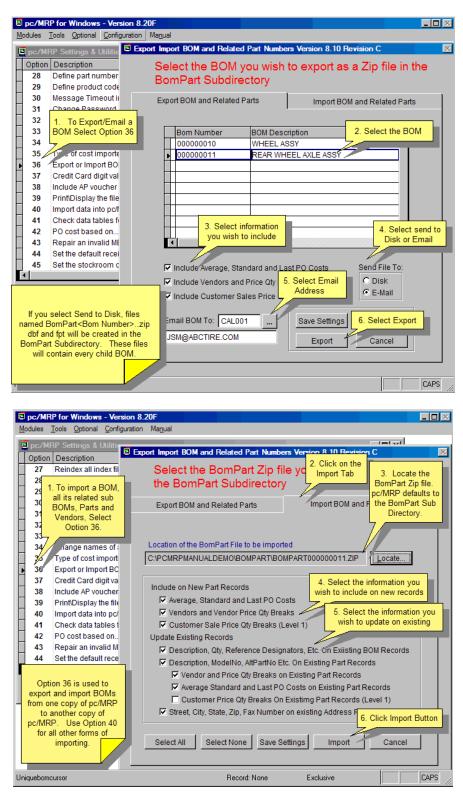
1-Cost Type:	" A"=Average, "S"=Standard
2-Update Costs when invoicing	: "Y"=Yes, "N"=No
3-PO cost comprised of	A'' = All costs
	"P" = Component and External Labor costs
	"L" = Component and all Labor costs
4 - Hide cost/Prompt for Rel PC	O :"P" = Show costs without prompt
[formerly CONFIGDM-45]	"R" = Show costs with prompt
	"O" = Hide costs
5 - Accounting gets costs from:	"P"=Inventory, "I"=Invoice

**Note:** Option 35 added the option to get COGS, Labor and Overhead costs from the Invoice database file instead. This option to transfer costs to accounting from the date the invoice was created instead the date the transaction was created was added for a customer who did not necessarily post their accounting transactions when invoices were created.

# Option 36, Export or Import BOMs to another Copy of pc/MRP

Option 36 will allow you to export (via email or as file attachments) a parent BOM, and all its related sub-BOMs, parts and vendor addresses to another company using pc/MRP.

See slideshow here: http://www.pcmrp.com/mrp101/importoption36settingsandutilities.htm



# **Option 37, Credit Card Digit Validation & Formatting**

Enables validation of credit card number and (optionally) reformats the credit card # by inserting hyphens at the appropriate places. Number validation must be enabled for formatting to work. pc/MRP V9.50 Page 44

# **Option 38, Include AP Voucher Information on Receiver Reports**

Allows AP vouchers (rent, utilities, etc.) to be included or not included in the receiver reports.

# **Option 39, Print/Display the file structure for a selected DBF table**

Allows the user to print out the file structure for any of pc/MRP's data base files. This is useful when creating/modifying custom reports/forms/labels.

# **Option 40, Import Data into pc/MRP**

A utility for taking data from a non-pc/MRP data source and inserting the data into one of pc/MRP's database files. See Chapter 15.11, "Importing Data Files," for details.

# **Options 41.- 50.**

# **Option 41, Check Data Tables for Numeric Field Overflows**

If you see "\*\*\*\*\*\*\*" instead of number values on any report, this indicates numeric overflow. Option 41 checks any or all of pc/MRP's data base files for numeric overflows. Check the "Zero all overflows" check box, if you would like pc/MRP to zero out all of the overflows it encounters.

# **Option 42, Purchase Order defaults**

Sec.	for Windows - Version 9.12D ools Optional Configuration Manua	ption 42 Purchase Order Defaults	
Display S All Inventor BOM Stockroo Purchas Receive Sale/Wo	y 37 Credit Ca to be a 38 Include A from 1 39 Print'Disp om 40 Import da e Order 41 Check data	gry based on Y recor	PO
Ac Ac Qu Cc Gli Re Uti	Purchase Order Get purchase costs from	Defaults	Version 8.96 and above Defaults to: Standard If Std = 0: OrdMult If both = 0: 1       ED. Cost         rea6, Area7
-	Initial purchase quantity If purchase price > standard cost If Consider discount	Standard / Order Multiple     Always 1     Default Setting     Do Nothing     Block	
Confiatmp	j♥ Consider aiscount 0k	<u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u> <u>Cancel</u>	price > std cost, block purchase orders. Is a warning if user selects Override and assword is blank. Factors in discounts, ncies, PO Ratios and buffers. Versions 9.12D and higher.

Allows the user to set PO Cost to be automatically inserted into the PO from the "Vendor Price List", Last PO Cost, or Average PO Cost. Vendor Price List is the recommended choice. If Vendor Price List is selected and the vendor price list is empty, the Standard Cost will be used.

The order quantity on a new PO will default to 1. Option 42 can be set so that the order quantity on a new PO will default to the Standard Order Qty, if not set then to Order Multiple, if that is not set either then to 1.

# **Option 43, Un-assigned**

# **Option 44, Set the Default Receiving Area**

Sets the Inventory storage area that the receiving module defaults to when receiving. Also see Option 16.

# **Option 45, Set the Stockroom Defaults**

- Option 45 sets the stockroom to record standard or average costs when issuing parts to manufacturing. Accounting should set the default cost.
- It also allows you to set the default action Issue Available Qty or Required Qty when issuing a component that is short. The Available Qty is the recommended setting, as this way pc/MRP will keep track of shortages. **Warning:** Issuing Required Quantities would never create a shortage in WIP and could drive onhand quantities negative.
- When receiving back from MFG, pc/MRP will display a warning if there was a shortage. Setting "Yes" will allow users receive back the required qty anyway. "No" will not allow users to receive back any more than issues would allow. Also see warning above.

# **Option 46, Allow the Auto Receive Option**

Turn on/off the ability to automatically receive the remaining items on a purchase order.

# **Option 47, Set the Inventory Defaults**

Turn on/off the ability to mark-up sale prices and roll-up assembly costs from the inventory menu.

# **Option 48, Set the Part Number Suffix Size and Default Content**

Allows users to set a suffix size for the part number. Allowable sizes are dependent upon sizes used in Options 28 & 29, partnumber and product code. Dashes are considered in the count; "-01" is three characters.

# **Option 49, Set the Part Number Incrementation Method**

If users have part number suffixes, Option 49 allows them to set the part number incrementation method.

30 Create/Export Federal Expre	SS address ASCII THE   UTIHTY					
Part Incrementation Method		×				
pc/MRP can increment your Part	Number in one of two ways.					
In the first, most common method, each Product Code has its own series of consecutive numbers. In the second method, the root of the Part Number remains sequential regardless of Product Codes. The examples below are of four parts entered in each method.						
Prod Code Suffix	Prod Code Suffix	Method to Use:				
Root	Root	• Eirst Method				
First HD000001-00	Second HD000001-00	C Second Method				
Method LS000001-00	Method LS000002-00					
LS000002-00	LS000003-00					
BG000001-00	BG000004-00	<u>Ok</u> <u>C</u> ancel				
57 FOUNE CONEDLOI VADOUS IN	SLOOXES TUININ					

If you would like to have dashes in the part number, they should be included in the Product Code and/or the Suffix Code. Auto numbering will look at all characters in the Product Code and Suffix to determine the

Suffix Code. Auto numbering will look at all characters in the Product Code and Suffix to determine the uniqueness of the number to increment. For example, if you want your part numbers to have the form 1-200-

0001-3, where the 0001 is the root to automatically update for the next part, you would set the Product code to 6 characters (e.g. "1-200-") and the Suffix to 2 characters ("-3"). When selecting new parts, you will want to choose the option of "Next Available Partnumber for a Part Code/Suffix Code". When entering the Part Code, you will need to input the dashes or else the system will leave the extra characters as blanks and recognize the part code as different from the one with dashes. For example, entering the part code "1-200" will generate a new number: 1-200 0000-3 (assuming "-3" was set as the default Suffix Code). This example also assumed both a Part Code and Suffix Code existed. In your application, you may use both, one, or neither of the codes.

# **Option 50, Set the Average Cost Calculation to Include Area(s):**

Uncheck any inventory area that should not be included in the cost averaging formula when receiving a part.

# **Options 51.- 60.**

# Option 51, Allow a BOM Part or Item Number to be Included in a BOM Multiple Times; BomStatus

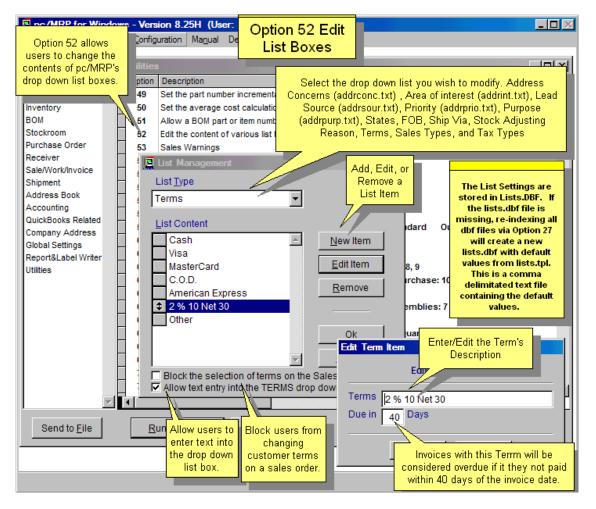
Option 51 allows users to add the same part number and/or item number to the same BOM multiple times. Users can configure the bomstatus of a new BOM that is entered as a new BOM, or created by duplicated an existing BOM.

pc/MRP for Windows - Version Modules Tools Optional Configured Modules Tools Optional Configured		Option BOM Set				_ 🗆 🗵
Configuration Option	Allov	m number to be i v same part num ple times in a BOI		Allow san	Multiple iter ne part number nes in a BOM.	
New BOM defaults to	Allow a part to be in Allow an Item Numb C Preliminary C Released E Blank C Same status as r C Keep original sta	ber to be includ	Vith pc/MRP Versions BOM's Status will be blo duplcated BOM's Statu With Versions 8.83 ar pc/MRP to use the sam	8.82F and lo ank. With Ve s will be the nd higher Op	ersions 8.82G : same as the o tion 51 allows a new BOM or	duplicated and the new riginal BOM. syou to set
		<u>Cancel</u>			ibled	
Allow same part number multiple times in a BOM. MulBmPrt.Mem	ge Option 51 R If the Password Mod Editing released BOMs delete rights in the BOM s checked, the Blank Op not be available.	requires I module ption will	InBornStatusNew and omStatusDupl are stored omStatus.Mem used by prBom.prg and DupBom.p			<u>Cancel</u>

# **Option 52, Edit the Content of Various List Boxes**

Option 52 allows users to change the contents of pc/MRP's drop down list boxes. Address Concerns (addrconc.txt), Area of interest (addrint.txt), Lead Source (addrsour.txt), Priority (addrprio.txt), Purpose (addrpurp.txt), States, FOB, Ship Via, Stock Adjusting Reason, Terms, Sales Types, and Tax Types.

Taking a look at the TERMS list in more detail:



- If you are using pc/MRP's QuickBooks interface module, the terms list should match QuickBooks Terms in spelling.
- When adding or editing a term, if you put in the number of days in the "Due in Days" field, the invoice will evaluate the Due Date.
- If the address book's TERMS field is not blank, it is used as the default in the Sales Order & Purchase Order data entry screens.
- Checking the "Block the selection of terms..." checkbox will not allow a selection from the dropdown list box once you are on the Sales Order screen.
- Checking the "Allow text entry into..." checkbox, lets one highlight the default TERMS and change it to whatever they wish (20 character max). This works even if you do not allow a dropdown selection.

**Note:** Some list types offer check boxes for additional control, some don't. E.g. you can allow your users to enter terms on the fly. But a new address type can only be added using Option 52.

**Note:** When editing the Ship Via list, the UPS or FedEx words under Carrier, as these are keywords required when integrating with UPS and FedEx.

**Note:** If the **LISTS.DBF** file is missing, re-indexing all dbf files via Option 27 will create a new lists.dbf with default values from lists.tpl. This is a comma delimitated text file containing the default values. pc/MRP V9.50

Modules	C:\V896 (User: DO ; Tools Optional Cor pc/MRP Settings & U	nfiguration Ma	Option 53 Sa 3 sets Sales Order e warning message	and	nings		Settings are rnings.mem. nishValidatio	See
and the second sec		Option			Setting			
Al Inv BC St Pu	· · ·	485one p49Set the p50Set the a51Allow a52Edit the c	part number suffix size part number incrementa average cost calculation BOM part or item numbe content of various list b uote Warnings	tion method n to include er to be inclu <sub>f</sub>	Warning will woices + oper sales order e ound in custo	be displayed i n sales orders xceeds the cre mer's credit lin 's address rec	+ current dit limit nit in the	: Blo
5	Option 53							
у Х С С С С С Г С С	<ul> <li>✓ Warn if open in</li> <li>✓ Save and hold</li> <li>✓ Warn if the cust</li> </ul>	order / quote p voice or averag sales orders w tomer PO# is u	es / Quote Warning S outs customer over c ge days to pay excee vithout entering an ov used in other sales o 's quantity if the SO/V	redit limit ds terms + rerride passw rders for the <mark>s</mark>	same customé	Number for t	RP will war te custom he same c 'R' stockr	n if there er PO ustomer.
-	Override Pass		aht cost(incomina) into	Ok	or	5G and above. work order that or invoiced is a	has been	issued
	Send to <u>F</u> ile	Change <u>O</u> pti	ion 53 Revert O	ption 53		<u>S</u> ave	<u>C</u> anc	el
Configtm	p		F	ecord: 48/95	Exclu	isive		

Option 53 can be set to warn if a new sales order plus any existing open invoices will exceed the customer's credit limit, etc. This option creates a file called **SALESWARNINGS.MEM**.

You can set Option 53 to block users from changing the quantity of a SO/WO that is on the manufacturing floor, and from changing the quantity of an SO that has been invoiced. The other choice is to warn users, but allow them to edit the quantity if they choose to do so. Warning is default. Deleting such SO/WO is blocked, regardless of the setting of Option 53.

# **Option 54, Update Alternate Part Numbers and or Descriptions on all BOMs**

Option 54 allows users to update the alternate part numbers and/or BOM Descriptions in the BOM file with the alternate part numbers and/or part descriptions in inventory.

Both the Inventory and BOM Modules contain alternate part number fields. They can be synchronized or independent of each other. The reason for this is that HP may tell you they do not want you to use National Semi Parts in products they purchase from you. Other companies might not be as picky. If you have a picky customer the BOMs must carry their own unique alternate part numbers.

# **Option 55, Put Serial Numbers into the Invoice Comment Field.**

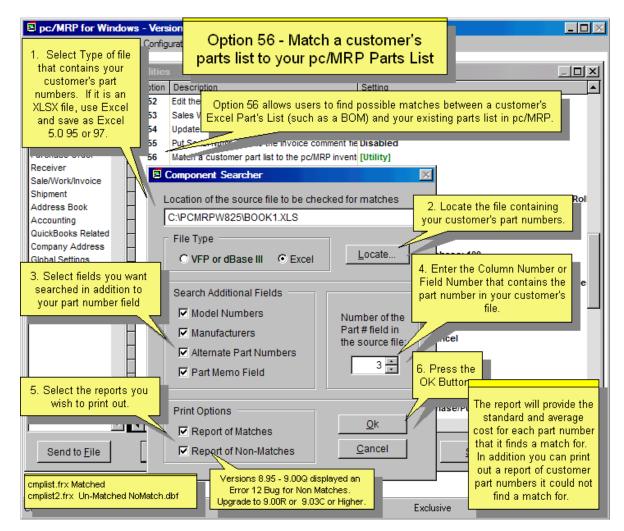
This Option will only be available if the optional Serial/Lot Number Module is activated.

Option 55 can be set to automatically insert serial numbers and sub component serial numbers into the invoice line item comments field. pc/MRP's Optional Serial Lot Number Module must be activated for this option to work. If you wish to automatically insert serial numbers for sub-components into the invoice line item comments, you must Issue sales orders for the top assemblies and not create any work orders for sub-assemblies. Then all items regardless of the BOM level will be issued to that sales order, thus their serial numbers will be listed on the invoice.

VFP - C:\V875 (User: DOU Modules Tools Optional Cor	uration Option 55 - SnLot Numbers Inserted into Invoices	
pc/MRP Settings & UE Display Settings For All Inventory BOM Stockroom Purchase Order Receiver Sale/Work/Invoice Shipment Address Book Accounting QuickBooks Related Company Address Global Settings Report&Label Writer Utilities	ies       Image: Setting         on Description       Setting         Some set to automatically insert serial numbers and sub component serial numbers into the invoice line item comments field.       Image: Setting onfigured for Suffixes Wethod (Area2, Area3, Area7) be parts: Allowed Multiple items: Blo (J)         Setting       Warn: over cr         Put Serial Numbers into the invoice comment fie Dynamically for the alternate part numbers and or BOM des [Utility]       Insert the SnLot #s permanently into the comment swhen the invoice is created. Good for historical record.         Setial Numbers into Invoice comments       Image: Setial Numbers into Invoice comments in the record         Off       Permanently insert into the comment for display/print         Off       Permanently insert into the comment for display/print         Select the type of Serial Numbers to include       100	J
pc/MRP's Optional Serial Lot Number Module must be activated for this option to work.	Invoice item only       Insert the SnLot #s         Invoice item and sub-components       Insert the SnLot #s         Ok       Cancel         Invoice item and sub-components       Insert the SnLot #s         Ok       Cancel         Invoice item and sub-components       Insert the SnLot #s         Ok       Cancel         If you wish to automatically insert serial numbers for sub-components into the invoice line item comments, you must issue sales orders for the top assemblies and not create any work orders for sub-assemblies.         Then all items regardless of the BOM level will be issued to that sales order.	

# Option 56, Match a Customer Parts List to the pc/MRP Inventory List

Option 56 allows users to find possible matches between a customer's Excel Part's List (such as a BOM) and your existing parts list in pc/MRP. It will produce a report containing each part on the customer list and the pc/MRP part number and field where a match was detected. The report will provide the standard and average cost for each part number that it finds a match for. In addition you can print out a report for customer part numbers it could not find a match. (see 15.4.2)



# **Option 57, Allow Shipper Generation Based on Sales Orders**

Option 57 can be set to allow or not allow the creation of a shipper from a sales order.

# **Option 58, Modify the Part Description Templates**

Option 58 allows users to create description templates that can be used when entering part number descriptions. This helps create standard uniform descriptions for part numbers. To use the templates, click on the ... button next to the Description field, when entering a new part.

# **Option 59, Set the Cost Roll-up Defaults**

Option 59 allows users to set the cost roll up defaults to: Standard Cost, Average Cost, or Last PO Cost Roll up phantom BOMs (assemblies classified as inventory parts in the inventory module) Send the output to display, printer or neither. Factor in Attrition or not. If Factor in Attrition is checked, cost roll ups will factor in attrition (parts only) rounding up to the nearest whole number. If Option 61 is set to allow Costed Exploded BOM to update costs, this Option (59), will control whether Attrition is factored into the Costed Exploded BOM or not. This setting allows Accounting to control costing. Version **9.13A** and higher.

# **Option 60, Set the Labor Overhead Mark-up Percentage**

Option 60 allows users to set the labor overhead percentage. This overhead percentage would be used if labor and overhead were to be included when running a cost roll up. For example, if you have 1-hour of inside labor in a BOM at \$10.00/hr, and the labor Overhead Percentage equals 10%, total labor cost in the BOM would equal \$10.00+ (\$10.00\*10/100)=\$11.00. Please note that the 'Overhead %' calculated value is also stored with the labor cost fields in the database.

# **Options 61.-70.**

# Option 61, Automatic Updating of an Assembly's Cost in Inventory

Option 61 allows users to set the ability of pc/MRP to update inventory costs of an assembly whenever an exploded BOM is displayed or printed.

If you check the Receiving Assemblies checkbox and not the Weighted Cost Average checkbox, pc/MRP will perform a Cost-Roll-Up based on Option 45, Average or Standard Cost, whenever you receive back completed assemblies from manufacturing. If Option 45 is set to Average Cost and you check both checkboxes, pc/MRP will perform a weighted average based on what was actually issued to the sales or work order being received back from manufacturing.

pc/MRP for Windows - Version 8.70F	Option 61		_O×
Modules Tools Optional Configuration Manual	ers into the invoice comm er nart list to the pc/MRP on sales sembly's lates pc/ d BOM is or a on 59 will o percent Cos factored in bibly's cos	checked, but the 3rd check-box i /MPR will do a cost roll up base average costs (Option 45) and ir st into the stockroom's receive b cord.	a cost roll up, the assy from eceive back s not checked, d on standard sert the new
Utili	ifacturing via an 'R' stock tr		
weighted average cost rol It will insert the new weigh Option 45 is not set to av cost the stockroom's rec Outside Labor Costs as p	up based on what was a nted ave cost into the sto erage, it will do a cost rol eive back from mfg recor c/MRP's Stockroom doe	<u>Cancel</u> 45 set to average, pc/MRP will p actually issued to the sales or w ockroom's receive back from mfg off up on standard costs and inse rd. This option will not pick up lr as not issue Inside or Outside La 50 should be updated to 8.95V official	ork order . record. If rt the new side and bor. With

Note: In Versions **8.95A-U**, pc/MRP failed to perform a cost roll-up even with the appropriate box checked. This problem was fixed with Revision 8.95V.

# **Option 62, Allow Editing of Sections of the Inventory Screen**

Option 62 allows you to turn off the ability of users to edit quantity, costs, and sale price fields. Un-checking the Quantities Fields forces users to use the stockroom's "Adjust quantities" option to change quantities of parts in stock. This will leave a record of the adjustment along with a comment line explaining the adjustment. pc/MRP's "Inventory Movement Report" will only be accurate if the stockroom is used to adjust quantities and not by editing inventory. Includes inventorea area quantities from Stores to Area-20 and WIP.

Location fields: for Stores – Area-20.

Other Quantities: On Order, On Demand, Estimated Usage, Std Order Qty, Minimum Qty, Maximum Qty, Minimum weeks of Inventory, Weeks Onhand.

General Costs: Average, Standard, Last PO costs. Un-checking General Costs will protect Accounting from costs being changed by a user. pc/MRP will automatically change average costs on a weighted average whenever a part is received.

Vendor Costs: PO Unit Qty and Stock Unit Price on the Vendors tab.

Vendor Information: PO Ratio, Po Unit, Buyer, Vendor's Currency, Phone, Representative, Quote Ref, Price Date, NCNR item, Vendor's Part #, Description, Lead Time (Days), New Vendor, Remove Vendor.

Manufacturers / Model Numbers: Manufacturers, Mfg Part# (Model Numbers).

Sales Pricing: All fields under the Sales Prices tab.

General Part Information: Stock & Issue Unit, Lead Time, Order Multiple, Alternate Part#s, General Info, Type, Division, Description, and all fields under the Details 2 tab.

# **Option 63, Set Document Item Limits for Sales and Purchasing**

Option 63 allows users set the maximum number of line items allowable for sales and purchase orders.

# **Option 64, Set The Default Inventory Class Type**

Option 64 sets the Cycle Count Class Field to be set to "A", "B", or "C" whenever a new part number is created. Also see Option 20 and the Cycle Count section in this Manual.

# **Option 65, Set Default Lead Times (in Days)**

Option 65 sets the default for inventory and assembly lead times. Only check the "Lead Times are allowed to be '0' " check box if you intend to manually enter the lead times for every part number. If the box is unchecked, MRP will use the default lead time for parts with zero lead time.

# **Option 66, Set new Work Orders as Consumable**

Option 66 sets newly created work orders as Consumable by default.

# **Option 67, Set the Sale Price Lookup Method**

Option 67 sets the sales price lookup method to either Sales Level Quantity or Sales Category Matrix. For information about both methods, see the Inventory Chapter. 5.1.2.8. We recommend this option be set to Sales Level Quantity as this method is more straight forward and easier to understand.

# Option 68, Allow stepping down for BOMs marked as 'P' in the inventory module

Sub-assemblies marked as P in the inventory module are called Phantom BOMs. Companies would use phantom BOMs if they order those assemblies from vendors, but they still want to see the structure of it. (Section 12.10) Option 68 allows users to step down through phantom BOMs while editing or printing out a costed or uncosted exploded BOM.

# Option 69, Set the Physical Inventory Entry Window's Button Order

Option 69 allows you to set the order of the Data Entry Buttons to Enter-Add-Cancel or Add-Enter-Cancel.

# **Option 70, Add Freight Cost (Incoming) into the Cost of Sales**

Option 70 can be set to increase the Purchase Cost displayed on the Sales Order and Invoice Screen. We recommend leaving this option set to 0%. Setting this to say 10%, would increase the Purchase Cost by 10%. pc/MRP does not use the Invoice's Purchase Cost Field when it debits COGs and credits Inventory when posting an Invoice in pc/MRP's and QuickBooks Accounting Modules. So it has no effect on accounting.

# **Options 71.- 80.**

# Option 71, Show Each Sub-assy Cost from the Partmast table for the Exploded BOM Report

Option 71 allows sub-assembly costs to be displayed along with component costs when displaying or printing an exploded BOM. We recommend leaving this option set to No. If you set this option to No, only the component part costs are displayed on an exploded BOM. The assembly is displayed but the cost of the assembly is not displayed. If you set this option to Yes, the assembly costs would also be displayed. If one were to manually add up all the costs displayed on an exploded BOM with this option set to Yes, the total would exceed the correct total displayed on the bottom of the printout.

# Option 72, Remap (Change) Chart of Account Numbers and Propagate the Changes

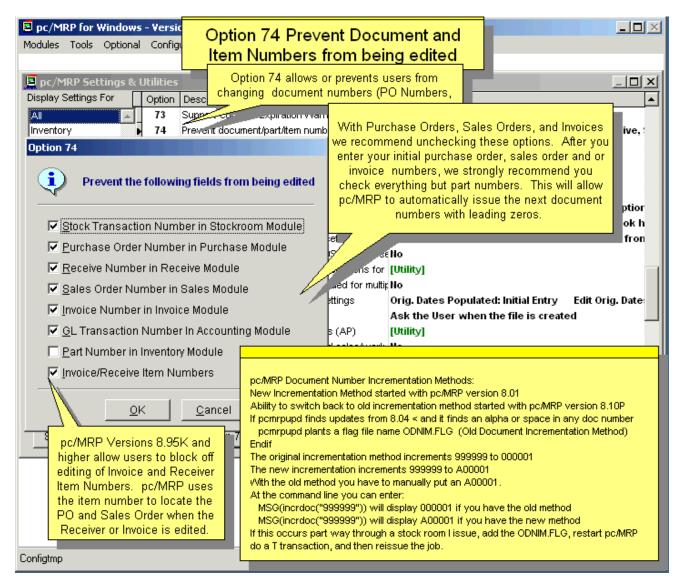
Option 72 allows users to change one ore more chart of account numbers. This utility will then propagate the change in every necessary pc/MRP table. (Historic accounting transactions, account templates, backup chart of accounts, inventory, invoice, sales, purchase orders, receivers, sales quotes and purchase quotes.)

# **Option 73, Support Contract Expiration Warning in Days**

Option 73 allows you to set the numbers of days ahead you would like to be warned that your pc/MRP Support Contract is due to expire. The allowable range is -2 to 99 days.

Entering 0 will warn on the last day of your contract. Entering -1 will warn when your contract has expired. Entering -2 will disable the popup warning.

# **Option 74, Prevent Document/Part Number from Being Edited**



**Notes:** Part numbers cannot be edited, regardless of any settings. If you need to change a part number, use Change Part Number from the Inventory menu. Checking "Part Number in Inventory Module" in Option 74 will prevent changing the next available part number when entering a new part into pc/MRP.

If you have document numbers that are less than 6 characters and you want to correct this, call Software Arts to add leading zeros to the document numbers. For the stock transaction numbers or the accounting transaction numbers, set an admin lockout, create a backup, open the table. Enter "REPLACE ALL TRANNO WITH PADL(TRIMSTR(RECNO())),6,"0" (or stktrano for Stocktra). If you need to do this for e.g. for the Purchase table, remember to repeat the process for the Receive and the Transact tables.

If you want to completely renumber the document numbers in a table (Purchase, Receive, Sales, Invoice, Stockroom, and Accounting Transactions) call Software Arts. Enter REMOTEFORM("RENUMBER") (or run the renumber.scx and .sct files for older versions). See note for Option 75.

If a full update finds an alpha or space in any module document number, pc/MRP plants a flag file named ODNIM.FLG into the PCMRPW folder. The old document number incrementing method would only increment numeric values, and 99999 goes to 000001. The new method would automatically go to A000001. With the old method you have to manually enter an A00001. Another method to check the document number incrementing method is to enter msg(incrdoc("9999999")).

# **Option 75, Repair Duplicate Document Numbers**

Option 75 allows users to renumber records with duplicate document numbers. This utility supports the following tables: transact, stocktra, emptimesh, and inspect. This function searches through the selected table for duplicates. Any duplicate that are detected are renumbered to the next available number. If you want to completely renumber the document numbers in a table (Purchase, Receive, Sales, Invoice, Stockroom, and Accounting Transactions) call Software Arts to run the remoteform("renumber") utility from the command line. (Or to transfer and run the renumber.scx and .sct files from the command line.) Set an Administrative Lockout and make a backup before running these options. **Note:** The renumber utility will propagate the document number change for Receivers, Sales, and Invoices into the Serial/Lot detail records.

If renumbering the Purchase table, changes will be propagated for the Receivers and Accounting records. If renumbering the Sales table, changes will be propagated for the Invoices and Accounting records.

# **Option 76, Allow pre-seeding the Physical Inventory Counts with Current Inventory Values**

The Physical Inventory process allows users to zero out the physical inventory team count fields, or to load (preseed) current inventory quantities into these fields. The pre-seed selection will only be offered if Option 76 is set to yes.

# **Option 77. Purge Unneeded Revision Update Folders from Disk**

Option 77 allows users to remove temporary folders and files that were created during the automatic revision updates. All folders and files are removed except for the most recent folder and associated files.

# Option 78. Select the Source for the Division Field on Purchase & Sales Orders

Option 78 allows users to set the source for the division field for purchase orders and sales orders. In both cases uses can select to have the division field populated from the representative inventory item or address entry.

# Option 79. Get Labor Hours from Employee Time Sheets when Receiving back completed assemblies from MFG.

This Option will only be available if the optional Employee Time Sheet Module is activated.

Option 79 allows users to enter labor hours when receiving back completed assemblies or have the labor hours populated from the (optional) Employee Time Tracking module. If you set Get Labor Hours from the Employee Time Sheet Table, you can select to get the hourly labor rate from the Employee Pay Rates or from the Average Labor Rate (Option 6). If the Employee Time Sheet Option is checked, the employee hours will be entered into the stockroom labor record. This means the <u>employee time sheets must be complete before</u> the sales or work order is received back from manufacturing. Please note that the Manufacturing Variance Report uses the stockroom records for employee time and cost. The Cost of Sales Report based on Stockroom Transactions can report the labor cost for a sales or work order based on Employee Time Sheet Records or Stockroom Records.

**Note**: If Option 79 is set to Get Labor Hours from the Employee Time Sheets AND Employee Pay Rates, pc/MRP will Sum the Total Cost of the Labor (from the time sheets) divided by the total number of hours (from the time sheets) to arrive at an Average Hourly Labor Rate. The Total Number of Hours will be displayed on this screen (not editable). The Total Number of Hours and the Average Hourly Labor Rate will be inserted into the Issued To Manufacturing Labor Record for this sales/work order. Overhead is NOT factored into this stockroom record. For this stockroom record to be accurate, employee time sheets must be completed for the sales/work order before receiving the sales/work order back from manufacturing. Nor there can not be multiple receive backs from manufacturing for a sales/work order.

# **Option 80. Set the Logbook Options.**

Option 80 sets the file format that will be used when creating logbook files from various pc/MRP modules. The available file format options are: "Generic Text Document (.txt)" or "Microsoft Word Document (.doc)". The default is "Generic Text Document (.txt)".

This option also has a setting to automatically pre-insert header information about the current record into the logbook when it is created. **Note:** Logbooks cannot be created in "View" mode.

#### **Options 81.- 90.**

#### **Option 81. Salesman & Commission Source Settings for Sales Orders.**

Option 81 allows users to set where the Salesman's name and commission come from; the Address Book Module or the Inventory Module. In addition users can set where the Salesman's name and commission come from on subsequent line items.

#### Option 82. Mark SO/WOs with an Issue Subs Only Assembly as Require Dedicated Work Orders.

Option 82 can be set such that newly created Sales/Work Orders be flagged as Requiring Dedicated Work Orders if the sales or work order assembly is flagged as Issue Subs Only in the Inventory Module.

#### Option 83. Add, Edit or Delete the Terms and Conditions for Purchase Orders & Purchase Requests.

Option 83 allows the user to add, edit or delete Terms and Conditions for Purchase Orders. T&Cs that are checked as default, are included in all new purchase orders. When a user is creating a purchase order he/she can press the Options Button to select Terms and Conditions other than the default.

When a purchase request/quote is created in the request.dbf file it will store the default terms in its termcond memo field. If the termcond field is not empty the terms and conditions sheet will print out right after the purchase request/quote prints out. This is the same for a PO with the exception that a PO's Terms and Condition Field can be manually edited by pressing the Options button on the PO Data Entry Screen. Creating 2 files named Requestb.ef and PoQuob\_Ship.ef will prevent the T&C page print out. The files should contain PCTERMCONDIDLIST = "" after the ~IN~ clause.

#### **Option 84. Dedicated Work Orders Can Be Issued for Multiple Levels.**

Option 84 allows users to issue sub-assemblies and or parts in that sub-assembly to a sales order that requires dedicated work orders. Under normal circumstances the default setting is No, as pc/MRP is expecting to issue completed sub-assemblies that were completed from the dedicated work orders.

# **Option 85. Set ISO 9000 Vendor Performance Days allowed for On Time Delivery.**

Option 85 sets the allowable days early and allowable days late for a vendor delivery to be marked as on-time. The default settings are 99 days early and 0 days late. Changing these settings will not re-calculate the on-time delivery state of prior purchase order line items already received.

B FOX C:\V881 (User: DOUG) Modules Tools Optional Configuration Option 85, ISO 9000 Settin	ngs
Display Settings For       Option       Description         All       84       Dedicated work orders can be issed to populate inventory       B4         Inventory       85       ISO 9000 Vendor Performance Set to populate inventory       Confirm Check allow both date inventory         BOM       Dption 85       ISO 9000 Vendor Performance Report       Sets the days is a solution of the days is a solution of the days is a solution.         Stockrey       ISO 9000 Vendor Performance Report       Sets the days is a solution.         Vision       Original Date Required and Original Ship Dates Will be Populated       Ouring Initial Entry         Compare       Allow Editing       Allow Editing         Global :       Allowable Days Early       99 •         Allowable Days Late       0       1	Ate Required is populated when order was entered (default). ions 8.81E and higher can be te the Original Date when the kbox is checked and you can tes to be edited (default = .F.) The default settings are 99 early and 0 days late. Changing these ngs will not re-calculate the on-time ery state of prior purchase order line items already received.
Send to File Change Option 85 Revert Option 86 either to date required to File Time is of the set o	ng's ISO 9000 Vendor Performance report ays the current date required. pc/MRP as 8.72AA and 8.73E and higher display he Original Date Required or the current uired depending how Option 85 is set. On determined when the part is received and calculated when the report is generated.

**Note:** The Original Date Required is populated when the purchase order was entered (default). pc/MRP can be set to populate the Original Date when the Confirm Checkbox is checked and you can allow both dates to be edited (default = not allowed).

Users can select vendor on time delivery based on the date required or the original date required. Purchasing's ISO 9000 Vendor Performance Report displays the current date required. On Time is determined when the part was received and not recalculated when the report is generated.

# **Option 86. DBF and Excel Output Settings**

Option 86 sets the output of a report sent to DBF, to either dBase III, Visual FoxPro Format or Ask. It also allows the user to enable support for larger Excel files, or to disable this for faster results with smaller files.

VFP - C:\V914 (User: DOUG) odules Tools Optional Configuration Manual	Option 86
Display Settings For     Option     Desc     sent to       All     83     Add     sucrs       Inventory     84     Dedice     sucrs       BOM     85     ISO 9050 Vendor Performance       Stockroom     86     DBF and Excel Output S       Purchase Order     87     Close invoices (AR) and	Settings Tables: Ask the User when the file is created
Select the format options for DBF table output.	le and Excel dBase III file format Visual FoxPro file format
Ask the User when the file is created  Excel Export Options	Int r [None]         Version 9.14D and Higher         ODCODE,PARTMAST.DE:
Disable support for larger Excel files. WARNING: Disabling may result in data loss	Disabled
<u>QK</u> <u>Cancel</u>	pc/MRP Versions 9.14C and lower send up to 65,534 records to Excel as an 95 version of Excel. After you open it, you must save it as your current version of Excel to keep Excel from deleting all but the first 16,000 records.
Send to File Change Option 86	With Version 9.14D and higher pc/MRP will send an unlimited number of records as your current version of Excel. If the there are over 65,534 records, pc/MRP 9.14D will import all the records into multiple worksheets, 65,534 per worksheet. If you check Disable Support for larger Excel files, you will get up-to 65,534 records in the primary worksheet as your current
nfigtmp	version of Excel.

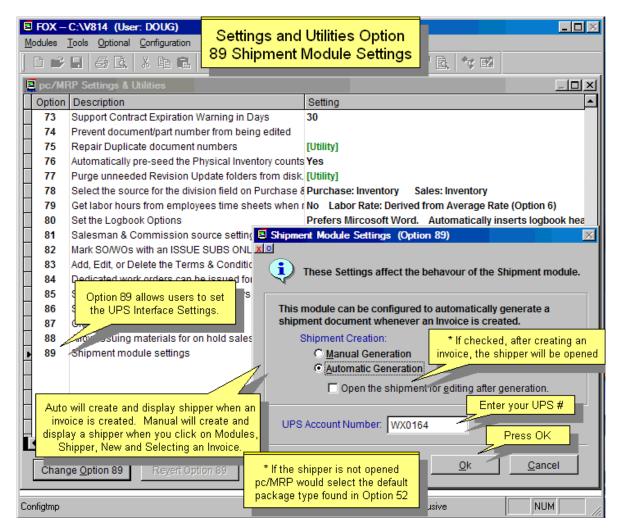
# **Option 87. Close Invoices (AR) and Receivers (AP).**

Option 87 is for companies that have been using pc/MRP but have not been using pc/MRP's Accounting Module and would like to start using the accounting module. This option allows users to easily mark multiple invoices and receivers as posted (Y in the Posted field) or complete (Y in the Complete field). A "Y" in the posted field signifies the invoice or receiver has been posted (AR or AP was increased). A "Y" in the Complete field signifies the invoice or receiver has been paid. Continue to mark receivers and invoices as paid until the AR and AP are correct.

# **Option 88. Allow Issuing Materials for On Hold Sales/Work Orders in the Stockroom Module**

Option 88 prevents parts from being issued to on hold sales orders.

**Option 89. Shipment Module Settings (UPS Interface)** 



# **Option 90. Invoice Warnings**

Option 90 can be set to (1) Require customer purchase order numbers on an invoice prior to saving the invoice. (2) Allow a credit memo to exceed the invoice amount.

#### **Options 91.- 100.**

# **Option 91. Require Entry of REQ SHIP DATE on Sales Orders/Work Orders/Sales Quotes**

Option 91 can be set to require a date required prior to saving the sales/work order. This is needed for an **ISO 9000 Customer On-time Delivery** report or when the Overdue Only 'Include' option is selected for Sales Order reports. This setting does not affect "Cash" or "On Account" orders.

#### **Option 92. Require Entry of DELIVERY DATE on Purchase Orders/Purchase Requests**

Option 92 can be set to require a delivery date prior to saving the purchase order. This is needed for an **ISO 9000 Vendor Performance** report or when the Overdue Only 'Include' option is selected for Purchase Order reports.

# **Option 93. Change the Configuration Code Number**

The company's Configuration Code Number is based on the company's phone number. This is sensitive information, Software Arts supplies this number at the original purchase of the software. Users can request this number from their administrator. If a company changes their phone number (in Option 1), their Configuration Code will change too. Their Administrator will need to call Software Arts to obtain the new Configuration Code.

Companies can change their Configuration Code Number if desired, however in some cases this might cause a delay in Software Arts providing technical support for the company. In case the new code is forgotten, a company changes their phone number, the Administrator will need to call Software Arts to have the original Configuration Code set back.

# **Option 94. Require Users to Enter Valid Chart of Account number**

Example 1: When you enter a sales order, pc/MRP carries over any account numbers that are entered for that part. If the part has the account numbers blank, the account fields in the sales order (and later in the invoice) will be blank as well. At the time of posting the invoice, the default chart of accounts (set in Option 9) will be used.

Option 94 allows users to set which modules require valid account numbers before the records can be saved. If for example the Sales module is checked, pc/MRP will look for the account numbers entered, and users will not be able to finish entering the sales order if the account numbers don't exist in the Chart of Accounts. A checkbox allows blanks to be considered as valid.

Example 2: If Inventory is checked and you enter a new part number, pc/MRP will not let you save that new part number without valid account numbers. This is the same for the other modules. If you leave the account numbers blank and the checkbox is checked in Option 94, OR the module is unchecked, pc/MRP will use the default chart of account numbers found in Option 9.

# **Option 95. Allow Credit Memo Creation from the Sales Order Module.**

Option 95 can be set to allow credit memos to be created from the sales order data entry screen.

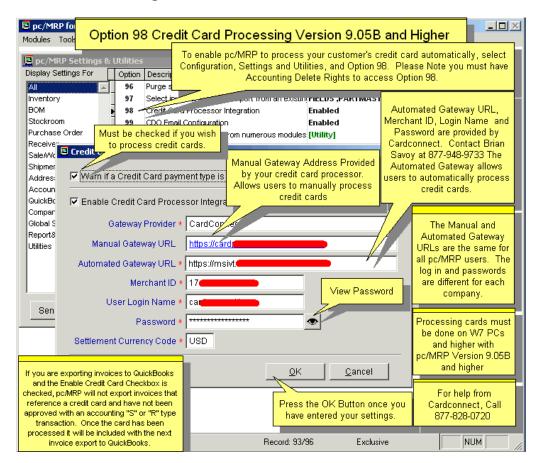
# **Option 96. Purge Saved User Related Settings, Queries and Lists**

This process allows the removal of the various stored settings, query definitions, export field lists, importation maps, etc. for one or more users. This is typically performed after a user's employment has terminated. Please note that this process will not purge or alter a user's entry in the optional Password module. Removal of a user's Password access rights must be performed directly within the Password module.

# Option 97. Select Inventory Fields to Import from an Existing Part when Creating a New Part.

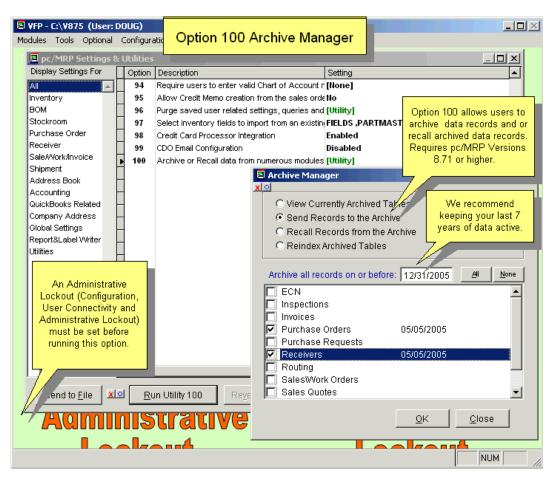
		ion 8.60R (User: DOUG)	er Help			>
Modules Tools Option	& Utilitie Optior 96 97 98 Field Select th existing Fie PAR PAR	Description Purge saved user related Select inventory fields to i Credit Card Processor Inte Selection ne inventory fields that y part to a new part when id Name TMAST.PRODCODE TMAST.CATINDEX TMAST.DESCRIPT	settings, queries a mport from an exist agration ou wish to impor a creating a new Data Type Character Character Character Character	tin FIELDS , Enabled rt from an part. Size 2 3 35	Option 97 allows user the fields to be impor creating a new part based on an existi number.	ted when number
Report&Label Writer Utilities	PAR     PAR     PAR     PAR     PAR     PAR     PAR	TMAST.MANUFACTER TMAST.MODELNO TMAST.DRAWSIZE TMAST.DRAWNINGNO TMAST.REVLEVEL TMAST.COST TMAST.POUNIT	Character Character Character Character Character Numeric Character	25 23 1 15 3 14,6 6	Select None	×
Send to <u>File</u>	Cha	ange <u>O</u> ption 97 Rey	ert Option 97		<u>S</u> ave	<u>C</u> ancel
Configtmp			Record: 95	i/96	Exclusive	

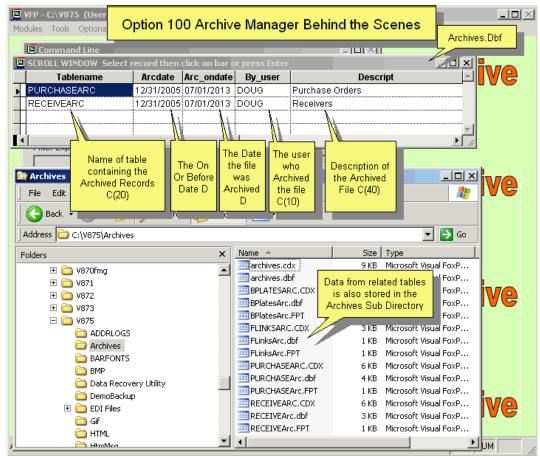
**Option 98. Credit Card Processor Integration.** 



VFP - C:\V888 (User: DOUG) Modules Tools Optional Configure Option 99 C	DO Email Configuration Smpt.gmail.com
	able pc/MRP to use CDO instead eents (including Bulk Emailer). 2. Enter the Outgoing Mail (SMTP) Server name or IP address along with the default ports. The normal port for SSL is 465. You can obtain this information from your ISP
Outgiong Mail (SMTP) Server         Location: (199.236.xxxx or xxxx.com)         * pcmrp.com         Default From: (Your Name)         * Doug Spencer         Default Sender: (Your Email Address)         * dspencer@pcmrp.com         Default BCC (Forward copy to this email address)         * dspencer@pcmrp.com         Image: SMTP server requires authentication         Image: Use SSL Connection         SSL Option available in Versions 8.88 and higher	
Login Name * dspencer Password * **** 4. Enter the Login Name and Password for your ISP account. 5. Press the OK Button and Save Settings Button on the Configuration Screen Configtmp	Iest Connection         Note 1: When using CDO to email a document (Invoce, PO, etc) you must check "Send without Displaying" Checkbox.         Note 2: CDO sends the email to the email address listed in the document.         Note 3: If you are having trouble with CDO, use the same settings for Outlook Express. To create an account, select Tools, Accounts, Mail, and Add. Enter your name, email address, Outgoing Server, Account Name, Password, next and finish.         Note 4: If you get a "Failed to locate mail server" error msg, set the Server Port to 25 or 2525.

# **Option 100. Archive Manager - Archive/Recall Data Records**





# **15.1.3 Modules and Related Settings**

# Address Book Module (Customer and Vendor Information):

- 37. Credit Card digit validation & formatting
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 78. Select the source for the division field on Purchase & Sales Orders
- 81. Salesman & Commission source settings for Sales Orders

# **Inventory Module (Part Item Information):**

- 4. Inventory adjustment methods (A is recommended)
- 20. Cycle Count Options (Full or Differential)
- 28. Define part number size (1-15 Characters)
- 29. Define product code size (Part Number Prefix 1-6 Characters)
- 32. Check inventory for invalid vendors
- 34. Change names of alternate storage areas in inventory
- 47. Set the inventory defaults (Allow SalePrice Markups and Cost Rollups)
- 48. Set the part number suffix size and default content (0-4 Characters)
- 49. Set the part number incrementation method
- 50. Set the average cost calculation to include area(s)
- 56. Match a customer part list to the pc/MRP inventory list
- 58. Modify the part description templates
- 59. Set the Cost Roll-up defaults (Average, Standard, LastPO)
- 60. Set the Labor Overhead Mark-up percentage
- 62. Allow editing of sections of the inventory screen (Costs, Quantities, Etc.)
- 64. Set the default inventory Class type (*Cycle Count A*,*B*,*C*)
- 65. Set the default lead times (in Days) (Allow 0 days)
- 67. Set the Sale Price Lookup method (Sales Level Quantity is recommended)
- 69. Set the Physical Inventory entry window's button order (Enter Add Cancel)
- 74. Prevent document/part number from being edited (Invoice, Purchase Order, Etc.)
- 76. Automatically pre-seed the Physical Inventory counts with the current Inventory value.
- 78. Select the source for the division field on Purchase & Sales Orders (Address or Inventory)
- 81. Salesman & Commission source settings for Sales Orders (Address or Inventory)
- 97. Select inventory fields to include when creating a new part number and copying fields from an existing part number.

# **BOM Module:**

- 36. Export/Import BOM to another copy of pc/MRP
- 51. Allow a BOM part or item number to be included multiple times
- 54. Update the alternate part numbers on all BOMs (From Inventory file)
- 59. Set the Cost Roll-up defaults (Average, Standard, LastPO)
- 61. Allow costed BOM reports to update the assembly cost in inventory
- 68. Allow stepping down for BOMs Marked as 'P' in the inventory module
- 71. Show each sub-assy cost from the partmast table for the Exploded BOM Report

#### **Stockroom Module:**

- 6. Change average hourly labor rate (used in Job Cost Reports & BOM Costs)
- 45. Set the stockroom defaults (Cost to use: Avg/Std; Issued Qty when short)
- 52. Edit the content of various list boxes (Stock adjusting reason list)
- 74. Prevent document/part number from being edited
- 75. Repair Duplicate document numbers
- 79. Get Labor from the Employee Time Sheets when Receiving back completed assemblies.
- 88. Allow issuing materials for on hold sales/work orders in the Stockroom module

# **Purchase Order Module**

- 7. Sales tax rate (%) and settings
- 22. Enter boiler plate notes for forms
- 25. Data to be inserted into the PO's "Placed By" field
- 42. PO cost based on .... (Get PO cost from vendor price list, last PO cost, average cost)
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 63. Set document item limits for Sales and Purchasing
- 74. Prevent document/part number from being edited
- 78. Select the source for the division field on Purchase & Sales Orders
- 83. Add, Edit, or Delete the Terms & Conditions for Purchase Orders
- 85. Set ISO 9000 Vendor Performance Days Allowed for On Time Delivery
- 92. Require Delivery Date on Purchase Orders

# **Receiver Module:**

- 16. Enable dynamic location in receiver
- 22. Enter boiler plate notes for forms
- 38. Include AP voucher information on receiver reports
- 44. Set the default receiving area
- 46. Allow the Auto Receive option
- 50. Set the average cost calculation to include area(s)
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 74. Prevent document/part number from being edited
- 87. Close invoices (AR) and receivers (AP)

# Sales /Work Order/Invoice Modules:

- 7. Sales tax rate (%) and settings
- 17. Cost of sale data source.
- 22. Enter boiler plate notes for forms
- 35. Type of cost imported into the Cost of Sale
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 53. Sales Warnings (Credit Limit, Save & Hold, Password setup)
- 55. Put Serial Numbers into the invoice comment field
- 57. Allow shipper generation based on sales orders
- 63. Set document item limits for Sales and Purchasing
- 66. Set the new Work Order as Consumable
- 67. Set the Sale Price Lookup method
- 70. Add freight cost (incoming) into the cost of sales for a sales order based on a % of standard costs
- 74. Prevent document/part number from being edited
- 78. Select the source for the division field on Purchase & Sales Orders
- 81. Salesman & Commission source settings for Sales Orders
- 82. Mark SO/WOs with an ISSUE SUBS ONLY assembly as REQUIRE DEDICATED WORK ORDERS.
- 84. Dedicated work orders can be issued for multiple levels
- 87. Close invoices (AR) and receivers (AP)
- 88. Allow issuing materials for on hold sales/work orders in the Stockroom module
- 90. Require Customer Purchase Order Numbers on Invoices
- 91. Require Date Required on Sales/Work Orders
- 95. Allow Credit Memo creation from the Sales Order module.

# **Shipment Module:**

- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 89. Shipment module settings.

# **Accounting Module:**

- 3. Allow goods and services taxes for "P" and "I" accounting transactions
- 5. Change starting month of fiscal year and period end dates
- 8. Auto Accounting-or-Make accounting separate (Manual)
- 9. Modify chart of account template Add division/department to chart of accounts
- 10. Accounting inventory method (Perpetual recommended)
- 11. Multi-division chart of account templates
- 13. Allow checks to be reprinted
- 14. Accounting transactions settings (Allow editing of transactions and Lockout Date)
- 15. Pre-printed check numbers
- 32. Check inventory for invalid vendors
- 35. Type of cost imported into the Cost of Sale
- 50. Set the average cost calculation to include area(s)
- 59. Set the Cost Roll-up defaults (Average, Standard, LastPO)
- 60. Set the Labor Overhead Mark-up percentage
- 72. Remap (change) Chart of Account numbers and propagate the changes
- 74. Prevent document/part number from being edited
- 75. Repair Duplicate document numbers
- 81. Salesman & Commission source settings for Sales Orders
- 94. Records that require a valid Chart of Account number
- 98. Configuring pc/MRP to process credit cards

# **QuickBooks Related Settings:**

- 10. Accounting inventory method
- 28. Define part number size (1-15 Characters)
- 35. Type of cost imported into the Cost of Sale
- 50. Set the average cost calculation to include area(s)
- 60. Set the Labor Overhead Mark-up percentage
- 70. Add freight cost (incoming) into the cost of sales for a sales order based on a % of standard costs

# **Company Information Settings:**

- 1. Change company address information (Name, Address, phone, etc.)
- 2. Print or Suppress address information on forms (Sales, Invoice, Shipper, etc.)
- 93. Change Configuration Code
- 99. CDO Email Configuration

# **Global Settings:**

- 18. American-or-European date format
- 19. PDF and HTML file generation (Enabled & printer driver or Code based)
- 30. Message Timeout in seconds (*Display time for Update messages*)
- 31. Change Password (pc/MRP login password if not using the Advanced Password Module)
- 33. Set the eMail default subjects and messages
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 73. Support Contract Expiration Warning in Days (-2 to 99)
- 80. Set the Logbook Options (Select MS Word or MS Notepad)
- 86. Set DBF file output format (DB-III or VFP or Ask User)

# **Custom Report & Label:**

- 24. Report Writer (Modify Report/Label/Form) (Customer Custom Modifications)
- 39. Print\Display the file structure for a selected DBF table (Shows name & description)

# 15.1.4 Utilities

- 9. Modify chart of account template Add division/department to chart of accounts
- 21. Reformat a form for HTML compatibility
- 22. Enter boiler plate notes for forms
- 23. Create ASCII text files (Select the Database file to convert)
- 24. Report Writer (Modify Report/Label/Form) (Customer Custom Modifications)
- 26. Launch a plug-in utility process (Standalone processes purchased by customer)
- 27. Re-index all index files and check for corruption (Lockout all other users)
- 32. Check inventory for invalid vendors
- 33. Set the eMail default subjects and messages
- 36. Export/Import BOM to another copy of pc/MRP
- 39. Print\Display the file structure for a selected DBF table (Field Names & Descriptions)
- 40. Import data into pc/MRP (Various import formats; DB-III preferred)
- 41. Check data tables for numeric field overflows
- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 54. Update the alternate part numbers on all BOMs (From Inventory file)
- 56. Match a customer part list to the pc/MRP inventory list
- 58. Modify the part description templates
- 72. Remap (change) Chart of Account numbers and propagate the changes
- 75. Repair Duplicate document numbers
- 77. Purge unneeded Revision Update folders from disk
- 83. Add, Edit, or Delete the Terms & Conditions for Purchase Orders
- 87. Close invoices (AR) and receivers (AP)
- 96. Purge saved user related settings, queries, and lists
- 100. Archive/recall data records

# **15.2 Backup Methods**

#### 15.2.1 Backup Strategy

Data that has been stolen, damaged, or is found to be corrupt can be easily recovered by simply having a backup. A strong backup method is essential to the success of every company. The question is not if you will need a backup, but when. It is just a matter of time until a hard-drive fails, data is intentionally or unintentionally erased, or a power surge simply crunches the data.

To prevent data loss from occurring, simply make a backup. pc/MRP, unlike most programs, does not write to the system registry and thus can be backed-up by copying the entire pc/MRP folder. As such, the data can be completely recovered by copying back the backup made or copying back specific files. Please call Software Arts, Inc. to determine which files to restore. By following the backup method outlined below you will have the best chances to recover data if it is necessary.

Select a good medium to store your backups. Many customers use anything from CD-RWs to Zip drives. We recommend CDs, DVDs, Zip drives, Jazz drives, or solid state USB devices. <u>We suggest NOT to use an</u> <u>incremental, continuous or compressed backup method.</u> To make a backup of pc/MRP simply copy the entire folder.

With whatever medium you select, we suggest using four different versions for backing up pc/MRP.

One backup set should be labeled <ODD DAYS> for backing up on odd days during the week. One backup set should be labeled <EVEN DAYS> for backing up on even days during the week. One backup set should be labeled <WEEKLY> for backing up on the last day of the week. One backup set should be labeled <MONTHLY> for backing up on the last day of the month. This copy should be kept off site in the event of fire or theft.

Using this alternating method allows users to go back days if not weeks to recover data. This also makes sure you are not writing over your last good backup.

Simply copy and paste the whole PCMRPW folder to your backup medium. You can do this through Windows Explorer. Do not drag and drop files. Use the CTRL-C and CTRL-V (Copy and Paste) commands. Do not write over existing backup data. Always delete the existing backup and then write to that disk. Do not do incremental backups. Do not compress backups. Always shut down your computer the correct way by exiting all programs first. Always store one of your recent backups off site.

# 15.2.2 pc/MRP Back-up Suggested Procedures

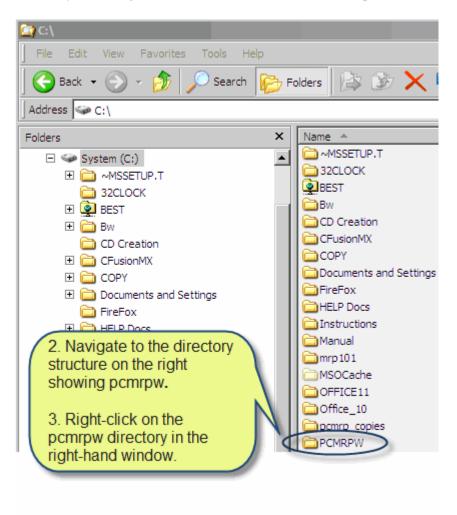
pc/MRP's directory is self contained. That is, pc/MRP runs entirely within its directory with no links to the Windows Registry or any '.ini' files. If your IT department allows you to make a backup of the pc/MRP directory, and you know where the directory is located, navigate to that directory and follow these instructions.

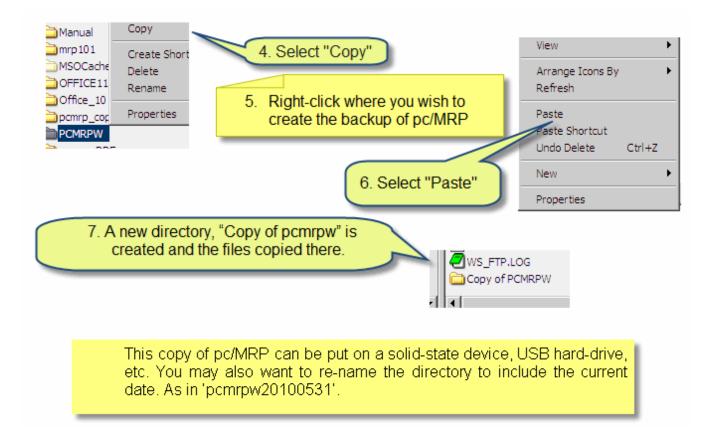
These instructions are referencing a "C:\" drive, yours may be different!

Therefore, to backup pc/MRP, just:

Go to "My Computer" (or Windows Explorer)

(You may have to: go to the menu bar and select: View, Explorer Bar, Folders to show the directory folders)





Software Arts, Inc. recommends you create a backup media for:

Even numbered days Odd numbered days Weekly Monthly

And, of course, a year-end backup.

# 15.2.3 Quick Backups

pc/MRP allows users to make backups of the pc/MRP data files by using the Configuration, Scheduled Administrative Tasks option.

These options should not be used as a replacement of full rotational backups as discussed above.

#### **15.3 Suggestions for a Faster Backup**

If possible, create the backup at the server. The process will be considerably faster by eliminating the work station to server communication.

Any unneeded file in your PCMRPW folder will make your backup last longer. See a few suggestions below for files that you can remove. Please consult with your IT person or pc/MRP Administrator before removing any files from the PCMRPW folder. If in any doubt, do not delete the file!

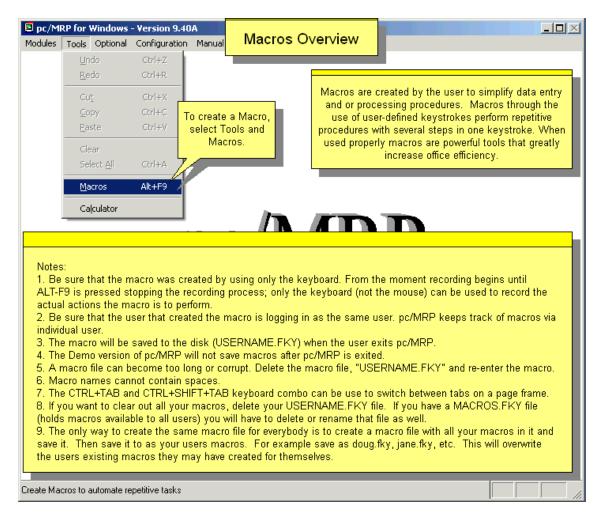
• pc/MRP backups should never be placed into the PCMRPW folder. If you see a PCMRPW backup folder inside your live PCMRPW folder, it should copy and pasted to a different place. A backup inside the PCMRPW folder makes you backup take twice as long.

- Every new version upgrade adds a new manual into your PCMRPW folder. E.g. the manual for Version 9.10 is PCMRP\_MANUAL\_910.PDF. You can delete any older manuals, like PCMRP\_MANUAL\_880.PDF, etc. You will gain approximately 20 MB with each. Some of your users might have a shortcut on their desktop to the old manual. In this case, change the shortcut to point to the new manual. They might not even notice they are using an old manual.
- Each revision update creates a subfolder in the REVUPDATE folder under PCMRPW. Each subfolder is approximately 40 MB. Depending on how often you perform revision updates (Section 15.13.3) these can add up to 500 MB 1 GB. You can easily remove older, unneeded REVUPDATES subfolders using **Option 77** in the Configuration menu. See Section 15.1.2 Option 77.
- pc/MRP Support Technicians (and users who are familiar with the use of the Command Line) often create a backup of a certain table before they are making changes to it. These backup files are usually marked with the date: i.e. partmast20150814.DBF. After checking with your administrator, you can delete some of the older backups.

# **15.3 Creating Macros in pc/MRP**

#### 15.3.1 Purpose of Macros

Macros are created by the user to simplify procedures. Macros through the use of user-defined keystrokes perform repetitive procedures with several steps in one keystroke. When used properly macros are powerful tools that greatly increase office efficiency.



# 15.3.2 A Few Suggestions before Making the Macro

- Have a clear understanding of what you want the macro to perform and the necessary steps to complete the function. Once recording begins, every step will be recorded.
- Be sure to use only the keyboard while creating your macro. A macro will NOT be created if the mouse is being used while the macro is recording.

# **15.3.3 Creating Macros**

Macros are created by selecting Tools then Macros from the main menu or by pressing ALT-F9. pc/MRP will first ask for the Macro Key Definition. This defines the keys you wish to use to perform the macro. We suggest using the Ctrl, Shift, or Alt keys in combination with other keys on the keyboard. Enter a macro name; Macro names must not contain spaces. Once the Macro Key Definition has been chosen by pressing Enter, recording of the macro begins. Use the keyboard to record from beginning to end the exact task(s) you wish the macro to perform in the exact order they are to be performed. Recording of the macro ends by pressing ALT-F9. After pressing ALT-F9 the Stop Recording Macro screen appears. By pressing Enter, the macro is complete.

# **15.3.4 Changing Existing Macros**

An existing macro can be changed by choosing the same Macro Key Definition after selecting Tools then Macro from the drop down menu or pressing ALT-F9. This will prompt the user to overwrite or append the existing macro.

# **15.3.5 Macro Notes and Trouble Shooting**

- Be sure that the macro was created by using only the keyboard. From the moment recording begins until ALT-F9 is pressed stopping the recording process; only the keyboard (not the mouse) can be used to record the actual actions the macro is to perform.
- Be sure that the user that created the macro is logging in as the same user. pc/MRP keeps track of macros via individual user.
- The macro will be saved to the disk (USERNAME.FKY) when the user exits pc/MRP.
- The Demo version of pc/MRP will not save macros after pc/MRP is exited.
- A macro file can become too long or corrupt. Delete the macro file, "USERNAME.FKY" and re-enter the macro(s).
- Macro names cannot contain spaces.
- The CTRL+TAB and CTRL+SHIFT+TAB keyboard combo can be use to switch between tabs on a page frame.
- If you want to clear out all your macros, delete your *USERNAME*.FKY file. If you have a **MACROS.FKY** file (holds macros available to all users) you will have to delete or rename that file as well.
- The only way to create the same macro file for everybody is to create a macro file with all your macros in it and save it. Then save it to as your users macros. For example save as doug.fky, jane.fky, etc. This will overwrite the users existing macros they may have created for themselves.

# **15.4 Custom Report and Label Making**

# 15.4.1 Overview / Example

The configuration menu in pc/MRP contains a custom Visual FoxPro report writer that allows users to modify pc/MRP reports, forms and labels. The table below contains the name of pc/MRP's standard and custom reports/forms/labels and the dbf file used with each of these. Keeping the original (standard) files will come in handy if you make a mistake and need to restore the original files.

It is best to open a standard report, rename & save it to the correct custom name, and then modify the new report. When pc/MRP is updated to a newer version, standard reports are overwritten and custom reports are not overwritten.

**Note:** When you select your custom report or form, you must remember to select the original report from the dropdown list box of reports that the custom report is based upon.

A good place to start is our web site that describes report modifications:

http://www.pcmrp.com/mrp101/customtableofcontents.htm

To create a custom report in pc/MRP:

- 1. Select Configuration, Settings and Utilities.
- 2. Enter your configuration code number.
- 3. Select Option 24.
- 4. Select Form or Label.
- 5. Select the correct file you wish to use as a basis for custom report, form or label

pc/MRP for Windows	
<u>File Edit View Format Tools Report Window Help</u>	
Report Designer - invlogw.frx	
T SALESH. I TRH. ST. GATERITE PARTHO. CUSTUMER. PHONE &	POSTEDHOUELD
▲ Page Header	
Group Header 1:INVOICEND	
SONO_   ITZENA   SA   LEFT (DATES   PARTNO   CUSTCORP   CUSTFHONE   DESCRIFT      Detail	. P MODELNO
0         : <td:< td="">         :         :         :</td:<>	
A Page Footer	
Summary	۲ ۸ ۲
<u>.</u>	NUM

- 6. Click on Open
- 7. Select File, Save as, enter the file as a custom .frx report (see sections starting at 15.4.2.1 for correct custom file names to use for your custom reports, forms, or labels), then press Save.
- 8. Make your modifications
- 9. Select File, Close, Save Changes
- 10. Return to pc/MRP's Main Menu
- 11. Remember to first pick the Standard report that your Custom report is based upon, as the report writer needs to open and create the same files and variables for your Custom report.
- 12. Print out the new report selecting Custom instead of Standard for reports and then select your Custom report. You can click on Save Settings to make custom reports default.

pc/MRP's Custom Report Writer is shown above with the following icons under Report Controls: **text A, field ab**|, **line, sq box, rounded box**, and **picture** (bit map). Clicking on an icon will allow you to add an object. Double clicking on any object allows you to edit and or move it.

Double clicking an object brings up the Report Expression dialog box (shown below) which allows you to edit the object.

Field Properties
General Style Format Print when Calculate Protection Other
Expression:
Object position
Fix relative to top of band     Fix relative to bottom of band
Stretch with overflow
Size and position in layout
From page top: Height:
From left: Width:
, _ ,
OK Cancel Help

The first box contains the expression (field, memory variable, or text) you would like to print out in that area of the report. In the example above the first 18 characters of the description would print out in the area you are editing. Clicking on the [...] button will allow you to select the memory or field variable from a list rather than typing in the variable expression by hand as shown below.

🔀 Expression Builder				×
Expression for Field on Repo	ort:			
DESCRIPT			<u> </u>	OK
			~	Cancel
Functions				
<u>S</u> tring:	<u>M</u> ath:			⊻erify
"text"	^		-	Options
Logical:	Date:			
0	{date}		-	
Fields:		Variables:		
	-	mdefault	C 🖃	
		mlevel	N	
		mpnsize	N	
		mchoice	N	
		configdm	C	
		configps configco	C	
	-	mtimeout	N 💽	

In the above example the descript field was selected by double clicking on the descript field in the fields list. To print out the first 18 characters of the part number, you could type in left(descript,18) into the expression box or click on the string function list and select the function left(). The String list contains all FoxPro string functions (substr(), alltrim(), etc.). The Logical list contains all FoxPro logic functions (and, or, etc.). The Math list contains all FoxPro math functions (+, -, /, \*,AVG(), SIN(), etc.). The Date list contains all FoxPro date functions (ctod(), dtoc(), month(), etc.). The Verify button will automatically verify that the expression you have built in the expression box is valid.

Under the Format tab you can format the data (!!!! = upper case, 999,999.99 = numeric only with thousand separator and 2 decimal places, etc.). Make sure you select the right data type: Character, Numeric or Date. The Print when tab will allow you to specify conditions that must be true for this item to print out. For example entering len(alltrim(partno)) > 0 would print out the part number only if it the length of the trimmed part number were greater than zero.

# **Example of Modifying a Report**

Suppose that you wish to make some changes to an inventory report.

- 1. Go to the Main Menu
- 2. Click on Configuration
- 3. Click on Settings and Utilities
- 4. Enter you Configuration Number
- 5. Scroll down to find **Option 24** or simply type 24
- 6. Click Run Utility 24
- 7. Click on Custom Form
- 8. Select the PARTS\$.FRX file by double clicking or click OPEN

Your screen should look like this:

pc/MRP for Windows		- <b>D</b> ×		
<u>File Edit View Format Tools</u>	Report Window Help	<u>مر ر در د</u>		
🔚 Report Designer - parts\$.fr	х	- O ×		
0 50 100 100	150   200   250   300   350   400   450	0 <u>500 550 6</u> ▲		
DAGE NO. PAGE	PARTMASTER REPO	RT		
MHEADER	<u></u>			
	DESCRIPTION	TOTAL QTY		
L 1 ··· ····· ··· ··· ··· ·············		····••		
PARTNO	DESCRIPTO	NHAND+AREA2QTY+ ST		
🔺 Detail				
Page Footer				
Total: ONHAND+AREA2QTY+ S				
Summary				

The first thing you want to do is to rename and save the file.

You want to save using the custom form name so as not to overwrite the original file.

- 1. Click on File
- 2. Click on Save As
- 3. The 'Save Report As' box should read: CUSPAR\*.FRX (\* means any characters you want. Keep the report names relatively short. Some reports will only have a ? or ??. This means your report name can end in any single character or double character you want.)
- 4. Click the Save button
- 5. Place your cursor over the title "Partmaster Report"
- 6. Hit the "delete" button on your keyboard
- 7. Click on the text box (A) over on the left hand side of the screen
- 8. Place the cursor over where "Partmaster Report" use to be and click
- 9. Type in "Partmaster Inquiry" and click somewhere on the screen
- 10. Click back onto your new text to highlight it with the little square boxes

- 11. Now go to the menu bar and click on Object
- 12. Click on Font; this should bring you to a font dialog box
- 13. The font should be Courier New, font style is Bold and size is 16; click OK
- 14. Click on Object again
- 15. Click Pen Color
- 16. Chose the color red

Your screen should look similar to this:

pc/MRP for Window	\$	
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>o</u> rmat	<u>I</u> ools <u>R</u> eport <u>W</u> indow <u>H</u> elp	
🗐 😨 🛠 🖳 🗐		
📓 Report Designer - d	cuspar01.frx	
0 50 10	0   150   200   250   300   350	400 450 500 500 550 6
<sup>0</sup> PAGE NO. PAGE DATE()	PARTMASTER RE	PORT
MHEADER		
BART NUMBER	DESCRIPTION	
L } ▲ Page Header		
PARTNO	DESCRIPT	ONHAND+AREA2QTY+ S'
🔺 Detail		
A Page Footer		
		otal:ONHAND+AREA2QTY+S
🔺 Summary		
		NUM

- Delete the text "DESCRIPTION" in the Page Header field
- Delete the field "DESCRIPTION" in the Detail field
- Click on the Text (A) icon
- Place the cursor where DESCRIPTION used to be in the Page Header field and click
- Type in "CLASSIFICATION" (make sure you type in capital letters)
- The font should be Courier New, bold, size 8
- Highlight CLASSIFICATION and check the font information to make sure
- Click on the Field (ab|) icon
- Place the cursor where DESCRIPT used to be the Detail field and click
- The Report Expression dialog box should pop up
- In the Expression Box type in "CLASS"
- Check the middle radio button: Top--Field Can Stretch
- Click OK
- Now you must stretch out the Field (ab) cursor using the arrow cursor You will know when you can stretch out the field when you get a cursor with arrows pointing out from the middle

Your screen should look similar to this:

pc/MRP for Windows
Report Designer - cuspar01.frx
01 <u>50</u> 100 <u>150</u> <u>200</u> 250 <u>300</u> <u>350</u> <u>400</u> <u>450</u> <u>500</u> <u>550</u> <u>6</u>
PAGE NO. PAGE PARTMASTER REPORT
MHEADER
PART NUMBER CLASSIFICATION TOTAL QTY
A Page Header
PARTNO CLASS ONHAND+AREA2QTY+ S
🔺 Detail
A Page Footer
Total: ONHAND+AREA2QTY+ S
Summary
NUM CAPS //

#### 15.4.2 List of Reports

pc/MRP for Windows includes the report, forms, and labels listed below. If the last character in the report name is "w" it is the wide carriage report. For example the UNCSIN report is the report used for 8.5" x 11" print outs and the UNCSINW report is the report form used for 14" x 11" printouts.

In the custom names replace the \* with any (number of) characters you like.

When viewing the displayed version of any report you can view the open tables by pressing CTRL-F12. This will open a TXT file with all of the open tables in the "select area" statement.

By example: "Select area: 1, Table in Use:

#### C:\MY DOCUMENTS\PCMRPTEST\PCMRPW890\PARTMAST.DBF Alias: PARTMAST"

This means the partmast.dbf is open when running this report.

#### REPORT LISTINGS HAVE THE FOLLOWING FORMAT:

# REPORT(.FRX) REPORT DESCRIPTION

#### DBF FILE USED

#### **BOM Module**

Standard BO	M Reports	
ALLBOM	standard all BOMs	bomtemp.dbf
AVABOM	standard parts availability report	bomtemp.dbf
CNVBOM	standard convert parts to assy report	bomtemp.dbf
EXPBOM	standard costed exploded BOM (incl comments)	bomtemp.dbf
PICBOM	standard pick list exploded and single level	bomtemp.dbf
PICBSN	standard pick list with available serial#'s	bomtemp.dbf
SINBOM	standard costed single level BOM	bomtemp.dbf
UNCEXP	standard uncosted exploded BOM (incl comments)	bomtemp.dbf
UNCSIN	standard uncosted single level BOM	bomtemp.dbf
UNCSRF	standard uncosted single level BOM w ref des	bomtemp.dbf
WHEBOM	standard where used	bomtemp.dbf
WHEBOMML	multi-level where used	wheretree(tmp)
		partmast, BOM
Custom BOM Reports		
CUSBOM* CUSTBOM*	custom BOM & Convert Parts to Assembly reports	bomtemp.dbf

**Note:** tmpb+[the first four characters of the users name].dbf instead of bomtemp.dbf for BOM reports. BOM reports automatically have a set relation into the partmast.dbf (except of where-used)

To set this relation: USE PARTMAST IN 0 ORDER FULLPN SET RELATION TO UPPER(PARTNO) INTO PARTMAST

# **Accounting Module**

ACCPAY	accts payable report	receive.dbf
ACCPAYW	accts payable wide carriage report	receive.dbf
ACCREC	accts receivable report	invoice.dbf
ACCRECW	accts receivable wide carriage report	invoice.dbf
BILL	billing statement form	billtmp.dbf
CASHOUT	standard cash out report	purchase.dbf
CHART	standard, narrow, wide carriage chart of acct	chartacc.dbf
CHKREC	check reconciliation report	prgltmp.dbf
COMMISS	commission report based on payment	transact.dbf
COMMISSI	commission report based on invoices issued	invoice.dbf
COSTSALD	cost of sale from stockroom + Employee Module	stocktra.dbf
COSTSALE	cost of sales report based on invoices	invoice.dbf
CURBAL	Std Balance for a date/time period based on the	prgltmp.dbf,
	Chart of Accounts	acctcursor
FIFO	FIFO report	fifotmp.dbf
FORM 1096	1096 Form	
FORM 1099	1099 Misc. Form	Form1099.dbf
GLINCOME	standard current month GL income statement	chartacc.dbf
GLTRIAL	standard trial balance report	chartacc.dbf
HREC	accts receivable payment history report	billtmp.dbf
PPV	purchase price variation report	ppvtmp.dbf
PRCHECKS	single laser check form	mchktmp.dbf
PRCREBIT	standard liability + equity side of bal sheet	chartacc.dbf
PRDCHK	single dot matrix check form	mchktmp.dbf
PRDEBIT	standard asset side of balance sheet	chartacc.dbf
PRGL	t-acct,4th close Mon,curr bal,accting reports	prgltmp.dbf
PRGL2	Std balance for a month, date, or all	prgltmp.dbf,
	transactions	acctcursor
PRGLALL	standard balance for a time period	prgltmp.dbf,
		acctcursor
ROFITANDLOSS	YTD profit & Loss, Div/Dept YTD Exp & Revenue	Profitandloss.db
		Chartacc.dbf

PRTRAN	general ledger and 5th close month gl reports	prtrntmp.dbf
PRYTD	year to date expense and revenue, Div/Dept YTD	chartacc.dbf
	Exp & Revenue report	
RECLOG	standard debit memo report	receive.dbf
RELCOSTSO	Cost of sale based upon related doc number	relcostso
REMIT	single check remittance report	transact.dbf
REMITALL	standard remittance list	transact.dbf
ROYALTY	standard royalty report	invoice.dbf
SOMANUFACTURECOST	Sales/Work Order manufacturing cost report	salescursor
SPAY2	summary accts payable report	acpaytmp.dbf
SREC	summary accts receivable report	billtmp.dbf
TAXLOG	in state sales tax report	invoice.dbf
TAXLOGO	out of state sales tax report	invoice.dbf

#### Custom Accounting Reports and Checks

Custom Accounting R	eports and checks	
CACCPAY*	custom accts payable report	receive.dbf
CACCPAYW	custom accts payable wide carriage report	receive.dbf
CACCREC*	custom accts receivable report	invoice.dbf
CACCRECW	custom accts receivable wide carriage report	invoice.dbf
CBILL*	custom billing statement form	billtmp.dbf
CCASHOUT*	custom cash out report	purchase.dbf
CCOMMISS*	custom commission report based on payment	transact.dbf
CCOMMISS*	custom commission report based on invoice	invoice.dbf
CCOMMISS*	custom commission on payment/invoice	transact.dbf
		invoice.dbf
CCOSTSAL*	custom cost of sales(invoices),Manufact Variance	invoice.dbf
CFIFO*	custom FIFO report	fifotmp.dbf
CCHKREC*	custom check reconciliation report	prgltmp.dbf
CGLTRIAL*	Custom current month Trial Balance report	chartacc.dbf
CHREC*	custom accts receivable payment history rpt	billtmp.dbf
CPRCREDIT* CPRCRBIT*	custom Balance Sheet, Liability & Equity	chartacc.dbf
CPPV	custom purchase price variation report	ppvtmp.dbf
CPRDEBIT*	custom Balance Sheet, Assets report	chartacc.dbf
CPRGL*	custom t-acct,4th close mon, cur bal acct reports	prgltmp.dbf
CPRTRAN*	custom general ledger, 5th close month GL reports	prtrntmp.dbf
CPRYTD*	Custom year to date expense and revenue report	chartacc.dbf
CRECLOG	custom debit memo report	receive.dbf
CRELCOSTSO*	Custom cost of sale based upon Related doc nbr	relcostso
CROYALTY	custom standard royalty report	invoice.dbf
CSOMANUFACTURECOST	Custom SO/WO manufacturing cost report	salescursor
CSPAY2*	custom summary accts payable report	acpaytmp.dbf
CSREC*	custom summary accts receivable report	billtmp.dbf
CTAXLOG*	custom in state sales tax report	invoice.dbf
CTAXLOGO*	custom out of state sales tax report	invoice.dbf
CUSCHECK	custom check	<pre>mchktmp.dbf (tmp)</pre>
CUSIRS*	custom 1099, 1096 forms	_
CREMITAL	Custom remittance list	Transact.dbf
CREMIT	Custom single check remittance report	Transact.dbf
CPROFITANDLOSS*	Custom profit and loss report	Chartacc.dbf
CGLTRIAL2*	Custom trial balance current and YTD	Chartacc.dbf

# **Inventory Module**

Standard Pa	rtmaster Reports	
AVL	Assigned vendor list	Avldata
BLNKINV	standard disp and pr physical/inventory form	partmast.dbf
BLNKINVW	standard wide carriage physical/inventory frt	partmast.dbf
COSTINV	physical inventory variance report	partmast.dbf
CYCLECNT	cycle count standard form	cyctmp.dbf
CYCLEDIFFCNT	Differential cycle count form	Cyctmp.dbf partmast.dbf
DISPPART	inventory/partmaster find part report	partmast.dbf
PARMOV	partmaster inventory movement report	movement.dbf
PARMOVP	physical inventory, inventory movement report	movement.dbf
PART	uncosted display and print inventory report	partmast.dbf
PART\$	all parts costed (inventory value report)	partmast.dbf
PART\$	all parts costed (all other reports)	partmast.dbf
PARTW	standard uncosted wide inventory report	partmast.dbf
PARUSAGE	partmaster inventory usage report	movement.dbf
PIH	physical inventory history report	pih.dbf
PRICELIS	standard price list report	partmast.dbf
Custom Part	master Reports	
CUSPAR*	custom inventory report	partmast.dbf
CBLNKINV*	custom physical inventory count form	partmast.dbf
CUSPIH*	custom physical inv history report	pih.dbf
CUSTCYC*	custom cycle count form (full or differential)	Cyctmp.dbf
CUSTPHY	custom physical inventory variance report	Partmast.dbf

Note: There is also a link to the Partvend.dbf

### Sales Order/ Work Order Module

SALELOG	narrow carriage and displayed sales report	sales.dbf
SALELOGW	wide carriage sales report	sales.dbf
SOPER	ISO 9000 customer on time delivery report	sales.dbf
SALES_PO	std open SO, PO, & WO report sorted by part number	sopocursor
Standard Sal	es/Shipper Form	
SALE	shaded sales order form	sales.dbf
SALEB	boxed sales and Work Order form WO Includes	sales.dbf
WO_Enhanced	Work Order form, Include Pick List, Routing	Sales+bom.dbf,etc
SHIPPER	shaded shipper form	sales.dbf
SHIPPERB	boxed shipper form	sales.dbf
Custom Work	Order/Sales/Shipper/Traveler Form custom work order and sales order form	sales.dbf
CSHIP*	custom shipper form	sales.dbf
SOFORM1	custom traveler forms	
SOFORM2	automatically printed after a single sales order	
Custom Sales	Order Reports	
CUSSO*	custom sales reports	sales.dbf
CUSTSO*		
Custom Work	Order Reports	
CUSWO* CUSTWO*	custom work order reports	sales.dbf

**Note:** Sales Order reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

#### **Invoice Module**

Standard In	voice Reports	
INVLOG	narrow carriage invoice report	invoice.dbf
INVLOGW	wide carriage invoice report	invoice.dbf
Standard In	voice/Shipper Form	
INVOICE	shaded invoice form	invoice.dbf
INVOICEB	boxed invoice form	invoice.dbf
SHIPPER	shaded shipper form	invoice.dbf
SHIPPERB	boxed shipper form	invoice.dbf
CI	commercial invoice form	Invoice.dbf
Custom Invo	ice Reports	
CUSINV*	custom invoice report	invoice.dbf
Custom Invo	ice/Shipper Form	
CINV*	custom invoice form	invoice.dbf
CSHIP*	custom shipper form	invoice.dbf
CCI*	custom commercial invoice form	invoice.dbf

**Note:** Invoice reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

#### **Shipment Module**

Standard Shipment Reports & Forms		
SHIPMENT	standard shipment report	shipment.dbf
BOL	Bill of Lading (BOL) form	shipment.dbf
Custom Ship	ment Reports & Forms	
CUSSHP*	custom Shipment report	shipment.dbf
CUSTSHP*		
CBOL*	custom Bill of Lading (BOL) form	shipment.dbf

Note: Shipment reports automatically have a relation to the Shipitem.dbf

#### **Receiver Module**

Standard Red	ceive Reports	
RECLOG	narrow carriage receiver report	receive.dbf
RECLOGW	wide carriage receiver report	receive.dbf
Standard Red	ceive Forms	
REC	shaded receiver form	receive.dbf
RECB	boxed receiver form	receive.dbf
Custom Rece.	ive Reports	
CUSTREC*	custom receiver report	receive.dbf
Custom Receive	e Forms	
CREC*	custom receiver forms	receive.dbf

**Note:** Receiver reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

#### **Purchase Module**

Standard Purchase Report		
LGMINREQ	standard min max report	partmast.dbf
LGPARREQ	standard display/print MRP report (Single Bucket)	partmast.dbf
PURLOG	narrow carriage purchase report	purchase.dbf
PURLOGW	wide carriage purchase report	purchase.dbf
VENPER	ISO 9000 vendor performance report	purchase.dbf
		addrbook.dbf
Standard Pu	rchase Form	
PO	shaded PO form	purchase.dbf
POB	boxed PO form	purchase.dbf
PO_SHIP	shaded PO form with shipping address	purchase.dbf
POB_SHIP	boxed PO form with shipping address	purchase.dbf
TC	standard Terms & Conditions form	termcond.dbf
Custom Purc	hase Report	
CUSPO* CUSTPO*	custom purchase order report	purchase.dbf
CUSTMRP	custom min max report	partmast.dbf
CUSTCMRP	custom consolidated MRP (Single Bucket) report	partmast.dbf
Custom Purc	hase Form	
CPO*	custom PO forms	purchase.dbf
CTC	custom Terms & Conditions form	termcond.dbf

**Note:** Purchase Order reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and some to the Addrbook.dbf.

## **Sales Quote Module**

Standard Sa	les Quote Report	
QUOLOG	standard quote report	quote.dbf
Custom Quot	e Report	
CUSTQUO*	custom quote report	quote.dbf
Standard Sa	le Quote Form	
QUOTE	standard shaded sales quote form	quote.dbf
QUOTEB	standard boxed sales quote form	quote.dbf
Custom Quot	e Form	
CQUO*	custom sales quote form	quote.dbf

**Note:** Sales Quote reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

		• • •
MRP2	standard non-consolidated inf bucket MRP report	action.dbf,
		mrppart, mrps
MRP2BUY	standard infinite bucket buy report	action.dbf
		partmast.dbf
MRP2CBPP	standard infinite bucket pre-shortage report	action.dbf,
		mrppart,
		purchase
MRP2CONS	standard consolidated inf bucket MRP report	mrp2cons.dbf
MRP2EXCS	standard infinite bucket excess inventory rpt	exectmp.dbf
		(tmp)
MRPSHRT2	standard infinite bucket issued shortage rpt	tempshrt.dbf
		action.dbf,
		mrppart,mrpso
		routing,
		mrpstock,
PUSHPULL	standard infinite bucket push pull report	avail.dbf,
		mrppart, mrps
WOLOG	standard created Work Order report	salestmp.dbf
WPARREQ	standard wide carriage MRP report	partmast.dbf
Custom MRP	Report	
CUSMRP*	custom MRP report found in infinite bucket	action.dbf
CUSTMRP*		

Note: Most Infinite Bucket MRP "All for a ..." reports use the action.dbf, mrppart.dbf, and mrpso.dbf.

#### **Address Book Module**

Standard Address Book Report			
ADDRESS	standard address book report	addrbook.dbf	
ADDRESSW	standard wide carriage address book report	addrbook.dbf	
Custom Addre	Custom Address Book Report		
CUSADR*	custom address book report	addrbook.dbf	

#### Stockroom Module

AVABOM	standard parts available report	bomtemp.dbf
AVABUY	standard buy report	bomtemp.dbf
BOMBUILD	standard max no of BOMs that can be built	bomlist-cursor
		partmast.dbf
		bom.dbf
CNVSBOM	standard stockroom I transaction report	bomtemp.dbf
ISUSHORT	standard stockroom P and shippable report	stocktra.dbf
	(no custom report is offered for this report)	
MAKEUPWO	standard stockroom P transaction by W/O	stocktra.dbf
SKTRCMFG	standard receive from manufacturing report	stocktra.dbf
STKISSSHRT_PO	Standard stock issued report with POs	stocktra.dbf
STOCKLOG	standard stock room transaction report	stocktra.dbf
SWOLOG	std stock room report subtotaled by sales/work#	stocktra.dbf
SWOINCDEWOLOG	All sub-totaled by SO/WO report - issued to MFG	stkcursor
	only, include dedicated WO	
UNISSUE	standard stock room U transaction report	stocktra.dbf
CNVBOM	Convert Parts to Assys -Version 8.80 and lower	bomtemp.dbf
CNVBOMFORMULBOM	Convert Parts to Assys -Version 8.81 and higher	parmast.dbf

Custom Stockroom Reports		
CUSBMB	custom max no of BOMs that can be built	bomlist-cursor
CUSBOM*	custom parts available report	bomtemp.dbf
CUSMUS*	custom stockroom P transaction report	stocktra.dbf
CUSSTK* CUSTSTK*	custom stock room report	stocktra.dbf
CUSBOM*	custom stockroom I transaction report	bomtemp.dbf

## Sales Analysis Module

Standard Sa	les Analysis Report	
MAKECONM	std consolidated multiple BOM report (no custom)	makecons.dbf
MAKECONS	std consolidated single BOM report (no custom)	makecons.dbf
SANAL	std sales analysis report	sanal.dbf
SANAL2	std sales analysis report sorted by division	sanal.dbf
SANALCS	std cost of sales report	costsale.dbf
Custom Sale:	s Analysis Report	
CUSSANA	custom sales analysis report	sanal.dbf

# Purchase Request/Quote Module

standard Pu	rchase Request Forms/Reports	
REQUESTB	standard boxed PO request form	request.dbf
REQUEST	standard shaded PO request form	request.dbf
PURLOG	standard purchase request report	request.dbf
Standard Pu	rchase Quote Forms/Reports	
POQUOB	standard boxed quote form	request.dbf
POQUO	standard shaded PO quote form	request.dbf
PURLOG	standard purchase quote report	request.dbf
Custom Purc.	hase Request Forms/Reports	
CREQ*	custom PO request form	request.dbf
CUSREQ* CUSTREQ*	custom purchase request/quote report	request.dbf
Custom Purc.	hase Quote Forms/Reports	
CPOQUO*	custom PO quote form	request.dbf
CUSREQ* CUSTREO*	custom purchase quote report	request.dbf

**Note:** Purchase Request/Quote reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

#### Serial/Lot Number Module

Standard Serial/Lot Number Form		
AUDITSN	standard Serial/Lot Audit report form	auditsn.dbf
SNLOG	standard master serial/lot number report	snlot.dbf
SNDLOG	standard detail serial/lot number report	snlotdet.dbf
Custom Seria	al/Lot Number Form	
CAUDITSN	custom Serial/Lot Audit report form	auditsn.dbf
CUSTSN	custom master serial/lot number report	snlot.dbf
CUSTSN(sic!)	Custom detail serial/lot number report	snlotdet.dbf

## **Routing Module**

Standard Routing Report/Form		
ROUTE	standard Routing Module report routing.dbf	
ROUTEW	wide carriage Routing Module report	routing.dbf
ROUTES2	Routing Module Traveler form (no custom avl.)	routechild.dbf
Custom Routing	Report	
CUSTRTR*	custom Routing Module report	routing.dbf
CUSRTR*		

## **Employee Time Tracking Module**

Standard Employ	ee Tracking Forms		
EMPFRM	employee profile form		employee.dbf
EMPLOG	all employee form		employee.dbf
EMPTIMECOST	all Labor cost forms		emptimesh.dbf
EMPTIMESH	all time sheets forms		emptimesh.dbf
Custom Employee	Time Tracking Forms		
CUSEMP*	custom employee report	form	employee.dbf
CUSTIM*	custom time sheet form		emptimesh.dbf

#### **Inspection Module**

Standard Insp	ection Forms/Reports	
INSPIL	standard inspection list report	inspect.dbf
INSPALL	standard all inspection report	inspect.dbf
INSPECT	Standard inspection form	inspect.dbf
Custom Inspec	tion Forms/Reports	
CUSINS*	custom inspection report	inspect.dbf
CINSPECT*	Custom inspection form	inspect.dbf

#### **ECN Module**

Standard ECN Form		
ECN	standard inspection list form	ecn.dbf
Custom ECN	Form	
CECN	custom inspection form	ecn.dbf

#### **QuickBooks Module**

Standard Quick	ooks Export Form
QBEXPORT	standard Invoice/Receiving Export report form
Custom QuickBoo	ks Export Form
CUSQBEX	custom Invoice/Receiving Export report form

#### **Audit Trail Module**

#### Standard Audit Trail Reports

TRAIL	Standard Componen	t Matches report form	temp.dbf
RAILBOMCOST	Standard Componen	t Un-Matched report form	temp.dbf

**Note:** The temp.dbf for the Audit Trail reports contains the following fields: Database, record, item, user, date, time, the\_field, oldcontent, newcontent, partno, descript, & onhand

## **Configuration, Settings & Utilities Reports**

Option 56 (15.1	.56)			
CMPLIST	Standard	Component	Matches report form	matches.dbf
CMPLIST2	Standard	Component	Un-Matched report form	nomatch.dbf

# pc/MRP V9.50

# 15.4.3.1 List of Labels

Note: Custom shipper labels are described in Section 10.1.6 for Invoices and 8.5 for Receivers.

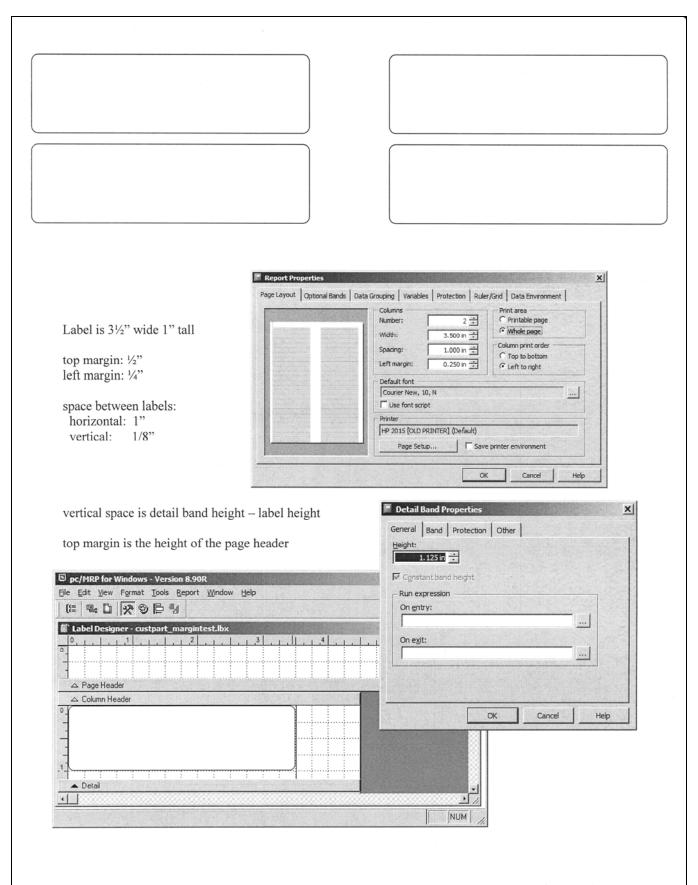
# LABEL(.LBX) LABEL DESCRIPTION

# DBF FILE USED

-	abels (also see Section 5.1.8)	
PARLABBAR	Standard parts labels w/barcode for one part	tmptable.dbf
PARLABEL	std parts labels for all,prod,div,pn dot matrix pr	partmast.dbf
PARLAB2X	std parts labels for all,prod,div,pn laser pr	partmast.dbf
SHIPPER	standard shipper label, see 10.1.6	
Custom Inve	ntory Labels	
CPARLAB	custom parts labels for all parts, prod, pn	partmast.dbf
CUSPAR*	custom parts labels for all parts, prod, pn	partmast.dbf
CUSTPAR*	custom parts labels for all parts, prod, pn	partmast.dbf
BOM Labels		
BOMLB	standard parts labels for an assy dot matrix	bomtemp.dbf
BOMLB2X	standard parts labels for an assy laser pr	bomtemp.dbf
Custom BOM .	Labels	
CUSBOMLB	custom parts labels for an assy	bomtemp.dbf
CUSBOM*	custom parts labels for an assy	bomtemp.dbf
CUSTBOM*	custom parts labels for an assy	bomtemp.dbf
Receiver La	<i>bels</i> Inventory parts labels for a receiver (dot matrix)	receive.dbf
	Inventory parts labels for a receiver (dot matrix) Inventory parts labels for a receiver (laser)	
RECLAB2X		receive.dbf
RECLABBOX	Receiver parts labels for a receiver RoHs Checkbox	labprnt.dbf
RECLABQTY	Receiver parts labels for a receiver showing qty	labprnt.dbf
RECLAB2X	Receiver parts labels	labprnt.dbf
Custom Rece	iver Labels	
CRECLAB	custom label for inventory and receiver module	receive.dbf
CUSREC*	custom label for inventory and receiver module	receive.dbf
CUSTREC*	custom label for inventory and receiver module	receive.dbf
Address Boo	k Labels	
ADDRLBS	standard pin fed address label 15/16x3-1/2	addrbook.db
ADDRLBM	standard mailing address label 4"x2-7/8"	addrbook.db
ADDRLBS2	Standard laser address label 2 across 10 down	addrbook.db
anton Idda	are Dack Takala	
CUSADRXX	ess Book Labels custom address labels	addwhaalt dhf
CUSADRXX	custom address labels	addrbook.dbf addrbook.dbf
CUSIADKĂ	CUSCOM AUGLESS TADELS	auurbook.dbl
Sales/Work	Order Serial Number Labels	1
LBLWO-SN	<pre>Tmptable=copy of partmast w/ModelNo=Serial#) and:</pre>	sales.dbf
		partmast.dbf
Custom Sale	s/Work Order Serial Number Labels	
CUSSNL*	See above for files.	
CUSTSNL*	See above for files.	
Stock Issue	Tabels	
STKLAB	custom stockroom labels	stocktra.dbf
	I	
Custom Stoc.		
CSTKLAB	custom stockroom labels	stocktra.dbf
		stocktra.dbf stocktra.dbf stocktra.dbf

#### 15.4.3.2 Printing Labels

The following sheet could be helpful when trying to arrange labels on a letter size sheet of labels. Print to a piece of paper and hold up to light when checking alignment.



#### 15.4.3.3 Zebra printer settings

pc/MRP can also print out pin fed labels with Zebra printers. We strongly recommend using Avery sheet fed labels and laser printers as the resolution is much higher on laser printers and they are much easier to set up. The following settings have been found to work on Zebra printers we have been called upon to help get printing correctly:

Once you have Configuration, Settings & Utilities, Option 24 open with the label, do the following steps:

- 1. Menu item File, Print, select the Zebra printer
- 2. Menu item File, Page Setup, Print Area to Whole page, printer is Zebra
- 3. Zebra driver Properties, Page Layout, Page Setup, Size to 4x3 & Orientation to Portrait, save all/OK
- 4. Check that the menu item Report, Printer Environment menu item is checked

Please note that you may have a different size label than 4"wide x 3"high and you may also have to adjust the label positioning on the Zebra's roller. You can change the height of the label but leave the width at 4" even if you are using 3" wide labels.

If you are printing out bar codes with a Zebra printer, turn down the resolution of the bar code to match that of the Zebra printer (200 dpi).

#### **15.4.4 Advanced Features**

#### 15.4.4.1 Adding a picture or logo to a report, form, or label for each Partnumber on a report.

- 1. Select Configuration/Settings & Utilities
- 2. Enter your Configuration Code Number.
- 3. Select **Option 24**, click on Run Utility 24.
- 4. Choose either "Form" if you are adding a picture or logo to a form or report or choose "Label" if you are adding it to a label.
- 5. Select the '.frx' or '.lbx' file to modify. In this case, parlab2x.lbx.
- 6. Check the pc/MRP Manual, Section 15.4.2 for the proper prefix of a custom report. In this case, 'cusparlab2x' for example.
- 7. Choose 'File/Save As' and enter and save your new custom report name.
- 8. Click on the **OLE**(Picture/ActiveX Bound Control). Move your cursor to the position you wish to add the picture and draw a box that will contain your picture. A window for Report Picture appears.
- 9. If you are adding a logo or picture that appears in the page header portion of the report or form, select 'Image file name' and click the ellipse button to locate the logo or picture BMP, JPG, or GIF file (skip to #13). If you are adding pictures to the detail line where you might want a different picture for each part, select 'Expression or variable name' and type in the words 'partmast.Image\_File'. This is the field name for the location of the image file for the part in the Part Master database.
- 10. In the section "If source and frame are different sizes", choose "Scale contents, retain shape."
- 11. Press the Print When Button; a 'Print When' form appears.
- 12. In the Print only when expression is true box, Enter Not Empty(FileChk(alltrim(Partmast.Image\_File)))
- 13. Press 'OK', then save the file and exit the Designer.

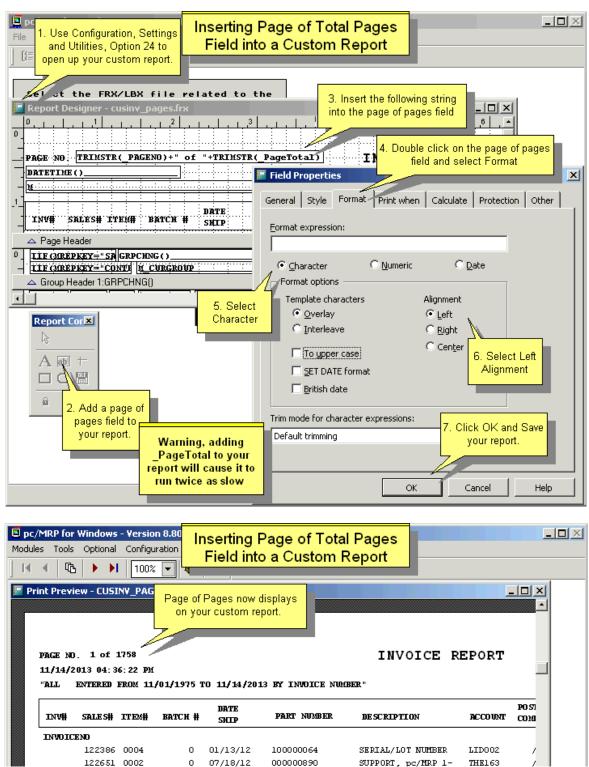
**Note:** If you are changing an **old logo to a new one**, the fastest way is to use Windows Explorer to rename the files. Let's say your forms use an image named logo.jpg. Rename logo.jpg to logo\_old.jpg. Then rename logo\_new.jpg to logo.jpg. You might find that even after the change, the old logo is being displayed. This means the image is still in RAM. Try to exit and re-start pc/MRP, if that doesn't help, reboot your computer.

The new report/form/label is available in the drop-down area when you choose Form: Custom.

**Note:** If you added a logo to your labels, and you are printing only a few labels (e.g. starting from label #5) of a sheet of labels, you might find that all previous label positions (with the actual label already used up earlier) would be printed with the logo. To avoid this, go back to where you added the label. Edit the label, and on the "Print when" tab, under Print only when the expression is true, type the following: !EMPTY(PARTNO)

#### 15.4.4.2 Inserting a "Page of Total Pages" Field into a Custom Report

To print the number of total pages (e.g. Page 2 of 6), the report has to run twice. At the first time, it simply figures out the number of pages, the second time it actually prints the report. This means if you want to see the number of total pages on your report (**\_PageTotal**) your report will take twice the time of the standard report.





Addresses in the Purchase, Receive, Sales, and Invoice forms (not reports) are stored in a long single memory variable. For example, "MVENDOR1" in the PO form has the following layout:

SUBSTR(MVENDOR1,42,41) = CONTACT NAME SUBSTR(MVENDOR1,83,41) = STREET ADDRESS 1 SUBSTR(MVENDOR1,124,41) = STREET ADDRESS 2 SUBSTR(MVENDOR1,165,30) = VENDOR CITY SUBSTR(MVENDOR1,195,20) = VENDOR STATE SUBSTR(MVENDOR1,215,10) = ZIP SUBSTR(MVENDOR1,225,30) = COUNTRY

Therefore, the ZIP code is located 215 characters into the variable for a length of 10.

**Note:** In Excel the formula is: =MID(ZIP,215,10)

#### 15.4.4.4 Adding Bar Code Fonts to Custom Labels, Forms, and Reports

See Section 16.4.1 in this Manual.

#### 15.4.4.5 Setting an additional filter when printing/displaying a report

The following modifications should only be made by a person who is familiar with dBase and FoxPro commands.

#### The new filter replaces the old filter

If you wish to use your own filter and <u>ignore the existing filter</u>, you could use the Set Filter To command. Let's say you want to filter a Purchase report by a specific buyer (Anna). This information is stored in the OrderBy field.

~IN~ Set Filter To (Upper(OrderBy) = "ANNA")

#### The additional filter is built is into the report

The AddFilter() function provides a mechanism whereby a filter expression can be applied to a table <u>without</u> <u>interfering</u> with another filter that may already be applied to the table.

Let's say you wish to add a filter to an existing Purchase report that is currently filtered by Related Document Number, and you want it to be filtered by a specific buyer (Anna). This information is stored in the OrderBy field.

~IN~ AddFilter("Upper(OrderBy) = 'ANNA'", "PURCHASE", "AND") where "Upper(OrderBy) = 'ANNA'" is the added filter condition, "PURCHASE" is the database file "AND" is the join condition.

#### 15.4.4.6 The report prompts the user for the additional filter

This section explains how to get a custom report to <u>prompt for an additional filter</u> condition. For example, a user may wish to have a custom bill of materials report that lists only part numbers that start with the prefix "33-". To make the modifications follow the steps listed below:

Users can use numeric and or logical fields not just text fields. When you run the report, you will be prompted for the default filters for text, numeric, date, or logical fields as shown below unless the last parameter is other than a '1', the default.

If the filter is a text field:

- 1. contains (DEFAULT)
- 2. does not contain
- 3. start with
- 4. is equal to
- 5. is not equal to

If the filter is a numeric or date field:

- 1. not equal to (DEFAULT)
- 2. less than
- 3. less than or equal to
- 4. equal to
- 5. greater than or equal to
- 6. greater than

If the filter is a logical field:

- 1. All (DEFAULT)
- 2. No (false, unchecked)
- 3. Yes (true, checked)

To set the defaults, users can add a default value and operator. For example users could enter:

DO APNDFIL WITH "DESCRIPT", "Enter a Description", "BEARING", 1

When the report is printed pc/MRP will pop up a window asking the user to enter a description with a default entry of BEARING and the default filter value of 1 (contains).

Depending upon the data type, one of the following pop-ups is presented:

For text fields:

Additional Filter Condition	Additional Filter Condition
Inter a description:	Enter a description:
Field Contains	Field Contains
Bearing	Does not Contain
<u>O</u> K <u>C</u> ancel	Starts with is Equal to is Not equal to

# For logical fields:

Additio	nal Filter (	Condition
<b>X</b> O	Obsolete	parts?
	All	•
_	All	
(	<u>D</u> K No Yes	<u>C</u> ancel

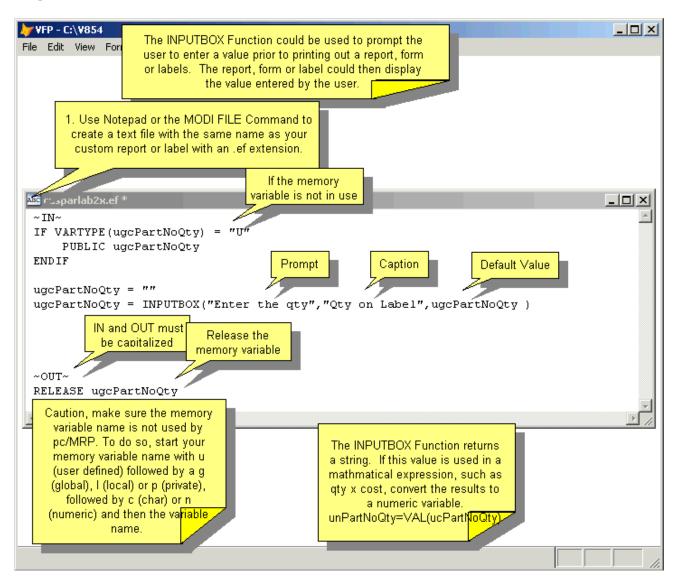
For numeric or date fields:

Additional	Filter Condition	Additional Filter Condition
X O	Enter average cost:	Enter average cost:
Field is	Not equal to	Field is Not equal to Not equal to
	0.0000	Less than Less than or equal to
	<u>O</u> K <u>C</u> ancel	Equal to Greater than or equal to Greater than

Ŧ

#### 15.4.4.7 Prompting the user for input

You may also create an '.EF' file to ask the user to enter data (while printing labels as an example). Here is sample code to refer to:



**Note:** Please do not use MS Word to create '.EF' files as Word will use curly/angled quotes that the Visual FoxPro report writer does not like. If you still wish to use MS Word:

- 1. On the Tools menu, click AutoCorrect Options, and then click the AutoFormat As You Type tab.
- 2. Under Replace as you type, select or clear the "Straight quotes" with "smart quotes" check box.

**Note:** You can find and replace all instances of single or double curly quotes with straight quotes in your document. To do this, clear the "Straight quotes" with "smart quotes" check box on the 'AutoFormat As You Type' tab. On the Edit menu, click Replace. In both the Find what and Replace with boxes, type ' or ", and then click Find Next or Replace All.

#### 15.4.4.8 Opening an additional related database file when printing/displaying a report

The following modifications should only be made by a person who is familiar with dBase and FoxPro commands.

This section explains how to open up another related database file when running a report for the purpose of printing out data from the original database file and the related database file. For example, a user may wish to have a custom sales order report print/display the drawing number for each sales order listed in the report. The drawing number is not in the sales.dbf, so the user must modify pc/MRP such that the partmast.dbf file is open and related to the sales.dbf file whenever that report is run. To make the modifications follow the steps listed below:

For Sales Order, Sales Quote, Invoice, Purchase, Purchase Quote, and Receiver reports, pc/MRP automatically sets a relation to the PARTMAST and ADDRBOOK database files. As such, you would simply add a field to the custom report with the name of the table (database file) as a prefix e.g. 'partmast.drawingno' or 'addrbook.resale'.

For all other reports or DBF files, you must use Window's Notepad program to create an ASCII text file with the same name as the custom report you plan on running, with the extension of ".ef". For example if you had a custom sales report named "CUSTSO1.FRX" and wanted to include data from another data base besides sales.dbf you would use Notepad to create a new file in the pcmrpw directory named "CUSTSO1.EF"

Enter the following dbase/FoxPro commands into the "CUSTSO1.EF" file. The first command, **~IN~**, tells pc/MRP to follow this set of commands before starting to print the report. The second command, THISAREA=SELECT(), stores the name of the first database file in a memory variable named THISAREA. The third through fifth commands then set relation between the two files. The last command, GO TOP, makes sure the original dbf file (in this case, sales.dbf) is initialized and ready to begin printing. **~OUT~**, begins the instruction set pc/MRP will follow after it has finished printing the report. The remaining commands after the ~OUT~ command, simply close the related dbf file and select the original dbf file as the primary dbf file.

**Note:** If you need these modifications for an .EFX file, do not create an .EF file, but enter these commands into the ~IN~ section of the .EFX file.

~IN~ THISAREA = SELECT () USE PartMast ORDER ByPartNo IN 0 SELECT (THISAREA) SET RELATION TO UPPER(LEFT(PartNo,MpnSize)) INTO PartMast ADDITIVE GO TOP &&& (in some cases, "GOSAFE(RecNo())" will be needed)

~OUT~ USE IN SELECT("PartMast")

The above commands work for any DBF file (not just the partmast).

If you need to set a relation to the address book ("addrbook") or partmaster file ("partmast"), or ("both"), the following example code will work as well:

~IN~ RELATE("partmast") ~OUT~ USE IN SELECT("partmast")

Save the file as the report/form/label name appended with ".ef" (no quotes), e.g. "CUSTSO1.EF", in the pcmrpw directory.

Finally, one would modify the custom report (in this case, CUSTSO1.FRX), adding the fields from the related dbf file to the report (in this case, PARTMAST.DRAWINGNO). Please note, that you must preface the fields from the related dbf file with the name of the related dbf file followed by a period and the name of the field.

When viewing any report you can view the open tables by pressing CTRL-F12. This will open a TXT file with all of the open tables in the "select area" statement. By example: "Select area: 1, Table in Use: C:\MY DOCUMENTS\PCMRPTEST\PCMRPW870\PARTMAST.DBF Alias: PARTMAST" This means the Partmast.dbf is open when running this report.

#### 15.4.4.9 Code based HTML Files

Code based HTML forms can only be modified by personnel at Software Arts. Software Arts can send you a custom fxp file containing your modifications.

Modules	<u>Std Fxp File</u>	<u>Custom fxp</u>
Sales/Sales Quote/Work Order	EMSO.FXP	CEMSO.FXP
Purchases	EMPO.FXP	CEMPO.FXP
Receivers	EMREC.FXP	CEMREC.FXP
Purchase request	EMREQ.FXP	CEMREQ.FXP
Invoices	EMINV.FXP	CEMINV.FXP

The custom fxp files would be copied into the main pcmrpw directory.

#### 15.4.4.10 Adding a logical field (e.g. the RoHS information) to a report, form, or label.

The RoHS field is a logical field in the inventory database on the Misc. tab. To use in a report, form, or label, the field must be added to the report detail band and the header description band. The detail band field is defined as follows:

IIF (ROHS, "YES", "NO") Or for a one character field, use "Y", "N".

#### **15.4.4.11 Custom Comments**

See an online slideshow here: http://www.pcmrp.com/mrp101/commentscustomoverview.htm

pc/MRP allows users to print out specific comments based on the situation the custom sales orders, work orders, shippers, invoices, purchase orders, etc. are going to be used for. The example shown here is for sales orders but this feature could be used for other forms as well.

Users can enter specific comments between tags for the sales order. For example, Comments related to building the product could be contained within <Build> and </Build> Tags. Users can select any tag name, but the name for a certain purpose has to be the same in all sales orders.

Now users can create a custom sales order form for Building. This form could be named CsoBuild.frx. Change the Expression of the Comments field to ExtractTags(Comment,"build"). This custom form will only display the comment between the build tags. It will not display any comments between other tags or without tags.

If users still wish to use the standard sales order form in addition to the custom form(s), they should create a custom form (could be named Cso.frx) that will display the standard comments only. On this form, change the Expression of the Comments field to RedactTags(Comment,"build, ship") where all tags used on any sales orders are listed. If users enter tagged comments into the Inventory General Info field, they need to use RedactTags on all other forms that display the comment.

Note: This feature was not available for versions **8.80E** and below.

File Edit View Tools Window	mments Custom ing Build Comme		×
Image: second constraints         Im		], , , , <sup>5</sup> , , , , , , , , , , , , , , , , , , ,	×
<u>SHIP VIA: ' + SHIPVIA</u>	'TERMS: '+TERMS	ACCT: '+ACCOUNTNO	
4 ITEM PARTNO DESCRIPT	Field Properties		×
A Page Header      TITEMN[ PARTNO DESCRIPT     IIF (MMODEL='M'-,MODELWO, SERIAL]      ExtractTags (Comment, "build")      A Detail      Page Fonter      Report      Report      TR(MINVBPS,1,4b)      TR(MINVBPS,139,46)      R(MINVBPS,139,46)      Summary      Summary      A Summary	Expression: ExtractTags(Comment, "bu uch as CSOBuild.frx. nd enter:	to top of band	
		OK Cancel Help	

Image: Pile Edit View Tools Windows - Viel       Custom Comments Custom Sales Order Containing Standard Comments Only         Image:	
Image: Contract of the second seco	_ <b>_ X</b>
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ITEM     PARTNO     DESCI     Field Properties	×
▲ Page Header       General       Style       Format       Print when       Calculate       Protection       Other         ● ITTEMN0       PARTNO       DESCRI       Expression:       Expression:       RedactTags(Comment, "build, ship")          ● Detail       Object position       Object position       Object position       op of band         ● Page Footer       Object consistion       Object position       op of band         ● Detail       Object position       Stable option       Stable option         ● Page Footer       Object position       op of band         ● Duble click on the Comments line and enter:       RecactTags(Comment, "build, ship")       point of band         ■ SubstractIntract(Introper, 1, 1, 30)       Size and position in layout       Height:         Substract(Introper, 139, 46)       Size and position in layout       Height:         ■ Summary       0.031 in =       3.885 in =	

#### 15.4.4.12 Special Invoice form: When Taxed Amount is Taxed

When you need to add different types of taxes (State Tax + Local Tax), the base amount for these taxes is the Subtotal Sale Price. Set the different tax rates in the Accounting module; see Chapter 14.1.12 in this Manual.

In special cases a second tax will be applied to the already taxed amount. In this case you can use the work around below.

Let's name the different tax types Tax1 and Tax2. Please note that you will need to calculate Tax1 manually. Only Tax2 will be calculated automatically (and applied to the total of the Sale Subtotal and Tax1), as pc/MRP is designed to base all taxes on the Sales Subtotal. The goal is that your invoice form's look complies with your Customer's or Tax Agency's requirements.

Add a new line item to your invoice, and change the line item number to 9999. Enter part number NA. Description can be anything. Calculate Tax1 on the Total, and enter it as sales price for line item 9999.

pc/MRP for Windows - Version 9.00Q Modules Tools Optional Configuration Manual	<u>_   ×</u>
Sales Order (Edit Mode - Multiple Item)	×
SOMO #         000025         Change #         0         Document Currency           Order Date         04/18/2016         Sales Type         Order Entry         BASE CURRENCY         Image: Control of the second se	Back
Customer Billing / Shipping Delivery Item Info Accounting Info	Next
Root Address Lookup Account # ALA001	<u>I</u> tems/Notes
Customer Alaska Cyclery Addr Type CUS	🥜 Links
Attention Mary June Terms	
Street 23 Church Street Credit Card [None]	Add Item
Customer PO# 0328	
City Fairbanks Contact	Clone
State / Zip AK 99706 Related Doc #	Brea <u>k</u> down
Termory	Delete
Phone / FAX Region	
e-Mail Entered By	Options
Item Part Number Rev Description Part Lookup Model Number	
9999 NA Tax1 5% = \$5	Logbook
Quantity Unit Sale Price Tax % Freight Disc % Req Ship Date Req Arrival Date	Create Part
1.000 5.000000 10.000 0.00 0.00 06/23/2016 % / / Displayed Currency PASE CURPENCY Division Complete Serial Number	Create Address
Comments Displayed Currency BASE CURRENCY  Division Complete Serial Number N	
A Hold Location	Finished
Tax Type Taxable	
Confirmed //	Cancel

Use Configuration, Settings & Utilities, Option 24 (as described in Section 15.4.1 above) to edit the standard invoice form and save it with a custom name.

In the Detail section for every single

item you need to add the following Print when condition: itemno<>"9999" (If there is already a Print when condition present, add AND itemno<>"9999" instead). Also check "Remove line if blank".

Modify the Total section as below (you can change the label texts as needed).

Field Properties
General Style Format Print when Calculate Protection Other
Print repeated values I ⊻es C №o
Also print
☐ In first whole band of a new page/column
When this data group expression changes:
When band content overflows to new page/column
Remove line if blank
Print only when expression is true:
upper(right(itemno,2)) <> "CM" AND itemno<>"9999"
OK Cancel Help

4	ITEM	PARTNC	QTYORI	QTYSHIP	BKORE UNIT	PRICE	PRICE
	🛆 Page H	eader					
0	UF (MMO	DEL='M',MODELNO,SERIA MMENT	L) STRORIG		UNIT CE(10-LEN(ALLTI RO	STRCOST STREX	
_	▲ Page Fo	poter					
0	NOTE5:	SUBSTR(MINVBP,1,44 SUBSTR(MINVBP,47, SUBSTR(MINVBP,33, SUBSTR(MINVBP,133 SUBSTR(MINVBP,135 SUBSTR(MINVBP,185 SUBSTR(MINVBP5,1,2 SUBSTR(MINVBP5,13 SUBSTR(MINVBP5,13	46) 46) 46) 46) 46) 46) 46) 46)			L WITH TAX1 METOT : ' METAXTO HT: ' MEFRITO L: ' MDUE PPER(COMPLE MDUE - M	SCTOT
	🛆 Summar	у					

This is how the printed invoice looks like:

ITEM	PARTNO	QTYORD	QTYSHIP	BKORD	UNIT P	RICE TOTAL PRICE
0001	BIC-W-1108	Bicycle, Women's, 1108 1	1	0	1	00.00 100.00
NOTES	š:				SUBTOTAL:	100.00
					TAX1:	5.00
				SU	JBTOTAL WITH TAX 1:	105.00
					TAX2:	10.50
					TOTAL:	115.50
	TOTALS FOR INVOICE 9852			5 FOR INVOICE 985252		

#### **15.4.5** Troubleshooting

#### 15.4.5.1 Converting custom 16-bit report forms to 32-bit report forms

Installing an update to a 32-bit version of pc/MRP will copy in all new 32-bit standard report forms. Starting pc/MRP for the first time after installing the update will convert all non 32-bit reports, Custom and Standard, to 32-bit.

To individually convert a 16-bit report to 32-bit, open the command line and enter: CONVERTFORM("filename.frx")

You could also enter:	
CONVERTFORM()	- it will allow you to scroll and select the report to be repaired.

#### 15.4.5.2 Clearing the save environment feature on FoxPro for Windows reports

FoxPro for Windows reports save the name of the dbf files that were open when the report was created or last run. This feature can inhibit customizing the report if several dbf files were open when the report was last run or created. If several data base files were open at the time, the report may pick the wrong dbf file to open when you try to view your modifications. To turn off the "save environment" feature, open up the report using the modify report command in FoxPro's command window and follow the steps listed below:

- 1. Click on report
- 2. Click on page layout
- 3. Click on data environment
- 4. Click on clear
- 5. Click on ok
- 6. Click on file
- 7. Click on save

Reopen the report and repeat the above process, if you were successful you will see the environments clear and restore buttons are now disabled. Go ahead and click on cancel. Now you will have to enter the related dbf file manually prior to modifying the report, however it will be the correct dbf file.

#### 15.4.5.3 Clearing printer codes from all forms and labels.

Running 'frxhpfix\_all()' from the pc/MRP command line removes printer codes from all forms and reports that were accidently saved with the form or report.

#### 15.4.5.4 Set Enginebehavior

The Visual FoxPro 'Select' command does not operate as a 'pure' SQL command. If the results are not what you expected and:

If an '.EF' file contains a select command with a GROUP BY or ORDER BY clause, it's behavior will vary depending upon the SET ENGINEBEHAVIOR setting. It is important to reset the enginebehavior if you change it. Add the following code to the '.EF' file or create the text file with the 'custom\_report\_name.EF'.

~IN~ PUBLIC InOldEngine InOldEngine = SET("enginebehavior") SET ENGINEBEHAVIOR 70 && could use 80 or 90

~OUT~ SET ENGINEBEHAVIOR InOldEngine RELEASE InOldEngine

#### **PROGRAMMING Note:**

The scope of SET ENGINEBEHAVIOR is global.

Using SET ENGINEBEHAVIOR set to 70 might lead to ambiguous results from SQL SELECT commands when the DISTINCT and UNION clauses are used with memos and the GROUP BY clause, the HAVING clause without a GROUP BY clause, and when using the LIKE clause.

When SET ENGINEBEHAVIOR is set to 70 or 80, results from the TOP clause in the SQL SELECT command can include more than nExpr records when rows with identical values for columns specified by the ORDER BY clause exist. For example, suppose you specified 10 rows for nExpr. If more than 10 rows with identical values exist in the columns specified in the ORDER BY clause, the query result might contain more than 10 rows.

#### 15.4.5.5 Creating a custom report and printing to a specific printer (usually for a check printer).

Please see the MRP101 slideshow for a more detailed look at report customization:

http://www.pcmrp.com/mrp101/customtableofcontents.htm

The following screen shots will demonstrate how to set this up.

pc/MRP for Windows - Version 8.50AD	
File Edit View Format Tools Report Window Help	Setting a default printer for a form, report or
[ 🔚 🖳 🧏 🧐 📙 🖣 🌌 Quick Report	check (usually only done for checks).
Report Designer - custpow	
Print Preview	4
0Load Data Environment	
PAGE NO PAGE Private Data Session	IIF (MTYPE="REQ"; "PO
Printer Environment	
	BA ACCT#: COST ORDI
Variables	
A Default Eont	To configure a custom report to default to a
0 MREPKEY MCCURGROUP Edit Bands	specified printer instead of the default printer, select Report and Printer Enviroment. This will
Group Header 1:GRPCHNG( Insert ⊆ontrol	leave a check by the Printer Enviroment Menu
p <u>ono:</u> ITEMN <u>LiEFT (d1</u> )     Properties	Option. Note: it is usually better to not set the
	printer inviroment in a form and allow the user to select a printer or use the default printer
Report Cor S GRPCHNG()	-
( Kepore const	
A ab +	
<b>A</b>	
Cause Man printer any incorporate	
Save the printer environment	

pc/MRP for Windows - Version 8.50AD	
File Edit View Format Tools Report Window Help	
Close Ctrl+F4	
Save       Ctrl+S         Save As         Save As         Save As         Save As         Save As         Save As         Page Setup         Print. Preview         Print         Ctrl+P         Select File and Page Setup         PART. NUMBER         ACCT#:         Cost         OKD         Arge Header	
△ Group Header 1:GRPCHNG()	
Detail       Subtotal:       ONORDER	
Changes the page layout and printer settings	

# And finally:

	<u> </u>
File Edit View Format Tools Report Window Help	
時 🖷 🗎 🛠 🍩 📮 😼	
Report Designer - custpowithrey.frx	
Page Setup	
PAGE NO: PAGE :	
1 Page Page OKAD	
△ Page Header	
△ Group Header 1:GRPC	
0 ponci ITEMN LEFT Paper	
Detail Size:	
Report Cor≭ GRPCH	
Crientation Margins (inches)	
A labit + Potrait Left: 1 Right 1	
O 📰 C Landscape Top: 1 Bottom 1	
OK Cancel Printer	
	_
Click on the Printer Buttor	n 📄
and select the printer to be	e
used for this form.	

#### 15.4.5.6 Barcode problems

If the form or label contains a barcode and you get a proutput.fxp invalid path or file name error, the user may have deleted the barfonts sub-directory underneath the PCMRPW folder.

#### 15.4.5.7 Auto Attach documents to purchase order, invoices, sales orders, etc.

The .EF file would contain code such as:

~IN~

```
IF INLIST(MPrntDisp, 3, 4)
```

 $lcAttachedFileList = lcAttachedFileList + "|PDF Folder \land ttachment1.pdf| Logos Folder \land ttachment2.png" ENDIF$ 

OR

```
~IN~
IF INLIST(MPrntDisp, 3, 4)
lcAttachedFileList = lcAttachedFileList + "PDF Folder\Attachment1.pdf"
lcAttachedFileList = lcAttachedFileList + "Logos Folder\Attachment2.png"
ENDIF
```

# 15.5 Exporting Raw Data out of pc-MRP

#### 15.5.1 Overview

pc/MRP uses Visual FoxPro 9 database files. There are not many import programs that offer the option to import Visual FoxPro 9 data base files. Therefore, this chapter will outline how to export pc/MRP's data into more widely used formats such as Excel (XLS), ASCII (txt) or dBase III formats.

The following sections will cover several ways to export raw data out of pc/MRP. Finally, we will address a few rules to follow. An online slideshow is located here: <u>http://www.pcmrp.com/mrp101/exportfilesmodules.htm</u>

#### 15.5.2 Using Option 23 to extract all data from a table of pc/MRP into XLS, ASCII, or dBase III format

First select Configuration, Settings and Utilities, and set **Option 86** to dBase III file format. Next use **Option 23** to extract the data from pc/MRP into Excel (XLS), Comma Delimited (TXT) or Data Table (dBase III DBF). Click on the ... button to choose your file. Enter a name for your new file, click Save. Select the fields you wish to include and click OK.

#### 15.5.3 Using a pc/MRP report to extract a subset of data from pc/MRP into XLS, ASCII, or dBase III format

First set Configuration, Settings and Utilities, and set **Option 86** to dBase III file format. Next click on Modules, select the module (purchasing, sales, parts, BOMs, etc). Select Reports, select the sort and conditions (all open, all in a date range, etc.). Send the report to ASCII, Excel or DBF. Enter a name for your new file. Select the fields you wish to include.

#### 15.5.4 Extracting pc/MRP data using Microsoft's VFP ODBC

An online slideshow located at: <u>http://www.pcmrp.com/mrp101/odbcopeninternetexplorer.htm</u> demonstrates how to install Microsoft's VFP Driver. After that, you can use any language you prefer to establish a connection to the ODBC file and extract subsets of pc/MRP data with select statements.

#### **15.5.5 Sending Reports to Excel**

pc/MRP offers to send most reports to Excel. All fields can be exported, as long as the computer that runs pc/MRP has Excel installed. (If pc/MRP is run on a terminal server, Excel has to be installed on the terminal server.) If Excel is not available on the computer, pc/MRP does not offer the memo type fields (like the general info in inventory, the reference designators in the BOM table, the tracking number and comments in the invoice table, etc.).

**Note:** Sending memo fields into Excel significantly slows down the process. Do not include memo type fields, unless you need them. Versions **8.80C**, **8.81D** and above default to not include memo fields.

The same is true for Configuration, Settings and Utilities, **Option 23**. This utility allows users to create an ASCII text file copy of any of pc/MRP's database files. The original database files will not be changed. pc/MRP will create either an Excel file (.XLS), a dBaseIII or Visual FoxPro file (.DBF), or a comma delimited ASCII text file (.TXT). Users can select which fields they want to include. **Note:** The .TXT file will have a set of quote marks ("") around every value. See Section 15.11.1 about how to prepare a file for being imported into pc/MRP. See the previous paragraph about memo fields.

# **15.6 Creating Practice and What If Directories**

Test copies allow users to do a number of things. New employees just getting familiar with pc/MRP will have a chance to practice entering parts, POs, accounting transactions, etc. without doing any harm to the production copy. Users can try rarely used features of pc/MRP (like merging addresses), and get familiar with new features when a new version of pc/MRP is released, without making any changes in the real copy. Also, it is often easier to see the results of your action if there are only a few (test) records in your database tables. Other times, you will prefer to use (a snapshot copy of) your real data for testing.

#### 15.6.1 Generating a What If or Practice Directory for pc/MRP

What If or Practice directories are easily generated by copying pc/MRP into a different location on a local computer or server. To do this simply copy and paste the entire PCMRPW folder into an alternate location.

- 1. Find where pc/MRP currently resides (select Configuration, About pc/MRP, and click Ctrl-E)
- 2. Highlight the pcmrpw folder
- 3. Press CTRL-C to copy the pcmrpw folder
- 4. Find the desired folder/drive and double click on that folder/drive
- 5. Press CTRL-V to paste the pcmrpw folder into the alternate folder

Users can now start the practice copy by double clicking the pcmrpw.exe found within the alternate folder.

To create a shortcut, right-click on the pcmrpw.exe file. Select Send To, then Desktop.

Note: Users must be certain to not confuse themselves with the REAL copy vs. the TEST copy.

For this reason, you should modify the background of the pc/MRP logo by doing the following:

- 1. <u>In the test copy</u>, go to Configuration, Settings & Utilities, Option 1
- 2. Change the Division/Dept line to the word 'PRACTICE'
- 3. Save your changes.
- 4. Exit the program, then run it again.

You now have a red background for the pc/MRP logo and a warning underneath. Also change the label of the icon to e.g. pc-MRP TEST.

A test copy is often called a practice copy or a sandbox copy.

You might want to create a practice copy just for yourself – in this case you would copy the pcmrpw folder to your own C: $\$ . If you want that all users can access the same practice copy, you could place it on the server, right next to the production folder.

Please make sure that you have your company's permission to create a practice copy.

# **15.7 Windows Server Administration**

#### 15.7.1 Viewing users who are logged on

The following steps will allow you to view who is logged on to the server:

- 1. Click on the start button
- 2. Select Programs
- 3. Select Administrative Tools
- 4. Select Server Manager
- 5. Double click on the server you want to view
- 6. Select Users

#### 15.7.2 Viewing users and the files they are using

The following steps will allow you to view a list of files is use:

- 1. Click on the Start button
- 2. Select Control Panel
- 3. Select Administrative Tools
- 4. Select Computer Management
- 5. Select System Tools
- 6. Select Shared Folders
- 7. Select Sessions
- 8. Select Open Files

#### 15.7.3 Monitoring network performance

The following steps will allow you to monitor the network traffic and performance:

- 1. Click on the start button
- 2. Select Programs
- 3. Select Administrative Tools
- 4. Select Network Monitor

Watch the % Network Utilization bar chart. Readings of 35% or less are good. Readings of 60% or more would indicate problems.

#### 15.7.4 Monitoring CPU and memory performance

The following steps will allow you to monitor the CPU and memory performance: Right click in the open space of the Start bar, then:

- 1. Select Task Manager
- 2. Select Performance

#### 15.7.5 Protecting pc/MRP database files on a Windows 2000 Server

# 15.7.5.1 The following commands will prevent users from deleting key pc/MRP database files through Windows Explorer.

Set up pcMrpUsers and pcMrpSupervisors user groups as below:

- 1. Click the **Start** button.
- 2. Select Settings, Control Panel, Administrative tools, and Computer Management.
- 3. Under the System Tools, expand the Local Users and Groups
- 4. Right click on the Groups folder and select the New Group ...
- 5. Enter "pcMrpUsers" for Group Name and "Mrp users without deletion rights" for Description.
- 6. Click the **Create** button to save the pcMrpUsers.
- 7. Enter the group name of the second group: "pcMrpSupervisors" and "pc/Mrp users with deletion rights to pc/Mrp database tables" for **Description**.
- 8. Click the **Create** button to save the pcMrpSupervisors.
- 9. Click Close.
- 10. Double click on the pcMrpUsers and add users into the group.
- 11. Double click on the pcMrpSupervisors and add users into the group.

# 15.7.5.2 Set up PCMRPW folder access permissions for pcMrpUsers group, pcMrpSupervisors group, and administrator.

- 1. Start window's explorer
- 2. Right click on the PCMRPW folder and select Properties.
- 3. Select the **Security** tab.
- 4. Uncheck the Allow inheritable permissions from parent to propagate to this object.
- 5. Remove **Everyone** group.
- 6. Add pcMrpSupervisors, pcMrpUsers, and administrator.
- 7. Select administrator, check the allow check box for Full Control, Modify, Read & Execute, List Folder Contents, Read, and Write.
- 8. Select pcMrpSupervisors, check the allow check box for Full Control, Modify, Read & Execute, List Folder Contents, Read, and Write.
- 9. Select pcMrpUsers, check the allow check box for **Modify**, **Read** & **Execute**, **List Folder Contents**, **Read**, and **Write**.
- 10. Click on the Advanced button, click the Add button to add pcMrpUsers group.
- 11. Select "this folder Only" for the Apply Onto, and check the deny check box for the Delete permission.
- 12. Click on the Add button to add pcMrpUsers group.
- 13. Select "this folder, subfolders and file" for the Apply Onto, and check the deny check box for the Change Permission.
- 14. Click Ok.
- 15. Click Apply.

#### 15.7.5.3 Set up permissions for the following database files.

- 1. Double click on the **PCMRPW** folder.
- 2. Right click on the partmast.dbf and select properties.
- 3. Select the Security tab.
- 4. Check the allow inheritable permissions from parent to propagate to this object
- 5. Click on the Advanced button.
- 6. Click on the **Add** button and select pcMrpUsers.
- 7. Click on the deny check box for the Delete permission.

#### 15.7.6 Clear, Delete and Refresh ARP Cache Entry

ARP (Address Resolution Protocol is the standard method for finding a host's hardware address when only its network layer address is known. In other word, in IPv4 and Ethernet network environment, Windows operating system uses ARP to translate IP addresses to Ethernet MAC addresses. However, Microsoft Windows ARP cache will occasionally become corrupt and need to be cleared and deleted so that the cache can be refreshed.

http://www.windowsnetworking.com/kbase/WindowsTips/Windows2003/AdminTips/Miscellaneous/Clearingthe ARPCache.html

The Address Resolution Protocol (ARP) is very crucial for TCP/IP network communication. If you begin to notice network connectivity problems such as particular web pages not loading or not being able to ping certain IP addresses then clearing your ARP cache is a good place to start.

You can view your workstations ARP table by typing "arp -a" from a command prompt. Deleting the ARP cache is just as simple and can be done from a command prompt by typing "netsh interface ip delete arpcache".

# **15.9 Special Cases**

#### 15.9.1 Non-Stocking Manufacturing Reps

When the customer places an order:

- Enter a PO to manufacturing (your cost)
- Enter a sales order to you customer (your cost plus commission)

When manufacturing ships to the customer

- Enter a false receiver from the manufacturing
- Enter a false invoice to the customer

When manufacturing sends commission check

Enter general ledger transact, debit Checking credit Business Income

When the salesman is paid

Enter a general ledger transact, debiting sales commissions and crediting checking

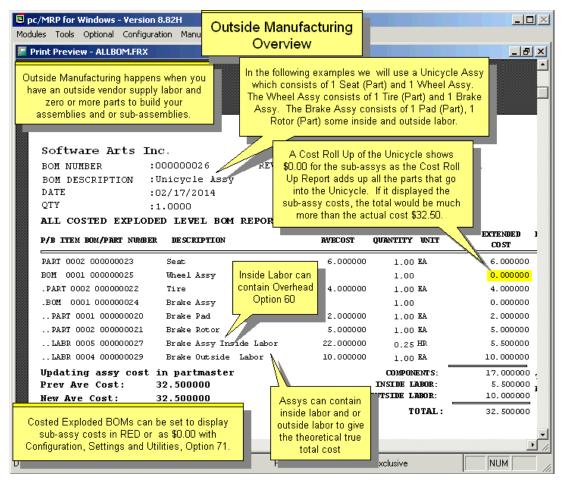
#### 15.9.2 Outside Manufacturing

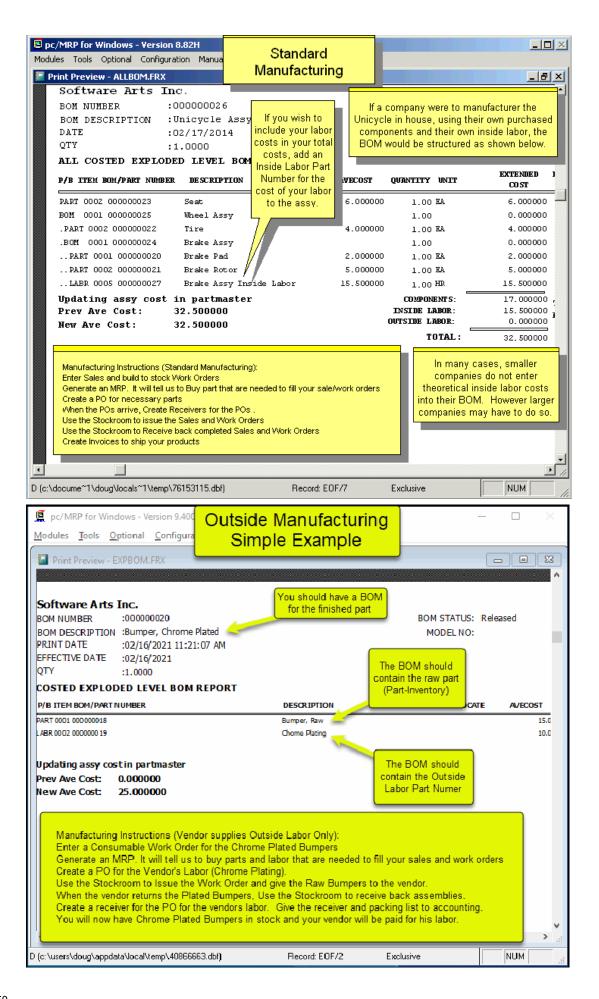
The following slides explain how to handle situations where an outside vendor provides labor or labor and parts. The illustrations go step by step from simple to more complicated situations.

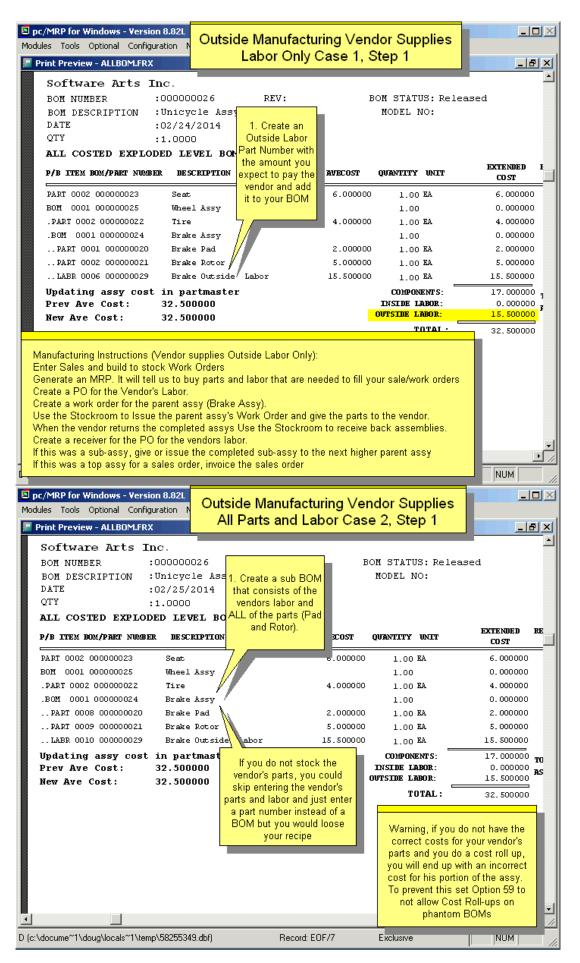
The first slide is an overview. Then as a comparison standard manufacturing is discussed (when everything is built in house).

Outside Manufacturing is discussed in three different cases:

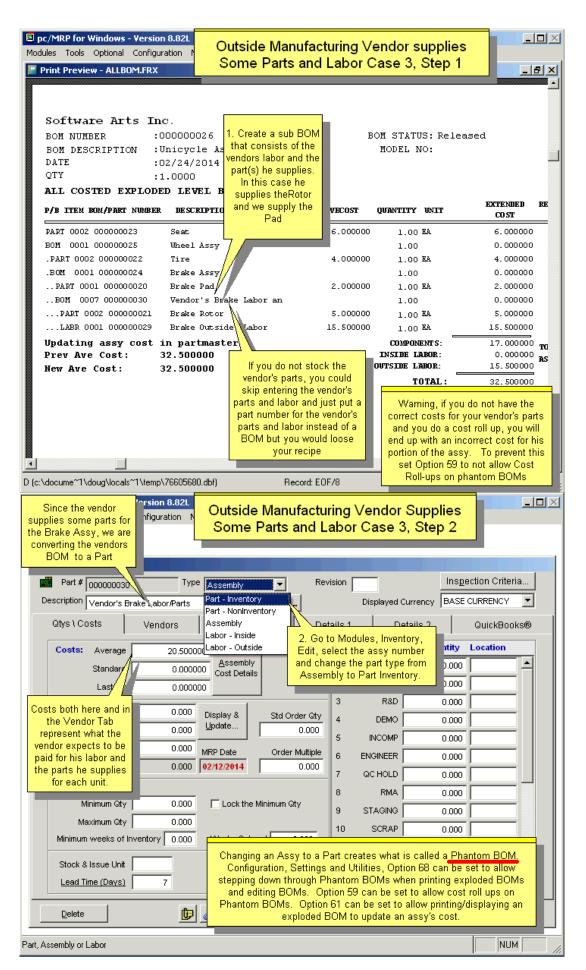
- 1. Vendor supplies labor only
- 2. Vendor supplies all parts and labor
- 3. Vendor supplies some parts and labor







	uring Vendor Supplies abor Case2, Step 2	
Description     Brake Assy       Qtys \ Costs     Vendors       Costs:     Average       22.50000     Assembly       Labor - Unside     Assembly       and cha	Arision Inspection Crite Displayed Currency BASE CURRENCY Relect the assy number ange the part type from poly to Part Inventory. 3 R&D 0.000 4 DEMO 0.000 5 INCOMP 0.000 6 ENGINEER 0.000	
the parts he supplies for each unit.       0.000       02/12/2014       0.000         Minimum Qty       0.000       Lock the Minimum Qty         Maximum Qty       0.000       Lock the Minimum Qty         Minimum weeks of Inventory       0.000       Changing an Assy to a P Configuration, Settings stepping down through Pl and editing BOMs. Op Phantom BOMs. Option	6       ENGINEER       0.000         7       QC HOLD       0.000         8       RMA       0.000         9       STAGING       0.000         10       SCRAP       0.000         and Utilities, Option 68 can be set to allow hantom BOMs when printing exploded BC tion 59 can be set to allow cost roll ups o 61 can be set to allow printing/displaying 30M to update an assy's cost.	w IMs n
Part, Assembly or Labor	-	M × 0 - × 6 - •
P/B ITEM BOM/PART NUMBER DESCRIPTION PART 0002 000000023 Seat BOM 0001 000000025 Wheel Assy .PART 0002 000000022 Tire .PART 0001 000000024 Brake Assy Updating assy cost in partmaster Prev Ave Cost: 32.500000 New Ave Cost: 32.500000	1.00 0.0 4.000000 1.00 KA 4.0 22.500000 1.00 22.5 COMPONENTS: 32.5 INSTDE LABOR: 0.0 OUTSIDE LABOR: 0.0	
Manufacturing Instructions (outside labor and all parts supplied The MRP will tell us to Buy (create a PO for) the part. Create a PO for the part When the part arrives create a receiver for that part number (au U c:\docume~1\doug\locals~1\temp\52677268.dbf)	utomatically increments the onhand qty).	



Software Arts Inc. BOM NUMBER :000000026 BOM DESCRIPTION :Unicycle Assy DATE :02/25/2014 GTY :1.0000 ALL COSTED EXPLODED LEVEL BOM P/B TEM BOM/PART NUMBER DESCRIPTION PART 0002 000000025 State DOM 0001 000000025 State Date Assy PART 0002 00000022 Tire 4.00000 1.00 EA 4.000000 DART 0002 00000020 Erake Pad DART 0007 00000030 Vendor's Brake Labor/Pa 20.50000 1.00 EA 2.000000 DART 0007 00000030 Vendor's Brake Labor/Pa 20.50000 1.00 EA 2.000000 New Ave Cost: 32.500000 Vendor's Brake Labor/Pa 20.50000 1.00 EA 2.000000 New Ave Cost: 32.500000 TOTAL: 32.500000 TOTAL: 32.500000 Manufacturing Instructions (outside labor and some parts supplied by vendor): The MRP will tell us to Buy the Vendor's Brake Labor/Parts part Create a PO for the Vendor's Brake Labor/Parts part Create a Receiver for the PO (to incr the onhand so the stockroom will not take the onhand negative). Create a Work Order for the Brake Assy Use the Stockroom to issue the Work Oder, send the Brake Pad and the PO to the vendor. When the vendor completes the Brake Assy, use the Stockroom to Receive Back Completed Assys	pc/MRP for Windows - Version 8.82L Modules Tools Optional Configuration     Print Preview - ALLBOM.FRX	Outside Manufacturing Some Parts and Labo								
PART 0002 000000023       Seat       6.00000       1.00 EA       6.000000         BOM 0001 000000025       Wheel Assy       1.00       0.00000         .PART 0002 000000022       Tire       4.00000       1.00 EA       4.00000         .BOM 0001 000000024       Brake Assy       1.00       0.00000       0.00000        PART 0008 000000020       Brake Pad       2.00000       1.00 EA       2.00000        PART 0007 000000030       Vendor's Brake Labor/Pa       20.50000       1.00       20.50000         Updating assy cost in partmaster       COMPONENTS:       32.500000       TO         Prev Ave Cost:       32.500000       UNTSIDE LABOR:       0.000000       as         New Ave Cost:       32.500000       UTSIDE LABOR:       0.000000       as         Manufacturing Instructions (outside labor and some parts supplied by vendor):       To TAL :       32.500000         The MRP will tell us to Buy the Vendor's Brake Labor/Parts part       Create a PO for the Vendor's Brake Labor/Parts part       Create a Receiver for the PO (to incr the onhand so the stockroom will not take the onhand negative).         Create a Work Order for the Brake Assy       Use the Stockroom to issue the Work Oder, send the Brake Pad and the PO to the vendor.	BOM NUMBER :000000 BOM DESCRIPTION :Unicy DATE :02/25, QTY :1.0000 ALL COSTED EXPLODED LE	21e     Assy     3. Your BOM       /2014     will now look like       b     this with the       c     vendors portion       VEL     BOM       part that can be     avecost	MODEL NO:	EXTENDED RE						
The MRP will tell us to Buy the Vendor's Brake Labor/Parts part Create a PO for the Vendor's Brake Labor/Parts part Create a Receiver for the PO (to incr the onhand so the stockroom will not take the onhand negative). Create a Work Order for the Brake Assy Use the Stockroom to issue the Work Oder, send the Brake Pad and the PO to the vendor.	BOM         0001         000000025         Whee.           .PART         0002         000000022         Tire           .BOM         0001         000000024         Brake          PART         0003         000000020         Brake          PART         0007         000000030         Wende           Updating assy cost in par         Prev Ave Cost:         32.500	6.0000 1 Assy 4.0000 e Assy e Pad 2.0000 or's Brake Labor/Pa 20.5000 rtmaster 0000	1.00 1.00 EA 1.00 000 1.00 EA 000 1.00 COMPONENTS: INSTIDE LABOR: OUTSIDE LABOR:	0.000000 4.000000 2.000000 20.500000 32.500000 0.000000 <b>70</b> <b>as</b>						
D (c:\docume~1\doug\locals~1\temp\39587875.dbf) Record: E0F/6 Exclusive NUM	The MRP will tell us to Buy the Vendor's Brake Labor/Parts part Create a PO for the Vendor's Brake Labor/Parts part Create a Receiver for the PO (to incr the onhand so the stockroom will not take the onhand negative). Create a Work Order for the Brake Assy Use the Stockroom to issue the Work Oder, send the Brake Pad and the PO to the vendor. When the vendor completes the Brake Assy, use the Stockroom to Receive Back Completed Assys									

### **15.9.3** Consignment Inventory

One method to handle consignment and your own inventory would be to assign the first 4 characters (3 letters and a hyphen) of a part number to identify the company who owns the part. You would then set the product code portion of the part number to 4 characters. The remaining characters in the part number would identify the part number.

For example:

Let's assume the name of your company is Jurong Manufacturing.

Let's assume the name of one of your customers that provides you with consignment parts, is ABC. You could use the configuration menu, **Option 29**, to define the product code size as 4 characters. You could use the configuration menu, to define the total length of your part number to 10 characters You and other customers use and inventory a 5-ohm 1/4 watt resistor.

You could assign your part number for the 5-ohm resistor as JUR-000055 with a cost of 25 cents apiece You would then assign ABC's part number for the same 5-ohm resistor as ABC-000055 with a cost of 0 cents apiece

The above method has the following advantages:

- Inventory can be printed out for a specified customer (All inventory for a specified product code)
- Customer's inventory could be tracked throughout the system by placing POs for customer inventory (\$0.00 unit cost). This can then be received by receiving and issued by manufacturing to help track of inventory movements.
- When you purchase inventory that you are footing the bill for, you would purchase the JUR- part, which has a real cost which will not foul up your inventory valuation, as the JUR- parts would contain real unit costs and the customer parts would contain \$0.00 unit costs.
- If you did need to borrow parts to complete a job you would know the equivalent part numbers automatically.

### 15.9.4.0 Return Material Authorizations, RMA(s)

An on-line slideshow with step-by step instructions is located here: http://www.pcmrp.com/mrp101/rmasetupoption34.htm

This example will be useful in most cases. Please also read all the following alternate methods below to be able to select the best method for your company and your situation.

As an alternative, you could use a credit memo, instead of a PO and Receiver to receive back the assy into an Area named RMA. The credit memo module works with Serial Lot Numbers.

If your customer has not paid the original invoice and you can select option 3 and attach the credit memo to the original invoice.

If your customer has paid the original invoice but has an open invoice you can select option 3 and attach the credit memo to the open invoice.

If the customer has paid the original invoice and does not have an open invoice your would have to select option 1 and create and independent credit memo for later use.

The above method assumes the part being returned is an assembly. If the part being returned is a component part and you plan to repair and return it, use Notepad to create a file named **AllowPartIssRec.flg** in the pc/MRP directory. This will allow the stockroom module to receive back a part

### 15.9.4.1 RMA Method 1 (Stock Adj Tran into RMA Area, Sales Order Y Iss to Mfg, Stock L, R and Invoice)

- 1. Use a Stockroom Adjusting Transaction to receive the part or assy back from the customer
  - a. Adjust the qty up by 1 in the area named RMA. Do not include the RMA area when generating an MRP.
  - b. If this is a serialized assembly and the part was at the customer's site, the master SnLot qty will = 0.
- pc/MRP will create an J-Adjustment SnLotDet Record and increase the SnLot Master Record by +1.Create a sales order for the assy or part
  - a. Use the Sales Order Module to create a sales order for the assembly for \$0.00 or more. Insert a Y into the sales order's Issue to Manufacturing Field (This will allow the stockroom to issue L Lower level parts to it and shield it from MRP).
- 3. Scrap or Repair the assy or part
  - a. Scrap
    - 1. Use the Stockroom Module's Adjust Qty to adjust the qty down.
    - 2. If this is a serialized item, this will create a J-Adjustment SnLotDet Record and decrement the SnLot Master Record by -1
    - 3. Go to Invoicing and invoice them for \$0.00 or more for a new part or assembly
  - b. Repair
    - 1. Use the Stockroom Module's L type issue option to issue the returned assy or part, Select the RMA Area, and issue the completed assembly. This will decrement the qty in RMA by 1 and increase the qty in WIP.
    - 2. If this is a serialized item, pc/MRP will create an S-Stock Issue SnLotDet Record and decrement the the master SnLot Record by -1.
    - 3. Issue any additional parts from the stores area required to repair the part.
    - 4. When you are ready to receive back the repaired part or assy
      - a. Use the Stockroom Module's R-Receive Back Assys from Mfg. This will increment the RMA qty by 1 and decrement the qty in WIP by 1.
      - b. If this is a serialized item, pc/MRP will create an M Received back from Mfg SnLotDet Record and increment the master Snlot Record qty by +1. Do not check the Assign Component Serial Numbers at this point.
    - 5. Go to Invoicing and invoice them for \$0.00 or more for the same part or assembly
- 4. Invoicing the repaired (or new) part or assembly or part
  - a. Use the Invoice Module to invoice the new or repaired part or assembly. This will decrement the onhand qty of this part in the RMA area.
  - b. If this is a serialized part, pc/MRP will create a new I Invoice SnLotDet Record and decrement the SnLot Master Record qty by 1
- 5. Serialization
  - a. If this is a serialized part or sub-assy and it is inserted into the same parent assembly serial number that it came from do nothing.
  - b. If you sent a part or sub-assy with a different serial number than the part or sub-assy that was sent back to you, use the Change Serial Number Assignments Option, enter the original Child Part # and the original Child Serial Number, pc/MRP will display the parent assy and all its serialized children with the same part number. Select the original Child Serial Number, select Swap, select Normal to scrap the original child or Disassociation if the child can be used again elsewhere, and select newly invoiced

The above method assumes the part being returned is an assembly. If the part being returned is a component part and you plan to repair and return it, use Notepad to create a file named **AllowPartIssRec.flg** in the pc/MRP directory. This will allow the stockroom module to receive back a part

### 15.9.4.2 RMA Method 2 (PO w Y comp,Recv to RMA Area, Sales Order w Y in Iss to Mfg, Stock L,R, Invoice)

- 1. Create a PO for the assembly
  - a. Use the Purchase Order Module to create a PO for the sub-assy for \$0.00. Mark the PO as complete by entering a Y in the complete field (This will shield the PO from MRP).
  - b. If this is a serialized assembly, the SnLot master qty will equal 0 as this assembly is at the customers site.
- 2. Receive the assembly
  - a. Use the Receiving Module to receive the assembly. Receive the assembly into an area named RMA. Do not include the RMA area when generating an MRP. Allow pc/MRP to proceed with a cost roll up to negate the \$0.00 cost. Mark the receiver as Complete.
  - b. If this is a serialized assemby, pc/MRP will create an R-Receive SnLotDet Record and increase the SnLot Master Record by +1.
- 3. Create a sales order for the assembly
  - a. Use the Sales Order Module to create a sales order for the assembly for \$0.00 or more. Insert a Y into the Issued to Manufacturing Field (This will allow the stockroom to issue L Lower level parts to it and shield it from MRP).
- 4. Scrap or Repair the assembly
  - a. Scrap
    - i. Use the Stockroom Module's Adjust Qty to adjust the qty down.
    - ii. If this is a serialized item, this will create a J-Adjustment SnLotDet Record and decrement the SnLot Master Record by -1
    - iii. Go to Invoicing and invoice them for \$0.00 or more for a new part or assembly
  - b. Repair
    - i. Use the Stockroom Module's L type issue option to issue the returned assembly, Select the RMA Area, and issue the completed assembly. This will decrement the qty in RMA by 1.
    - ii. If this is a serialized item, pc/MRP will create an S-Stock Issue SnLotDet Record and decrement the the master SnLot Record by -1.
    - iii. Issue any additional parts from the stores area required to repair the part.
    - iv. When you are ready to receive back the repaired assembly
      - 1. Use the Stockroom Module's R-Receive Back Assys from Mfg. This will increment the RMA qty by 1
      - 2. If this is a serialized item, pc/MRP will create an M Receiver back from Mfg SnLotDet Record and increment the master Snlot Record qty by +1. Do not check the Assign Component Serial Numbers at this point.
    - v. Go to Invoicing and invoice them for \$0.00 or more for the same part or assembly.
- 5. Invoicing the repaired or new assembly
  - a. Use the Invoice Module to invoice the new or repaired assembly. This will decrement the onhand qty of this part in the RMA area.
  - b. If this is a serialized part, pc/MRP will create a new I Invoice SnLotDet Record and decrement the SnLot Master Record qty by 1
- 6. Serialization
  - a. If this is a serialized sub-assy and it is inserted into the same parent assembly serial number that it came from do nothing.
  - b. If you sent a sub-assy with a different serial number than the sub-assy that was sent back to you, use the Change Serial Number Assignments Option, enter the original Child Part # and the original Child Serial Number, pc/MRP will display the parent assy and all its serialized children with the same part number. Select the original Child Serial Number, select Swap, select Normal to scrap the original child or Disassociation if the child can be used again elsewhere, and select newly invoiced

The above method assumes the part being returned is an assembly. If the part being returned is a component part and you plan to repair and return it, use Notepad to create a file named **AllowPartIssRec.flg** in the pc/MRP directory. This will allow the stockroom module to receive back a part

### 15.9.4.3 pc/MRP's method 3 to handle RMA(s) - An assembly is returned, rebuilt and sent back to customer

- 1. This step is optional.
  - a. Enter one or more RMA part numbers into pc/MRP's Inventory Module as an Assembly Type part number (e.g. 9999999 & description RMA) with a unit cost of \$0.00 or higher.
  - b. Enter a \$0.00 or higher PO for the RMA part number with the customer listed as the vendor (if you were to enter a PO for the real part number, pc/MRP's MRP Module would think the real part number is on order).
  - c. When you receive the RMA part back from the customer, enter a receiver for that PO with the RMA part number (if you were to receive back the real part number, pc/MRP would perform a cost average on the real part number). For all remaining instructions use the "real" part number.
- 2. Enter a sales order for \$0.00 or more to the customer for the "real" part or assembly number. Click on the Item Info Tab and put a capital "Y" in the Issued to MFG text box. If you do not enter the 'Y', pc/MRP's MRP Module would think you have demand for that assembly and create buy action items for the components.
- 3. If you skipped step 1:
  - a. When the part arrives, enter a new Stockroom 'A' Adjusting transaction for the real part number. This will increase the quantity on hand for that part number.
  - b. If the part is a serialized item, pc/MRP will prompt "Enter Serial/Lot Numbers for this part number". Click on No as we do not want this serial number to be available to another sales order until it is repaired.

If you did not skip step 1:

- a. Enter a new Stockroom 'L' type transaction and issue the part number that you received back, as an "Assembly", to the sales order. This will decrease the quantity on hand for that part number and increase the quantity in WIP.
- b. If the part is a serialized item, Press the Skip button and do not select a serial number.
- 4. **Note:** Including step 3 requires more work but would have the advantage of creating a serial lot number record of the part being received in the form of an adjusting transaction and another serial lot number record showing it being issued immediately to manufacturing for repair. If you use step 3, set **Option 55** to "Off" and "Invoiced item and sub-components".
- 5. If you need to issue parts to repair the returned assembly, use the Stockroom's 'L' type transactions to issue parts to the sales order. Note: Time spent repairing the item can be entered into pc/MRP's Employee Time Sheet module.
- 6. After the repair is complete use the Stockroom's 'R' type transaction to return the completed assembly back from manufacturing. This will reduce the quantity of parts in WIP and increase the quantity on hand of the repaired assembly. If you did not simply add parts but also removed (exchanged) parts, enter an A type stockroom transaction to add those parts back into Stores (or Scrap if that's what you need to do). If the part is a serialized item, enter the serial number. This will create a "Receive from Manufacturing" Serial Lot Number detail record and increase the on hand quantity for that serial number
- 7. Create an Invoice for the original sales order. This will close the sales order decrease the quantity on hand. If the part is a serialized item, select the serial number you plan to ship. This will create an "Invoice" Serial Lot Number detail record and decrease the on hand quantity for that serial number. The serial number(s) will print out on the invoice if **Option 55** is set to do so.
- 8. If the invoice has an amount other than \$0.00, Accounting would enter an 'O' type transaction to post the invoice. (Charging for fixing, e.g. labor & parts)

DEBIT A/R \$0.00 or amount of charge. DEBIT COGS or RMA cost of goods sold for the \$ amount of the parts.

CREDIT Business Income \$0.00 CREDIT Inventory for \$ amount of parts

pc/MRP's Stockroom and Employee Time Sheet Module would provide time and material costs for each the RMA sales order. pc/MRP's Accounting Reports, Cost of Sales Report, would provide combined material and time costs for RMA sales orders.

You can set the stockroom's issue 'L' type transactions to automatically insert a 'Y' into the sales order's Issued To Manufacturing Field, by creating a file named **LIssuPWo.Flg** in the pc/MRP Directory. We do not recommend creating this file as it prevents a safety check against people accidentally entering 'L' type transactions and no initial 'I' type transactions for standard sales and work orders.

The above method assumes the part being returned is an assembly. If the part being returned is a component part and you plan to repair and return it, use Notepad to create a file named **AllowPartIssRec.flg** in the pc/MRP directory. This will allow the stockroom module to receive back a part

# **15.9.4.4 pc/MRP's method 4 to handle RMA(s) - An assembly is returned, rebuilt and sent back to customer** (Courtesy of John Lee, Focus Medical)

1. Create a purchase order using the following information:

a.) Purchase Vendor is RMA001.

b.) Use the address lookup function to set the "ship to" as the customer's Business.

Use CP as the part number of the item.

Modify the description to put the actual item information for example

"IPL returned for repair" or

"Hand Piece for Lamp replacement".

2. Receive the customer owned goods using a standard receiver.

a.) Create a Sales Order to the customer.

Place the CP item on the Sales order with the same description.

b.) Create an In House Repair Record (a paper document that will be attached to the device) with the customer's information.

c.) Evaluate the returned goods to provide an estimate of the costs and a recommendation for the customer as to the next steps.

d.) Call the customer to ask for approval for the work to be performed.

e.) Repeat the above steps if needed for secondary work.

f.) Use the in house repair record to add work done and parts used to the sales order as separate line items.

Note that all parts used must be added to the sales order even if we are not charging for the work or the parts (warranty situation).

g.) Call the customer and determine the payment method, shipping method and shipping charges.

3. Invoice the sales order and ship the goods back to the customer.

The RMA process is now complete for this item.

### 15.9.4.5 pc/MRP's method 5 to handle RMA(s) - Repair an assembly that you do not build

- 1. Create a Sales Order with line item 0001 as an "NA" partnumber and a description of the item being repaired. Add to the comments area any parts you already know you will need.
- 2. Print out and give the Sales Order to the person making the repairs.
- 3. Add line items of parts you use to repair the unit listed in line 0001. Also add the repair labor (which is an inside labor part number).
- 4. When you are finished repairing the unit and have entered the last Sales Order line item, invoice the Sales Order.

**Note:** No need to 'Issue' to WIP. Watch out for the fact that parts in inventory are not reduced until you Invoice the Sales Order. To alleviate this situation, you could, right before entering a Sales Order line item, create a Stockroom 'B' transaction moving the qty to a different storage area (this area could be named 'RMA'). Then when you Invoice the Sales Order to ship the repaired item, you would invoice from the RMA area instead of the normal 'Stores' area.

### 15.9.4.6 pc/MRP's method 6 to handle RMA(s) - Create a custom BOM

- 1. Create a new BOM consisting of just the parts that will be required to repair the assembly.
- 2. Create a new sales order for that customer and that BOM for \$0.00 or more.
- 3. Use pc/MRP's Stockroom Module's I Issue option to issue the BOM to the sales order.
- 4. Use the Stockroom Module's L option to issue additional unexpected parts to the sales order.
- 5. When the unit is rebuilt use the Stockroom Module's R Receive Back Option to receive back the sales order.
- 6. Invoice and ship the sales order for \$0.00 or more.

### 15.9.4.7 pc/MRP's method 7 to handle RMA(s) - Companies using no serialization (also see 15.9.4.9)

**Note:** If using average costs, make sure that in the Configuration Menu, in Option 61, the Receiving Assemblies checkbox is unchecked. If you still wish to leave these boxes checked call Software Arts, Inc. before performing this process or see Section 15.9.4.8 below.

Enter a PO (customer is vendor in this case) for the real part number. The cost can be \$0.00 unit cost. When the part arrives receive it. (increments the on hand qty)

Enter a sales order for \$0.00 or more for the "real" part number. Put a Y in the sales order Issued to MFG Field. Use Stockroom's L transactions to issue the returned part and other parts to the sales order (dcr onhand,incr wip). Once it is repaired, use Stockroom's R Transaction to receive back the part back (incrs on hand qty, dcrs wipqty) Invoice the sales order for \$0.00 or more (decrements on hand qty).

### 15.9.4.8 pc/MRP's method to handle re-work (also see 15.9.4.9)

This method is for handling re-work on an assembly that for example did not pass inspection. **Note:** If using average costs, make sure that in the Configuration Menu, Option 61, the Receiving Assemblies from Manufacturing checkbox is unchecked. If you still wish to leave these boxes checked call Software Arts, Inc. before performing this process or see Section 15.9.4.8 below.

- 1. If there is a sales order for this assembly, check the Hold check box on that sales order.
- 2. Create a work order for this assembly. Before saving it, on the Item Info tab change "Issued to MFG" to a Y.
- 3. Enter an L-type (not I-type!) stockroom transaction to issue this top assembly to the new WO. When asked, select to issue the complete assembly.
- 4. Issue additional parts using L-type transactions, as needed.
- 5. Enter R-type stock transaction to receive back WO from MFG.
- 6. Uncheck the Hold check box on the sales order.

### 15.9.4.9 If performing the processes described in section 7 or 8

If using average costs, make sure that in the Configuration Menu, in Option 61, the Receiving Assemblies checkbox is unchecked. If you still wish to leave these boxes checked call Software Arts, Inc. before performing this process. In this process the top assembly itself is being issued to the work order. The top assembly cost already includes any outside labor cost, and receiving it back from MFG via an "R" stock transaction doubles up on the outside labor cost, making the average cost erroneously higher. To prevent this, BEFORE receiving back from MFG, edit the stockroom transaction that issued the top-assembly to the WO. Decrease the assembly cost by the outside labor cost the BOM includes. Explain in a comment.

### **15.9.5 Issuing Tools to Manufacturing**

One method to handle tools would be to use the stockroom to do an "L" type issue to issue the tool(s) to a sales or work order. However, you must remember to do a "U", return unused parts to inventory, before your do the "R" to receive the completed assembly or your tools will be consumed in the build.

### 15.9.6 Advanced Replacement for Customer Return

An advanced replacement is when a customer requests a part prior to sending in the same part for repair or replacement.

- 1. Create generic or specific RMA partnumber(s) for \$0.00 cost (must be an assy if real part is an assy).
- 2. Create a PO for the RMA partnumber, not the actual partnumber, at \$0.00 to the Customer returning the part.
- 3. Create a SO for the actual partnumber to the customer at current price or \$0, on account and carry so that an invoice is created. Enter the serial number if needed. Do not post invoice if there is a dollar amount on it!
- 4. Receive the PO for the RMA partnumber from customer into a stores area noting serial number if needed.
- 5. If the invoice has a dollar amount, enter a credit memo against the received items and post the invoice and credit memo.
- 6. Create a WO for the RMA partnumber.
- 7. Use a Stockroom 'L' type transaction for the parts needed to repair the RMA partnumber, or an 'L' type transaction if a Repair Kit is used.
- 8. Create a Stockroom 'R' type transaction to receive back the RMA partnumber. PCMRPW directory must contain a file named LIssUpWo.flg (can be created with Notepad but avoid giving a .txt extension). This will put a Y in the isstomfg field in the WO allowing it to be received back.
- 9. If the part is repaired, do a Stockroom 'A' type transaction to increase the onhand quantity of the 'real' partnumber sent to the customer in step 3. If the RMA partnumber is scrapped and you have a scrap stores area, the 'A' type description for the real partnumber should increase the Scrap area quantity. If no scrap area, do not do an 'A' type transaction.

### 15.9.7 Advanced Shipment of Sub-assemblies

An advanced shipment of sub-assemblies is when a customer requests the sub-assemblies shipped prior to shipping the top-level assembly listed on the sales order.

First create a stores area called "PRESHP".

- 1) Create the Sales Order (Order Entry sale type) for the Top Level Assembly with a date required.
- 2) Create a Work Order for the Sub-assembly
  - a. For a quantity required by the Top Level Assembly
  - b. A date required prior to the date required of Top Level Assembly
  - c. Check the box for consumable.
- 3) Generate the MRP Infinite Bucket to get the dates needed for issuing and building both the Sales Order & Work Order. Do not include the PRESHP area.
- 4) Issue the Work Order from STORES and receive back into PRESHP.
- 5) When you are shipping the Sub-assembly:
  - a. Create a Sales Order (On Account & Carry sale type) for a part number of "NA"
  - b. A description of the Sub-assembly
  - c. Quantity you are shipping (this will not reduce the quantity of the Sub-assembly in PRESHP as you have a "NA" part number)
  - d. Use a zero Sale Price on the line item and a zero Purchase Cost on the Accounting tab
  - e. Include comments noting this is a pre-shipment of Sub-assemblies for the final Top Level Assembly Sales Order "XXXXXX"
- 6) Prior to issuing the Top Level Assembly to manufacturing:
  - a. Create a stockroom "B" type transaction, moving the Sub-assembly (quantity from PRESHP to STORES
  - b. Create a Stockroom "I" type transaction, remember to select the choice for "Assembly (If available), then Component Parts" (this is default). This will issue the Sub-assemblies previously built and reduce the Sub-assembly quantity in STORES.
- 7) Receive back the completed Top Level Assembly and invoice the customer, reducing the quantity of the Top Level Assembly in STORES.

### 15.9.8 Alternate part numbers

The alternate part numbers listed in the Inventory module and in the BOM are (at this point) for your reference only. Here is an example how you can issue alternate part numbers.

Let's say the assembly calls for part number CAP-0001. We have a sales order for 15 assemblies. We have 5 of CAP-0001 left in stock, and then we want to use CAP-0002 on the BOM instead.

Here is what to do: Issue the 5 caps when you issue the sales or work order (the stock room record will show 15 required 5 issued for CAP-0001). Enter an L type stockroom issue for 10 of CAP-0002. Edit the original stockroom record and change the Qty Req to 5 (to match the issued qty).

### 15.9.9 Disassembly of an assembly

If you want to disassemble an assembly for the component parts, it must exist as a one level assembly (contains just parts no sub-assemblies) and the on hand qty must be equal or greater than the qty you wish to disassemble. Select Modules, Stockroom, Convert Parts to Assemblies, and enter the BOM number and a negative amount for the quantity you wish to disassemble. Pc/MRP will increment the component parts and decrement the number of assemblies on hand. One of our customers purchases and receives an assembly with the purpose of disassembling it for the component parts.

If this is an assembly for a sales or work order that has been issued to manufacturing and you want to bring everything back into stock, select Modules, Stockroom, New, T – return all parts/assys issued to a sales/work order. This option should not be used if you have invoiced (shipped) any of the sales order.

### **15.9.10 Handling Fabricated Parts**

Handling fabricated parts is a little more difficult than just issuing components to a work or sales order.

#### Example 1:

If you purchase sheet stock by the pound and issue by the sq ft: Enter a part number for a 4'x8' sheet. Issue unit = sq ft All Costs in \$ / sq ft PO Unit = lbs PO Ratio: 1 sq ft / lb

The PO will automatically be in lbs and the cost will automatically be in \$ / lb. When received your inventory will automatically increase by sq ft.

Create a BOM for 2'x2' Door Panel .83333 hours (5 mins) Shearing Labor (Optional) 4 sq ft of sheet.

In this case:

You would make a work order for 8 2'x2' panels

You would use the stockroom to issue the work order to mfg. It will issue a total of 32 sq ft (one 4x8 sheet). You would use the stockroom to receive back the work order from mfg. It would receive back 8 2x2 panels.

If you have another part number called Hood (it is now an assy) .83333 hours (5 mins) Shearing Labor (Optional) 16 sq ft of sheet.

In this case (mixed use): You would issue 2 work orders, one for the hood and one for 4 panels The stockroom would issue both work orders but hand out one sheet which they would share and cut up.

The stockroom would then receive back both work orders for one hood and 4 panels.

From then on the panel and hood could be added to a regular BOM, like a 4 door car consisting of 1 hood and 4 door panels.

### Example 2:

An on-line slideshow with step-by step instructions is located here: <u>http://www.pcmrp.com/mrp101/fab1overview.htm</u> This example shows how the fabrication instructions can be included with the BOM.

### Example 3:

An on-line slideshow with step-by step instructions is located here: <u>http://www.pcmrp.com/mrp101/fab2partscreen1.htm</u> In this example we cut up a 4'x8' sheet of oak veneer into 24"x12" panels, to be bottom panels for drawers.

# 15.10 Transferring Data from Peachtree or QuickBooks into pcMRP

### 15.10.1 Exporting data from Peachtree into pc/MRP

- From the file menu, select Import/Export.
- For the Customer List select: Accounts Payable and Customer List.
- For the Vendor List select: Accounts Receivable and Vendor List.
- Click on the export button
- Click on the layout Tab and select the fields you wish to export. For best results keep a written record of the order and the contents of each field you wish to export. Example:
  - o Field 1 Customer ID
  - o Field 2 Customer Name
- Select options and make sure the "Include Headings" box is <u>NOT</u> checked. Write down the name and location of the file to be exported.
  - o C:\customer.csv
  - $\circ$  C:\vendor.csv
  - o C:\inventory.csv
- Click on the OK button to create the file
- Within pc/MRP go to the Data Import Program, **Option 40** in the pc/MRP configuration mode. Importing data into pc/MRP is covered within in Section 15.11.1 of this Manual.

### 15.10.2 Exporting parts and addresses from QuickBooks into pc/MRP

See Sections 16.16.2.8 and 16.16.2.10.

# **15.11 Importing Data Files**

### 15.11.1 Overview

In essence, what we need to do is change your existing data into a readable format for pc/MRP. To do this we will use Excel and perhaps Access to manipulate your data. Your existing data will have to be exportable into Excel or other spreadsheet readable formats. If you feel more comfortable with Lotus or a different spreadsheet program than Excel you are welcome to use that instead. The instructions are however written specifically for manipulating Excel files, saving them as a CSV file, and importing them into pc/MRP. To begin this process we will first address how your data is stored in pc/MRP. The lesson will continue with how to manipulate your existing data so pc/MRP will recognize it as an acceptable format. We will then address how to import this data into pc/MRP.

It is a good idea to try the import in a practice copy first, and only proceed with the live version when the person is comfortable with the process.

<u>Please note that Software Arts feels that you have the best chance of a successful import if you always save the</u> Excel file as a CSV file, preferably with the exact pc/MRP column headings.

Always set an Administrative Lockout before importing data into pc/MRP.

This chapter is specifically written for importing data in this order:

- 1. Settings & Utilities, **Option 39** and **Option 40** overview
- 2. ADDRBOOK for customer and vendor information http://pcmrp.com/mrp101/importcsvaddroverview.htm
- 3. PARTMAST for inventory parts and costs, etc. <u>http://pcmrp.com/mrp101/importcsvpartoption39.htm</u>
- 4. PARTVEND to relate an inventory part with one or more vendor's price and quantity breaks <u>http://pcmrp.com/mrp101/importpartvendvendorstab.htm</u>
- 5. BOM for defining an assembly and sub-assembly structure using the previously entered inventory parts http://pcmrp.com/mrp101/importcsvbomoverview.htm
- 6. SALES to add current open and closed sales orders http://pcmrp.com/mrp101/importcsvsaleoverview.htm

Most of the steps and recommendations however are applicable for every module. If you follow the steps, study the data structure, manipulate your legacy file as needed, and import using **Option 40**, you should be successful every time.

### Settings & Utilities, Option 39 overview

**Option 39** in Settings & Utilities will allow you to print out file structures for any of pc/MRP's data tables. Use these names and field lengths when creating the import data file. (See the address book example below.)

Inventory 39 1 BOM pc/MRP Table Structur Stock Purch Rece Sale/ Shipn Addri Acco Quick Comp Globa Comp Globa Repo Utilitie C ASCII Text file (.TXT Repo Utilitie C HTML Document (.H	Option 39 allows the file structure	the user to print out or any of pc/MRP's ise files. ormation on receiver rep N ucture for a selected DE [ d overflows [ 1. Select t you wish I d default con N File and Print.	Utility] Utility] Utility] he DBF whos to print out of 'es ale Price Mark lot Configured irst Method tore Ares? ( tore Ares? (	up option for Suffix	iving ity to issue to W h is ALLOWED. Cost kes	Roll
2. Press the OK Button	Field Field 1 ID 2 NAME 3 PNAME 4 ADDRES 5 CITY 6 STATE	Character Character Character Character	-	Dec 0 0 0 0 0	Street Address	

Please note that the 'TYPE' column should be the same in Excel as listed in the Option listing. Also, the Excel column width should be the same as listed in the Option 39 listing.

Types consist of:

- Character
- Numeric
- Logical
- Date
- Memo (only for saving as dBase III files)

### Settings & Utilities, Option 40 overview

- Character fields are automatically left-justified.
- Automatically removes blank records in resultant pc/MRP DFB table.
- Automatically prompts to remove duplicate records (original or new).
- Prompts for BOM number and BOM Description if missing.
- When importing new BOMs, new parts and BOMs are added to pc/MRP's Inventory file (partmast.dbf) if the new parts and BOMs do not exist in the partmast.dbf file. PARTDESC is used for the partnumber description when adding a new part while importing the BOM.
- Adds BOM number and BOM description to partmast.dbf file when importing a BOM.
- Adding a file named **NOPARTSFROMBOM.FLG** will prevent pc/MRP from adding parts not in the partmaster from a BOM being imported into pc/MRP.
- Option to import 2003 XML files from Excel.
- Option to import Sales Orders from a ShopSite shopping cart.
- Option for each user to save their importer settings.
- Importing Sales, Purchases, Invoices or Receivers will insert address information from the AddressBook.
- Import as a CSV (comma separated values) file.
- Save the Option 40 import mapping as a template.

### 15.11.2 Address Book

### Step 1 Use Settings & Utilities, Option 39 to print out the address book file structure.

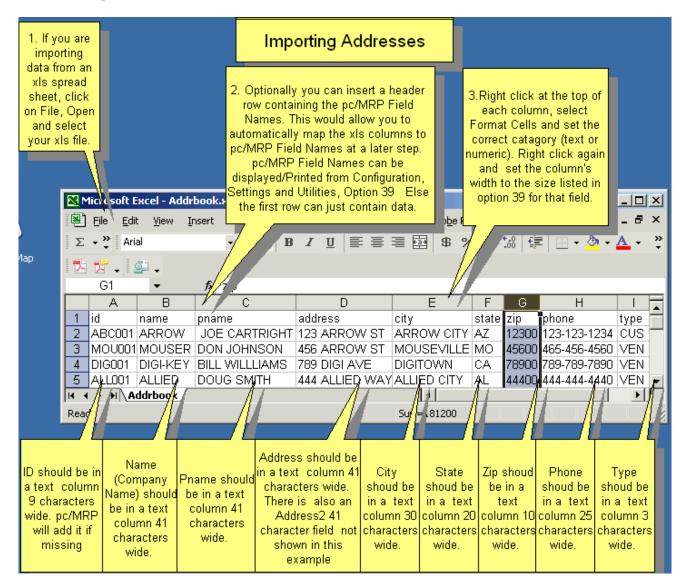
VFP - C:\V850 (U Modules Tools Opt	ional Con	figuration					on 39, and BOM.DBF Structure as shown				
Display Settings For		n Deer	ATT.		Setting	_	<b>A</b>				
Source Description     Source Description     Source Description											
	pc/MRP Table Structures										
	scruccures	5		ric field overflows							
Vandar Price List											
C <u>Actual Table</u>	Structurej		<u>S</u> croll	ва	Prompt for t	he area	when receiving				
					Import Cost	: Average	e Quantity to is				
				ion	Yes	-					
Dictonary Tab	ole Definit	ion			Sale Price M	arkup op	tion is ALLOWED				
ADDRBOOK				rize and default cor		ad for S	Iffivae				
	📝 C:\V8	50\STRUC	etur\actual\ai	DDRBOOK.TXT - N	otepad++						
ASCII Text fil	File Edit	Search	View Encoding	Language Setting	s Macro Ru	in TextF	X Plugins Window ?	×			
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🔽 Open ii	1										
	2	Dicton	arv Table St	ructure for	ADDRBOOK	DBF					
	3		y Module: Ad								
Output Folder	4		-								
	5										
	6	Field	Field Name	Type	Width	Dec	Purpose				
<u>0</u>	7										
	8	1	ID	Character	9	ο	Account Number				
	l ä	2	NAME	Character	41	0	Company Name				
	10	3	PNAME	Character	41	0	Contact Name				
	11	4	ADDRESS	Character	41	0	Street Address				
	12	5	CITY	Character	30	0	City				
	1 **			ondracoer			0109				
	5147 chars	s !Ln:1	Col:1 Sel:0(0	bytes) in 0 ranges		Dos\Win	ndows ANSI	INS //			

### Step 2 Format the Address Excel worksheet and save as a CSV File with or without column headers

In Excel, you can right-click on a column to set the data character width and whether the data is numeric, text, logical (TRUE or FALSE), or a date. Using the same column names as our item names allows you to sync the fields without manual mapping when importing via Settings & Utilities, **Option 40**. (See example below.)

If your Excel file does not contain an ID field, pc/MRP will automatically generate an ID for each customer/vendor. This ID will usually consist of the first three letters of the Name, followed by a three digit number.

This is an example where the first row contains field names:



Please ensure that the data type and width are followed to ensure a successful import. Now save this file as a "CSV", comma separated file, file such as ADDRBOOK.CSV.

When you save an Excel file as a .CSV file, Excel gives you several warnings, that you will lose the formatting, It is OK to just select "YES" each time, as that is exactly why we are saving as a CSV file: to discard the formatting and only keep the data.

# Step 3 Use Option 40 to import the address book information.

It is good practice to set an Administrative Lockout before importing data into pc/MRP.

Locate the ADDRBOOK.CSV file you just saved:

	Step - C:\V850 (User: DO Modules Tools Optional Co	-	
ľ		ingarado	select Configuration, Settings and Utilities,
	🗵 pc/MRP Settings 8	Utilities	and select Option 40 4. Select the type
	Display Settings For	Option	of file you wish to
	Al	38	AP voucher information on receiver rep 3. Select the import from ASCII,
	Inventory	39	F int/Display the file structure for a selected DE pc/MRP Table CSV, dBASEIII,
	BOM	▶ 40 <sup>°</sup>	Import data into pc/MRP you wish to XML, XLS, etc.
	Stockroom	41	Check data tables for numeric field overflows import data into. We recommend
	Purchase Order	42	PO cost based 🖸 pc/MRP Data Importer 🔄 🗾 🔽 CSV.
	Receiver	44	Set the default r
	Sale/Work/Invoice	45	Set the stockrod pc/MRP file to receive the data
	Shipment	46	Allow the Auto Address Book
	Address Book	47	Set the Inventor
	Accounting	48	Set the part num File type of the import source file
	QuickBooks Related	49	Set the part num Comma Separated Values
	Company Address Global Settings	50	Set the average
	Report&Label Writer	51	Allow a BOM pa Location of the file to Import Locate ultiple ite
	Litilities	52	Edit the content C:\V850\ADDRBOOK.CSV
		53	Sales Warnings
		54	Update alternate 5. Locate the file
	0. Olishan Dur	55	Put Serial Numb First Row Contains: you wish to import
	2. Click on Run	56	Match a custom © Field Names data from.
	Utility Option 40	57	Allow shipper g
			<u>Data</u>
	Send to <u>F</u> ile	<u>e</u> <u>R</u>	un Util <del>ja 40</del> 🗖 🔽 🗖 Save Settings
			6. If the first row
		1	conatins name that <u>O</u> k <u>C</u> ancel
	It is a seed idea to get an		match pc/MRP field
	It is a good idea to set an Administrative Lockout		names select Field
	before importing data into		Names, else select 7. Press OK
-	pc/MRP.		Data
	portine .		

Make sure that you have selected Field Names for "First Row Contains". Now press the OK button.

Step 4 Import the data into pc/MRP's Address Book.

	1 <b>850 (User: DOU</b> ols Optional Con	figuration Manual Developer Hel	p	
	pc/MRP Data Ii	mporter		X
	Ol Address Book	Database Structure		Import File
All	Field Name	Purpose	Filled By	Field Name
Inve	ID	Account Number	ID 🧧	
BOI	NAME	Company Name	NAME	NAME
Sto	PNAME	Contact Name	PNAME	PNAME
Pun Rec	ADDRESS	Street Address	ADDRESS	ADDRESS
Sale	CITY	City	CITY	CITY
Shit	STATE	State/Province	STATE	STATE
Adc	ZIP	Postal Code	ZIP	ZIP
Acc	COUNTRY	Country		
Quir	PHONE	Telephone Number	1. Since the first row	v has column names that match
Con	EXTENSION	Telephone Extension		, Autosync will automatically map
Glol	TYPE	Address Type (Addr Type)		pc/MRP fields. If the first row
Rep	DATE	Date Address Entered		would have to manually map the
Utilii	ACCOUNT	*** Not Used ***		o the pc/MRP Field Names on the
	DISCOUNT	Sale/Purchas Discount Perd Save Restore		eft columns and double clicking on
	FAXNO	Discount Perd Save Restore     FAX Number Import Import	the pc/MRP F	Field Names on the right.
	COMMENT	Comments Map Map		
	TAXR	Tax Rate Perc		
	RESALE	Resale Number		
	OAL COMAN	Releamen		
			atosync Clear All	records and insert new records"
_				does just that. It will delete all
	Import Method			the records in the current
		ew records to the data table	<u>(</u>	2k database and then only add the
	• Removed	urrent records and insert new rec	ords	new records! This Option was
	2	If you are adding to a table sele	ct Annend If you wish to	removed in 8.72 and added
		place the data in a table select		back in 8.82G and higher.

Remember that you can press **Autosync** if the field names in the CSV file are the same as the field names that pc/MRP uses. If not, you must manually map the field names by selecting the names in both columns and pressing the **Select** button. **PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. If you select Remove, pc/MRP will create a backup in the Importer subfolder. The application defaults to "Append".

Press the OK button and the data will be imported. If any duplicates are found, you will be asked to either keep the new records or the ones already in the database.

Step 1 Use Settings & Utilities, Option 39 to print out the inventory file structure.

VFP - C:\V854 (User: DOUC Modules Tools Optional Conf pc/MRP Settings & Utilitie	iguration						nd PARTMAST.DB ture as shown belov		
Display Settings For Optio	n Dertin	0000		Setting		_	<b>A</b>		
All 39 PrintDisplay the file structure for a selected DE [Utility]									
pc/MRP Table Structures			eric field ov	erflows [Utility]					
<u>xo</u>		0	1	Vendor	Price List				
C Actual Table Structure		<u>S</u> croll	··· rea	Prompt	for the area w	hen rec	eiving		
			6	Import	Cost: Average	Quan	ntity to is		
-			ption	Yes					
Dictonary Table Definiti	🔀 C:\V8	54\STRU	TUR\ACTUAL\PA	RTMAST.TXT - N	Notepad++		_ [	I XI	
PARTMAST.DBF						n TextF		?	
			-		-		-	x	
ASCII <u>T</u> ext file (.TXT)	l 🕞 🖪		B B 🗛 🕹	D D a	z   🏔 🌭		🖫 🖼   🛼 👖	»	
Open in Notepad.	1								
	🔚 mrp10	01 index.htm	🔀 🔚 importosvpa	ntlist.txt 🔀 🔚 PA	RTMAST.TXT 🛙	3			
○ <u>H</u> TML Document (.HT	1								
🗹 Open in your Inter	2	Dicton	ary Table St	ructure for	PARTMAST.	DBF			
	3	Used b	y Module: Pa	rt Master					
Output Folder Location	4								
	5					=====		.	
1	6	Field	Field Name	Type	Width	Dec	Purpose		
	7								
Ok	8	1	PRODCODE	Character	2	0	*** Not Used		
,	9	2	CATINDEX	Character	3	0	Catagory Inde	:	
	10	3	PARTNO	Character	15	0	Part Number		
	11	4	DESCRIPT	Character	35	0	Part Descript		
	12	5	MANUFACTER	Character	25	0	Manufacturer		
	13	6	MODELNO	Character	23	0	Model Number	-	
							•		
	13 Ln : 1	Col:1 S	iel : 0 (0 bytes) in 0 i	ranges	Dos\Windo	ws AM	INS	1.	

The Inventory Module is simple to understand. Everything that deals with inventory data is stored here. The BOM module stores the 'recipe' while the Inventory module stores the 'ingredients'. For complete details about the Inventory Module, see the chapter on the Inventory Module. When importing data into the inventory module, there is really only one required key field, the part number. However, users should try to import as many fields as possible to save time. Listed below are a few of the most important fields in Inventory and their use.

PARTNO: This is your part number field. KEY FIELD (Limited and truncated to 31 characters)
DESCRIPT: This field is your inventory part description (Limited and truncated to 35 characters).
MANUFACTER: The part manufacturer name (Limited and truncated to 25 characters).
MODELNO: The part manufacturer's part number (Limited and truncated to 23 characters).
PART\_ASSY: This one character field defines this part as a Part or Assembly as described below. KEY FIELD OUTSOURCE: This logical field is used in conjunction with the PART\_ASSY field as described below.

Part – Inventory: (part\_assy = P, outsource = .F. or False in Excel) Part – Non Inventory: (part\_assy = P, outsource = .T. or True in Excel) Assembly: (part\_assy = A, outsource = .F. or False in Excel) Labor Inside: (part\_assy = L, outsource = .F. or False in Excel) Labor Outside: (part\_assy = L, outsource = .T. or True in Excel)

ALTPARTNO: Titled as General info on the inventory screen. This is a Memo field and is unlimited in length.

The rest of the fields can be imported if the data exists but they are not essential fields.

Note: If there is no "Shippable" field in the import file, the default value is .T. (8.73 and above).

### Step 2 Format the Inventory Excel sheet and save as a CSV file with or without column headers

This is an example where the first row contains data (not a header row).

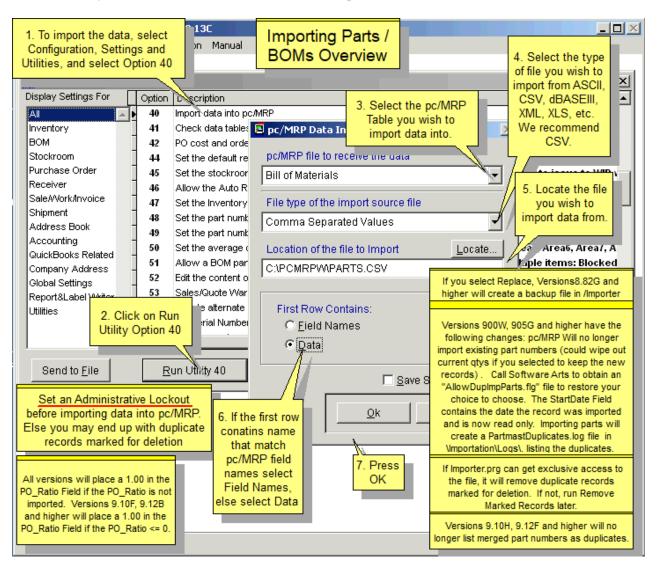
1. If you are importing data		Importin	g Parts			
	cli O com allow pc/ ficrosoft Ext F	elete all header ro ick on the header ptionally, you car taining the pc/MF you to automation /MRP Field Name ield Names can to ofiguration, Settin	rows and selec n then insert a h RP Field Names cally map the xl as at a later ste be displayed/Pri gs and Utilities	t Delete). teader row this would ls columns to p. pc/MRP inted from	each colu Format Cells correct cate numeric). Rig and set th width to the option 39 fr	at the top of mn, select s and set the gory (text or ht click again he column's size listed in or that field.
	12 - 19					
	A1 /	<i>∱</i> ≈ 0000000	JO1			
If your part numbers	A		3	C /	D E	<b>^</b>
are all numeric and Excel will not allow		ARING, 3" OD x 1	I" ID	P	FALSE	5 10
leading zeros, go into	000000002 SPC			P	FALSE	0 1
the top text box and	000000003 REA			P	FALSE	5 1000
insert a single 'before	000000004 NUT			P	FALSE	10 0
the start of the part	000000010 WH				FALSE	1 <sup>5</sup> 290
number		AR WHEEL AXLE			FALSE	0 1500
	000000012 PAF	ER OFFICE SU	PPLY(NonInve <mark>/</mark> ]	tory PP	TRUE	$\frac{1}{1}$
<b></b>	00000013 LAE	<u>n</u> 1	/		FALSE /	<u>i 20</u>
	10000014 LAE		/	LL		5 20/
xls Columns with logical	parts/			<u></u>	Onhand and	Cost (average
values should be			Part Assy,	Out_Source		cost), StdCost
Generic Columns		Descript, the	text, P for	False or ommitted for	Area20Qty (It	
containing TRUE or	PartNo, your	part's	Inventory and	Inventory Parts		LastPOCost
FALSE. However	Part Number,	description	Non Inventory	and Assys.	should be a	should be in a
numeric columns with 1	should be in a text column,	shoud be in a	Parts. A for	True for	numeric	numerical
or 0 or text column with	15 characters	text column 35	Assys. L for	Outside Labor	column 13	column 14
T or F will work as well.	wide	characters	Inside and	and Non	characters	characters
	WIGE	wide.	Outside Labor	Inventory Parts	wide with 3	wide with 6
					decimals	decimals.

When you save an Excel file as a CSV file, Excel gives you warnings about features that are not compatible with CSV. Just select "YES" each time, as our goal with saving as CSV is exactly that: to get rid of Excel's formatting and just to keep the data.

### Step 3 Use Option 40 to import part number information.

It is a good idea to set an Administrative Lockout before importing data into pc/MRP.

In this screen, you would need to select the Data as the option for First Row Contains.



Press OK to continue to the next screen for Option 40 import.

Remember that file structure may change with newer versions of pc/MRP and you should always print out the layout for your version. As an example, additional fields (in the password table) for PO approval are only available in pc/MRP versions 8.96 and higher.

### Step 4 This screen shows importing with the first row containing data

This screen shows the names of the columns as 'FIELD\_1', etc. as the spreadsheet did not contain column headings; you can save the match-up for use another time if the Excel sheet has the data columns in the same order.

Th.	:\ <b>V854 (User: D0</b> Tools Optional C	<b>UG)</b> onfiguration Manual Develop	er Help	
	😐 pc/MRP Data	Importer		X
🚊 po	Part Master	Database Structure		Import File
Displ:	Field Name	Purpose	Filled By	Field Name
Invern BOM Stock Purch Recei SaleA Shiprr Addre Acco Quick Comp Globe Repoi Utilitie	PRODCODE CATINDEX PARTNO DESCRIPT MANUFACTEI MODELNO DRAWSIZE DRAWINGNO REVLEVEL COST POUNIT PORATIO UNIT ONHAND ONORDER ONDEMAND WIPQTY MINQTY MAXQTY L TIME	Model Number 1 Drawing Size Drawing numb Revision Code Average Cost Purchase Orde Stocking/Sales Quantity in Stor Quantity On Or Save R Quantity On De	Map Columns to the	tch pc/MRP's wtosync will y map the pc/MRP fields
ع	┌ Import Metho	/ 🛥 🖳	Autosync Clear All	does just that. It will delete all
	0 <u>R</u> em			

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. If you select Remove, pc/MRP will create a backup in the Importer subfolder. The application defaults to "Append".

### This screen is Step 4 if you are importing with field names in the first row

The screen below shows that the CSV file has column headings and in this case you can select the **Autosync** button and then manually match any names that are different spellings for the same data.

Display Settings For       Opt         All       3         Inventory       3         BOM       3         Stockroom       3         Purchase Order       3         Receiver       0	ties ties ton Description Change Password Check inventory for invalid Set the eMail default subjec brnate pc/MRP Fields nto ti	Note: If you saved you import file as an Exc File (4.0 in 8.21 and loo or 5.0 in 8.30 and high the Import Field Nam would be A, B, C, et and you would have manually sync the file	to MRB; 3 R&D
Sale/Work Shipment Address E Accountin QuickBook Company , Global Set Report&La Utilities CATINDEX PARTNO DESCRIPT MANUFACTE MODELNO DRAWSIZE	Purpose         *** Not Used ***         Catagory Index         Part Number         Part Description	Filled By PARTNO DESCRIPT	Import File       Field Name       PARTNO       DESCRIPT       ONHAND       PART_ASSY       COST       UNIT <none></none>
	Drawing number Revision Code Average Cost od new records to the data table current records and insert n	e new reco Click on Append new reco Parts. Click on Remov	Click the OK Button to import parts Ok Cancel cords if pc/MRP already contains we current records if you want to and insert these new parts.

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. If you select Remove, pc/MRP will create a backup in the Importer subfolder. The application defaults to "Append".

Press the OK button and the data will be imported. \Importation\Logs\PartmastDuplicates.log will store information about the import.

Note: See Section 15.11.8 if you also import the General info (Altpartno) field.

pc/MRP does not import part numbers that already exist. If any duplicates are found, the program will disregard the new record and keep the record that is already in the database. **Note:** pc/MRP versions **9.00U**, **9.05F** and lower offered to keep the old or the new records. Adding the file **AllowDupImpParts.FLG** will restore the old behavior.

FOX C:\V943 (User: D Modules <u>T</u> ools <u>O</u> ptional	Importing Parts - Duplicate R 900W, 905G and Hi		- 🗆 ×
Importation notice	he imported part inventory records already exi	ists within pc/MRP.	
NOTE	n integrity, imported duplicate records are rejection of the pre-export new inventory records and replace the pre-exponents		r Duplicated: Buyer
	ove the pre-existing record from inventory BEFOF act Software Arts technical support to discuss ot		
Global Settings	QK Processing	If importing caused of Version 9.00W, 9.05	
Report&Label Writer Utilities	0%	display the follow	
higher as we have made the f 1. pc/MRP will now delete the pc/MRP can get exclusive acc	new duplicate part number records provided you set a ess to the partmast file. If you want to retain the ability ords, call Software Arts and we will instal and "Allow[	to 9.00W, 9.05G or In Admin Lockout so v to retain the new	List Standard On n receiving Quantity to issue to ❤ >
	artMastDuplicates.log file in \Importation\Logs\ parts, pc/MRP will replace the new duplicate partno w	ith " Dup Import" and	Cancel
add the original partno to the a	inguration M Importing Parts DL		Found
Display Sett All Inventory BOM pc/MRP will display a log documenting the duplica records from the new rec being imported in sub dire \Importation\Logs\ QuickBook Company A File Edit Format View He PartNo, Descript	Settings & Utilities ngs For Option Description 25 Data to be inserted into the PO 26 Launch a plug-in utility process 27 Reindex all index files and che 28 Define part number size Done Cords ctory Relative Relative Cords ctory Cords	Setting 's "Placed By" fic Buyer s [Utility] ck for corruption [Utility] 9 3 [Use the F [Utility] ages [Utility] as in inv 1 STORES	Password module to cl ; 2 TEST/MRB; 3 ABC ; 4 :: Average. Costs ar
Duplicate Part Numbers	Part Number Description from the new record(s)	· ·	rice List Always 1 or the area when received in the area when received in the area when received in the second sec

### 15.11.4 PartVend

Step 1 Use Settings & Utilities, Option 39 to print out the partvend file structure.

VFP - C:\V854 (User: DOUG) Modules Tools Optional Configuration		ting Configuratio ow you to displa					
Display Settings For Option	ារារជា		Setting	1		4	
All 39 Print D	isplay the t	file structure for a s	elected DE [Utility	]			
pc/MRP Table Structures		×	[Utility	1			
xo	_	ric field o	verflows [Utility	1			
C Actual Table Structure	<u>S</u> cro	oll	Vendo	r Price List			
_		ea ea	-	t for the area w		-	
l l			Import	t Cost: Average	e Qua	ntity to is	d in the second
Dictonary Table Definition		ion	Yes				
	54\ STDLIG			riee Markun or otenad + +	utian ie		
		View Encoding			n Toyle	Y Diuging	
	Jearch	view Encounty	Language Securi	ys Macro Kui	i iexu	A Flugins	X
● ASCII <u>T</u> ext file (.TXT)			A A A A A A A A A A A A A A A A A	⇒ las b l			
🔽 Open in <u>N</u> otepa 📄 으 🗁		🗟 🔓 🖨 😽		<u> </u>	3 3		i <u>=</u> ⊒ 11 ‴
C HTML Document (.F 🗎 mrp10	11 index htm	🛛 🔚 new 2 🛛	PARTVEND T	XT 🛛			
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Open in your Im 1	<b>.</b>						
2		ary Table St		PARTVEND.	DBF		
Output Folder Location 3	used b	y Module: Pa	rt vendors				
4							
5							
6	Field	Field Name	Туре	Width	Dec	Purpose	≥ ∥
<u>0</u> k 7							
8	1	KEYID	Integer	4	0	-	Record
9	2	PARTNO	Character	15	0	Part N	
10	3	PREFER	Integer	4	0	Prefere	
11	4	VENDID	Character	9	0		Addres
12	5	VENDNAME	Character	41	0	Vendor	
13	6	VENDPHONE	Character	25	0	Vendor	Phone 🔻
28 Ln : 14	Col : 61	Sel : 0 (0 bytes) in	0 ranges	Dos\Winde	ows Al	NSI	INS

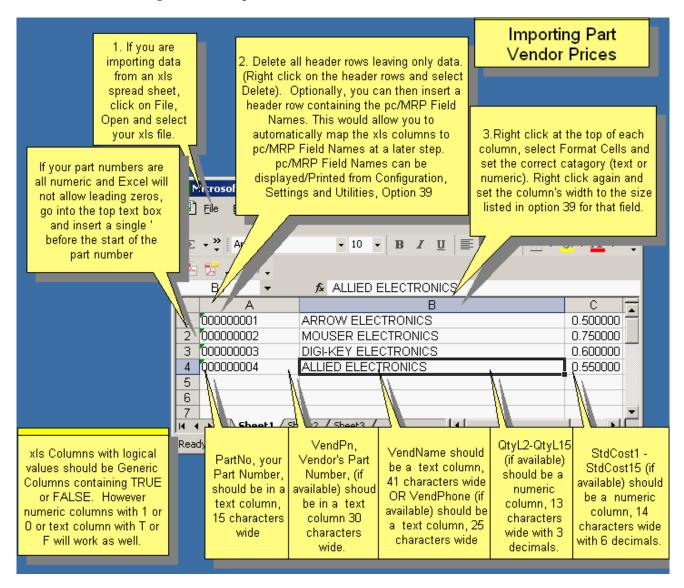
The **PartVend** table allows for an unlimited number of vendor and price quantity breaks. These versions will use the vendor name or phone number to insert into the vendor fields of the partvend table. The PARTVEND table contains KeyId, PartNo, VendId, StdCost1-15, QtyL2-15. The KeyId field need not be included in the import as it is automatically filled in by the importer.

Please note the field names as they are useful when selecting the Autosync option when importing with **Option 40**.

### Step 2 Format the PartVend Excel sheet and save as a CSV file with or without column headers

This screen shot does not show a header row for column data names.

You always have an option to use or not use column headings. If not, you will not be able to autosync the data and must manually map the Excel columns to the pc/MRP data field names. Use **Option 39** to get field names for the PARTVEND table and **Option 40** to import.

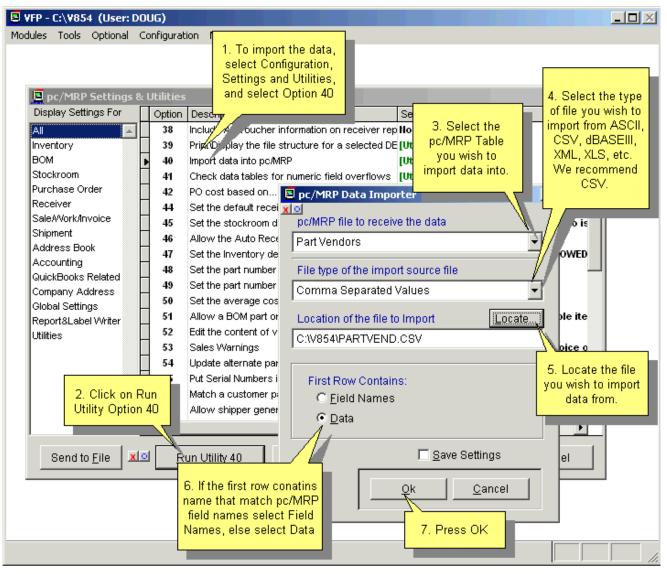


When you save an Excel file as a CSV file, Excel gives you warnings about features that are not compatible with CSV. Just select "YES" each time, as our goal with saving as CSV is exactly that: to get rid of Excel's formatting and just to keep the data.

### Step 3 Use Option 40 to import the data.

It is a good idea to set an Administrative Lockout before importing data into pc/MRP.

Since the first row of the Excel spreadsheet does not contain column headers, you will select **Data**, for "**First Row Contains**".



### Step 4 This screen shows importing with the first row containing data

SHEEK 1	54 (User: DOUG)	uration Manual Devel	oper Help	_ <b>_ _</b> X
E	o Part Vendors			Import File
Display	Field Name	Purpose	Filled By	Field Name
All Invento BOM Stockrc Purcha: Receive Sale/W Shipme Addres Accour QuickBi Compar Global \$ Report2 Utilities	PARTNO PREFER VENDID VENDNAME VENDPHONE VENDCURNCY QTYL2 QTYL2 QTYL3 QTYL4 QTYL5 QTYL6 QTYL5 QTYL6 QTYL7 QTYL7 QTYL8 QTYL10 QTYL10 QTYL11 QTYL12 QTYL13 QTYL13 QTYL14 QTYL15 STDCOST1	Level 2 Qty Level 3 Qty Level 4 Qty Level 5 Qty Level 5 Qty Level 6 Qty Level 7 Qty Level 8 Qty Level 9 Qty Level 9 Qty Level 10 Qty Level 11 Qty Sa		MRP's c will the
In_data (c:\docu	Remove cu     3. If you		table d	database and then only add the new records! This Option was removed in 8.72 and added back in 8.82G and higher.

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. If you select Remove, pc/MRP will create a backup in the Importer subfolder. The application defaults to "Append".

Press the OK button and the data will be imported. If any duplicates are found, you will be asked to either keep the new records or the ones already in the database.

### 15.11.5 BOMs

# Step 1 Use Settings & Utilities, Option 39 to print out the BOM file structure.

pc/MRP uses a very simple system to organize the Bill of Materials. Take a moment to view the picture below. The picture below depicts a simple bike assembly and the fields necessary to import a BOM into pc/MRP. (The reference designator field, Refdesmemo, is optional but will receive some special attention later.)

VFP - C:\V854 Modules Tools C	ptional C	onfiguration					otion 39, and BOM.DBF will allov Structure as shown below.	/	
Display Settings Fo		ption	HIDLOS		Setting				
All				cture for a selected	DE [Utility]				
pc/MRP Table				न	[Utility]				
	Structure	25	<u>^</u>	leric field overflow					
C Actual Table Structure			Scroll		Vendor P				
				irea	-	or the are	ea when receiving	_	
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BOM.DBF	🔓 🖨		🗟 🔓 🖨 🛛 🍕	4) Fi   7 C	🛗 🚼	<b>A A</b>	🖪 🛃   🏣 1   🎼 🐼	»	
,	- 10 mro 10	1 index.htm	🛛 🔚 importesybe	om. txt 🗷 😑 BOM. T	XT 🛛				
• ASCII Text	1								
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🔽 Open	5								
Output Folde	6	Field	Field Name	Туре	Width	Dec	Purpose		
	7							-1	
·									
	8	_	BOMNO	Character	15	0	BOM Number		
	9	2	BOMDESCRI	Character	35	0	BOM Description		
	10	3 4	PRODCODE CATINDEX	Character Character	2	0 0	*** Not Used *** *** Not Used ***		
	12	4	PARTNO	Character	3 15	0 0	Part Number		
	13	6	ITEMNO	Numeric	4	0	BOM Item Number		
	14	7	QTY	Numeric	12	4	Quantity per Assembly		
	15	8	PART ASSY	Character	1	0	Part, Assembly, or		
	1		_						
	1724 chars	s 178 Ln : 1	1 Col:1 Sel:0	(0 bytes) in 0 range	s	Dos\!	Windows ANSI INS	//.	

Please note the field names as they are useful when selecting the Autosync option when importing with **Option 40**.

File E	dit Search	JCTUR\ACTUA N View Encodi	ng Language	s Impo Requ	lire		F 🐷   💌 🔳 🕨 🔤	× × »
📄 working.txt 🔀 🔚 help.txt 🗵 🔚 KimCreditMemoAdjustGuidelinie.txt 🗵 🔚 bom.txt 🗵 🔚 importcsvbom.txt 🗵								
7	Field	Field Name	Туре	Width I	)ec	Purpose		
8							The Fields highlighted in Megente are the fields	
9	1	BOMNO	Character	31	0	BOM Number	Magenta are the fields that are absolute	
10	2	BOMDESCRI	Character	35	0	BOM Description	minimum required to	
11	3	PRODCODE	Character	2	0	*** Not Used ***	import a BOM.	
12	4	CATINDEX	Character	3	0	*** Not Used ***		
13	5	PARTNO	Character	31	0	Part Number		
14	6	ITEMNO	Numeric	4	0	BOM Item Number	The fields highlighted in	
15	7	QTY	Numeric	12	4	Quantity per Assembly	Cyan are required if the BOM in your spreadsheet	
16	8	PART_ASSY	Character	1	0	Part, Assembly, or Labo	contains sub-BOMs or	
17	9	REFDES	Character	40	0	*** Not Used ***	you are importing multiple	
18	10	REFDES2	Character	40	0	*** Not Used ***	BOMs in a single	
19	11	REFDES3	Character	40	0	*** Not Used ***	spreadsheet.	
20	12	REFDES4	Character	40	0	*** Not Used ***		
21	13	ALTPARTI	Character	31	0	Alternate Part Number 1		
22	14	ALTPART2	Character	31	0	Alternate Part Number 2	The contents of the Fields highlighted in Yellow will	
23	15	ALTPARTS	Character	31	0	Alternate Part Number 3	be imported with any	
24	16	ALTPART4	Character	31	0	Alternate Part Number 4	parts that do not already	
25	17	ALTPART5	Character	31	0	Alternate Part Number 5	exist int the partmaster	
26	18	ALTPART6	Character	31	0	Alternate Part Number 6	database file.	
27	19	REFDESMEMO	Memo	4	0	Reference Designators		
28	20	KEYID	Character	32	0	Unique Key (System use (	only)	
29	21	STAGEBIN	Character	14	0	Staging Bin Number		
30	22	PARTDESC	Character	35	0	Used for Importing Only		
<u> </u>	++ m							
length :	1820 line	es : 31	Ln:1 C	ol:1 Sel:0		Dos\Windows	ANSI	11.

### This picture shows an Excel spreadsheet with the first row containing column headings.

Im	porting B	OMs Overview				
If you plan to import a multi level BOM or all your BO The file you are importing from must be structured below. If you are importing a single level BOM, the l BomDescri fields do not need to be included (pc/MF for these values).	as shown BomNo and	If the part number does not in pc/MRP's Partmast Data File, pc/MRP will add it alon the part description found PartDesc Column.	Base gwith	The Keyld Field in pc/MRP's BOM.DBF will automatically be filled by pc/MRP's		
Microsoft Excel - Bom.xls						
B       Edit       Yiew       Insert       Format       Iools $\Sigma \rightarrow \stackrel{\circ}{\rightarrow}$ Arial $\bullet$ 10 $\bullet$ B $\overline{\Sigma}$ $\overline{\Sigma}$ $\bullet$ $\bullet$ $\bullet$ $\bullet$		idow Help Adobe PDF 言言語 图 \$ %,	:00 [⊈≡	The first row can contain data or pc/MRP Field Names.		
A1 <b>f</b> bomno				7/		
	С	D	E F			
1 bomno bomdescri	partno	partdesc		assy refdesmemo		
2 000000010 WHEEL ASSY		BEARING, 3" OD x 1" II		R1.R5		
3 000000010 WHEEL ASSY	00000002	·	40 P \.			
4 000000010 WHEEL ASSY	000000013	LABOR INSIDE	10 L 🚺			
5 000000010 WHEEL ASSY		LABOR OUTSIDE	1 L \			
6 000000011 REAR WHEEL AXLE ASS'			1 P \			
7 000000011 REAR WHEEL AXLE ASS	/1000000010	· · ·	2 A			
Ready				f the Part_Assy Column is not included, all part numbers not		
If you are importing a single level BOM, the BomNo and BomDescri Columns are not required as pc/MRP will ask for the BOM Number and BOM Description. UtSource = for OutSource = for OutSource = for	art_Assy = ide labor ALSE or outside labor	Please Note: In this multi lev BOM example, the Rear Wr Axle Assy (000000011) requires 2 Wheel Assembli (000000010)	rel Pa eel Pa es 8.	ound in the Partmaster will be inserted as "P" Parts into the artmaster (If you are on version 3.72B through 8.90Y update to 90Z or 8.95L and higher). The Judit Inventory Program can be used to insert A's into all parts		
If your BOM levels are defined by a Level Column, call Software Arts for help with importing your BOMs. k:\v905\mportBomLevels.prg (not in Source Safe).						

Note that in a multi-level BOM, the BOM number (**BOMNO**) and description (**BOMDESCRI**) must be repeated for each item in that BOM. If a single level BOM, you do not need to include the BOM number or Description.

When you save an Excel file as a CSV file, Excel gives you several warnings. It is OK to just select "YES" each time as our goal is actually to get rid of all the formatting in the Excel file, and only keep the data.

If the part\_assy field is omitted or not completely filled out, some of the part\_assy data will be blank in both the Inventory and the BOM tables. You can run "Audit Inventory" (5.1.13) and then "Audit BOM" (12.10) to automatically fill out the data (except for labor items), however the best is to include the part\_assy field data in the import.

The Part\_Assy field will contain a "P" if it is empty when creating parts via importing BOM. Call Software Arts and ask the support person to enter a short script that will change the part\_assy field to "A" for all BOMs in your Part Master. Do not perform this if you have phantom BOMs.

File Edit	Search	'king.txt - Note View Encodin a To a a a a a a a a a a a a a a a a a a	g Langua	dditional	Parl	OMs Optional tmaster Fields 2 and Higher	v ? I I I I I I I I I I I I I I I I I I I	
865							With no/ME	P Versions 8.72 and
	Field	Field Name	Туре	Width I	Dec	Purpose		add these columns to
867								port file, additional part
868	9	REVLEVEL	Character	3	0	Revision Code		an be imported into the
869	33	STDCOST	Numeric	14	6	Standard Cost		abase file. provided the other of the other of the other of the other other other other other other other other
870	5	MANUFACTER	Character	25	0	Manufacturer 1		artmast file.
871	6	MODELNO	Character	23	0	Model Number 1		
872	11	POUNIT	Character	6	0	Purchase Order U		
873	20	LTIME	Numeric	6	3	Lead Time (in we		
874	18	MINQTY	Numeric	13	3	Minimum Stocking	· · ·	
875	12	PORATIO	Numeric	14	6	Purchase Order H		
876	13	UNIT	Character	6	0	Stocking/Sales U		
877	19	MAXQTY	Numeric	13	3	Maximum Stocking	•	
878	22	SALEPRICE	Numeric	14	6	Sale Level 1, Pi		
879	29	LOCATE	Character	6	0	Location in Prin	mary Stores	
880								
881	10	COST	Numeric	14	6	Average Cost		
882	106	FOOTPRINT	Character	64	0	Orcad Footprint		
883	145	ROHS	Logical	1	0	RoHS Compliant		
884	194	AUX1	Character	30	0	Auxiliary Field		_
885	195	AUX2	Character	30	0	Auxiliary Field		
886	38	MODELN02	Character	23	0	Second Model Nur	aber	
887	39	MODELNO3	Character	23	0	Third Model Numb	ber	
888	34	MFG2	Character	25	0	Second Manufactu	ırer	-
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881	10	COST	Numeric	14	6	Average Cost	
882	106	FOOTPRINT	Character	64	0	Orcad Footprint	With pc/MRP Versions
883	145	ROHS	Logical	1	0	RoHS Compliant	9.12E and higher, if you
884	194	AUX1	Character	30	0	Auxiliary Field 1	add these columns to
885	195	AUX2	Character	30	0	Auxiliary Field 2	your BOM import file, even more additional
886	38	MODELN02	Character	23	0	Second Model Number	part information can be
887	39	MODELNO3	Character	23	0	Third Model Number	imported into the
888	34	MFG2	Character	25	0	Second Manufacturer	partmast database file.
889	35	MFG3	Character	25	0	Third Manufacturer	provided the part does
890	8	DRAWINGNO	Character	15	0	Drawing number	not already exist in the partmast file.
891	31	ORDQTY	Numeric	9	2	Recommeded Order Size (MR)	
892	100	PARTTYPE	Character	20	0	Orcad Part Type (Res,Cap)	·
893	101	VALUE	Character	20	0	Orcad Part Value (5 Ohm )	
894	104	PACKTYPE	Character	20	0	Orcad Package Type (TO3)	
895	105	SCHEMATIC	Character	84	0	Orcad Schematic Name	
896	62	ALTPART1	Character	31	0	Alternate Part Number 1 /	
897	63	ALTPART2	Character	31	0	Alternate Part Number 2 🖊	/
898	64	ALTPART3	Character	31	0	Alternate Part Number 3	
899	24	ALTPARTNO	Memo	4	0	General Info	
900	50	WEIGHT	Numeric	12	4	Unit Weight	
901	147	SHIPPABLE	Logical	1	0	Identifies a shippable ite	en 💻
902	120	OUTSOURCE	Logical	1	0	Outside Labor / Noninv. Pa	art
903	32	ORDMULT	Numeric	9	2	Buy in Multiples of (MRP)	
904	14	ONHAND	Numeric	13	3	Quantity in Storage Area 1	
 ngth : 49	057 -	es : 1066	Ln:903 C	ol:13 Sel:0		Dos\Windows 4	

## This picture shows a BOM exploded report of the BOM structure within pc/MRP.

Another way of showing how pc/MRP organizes entries in the BOM module is to see a report. Take a moment to view the example report below. The report below is the exact same information as pictured above simply presented in a different format.

BOM NUMBER	:00000011 REV	: BOM STATUS: Released		
BOM DESCRIPTION	:REAR WHEEL AXLE ASSY	MODEL NO:		
DATE	:04/05/2011 02:18:03 1	PM		
QTY	:1.0000			
UNCOSTED EXPLODED LEVEL BOM REPORT				
P/B ITEM BOM/PART	NUMBER	DESCRIPTION		
PART 0002 0000000	03	REAR AXLE		
BOM 0001 0000000	10	WHEEL ASSY		
.PART 0001 000000	001	BEARING, 3" OD x 1" ID		
.PART 0002 000000	002	SPOKE		
.LABR 0003 000000	013	LABOR INSIDE		
.LABR 0004 000000	014	LABOR OUTSIDE		

Now in the process of comparing the two reports, notice that BOMNO 000000011 contains one sub-assembly and one part. Within BOMNO 000000011, BOM 000000010 exists. This BOM contains 2 parts and two labor items. We distinguish between parts and assemblies by using the Part\_Assy field using an A for assembly, L for labor, and P for parts. As you can see, a BOM can call an assembly. This BOMNO calling an assembly (and later the assembly calling additional assemblies) allows pc/MRP to have infinite levels for an indented Bills of Materials.

Stated in a different way, the Bicycle's TOP ASSEMBLY calls for several parts, one being an assembly. The assembly it calls for is 000000010. We know 000000010 is an assembly because it has an A in the Part\_Assy field. Further down on the BOMNO column 0000000010 is called. This BOMNO calls for a few more parts, 000000001 and 000000002 (we know that these are parts because they have a P in the Part\_assy field) and labor items 000000013 and 000000014.

If your intention is to import BOM data with multiple levels, you will need to format your bills of materials and subassemblies in the format exactly as described above. If you plan to import your BOM data into pc/MRP with only one level, pc/MRP can use the same BOMNO for each PARTNO.

The BOM module uses three different files: partmast.dbf (Inventory), BOM.DBF, and BOM.DBT. In inventory this part can be only listed once. In the BOM module this part can be listed as many times as needed. All inventory data is stored in the partmast.dbf. All BOM data or recipe data is stored in the BOM.DBF and BOM.DBT. A BOM number is also stored in the inventory database table.

Below is a list of the required field names and use for each record of a BOM in the BOM DBF. Key fields are fields that must exist and have contents for a successful import.

KEYID – Do not include this field as pc/MRP will automatically fill this field
BOMNO - BOM Number KEY FIELD (15 char max). If left blank, pc/MRP will ask for a value. If a multi-level BOM import, this field is required to have data.
BOMDESCRI - BOM description KEY FIELD (35 char max). If left blank, pc/MRP will ask for a value. If a multi-level BOM import, this field is required to have data.
PARTNO - Part Number KEY FIELD (15 char max)
ITEMNO - pc/MRP organizes everything in lists. This numerically orders each item in a given level of a BOMNO key field. (numeric integer field)

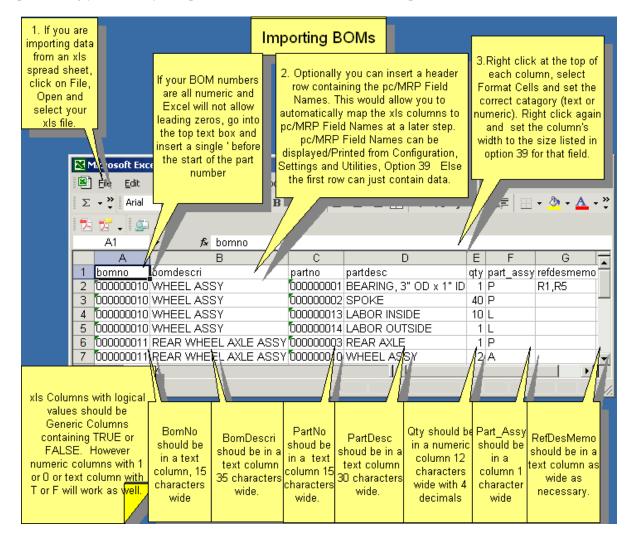
QTY - The quantity of the item needed in that specific level to finish that specific level. KEY FIELD (numeric, 8.4, 12 total)

PART\_ASSY - This field labels this line item as a Part, Assembly or Labor. KEY FIELD (1 char). Will default to "P" if omitted or invalid.

- REFDESMEMO This field uses the BOM.DBT file and stores the reference designators or locators. This field in Excel is a char field; max length is what your version of Excel supports per cell. If your reference designators exceed 254 characters, see Section 8 "Importing large fields into pc/MRP" later in this chapter
- PARTDESC field contains the name for the part and is used when added to the partmaster if it does not already exist in the partmaster table. (35 char max)

## Step 2, Format the BOM spreadsheet and save as a CSV file with or without column headers

After performing your edits, your spreadsheet should look similar to the picture below.



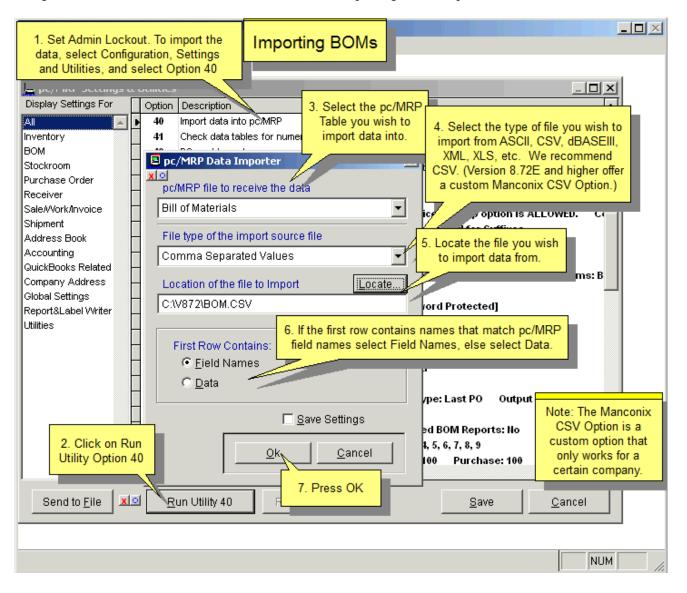
Note: The Excel file should NOT have any hidden columns or frozen panes.

Now save as a .CSV (comma separated values) file for import.

When you save an Excel file as a CSV file, Excel gives you warnings about features that are not compatible with CSV. Just select "YES" each time, as our goal with saving as CSV is exactly that: to get rid of Excel's formatting and just to keep the data.

## Step 3, Finishing up with Option 40:

It is a good idea to set an Administrative Lockout before importing data into pc/MRP.



### Step 4 Import the data into the BOM database

The first row contains header information so select "Field Names" for the "First Row Contains" selection.

	V854 (User: DOUC ools Optional Conf	iguration Manual D Importi	ng BOMs	
	🛢 pc/MRP Data Im	porter		×
<u>.</u>	Bill of Materials	Database Structure		Import File
Dis All	Field Name	Purpose	Filled By	Field Name
Inve	BOMNO	BOM Number	BOMNO 🗾	BOMNO
BOI	BOMDESCRI	BOM Description	BOMDESCRI	BOMDESCRI
Sto	PRODCODE	*** Not Used ***		PARTNO
Pun	CATINDEX	*** Not Used ***		
Rec	PARTNO	Part Number	PARTNO	
Sale	ITEMNO	BOM Item Number		If you are importing and one or mor
Shi⊧	QTY	Quantity per Assembly	QTY	BOM Description Fields are empty
Add	PART_ASSY	Part, Assembly, or Labor	PART_ASSY	Version 8.72K and higher WILL NC let you import. Prior to that, pc/MR
Acc	REFDES	*** Not Used ***		would ask you to enter a description
Qui Con	REFDES2	*** Not Used ***	1. Since the first row has column	
Glol	REFDES3	*** Not Used ***	names that match pc/MRP's field	that description into every record
Rep	REFDES4	*** Not Used ***	names, Autosync will	with an empty BOM description. I you pressed OK and not Cancel th
Utili	ALTPART1	Alternate Part Number 1	automatically map the columns to the pc/MRP fields. If the first row	and the second off and the second state of the
	ALTPART2	Alternate Part I	contained data you would have to	
	ALTPART3	Alternate Part N Save Restore	manually map the columns on the	are importing and every BOM
	ALTPART4	Alternate Part I Import Import	right to the pc/MRP Field Names o	Number is missing, pc/MRP will as
	ALTPART5	Alternate Part I Map Map	the left by clicking on the left	you to enter the BOM Number.
	ALTPART6	Alternate Part I	columns and double clicking on th pc/MRP Field Names on the right	
	REFDESMEMO	Referance Des <mark>/</mark> g_ator	permiter held Names on the right	<ul> <li>WARNING! "Remove current record and insert new records" does just</li> </ul>
	Lizevin	Unique l/ov/90 com for only		that, it will delete all the records in
			<u>itosync</u> C <u>l</u> ear All	the current database and then only
	☐ Import Method			add the new records! This Option
		w records to the data table		was removed in 8.72 and added back in 8.82G and higher. If you
		irrent records and insert new reco	ords <u>O</u> k	select "Remove", Version 8.82G and
				higher will copy the current BOM
	2. If v	ou are adding to a table, select	Append. If you wish to	table into a subfolder named
		ALL existing BOMs and repla	ce them. Select Remove	"Importer" prior to the importing the new BOM table.

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. If you select Remove, pc/MRP will create a backup in the Importer subfolder. The application defaults to "Append".

**Note:** See Section 8 "Importing large fields into pc/MRP" later in this chapter if you also import **Reference Designators**.

**Note:** Users can import data into several fields of the Partmast table, along with the BOM import. See the list of the fields above. This part information will only be imported if the part does not already exist in the Partmast table. If it does, pc/MRP will ignore the part data (will not import the part data, and will not ask whether you want to keep the old or new parts).

## If One or More BOMs Already Exist in pc/MRP

VFP - C:\V872 (User: DOUG) Modules Tools Optional Configu	ation N Importing BOMs	
Bill of Materials That Are Ex X I	isted the	
The Top BOM(s) and/or the	Sub BOM(s) already exist in the BOM.dbf table.	
BOMNO	Description WHEEL ASSY	module to change access right
▶ 000000010		RB; 3 R&D ; 4 DEMO ; 5 INCOM Costs are NOT hidden.
		nat: On
pc/MRP v	database file. original	ption will get rid of parts in the I BOM that are not listed in the OM. Versions 8.72D and lower do not offer this option.
Select an option below for	importing the above BOM(s)	Area7
C Merge and Delete any N	nal BOM(s) and Insert the New BOM(s) from the Impo ew Duplicated BOM Record(s). riginal Duplicated BOM Record(s). ted BOM Records	ort File. (ed Multiple items: Block) d]
		Save Cancel Utilities, Option 51 is not set to allow
Existedbom		e times this option will be disabled.

#### Example:

Bom# TESTBOM has 3 parts: y1, y2 and y3. We want to change it to have y3, y4 and y5.

Some fields might have different values in the new y3 than they had in the original y3. The new BOM also has y3, but maybe with a different quantity per assy.

pc/MRP detects that the BOM# TESTBOM already exists, so it asks you what you want to do.

Here are the results for the different selections:

- (1) remove and insert: y3, y4, y5 y3 will be the new version
- (2) merge, delete new: y1, y2, y3, y4, y5 y3 will be the old version
- (3) merge, delete original: y1, y2, y3, y4, y5 y3 will be the new version
- (4) merge, allow duplicates: y1, y2, y3, y3, y4, y5 y3 will be listed twice, old and new

This last selection is only available if Option 51 is set to allow duplicates.

#### Note: Manconix CSV Option only

The Manconix Option expects a custom Manconix XLS file saved as CSV file. This option will automatically select Bills of Materials and use a custom template. It expects to find the Top BOM No at row column 1,7 and the Top BOM Description at 2,7. It then deletes first 5 rows. It will continue to delete rows until it finds a row where the first character of the first column is a digit as this represents the level number within the BOM.

The code found in Importer2.scx AutoSyn\_Manconix automatically creates the manconix mapping template.

Column Field Contents

- 1. BOM Level
- 2. Item No
- 3. PartNo
- 4. RevLevel
- 5.
- 6. Part Description
- 7. Manufacter
- 8. ModelNo
- 9. VendName
- 10. VendID
- 11. PoUnit
- 12. Qty
- 13. RefDesMemo
- 14 Part\_Assy
- 15. StdCost
- 16.
- 17.
- 18. LTime
- 19. MinQty

# 15.11.6 Sales Orders

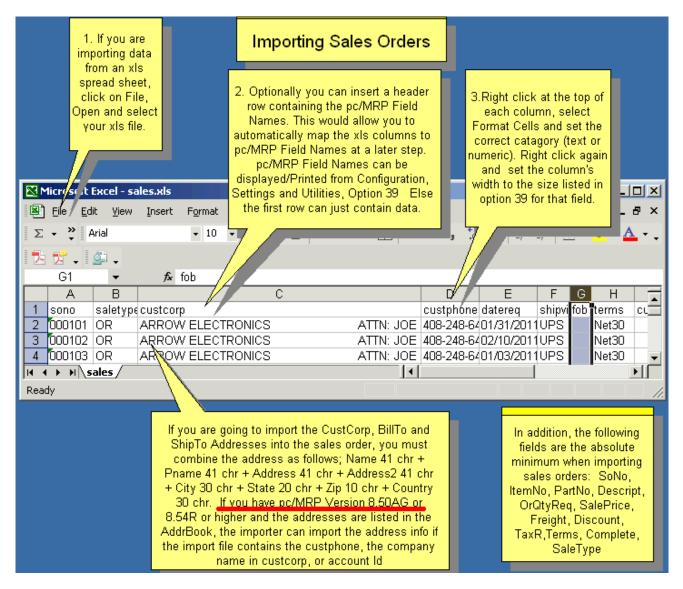
Importing POs would be very similar.

Step 1 Use Option 39 to print out the sales.dbf file structure.

VFP - C:\V8 Modules Tools			ration Mar <mark>Selec</mark> t	ting Configuratio	n. Settinas	and Utilit	es, Option 39.	×
			and	SÄLES.ĎBF w DRBOOK.DBF	ill allow you	to display	y or print the	
🧕 pc/M	RP Settin	ıgs & Utili	ities					
Display S	Settings For	r 🔤 Op	tion Description			Setting		
All			9 Print/Display th	e file structure for	a selected DE			
🛄 pc/MRP Ta	able Struc	tures		X RP		[Utility]		
xo					ld overflows	[Utility]		
C <u>A</u> ctual T	able Stru	cture	<u>S</u> croll			Vendor P	rice List or the area when receiving	
				ving area efaults		· ·	ost: Average Quantity to is	
,				ive option		Yes		
	C:\V8				ad++			xI
SALES			View Encoding			un TextF		X
							🖪 🖼   🏣 1 ] 🏼 🖉   💽	»
• ASCIL <u>T</u>	] • •					000		
<b>v</b> 0	🔚 sales.	csv 🔀 🔚	SALES.TXT 🔀 🔚	importesvaddr.txt	🗵 🔚 import	osvsale.txt	×	_ 1
O HTML (	2	Dicton	ary Table St	ructure for	SALES.DH	BF	-	
이 되	3	Used b	y Module: Sa	les Order				
	4							-
Output Fo	5							
	6		= Field Name	Tuno	Width	Dog	Burnege	
		rieiu	Field Name	Туре 	width	Dec	Purpose	
			_					
	8	1	SONO	Character	6	Ο	Sales/Work Order Number	
_	9	2	CUSTCONT	Character	20	0	Customer Contact	
	10	3	SALETYPE	Character	2	0	Type of Sale	
	11	4	CUSTCORP	Character	254	0	Customer Address	
	12	5	COMMENT	Memo	4	0	Comments for item	
	13	6	CUSTPHONE	Character	25	0	Customer Phone Number	∥⊔
	5444 char:	s 5622 b	Ln:30 Col:19 5	5el : O (O bytes) in I	) ranges	D	os\Windows ANSI INS	//.

Please note the field names as they are useful when selecting the Autosync option when importing with **Option 40**.

## Step 2 Format the Sales Excel file data and save as a CSV file with or without column headers

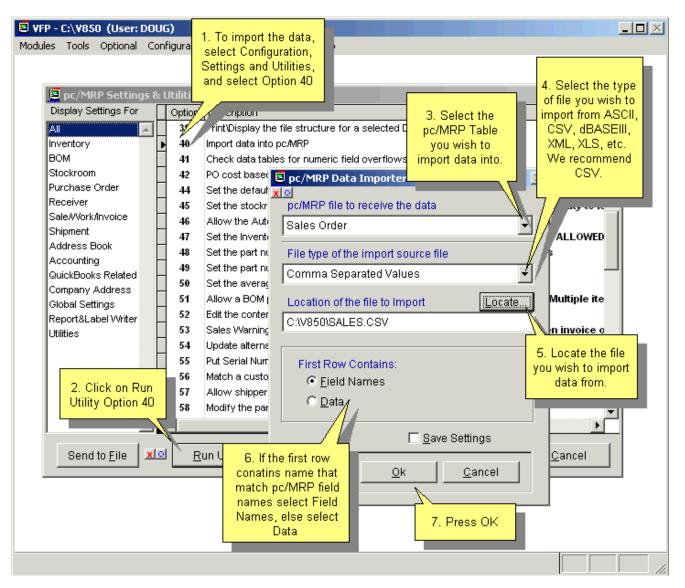


Please note that the structure of the CustCorp, BillTo, & ShipTo fields are concatenated fields described in Section 15.4.4.2.

When you save an Excel file as a CSV file, Excel gives you warnings about features that are not compatible with CSV. Just select "YES" each time, as our goal with saving as CSV is exactly that: to get rid of Excel's formatting and just to keep the data.

## Step 3 Using Option 40 to Import Sales Order Data from the CSV file

It is a good idea to set an Administrative Lockout before importing data into pc/MRP.



Remember to select the FIELD NAMES for the "First Row Contains" selection.

_	•	figuration Manual Developer Help				
	pc/MRP Data In	nporter		X		
Dis X	Sales Order	Database Structure		Import File		
All	Field Name	Purpose	Filled By	Field Name		
Invi	SONO	Sales/Work Order Number	SONO 🔺	SONO		
BO	CUSTCONT	Customer Contact	CUSTCONT	CUSTCONT		
Sto Pur	SALETYPE	Type of Sale	SALETYPE	SALETYPE		
Rec	CUSTCORP	Customer Address	CUSTCORP	CUSTCORP		
Sal	COMMENT	Comments for item				
Shi	CUSTPHONE	Customer Phone Number	CUSTPHONE	BILLTO		
Adu	BILLTO	Bill-To Address	BILLTO	SHIPTO		
Aci	SHIPTO	Ship-To Address				
Qui	DATEREQ	Date Required	1. Since the first row	has column names that match		
Cor	SHIPVIA	Ship Via (UPS, FED EX, etc)	pc/MRP's field names, Autosync will automatically map			
Glo	FOB	Freight on Board	the columns to the pc/MRP fields. If the first row			
Rep	TERMS	Sale Terms		vould have to manually map the		
Utili	CUSTPONO	Customer PO number		the pc/MRP Field Names on the		
	ORDERDATE	Date Order wa		eft columns and double clicking or		
	SALESMAN	Salesman Save Restore	the pc/MRP F	field Names on the right.		
	TERRITORY	Sales Territory Import Import				
	ITEMNO	Item Number Map Map		DESCRIPT		
	DESCRIPT	Item Descripti	RIPT			
	PRODCODE	*** Not Used */*	RODCODE			
		*** Not Llood ***		WARNING! "Remove current		
			tosync Clear All	records and insert new records		
				records and insert new records does just that. It will delete all		
	┌ Import Method		tosync <u>Cl</u> ear All	records and insert new records does just that. It will delete all the records in the current		
	Import Method C <u>A</u> ppend ne	ew records to the data table	tosync <u>Cl</u> ear All	records and insert new records does just that. It will delete all the records in the current k database and then only add the		
	Import Method C Append ne		rds	records and insert new records does just that. It will delete all the records in the current		

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. The application defaults to "Append".

The import will automatically update the Inventory's On Demand Quantities. Importing POs will automatically update the Inventory's On Order Quantities. **Note:** versions **9.10C** and below did not update On Order Quantities.

## 15.11.7 Saving as a DB-III file from Excel 2003 and earlier.

- 1. Enter the data to be imported into an Excel spreadsheet.
- 2. In Excel, you must have the first row containing the column headings.
- 3. Select File, Save As, and select the DB-III or DB-IV file format.
- 4. In Option 40, select the "pc/MRP Data file to receive the data" from the dropdown list
- 5. Select the DB-III import file for "File Type of the Import Source File"
- 6. "Locate" the dBase file to import
- 7. Select Field Names for the "First Row Contains" selection
- 8. Press OK and continue to the second screen
- 9. Press "Autosync" to match the column headings with the pc/MRP field names. If the names are spelled different or named differently, you will have to manually map the data by clicking both sides that are to match and pressing "Select"
- 10. Select "Append..." or "Remove..."
- 11. Press OK to import the data

**PLEASE Note: The Import Method "Remove current records and insert new records" does just that. It will delete all the records in the current database and then only add the new records!** This option is intended for companies in the process of implementing pc/MRP, in case the user made a mistake when importing, and needs to start from the beginning. The application defaults to "Append".

## 15.11.8 Importing large fields into pc/MRP.

Follow the steps below if you are importing large fields like **Reference Designators** into the BOM module or the **General Info** field into the Inventory module.

**Note:** Since Versions **8.72E** and higher pc/MRP can import more than 254 characters into the REFDESMEMO field. **8.72AD** and higher includes a progress bar. If you are importing a very large number of BOMs at the same time <u>and</u> some of your reference designators are longer than 254 characters, the import can take a long time. **8.73K** and higher displays the estimated time to import your file. The following example resulted from attempting to import over 60,000 records. You might want to import your BOMs in batches, rather than all at once.

pc/MRP for	or Windows - Version 8.73M (User: KK)	<u> </u>					
Modules Tools	s Optional Configuration Manual						
🚊 pc/MRP S	Importation Warning	1					
Display Setting		Ĩ					
All	You have selected to import data into one or more infinite length (Memo) fie	lds.					
Inventory BOM	These fields require special data parsing if any of the data to be imported will	exceed 254 characters.					
Stockroom	This required parsing process is very slow on larger import files. Doubling a	n import file's size will					
Purchase Orde	increase the process time by a factor of 5.						
🚊 pc/MRF	It is estimated that importation of your current file will take 1 Hour, 29 Minutes	to complete.					
Bill of Ma	f M: If you are sure that none of the import field data will exceed the 254 character limit, you can bypass the parsing process - thereby greatly reducing the import time.						
Field Na	If bypassing, please note that any excess field data will be cut-off at 254 chara	octors					
REFDE	in bypassing, prease note that any excess nero data will be curon at 234 chara						
( REFDE							
I ALTPAF							
ALTPAF	<ul> <li>None of my neros exceed 204 characters. [Dy-pass the special parsh</li> </ul>	ng process]					
ALTPAF							
ALTPAF							
ALTPAF							
	SMEMO Referance Designators REFDESMEMO	_1 . Cost Roll-i					
KEYID	Unique Key (System use only)						
	Autosync Clear All << Selec	t					
		a6, Area7, Are					
	MRP Version M and higher	ms: Blocked					
0.70							
Send to <u>F</u>	ile Run Utility 40 Reyert Option 40 Sav	/e <u>C</u> ancel					
n_data (c:\users	s\richard\appdata\local\temp\55543238.dbf) Record: E0F/61025 Exclusive						

## 15.11.9 Possible Problems with Importing Excel Files

- Your Excel file contains hidden columns.
  - To display the hidden columns, press Ctrl-A. Select File, click on New, select Edit, select Special Paste, and select Values. All of the hidden columns will now be displayed. The new columns can now be edited or deleted.
- Your dates are not right.
  - Make sure that the Excel file contains dates in a MM/DD/YYYY format. You might need to create a custom format in Excel for that.
- Your text fields are truncated.
  - Any char field that exceeds the length of the field in pc/MRP will be truncated to the length accepted in pc/MRP.
- You get an error that pc/MRP needs exclusive assess to the file that is going to be imported.
  - The file is still open in Excel or another program.
  - You have not selected the correct file type to import.

You are done. You should understand by now that this is complicated. Importing however is easy to do if you follow the rules. The most important rule is to have back-ups. If you have questions or would rather have Software Arts import your data, call. Reading this is free. Having us walk you through this or do this ourselves requires the use of support time.

# **15.12 Tracking Serial Numbers**

## 15.12.1 Overview

pc/MRP comes standard with the ability to track one serial or lot number per Sales Order line item.

The **optional** Serial/Lot Number Tracking Module allows users to track an infinite number of serial numbers per line item. For companies with the need for an advanced serial/lot number tracking method, Software Arts, Inc suggests to use the Optional Serial/Lot Number Module, covered in detail in Ch. 16.10 in this Manual. The optional Serial/Lot Number module allows the user to issue, invoice, receive, and track an infinite number of serial or lot numbers per line item. In fact, each item in inventory can have a serial number and be issued, received, and shipped by serial number.

## 15.12.2 Tracking Methods (with the standard module)

Either or both of the methods listed below can be used.

- The Address Book, Sales Order, Receiver and Invoice Modules can record the serial number of an item by entering the serial number into the 15 character Serial Number field. Sales Orders, Invoices, and Shippers can be configured to print out the Serial Number or the Model Number using the Configuration Menu's Change Boiler Plate Option. (If you need both, you can create a custom report.) You can print out All Receivers, Sales Orders and Invoices for a Serial Number.
- The Stock Transaction Module can be used to track serial numbers by answering "Y" to tracking lot numbers and then entering the serial number into the lot number field. The Stock Room Reporting Module will provide a record of all transactions for a specified lot number (serial number).

# 15.13 Updating pc/MRP

## 15.13.1 Overview

There are two kinds of updates.

A new pc/MRP **version** has changes in a database structure. Software Arts, Inc releases a new version about once a year. You will see a number change, like from 9.10 to 9.11 or from 9.00 to 9.10. At the time of the releasing this Manual, these updates are only available (and they are free) for our customers on a Support Contract. These updates require an administrative lockout, a full backup, and a total of about 25 minutes of time.

A **revision** update goes for example from 9.10D to 9.10E. These contain no database structure changes, and they can be done from the configuration menu by the user, just about any time. Software Arts, Inc recommends users perform a revision update about once a month. These contain minor improvements, and mostly bug fixes. You do need to set an admin lockout before the update, but the backup is optional. The total downtime is usually 2-3 minutes.

Users can learn about the changes in pc/MRP from Software Arts' web site: http://www.pcmrp.com/910update.htm

## **15.13.2 Version Updating Instructions**

- 1. Call Software Arts if you have any difficulties in following the procedures below.
- 2. If you have a multi-user copy of pc/MRP, make sure everybody has logged off pc/MRP before starting this update.
- 3. Select Configuration, User Connectivity and Administrative Lockout. Click "Set administrative lockout". Wait until the "You are the only user currently accessing the pc/MRP Application" message appears.
- 4. Exit from pc/MRP.
- 5. Make a back-up copy of the current production pc/MRP directory and all of its contents (usually named '...\PCMRPW').
- 6. Make sure that no files in the pc/MRP directory are attributed read only.
- 7. Single click on the URL in the email containing the update .exe file.
- 8. When prompted select Save As.
- 9. Browse and select your desktop to store the update .exe file.
- 10. Once the download is complete, double click on the new update .exe file.
- 11. The update program will ask you to browse and locate the pc/MRP directory.
- 12. Clicking Next will extract and copy files into the pc/MRP directory.
- 13. Click on Finish to exit from the update program.
- 14. Start pc/MRP, it will detect that it has been updated and make any necessary changes to pc/MRP to apply the update.
- 15. Verify the pc/MRP data.
- 16. Remove the Admin lock you set in step 3.
- 17. Now you can delete the update .exe file from your desktop.

Note: To minimize downtime, perform the backup from the server. Download the .exe file ahead of time.

## **15.13.3 Revision Updating Instructions**

See a detailed slide show at <u>http://www.pcmrp.com/mrp101/uconnintro.htm</u>.

- 1. Set Admin Lockout as in Step 3 above.
- 2. Exit pc/MRP.
- 3. Create a copy of the current production pc/MRP directory and all of its contents (Usually named '...\PCMRPW').
- 4. Re-start pc/MRP and select Configuration, Download & install a new revision.
- 5. pc/MRP will re-start and finish the update if needed.
- 6. Verify the pc/MRP data.
- 7. Remove the Admin lock you set in step 1.

## 15.13.4 Revision Update Reminder

The following window will appear if you have not updated pc/MRP in 60 days.

Update	Reminder		
	Weve noticed that your software have Keeping your software up to date e features and fixes available. To find revisional updates for your For information on the newest vers <u>Follow this link.</u>	ensures that you have all the current version, <u>Click here.</u>	
	Remind me the next time Hogin Remind me the next time Hogin Remind me temmarrow Remind me in une week Remind me in two weeke	Close In versions 8.20 and above, this pops up if you have not update within the last 60 d Chcose an option to delay	ed your pc/MRP days.

## **15.13.5** Possible Installation Errors (for version update)

- While installing the update from the update.exe file, the update program asks for disk two. Recover from the back up, and re-download the update EXE file. This time, once the download is complete, make sure the file size of the update .exe file is equal to the file size next to the URL link within your e-mail.
- While installing the update from the update EXE file, an error is generated. Either a file is attributed read only or a user is still using pc/MRP. Recover from the backup and start over. If this error persists, call Software Arts with the error on the screen.
- After installing the update EXE file and starting pc/MRP, pc/MRP does not detect an update is in progress. The update files were installed in the wrong location. Re-install the update. This time, after browsing for the path, visually verify that the path is correct.

## Also see Chapter 17.7.

# **15.14 Common pc/MRP Functions**

Note: pc/MRP offers the usual Right Click – Cut – Copy – Paste functions.

## **15.14.1 Queried Searches**

The **Queried Search** tab in most scroll screens allows users to build, run, save and load queries. The query can be run against any field in that specific module including the comments of each record.

Address	Book Data	base			_ 🗆 ×
	Indexed \$	Bearch (Fastes	st)	Queried Sear	ch
Field	Not	Operator	Value	Match Case	Query Type
Id	□ [	Equal To	•		Exclusive
Name		Equal To	•		Run <u>Q</u> uery
Pname	□ [	Equal To	•		
Address		Equal To	•		🖻  🗙
Id		Name		Pname	Addres 🔺
					<b>V</b>
	€ ⊻iew © <u>E</u> dit			Qk	<u>C</u> ancel

## 15.14.1.1 Creating and Running a New Queried Search

The Queried Search tab screen is the same for every module. Only the list of fields change according to the fields available in each module. The above example is from the Address Book Database.

Click on the Queried Search tab. The top window has each **Field** in the table. In that window, users can scroll up or down to view additional fields of that table. Each row is the queried value of that Field. Within each row, users can define:

- Not: check box
- **Operator**: Equal To, More Than, Less Than, Contains, Is Empty, In List, In Range (a "|" separates values in a list or range). 'Contains' is not valid for date fields such as OBSDATE or DATEREQ.
- Value: the actual search value
- Match Case: matches upper, lower, or mixed case.

When the query is ready to run, simply press the **Run Query** button. The bottom window contains the results of the query after it is run.

#### Notes:

Equal To' is actually a 'Begins with' operator.

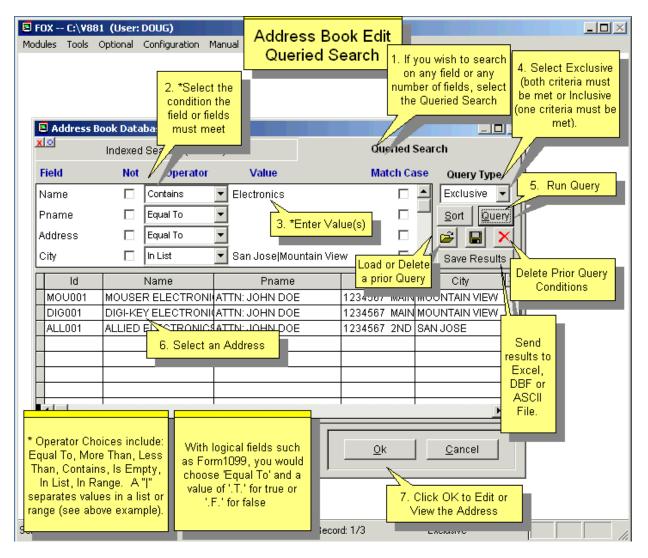
**'Contains'** does not use the "|" as there is only one value that 'Contains' looks for in the field. You can even have a value of "this and that" and it will find the exact data string <u>wherever it is located in the field.</u>

'In a Range' is for from/to values; e.g. Name, In a Range, "adj|ann". Will return all <u>starting</u> values from adj thru ann. Notice, no spaces.

'In List' is for an exact <u>beginning</u>; e.g. selecting Name, In List, "eng|con" will only return values beginning with 'eng' and 'con'. Again, no spaces.

As you can see, 'In List' and 'Equal To' are very similar.

Example 1: If you wanted to search for a customer name of ELECTRONICS, you could set the query to search for a NAME of ELECTRONICS. If NAME only started ELECTRONICS, the operator could be left as Equal To, however we may have last names or multiple names in the NAME field. Thus, change the Operator to Contains. Click on the Query button to run the query.



Every Address Book entry that contains a NAME of ELECTRONICS will then be listed in the scroll screen.

Every field can contain a query value to further build specific constrains for the query. The ability to enter multiple constrains allows users to further narrow the search down to the criteria specifically desired.

Example 2: If we were to want to see all Address Book entries for the PNAME of JOE that do not reside in the City of San Jose, we could scroll to the City field, enter a check in the Not field, an Operator of Equal To, and a Value of San Jose. For LOGICAL fields such as Form 1099, you would choose Equal To and a value of '.T.' for true or '.F.' for false. A date field is entered as mm/dd/yyyy.

Field	Not	Operator	Value	Match Cas	se
Pname		Contains	JOE	□ -	•
Address		Equal To	•		
City	ସ	Equal To	🗾 San Jose		
State		Equal To	•		-

Users can further define multiple constrains through the **Query Type** field. The Query Type allows users to define the query as **Exclusive** or **Inclusive**. A query with multiple constraints that is Exclusive must meet all of the criteria to be listed in the scroll window. A query with multiple constraints that is Inclusive must meet only one constraint to be listed in the scroll window.

By example, if we were to search for an Address Entry that either has a PNAME of JOE or resides in San Jose, the Query Type would need to be set to Inclusive.

## 15.14.1.2 Saving, Loading, and Deleting a Queried Search

Once the query has been built, it can be saved for future use by pressing the disk save button.


A name and description can be defined per query. Queries can also be saved and made available to all users or just the user that created the query.

Save Query	×
Name of Query JOE_1	
Query Description	
SEARCH FOR JOE NOT IN SAN JOSE	A F
Make this query available to other users	
<u>S</u> ave <u>C</u> ancel	

To load a previously created Queried Search press the load from folder button.



Once a user presses the load from folder button, all that are available to that user will be viewable.

E	Load Query		×
	Available Queries	Creator	
	CUSTOMER REFERENCES	DOUG	*
	Customer references	RON	
	JOE_1	BRENT	
	REFERENCES	DOUG	7
	Query Description		
	SEARCH FOR JOE NOT IN SAN JOSE		A V
	Load Delete	<u>C</u> ancel	

From this screen, queries can be loaded or deleted.

**Note:** Only the user logon that created the query can delete it. However, Configuration, Settings and Utilities, Option 96 can be used to delete all of a user's edit, report, import lists.

## 15.14.2 Indexed Searches

and Edit Preferences. Save Settir Color Col Go Top Go Bottor	Search y way to ress. ok Databe Indexed Search (Faste Company Name Company Name 2. Enter first company Name	Queried Search Include No Selections Search Search
Right Click Code	Company Name	Attention:
display the BC001	ARRO 4. Select Address	ATTN: JOESPH CARTRIGHT THE 3R
color BC001	BBC M	ATTN: JOE SMITH
definitions. AL001	CA STATE BOARD OF EQUALIZATION	ATTN: DEPT 99
AN001	CANA MANUFACTURING CORPORATION	ATTN: JOESPH CARTRIGHT THE 3R
JIG001	DIGI-KEY ELECTRONICS	ATTN: JOHN DOE
MOU001	MOUSER ELECTRONICS	ATTN: JOHN DOE
ORE001	OREGON STATE BOARD OF EQUALIZATION	ATTN: DEPT 2
		5. Press OK
	⊻iew Edit	<u>O</u> k <u>C</u> ancel
Select Edit or View, Save Settings will store your preference		

Selecting an Indexed Search allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an Indexed Search, select the following:

- 1. Select the Indexed Search tab
- 2. Select the desired **Sort Order** from the dropdown list.
- 3. Enter the search data in the **Begin Scrolling at:** field.
- 4. Select the desired action, View or Edit
- 5. At this time, you can press the **Save Settings** button which saves the selected settings for your logon name.
- 6. Press Search

pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press OK to proceed to the edit or view screen for that record.

Note: Some modules will have an Include dropdown list to select from.

## 15.14.3 Re-index a Database Table

Re-creates the Index Files to the associated module. pc/MRP automatically updates its index files under normal operation. However, if you ever get a "record out of range" error message, re-indexing the index file is usually the cure. Re-indexing is wise to do after a heavy editing session or after adding many transactions simply as a precautionary step. It is important to set an **administrative lockout** before re-indexing.

pc/MRP V9.50

## 15.14.4 Remove Marked Records

Removes <u>from the disk</u> all of the records that were previously marked for deletion (in the associated module). It is important to set an **administrative lockout** before removing marked records.

pc/MRP will automatically create backup files of the databases in the PACK directory prior to any removal of records. pc/MRP does this in case any hardware problems occur during the removal process.

**Note:** Since Sales Orders and Work Orders are stored in the same database table, removing marked Work Order records will also remove marked Sales Orders records, and vice versa. If you want to keep all records in one module and only want to remove marked records in the other module, call Software Arts for assistance.

## 15.14.5 Remove Over X Years

Applies to:

- Stockroom data
- Purchase data
- Receiver data
- Work Order and Sales Order data
- Invoice data
- Shipment data
- GL Transactions

Deletes and removes from the disk all records in the associated module(s) over a specified number of years old. It is important to set an **administrative lockout** before removing records.

pc/MRP will automatically create backup files of the databases in the PACK directory prior to any removal of records. pc/MRP does this in case any hardware problems occur during the removal process.

**Note:** Since Sales Orders and Work Orders are stored in the same database table, removing Work Orders over X years will also remove Sales Orders over X years, and vice versa. If you want to keep all data in one module and only want to delete old data in the other module, call Software Arts for assistance.

#### 15.14.6 Sending Reports to Excel.

pc/MRP offers to send most reports to Excel. However, often you would see a different set of fields than on the printed report. The printed reports need to be formatted to fit a Portrait or Landscape page. They might pull data from several tables. They might use calculated fields, subtotals, totals.

The Excel report will include all the fields of the table that is the primary table behind the printed report. No more, no less.

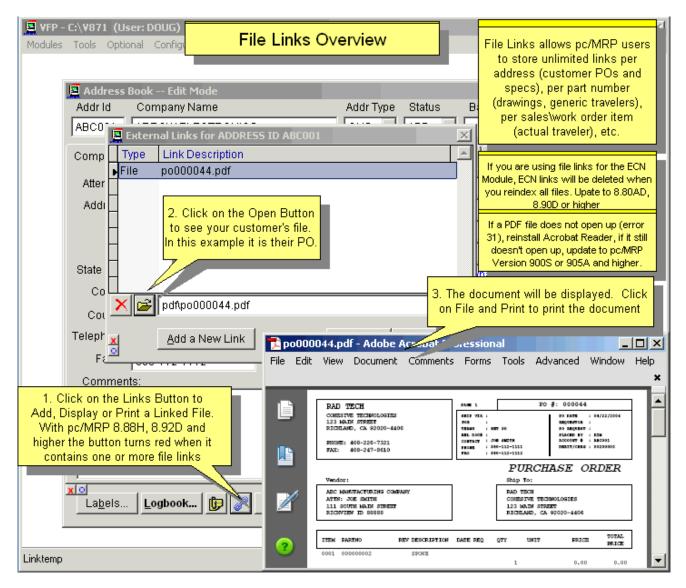
All these fields can be exported, as long as the computer that runs pc/MRP has Excel installed. (If pc/MRP is run on a terminal server, Excel has to be installed on the terminal server.) If Excel is not available on the computer, pc/MRP does not offer to select the memo type fields (like the general info in inventory, the reference designators in the BOM table, the tracking number and comments in the invoice table, etc.).

**Note:** Sending memo fields into Excel significantly slows down the process. Do not include memo type fields, unless you need them. The Excel output defaults to not include memo fields.

### 15.14.7 File Links

File Links allows pc/MRP users to store unlimited links per address (customer POs, specs), per part number (drawings, generic travelers), per sales/work order (actual traveler), etc. Please note that the files are linked to the entire document (sales order, invoice), not to a specific line item.

Click on the Links button to add, display or print a linked file. The button turns red when it contains any file links. Click on Add a New Link, then select the link type: file, folder or URL.



Browse for the file/folder. If linking a URL, copy&paste, drag&drop or manually type in the URL into the field.

The Link Description defaults to the path+filename, but you might want to change it to a more user friendly description of the item you linked.

Image: WFP - C:\V863 (User: DOUG)       File Links - Example 1         Modules Tools Optional Configuration       File Links - Example 1         Image:
Inventory (Edit Mode)         Part # 000000010       Type Assembly         Description       WHEEL ASSY         Qtys \ Costs       Vendors         Sales Prices       Details 1         Details 2       QuickBooks®
Costs:       Average       External Links for PART NUMBER 000000010         Standard       Type       Link Description         Last PO       File       TRAVELER FOR ASSY 00000010.PDF         On Order       On Demand       Enter the Link's Description. Here I have added the word         MRP Available       TRAVELER" to differentiate this link from other links I might add to this part number. For example you might have a link to this part's "DRAWING NUMBER"
Safety Stock: <ul> <li>Minimum Qty</li> <li>Add a New Link</li> <li>Minimum weeks of In</li> <li>Add a New Link</li> <li>Leave the name and the location of the file as is.</li> </ul> <ul> <li>Stock &amp; Issue Unit</li> <li>EA</li> <li>Date of</li> <li>Unit EA</li> <li>Unit EA</li> <li>Date of</li> <li>Unit EA</li> <li>Unit</li></ul>
Standard

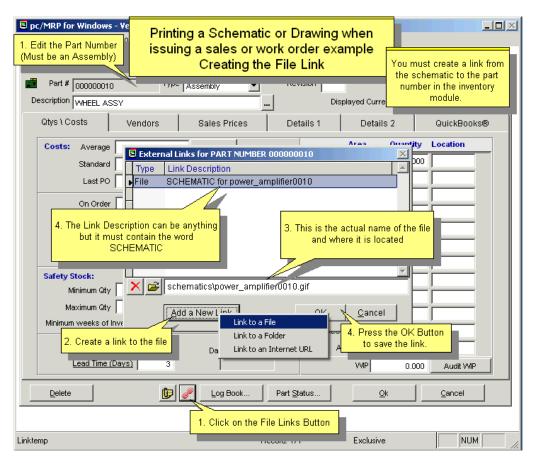
## 15.14.7.1 File Links - Advanced

The following sections are for programmers who want to utilize the Flinks table and VFP commands to get even more out of pc/MRP.

Linked documents can be automatically opened after displaying a custom pc/MRP report/form. Create a custom form that can simply be a copy of the standard form/report, with no changes. Use Notepad to create a text file with the name of the custom report and the extension .EF.

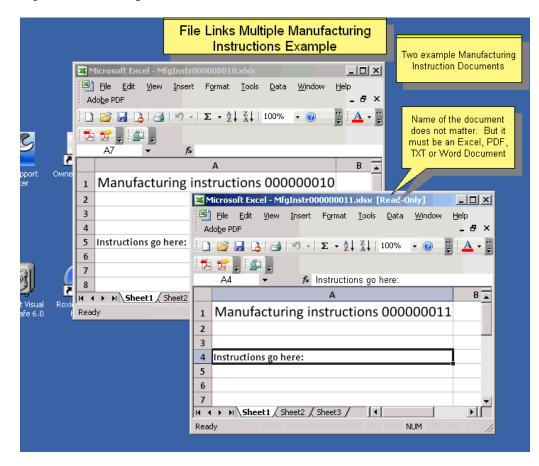
Below see examples for the use of file links in several different situations.

For details on each topic and to see the contents of the EF files, please see the pc/MRP online tutorial about File Links: <u>http://pcmrp.com/mrp101/flinksoverview.htm</u>



Printing a Customer's PO when printing an invoice.

File E	tomrpw910\invoiceb.ef - Notepa dit Search View Encoding Lang 	Printing a Customer's when printing an Invoi Creating the Invoiceb.e	ce 📲 📰	<b>Z</b>	_ 🗆 × ×
1	~0UT~				
2	SET PROCEDURE TO PROCFILE	E ADDITIVE			
3	LOCAL lcType as String, 3	lcLink as String, lcRet as Stri	ng		
4	lcType = ""				
5	lcLink = ""				
6					
7					
8					
9	*-> Get the matching link				
10	<pre>10 lcRet=FlinksFindByDescript("INVOICE",minvoiceno+mitemno,"CUST_P0_","CONTAINS",@lcType,@lcLink)</pre>				lcLink)
11 12 13	Sales does not				
14	IF EMPTY(lcRet)				
15	*-> lcAnswer = QuickForm	("Warning, Link not found",0,"W	arning","","",4	)	
16	RETURN .F.				
17	ENDIF		here we have com		
18		out	the not found warr	ning.	
19				_	
20					
21	*-> Display the file				
22	ShellExec(fullpath(lcLin)	x))			
23	23				
length	:430 lines:23 Ln	:20 Col:1 Sel:0	Dos\Windows	ANSI	INS //



Printing a SO/WO line item specific traveler

to link to specific travelers Line Item Specific Traveler travel	nust create a link from the er(s) to the specific sales d work order line items
SO/WO # 000005 Change # 0 Document Curre Order Date 02/16/2017 Sales Type Order Entry  BASE CURREN	
Customer       Billing / Shipping       Delivery       Item Info       1. Click         Root Address Lookup       Account # ALL001       Addr Type       Addr Type         Customer       ALLIED ELECTRONICS       Image: Click and the state of the	s Button Items/Notes
Street       Image: Constraint of the second s	Add Item  Add Item  Clone Breakdown Breakdown Breakdown Breakdown Breakdown
Phor 4. The Link Description can be anything but it must start with the letters TRAVELER plus the LINE ITEM NUMBER tem 00002 000000 Comparison traveler_000005_0001.xlsx	nis tory.
Quantity     Eq. Arrive       1.000     Add a New Link       Comments     QK       Quantity     QK       Quantity     QK       Quantity     QK       Quantity     QK       QL     QK	017 Create Add <u>r</u> ess
to save the link.	Einished

New function ProcFile.prg::FlinksOpen() FUNCTION FlinksOpen(lcModule, lcDocNo, lcLinkType, lcFileType, lcFindStr, lcSearchType) \*# Function..: FlinksOpen() Author: Ron \*# \*# Opens Files, Folders and/or URLs associated with a passed Module/DocNo Purpose...: \*# combination. The function can be limited to specific link types \*# or document File types. It can be further limited to links \*# which have specific text content within the description. \*# \*# Returns...: Numeric - The number of documents that were opened. \*# \*# - [Required] The document's module. Parameters: lcModule \*# "SALES ORDER, INVOICE, etc" \*# lcDocNo - [Required] The document number to be sought. \*# lcLinkType - [Optional] The type of links to be opened. \*# Allowable values are: File, URL, Folder, All \*# If not passed, ALL will be assumed. \*# - [Optional] The type of Files to be opened. lcFileType \*# Example values are: DOC, DOCX, TXT, PDF \*# Only one file type can be used at a time \*# If not passed, all file types will be assumed. - [Optional] The string to be found in the description. \*# lcFindStr \*# Only links that have this string will be opened. \*# lcSearchType- The type of string search to be performed. \*# Allowable values are: CONTAINS, START, EXACT \*# If not passed, CONTAINS will be assumed. \*# \*# Notes.....: The linked files MUST have an application installed and associated \*# with the file extension on the local computer for files to be opened. \*# \*# History...: 02/14/2017 - Initial Creation \*#\*

All tests were performed using this data set. The content of the LINK field is the same as the description without the MFG\_INSTR\_ if present.

	Module	Docno	Linktype	Descript	Link	
Γ	PART NUMBER	TOP TEST ASSY	File	account.prg	Memo	
	PART NUMBER	00000002	File	BMP\EnterStk.txt	Memo	
Γ	PART NUMBER	00000002	File	BMP\monitor.jpg	Memo	
•	PART NUMBER	00000002	File	MFG_INSTR_BMP\8223.bmp	Memo	
Γ	PART NUMBER	00000002	File	LevelBom.xls	Memo	
	PART NUMBER	00000002	Folder	BMP	Memo	
	PART NUMBER	00000002	File	BMP\partmast.htm	Memo	
	PART NUMBER	00000002	URL	MFG_INSTR_www.pcmrp.com	Memo	
	PART NUMBER	00000002	File	MFG_INSTR_BMP\arsisdst.txt	Memo	
	PART NUMBER	00000002	File	ron.xls	Memo	
Г	PART NUMBER	000000_10	File	MFG_INSTR_8223.bmp	Memo	

```
FLinksOpen("PART NUMBER", "00000002")
   Opens 7 files, one URL and one folder
              ARSLSDST.TXT, ENTERSTK.TXT, 8223.BMP, MONITOR.JPG, PARTMAST.HTM, RON.XLS,
   Files:
              LEVELBOM.XLS
       URL: www.pcmrp.com
       Folder: c:\v912\BMP\
FLinksOpen("PART NUMBER", "000000002", "File")
   Opens 7 files only
              ARSLSDST.TXT, ENTERSTK.TXT, 8223.BMP, MONITOR.JPG, PARTMAST.HTM, RON.XLS,
   Files:
               LEVELBOM.XLS
FLinksOpen("PART NUMBER", "000000002", "File", "XLS")
   Opens 2 files only
   Files: RON.XLS, LEVELBOM.XLS
FLinksOpen("PART NUMBER", "000000002", "Folder")
   Opens one folder only
      Folder: c:\v912\BMP\
pc/MRP V9.50
```

FLinksOpen("PART NUMBER", "00000002", "", "JPG") Opens one file, one URL and one folder (since there is no restriction to open just files) Files: MONITOR.JPG URL: www.pcmrp.com Folder: c:\v912\BMP\ FLinksOpen("PART NUMBER", "000000002", , , "MFG\_INSTR\_") Opens 2 files and one URL Files: ARSLSDST.TXT, 8223.BMP URL: www.pcmrp.com FLinksOpen("PART NUMBER", "000000002", "File", , "MFG\_INSTR\_") Opens 2 files only Files: ARSLSDST.TXT, 8223.BMP

# 15.15 User Connectivity & Administrative Lockout

## 15.15 User Connectivity & Administrative Lockout Overview

This is the area you first visit for doing any kind of exclusive administrative work such as backing up your pc/MRP system or running exclusive processes. You will need to set an Administrative Lockout before reindexing a database table, removing marked records, removing records over X years old, running audits, etc.

If the system is not locked down and scheduled tasks need to start (see Section 15.16), these tasks will produce an error, stop processing, and wait to re-start according to their schedules.

You can also get a list of the users currently accessing pc/MRP.

Setting or removing an Administrative Lockout requires Delete rights to the Configuration Module (if the Advanced Password Module has been activated).

## 15.15.1 Click the Set Administrative Lockout Button

Press the Show Users Button to display who besides yourself is presently using pc/MRP. Click the Set Administrative Lockout button to send a message to those users to log out of pc/MRP.

pc/MRP for Windows - Version 8.725 (User: Modules Tools Optic         1. Press the Show Users         Button to view online         pc/MRP Users         Current Application         2 Users are currently         pc/MRP application.	Auto Updating pc/MRP	
Show Users Set Administrative Lockout Help 3. Press "Set Administrative Lockout Button to send a	MRP Users	RP will display all ter than yourself. Click OK.
message to all users to get out of pc/MRP. ► KK	Richard R	Computer Name
pc/MRP uses the Sulf table and not a server function to display user names.		

## 15.15.2 Wait for users to log off of pc/MRP

The admin lock will prevent users from starting a new session in pc/MRP. Users already in will get the message below asking them to finish their work and log off pc/MRP. They can select "Let me finish.", but if they do not respond, they will be logged out from the program after a wait period of 5 minutes. Any unsaved changes will be lost.

Administrat	ive Lockout Notice
1	The pc/MRP application is about to undergo system maintenance. Please finish any tasks currently in progress and exit the application. If you select the "Shutdown Now" button below, You will immediately exit the application and any unsaved changes will be lost. If you fail to voluntarily exit the application within 5 minutes, the application will automatically terminate and any unsaved changes will be lost.
	Shutdown Now

While you are waiting for users to log off (or be logged off) you will see the screen on the left below. You can still click on Show Users and maybe call them or walk over to their computers. Once all users of pc/MRP except you have logged off, the screen on the right appears. Click OK. You can now proceed with your administrative tasks.



## 15.15.3 Remove the Admin Lockout

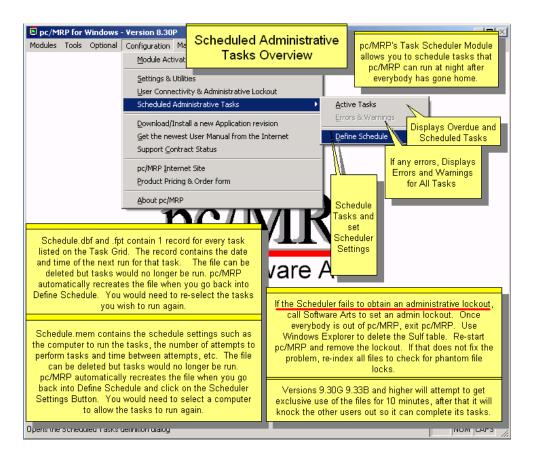
Once you are finished with your administrative tasks, you should return to this module and press the Remove Administrative Lockout Button. If the person setting the lockout logs out of pc/MRP, they must log back into pc/MRP at the same computer, in order to remove the lockout. If they cannot log back into pc/MRP, contact your system administrator to remove the file **MRPBUSY.FLG** from the pcmrpw directory.

## 15.15.4 Troubleshooting a "Ghost user"

In rare cases pc/MRP cannot log off users after 5+ minutes passed. Look up the user's login name and especially the computer name. Confirm and double check that pc/MRP is not running on that computer. Make sure you exit pc/MRP, so that there are no "real users". Open the pcmrpw folder in Windows Explorer and delete the SULF.DBF file. If you cannot delete it, ask your IT person to remove phantom file locks (i.e. close any open files) in the PCMRPW folder on the server. <u>http://www.pcmrp.com/it101/2003closeopenfilestart.htm</u> and <u>http://www.pcmrp.com/it101/rdsmanagermenu.htm</u> If that doesn't work, reboot the server.

# 15.16 Scheduled Tasks

## **15.16 Scheduled Tasks Overview**



There are numerous tasks you can set to run automatically, during the night when users are gone:

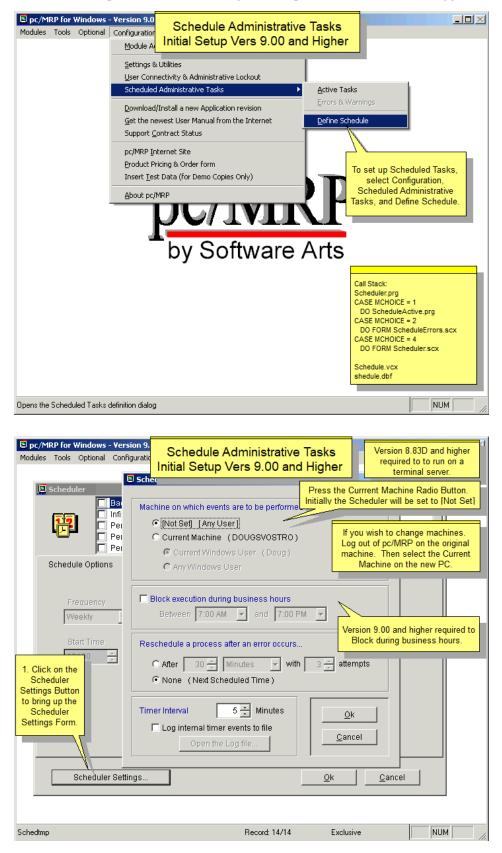
- Export Invoices to QuickBooks
- Export Receivers to QuickBooks
- Infinite Bucket MRP Generation
- Perform a Rollup of Average costs on assemblies
- Perform a Rollup of Last PO costs on assemblies
- Perform a Rollup of Standard costs on assemblies
- Regenerate index tags for all application tables
- Remove records marked for deletion from all application tables
- Rollup the Mean Time Between Failure (MTBF) on assemblies
- Update Alternate Part Numbers on BOMs
- Update Customer account balances in the Address Book
- Update the On-Demand quantities in inventory
- Update the On-Order quantities in inventory

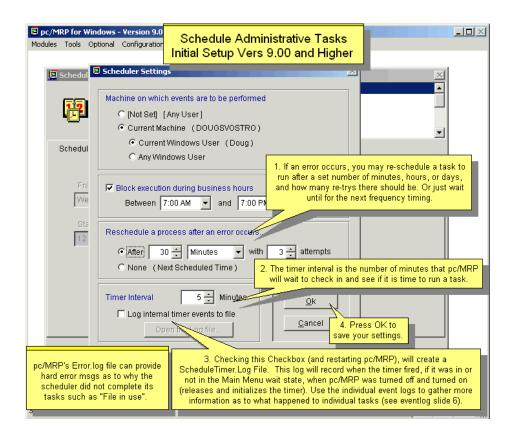
You must leave the computer that is scheduled to run these tasks, logged into pc/MRP, with no modules open ("neutral screen") so that the tasks can be executed.

With the **Password module** implemented, the user must have 'Delete' privileges to the Configuration menu to define schedules. We suggest companies create a user named e.g. 'Scheduler', with <u>no rights</u> to any modules (for data safety reasons). Now log into pc/MRP as the user 'Scheduler' on the computer set to run the tasks and leave the computer logged in and turned on during the night. Scheduled tasks always run with Admin authority, and then the computer goes back to its original rights.

## 15.16.1 Set PC, Schedule Tasks and Interval Settings

To Set the Schedule PC, Tasks and Interval Settings follow the slides below: If you want to change the scheduler computer and user to a new computer and user, the original computer and user must be logged out of pc/MRP.





#### 15.16.2 Select and Schedule a Task

First select the process to schedule. Then select the Schedule Options tab and set up the Frequency (Once, Daily, Weekly, or Monthly), the Start Time (time is in 24-hour notation, therefore 9:00PM is 21:00), and the Start Date.

pc/MRP for Windows - Version 8.90/ Modules Tools Optional Configuration	Schedule	1. Select the process
3. Set the tab. Frequency (Once, Daily,	up selected files It Invoices to Quickbooks It Receivers to Quickbooks Ie Bucket MRP Generation Irm a Rollup of Average costs on assembli Execution Options Event Log	to schedule.
Frequency Daily Start Time 11:00	On these Days. <mark>you wish</mark> to oc I Monday I Tuesday I Wednesday I Thursday	t the days this action ccur on. Saturday Saturday Sunday
5. Set the Start Time (time is in 24-hour notation, therefore 21:00 is 9:00PM) Scheduler Setti	applicati marked that cor wi	elect "Remove marked records from all on tables", pc/MRP will remove records for deletion and then re-index the tables ntained records marked for deletion. It ill not backup to the Pack Folder
Schedtmp	Record: 14/14	Exclusive

## **15.16.3 Select Execution Options**

A task execution options will vary by task. Please note each task's options carefully. As an example:

	If the schedule PC's copy of pc/MRP was left off during the night, it will attempt to perform the tasks when the computer starts pc/MRP forming this task. (Recommended) tock the file, perform the task, release d wait for the next scheduled task.
Schedtmp Rev	cord: 14/14 Exclusive

Conversely, the 'Update the On-Order quantities in inventory', has no configuration options.

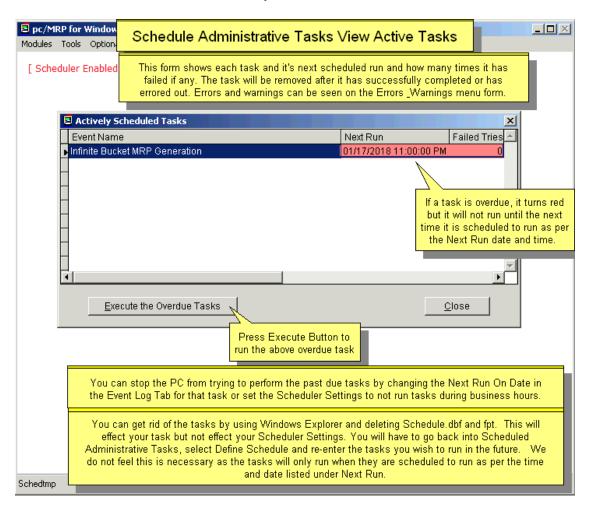
## 15.16.4 Scheduled Task's Event Log

Note the [Scheduler Enabled] label at the top left corner of the screen.

Users can use the event log to see if and when tasks were performed. Each task has its own log.

E pc/MRP for Windows - Version 8.3 Modules Tools Optional Configuration	Schedule Administrative Event Log Tab	Tasks	
Update Alterna	n Time Between Failure (MTBF) on as te Part Numbers on BOMs ner account balances in the Address or Dermand quantities in inventory	'Update the On- in	selected to run was the -Demand quantities in wentory'.
Last Run on: 10/30/2008 02:56	02:56:48 PM, Completion at: 10/30/20	V2256:48 PM the Next Run on is me, it would be be as scheduled to ru Please No PC was off turn it on in that it has were not p to run the startup. Y trying to pe by changin as sho	ecause this task
Schedtmp	Record: 8/14	Exclusive	ng business hours.

### 15.16.5 Active Tasks



Select Active Tasks on the Menu to see currently scheduled tasks.

## 15.16.6 Errors & Warnings

The log shows information about currently scheduled tasks that did not complete for some reason.

If you get an error message, "Another back-up was in progress" and there is no back-up in progress, delete a file named "**BACKUPINPROGRESS.FLG**" in the pcmrpw directory and re-run the back-up.

Check the "Log internal timer events to file" checkbox to record an internal event log into the **SCHEDULETIMER.LOG** file.

The ScheduleTimer.log is basically a process trouble shooting file with entries such as:

- Administrative Lockout has been set by another user
- Begin loading next event
- Administrative lockout successful
- Setting Administrative rights
- Removing Administrative rights
- Removing Administrative lockout
- Finished loading nest event

In addition, pc/MRP's ERROR.LOG file can provide clues as to why the scheduler did not complete its tasks.

If you find that a task is overdue but has 0 failed tries, this can happen if the scheduler computer was turned off for the night, or pc/MRP was not running, or it was running but not left at the neutral screen.

If the scheduler label does not appear in the upper left corner of the pc/MRP screen on the scheduler PC, or the scheduler refuses to run, set an admin lockout, exit pc/MRP and use Windows Explorer to delete the **SULF.DBF** file in the PCMRPW folder.

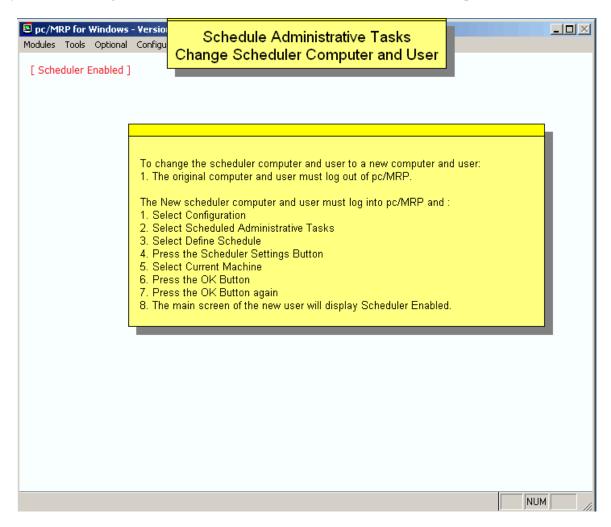
## 15.16.7 Turning off the Scheduler

If you wish to remove the Scheduler Enabled text from appearing in the upper left of the PC selected as the scheduler PC, uncheck all tasks and delete the **SCHEDULE.MEM** file in the pc/MRP directory.

pc/MRP for Windows - Version Modules Tools Optional Configura [ Scheduler Enabled ]	Schedule Administrative Lasks	
	u can simply uncheck all of the Tasks. However the Scheduler Enabled Words ill still appear. It will not run any scheduled tasks until you decide to recheck one or more scheduled tasks. This is the method we recommend.	
w	to turn off the Scheduler completely, use Windows Explorer, delete or rename schedule.mem, exit out of pc/MRP and restart pc/MRP, the Scheduler Words build no longer appear in the pc/MRP's main window. Were you to go back into the scheduler, the scheduled tasks would be displayed but no PC would be asigned to run the tasks so no tasks would run. To get the tasks to run again, you would have to assign a PC and recreate your Scheduler Settings. Note Schedule.mem contains the schedule settings such as machine, reschedule times, etc.	
	by Software Arts	
	NUM	

## 15.16.8 Changing the Scheduler PC

If you wish to change the PC the scheduler is scheduled to run on follow the steps below:



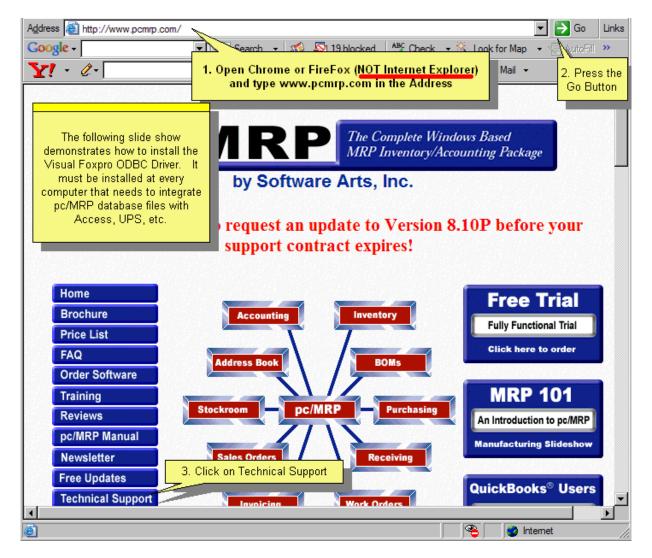
# 15.17 Creating a pc/MRP VFP ODBC DSN

## 15.17 Overview

A slideshow is available at: http://www.pcmrp.com/mrp101/odbcopeninternetexplorer.htm

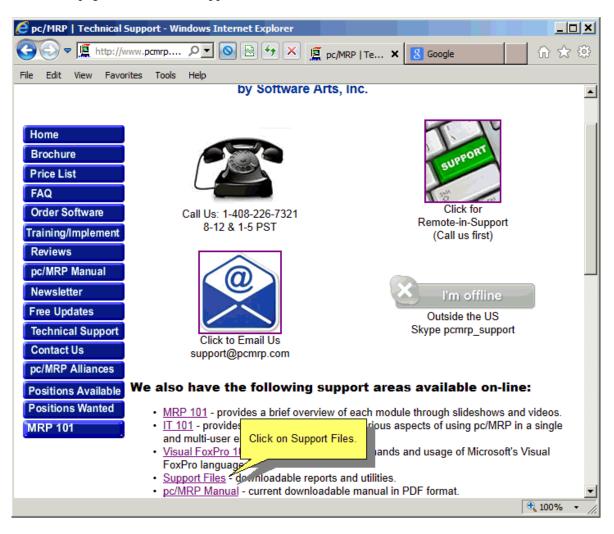
pc/MRP product is written with Microsoft's Visual FoxPro. For better security and data reliability, pc/MRP uses the native Visual FoxPro database structure instead of a dBase-III structure. This requires the use of the Microsoft ODBC drivers for Visual FoxPro tables if you use a program such as Excel, Access, Crystal Reports, etc. to read the pc/MRP data.

## 15.17.1 Step 1 Access the pc/MRP web site.



## 15.17.2 Step 2 Navigate to the Technical Support page.

Scroll down the page and select the Support Files link.



## 15.17.3 Step 3 Find the file download page.

Scroll down to and click on the <u>Visual FoxPro ODBC Driver</u> link. There is another link in the same paragraph with instructions like these in a MS Word document; it also contains the ODBC link.

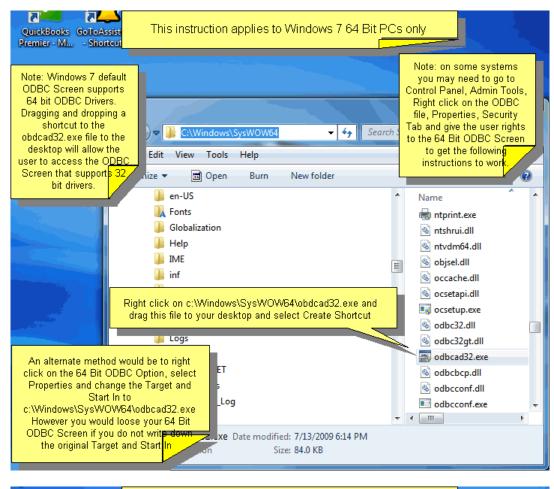
This downloads the English version of the VFPODBC.MSI driver.

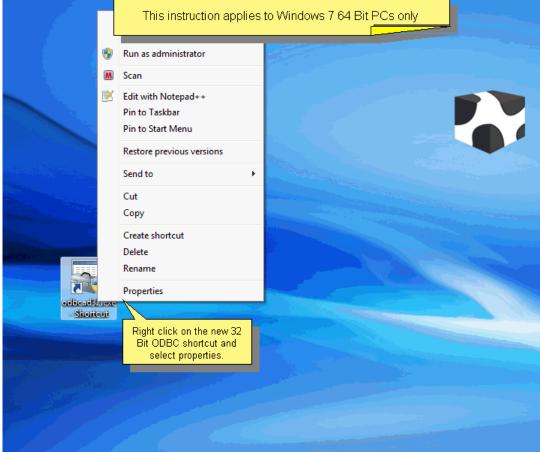
Your computer may have already installed the Visual FoxPro ODBC drivers as a part of the operating system. You can verify this by going to Step 5 (Section 15.17.5).

## 15.17.4 Step 4 Download the file and run it.

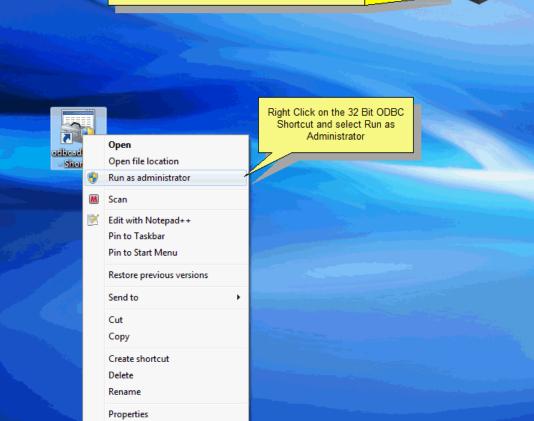
Double-clicking in the VFPODBC.msi file will automatically start the install process.

Note: The next 2 pages apply to Windows 7 64 bit computers only.





General Security T General Security T General Deta	e ab rorcut Compatibility	ndows 7 64 Bit PCs only	
odbcat - Shc		Make sure the user has rights to the	
To change permissions, click Permissions for doug Full control Modify Read & execute Read	Edit. Edit Allow Deny	ODBC Sceen. If the user does not ha rights, Press the Advanced Button, an Change Permissions to give the user rights to use the 32 Bit ODBC Module	nd r
Write Special permissions For special permissions or adv click Advanced. Learn about access control a	Auvanceu	Itton once you have confirmed the user's	rights
This	Cancel Apply		
	Instruction applies to wit		

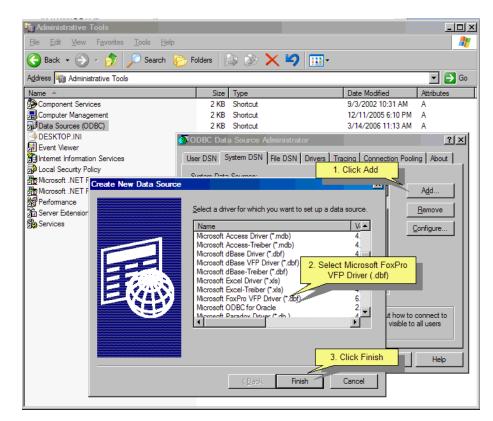


## 15.17.5 Step 5 After the install is complete, start the Data Sources (ODBC) menu.

Select Control Panel, Administrative Tools, Data Sources. Select **System DSN** as that allows any logon user of this computer to use this pc/MRP Data Source to access pc/MRP.

n Administrative Tools	
<u>File Edit View Favorites Tools H</u> elp	🥂
Back      Search     Address     Address     Addrinistrative Tools     Address	Endlers     Folders     F
Details Sources (ODBC)     DESKTOP.INI     Event Viewer     Internet Information Services     Local Security Policy     Microsoft .NET Framework 1.1 Configuration     Microsoft .NET Framework 1.1 Wizards     Performance     Server Extensions Administrator     Services	2 NB       Shortcu       2. Select System DSN       Db 11:13 AM       A         VODBC Data Source       2. Select System DSN       Image: Connection Pooling About         User DSN       System DSN       File DSN       Drivers       Tracing       Connection Pooling       About         User Data Sources:       Name       Driver       Add       Add         Reserver       Microsoft dBase Driver (*.dbf)       Add       Remove         MS Access Database       Microsoft Access Driver (*.mbb)       SQL Server         Visio Database Samples       Microsoft Access Driver (*.MDB)       Configure
	An ODBC User data source stores information about how to connect to the indicated data provider. A User data source is only visible to you, and can only be used on the current machine.

15.17.6 Step 6 Clicking Add presents the following screen to select an ODBC driver to configure.



There may be more FoxPro drivers listed. Be sure to select the **Microsoft FoxPro VFP Driver** (\*.dbf).

15.17.7 Step 7 After selecting the VFP driver and clicking 'Finish' you need to connect to pc/MRP.

	pols Favorites <u>T</u> ools <u>H</u> elp • 🏠 🔎 Search 🙀		ting a pc. Data S			
Address 🦏 Administr	ative Tools					💌 🄁 Go
Name 🔺		Size	Туре		Date Modified	Attributes
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Computer Manager		2 KB	Shortcut		12/11/2005 6:10 PM	A
Data Sources (ODI	BC)	2 KB	Shortcut		3/14/2006 11:13 AM	A
DESKTOP.INI		🚰 ODBC Data	a Source Ad	ministrator		? ×
Event Viewer				· · · · · · · · · · · · · · · · · · ·	ta a a	1
Internet Information		User DSN S			ion Pooli	ng About
Local Security Police		System Data	Courses	Enter Data Source		
	mework 1.1 Configuration			IPS 2017 create a		
Microsoft .NET Fra	mework 1.1 Wizards	Name		ODBC named pc/N		A <u>d</u> d
Server Extensions	ODBC Visual FoxPro S	etup			X	Remove
Services	_					
Not vices	Data Source <u>N</u> ame: p	cMRPVFP	1	Enter Description	ОК <u>(</u>	Configure
					Cancel	
	Description: p	cMRP VFP Data	base Files		5. F	Press OK
	Distant			3. Check	Free Tables	
	Database type			7		
	O Visual FoxPro data	abase (.DBC)	• Free Ta	able directory		
	<u>P</u> ath:				u to	connect to
	c:\pcmrpw			Browse		all users
If the folder is					ate your pomrp dire	ctory (on the
may have to path and fol					for multi-user installa	
pain and for	uer name				h the pc/MRP folder,	
					w will display pc/MR	
				that t	he ODBC will extrac	t data from.

The Data Source Name must be 'pcMRPVFP' if you are connecting pc/MRP to UPS shipping.

The Description field is your choice.

You <u>must</u> choose Free Table directory as the Database type.

Browse to your pc/MRP directory to select the Path to the pc/MRP files. Single-user versions of pc/MRP are usually located at 'C:\pcmrpw' whereas a multi-user version is on a server and you need to browse to that directory for pc/MRP.

In some cases you won't be able to use your mouse to select the pcmrpw folder. Click on the drive, then use your keyboard arrow keys to navigate to the pcmrpw folder. Your database files will be listed on the left side of the screen when you have the right folder.

Some customers have a Peer-to-Peer network and the pc/MRP directory may be on that workstation. You would just browse to that workstation instead of a server.

Now press 'OK' twice to end the ODBC setup for pc/MRP.

## 15.18 pc/MRP Integration with UPS WorldShip

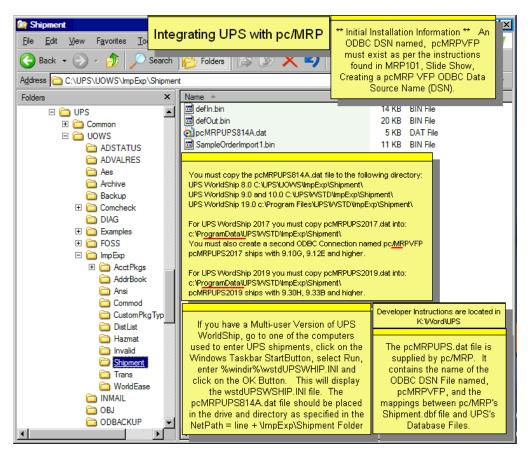
## 15.18 Overview

**Note:** For UPS WordShip 2017 you must copy pcMRPUPS2017.dat into: c:\ProgramData\UPS\WSTD\ImpExp\Shipment\

A slideshow of the UPS Import/Export Wizard is available at: http://www.pcmrp.com/mrp101/ups2integrateconfigurationsettings.htm

The UPS Import/Export Wizard is available for pc/MRP versions **8.73** and higher. These versions have a ShipLog table and code to extract data from this file.

For older versions see the slideshow and the following explanation: <u>http://www.pcmrp.com/mrp101/upspcmrpupsmappingfile.htm</u>



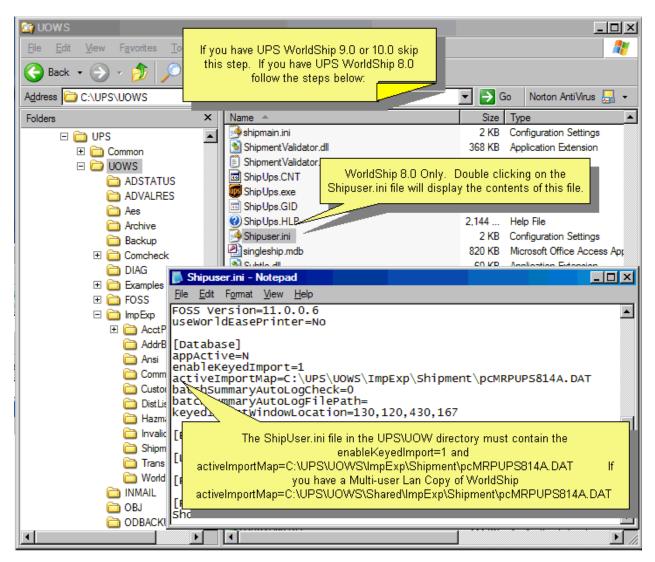
**Note:** You must have already created your ODBC connection to pc/MRP (see Section 15.17). UPS WorldShip version 8.0 or above must be installed on your computer or accessible via the LAN.

**UPS WorldShip version 8.0**: The pcMRPUPS814A.dat file must be copied to the \UPS\UOWS\ImpExp\Shipment directory of your UPS software.

**UPS WorldShip version 9.0**: The pcMRPUPS814A.dat file must be copied to the \UPS\WSTD\ImpExp\Shipment directory of your UPS software.

**Note:** The number '814A' on the dat file supplied by Software Arts, Inc. refers to the minimum version of pc/MRP supported by the UPS interface.

## 15.18.1 Step 1 Modify the Shipuser.ini file of UPS.



Windows '.ini' files are normally associated with Windows Notepad. The configuration for this is located in Windows Explorer, Tools, Folder Options. Scroll down to the '.ini' extension and you should see Notepad in the "Opens with:" area. If not, and it is not a different text reader, change to a text reader like Microsoft Notepad.

Now note the two changes that must be present to interface with pc/MRP.

The 'enabledKeyedImport=1' and the 'activeImportMap='. (\UPS\UOWS\ImpExp\Shipment -directory of your UPS software) (or WSTD)

Save this file and continue to Step 2.

## 15.18.2 Step 2 Set up the pc/MRP Interface to UPS WorldShip.

Select Configuration, Settings & Utilities menu. You must have modify rights to the Configuration menu in a multi-user environment with the Optional Password module. See your pc/MRP administrator if you need and do not have the rights to the Configuration menu.

E FOX -	C:\V814 (User: DOUG)	
Modules	Tools Optional Configuration Manual Developer Help	
🗅 💕		
🧧 рс/М	RP Settings & Utilities	
Option	Description	Setting
73	Support Contract Expiration Warning in Days	30
74	Prevent document/part number from being edited	
75	Repair Duplicate document numbers	[Utility]
76	Automatically pre-seed the Physical Inventory counts	Yes
77	Purge unneeded Revision Update folders from disk.	[Utility]
78	Select the source for the division field on Purchase &	
79		No Labor Rate: Derived from Average Rate (Ontion 6)
80		Prefers Mircosoft Word 2. Select Manual (if you want to
81	Salesman & Commission source setting 🛄 Shipmer	
82	Mark SO/WOs with an ISSUE SUBS ONL	later) or Automatic Generation (if
83	Add, Edit, or Delete the Terms & Conditio	These Settings affect the Decords after entering each
84	Dedicated work orders can be issued for	Records after entering each invoice).
85	Set ISO 9000 Vendor Performance Days	
86	ehinm	nodule can be configuredaucany generate a nent document wheneve voice is created.
88	T. Select Option 89	
89	Shipment module settings	Allows you to specify Dilling
H 03	Shipment module settings	<u>Manual Generation</u> <u>Option and Package Type.</u>
H		
H		Open the shipment for editing after generation.
H		3. Enter your UPS #
H	UPS	Account Number: WX0164
		4. Press OK
Chan	ge Option 89 Revert Option 89	<u>Ok</u> <u>Cancel</u>
Configtmp	F	Record: 89/89 Exclusive NUM

Type 89 to select **Option 89**, Shipment module settings.

**Manual Generation** allows you to create an Invoice record without a shipment record. You will have to create the Shipment record manually.

Automatic Generation will create a Shipment record immediately after the Invoice record.

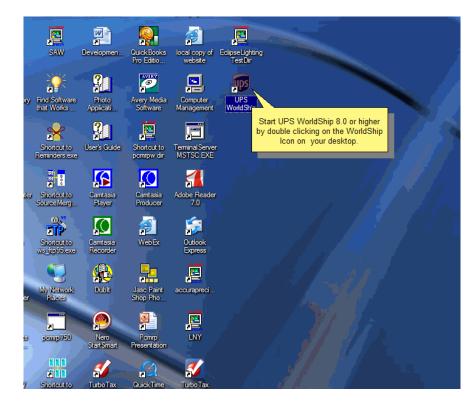
**Note:** No Shipment record will be created if there are no line items marked as Shippable. A shippable line item will have a check in the **Shippable item** checkbox on the line item's Delivery tab of the Invoice. The Shippable item's checkbox is automatically carried forward from the Inventory item's Miscellaneous tab's Shippable item checkbox, to the Sales Order, and then to the Invoice.

You can also open or not open the Shipment record for editing automatically.

Enter your company's UPS number in the space provided.

Pressing OK saves the settings.

## 15.18.4 Step 4 Navigate to your UPS WorldShip program



Double-click on the UPS WorldShip icon, or navigate to the UPS WorldShip program via the Start menu of your desktop and run the UPS WorldShip program.

15.18.5 Step 5 Set up the UPS WorldShip System Preferences.

WorldShip	Tools	OnLine Connect	Window	Hala	
File Edit Activities	Address Book Editor	Shift+F9			Endor Day Help Exit
Ship To Ship From Customer ID: Company or Name: Attention: Street: Boom/Floor/Addreet	Charge Back Code Editor Commodity Editor Profile Editor Profile Editor Required Field Set Editor Spipper Editor Tab Order Editor Tas Schedule Editor	F8 itor	tions Deta e: r r Delivery Time: n: ird Party	ail Refer	Package Package Type: Package
Country: United States City: Telephone: ( ) - [ ] UPS Account Numi	State/Prov: 2.	Package:		ent: O	(Printed on Label) Shipment Cost \$0.00
Shipper:	Profile:	Pkg: H	I Pkgs	Delete	is NEW Process Pkg Process Pkg Process Proces

Select Tools and System Preferences and follow the setup instructions starting in Step 7.

## 15.18.6 Step 6 The UPS WorldShip System Preferences screen.

WorldShip     See Tools LIPS Web Access LIPS On line Connect Window Heb	
File       Edit Activities       Tools       UPS Web Access       UPS OnLine Connect       Window       Help         System Preferences       Editor       1. Select the Misc         Ship       Hardware       Printing Setup       Shipment Detail Report Setup       Miscellaneous         Address Options       Display Help       Show Help Topic at Statup         Secondard       2. Make sure the "Always Update       Bates         Compar       2. Make sure the "Always Update       Ished & Reference Rates         Address Book"       Checkbox is unchecked.       First Entry Field         © Company or Name       © Onypany or Name       © Onypary of Shipments Retained before Archive:         Get Latest ZIP+4® Updates       Pickup Date Selection       Manually Select Pickup Dates (Future Date Processing)         © Do Not Ugdate       Onypact Database at Startup       Compact Database at Startup	
For Help, press Shift + F1 Ver: Pending:	0 Shpmt(s), 0 Pkg(s), Cc //

Select the **Miscellaneous** tab and ensure the **Address Options** for **Always Update Address Book** is not checked. Click the OK button.

15.18.7 Step 7 Set the required fields in UPS WorldShip.

UPS WorldShip® 1. Se	elect Tools		
File Edit Activities Tools	On Line Conr	nect <u>W</u> indow <u>H</u> elp	
Shipping Pickup ci Address Book	Editor	r Undo Void	Enclor <b>? EXIT</b> Day Help Exit
Ship To Ship Fror ANSI Referen	To Address F8 nce Qualifier Editor	tions Detail Refe	rence ]
	Code Editor	lions Detail Mere	lence
Commodity Educed			Package
Company or Name: Package Typ	e Editor	<b>e</b> :	Package Type:
Profile Editor.		· •	Package 🔻
Attention: Reference Ra			
Required Fiel		/ Delivery	Declared Value: \$
Shipper Edito		quired Fields Editor	Defense and Number 1
Tab Order Ed			Reference Number <u>1</u> :
Room/Floor/Addres			(Printed on Label)
Communication System Prefer		ird Party	Reference Number 2:
Country:System Prefer	ences		Reference Number 2.
United States 💌 -			
City: State/Pro	v:		(Printed on Label)
		t (pounds)	Shipment Cost
Telephone: E-mail Add	dress: Packag		
		0.0	\$0.00
UPS Account Number: Tax ID Nu		stronic Scale Activated	<b>40.00</b>
Shipper: Profile:			
	itandard 🔻 Pkg:		is NEW Process Shipment
	Add	1 Pkgs <u>D</u> eleti	e Pkg
,		Ver: 8	.0.14 XOFY Pending: 0 Shpmt(s),

Select the **Tools**, **Requiree Field Set Editor** as you will be verifying the fields in the next screen.

## 15.18.9 Step 9 Required Field Set Editor.

UPS WorldShip requires the 'Ship To Customer ID' field NOT listed in the '**Optional Fields Now Required**' list box on the right side of the screen.

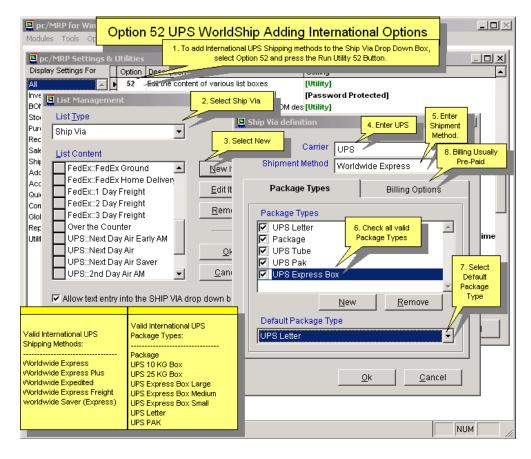
SUPS WorldShip⊗ Ie Edit Activities Tools UPS Web Access UP	S OnLine Connect Window Help
Hipping Pickup Create UPS.com Tracking Active Hipping Log Create UPS.com Tracking Book	
Ship To Ship From Distribution Customer ID: Update Address Book	Service Options Detail Ret
Company or <u>N</u> ame:	UPS Service: Package Type: Next Day Air Package
Attention: Street:	Saturday Delivery     Guaranteed Time:     Billing Option:     Reference Number <u>1</u> :
Room/Floor/Address 2: Department/Address 3:	Prepaid (Printed on Laber 1) Bill to Third Party (Printed on Laber 2)
Country:         Postal/ZIP Code ®:           United States            Qity:         State/Prov:	(Printed on Labe
▼           Telephone:         E-mail Address:           ( )         -	Weight (pounds)         Shipment Cost           Package:         Shipment:           0.0         \$0.00
UPS Account Number: Tax ID Number:	Electronic Scale Activated
Shipper: Profile: WX0164 VPS Standard V	Pkg:         H         I         > J         is NEW         Process           Add         Pkgs         Delete Pkg         Flo         Flo
r Help, præss Shift ± F1	Ver: 8.0.14 XOFY Peoding: 0.Shop

Click the 'Save' button to save the changes and exit the Editor screen.

15.18.10 Step 10 UPS Set Up is Finished, Click 'Exit'.

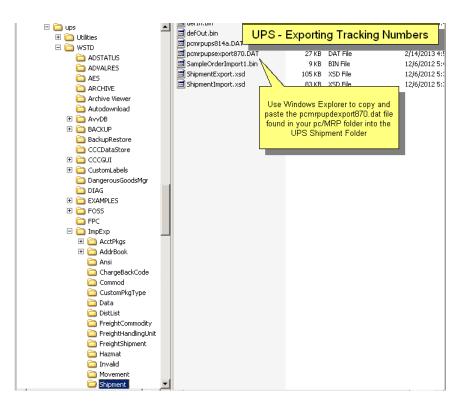
UPS WorldShip®		
<u>File Edit</u> Acti <u>v</u> ities <u>T</u> ools UPS Web Access UPS	OnLine Connect <u>W</u> indow <u>H</u> elp	
Shipping Pickup Create UPS.com Tracking Book	Send to Repeat Undo Void	End of Help Exit
Ship To Ship From Distribution	Service Options Detail Ref.	Click on Exit.
Customer ID:  Update Address Book Residential Address	Shipment	Package
Company or <u>N</u> ame:	UPS Service:	Package Type: Package
Attention:	Saturday Delivery	
Street:	Guaranteed Time:	Declared Value: \$
	Billing Option:	Reference Number <u>1</u> :
Room/Floor/Address 2: Department/Address 3:	Prepaid  Bill to Third Party	(Printed on Label)
Countr <u>y</u> : Postal/ <u>Z</u> IP Code ®:		Reference Number 2:
United States  City: State/Prov:		(Printed on Label)
	- Weight (pounds)	Shipment Cost
Telephone: E-mail Address:	Package: Shipment:	¢0.00
UPS Account Number: Tax ID Number:	Electronic Scale Activated	\$0.00
Shipper: Profile: WX0164 V UPS Standard V	Pkg: H I D H	is NEW Process
	Add 1 Pkgs Delet	ie Pkg
Facility areas (14) and 1	<b>N C</b>	
For Help, press Shift + F1	Ver: 8	8.0.14 XOFY Pending: 0 Shpmt(s),

## 15.18.11 To add international UPS shipping methods to the 'Ship Via' Drop Down Box.



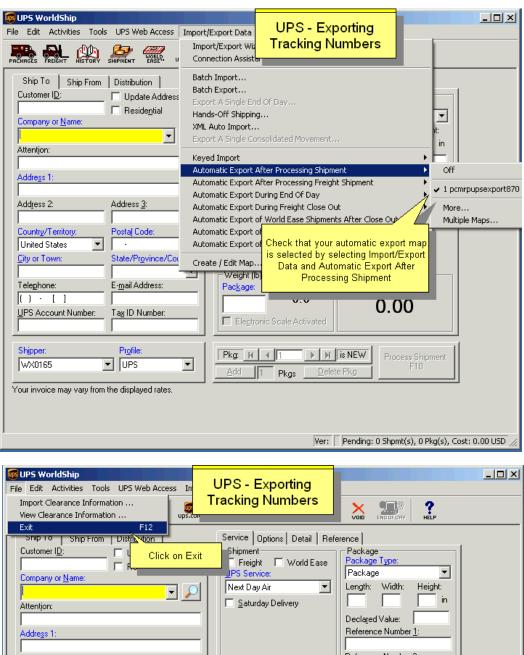
## 15.18.12 To set up pc/MRP to import UPS tracking numbers follow the instructions below

	PS - Exporting Tracking	-0×
stomer ID: Update Address Book Residential mpany or Name:	Service       Options       Detail       Reference         Shipment       Package       Package         Freight       World Ease       Package         UPS Service:       Package       Package         Next Day Air       Package       Package         Need it there sooner?       Package       Image: Package         Saturday Delivery       Peclaged Value:       Image: Package         Saturday Delivery       Reference Number 1:       Image: Package         Pc/MRP Versions 8.91 Rev C and higher contains code such that pc/MRP can be set up to import UPS tracking numbers. The setup consists of copying and pasting the pcmrpupsexportB70.dat file found in your pc/MRP folder into the UPS Shipment Folder. Then setting up UPS to use thisdat file to automatically export UPS's Shipment Information.Lead Tracking Number Field to pc/MRP's ShipLog.TrackingNo Field when the user presses the Process Shipment Button. When a user displays or prints an invoice in pc/MRP, pc/MRP will automatically copy the tracking number to the invoice and shipment records from shiplog.dbf and then mark the shiplog record for deletion.	
ipper: Profile ∞n165 ▼ IUPS ▼	Versions 9.30C and lower copy the Tracking Number from shiplog.dbf to Invoice.dbf to line item 0001. If Invoice Line Item 0001 does not exist it does not copy tracking number. Update to version 9.30D and higher.	• • •



Edit         Activities         Tools         UPS Web Access           File         Edit         Activities         Tools         UPS Web Access           Fractioners         Fractioners         Fractioners         Enstructure         UPS	Import/Export Data Import/Export Wiz Connection Assistant	
Ship To Ship From Distribution Customer ID: Update Address Residential Company or Name:	Batch Import Batch Export Export: A Single End Of Day Hands-Off Shipping XML Auto Import Export: A Single Consolidated Movement	▼ it.
Attention:	Keyed Import	<b> </b>
Address 1: Address 2: Address 3: Country/Territory: Postal Code: United States S City or Town: State/Prgvince/Code: Telephone: E-mail Address: [() [] UPS Account Number: Tay ID Number:	Automatic Export After Processing Shipment Automatic Export After Processing Freight Shipment Automatic Export During End Of Day Automatic Export During Freight Close Out Automatic Export of World Ease Shipments After Close Out Automatic Export of Mail Innovations Shipments After Close Automatic Export of Mail Innovations Shipments After Close Create / Edit Map Package: Shipment: 0.0 Elegtronic Scale Activated	Select Import/Export, Automatic Export After Processing Shipment and More.
Shipper: Profile: WX0165 V UPS	Pkg:         H         T         H         Is NEW         Proc           Add         1         Pkgs         Delete Pkg         Proc	ess Shipment F10
Your invoice may vary from the displayed rates.	Note: When the user presses the Process Shipm UPS will Automatically export UPS's Shipn Information.Lead Tracking Number Field to pc/ ShipLog.TrackingNo Field.	iment MRP's
Select from a list of all existing maps.		D Pkg(s), Co: //

File Edit Activities Tools UPS Web Access In UPS - Exporting	_ <b>_ _ _ _ _ _ _ _ _ _</b>
Ship To Ship	?×
Customer ID: Map Name 🛆 Map Type Map ODBC D	
Company or Name:	
Default Export }	te di la constante di la consta
Attention: 1. Highlight the export map	in
Address 1:	
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Add <u>t</u> ess 2:	
Country/Territory	
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City or Town:	
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UPS Account Numt	
Shipper:	ent
WX0165 Export Create / Edit Map Canc	
Your invoice may var	
For Help, press Shift + F1 Ver: 12	2.0.12 XOFY Pending: 0 Shpmt(s), 0 Pkg(s), Cc //



File Edit Activities Tools UPS Web Access In	UPS - Exporting	
View Clearance Information ups.com	Tracking Numbers	
Exit F12 Ship 10 Ship From Distriction Customer ID: Click on Exit Company or Name: Attention: Address 1: Address 2: Address 3:	Service Options Detail Refe Shipment Vorld Ease JPS Service: Next Day Air	erence Package Package Type: Package ▼ Length: Width: Height: Declared Value: Reference Number <u>1</u> : Reference Number <u>2</u> :
Country/Territory:     Postal Code:       United States     -       City or Town:     State/Prgvince/County:       Telephone:     E-mail Address:       [ )     -       UPS Account Number:     Tax ID Number:	Bill Transportation To: Shipper  With Return Services Weight (lb) Package: Shipment: O.0 Elegtronic Scale Activated	Shipment Cost (USD)
Shipper: Profile: WX0165 UPS V Your invoice may vary from the displayed rates.	Pkg: H 1 H Add 1 Pkgs Dele	te Pkg Process Shipment F10
Quit the application; prompts to save documents		Ver: 12.0.12 XOFY

# 16.1 pc/MRP Optional Modules

### **Optional Modules**

There are several optional modules available in pc/MRP. Most of these are testable in the trial version of pc/MRP, and available for a free trial in the full (purchased) version as well. Below is a brief description of each optional module. For further information you can refer to the specific chapter for each optional module.

#### **Optional Module Activation**

Optional Modules can be activated by following the instructions below.

For users on the trial, simply select Configuration, Module Activation, and the desired module. Then Click 'Activate'. Now from the drop down menu Optional you will see that applicable optional module activated. Modules activated while on pc/MRP's demo version do not expire. When the software is converted to a **full version**, they will simply be turned off until they are purchased.

Users that have a full version of pc/MRP can activate optional modules for ten (calendar) days by following the instructions above and selecting **Ten-Day** trial. After the 10 day trial period has expired, the modules will appear enabled. To purchase an optional module and receive the activation code for that module contact Software Arts.

Once an optional module is activated, it can be de-activated at any time by navigating to the Configuration, Module Activation, selecting the optional module, pressing the De-Activate button and re-entering the activation code.

#### **Advanced Password Module**

pc/MRP comes standard with one password, shared by all users. The optional Advanced Password Module allows the administrator to define usernames, passwords, and individual rights per module for users of pc/MRP.

## Infinite Bucket MRP Module (Scheduling)

pc/MRP comes standard with a single bucket MRP. The Single Bucket MRP does not schedule buy, issue, and make commands. The Optional Infinite Bucket MRP Module schedules buy, issue, make and sale action items according to due dates, lead times for assembly, and lead times from vendors.

#### **Barcode Module**

This package adds the ability to print Barcodes on reports or labels. You receive numerous barcode fonts as well a builder that guides the user through the process. Ask your sales representative for a current list of supports formats.

### **ECN Module**

This optional module allows users to keep track of Engineering Change Notices.

#### Sales Analysis Module

This optional module has several reports that are not available through the standard reports found in pc/MRP.

#### **Sales Quote Module**

This optional module allows users to provide sales quotes to potential customers and convert these quotes over to real sales orders as desired. The Infinite Bucket MRP can consider the sales quotes with a probability %.

## **Audit Trail Module**

This optional module allows administrators to track all edits made in pc/MRP (excluding Accounting). Once this module is activated all edits and deletes made will have a Name, Date, Time and Old Content, New Content record.

## **Purchase Request Module**

This optional module allows users to create external RFQs or internal purchase requests and convert them to real purchase orders as desired.

## Serial/Lot Number Tracking Module

pc/MRP comes standard with the ability to track one serial or lot number per line item. The optional Serial/Lot Number Tracking Module allows users to track an infinite number of serial numbers per line item. Users can print Advanced Tracking and Composition Reports and can assign subassembly serial numbers to topassembly serial numbers.

## **Employee Time Tracking Module**

This optional module allows users to create labor records per employee, sales order, or work order.

#### **Alternate Currency Module**

This optional module allows users to create and print documents (SO, PO, invoice, etc.) in different currencies.

#### **Inspection Module**

This optional module allows users to define and enter inspection criteria, perform inspections, and run inspection reports.

## **Routing Module**

This optional module allows users to have 25 Workstations in WIP. A Routing Template can be created for each BOM.

#### **Customer Bulk E-Mailer Module**

This optional module utilizes the address book to allow users to send newsletters, advertisements, or other types of documents in bulk to specified address types. (Customers, Vendors, Employees)

## **QuickBooks Export Module**

This optional module allows users routinely export AP, AR, inventory and address data out of pc/MRP and import into QuickBooks.

## **Corporate Enterprise Reporting Module**

The Corporate Enterprise Module allows companies to:

- Select one of three methods to have their parts list and BOMs automatically synchronized (including all indexes) across the world in real time.
- Switch from one division to another by selecting that division from the drop down menu.
- Print out consolidated financial reports for all divisions, business units, and the entire corporation. Currencies are automatically reconciled if pc/MRP's Alternate Currency Module is active.

## User Task Manager & Tickler Module

The User Task Manager & Tickler Module allows companies to:

- Quickly enter a tickler and reminder date/time for notification.
- Enter detailed information about a task or project to track.

## **Integrated Web Sales Site Interface**

This optional module allows users to manage orders created on a web sales site (currently ShopSite) by downloading and uploading the orders into pc/MRP's Sales Order module.

## Electronic Data Exchange (EDI) Module Overview

The Electronic Data Exchange (EDI) Module allows companies to have electronic data exchange between you, your customers and vendors.

## 16.2 Optional Advanced Password Module

## 16.2.1 Overview

pc/MRP's Advanced Password Module allows an infinite number of user name and password combinations. Each name and password combination can be assigned individual rights to each pc/MRP module. A user can have N No Access, V View only rights, C Create rights, E Edit rights, or D deletion rights to a module. pc/MRP encrypts the password database file.

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	l & Acress Rights							
× OUser Name	Password A	Routing	Inspection	Corp Report	Shipment	EDI	Inv Areas	PO Approval
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DOUG	****	N	N	N	N	N	Edit	Level 3 Approv 🔻
KIM	****	V	V	V	V	Ν	Edit	Level 1 Approv 🔻
KIM	***	D	D	D	D	D	Edit	Level 2 Approv 🔻
MASTER	*****	D	D	D	E	D	Edit	Level 3 Approv 🔻
ROB	****	E	E	D	D	V	Edit	Level 4 Approv 🔻
RON	****	D	D		0	F	Edit	No Approval R 💌
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An online slideshow is located here: http://www.pcmrp.com/mrp101/pw1.htm

If a text file named **CSTHDR.FLG** is present in the pcmrpw directory, the password module will allow both upper and lower case e and v to be entered. Using lower case letters will hide some of the cost fields in the inventory, stockroom and receiving modules. This feature is not supported or guaranteed.

Individual users have the ability to change their own passwords by selecting **Change Password of the Current User**. The user will be prompted to enter the current password, enter the new password, and confirm the new password.

To delete a user, select the user name and press the **Delete** button. The user's entry will turn red. Pressing the OK button will <u>remove</u> the marked user(s) and exit the Password module.

## 16.2.2 Installing the Advanced Password Module

To install PASSWORD, select Configuration, Module Activation, and then Password from the menu. Call Software Arts for the special activation number (Software Arts will invoice your company). Enter the special activation number when prompted. Exit pc/MRP and then re-enter pc/MRP using the name MASTER and the password MASTER. You might want to change the master password right away.

MASTER has all access rights to all modules including the password module. You can change the name of MASTER; however, you should leave one username/password with access rights to all modules including the password module. This will allow the network supervisor to be able to change the passwords in the future if necessary.

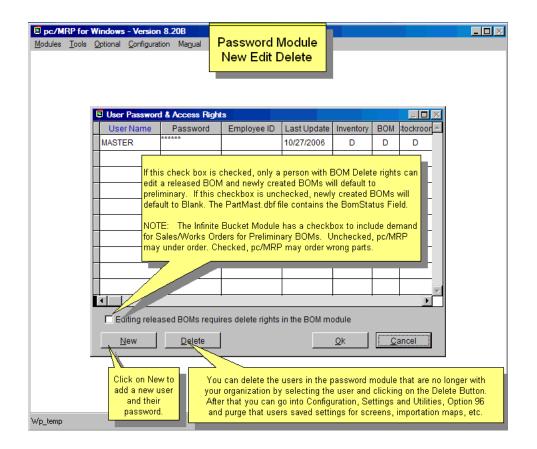
If a user's password is lost/forgotten, the user can ask the pc/MRP network supervisor to give them a new password. If no one can log in, call Software Arts. We will only give access to pc/MRP for a person on an administrative level.

After you activated the Password Module, your old (common) password will not work any more. You need to add each of your users to the Password module so that your users can enter pc/MRP.

## 16.2.3 Adding, Editing and Deleting within the Advanced Password Module

Select New to enter a new user.

🗷 VFP - C:\V914 (User: DOUG)			
Modules Tools Optional Configuration	in Manual	Password Module	
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Quick <u>B</u> ooks® Expo	rt 🕨	Print Access List	To Add, Edit or Delete a user and
Routing	•	-	password, select Optional,
Sales Analysis	•	<u>D</u> efault Settings	Password and New / Edit / Delete
Sales Quote	•		
Serial / Lot Trackin			
<u>U</u> ser Task Manage	® lickler ►	Software A	Arts
<u>W</u> eb Orders	•		
Add a new User and Password to the data	base		NUM



Checking the 'Editing released BOMs requires Delete rights in the BOM module' checkbox this box will require a user editing a released BOM to have Delete rights to the BOM Module. Please see Section 12.1.8 for more information.

**Note:** If this box is checked, the BOM status can be set only to Preliminary or Released (not Blank). For newly created BOMs Preliminary will be default. Already existing BOMs with a Blank status will remain Blank. Once changed to either Preliminary or Released, the status can not be changed back to Blank. Only users with BOM Delete rights will be able to edit Released BOMs.

**Note:** The optional Infinite Bucket module has a checkbox to include demand for Sales/Works Orders for Preliminary BOMs. Unchecked, pc/MRP may under order. Checked, pc/MRP may order the wrong parts.

**Create a New Record** with all rights initially as "N", or select an existing user who's settings are similar to the user you are about to enter, and **Duplicate the Selected Record** to start with.

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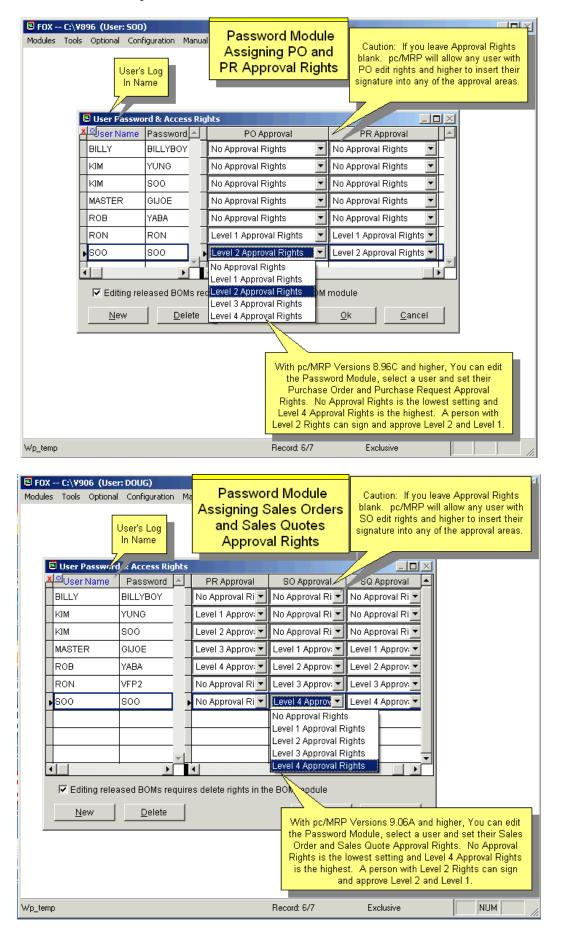
Record: 1/3

Exclusive

NUM

Wp\_temp

pc/MRP offers users to have rights to approve a purchase order, a purchase request, a sales order or a sales quote. Please see the Purchase/Sales chapters for more details.

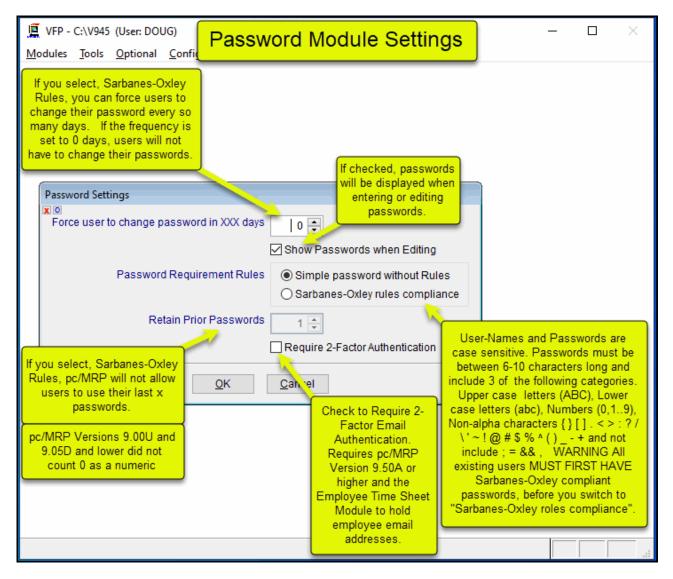


pc/MRP Versions 9.43A and Higher added the option to restrict users from accessing specific stockroom functions..

Modules I From Performing		ndividual Users
🔄 User Password & Access Rights this	s this button to restrict s user from performing specific stockroom functions	Approval SQ Approval ECN Appro
Select the Stockroom Transaction	actions to be hidden from th	e user.
L - Issue additional ma M - Issue individual Ma P - Issue multiple make S - Issue multiple make B - Transfer parts betw R - Receive Completed U - Receive parts from I A - Adjust inventory onh	keup or shortage parts to mfg e-up shortages from a single e-up shortages to mfg autom mblies to shipping. een inventory storage areas assemblies from mfg and B turned parts from mfg (neg is Receiving	This user would no longer be able to Receive back completed assemblies from manufacturing ack Flush consumed component parts sue)
<u>N</u> ew <u>D</u> elete		<u>O</u> k <u>C</u> ancel
		This Option is available on pc/MRP Versions 9.43A and higher.
Wp_temp	Record: 1/1	Exclusive NUM

## 16.2.4 Password Settings

pc/MRP supports Sarbanes-Oxley password rules (Optional, Password, Default Settings):



You can set up a password **refresh frequency**. If the password refresh frequency is set to 1 or more days, users will be prompted to enter a new password when they exceed the number of days allowed or the lastupdate field is empty for the user.

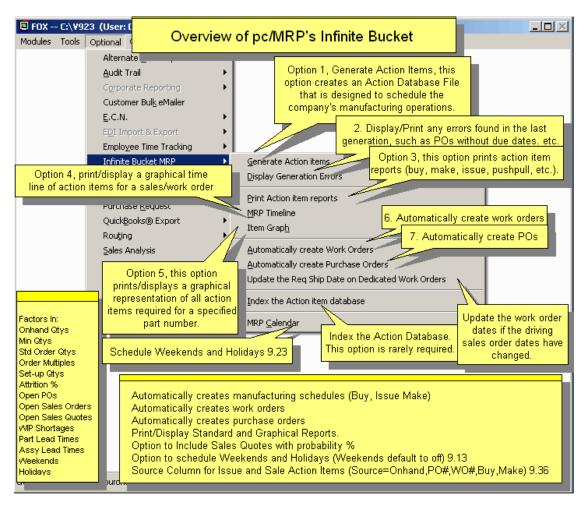
You can set whether passwords will be displayed or hidden when editing passwords.

pc/MRP Versions 9.50A and higher contain an option to **require 2-Factor Authentication** when logging into pc/MRP. This option requires that the optional Password and Employee modules have been activated. When a user logs in, pc/MRP will email the user a security code number. The user will have up to 10 minutes to enter the security code number. The users email address is stored in pc/MRP's employee's record in the pc/MRP's Employee Module.

Action to be performed		Rights needed
Cost Roll-up (if set by Option 47)	Е	Accounting
Edit an invoice or a receiver that has been posted or paid	Ε	Accounting
Credit Memos, New   Credit Memos, Attach		Accounting
Create an Independent credit memo and print a refund check		Accounting
Display general ledger transaction report	V	Accounting
Auto update the GL when entering an invoice/receiver (if auto accting on)	Е	Accounting
Alternate Currency Module		Accounting
Employee/Time sheet module		Accounting
Convert purchase request to purchase order	Ε	Purchase
QuickBooks Module	Ε	Accounting
Viewing, Creating or Editing BOMs same/higher rights as Inventory module		BOM, Inventory
Edit released BOMs (released BOMs requires Delete rights in the BOM)	D	BOM module
Activate an Optional Module (full or trial)	С	Configuration menu
View Configuration settings	С	Configuration menu
Edit Configuration settings / Run Utilities	Ε	Configuration menu
Set or remove Administrative Lockout	D	Configuration menu
Task Manager – view Active Tasks	Ν	Configuration menu
Task Manager - change settings or schedules	D	Configuration menu
Perform Auto Update (revision update)	D	Configuration menu
Physical Inventory: update OH qty and zero out team counts	D	Inventory
Access to the Command Line	D	Password
Inspection Module, Criteria Templates: Allow Exemptions, Admin only	D	Password
Adding a new user to the Password module	Ε	Password
Routing Module: Allow Deletions/Editing of Fields, Admin only		Password
MRP: Automatically create purchase orders	Ε	Purchase
MRP, Push-Pull Report: Update PO dates and zero out cancelled POs	Ε	Purchase, MRP
Create credit memo from the Sales module (if set by Option 95)	С	Sales
Reindex a file	D	the effected module
View credit card numbers and add new ones	С	Sales/Invoice/Accting
Entering Cycle Counts	Ε	Inventory
Approve PO, RFQ needs approval right for that module on that level or higher		
Access the Command Line	D	Password Module

# 16.3 Optional Infinite Bucket MRP Module

## 16.3.1 Overview



pc/MRP's Infinite Bucket MRP module generates an ACTION.DBF file containing dated action items (buy, make, issue, etc.). Once the action.dbf file has been generated, the data can be used to print out various purchasing and manufacturing scheduling reports. All action items are pegged (contains the driving sales/work order number). An online slideshow is located here: <u>http://www.pcmrp.com/mrp101/mrpoverview.htm</u>

The MRP reports are only up to date right after the MRP was generated. The longer the time between the MRP generations, the more outdated your reports will be. pc/MRP displays the date the MRP was last run. To learn about how to schedule automatic MRP runs, see the pc/MRP Scheduled Tasks in Chapter 15.16 of this Manual.

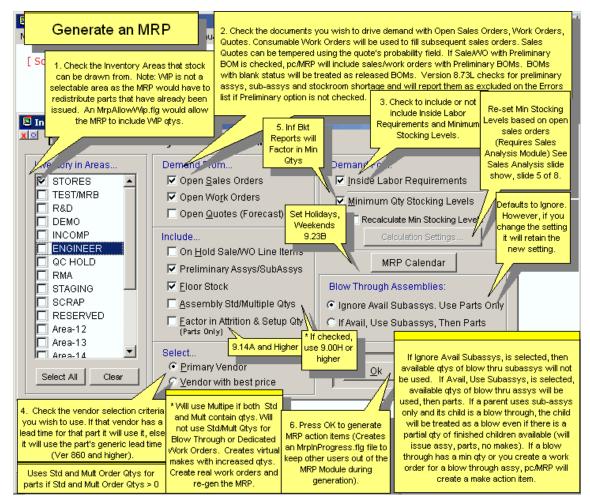
You can generate an MRP during the day. When you generate an MRP, Mrp2Gen.prg tries to get exclusive access to the MRP dbf files (Action, Avail, and MrpError). If it can not get exclusive access to those files because somebody else is generating an MRP or running an MRP Report, it will display an error message saying the files are in use. If it can get exclusive access to those files, it creates a lock (MrpInProgress.plf) which will keep others from generating an MRP or running an MRP Report while the new MRP databases are being generated. The MRP generation usually takes about 5 minutes. Once the MRP is generation is complete it will delete the lock.

pc/MRP's Infinite Bucket MRP module can be activated over the phone by contacting Software Arts at 408-226-7321 and obtaining the activation code number for this module. Click on the Configuration Option in pc/MRP's top menu bar, select Module Activation, Infinite Bucket MRP, and enter the activation code number when prompted.

## Using pc/MRP for Capacity Planning for Labor and Workstations (Machine Control)

To implement capacity planning for labor and workstations, you must associate inside labor parts with their respective workstations. In others words, you could have an inside labor part called "Wire Crimping Labor". Another inside labor part might be called "Wave Soldering Labor". Each inside labor part would have a unit of one hour and a cost for one hour of labor. Add these inside labor parts to your BOMs. For example, one specific cable assembly may require .05 hours of crimping labor. After you generate an MRP, print a weekly consolidated MRP Report. This report will display the number of labor hours required per week for each workstation.

## 16.3.2 Generating MRP Action Items



To generate MRP requirements, select "Optional" from pc/MRP's top menu bar. Select "Infinite Bucket MRP". Select "Generate MRP Action Items" as shown in the top slide above. The second slide shown above will allow you to select the inventory areas (stores and area2-area20) to fill the requirements.

**Note:** If a file named "**MRPALLOWWIP.FLG**" exist in the pc/MRP directory, users can include WIP. (Generally not recommended, see the next two paragraphs.)

Recommendations for companies that use the stock room's "I" type issue method to issue stock to manufacturing, "L" type issues to cover breakage and items missing on the BOM: Do not include WIP. The items in WIP have already been issued to existing sales and work orders on the floor and do not need to be reissued. If you use the default (do not include WIP), pc/MRP will generate action items to fill shortages for sales and work orders that

have already been issued to manufacturing. The BUY and ISSUE action item dates for shortages for sales/work orders that have been issued to the manufacturing floor will be time phased from the date the report was run and not based on when the sales order is due. The reason for this is to get the parts in as early as possible since the sales/work order is on the manufacturing floor being built.

Recommendations for companies that use the stock room's "L" type issue method instead of the "I" type, to issue stock to manufacturing: Select the "Include WIP" option. This is the only method that will work for those companies using the "L" type issues only. Selecting Include WIP has the drawback of creating issue action items for parts and assemblies that have already been issued. If you do "Include WIP", pc/MRP will generate action items to reissue sales and work orders that have already been issued to manufacturing. You must also select the items that will drive the demand open sales, open work orders and/or open sales quotes. Sales quotes can be tempered using the probability field.

You do not need to create work orders for sales orders as the stockroom can issue parts directly to sales orders.

If you do create work orders to fill existing or future sales orders, create work orders for sub-assemblies and check the work orders as consumable. (See Configuration, Settings and Utilities, **Option 66**.) Make sure the work order's date required is prior to the sales order's date required. Check both Sales Orders and Work Orders to drive demand, when generating the MRP.

If work orders are meant to keep the plant busy and not to fill existing sales orders, do not check the work orders as consumable. Check both Sales Orders and Work Orders to drive demand. (Examples would be building for R&D or Demo.)

If sales orders are checked as requiring dedicated work orders, pc/MRP will expect to find dedicated work orders for all the sub-assemblies that go into that sales order. It will display an error list if the dedicated work orders are missing or have incorrect quantities.

If "Sale/WO with Preliminary BOM" is checked, pc/MRP will include SOs/WOs for Preliminary BOMs (as the top assembly) (according to whether the first and/or the second box is checked). (Blank is *not* Preliminary.)

In addition, you can generate your labor requirements, if you check the labor requirements box and you have labor entered into your BOMs.

When generating an MRP, pc/MRP proceeds as follows:

- Enters ONHAND records in the action and available dbf files.
- Enters PO records in the action and available dbf files.
- Allocates completed work and sales orders that have not shipped.
- Allocates parts below min from avail and enters BUY records if not available.
- Processes all open sales orders, work orders and sales quotes in date required order creating BUY, ISSUE, MAKE, and SALE action items based on available quantities (after allocation), BOMs, and lead times.

When generating an MRP, pc/MRP will generate the following types of action records.

- ONHAND...Existing on hand quantity minqty of a part/assembly number
- PO.....Existing open purchase order for a part number
- BUY.....Computer generated buy requirement for a part number
- ISSUE....Computer generated stock issue requirement for a part/assembly number
- MAKE.....Computer generated make assembly/subassembly requirement for an assembly
- LABOR....Computer generated labor requirement generated after on hand quantity has been allocated
- SALE.....Existing open sales/work order for a part/assembly number

**Note:** If pc/MRP generates a "MAKE" action item for an assembly and the driving sales/work order is listed as "MINQTY", you should create a consumable work order for that assembly and rerun the MRP with the new work order(s). To see what action items are driven by BOM minimum quantities, enter 'MINQTY' in the selection box for SO/WO# when you select the All for a Sales/Work Order Number. For more details see Section 16.3.3.1.1.

When generating a "BUY" action item, pc/MRP will use the standard order quantity (for part numbers) if the standard order quantity is greater than the quantity required. It will place the excess in the avail.dbf file to fill additional purchase requirements.

If you select Include Labor, when you generate your MRP, pc/MRP will generate LABOR action items once the onhand quantity and purchasing quantity of action items has been allocated. To see your total labor requirements, make sure the on hand quantity of labor action items in the partmaster is equal to 0.

Once the Infinite Bucket Module has finished generating the action items, it will update the MRP Available field for each part in the part master. The MRP Available field will contain the quantity available after allocation (onhand+POs-issues and sales action items-minqty\*\*). A negative quantity in this field indicates that the part needs to be purchased and BUY action items were generated. However, please note that the BUY action items may not equal the gty available as the BUY action items can be increased by the standard order gty. If the total onhand quantity of the selected areas is negative, pc/MRP will consider the total quantity of the selected areas to be 0 when calculating the new quantity available. When pc/MRP re-calculates the quantity available field for assemblies and sub-assemblies it does not increase the quantity available for make action items. It simply takes the total quantity of the selected areas (or 0 if negative) and subtracts the quantity of the SALE action items. It does not increase the available quantity from MAKE action items as these assemblies are consumed by higherlevel assemblies reporting directly to a sales or work order. If it is a top-level assembly for a sales or work order, it does not increase the quantity available as the sales or work order is not available until it is returned from stock \*\*The minimum quantity will not be factored in if you were running the IB-MRP and as finished assembly. did not include demand for Minimum Quantities. Note: When pc/MRP creates the action items, it always respects the mingty checkbox, regardless of version.

pc/MRP will assign the driving sales/work order to existing PO action items based on the earliest sales/work order that needs to allocate parts from that PO. pc/MRP does not carry over the related document number into the avail database file. As such, the Infinite Bucket reports may indicate that a sales order with an earlier due date requires this PO.

Sales Quotes with a date required earlier than the current date would not be used for the MRP run (quote expired). pc/MRP will insert the sales quote into the error file notifying you that the MRP run did not use this sales quote.

pc/MRP will create a **MRPINPROGRESS.FLG** file whenever an MRP is generated. This file will keep others from using the Infinite Bucket Module while the flag file is in existence. The MrpInProgress.flg file is automatically deleted after the mrp generation is complete or the MrpInProgress file is over an hour old and a user tries to access the Infinite Bucket Module.

pc/MRP checks for exclusive use of the ACTION.DBF file prior to allowing a person to generate an MRP. If the person trying to generate the MRP gets a message indicating the action.dbf file is in use, it means another user is printing or displaying an MRP report. The person trying to generate an MRP must wait until the user printing an MRP report is finished.

pc/MRP checks to ensure that sales order line item qtys that have been assembled but not shipped are still available. If assemblies are missing, it adds the error message "Error, sales orders for part number xxx were assembled but not shipped. Please create a consumable work order for xxx units and re-generate the MRP."

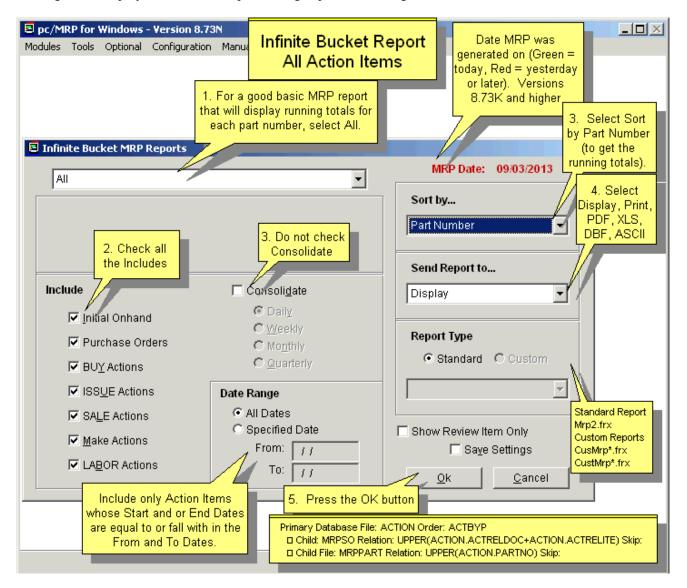
The MRP will go through the Stockroom records to find shortages. Shortages take precedence: they should be filled as soon as possible. If a subassembly is preliminary and is listed as a shortage, it will not be included, and will be reported as excluded on the error list. When processing the open sales and work orders, is the sales or work order contains a preliminary assembly or top assembly, it will not be included, and will be reported as excluded on the error list.

The MRP generation will respect assemblies' **Std Order Qty and Order Multiple** quantity, if you check the Assembly Std/Multiple Qtys button. If both are filled out, Order Multiple will be used. This feature doesn't apply to Blow Through assemblies or Dedicated Work Orders. Normally, when pc/MRP creates Virtual Make action items, those are only for your information, and you don't have to enter real work orders for them. In this case,

since you are building more items than required by the higher level SO/WO, you do have to enter real work orders for the virtual work orders. Otherwise you won't be able to issue the required quantity of parts/subassys.

#### 16.3.3 Print/Display Action Item Reports

Selecting Print/Display Action Item Reports brings up the following screen:

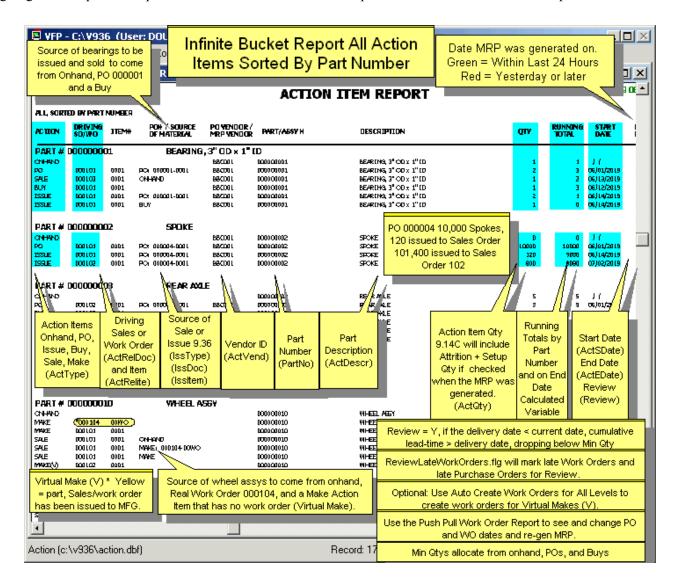


**Note:** When creating an action item report for a Sales Quote, select All for a Sales/Work Order Number. You must type in the quote number and the line item number starting with a Q as pc/MRP would only scroll for sales and work order records. For sales quote 000002 line item 0001 you would type in 000002 and Q001. pc/MRP will display all the action items for that sales quote line item number including buy action items.

**Note:** The date the MRP was last generated is displayed in green if the MRP was last generated on the current day. The date is displayed in red and bold, if the MRP is older than that. Each report displays this time stamp.

#### 16.3.3.1 Non-Consolidated Reports

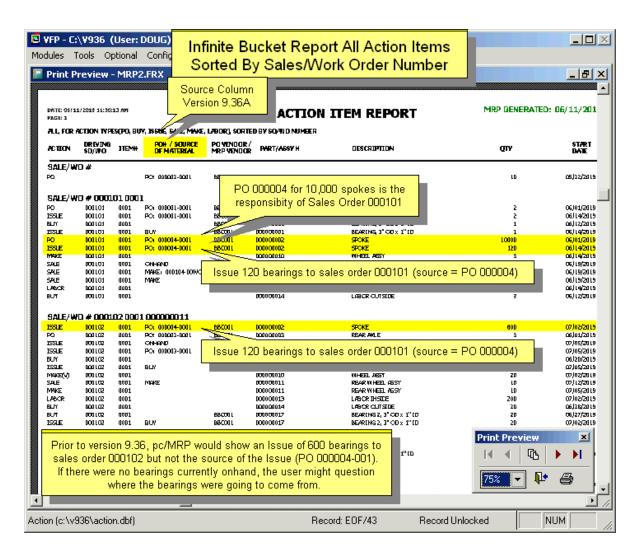
Not checking the "Consolidation" check box will print/display all individual action items. The non-consolidated reports can provide daily lists or schedule of action items. This type of report can be used to see exactly what is going on for a particular part number or sales order. An example of a non-consolidated MRP report follows:



The non-consolidation report MRP (mrp2.frx) uses the action.dbf and includes the following columns:

- Action SALE, PO, ONHAND, BUY, ISSUE, MAKE (ActType)
- Driving Sales/WO (ActReldoc)
- Driving Sale/WO item # (ActRelIte)
- PO# , only used for PO action items (ActDoc)
- PO / Source of Material (IssType, IssDoc, IssItem) Source of Issue, Sale Version 9.36
- Vendor ID (ActVend)
- Part/Assy # (PartNo)
- Part/Assy Description (ActDescr)
- Action Quantity (ActQty)
- Running Total (only if all items are included and the following is true)
  - Running Part Total (all action items for a part number sorted by date)
  - Running Total (all action items or all for a part sorted by part number)

- Start Date (ActSDate) PO date, BUY 'place on date', or MAKE start date (back calculated from SO/WO date required minus assy, sub-assy, and component lead times)
- End Date (ActEDate) PO date required, BUY due date, MAKE finish date (back calculated from SO/WO due date minus assy and sub-assy lead times)
- Review (Review)
  - Will contain a Y if the scheduled delivery date is less than the current date or the lead-time exceeds the scheduled delivery date.
  - Will contain a Y for late work orders if **REVIEWLATEWORKORDERS.FLG** exists.
  - Will contain an S if it is a shortage on the mfg floor for a sales/work order that has already been issued.
- Action.Dbf fields not included on the Mrp2.frx Report
  - Dedicated Sales Order Number (RelSoNo)
  - Dedicated Sales Order Item Number (RelItemNo)
  - Division (Division) inserted from partmaster
  - Top Assembly listed on the driving sales/work order number (TopAssy)
  - Parent Assembly (ParAssy) not currently used.
  - (SourceIss), not used at this point.



Modules		Optiona	al Config	Inini		port All Action Items er Distribution		
	7/2019 03:5		- 2.1 KA	Source C	olumn Version 9.3		MRP DENERA	VTED: 06/17/2019
	IED BY PAR	TNUMBER	1					
ACTION	DREVIN6 SD/WO		POH / SI DF MATE	DURCE PO M	endor/ Vendor Part/Assy H	DESCRIPTION		RUNNING START TOTAL DATE
PART # CN+440 P0 SALE	000103	001. 00D1	BE PC: 000001. CNHAND	ARING, 3" 01 8800 1001 8800 8800	81 000000001 91 000000001	BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID	1 2 1	1 )/ 3 06/07/2019 2 06/19/2019
PART # 31+44-0 P0	000000	102	SP PC1 00004-	OKE 1001 88:00		e a work order for 1000 sub-ass ould list the the qty to be issue		
PART # CNHAND PO BUT ISSLE ISSLE ISSLE		0001 0001 0001 0001 0001 0001	RE Po: 000003- 011-1940 Po: 000003- 8L17		In the example a work order the used to fill sal	e below there are no wheel sub hat has been issued to manufa les order 00101 for 10 wheels, as order 000102 for 10 rear axis	cturing for 40, 1 and 20 will be is	O will be
PART# 01+#1+0 P0	000000	104	NU PC: 000002-			es order doordz for to rear axis	assemblies.	
PART # CN+AND MAKE SALE ISSUE	0000000 000104 000101 000102	010 00₩0) 0001 0001	WI MAKE: 00010 MAKE: 00010		001001010 00100010 00000010 00000010	WHEEL AGT WHEEL AGT WHEEL AGT WHEEL AGT	0 40 10 20	0 ) ( 40 06)18/2019 30 06)25/2019 30 07)12/2019
PART# CNHAND MAKE SALE	0000000 00102 00102	00D1 00D1 00D1	RE Make	ar wheel a	XLE ASSY D00000011 D00000011 D00000011	rear Wheel Arle Assy Rear Wheel Assy Rear Wheel Assy	D 10 10	0 )( 10 07)[2/2015 0 07][5/2015
<b>PART#</b> CN <b>HA</b> ND BUY	MINQTY	112	PA	PER OFFICE	5UPPLY (Nani) nyentory 1 00000012 00000012	På PAPER OFFICE SUPPLY() kon Inveniory Pa PAPER OFFICE SUPPLY() kon Inveniory Pa	Print Preview	19
PART#	000000	)13		BOR INSIDE	<b>171</b> 0/70017		75% 🗸	ب م ا
Action (c:N	v936\ac	tion.dbf)	1			Record: 9/29 Record	Unlocked	

Software Arts recommends printing the following non-consolidated report after generating an MRP. Do not check the Consolidated check box. Select all action items to include, (Initial Onhand Quantity, Purchase Orders, Buy, Issue, Sale, Make, and Labor) sorted by part number (sub-sorts by date). This provides a list of to do action items for each part number with a running onhand total since the part number sort is sub sorted by date.

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	Print Prev					×					_ 8 >
, Prince I	I4 4	<b></b>	► FE	75%	- 1	6					
PAGE: 1						ACTION	N ITE	M REPORT		30	rens Contol-21 rint the Mata or any po/ADP
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ONHAND					<b>ABC001</b>	000000001		ELRING, 3" OD		2	11
BUY	MINOTY				180001	000000001		EIRING, 3" OD		5	08/21/2012
BUY	000103	0001			ABC001	000000001	-	EARING SS	1	6	08/21/2012
BUT	( <u>*000101</u>				VBC001	000000001		EARING, 3" OD	-	11	
ISSUE	(*000101	<u> </u>			1BC001	000000001		ELRING, 3" OD	-	6	
PO	MINOTY	1	000001		BBCOOL	00000001		EIRING SS	5	11	
SALE	000103	0001			ABC001	000000001	-	EARING SS	1	10	
BUT ISSUE	000102	0001 0001			ABC001 ABC001	000000001		EARING, 3" OD EARING, 3" OD		25 10	09/20/2012
PART #	000000	02	58								1 / /
BUT	DINGTY										8/21/201:
BUT	000102	000	pc/M	RP Vers	ions 8.6	60AD. 8.64L	8.70A	8.71B and hid	her added the v	vellow	9/19/2012
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ISSUE	000102	000							ed. If it is a BU		9/22/2012
PART #	0000000	103	ltem, o you iss	irder the sued sub	part. If assem	there is no s blies only an	uch sti id one i	ockroom record or more of the	d, it would indic: sub-assys were	ate that issued	1.1
BUT	000102	000							ssy (just a mak		9/10/2013
ISSUE	000102	000							er for the sub as		9/25/201:
ISSUE	000102	000							r than the date i		9/25/2012
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ONHAND PO											_
											<u> </u>

If there is a question about a certain part number's action item quantities, run the following report. Select "All for a part number" and include all action items sorted by date. Do not check the Consolidated check box. This provides a list of to do action items for that part number with a running onhand since the action items are sorted by date.

pc/MRP for \	Windo	finite	Dual	-		r o Dout	N lu una la v	v Da	<b>.</b> .		
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										(to ge running	et the totals).
📕 Infinit	e Bucket MR	P Report	s								
All f	or a Part Nun	nber				•		IRP Dat	e: 02/25/		Select vy, Print,
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all the					Dates		1			Custom	Reports
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pc/MRP for	In	finite l	Buck	et MR		a Part I	Numbe	r Rei	oort		
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ALL FOR PART# (	00000003, SO	RTED BY EI		ATE							
	G				Part/Assy #	DECONDIN		RUNNIN	g start	END	REVIEW
ACTION SALES/	WO ITEM#	P0# 1	EM#	VENDOR	PARI/ASSY #	DESCRIPTIC	ON QTY	TOTAL	DATE	DATE	KEVIEW
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						REAK AVEC	· ·	v			
EN D DATE 02				0.071				_		02/25/2016	
PO MINQTY	T	000003 0	001 M	00001	000000003	REAR AXLE	2	2	02/25/2016	02/25/2016	
EN D DATE 03	/03/2016										
BUY MINQTY BUY 000104					000000003	REAR AXLE	3	5		03/03/2016 03/03/2016	
BUY 000104 ISSUE 000104					000000003	REAR AXLE REAR AXLE	5	10 5		03/03/2016 03/03/2016	

END DATE 03/31/2016 0001 000000003 REAR AXLE 10 15 03/24/2016 03/31/2016 0001 000000003 03/31/2016 03/31/2016 REAR AXLE 10 5 The Standard Report is MRP2.FRX The report starts with the current on hand quantity, and displays all expected quantity changes for this part in a chronological order. It also shows a running total. Note: this part has a minimum qty of 5. Primary Database File: ACTION Order: ACTBYD Child DataBase File: MRPSO Relation: UPPER(ACTION.ACTRELDOC+ACTION.ACTRELITE) Child DataBase File: MRPPART Relation: UPPER(ACTION.PARTNO)

00000003

000000003

6 03/11/2016 03/18/2016

03/18/2016 03/18/2016

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1 5

REAR AXLE

REAR AXLE

EN D DATE 03/18/2016

0001

0001

000105

000105

000102

000102

BUY

SALE

BUY

ISSUE

Running totals are incremented by Onhand, PO, and Buy action items. Running totals are decremented by Issue and Sale action items. Running totals are NOT incremented for Make action items driven by a higher-level sales/work orders (Virtual Makes) as these subassys go into the higher-level assemblies for the driving sales/work order and not into inventory. If a sales or work order is created for a Make action item, the running total will be increased as that item must go back into stock and will be issued to another sales or work order later.

pc/MRP marks **virtual makes** with **MAKE(V)**. This indicates this assembly is scheduled to be issued as parts when a higher level sales order or work order is issued. If you were to create its own work order (Optional, Infinite Bucket, Auto Create Work Orders), regenerate the MRP, and display this report again, it would have its own work order number and no longer be marked as virtual. However you will now have to issue and receive back this work order before you issue the higher level work or sales order. Virtual Makes allow manufacturing to work on the entire job concurrently.

		i <mark>ser: DOUG)</mark> ional Confiç		М	RP Re	ports Virt	ual Mal	kes				
		MRP2.FRX 2 01:10:32			Print	Preview			×			_ 8
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ONHAND					ABC001	00000001		9G, 3″0D >	C	102	102	
PO			001 00		BBC001	00000001	BEIRIC			5	107	10/21/201:
SALE	000103	0001			ABC001	000000001	BEARIN		_	1	106	11/02/201
ISSUE ISSUE	000101 000102	0001 0001			ABC001 ABC001	000000001		NG, 3″ OD >		5	101 81	11/27/201; 12/02/201;
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PART 🛉	00000											
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10			00	101	PPCOOL	00000004	101			10	20	10/11/201
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SALE 📈	0.0101	0001				000000010	UHEEL	ASSY		10	0	11/30/201
	000102	0001				000000010	UHEEL	ASST		20	0	12/02/201
NAKE (V)												
NAKE (V)												
	72\action.						rd: 6/31		ecord Unio			NUM

## 16.3.3.1.1 Minimum Quantities Set for Assemblies

An online slideshow is located here: http://www.pcmrp.com/mrp101/assymingtyssetmingty.htm

If a minimum quantity is set for an assembly and the IB generation is set to include demand for minimum quantity, then the IB will create a virtual MAKE action for any insufficient quantity of the assembly. You can manually or automatically create the WO for the assembly. Make sure you allow enough time to purchase material and assemble the product. Now run the IB generation again to see the real WO for the assembly and the BUY items for the parts.

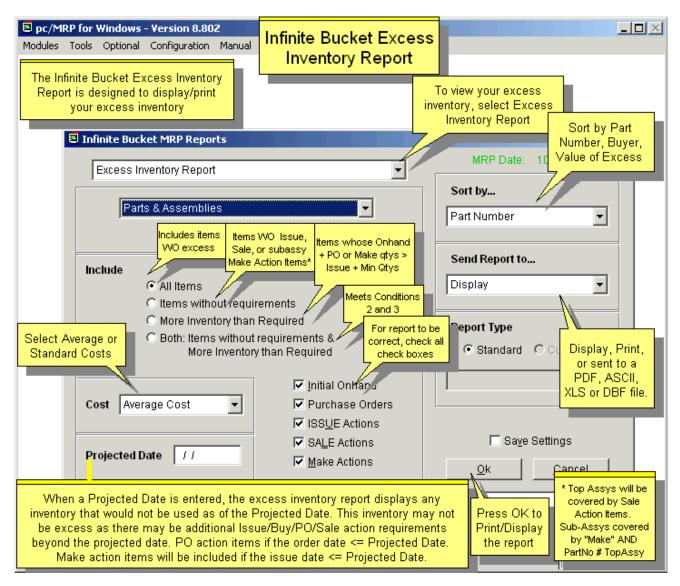
#### 16.3.3.2 Consolidated Reports

Check the "Consolidated" check box. These reports will consolidate and sub-total the action items based on the consolidation period selected. As a result, the consolidated reports are shorter than the non-consolidated reports but they are not as detailed. If you wanted to create work orders for sub-assemblies, you could run a monthly consolidation report, create consumable work orders for every sub-assemblies make action item whose due date was the first of the month, and then regenerate your MRP. Please note, that it is not necessary to create a work order for every sub-assembly with pc/MRP. An example of a consolidation report follows:

pc/MRP for Windows - Ver dules Tools Optional Con Print Preview - MRP2CON	figuration Manue Consolida			1			
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PERIOD PART SIDDER	DESCRIPTION	POK	DUYS	133UEs	SALES		LADOR
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10/21/2013 000000001 PART RUMBER 000000002	67233120), 3° CD x 1° ED	٥	0	EO	٥	D	٥
19/16/2013 00000002 10/14/2013 00000002 10/21/2013 00000002	SDER SDER SDER	0 0 0	0 210 210	0 200 600	0 0	0 0 0	0 0 0
PART RUBERS, 000000003 10/07/2013 000000009 10/21/2013 000000009	BEAR ACLE	0	12 0	0 10	0	D D	0
PART HUMBER 00000004 10/07/2018 00000004 PART HUMBER 000000010	807	10	٥	0	D	D	٥
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The consolidated MRP report (mrp2cons.frx) uses the mrp2cons.dbf file and includes the columns shown above. The Weekly Consolidation Report will display consolidated buy requirements and consolidated machine/labor required hours for each week.

#### 16.3.3.3 Excess Inventory Report



Selecting the Excess Inventory Options will print/display a report similar to the report shown below.

📓 Print F	Preview - MRP2EXCS.FRX						_	
	Print Pre	eview │ ⓑ │ 〉 )	1 75%	× 8 4 6	1			
<b>TE: 03/05</b> L Parts,	/2004 Pr FOR ACTION TYPES(ONHAND, PO, 199	rojected De, Sale, Mai			-	:55	PAGE: 1	
RT HUMBER	DESCRIPTION	57D COST	ORHARD QTY	MARE+PO MARE QTY	ISS+SALBS USAGB QIY	ная бал	ONH+MAKE -USE-MIN EXCESS QIY	12 12
20001	ETARDAC S.COOD x 1.0000 1.000000 33	10.0000	200.000	5,000	25.000	10.000	169.000	
0004	ND7	2.0000	10.000	10.000	0.000	0.000	20.000	
0012	DIDIE OFFICE SUPPLY (NonInnem.ory Pa	1.0000	5.000	0.000	0.000	10.000	0.000	
					Exces		Duantities and	
4						-	ar to the right.	

The above columns consist of the following action item quantities

- The onhand action item qty into onhand qty column
- The sum of the make and PO action item quantities (but not the BUY actions) into the make qty column
- The sum of the issue and sale action item quantities into the usage qty column
- The minimum qty into the minimum qty column
- The onhand + make usage min quantities into the excess qty column

This report uses action.dbf (parent) and partmast.dbf (child) to create an exectmp.dbf file. It then uses this file and the mrp2execs form to create the report. This report uses program code (and not report code) to total up the column quantities.

This report adds an additional issue transaction for make transaction types when the part number does not equal the top assembly number. This keeps subassemblies for sales and work order subassemblies from showing up as excess. The excess inventory report does not print/display parts or assemblies that are not in excess. Checking the include checkboxes to include initial onhand quantities, purchase orders, etc. will make sure these action items are included in the above quantity calculations.

When a Projected Date is entered, the excess inventory report displays any inventory that would not be used as of the Projected Date. This inventory may not be excess as there may be additional Issue/Buy/PO/Sale action requirements beyond the projected date. (PO action items will be included if the order date is on or before the date specified, MAKE items will be included if the issue date is on or before the projected date.)

pc/MRP will display items without excess inventory if you select, "Include All Items". The Excess Inventory for items without excess inventory will be \$0.00.

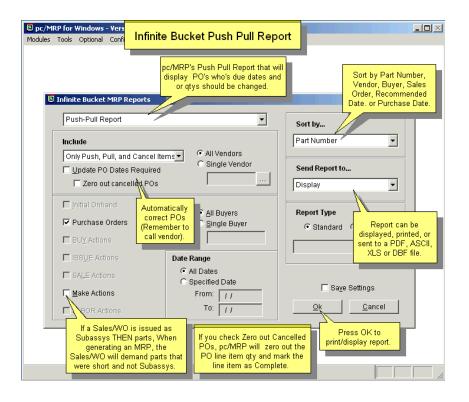
# 16.3.3.4 Pre-Shortage Report

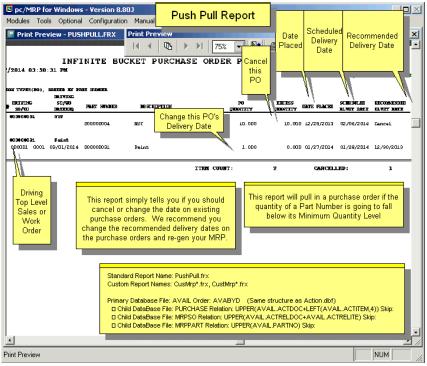
This report lists all Buy and PO action items including the push pull dates for the Purchase Order action items. This report (mrp2cbpp.frx) uses the action.dbf as the parent database file and purchase.dbf and mrppart.dbf are the child dbf files of the action.dbf file. The Issue action items will only be displayed if there is a problem with the issue (a capital "Y" in the review field).

pc/MRP for Windows - Version 8.80Z Modules Tools Optional Configuration Manua	Infinite Bucket Pre-Shortage Report	
<ul> <li>Print Preview - MRP2CBPP.FRX</li> <li>The Infinite Bucket Pre-Shortage Report basically a combination Buy and Push Pull for every part number that has an open Bu or Change Delivery Date Recommendat</li> <li>DATE: 09/26/2014 03:25:25 Pd PAGE: 1</li> <li>JLL, FOR LOTION TYPES (PO, BUY, ISSUE), S</li> </ul>	I Report Jy, PO, tion. Important Information concerning the PRE-	RT
DELIVING         LIENAH         POH         LIENAH           SALES/W0         ITENAH         SALES/W0         ITENAH           PARI #:         00000001         BEARING SS           STD COST:         10.000000         MU           AYE COST:         10.000000         CONNENTS:           CONNENTS:         This field can contian additi	QUANTITY PLACE DATE ANUFACTURERS: imatch/ven good fuz 1 match per vendor opal data 1 match per vendor	SCHEDULED BECOMMERDED DELWRY DATE DELWRY DATE BUYER: RIM Test MODELS: 555050-1 5555003-1 5555050-1
ВU7 000103 0001 РО ИЛИТУ 000001 0001 ВU7 000101 0001 ВU7 000102 0001	1.000 09/24/2014 5.000 09/16/2014 5.000 10/19/2014 20.000 10/26/2014	09/26/2014 09/28/2014 09/26/2014 10/21/2014 10/28/2014
Buy Driving Number Action Sales or for this Eltems for Work PN this PN Order	ARUFACTURERS: 500.000 510.000 ARUFACTURERS:	BUZER: 1 VS MDDBLS 9/29/2014 0/28/2014 BUZER: MDDBLS
BUY 000102 0001 PARIH: 00000004 JUT	12.000 10/16/2014	10/31/2014 BUTER: DOUG
STD COST: 0. AVE COST: 0. Primary Database Child DataBase	File: ACTION Order: ACTBYP File: PURCHASE Relation: UPPER(ACTIO File: MRPPART Relation: UPPER(ACTION	N.ACTDOC+LEFT(ACTION.ACTITEM,4)) Skip:
Action (c:\pcmrpw880\action.dbf)	Record: 25/38	Record Unlocked

#### 16.3.3.5 Push Pull Report

The Infinite Bucket Push Pull Report lists each PO with its scheduled delivery date and pc/MRP's recommended delivery date. This report is available after an MRP generation and has the option to modify the PO date required as well as zero-out cancelled POs. This report (pushpull.frx) uses avail.dbf as the parent database with mrpso.dbf and mrppart.dbf as child database files. You must have PO & MRP "Edit" rights to enable "Update PO Dates" and "Zero out Cancelled POs." It is always advisable to produce a report first before updating the dates & quantities, to help your buyers call the vendors about the modifications.





If you select to update the PO dates and quantities, please heed the warnings below.

Push-Pull Report		Sort by
nclude Include all Purchase Order I	All Vendors	Date
✓ Update PO Dates Required ✓ Zero out cancelled POs	n	ARNING!
	All Buyers     Single Buyer Update PO Dates Required	
message below askin advisable to "Save Se this willautomatically u	cancelled POs", you will get ng for verification. Also, it is i ettings" with these settings s update all POs as needed ev in-advertantly press YES!	not set as
Please be advised they WILL alter you Zeroing Out cancel		

In rare cases pc/MRP might suggest that you pull a purchase order to an earlier date, when you really don't have to. The following slide shows an example. The SO that is due <u>later</u>, needs the same paint <u>earlier</u> than the other SO. The onhand qty of the paint will be allocated to the SO that needs it later (simply because the SO due date is earlier than for the other SO). The push-pull report will suggest to move the PO early, to satisfy the demand of the other SO. If you spot this scenario, run an action report, all for a part (the paint), check all include choices and sort by ending date. The diving SO/WO Datereq value from the push-pull report will help identifying the SO that uses the current onhand qty (but wouldn't need it until a later point in time). If you confirm that the onhand quantity never goes to negative, and you are facing the above descried rare scenario, you can ignore the suggestion of the push-pull report.

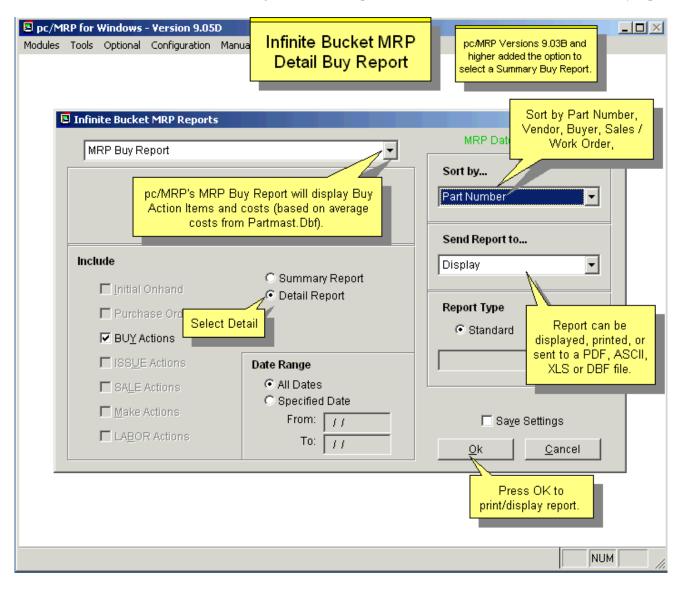
VFP - C:\V:     Modules Too     Print Prev /2015 02:58:16	ls Option view - PUS	al Configural 5HPULL.FRX	Print Prev	R R	Pull Report are Case		×1 [	cheduled Delivery Date //11/2015	Recom Deliver 07/29	mended y Date	
(TYPES(PO), SORTE (CRIVING SO/WO 10/L1/2015 000111 001	D BY DATE DRIVING \$D/WO DATERED 09/27/2015	PART NUMBER	De	SCROPTION	QUAA DO	10.010	DATE AN ILLA EXCE22	DATE PLACED 00 (77/28/2015	SCHEDULED DLVRY DATE	RECOMMEND DLVRY DATE	
Date Re	rder (00011 eq that nee n the PO sc	ds parts	Sales Order 0 1 Tricycle Ass Lead Time 30 Date Req 09/2 Sales Order 0 1 Bike Assy Lead Time 30 Date Req 09/2	00110 sy Days 0/2015 00111 Days	ITEM COUNT: 1 Paint Lead Time 30 Days Issue 08/21/2015 Wheel Assy Lead Time 30 Days		NCNR: 0 Paint Lead Time		CANCELLE	); O	_
9/20/15 w on hand au Sales Ord- an additior date, the M later and w changing t allocated t may still co	hich requir nd an exist er 000110 i nal sub-ass /RP proces /RP pro	es 5 gals of pa ing purchase of requires red p sy with a lead t esed it first and ed qty from th quired on the e ler 000110. S the early) OR a	commend pulling aint, and sales o order for 10 gal aint to be issue- time that require a allocated the o existing purch existing PO to 00 olution: Change uto create wor	g in a PO ea order 00011 is of paint du d on 8/21/15 es the same onhand qty ( hase order t 7/29/2015 e the date rei k orders (Pe	Start 07/29/2015 riler than needed. In t 1 due 09/27/15 which ue on 10/11/2015. 5 due to a 30 day lead red paint on 07/29/20 of the paint to sales or hat is scheduled to ar ven though there will I guired on the PO as p er order requirement, I omputer date 08/27/20	his exar require time to 115. Sin der 000 rive on 1 be some er the pu Lower le	s 5 gals of for the tricy ce sales or 1110. Sale 10/11/2015 a in stock in ush pull rep evel sub-as	ve sales o paint. The ycle. Sales yder 000110 s Order 00 . So the pu that time, t poort and reg ssys only) a	re are 7 gal Order 000 <sup>2</sup> ) had an ea 0111 was p ish pull reco put the stoc jen your MR and regen y	s of paint 1111 has rlier due processed primends k was k was RP (the part rour MRP.	

#### 16.3.3.6 Issued Shortage Report

pc/MRP's Issued Shortage Report lists all issued stockroom shortages. It uses the Action Item data base file, action.dbf. It sets both mrpstock and mrpso as children database files. When it locates a make action item for the top assembly of a sales/work order, it will insert a record into TempShrt.dbf for every stockroom part number issued to that sales/work order. The TempShrt.dbf record contains the sales order's mrpso.issuedtmf, mrpso.orqtyreq, mrpso.qtyassm fields and the stockroom's mrpstock.qtyissued, mrpstock.qtyreq fields. The routing.dbf is a child of the TempShrt.dbf. The report MrpShrt2.frx will use the tempshrt.dbf and display all stock room shortage records where the qtyissued < qtyreq. This report must be run right after an MRP run and not days later as it captures the shortages on the day the MRP is run. If sufficient inventory exists to cover the MAKE action item for a sales order, the sales order will not appear on the report (SOs that have not been issued yet).

#### 16.3.3.7 MRP Buy Report

The MRP Buy Report uses the action database file with the partmast.dbf as the child file. It displays buy action items (MRP2BUY.FRX) and uses the average cost from the partmaster. You can run a detail or a summary report.



pc/MRP for Winde Modules Tools Optic     Print Preview - N	onal Config <mark>, Ir</mark>	ıfinite Bucket D		Report	Aver Co	age Unit st from rtmast	_ D × _ B ×
DATE: 06/17/2014 01: PAGE: 1	:17:54 PK	MRP BU	Y REPORT				014 02
LL, FOR ACTION TYP	ES (BUT), SORTED	BY PART NUMBER					
ALESAN THERE MANDER	FRAT / ASSY # 1	BY INSCREDUCE		रू ग	TDAIX COST	CO FF	ST ALC DATE
ART # 00000001	BEARING ,	3'00 x 1' 10					
000101 0001 780001	D00000001 M	E FRARING, 3" OD H 1' ID	55 EO 50-1	δ	6.033068	30.165	Z D6/ZZ/
000103 0001 780001	000000001 M	BC BRARING SS	55E050-1	1	6.033068	6.D33	0.067237
000705 0007 1312007	00000001 M	BC FRARING, 3" OD K 1' ID	85E050-1	zo	6. 033068	120.661	1.06/2.8/
			SUD TOTAL	26		156.259	5
ART # 00000002							
NT10, 17	200000002			500	1.000000		005/28/
000102 0001	200000002	SD OF T		510	1.000000		DD6/24/ -
AR7 # 00000003	PEAP AVI		SUD TOTAL	1010		1010.00D	•
	DOGOODOGS	REAR AXLE		12	1000, 000000	1200 D. DOG	0.0671.77
			SUE TOTAL	12		120D0.00D	-
ART # 000000012	PAPER OF	FICE SUPPLY(MonInvento				12000.000	•
2000,17	00000012	PAPER OFFICE SUPPLY (No	-	5	1.000000	6.D00	D D5/20/
			SUB TOTAL	5		5.000	
ART # 000000013	LABOR IN	SIDE					
ALLING IT	00000013	LABOR INSIDE		δ	zo. 000000	Ta b. Doa	0.05/28/
			SUD TOTAL	5		108.880	•
ART # 00000014							
000101 0001	00000014	LIBOR OUTSIDE		2	20.000000		006/22/
000102 0001	00000014	LIBOR OUTSIDE		20	20.000000		DD6/25/ -
			SUD TOTAL	25	_	500.000	
				GRA	AND TOTAL	13771.859	5
Driving Sales/Work							
Order Pr	🗆 Child DataBase F	e: ACTION Order: ACTBYP ile: PARTVEND Relation: UP ile: PARTMAST Relation: UP	PPER(ACTION.ACTVEND+/			Total co Buys bas Average	sed on

Print Preview       Print Preview         Image: A state of the state
MRP BUY REPORT (Summary)
DESCRIPTION VENDOR PN/MODELNO VENDOR QTV UNIT ENTENDI COST COST
BEAR(Hs_3* CD x 1*1D         J11-0302-001         ABC001         ARROW ELECTRCNECS         26         10.000001         26000           SPOKE         1000         1.000000         100100         100100         100100         100100           REAR (Hs_3* CD x 1*1D         12         1000         1.000100         120000           REAR (Hs_4)         12         1000         100100         120000           PAPED EFTICE SUPERVISION Photometeory Photometeory Photometeory Photometeory Photometeory Photometeory Photometeory Photometeory State         25         20.00000         SD040
BRAND TOTAL       137564         Unit       Total cost of         Buys based       on Average         Costs       Costs         Primary Database File: ACTION Order: ACTBYP       Costs         Child DataBase File: PARTVEND Relation: UPPER(ACTION ACTVEND+ACTION PARTNO) Skip:       Costs
Child DataBase File: PARTMAST Relation: UPPER(LEFT(ACTION.PARTNO,MPNSIZE)) Skip:  Print Preview NUM

# 16.3.3.8 MRP Timeline

The MRP Timeline can be used to	display or print a gra	aphical representation	of the MRP requirements.

1.100	R <mark>P for Windows - Ve</mark> Tools <u>O</u> ptional <u>C</u> or		04E (User: DOUG)
MRP			
Windo	ow 🧾		Filters         Selected Sales/Work Order         ge         Reset           Part #
	Buy	PO	V Issue V Make V Sale
Action	Part Number	Descri	October /2005 November /2005 Superior State Stress
BUY	00000001	BEARI	
BUY	00000014	LABOR	4 000104 - 0001 Qty: 10
ISSUE			Issue Action Items
ISSUE	00000001	BEARI	▼000104 - 0001 Qty: 10
ISSUE	00000002	SPOKE	▼000104 - 0001 Qty: 400
ISSUE	00000003	REAR	✓000104 - 0001 Qty: 5
MAKE			Make Action Items
MAKE	00000010	WHEE	000104 - 0001 Qty: 10
MAKE	00000011	REAR	000104-0001 Qty:5
SALE			Sale Action Items
SALE	00000011	REAR	◆ 0 <del>00104 -</del> 0001 Qty: 5 ▼
Sched: Re	cord No. 9		

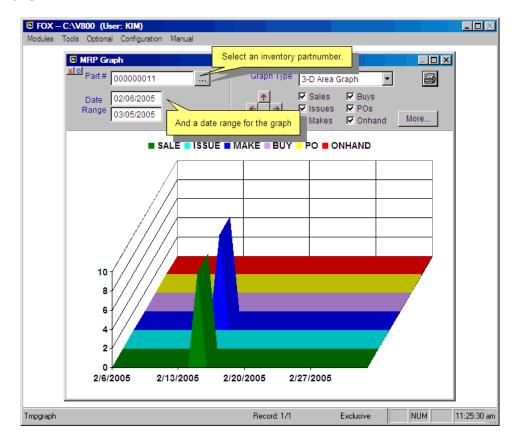
The MRP Timeline can display All actions, or just Buys, open Purchase Orders (PO), Issues, Makes, or Sales. Actions can be further filtered by specific part numbers, sales or work order numbers, and specific date ranges.

# 16.3.3.9 MRP Item Graph

Choosing Item Graph from the menu will present a graph similar to the one show below.

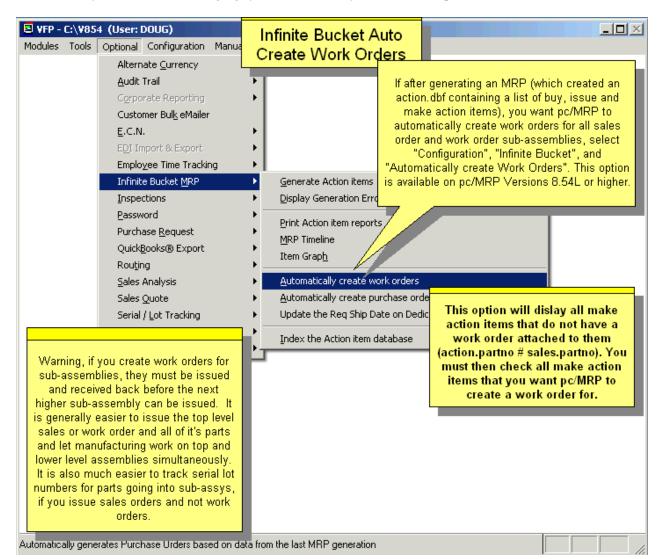
FOX – C:\V800 (User: KIM)	_ 🗆 🛛
Modules Tools Optional Configuration Manual	
C P R LAR Y BRAND	
Choose 3-D Area graph or a Line grap	
MRP Gr	Select the action items
X Part# Gra	ph Type 3-D Area Graph to graph.
	Sales V Buys
Date 01/06/2005 Range 04/05/2005	→ V Issues V POs
04/05/2005	Makes Onhand More
	Selecting More allows
MRP Graph Settings	you to set the Graph
x	Settings.
Onhand Qty represents	Initial Date Range
C Beginning Daily Balance	in Months
© Ending Daily Balance	3 💌
Refactor the Onhand Qty plot when catagor	ies are Added\Removed
	w the Quantity Gridlines
<u>0</u>	<u>Cancel</u>
	Press 'OK' to return to the graph area
	and enter a partnumber, date range,
	etc.
Action (c:\v800\action.dbf)	Record: 1/34 Record Unlock NUM 3:05:20 pm

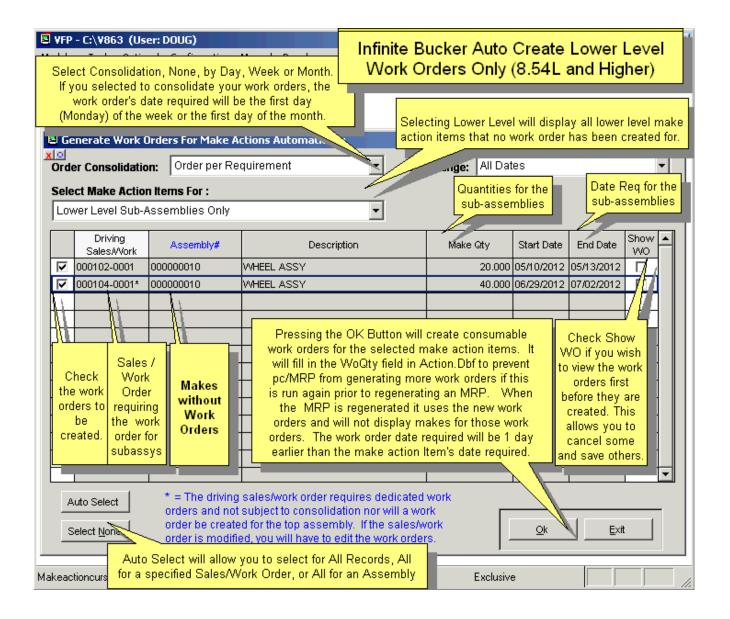
Now, as you set up your graph parameters, the graph appears. The print button in the upper right corner allows printing of the graph and / or data.



http://www.pcmrp.com/mrp101/mrpmenuautocreatewos.htm

Please note that you are 'micro-managing' your MRP when you select this option.





	Bucker Auto Create To Orders Only 8.63D and	
		Only display makes that must be started on or
🗵 Generate Work Orders For Make A	rtions Automatically	before a specified date.
Order Consolidation: Order per Rea		e Range: Start on or Before a Given Date
Select Make Action Items For :		Date: 12/08/2012
Top Level Assemblies Only		
Driving Sales/Work Assembly#	Description	Make Qty Start Date End Date WO
000101-0001 000000010	WHEEL ASSY	10.000 05/05/2012 05/08/2012
		10.000 05/13/2012 05/18/2012
		ing Top Level will all top level make
Note: pc/MRP does not offer to make a work order for the top	action	tems that no work
level assy on sales order 104 a sales order 104 requires	for	as been created (action partno
dedicated work orders	on pc	partno). Available /MRP Version's
	8.63	3D and higher.
the driving	sales/work order requires dedicated	l work
orders and not	subject to consolidation nor will a wo d for the top assembly. If the sales/v	ork
Select None I	ed, you will have to edit the work orde	
Makeactioncursor	Record: 1/2	Exclusive
		EXCLUSIVE
		Exclusive
	icket Auto Create Work ver Level Assemblies 8.	Orders for Upper
Modules Tools Optic Infinite Bu	ver Level Assemblies 8.	Orders for Upper
Modules Tools Optic Modules Tools Optic and Low Generate Work Orders For Make A	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic Infinite Bu	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic Carl Consolidation: Carl Cons	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic Generate Work Orders For Make Av Corder Consolidation: Order per Ref Select Make Action Items For : All Assemblies	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic Generate Work Orders For Make Ar Corder Consolidation: Order per Rev Select Make Action Items For : All Assemblies Driving Sales/Work Assembly#	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic Generate Work Orders For Make Adv Order Consolidation: Order per Rev Select Make Action Items For : All Assemblies Driving Assembly	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Voor0010       000102-0001         Voor0010       000000010         Voor0010       000000010	Ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Sales/Work       Assembly#         Image: Optic O	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Voor0010       000102-0001         Voor0010       000000010         Voor0010       000000010	Ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Optic Opti	Ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving Sales/Work       Assembly#         Image: Optic	ver Level Assemblies 8.	Orders for Upper         63D and Higher         weight         selecting All Assemblies will display all make on items that no work order has been created for rction.partno # sales.partno). This is the only ection that will create work orders for Mln Qtys         Date:       12/08/2012         Make Qty       Start Date       End Date       Showy WO         20.000       05/10/2012       05/13/2012       1         10.000       05/13/2012       05/08/2012       1         10.000       05/13/2012       05/08/2012       1         10.000       05/13/2012       05/08/2012       1         10.000       05/13/2012       05/18/2012       1
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving Sales/Work       Order per Ref         Driving Sales/Work       Assembly#         Image: Optic Op	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Optic Op	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving Sales/Work       Assembly#         Image: Optic	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Driving       Assembly#         Image: Select Make Action Items For :       All Assemblies         Image: Select Make Action Items For :       All Assemblies         Image: Select Make Action Items For :       All Assemblies         Image: Select Make Action Items For :       All Assemblies         Image: Select Make Action Items For :       All Assemblies         Image: Select Make Action Items For :       All Assemblies         Image: Select Make for a sub-assy of sales order       Sales order         Image: Select Make for a sub-assy of sales order       Sales order         Image: Select Make for a sub-assy of sales order       Sales order         Image: Select Make for a sales       Sales order         Image: Select Make for a sales       Sales order         Image: Select Make for a sales       Sales order         Image: Select Make for a sales <td>ver Level Assemblies 8.</td> <td>Orders for Upper 63D and Higher</td>	ver Level Assemblies 8.	Orders for Upper 63D and Higher
Modules Tools Optic       Infinite Buand Low         Image: Select Make Action Items For :       All Assemblies         Select Make Action Items For :       All Assemblies         Driving Sales/Work       Assembly#         Image: Optic O	ver Level Assemblies 8.	Orders for Upper 63D and Higher

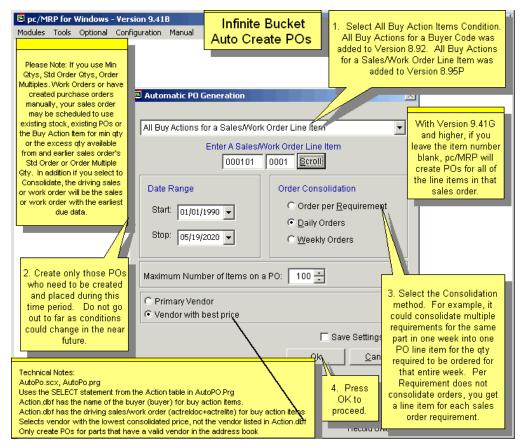
E VFP - C:\V863 (User: DOUG)       Infinite         Modules Tools Optional Configur       Infinite         □ □ □ □ □ □ □       □ □ □	Bucket Auto Create Work Orders		- U ×
Work Order (Edit Mode - Single Item)         SOAVO #       000106         Change #       0         Order Date       04/08/2012         Customer       Billing / Shipping	If you checked the Show Work Orders Checkbox, the work orders will be displayed as shown.	Document Currency BASE CURRENCY  Accounting Info	Eack Next
Customer Address Lookup	Account #		Items/Notes
Street City State / Zip Country Country Phone # e-Mail	Credit Card [None Customer PO# Didation, 1 work # AUTOW order would be pry	sales order date selected consoli would be due the t	e required. If we idate by week, it first day (Monday) If we selected fonth, it would be
ttem Part Number Rev Description	Part Lookup Mode	quire 1012 Berial t	Einished
Customer Address	order, Pr	ress the Cancel Button	

Modules Tools Optional Configur	et Auto Create Orders		
Work Order (Edit Mode - Single Item)			×
Order Date 04/08/2012 dedicated w sales orde		ASE CURRENCY	<u>B</u> ack Next
Require Dedicated Work Orders Dedicated to SOWO # 000104 Dedicated to item # 0001		Issue Subs Only	Items/Notes
,	Date Shipped 11		Add Item Clone
Web Order Number	Reference No. 1		Brea <u>k</u> down
Sales Site	Reference No. 2 Reference No. 3		Delete
			<u>O</u> ptions
Item         Part Number         Rev         Description           000v00         000000010         WHEEL ASSY         WHEEL ASSY           Quantity         Unit         Sale Price         Tax % Freight	Part Lookup Model Nun     Disc % Date Require		Logbook Create Par <u>t</u>
40.000 EA 0.000000 0.000 Comments	0.00 0.00 06/29/2012 Division Complete	Serial Number	Create Add <u>r</u> ess
***Make Action Start and Ending Dates*** Make Qty Driving S0/W0 S. Date E. Date 40.000 000104-0001 06/29/12 07/02/1		Location	<u>E</u> inished <u>C</u> ancel
Partmast (c:\v863\partmast.dbf)	Record: 1/11	Record Unlocked	

Modules Tools		nfigur	ite Bucket Auto Work Orders			
Print Previe PAGENO . 04/08/2012 09	ew - WOLOG.F 1 5-29-30 DM	RX Print Prev	iew ⓑ ▶ ▶   100%	× ◆ ♥ €		_8×
USER: DOUG	5.25.00 IA			CREATED	WORK OR	DER REPC
Wolog.FRX Automatic	Work Orde:	r Generation	for Make Action:	s, Consolidated	by Order pe	er Requiremen
WO# ITEM#	DATE REQUIRE	PART NUMBER	DE SCRIPT	:	QTY REQUIRED	DRIVING MAKE
000105 0000	06/29/12	000000010	WHEEL ASSY		40.000	***Make Act: Make Qty 40.000
000106 0000	05/07/12	000000010	WHEEL ASSY		10.000	***Make Act: Make Qty 10.000
000107 0000	05/11/12	000000010	WHEEL ASSY		20.000	***Make Act: Make Qty 20.000
000108 0000	05/17/12	000000011	REAR WHEEL ASSY		10.000	***Make Act: Make Oty 10.000
ending date it will aut In addition then the co	e. If the w comatically : h, if the us phsolidated ;	ork order's date move up to the p er selected the work order's dat	lay earlier than the e require lands on Sa previous week's Frida weekly or monthly or te require will be Ma work orders, respect	aturday or Sunday, ay. nnsolidation option nnday of the week	pc/MRP Created Report. Y	will display a Work Order ou should now
	egenerate ac ted work ord		MRP to take into the	consideration of t	he include t	e your MRP to he new work ders.
Salestmp			Record:	EOF/4 Exclu	sive	
VFP - C:\V86 Modules Tools		nfigur	ite Bucket Auto Work Orders			<b>_</b> □×
Generate		For Make Actions		Date Pange: All	Dates	×

Order Consolidatio Select Make Actior Lower Level Sub-A	ttems For :	juirement Dat	e Range: All Dat	es		•	-
Driving Sales/Work	Assembly#	Description	Make Qty	Start Date	End Date	Show WO	-
Auto Select		Re-running Auto Cre regenerating an MRF Create Work Orders new makes unless r been e	⊃ and re-running s will not display	Auto any			T

#### **16.3.5 Automatically Create POs**



If the purchase buy report looks good, selecting "Automatically Create Purchase Orders" will automatically generate the POs required to fill the buy requirements. Users can select a date range for generating POs. Selecting **Order per Requirement** will generate a PO for every buy action item generated. Selecting "**Daily Orders**" will consolidate all POs for the same part number required for the same day into one PO line item. Selecting "**Weekly Orders**" will consolidate all POs for the same part number required for the week into one PO line item.

Selecting "**Set Process Defaults**" will allow you to set the defaults for the above screen. When the "**Create POs**" function generates a PO, it puts a Y in the PO\_MAKE field for that BUY action item in the action data base file. This allows you to use the date range function without worrying about creating duplicate POs. The function that automatically created purchase orders is limited to 100 line items. pc/MRP will create multiple purchase orders if the limit of 100 limit is exceeded.

The user has to have Edit rights to the Purchase module to be able to "Automatically Create Purchase Orders".

Automatically create Purchase Orders" should only be run if:

You have "Generated Action Items" and do not plan to create work orders, OR;

You have "Generated Action Items", created work orders automatically or manually, and then "Generated Action Items" again to take into account the new work orders.

pc/MRP is only able to automatically create purchase orders for parts that have at least one associated vendor listed. The user will be able to print a list of these buy requirements; these POs will have to be entered manually.

pc/MRP will insert the vendor's related document number field into the PO for that vendor. Buyer can be the current user login, or the buyer for the part, set by Configuration, **Option 25**. (**Note:** In versions **9.04** and lower buyer was always the buyer for the part.)

pc/MRP will allow you to select VENDOR 1 or the vendor with the BEST PRICE for the quantity ordered. This option is NOT available for users having only 'View' options for the MRP module.

# 16.3.6 MRP Calendar

E FOX Ct/V923 (User: DOUG) Modules Tools Optional Configuration Manual De Alternate <u>C</u> urrency <u>A</u> udit Trail Corporate Reporting Customer Bulk eMailer <u>E</u> ,C.N. EDI Import & Export Employee Time Tracking	Infinite Bucket Weekend and Holiday Calendar Version 9.23B and Higher	
Infinite Bucket <u>M</u> RP	Generate Action items Display Generation Errors	
Parsword F Purchase Request Quick@ooks@ Export Routing F Sales Analysis Sales Quote	Print Action item reports MRP Timeline Item Graph Automatically create Work Orders Automatically create Purchase Orders	
Serial / Lot Tracking	Update the Req Ship Date on Dedicated Work Orders Index the Action item database	
	MRP <u>C</u> alendar	<u>E</u> dit Reports
pc/MRP inserts up to x years of dates into your 2 years when you install your demo copy of pc/l 2 years when you update from 9.22 or lower to 1 year when you insert a new support activation	MRP. 9.23 or higher. code number.	Index
Without a current Calendar, pc/MRP will defa method and auto adjust dates that fall on t		on, MRP

p/MRP's Calendar allows users to schedule weekends and holidays as days off . The Infinite Bucket Program will then back off those days when creating your schedule.

pc/MRP for Windows - Version 9.23 Modules Tools Optional Configuration	Infinite Bucket Weekend and Holiday Calendar Versions 9.23B and Higher	MRP2Gen_AdjDate()
11/17/2018         Saturday           11/18/2018         Sunday           11/19/2018         Monday           11/120/2018         Tuesday           11/20/2018         Tuesday           11/22/2018         Thanksgiving           11/22/2018         Thanksgiving           11/22/2018         Thanksgiving           11/22/2018         Thanksgiving           11/22/2018         Saturday           11/25/2018         Sunday           11/26/2018         Monday           11/27/2018         Tuesday           11/29/2018         Wednesday           11/29/2018         Tuesday           11/21/2019         Tuesday           11/21/2019         Tuesday	ription Day Off rer the name our holidays	MRP2Gen_AdjDate() D0 WHILE T. SELECT Calendar SET ORDER TO DATE SEK MDATE IF FOUNDO D0 CASE CASE DAYOFF MDATE = MDATE-1 OTHERWISE BNT ENDCASE ELSE D0 CASE & &Original Code CASE DOW(MDATE) = 1 & SUNDAY MDATE = MDATE-1 CASE DOW(MDATE) = 7 & SATURDAY MDATE = MDATE-1 CASE DOW(MDATE) = 7 & SATURDAY MDATE = MDATE-1 OTHERWISE ENDT ENDCASE ENDC ENDT ENDCO ALL If ture Saturdays as
Show only Days Off	Leave	Unchanged v Unchanged

#### **16.3.7** Troubleshooting

#### 16.3.7.1 Infinite Bucket reports appear to be wrong

If the quantities in the Infinite Bucket reports appear to be wrong, please do the following:

A good plan can only be based on good data. If pc/MRP reported any errors/problems in your data after the MRP was generated, correct the errors and re-generate the MRP. These errors could be missing due dates, non-existing parts, etc. For details see Section 16.3.2 above. To view the errors found select **Display Generation Errors** from the Infinite Bucket menu.

If the quantities still seem wrong, select one of the part numbers involved and run the report below. Include all action items and sort by ending date. This report will clarify where the quantities are coming from. Repeat these steps for any other part number you wish to verify.

All for a Part Number	-	MRP Date: 02/25/2016
Part N 00000	Sort by Ending Date	
Match Type: © Exact	C Partial C Contains	Send Report to
Include	Consoli <u>d</u> ate	Display
Initial Onhand	© Dail <u>⊻</u> © <u>W</u> eekly	Report Type
Purchase Orders	C Mo <u>n</u> thly	Standard C Custom
BUY Actions	C Quarterly	standard Custom
✓ ISSUE Actions	Date Range	CUSMRPSLIDE.FRX 🔻
SALE Actions	All Dates	
Make Actions	C Specified Date	Show Review Item Only
LABOR Actions	From: / / To: / /	Ok Cancel

_	Tools Opt Preview - C		-		nual Printe	er						_ 🗆 ×
DATE: 02 PAGE: 1	/25/2016 04:42	;33 PM			ACTI	ON ITE	M REPOR	RT	MRP	GENERA	TED: 02/2	5/2016
ALL FOR	R PART# 0000	00003, SOF	RTED BY	ENDING	DATE							
ACTION	DRIVING SALES/WO	ITEM#	PO#	ITEM #	VENDOR	Part/Assy #	DESCRIPTION	QTY	RUNNING TOTAL	date	end Date	REVIEW
EN D D ONHAND	ATE / /					000000003	REAR AXLE	0	0	11	11	
EN D D	ATE 02/25	/2016										
PO	MINQTY		000003	0001	MOU001	000000003	REAR AXLE	2	2	02/25/2016	02/25/2016	
EN D D	ATE 03/03	/2016										
BUY	MINQTY					00000003	REAR AXLE	3	5	02/25/2016	03/03/2016	
BUY	000104	0001				000000003	REAR AXLE	5	10	02/25/2016	03/03/2016	
ISSUE	000104	0001				000000003	REAR AXLE	5	5	03/03/2016	03/03/2016	
EN D D	ATE 03/18	/2016										
BUY	000105	0001				000000003	REAR AXLE	1	6	03/11/2016	03/18/2016	
SALE	000105	0001				000000003	REAR AXLE	1	5	03/18/2016	03/18/2016	
EN D D	ATE 03/31	/2016										
BUY	000102	0001				000000003	REAR AXLE	10	15	03/24/2016	03/31/2016	
ISSUE	000102	0001				000000003	REAR AXLE	10			03/31/2016	

#### 16.3.7.2 Error message: Allowed DO nesting level exceeded

While generating an Infinite Bucket MRP, you get the error message: **Allowed DO nesting level exceeded**. This means that you have a recursive BOM structure (a BOM that is calling itself). See Section 17.3.17.

#### 16.3.7.3 A sales or work order does not display any action items

If a sales or work order does not display any action items (All Action Items for a Sales/Work Order)

- The sales/work order contains a preliminary BOM and **Include Preliminary BOMs** was not checked when the MRP was generated.
- The sales/work order was complete when the MRP was generated.

# 16.3.7.4 The action item report shows multiple BUILD and SALE items for an assembly for the same SO/WO number and line item.

Check the inventory module for duplicate part numbers by going to Modules, Inventory, Audit Inventory Data, and only check' Invalid Part Numbers'. <u>Do not</u> check 'Fix' at this time. Verify that for each duplicated part number, the first one is the one to keep. Then you can check the 'Fix' checkbox when you run the Audit Inventory Data again. You can now re-run the Create Action Items process again.

If the ones you wish to keep are not always the first partnumbers, please call Software Arts before you proceed!

#### 16.3.7.5 Component parts not showing any demand.

pc/MRP shows demand only for parts & assemblies for which there are work/sales orders. The demand for component parts contained solely in assemblies is indicated in the "MRP Available" field of the "Qty/Costs" tab of the Inventory Add/Edit form (negative values indicate buy actions). Run your MRP to update this number.

The component part may not show as required if its parent assembly is on hand.

Also see 16.3.6.7.

#### 16.3.7.6 The action item report does not calculate with existing work orders that are in manufacturing.

Check is the work order is marked as consumable. (See Configuration, Settings and Utilities, **Option 66**.) Check whether the work order due date is at least one day before the sales order / work order due date, that should be using it.

#### 16.3.7.7 The action item reports do not show any results, not even onhand.

If you just updated from a pc/MRP version lower than 8.95 (and did not re-generate the MRP since the update) then simply re-generate the MRP.

# **16.4 Optional Barcode Module**

#### 16.4.1 Overview

Software Arts offers an optional Barcode Builder that accommodates numerous barcode styles and options and guides the user through the successful implementation in their custom reports. Barcoding can increase efficiency and inventory control accuracy. You can print Linear, QR or Data Matrix barcodes in pc/MRP.

E pc/MRP for Windows - V File Edit View Tools Wind	ode pc/MRP Version 8.60 and Higher.
「」「」」 III · · · · · · · · · · · · · · · · ·	Select Barcode Type 3 of 9, 128, UPC, 2 of 5, 93, EAN, PostNet, etc
Barcode Symbology	Human Readable Text
Symbology 110 Code 128 Calculate the Check Digit Code 128 Character set A B	Configure       Include Human readable text       Text Font       Arial         Barcode       Include the Check Digit       Font Style       B       I       Image         Image       Include Start/Stop Characters       Font Size / Color       8.5       Image
Image Attributes	Barcode Sample Barcode Information Sample Content: Cap-1000
Resolution 300 - Height Rotation 0° Margins Ratio 1:3 -	100 100 0 cap-1000 143 Pixels Displays Barcode Information for the barcode type selected, such as acceptable characters, length, etc.
Factor 1 -	Human Readable Text
When the Barcode Module is activa Version 8.81E added Pharmacode Version 8.85 added Two Dimension	rs can insert barcodes into pc/MRP forms, labels and reports. ted, pc/MRP creates a Barfonts subdirectory. (One and Two Track), Royal Mail (UK), KIX Code (Dutch Mail). al Matrix 2D and QR Barcode fonts. Requires BarcodeLibrary.dll. nal 2DMGS1 Barcode fonts (medical industry).

## Activating and Installing Software Arts Barcode Font Option

Select Configuration, About pc/MRP. Press Ctrl-B. Enter your activation code.

The file **C39BCF.EXE** will be installed in a subdirectory named **BARFONTS**. The next time you start pc/MRP, it will automatically run this program which will install the barcode fonts on your local workstation.

#### Note C39BCF.exe is and installer and not a .dll:

If the fonts do not install, right click on the pc/MRP shortcut on your desktop and select, Run as Administrator.

If the fonts still do not install, use Windows Explorer to locate the C39BCF.exe in your pcmrpw directory. Right click on the C39BCF.exe and select "Run As Administrator".

If the fonts still do not install, right click on the C39BCF.EXE, drag it to your desktop, select copy and then right click and run as administrator.

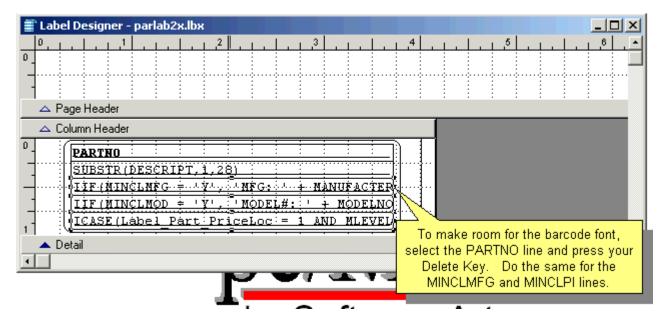
If the fonts still do not install copy the TTF fonts from a developer BARFONTS dir to the user's pcmrpw/barfonts folder or to a folder on the desktop. Then right click on each font and select Install. Then restart pc/MRP to get pc/MRP to recognize the fonts.

If you are using a terminal server, installation must take place directly on the terminal server by the Network Administrator.

#### 16.4.2 Modifying a Report or Label to Use Barcodes

To modify a report or label, use pc/MRP's report generator, Configuration, Settings & Utilities, **Option 24**. Select the form or label to modify. Select the report or label file name.

In the Report Writer, delete a few lines to make room for the new barcode object, following the illustration below. Then move the SUBSTR line all the way down.



Click on the OLE button in the Report Controls Toolbar:

🖀 Label Designer - parlab2x.lbx	
△ Page Header	
SUBSTR (DESCRIPT, 1, 28)	
1 IIF (MINCLMOD = 'Y', 'MODEL#: ' + MODELNO	orx
Detail	<b></b>
	E
by Software /	
	Click on the OLE Button

Then draw a box in the report area where the barcode image is to be displayed:

pc/MRP for Windows - Version 8.60R (User: DOUG) File Edit View Tools Window Help	
[[2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	Picture/OLE Bound Properties
Label Designer - parlab2x.lbx   0 1. Draw a box where   0 1. Draw a box where   the barcode is to be   displayed.   Page Header    Column Header    SUBSTR (DESCRIPT, 1, 28)   1   SUBSTR (DESCRIPT, 1, 28)   1   SUBSTR (DESCRIPT, 1, 28)   1   Detail   1   Page Header    Detail   1   SUBSTR (DESCRIPT, 1, 28)    SUBSTR (DESCRIPT, 1, 28)   1   SUBSTR (DESCRIPT, 1, 28)    SUBSTR (DESCRIPT, 1, 28)  SUBSTR (DESCRIPT, 1, 28)  SUBSTR (DESCRIPT, 1, 28)  SUBSTR (DESCRIPT, 1, 28)	General       Print when       Protect       out         Control source type       2. Select Expression or variable name.         Image file name       General field name         General field name          General field name          Control source:          If source and frame are different sizes:          Clip contents       3. Click on the Button         Center general field horizontally in fram          Object position       Image field         Image field          Size and position in layout       Fix relative to to top of band         From page top:       Height:         1.010 in       0.468 in         From left:       Width:         0.385 in       1.947 in
	OK Cancel Help

You will be presented with "Picture/OLE Bound Properties" dialog. Select "Expression or variable name" then click on the [...] button. Select Yes, render a barcode image.

📮 pc/MRP for Windows - Version 8.60R (User: DOUG)	
File Edit View Tools Window Help	
) (f = 🖺 🛠 🏶 🖨 射	Picture/OLE Bound Properties
Image: constraint of the second state of the second sta	General Print when Protection Other Control source type Timage file name General field name Expression or variable name Control source:
SUBSTR (DESCRIPT, 1, 28 IIF (MINCLMOD = 'V', 2) Detail	ected control be used to render a Barcode image?
Report Corx by Sof	Yes No Click on Yes, Render Siz a barcode image.

You will then be presented with the Barcode Builder screen to guide you through the process of selecting the options needed to display your barcode.

First select your barcode type:

Image: pc/MRP for Windows - Version 8.60R (User: Difference of the second se	Select Barcode Type. Choices also include EAN-8, EAN-13, ITF-14, EAN-128, UPS-E, UPC-A, Codabar,	25
Barcode Barcode Symbology	MSI/Plessey, Telepan, and PostNet	Readable Te
Symbology 110 Code 128	Include Human readable text	Text Font
110 Code 128         ▲           120 Code 39         ▲           Code 11121 Code 39 Extended         ▲           122 Code 93         ▲	☑ Include the Check Digit ☑ Include Start/Stop Characters	Font Style
123 Code 93 Extended 131 Standard 2 of 5	Barcode Sample Barcode Info	ormation
Image Type JPG	Sample Content: Sample Barcode	209 Pixel
Resolution 300 🔭 Height 100 🔭		

If appropriate, select the character set required:

E pc/MRP for Windows - Version 8.60R File Edit View Tools Window Help	User: DOUG)
fe   🕮 , 🖿   🧈 🚳 💾 👪	Picture/OLE Bound Properties
Barcode	
Barcode Symbology	Select the character set Human Readable Text
Symbology 110 Code 128	you wish to use. adable text Text Font Arial
Calculate the Check Digit	Molude the Check Digit Font Style B I E 🛓
Code 128 Character set A B C	Include Start/Stop Characters Font Size / Color 8.5 🗮
Image Attributes	Barcode Sample Barcode Information
Image Type JPG  Resolution 300  Height 10 Rotation 0°  Margins Ratio 1:3  Factor 1  Barcode Color Background Color	VALID CHARACTERS: Nearly the complete ASCII character set including control characters LENGTH: Variable CHECK DIGIT: Automatically calculated DESCRIPTION: Code 128 is a very effective, high-density symbology which permits the encoding of alphanumeric data. The symbology includes a checksum digit for verification, and the bar code may also be verified character-by-character verifying the parity of each data byte. This symbology has been widely implemented in many applications where a relatively large amount of data must be encoded in a relatively small amount of space. It's specific structure also allows numeric data to be encoded at, effectively, double-density. Set A: Includes upper case letters and control characters. Set B: Includes upper and lower case letters. Set C: Specially optimized for numbers.

If your requirement specifies the barcode should also display human readable text, check the appropriate box:

Epc/MRP for Windows - Version 8.60R (User: I File Edit View Tools Window Help File 照。	Check Include Human readable text if you do not display the part number else where.	operties X
Barcode Symbology	н	iman Readable Text
Symbology 110 Code 128	include Human readable text	Text Font Arial
Calculate the Check Digit	🔽 Include the Check Digit	Font Style <b>B</b> <i>I</i> 들 🛓
Select B Character set A B C	Include Start/Stop Characte	rs Font Size / Color 8.5 📑 🔤 🧕
Type Image Attributes	Barcode Sample Barcoo	de Information
Image Type JPG 👻	Sample Content: cap-1000	
Resolution 300 Height 100 Rotation 0° Height 100 Rotation 0° The Resolution should be set close factor 1 Rotation 1° Rotation 1° Rotation Practice 1° Rotation 1°	cap-1000	Readable Text
resolution to 200 to match his Zebra Printer's Resolution.		Send Control Code to the Designer

After the appropriate settings for your particular barcode application have been set, click the button at the bottom of the Barcode Builder screen ("Send Control Code..."). This will close the Barcode Builder application and return you to the Report Writer.

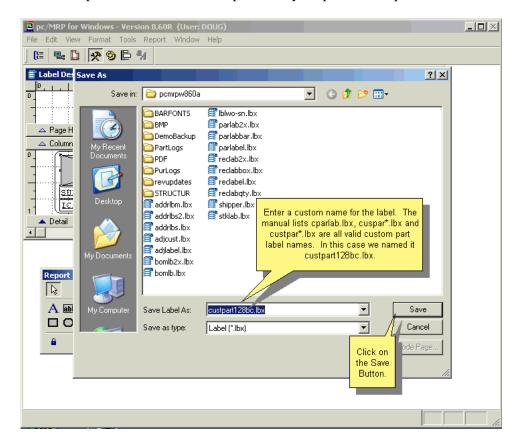
The "Control source" of the "Picture/OLE Bound Properties" dialog should now be filled with values set by the Barcode Builder:

Label Designer - custpa	rt128bc.lbx	
	Picture/OLE Bound Properties     Seneral Print when Protection Other	
Page Header     Column Header     SUBSTR (ÞESCR)     ICASE (Label)	Control source type C Image file r C General fiel C Expression Control source as shown on the next slide. Control source: Barcode("'', [rumageHeight=41])	
1 Detail	If source and frame are different sizes: Clip contents	
Report Cor X A m + O M A	Center general field horizontally in frame Object position ○ Eloat ○ Fix relative to top of band ○ Fix relative to bottom of band Size and position in layout From page top: Height: 0.989 in = 0.479 in = From left: Width: 0.385 in = 1.906 in =	
	OK Cancel Help	

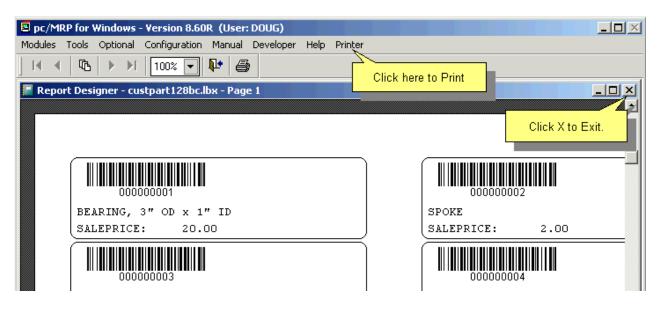
Replace the double-quotes in the "Control source" textbox with the name of the field that holds the data that is to be displayed as a barcode. This must to be a string value, e.g. TrimStr(Cost,2).

Label Designer - custpa	rt128bc.lbx    X      2    3      4    5       Picture/OLE Bound Properties       General     Print when       Protection     Other
Page Header     Column Header	Control source type C Image file name C General field name • Expression or variable C Control source type In this case we replaced the quotes with AllTrim(PartNo).
SUBSTR (DESCR: I CASE (Label)	Control source: Barcode(AllTrim(PartNo), [nImageHeight=41]) If source and frame are different sizes: Clip contents
	Center general field horizontally in frame Object position C Eloat C Fix relative to top of band C Fix relative to bottom of band Size and position in layout From page top: 0.989 in 0.479 in From left: 0.385 in C Click on the OK Button
	OK Cancel Help

In the "If source and frame are different sizes" checkbox, select "Scale contents, retain shape". Then click the [OK] button to close the property sheet. Click on File\Save As... to save your modified report. Refer to the Manual to determine the expected custom file name prefix for your particular report/label file.



Close the Report Writer application. Run your particular report to view your work:



**Note**: If your barcode scanner fails to read the barcode, possible solutions are: the printer resolution doesn't match the label's resolution, or the barcode reader is set to read a minimum number of characters.

#### **QR Barcode Fonts**

pc/MRP offers the option to print out QR Barcode Fonts. These contain a string or URL. This function requires the file named **BARCODELIBRARY.DLL**. In the example below, we entered BarcodeQR(partno) into the Control Source field.

Dec/MRP for Windows - Version 9.00           File         Edit         View         Tools         Window         Help           I [E]         III:	Bar Code - 2 Dimensional QR Barcodes	
Image: Second state sta	Picture/OLE Bound Properties     General Print when Protection Other     Control source type Expression     O Image file name     General field name	Image: state of the state
	Opt: 2	NUM

Downloading and running an app such as QR Droid would allow your mobile phone to scan a QR barcode and display the embedded text. A computer with a wedge type QR barcode reader could download and process the embedded text.

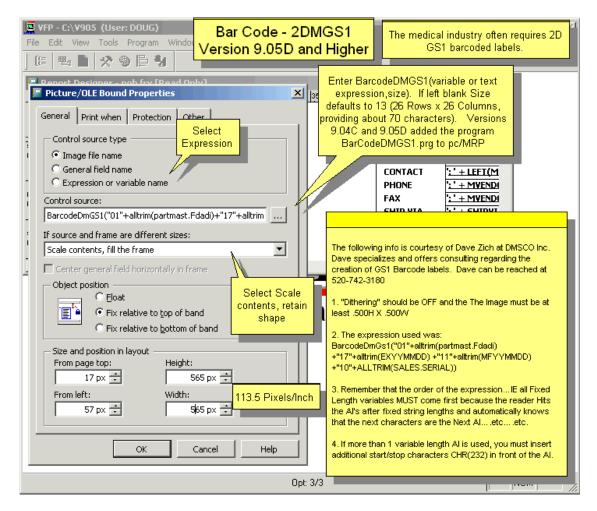
pc/MRP for Windows - Version 9.00Q Modules Tools Optional Configuration I     Print Print Preview	Bar Code - 2 Di Matrix, QR B			
Software Arts 6830 Via Del Oro Suite 109 San Jose, CA 95119 PHONE: 408-226-7321 FAX: BBC MANUFACTURING COMP. ATTN: JOE SMITH			PAGE NO. : 1 PO REQUEST : PO DATE : 0 CON TACT : PHONE : FAX : SHIP VIA : FOB : PLACED BY : K DEBIT/CHRG :	▲ 000001
111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA			ACCOUNT # : B REL DOC # : DoD RATING	BC001
ITEM PARTY Your 2D barcoo will be displaye	d	DATE REQ QT	TY UNIT	PRICE
	BEARING SS	text. A compu barcode reader o	v your moblile pl and display the uter with a wedg	hone to scan embedded e type QR
Tempiny (c:\docume~1\doug\locals~1\temp\56681531.dbf) Record: בעריז באטועזע באטועזיין אטעין און אטעין און אין א				

#### **Data Matrix Barcode Fonts**

pc/MRP offers the option to print out QR Barcode Fonts. These contain a string or URL. In the example below, we entered BarcodeDM(partno+ " " +descript) into the Control Source field.

pc/MRP for Windows - Version 9.04A File Edit View Tools Window Help     E      E      E      E      E      E      E      E      E      E      E	Bar Code - 2 Dimensional DataMatrix Barcodes	
0.1	General Print when Protection Other Control source type Expression	Enter BarcodeDM(variable or text expression,size). If left blank Size defaults to 13 (26 Rows x 26 Columns, providing about 70 characters).
pc/MRP will install the BarCodeDM font library when you activate pc/MRP's Barcode Module. And if necessary, when print a barcode font (provided you have purchased pc/MRP's Barcode Module). The code is contained in	Expression or variable name Control source: BarcodeDM(partno+** +descript,24) If source and frame are different sizes: Scale contents, retain shape Center general field horizontally in frame	REQUESTOR I PO REQUEST I PLACED BY I ACCOUNT # I DEBIT/CHRG I DoD RATING I
BarCodeDM.prg. If the library fails to install, right click and run pc/MRP as the Admin and try again. You could also use Windows Explorer and double click on the \barfonts\C39BCF.EXE file in pc/MRP folder.	Object position Discrete general need for Excitating in Hame Discrete general need for Excitating in Hame Discr	Select Scale = contents, retain = shape =
TTEM PARTNO RE	1000 page top:         1000 page top:           394 px         52 px           From left:         Width:           27 px         52 px	PRICE
	OK Cance	
		NUM //

#### **2D GS1 Fonts**



#### 16.4.3 Scanners and Downloading Data

#### Wedge Type Barcode Wands

pc/MRP will work out of the box with any wedge type barcode reader. A wedge type barcode reader is defined as a barcode reader that inserts itself in between the computer key board and the CPU unit (i.e. the keyboard plugs into the wedge barcode reader and the wedge is plugged into the computer's keyboard connector). The computer will then read any input from either the wand or the keyboard. You could use a simple inexpensive model like the Unitech MS250 or MS180.

#### **Portable Barcode Wands**

Portable barcode wands can be used to take a physical inventory and then later download the part numbers and quantities from the portable barcode wand's docking station into pc/MRP's physical inventory program. The portable barcode wand must be programmed that it can download a comma delimited text file into the pcmrpw directory. The file must consist of part numbers and quantities separated by commas and line returns as shown below:

000000001,47.00 000000010,53.00 890000000,40.00

The Unitech HT630 comes with a built-in program. A video about how to program the HT360 to create such file can be seen at <u>http://www.youtube.com/watch?v=6sbYUrtgMcw</u> (a video posted by UnitechEurope).

#### Downloading data from a Unitech's HT630 Barcode Scanner

Unitech's HT630 (800-861-8648) comes with a program for pc/MRP built in. To take an inventory with the HT630 follow the steps listed below:

- 1. Turn on the HT630
- 2. Press and hold 'CMD'
- 3. Select Option 2 for Terminal from the Menu
- 4. Select Option 2 again for Form caching
- 5. At Item:, scan the barcoded parts or bin boxes
- 6. At Qty:, scan or enter the quantities
- 7. After you are finished, press 'Esc' to exit.
- 8. Screen clears to operating mode

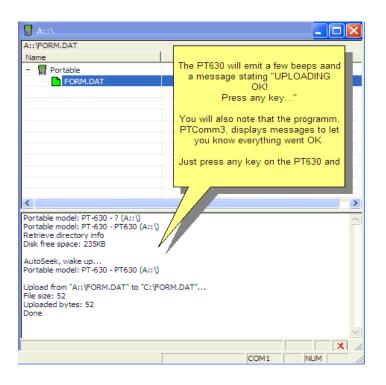
To download the physical inventory count follow the steps listed below:

- 1. Set the HT630 into its cradle attached to the PC or connect the cable directly to the serial port.
- 2. Go into Start, Programs, and run PTComm3

The following screen appears:

B PtComm3	
File Transfers View Help	
Image: C:\         Image: Name         Size           Image: Drives         Image: Name         Size           Image: Name         Size         Image: Name	FORM.DAT is the file you created on the PT630 scanner. Right-click to drag and drop the Form.DAT file to a location on the server or your computer.
System (C:)	Portable
	C' drive.
gemrp_manual on 'Asp700\E' (M:)     Ze Pdf on 'Asp700\E\Saw' (P:)	A confirmation window arrears. Just press 'OK' or change the destination location.
Transfer File Between PC	and Portable
From: A::\FORM.DA	
To: C:\	>> [-630 - ? (A::\) -630 - PT630 (A::\) info 35KB
Protocol: Multi-Point	
ок	Cancel
<	>

The program recognizes the Barcode reader and displays the Form data file with the inventory data in the reader. Left-click on the file name and drag it to the directory structure you wish to save the file in. This can be a server directory or your computer. Remember where you saved the data file. After you release the mouse button, this screen appears to show that the transfer went OK.



### Import the downloaded data

To import the data with the Physical Inventory or Cycle Count by going to Modules, Inventory, Physical Inventory. For this example, choose Full Physical Inventory.

Select the area to receive the inventory counts and click OK.

🔄 pc/M	RP for	Windows	- Version 8.32	A							
Modules	Tools	Optional	Configuration	Manual							
			Physic C Au C Pr C Ver era	lect Physic entory Cour ed Inventory te blank Ph	nts S t St counts w ysical Inve	ntory cou	rent Ir ; nt she	Select the a to enter c		/ish	
			<u>     Enter P</u>	hysical Inve	ntory cour	ts for an	Inventory	a ur air a	areas		-
			Inver	ntory Area	1 STORE	S	-				
			⊂ <u>T</u> otal th	e Area Cou	15 Area-1:	j	🔺 rep	ort			
			C Invento	n/ Movemel	16 Area-1 17 Area-1						
				the Onhar			it the	e team count	ts		
				al Inventory	19 Area-1: 20 Area-2:	) )					

Select "Import" to get the inventory data from the data file you created. Then

- 1. Select the saved inventory data file
- 2. Choose to append or replace counts
- 3. Press 'OK'

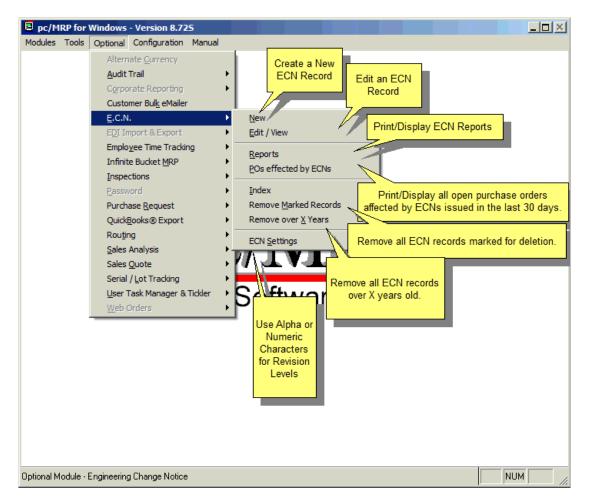
Most times, you will be replacing the previous inventory counts. A situation to "Append" would be where there are multiple storage areas for a part within a single 'STORES' area. pc/MRP V9.50

You either get the message "The importation has completed. No errors were detected.", or you get a message that tells you how many "errors were detected during the import". Print out the report and fix the errors before continuing with more counts and areas. Correct any errors and re-process individually or in the next import.

You may now continue as described in Section 6.5 for Physical Inventory.

# **16.5 Optional ECN Module**

### 16.5.1 Engineering Change Notice Module Overview



The Engineering Change Notice Module creates, edits, and prints out ECNs and ECN Reports. In addition, it will also print out ECN reports that notify purchasing of all open purchase orders that contain part numbers that are affected by ECNs issued in the last 30 days.

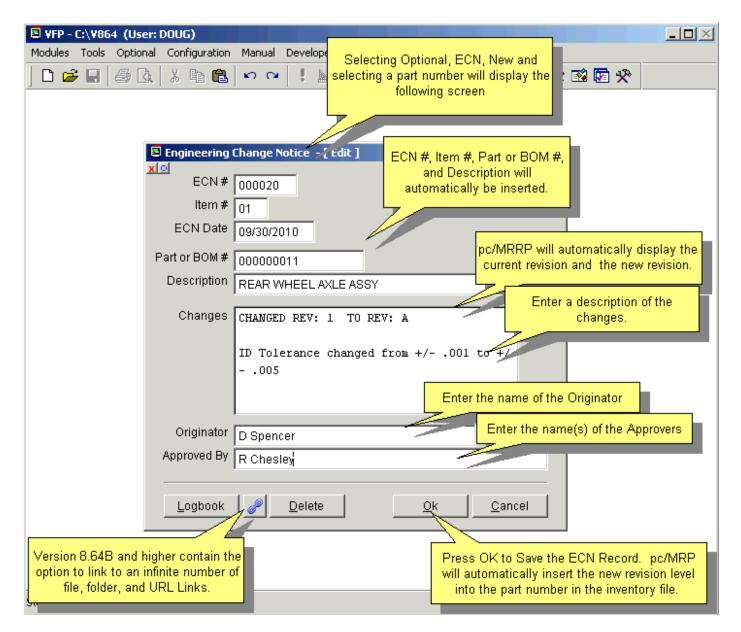
Call Software Arts (408-226-7321) to get your ECN activation code number. Then: Select Configuration Menu, Module Activation, and ECN from the menu Select activate ECN module Enter the activation code number

### 16.5.2 New (Add an Engineering Change Notice)

Selection 1 allows you to enter an Engineering Change Notice. The next available **ECN** # is then provided. Press to accept the new ECN number or enter a new ECN number.

pc/MRP will then ask: Does the part have a part number? If the part or BOM modified does have a part number and has been previously entered into inventory, enter "Yes". This will open a scroll screen allowing users to select the desired part. If the part has not been previously entered into inventory, enter "No".

If you answered No, the ECN module will allow you to enter the part into inventory.



Once users have selected the desired inventory item the ECN data entry screen shown above will appear.

- The ITEM # allows a single ECN # to be entered that effects more than one part or BOM.
- The **ECN DATE** is the date the ECN goes into effect. Today's date will be automatically entered and can be overwritten.
- The **Part#** and **DESCRIPTION** of the part is entered from inventory automatically.
- Enter a description of the changes that were made to this part or BOM number into the CHANGES field.
- The **ORIGINATOR** field contains the name of the originator of the ECN.
- The **APPROVED BY** field contains the name(s) of the people who approved the ECN.

Once you have finished entering the ECN data for the effected part or BOM number, press the "OK" button to save the record. This will update the revision field for that part number in the inventory module. pc/MRP will ask, "Do another line item (Y/N)?"Answer Yes, if another part or BOM number is affected by this ECN number.

## 16.5.3 Edit/View (Delete, Undelete) an Engineering Change Notice

This option allows users to scroll, edit, delete, undelete or run queries against ECN records.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an Indexed Search select the Indexed Search tab and the desired Sort Order, ECN Number, Part Number and Date. Enter the applicable data in the Begin Scrolling At: field. Select the desired Action, View or Edit. Press Search.

pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press Ok to proceed to the edit screen for that record.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the ECN table. For further details see Chapter 15.14.

Once the record has been marked for deletion you must set an administrative lockout, and then select ECN, Remove Marked Records. Deleting an ECN will not reverse its effect.

### 16.5.4 Reports (Print/Display Engineering Change Notices)

Allows you to print out or display Engineering Change Notices. Your options are as follows:

- All engineering change notices
- A specified engineering change notice
- All engineering change notices for a specified part/BOM number
- All engineering change notices for a specified top assembly number
- All engineering change notices for a specified originator

Any of the above may be sorted by: ECN Number, Part Number, Date.

Any of the above may be listed for a specified date range, or for all records.

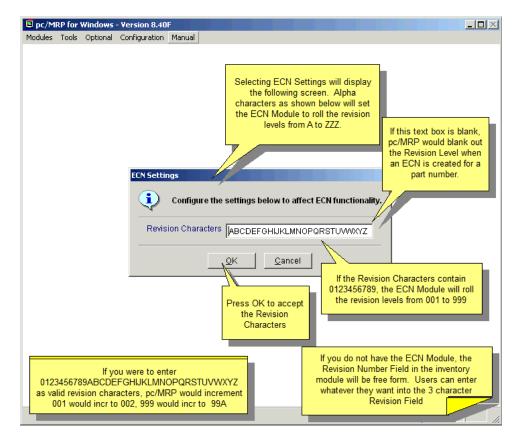
pc/MRP for Windows - Version 8.40F	
Modules T Selecting Optional, ECN, and Reports will display the ECN Report Screen as shown below. I. Select the Report Crit	A Selectine Son L
All ECNS All ECNS A specified ECN Number All for a Part/BOM Number All for an Originator All for a Top Assembly Number 2. Select a Date Range © All Records C Entered in a Date fange	Sort by ECN Number Send Report to Display Report Type Standard C Custom
From: To: /// 05/28/2009	Save Settings

Sample report:

4odules To	ools Optional C	onfiguration	i Manual Prin	nter								
Print Pro	eview - ECN.FRX		Print F	Preview		75%	•	ð				. 8
	rts Orted by ECH M	UHBER		E	CN I	Repor	t					ліся 03/21
		MBER ECN DATE	CHARGES	E	CN I	Repor		GINATO	a	APPROVED	BY	

The POs affected by ECNs report lists all ECN records in the past 30 days, which list a change in a part that has an open PO.

### 16.5.5 ECN Settings



### 16.5.6 Purchase Orders Affected By ECNs

This feature will allow you to print/display all open purchase orders affected by ECNs issued in the last 30 days.

### 16.5.7 Index (see 15.14.3)

### 16.5.8 Remove Marked Records (see 15.14.4)

### 16.5.9 Remove Over X Years (see 15.14.5)

## **16.6 Optional Sales Analysis Module**

#### 16.6.1 Overview

Sales Analysis will offer the following five functions:

The Book to Bill Reports can analyze sales by territory and customer. Bookings and Billings for each customer and territory are reported for the month specified complete with a YTD % of goal figure.

The Consolidated BOM Reports will consolidate parts within various levels of a BOM and print each part number once with its consolidated quantity. Multiple BOMs can be consolidated and printed out in spreadsheet fashion to analyze the purchasing requirements and costs for each part required to fabricate the multiple BOMs analyzed.

The Cost of Sales Report will generate a report sorted on Part number and subtotaled on product codes. The report can be displayed, sent to a printer or to a disk as an ASCII or DBF file. You can select the starting date and ending dates to be analyzed.

The Estimated Usage and Min Oty Reports will calculate, print out and replace the estimated usage and minimum quantities based on invoice history. Safety stock can be set by percentage or by number of weeks of safety stock you wish to maintain. The reports provide an option to print out all trace calculations allowing the user to track the basis for all stocking levels. Individual parts whose minimum quantity level should not be changed regardless of estimated usage could be maintained by entering "SAV" into that part's CATINDEX field.

The Sales Trend Reports can be used to spot sales trends. Sales data can be subtotaled in up to four user defined time periods. In addition, the report can be subtotaled by part number, vendor, or customer. Sorting options include by Part Number, Vendor, \$ amount, or Quantity.

#### **Activating the Sales Analysis Module**

To activate the Sales Analysis module, call Software Arts (408-226-7321) to get your Sales Analysis activation code number.

#### Inventory Fields Used by the Sales Analysis Module

**MinOty**(mingty) (5 per week x 2 weeks = 10). Set by hand or auto set with Sales Analysis. Min weeks of inventory will allow entry of the desired number of weeks of safety stock to be used when recalculating the MinQty. Weeks Onhand will be updated at the end of the first pass. The new value will be based on the inventory available divided by the ave weekly usage. The calculation settings screen has a "Consider components already consumed by built assemblies to be available" check box that will "deconstruct" all inventories assys into their components for the purpose of calculating the weeks onhand.

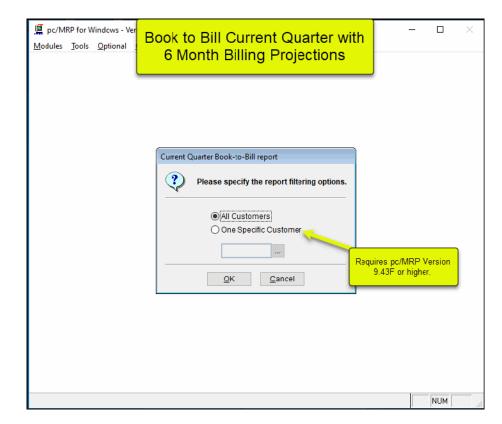
WeeksOnhand = MinMax(WeeksOfInv/Usage,0,999)

#### 16.6.2 Book to Bill

The Book to Bill report can be generated to analyze sales by territory and customer. The report can include all customers, customers with sales, or customers with no sales. The report can be displayed, sent to a printer or to a disk as an ASCII, DBF, PDF or HTML file, or sent to Excel. The report can be generated for any month and year desired. Bookings and Billings for the month selected are sorted and subtotaled by territory and customer including the YTD % of goal. The report uses the quota field in pc/MRP's Address Book to determine the % of goal.

VFP - C:\V881 (User: DOUG) Modules Tools Optional Configuration	Book to Bill Report	
		Select the Book to Bill Report
xle	<ul> <li>Select the Book to Bill Report</li> </ul>	you wish to display and or print.
-	Select the book to bin Report	1
	• By Customer for a Specified Month and	IYear
	C Current Quarter with 6 Month Billing Pro	pjections
-	<u>OK</u> ancel	
VFP - C:\V881 (User: DOUG)		
Modules Tools Optional Configuration	Book to Bill By Custom	er
Print Preview - SANALC.FRX		Print Preview
1 01:44:34 PM	SALES ANALYSIS BY CUSTOMER	IA A 🖪 🕨 H 75% 🔽 👫 🎒
01/2013 to 10/08/2013 Year 01/01/	2013 to 10/08/2013" <b>1 YEAR</b> BOOKINGS <b>BOOKINGS</b> BOAL FOR MONIN <b>YEAR TO DAT</b>	BILLINGS BILLINGS & GOAL E FOR MONTH YEAR TO DATE & GOAL
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Modules Tools Optional Configuration	000		y Custome	·		
Print Preview - SANALC.FRX		_	_			_   <b> </b>   ×
			Pr	int Preview		×
1 01:44:34 PM 01/2013 to 10/08/2013 Year 01/01/2		IALYSIS BY 08/2013"	CUSTOME	• •   %	▶ ▶I 75%	• 🗣 🎒
CUSTONER	1 YEAR GOAL	BOOKINGS FOR MONIH	BOORINGS YEAR TO DATE	BILLINGS FOR MONTH	BILLINGS YEAR TO DATE	€ GOAL
ALLIED ELECTRONICS AVUET ELECTRONICS	0.00 0.00	D.00 D.00	0.00 0.00	0.00 0.00	0.DD 0.DD	0.DD0 0.DD0
CANA MANUFACTURING CORPORATION DIGI-KEY BLECTRONICS	0.00 0.00	D.00 D.00	0.00 a.oo	0.00 0.00	0.DD 0.DD	0.DD0 0.DD0
NOUSER ELECTRONICS TTI BLECTRONICS	0.00 0.00	D.00 D.00	0.00 0.00	0.00 0.00	0.DD 0.DD	0.DD0 0.DD0
L ** Ruck Mths	0.00	0.00	0.00	0.00	0.00	
BBC NANDFACTUREING COMPARY CA SIATE BOA DEEGON STATE Yearly Quota from EQUALIZATION AddrBook (yr quota)	0.00 0.00 0.00	D.00 D.00 D.00		e % GOAL is : lumn BAMT4/		0.000 0.000 0.000
L ** SOUTH WEST	0.00	0.00			-	
ARROW ELECTRONICS	20000.00	10000.00	72040.00	20000.00	20000.00	100.000
L **	20000.00	10000.00	72040.00 72940.00	20000.00 20000.00	20000.00 20090.00	
Book-To-Bill Ratio for Mo		Total		. Rati jar Ye. Total	ar to Defe	3.6020
This report uses sanal.prg, sanal.c sales.saleprice * sales.orqtyreq	lbf, sa	ales for nonth Amt2)	sales for year (Amt4) (E	for nonth Amt2)	invoices for year (BAmt4)	•
Sanal (c:\v881\sanal.dbf)		Rec	ora. Eor 710	necord Unk	OCKeu	



## Book to Bill Current Quarter with 6 Months Billing Projection

VFP - C:\Y905 (User: DOUG) Modules Tools Optional Configuration Manual C Print Preview - CURRENTQTRBOOKBILL.FRX PAGE NO. 1 11/20/2016 03:33:14 PM Current Quarter	Book to Bill Current C 6 Month Billing Pro	ojections ■ ■ ■ ■
Sum of Backlog (discount, no frt, tax) Backlog Month Delinquent Due 02/24/2014-11/19/2016 0 Due 11/20/2016-11/30/2016 1 Due 12/01/2017-12/31/2017 3 Due 02/01/2017-02/38/2017 4 Due 03/01/2017-02/38/2017 5 Due 04/01/2017-04/30/2017 6+ Due 05/01/2017 and later Grand Total MTD Net Revenue (Bill) MTD Backlog (11/01/2016 - EOM) MTD Revenue + Backlog QTD Net Revenue (Bill) QTD Backlog (02/24/2014 - EOQ) QTD Revenue + Backlog	CDelinquent = "Delinquent Due " + DTC 2000.00 2000.00 2000.00 2000.00 2000.00 2000.00 2000.00 12000.00 26000.00 2000.00 4000.00 2000.00 4000.00 8000.00	C(DATE()-1000) + "-" + DTOC(DATE()-1) Sales Orders - Date Required (SalePrice*GtyReq - Discount) Current Month to Date - Invoice Date (Invoices Price*GtyShip) Current Guarter to Date - Invoice Date (Invoices Price*GtyShip)
QTD Net Sales Entered (Book)	28000.00 	pc/MRP uses CurrentQtrBookBill.prg sales.saleprice * sales.orqtyreq - sales discount from open sales orders only (IF IIComplete = .F. AND InQtyReq > QtyShip) for bookings

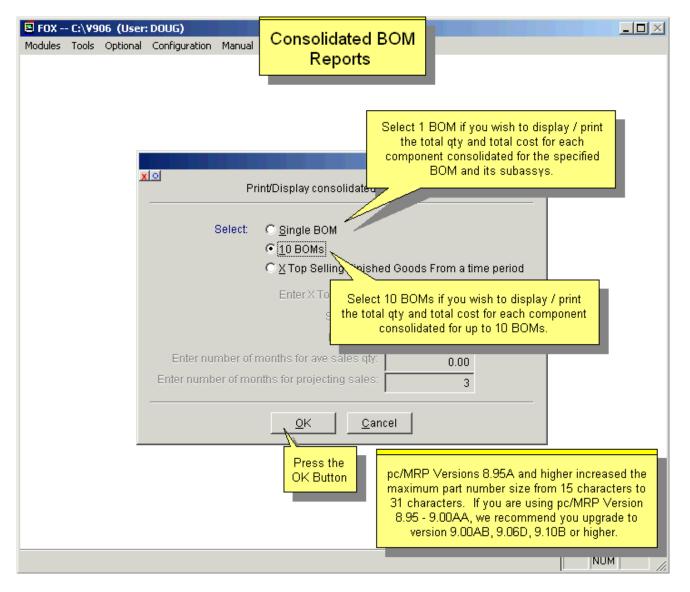
### 16.6.3 Consolidated BOM Reports

Selecting Consolidated BOM Reports will allow you to print/display Consolidated BOMs. Enter S or M for a single or multiple consolidated BOM printout or display. Enter the consolidated BOM number(s) and quantity(s). Choose the Costed or Uncosted report format.

If you select costed, choose between average or standard cost. If you select standard cost, the price/quantity fields in inventory will be used to select the correct unit price according to the consolidated total quantity for each part number.

If you select a single consolidated report to be printed out, you will be prompted to include a 9 month PO history report for each part number. Please note: the Total Cost in a Costed Single Consolidated Report is 0 if the there are enough parts on hand and on order to cover the total quantity required.

The Total Cost will equal: *unit cost* \* (*qtyreq - onhand - onorder*) *if qtyreq > onhand + onorder*.



#### SINGLE CONSOLIDATED COSTED DISPLAY FORMAT:

PART NUMBER	DESCRIPTION	TOTAL QTY	TOTAL COST
00000001	BEARING 3"	60	30.00
00000002	SPOKES	90	180.00
000000004	HUB SS	40	20.00

#### SINGLE CONSOLIDATED UNCOSTED DISPLAY FORMAT:

PART NUMBER	DESCRIPTION	TOTAL QTY
00000001	BEARING 3"	60
000000002	SPOKES	90
000000004	HUB SS	40

#### SINGLE CONSOLIDATED COSTED PRINTOUT FORMAT:

PART NUMBER	MODEL NUMBER	DESCRIPTION	MANUFACTURER	QTY REQ	COST
00000001	B30304	BEARING 3"	GENIS CORP	60.00	30.00
	EII444444		STANFORE INC.		
00000002	SS 95495	SPOKES	ALLBRIGHT	90.00	180.00
	SS 95495		BRETTE MFG		
	40R-E-A		MANES INC		
00000004	RR - 89	HUB SS	FENWAY MFG	40.00	20.00
			TOTA	AL COST	230.00

TOTAL COST

230.00

#### SINGLE CONSOLIDATED UNCOSTED PRINTOUT FORMAT:

PART NUMBER	MODEL NUMBER	DESCRIPTION	MANUFACTURER	QTY REQ
00000001	B30304 EII44444	BEARING 3"	GENIS CORP STANFORE INC.	60.00
000000002	SS 95495 SS 95495 40R-E-A	SPOKES	ALLBRIGHT BRETTE MFG MANES INC	90.00
000000004	RR - 89	HUB SS	FENWAY MFG	40.00

#### SINGLE CONSOLIDATED COSTED W PO HISTORY FORMAT:

PART NUMBER	DESCRIPTION LOCA	TE ONORDER	ONHANE	O QTY REQ	STATUS 7	FOTAL COST
00000001	BEARING 3" 1A2	0.00	0.00	60.00 -	-60.00	0.00
	PO NUM VENDOR I	D PO DATE ORI	ER QTY	QTY RECVD	UNIT COST	Г
	000103 VMARS	06/06/93	400.00	400.00	0.5000	)
000000002	SPOKES 3A4	180.00	0.00	90.00	OK	0.00
	PO NUM VENDOR I	D PO DATE ORI	DER QTY	QTY RECVD	UNIT COST	Г
	000505 SDI009	07/06/93	200.00	200.00	0.5000	)
000000004	HUB SS R5B1	50.00	50.00	40.00	OK	0.00
				TOTAI	COST	30.00

#### MULTIPLE CONSOLIDATED PRINTOUT FORMAT:

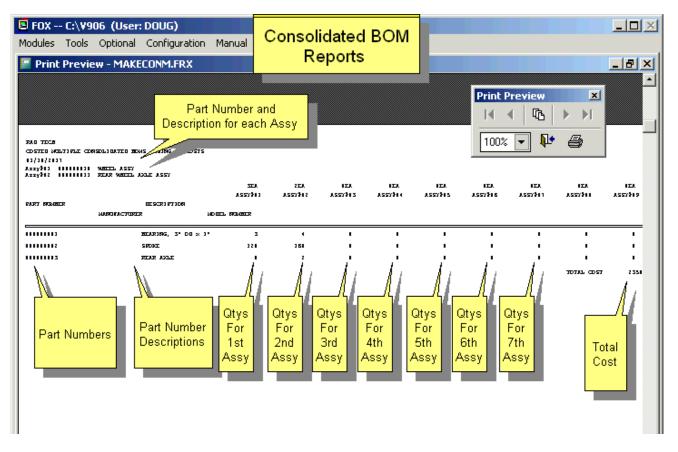
BOM QTY 2 EA 2 EA 2 EA 2 EA 2 EA ASSY # ASSY # ASSY # ASSY # ASSY # TOTAL PRICE BREAK TOTAL ONORDER ONHAND PART # DESC 000010 000015 000034 000235 003310 QTY UNIT COST COST QTY OTY 
 QTY
 QOOOL WHEEL
 2
 5
 30
 20
 3
 60

 00002 SPOKES
 40
 10
 10
 20
 10
 90

 00004 HUB SS
 5
 5
 10
 10
 10
 40
 5 .50 30.00 5 2.00 180.00 0 10 23 .50 20.00 10 TOTAL COST 230.00 TOTAL PER UNIT COST 115.00

#### Notes:

The maximum number of BOMs that can be consolidated in one report is 10. The price break costs are automatically entered from the inventory price break table. BOM quantities can be different for each BOM. Select Column headings by Description if your assembly number exceeds 10 characters in length. Selecting "Description columns" prints the first 10 characters of each Assembly Description. If you select "Assy Number columns" and your part numbers are larger than 10 characters, the total width of the columns could exceed the width of the page.



#### 16.6.4 Cost of Sales Report

Selecting Cost of Sales will allow you to generate a cost of sales report sorted by Part number and subtotaled on product codes. The report can include all parts, parts with sales, or parts with no sales. The report can be displayed, sent to a printer or to a disk as an ASCII, DBF, PDF or HTML file, or sent to Excel. You can select the starting date and ending date (first and last date of the month in question) and the starting and ending date of the year in question. The cost comes from the PO\_Cost field in the invoice database table.

DATE XX-XX-XX		COST OF SALES	FROM XX/XX/XX	TO XX/XX/X	x			
BOM/PART #	UNITS	TOTAL SALES\$	TOTAL COSTS \$	% MARGIN	YTDUNITS	YTDSALES	YTDCOSTS	% MARGIN
PRODUCT CODE TF-	-							
TF-C	14	490.00	49.00	10.00	XX.XX	XXXX.XX	XXXXXXX.XX	XX.XX
TF-CW	10	550.00	39.00	7.09	XX.XX	XXXX.XX	XXXXXXX.XX	XX.XX
TF-HC	5	200.00	25.00	12.50	XX.XX	XXXX.XX	XXXXXX.XX	XX.XX
SUB-TOTAL	29	1240.00	223.00	9.71	xx.xx	xxxx.xx	xxxxxx.xx	xx.xx
PRODUCT CODE SA-	-							
SA-2	8	360.00	45.00	XXX.XX	XX.XX	XXXX.XX	XXXXXX.XX	XX.XX
SUB-TOTAL	8	360.00	45.00	XXX.XX	XX.XX	XXXX.XX	xxxxxx.xx	XX.XX
TOTAL	37	1600.00	158.00	XXX.XX	XX.XX	XXXX.XX	xxxxxx.xx	XX.XX

# Sample Cost of Sales Report: ACUDYNE, INC

### 16.6.5 Estimated Usage and Min Qty Reports

See slide show at : <u>http://www.pcmrp.com/mrp101/autocalcestuseoverview.htm</u>

#### (selection 'I')

This option will automatically calculate and fill every part's usage and minimum quantity fields based on: Invoices and their related BOMs or Stockroom and Invoice Issues

Select the method to set minimum quantities: (Invoices and Related BOMs Only)

- Parts only, infinite levels deep (sets minimum quantities for parts that are listed on an invoice and parts required for the assemblies listed in the invoices) - This is the recommended default setting.
- Top level parts and assemblies only (sets minimum quantities for parts and assemblies directly listed on invoices)
- First level parts and sub assemblies only (sets minimum quantities for parts one level down from the main assemblies listed on the invoices, and for parts listed on the invoices)

Select the method to set the safety stock:

- Percentage of the minimum quantity amount. If you enter 1.10 the new min quantities will keep your stock at 10% when the new stock arrives. Entering 1.20 will keep your stock at 20% when the new stock arrives. Entering 1.00 will allow the stock to run out just as the new stock arrives. Entering 0.00 will zero out your minimum quantities
- Number of Wks of stock left when new stock arrives If you enter 1 the new min quantities keep your stock at 1 week's worth of safety stock when the new stock arrives. Entering 2 will keep your stock at 2 weeks worth of safety stock when the new stock arrives. Entering 0 will allow the stock to run out just as the new stock arrives.

Select the time period to be studied

• The date range can be set by the user.

If you have certain part numbers or assemblies whose min quantities you do not want changed regardless of usage figures, check he "Lock the Minimum Qty" checkbox in inventory. (For versions 8.62 and older, enter "SAV" into that part or assemblies CATINDEX field in inventory. The upgrade to a higher version automatically carries over these settings.)

Users can set the "**Minimum weeks of Inventory**" on the Inventory screen. If greater than 0, the Sales Analysis Program will use this value for Number of weeks of Safety Stock instead of the default Number of Weeks of Safety stock on the Estimated Usage screen.

### Weeks Onhand:

If you leave the "**Update Min Qty Values in Inventory**" checkbox unchecked, pc/MRP will not update the minimum quantity values in the inventory module. This checkbox is available in the Stockroom and Invoice modules only.

Below is a comparison between the 3 options. The time period has two invoices, one for 000000011 (that calls for 000000003 and 000000010, where 000000010 calls for 000000001 and 00000002), and one for part 000000004. (These are the usual parts/BOMs from test dataset 16.)

Invoice #	Sales #	Item #	Part Number	Acct #	Post	Cmpl	Date Due	Description 🔺	
000012	000027	0001	00000011	TRA001			06/08/2017	REAR WHEEL AXLE ASS	
000013	000028	0001	00000004	TTT001			06/08/2017		

Totaling qtys from invoices using top level parts & assys only P/B ITEM BOM/PART NUMBER INVOICE QTY USED NEW USAGE BOM 000000011 000012 3.0000 3.0000 P/B ITEM BOM/PART NUMBER INVOICE QTY USED NEW USAGE PART 000000004 1.0000 1.0000 000013

Totaling qtys from invoices usin	g first level parts	4 assys only		
P/B ITEM BOM/PART NUMBER		INVOICE	QTY USED	NEW USAGE
PART 0002 000000003	000012	3.0000	3.0000	
P/B ITEM BOM/PART NUMBER		INVOICE	QTY USED	NEW USAGE
PART 00000004	000013	1.0000	1.000	00

## Sample Estimated Usage Calculation Report:

Replacing new usage fields with 0 Filtering invoices for the specified time period Totaling quantities from invoices using the parts only method								
P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED						
PART 001 00000001	000001	24.0000						
PART 002 00000002	000001	960.0000						
P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED 24.0000	NEW USAGE					
PART 001 00000001	000002		48.00					
P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED						
PART 002 00000003	000003	48.0000						
PART 001 00000001	000003	48.0000						
PART 002 00000002	000003	1920.0000						

Dividing all usage quantities by 25.71 weeks

Replacing usage with new usage figures (units/wk)

PART NUMBER DESCRIPTION NEW USAGE OLD USAGE CHANGE

00000001	BEARING 3" ID	4	4	0
000000002	SPOKES 10"	112	102	10
00000003	SPINDLE ALLOY	2	5	- 3

Replacing min quantities with new min qtys + safety factor for usage > 0 min qty = (usage x ldtime) + (usage x safety)'

min qty = units usage = units/wk ldtime = wks'
safety factor = 1 wks

PARTNUMBER	DESCRIPT	NEW	EST	USAGE	LTIME	ONHANDQTY	WIPQTY	NEW MINQTY	OLD MINQTY	CHANGE
000000001	BEARING 3"	ID		4	1	100	50	8	8	0
000000002	SPOKES 10"	х.1	25	112	2	200	60	336	306	30
00000003	SPINDLE AL	LOY		2	1	40	30	4	6	-2

### 16.6.6 Sales Trends

Selecting Sales Trends will allow you to generate a sales trend report sorted on Part number, Vendor, Qty, or \$ Amount. If you select Vendor as your sort and a wide carriage print out, the report is subtotaled by vendor. The report can include all parts, parts with sales, or parts with no sales. The report can be displayed, sent to a printer or to a disk as an ASCII, DBF, PDF or HTML file, or sent to Excel. You can select up to three different time periods you wish to compare (month 1, 2, 3, total, or qtr 1,2,3,4 or yr 1, 2, 3, total).

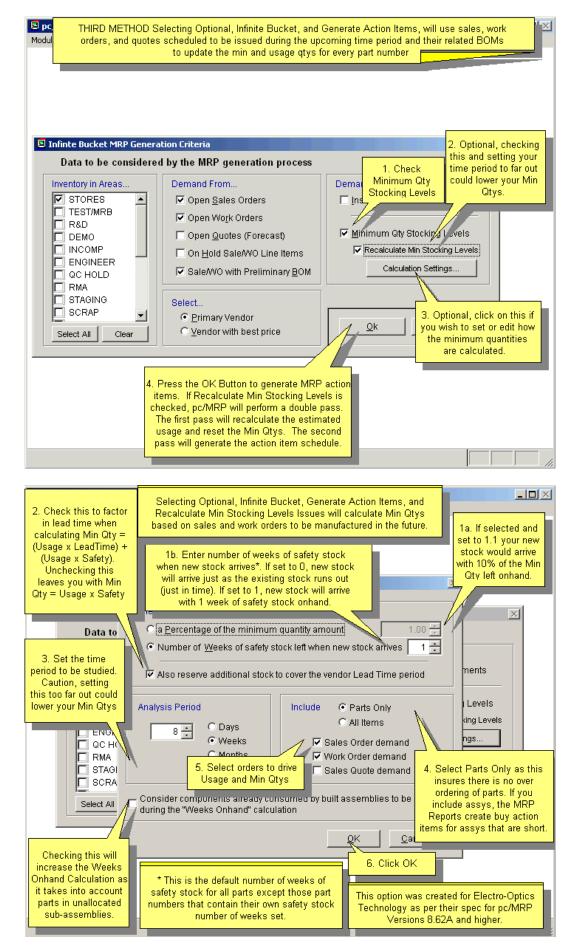
#### **Sample Sales Trend Report:**

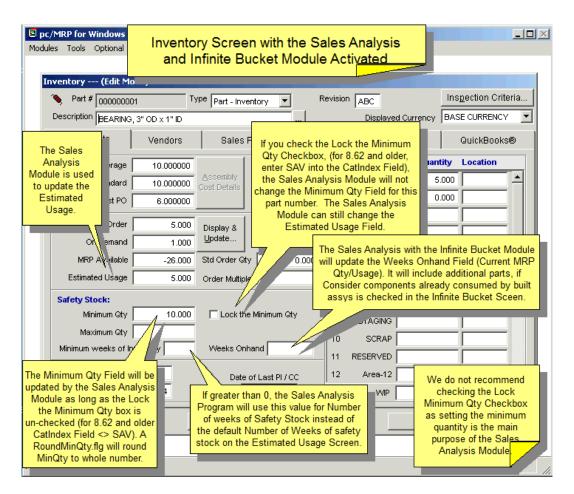
Page No. 1		Period 1 = 09/01/92 to 09/30/92 Period 2 = 10/01/92 to 10/31/92 Period 3 = 11/01/92 to 11/18/92							
				SALES AN	ALYSIS				
PARTNO AMOUNT	DESCRIPT	QTY PER1	QTY PER2	QTY PER3	TOTAL QTY	AMT PER1	AMT PER2	AMT PER3	TOTAL
000000001 446.90	BEARING 3"	5	10	30	45	50.00	99.90	297.00	
000000002	SPOKES 10"	0	1	0	1	0.00	1.50	0.00	
000000003	SPINDLE ST	0	1	0	1	0.00	38.50	0.00	
000000010	WHEEL BASE	0	0	20	20	0.00	0.00	0.00	
486.90					67	50.00	139.90	297.00	

To Print/Display the Work Order Usage Report you would select Optional, Sales Analysis, Sales Trend, Sort on Division + Part Number, All Work Orders and enter the starting and ending date for all work orders entered in that date range. The resulting report (componentusage.frx) consists of two parts. The first part of the report would list all the top assemblies for the work orders entered in the specified date range and the total quantity assembled for each top assembly. The second part of the report would consist of all the parts and their total quantities issued from the stockroom to manufacturing for those work orders. For Battery Tech only, the second part of the report will also include invoice component items that were sold during that time period.

If you selected "All for a specified division", the second list would contain only parts issued that belong to that division. For example, if you were to edit that part you would see its division field would contain the same division you specified.

#### 16.6.7 Sales Analysis with the optional Infinite Bucket module





### 16.6.8 Output Consolidated BOM to Excel

Select up to 10 BOMs and their quantities. Select the inventory areas you want to include. Type in a name for the newly created Excel file.

The Excel file will display the following COLUMNS:

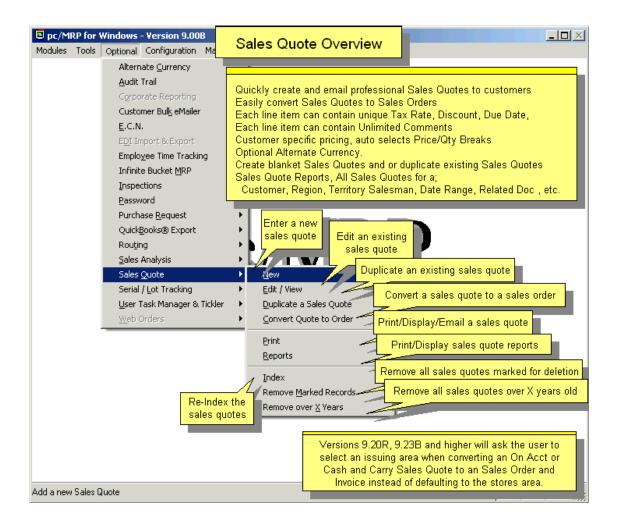
Lead Time (in week) Std Cost Part Number Description <BOM 1> <BOM 2> ..... (depending on your selections) Usage Stores <Area 2> ..... (depending on your selections) Wip Open PO Total On Hand Short Vendors Quantity (these are up to 5 open POs for that part) Due Quantity Due Quantity Due Quantity Due Quantity Due

# **16.7 Optional Sales Quote Module**

#### 16.7.1 Quote Module Overview

The Sales Quote Module creates, edits, approves, and prints out sales quotes. In addition it can also convert sales quotes to sales orders and print out a tickler quote report for all open quotes exactly 30, 60, and 90 days old. Please see Chapter 9, Sales Orders, for more detail.

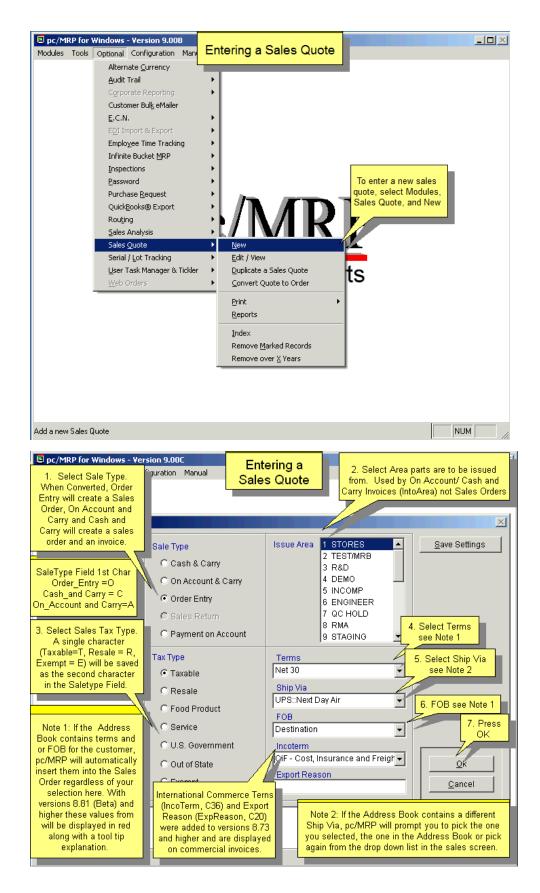
An online slideshow is located here: http://www.pcmrp.com/mrp101/sqoverview.htm



### 16.7.2 Activating the Sales Quote Module

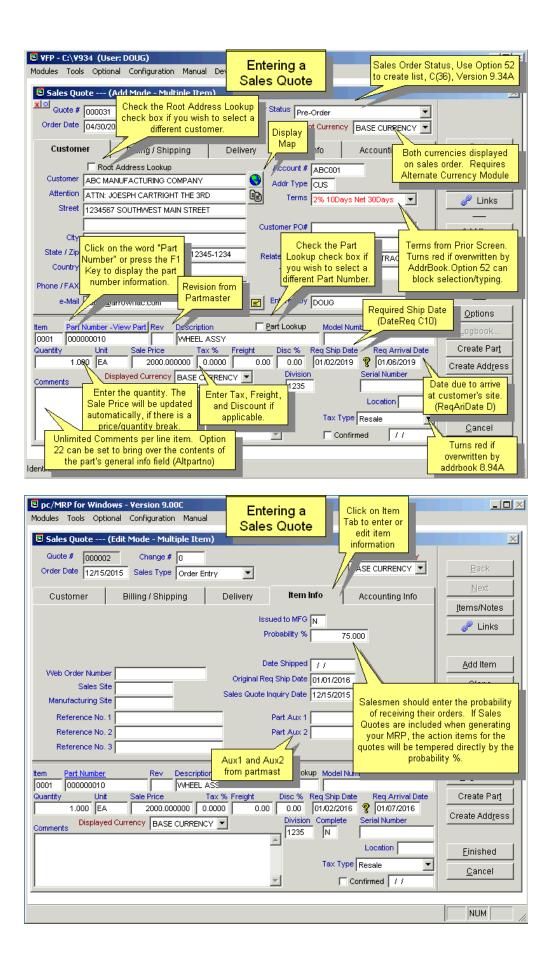
To activate the module, select Configuration, Module Activation, and then Sales Quote from the menu, and enter the activation number obtained from Software Arts.

#### 16.7.3 Entering a Sales Quote with Probabilities



VFP - C:\V934 (User: DOUG) Modules Tools Optional Configuration Manual Dev     Sales Quote (Add Mode - Multiple Item)	Entering a Sales Quote	
Guote # 00000 Order Date 04/30 Customer Customer	Order Status  Document Currency BASE CURRENCY  y Item Info Accounting Info	Back
Customer ab	Account # Addr Type Terms Net 30	Next
City State / Zip Country Phone / FAX	Customer PO#	Add Item Clone Breakdown Delete
Select the desired Address record  Id Name ABC001 ABC MANUFACTURING COMPANY ALL001 ALLIED ELECTRONICS AVN001 AVNET ELECTRONICS BBC001 BBC MANUFACTURING COMPANY CAL001 CA STATE BOARD OF EQUALIZATION CAN001 CANA MANUFACTURING CORPORAT	Pname ATTN: JOESPH CARTRIGHT THE 3RD ATTN: JOHN DOE ATTN: JOE SMITH N ATTN: DEPT 99	
Addrbook (c:\v934\addrbook.dbf)	Record: 1/10 Record Unlocked	

VFP - C:\V934 (User: DOUG)		Entering a		
Modules Tools Optional Configu	uration Manual Dev	Sales Quote		Auto inserted from
📃 Sales Quote (Add Mode	- Multiple Item)			AddrBook, Ver 8.82L and
Quote # 000031 Cha	ange # 0	Order Status		higher insert the Sales Quote # when a Sales
Order Date 04/30/2019 Sales	Type Order Entry	Document		Quote is converted to a
			· · ·	Sales Order, Ver 8.83J and higher tack on the
Customer Billing	/Shipping E	Delivery Item Ir	ifo Accounting Info	change order # from the
Root Address Lo			ABC001	ales quote. Field Name is Contract
Customer ABC MANUFACTUR		Addr Type		,
Attention ATTN: JOESPH CAR		E Terms	% 10Days Net 30Days 💽 🍦	🖉 Links 📗
Street 1234567 SOUTHWE	ST MAIN STREET	_		
		Customer PO#	//	Add Item
City MOUNTAIN VISTAS		Contact	IOE SMITH	Clone
State / Zip CA	12345-1234	Related Doc # F	RELATED DOC/CONTRACT#	
Country USA		Territory	Vest Coast	Breakdown
	ems without a part ; IA" and the descrip		rt of the part description, par	t <u>D</u> elete
e-Mail sales@arro	A and the descrip	number or m	odel number and press Ente	
Item Part Number F	Rev Description	✓ Farr Lookup	Model Number	<u>O</u> ptions
Item Part Number F	Rev Description	Je _art Lookup	2. Select the part	Logbook
Select the desired Part received	ord		and press OK.	- D × eate Part
Part Number Rev De	scription	Model No	Imanulaciorer	e Add <u>r</u> ess
▶ 🗰 000000010 👘 🗰 WH	IEEL ASSY			pproval
	With pc/MRP Versi igher the sales orde			nished
	serted into a Sales			▶ _ ≥ancel
	oc # (if empty) wh			
Show Obsolete Items	is converted to a	sales order.	Ok <u>C</u> ancel Record Unlocked	
Partmast (c:\v934\partmast.dbf)			hecora Uniockea	NOM

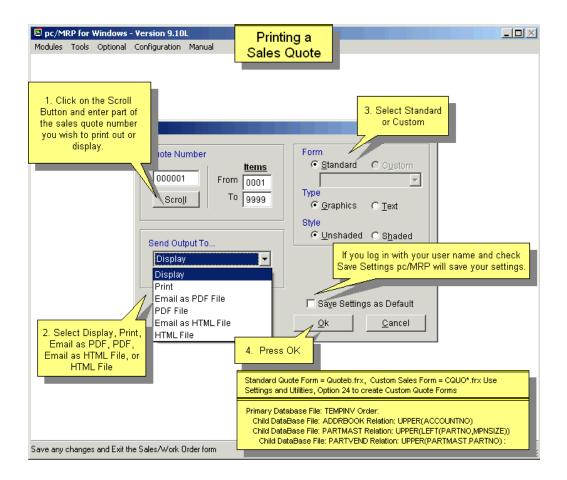


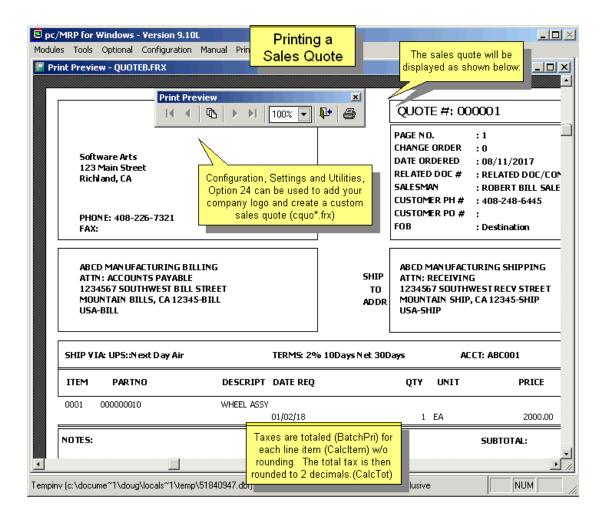
A % probability can be assigned to each line item of a Sales Quote. This probability is the likelihood of this line item becoming a real sales order. Through the use of the **Infinite Bucket** module Sales Quotes can then be added for planning and parts from these sales orders will be required according the % probability.

### 16.7.4 Print/Email Sales Quotes

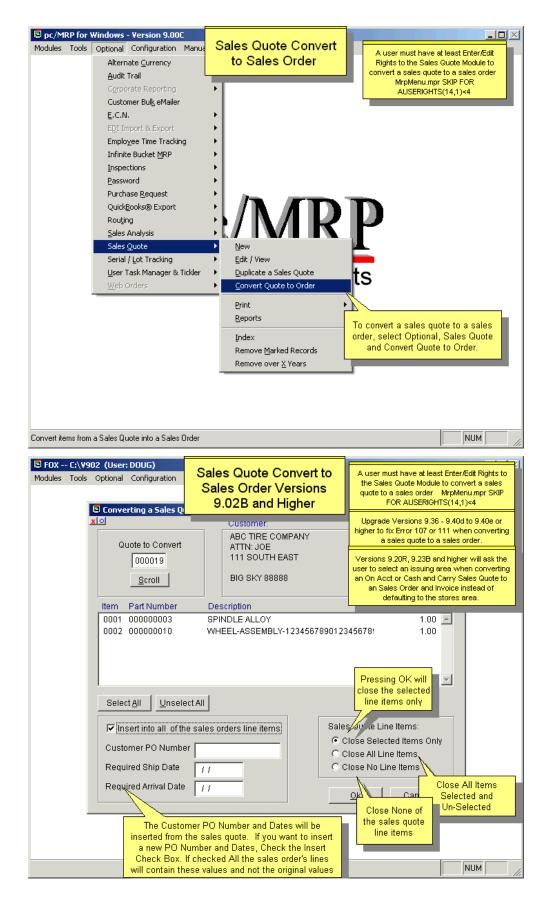
The Sales Quote report engine is exactly the same as the sales order report engine. After you have selected the criteria for your report, you also have the opportunity to print, display, and fax or send the actual quote to e-mail, or an HTML document to attach the quote to an e-mail. Through the use of programs like WINFAX users can also directly fax from pc/MRP. If you print to .pdf, the file name will include the revision number.

**Note:** If you send an e-mail directly from pc/MRP, you can use MS Outlook, or pc/MRP's own email program, CDO. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book. If you create an HTML or PDF document, you can save this document and attach it to an e-mail created in your existing e-mail program.





#### 16.7.5 Convert Sales Quotes to Sales Orders



Users can scroll the Sales Quote table to select a sales quote, and then select the line items the new Sales Order will include. The user can then select to close all line items, only the selected (converted) line items, or no line items at all. (In Version **9.02A** and lower, the selected line items were always closed.)

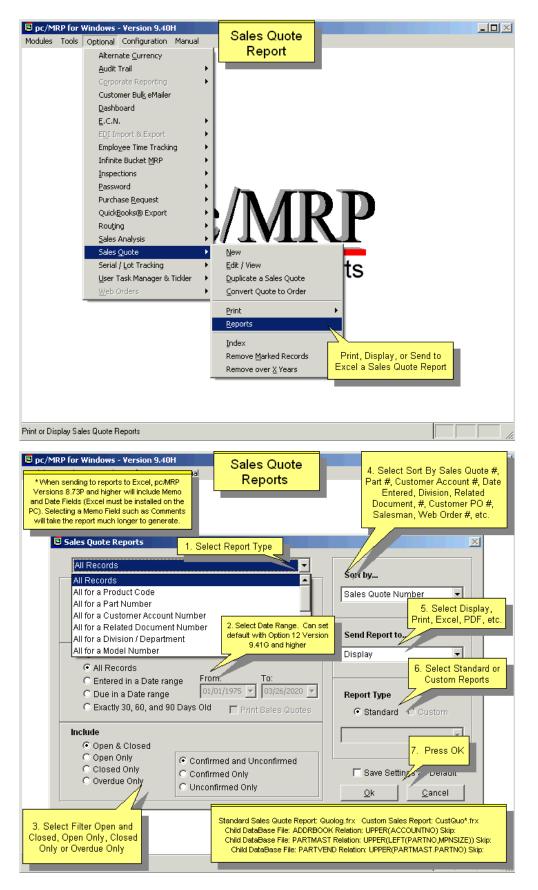
The Customer PO Number and Dates will be inserted from the sales quote. If you want to insert a new PO Number and Dates, check the "Insert into all of the sales orders line items" check box. If checked, all the sales order's line items will contain these values and not the original values (**9.02** and above).

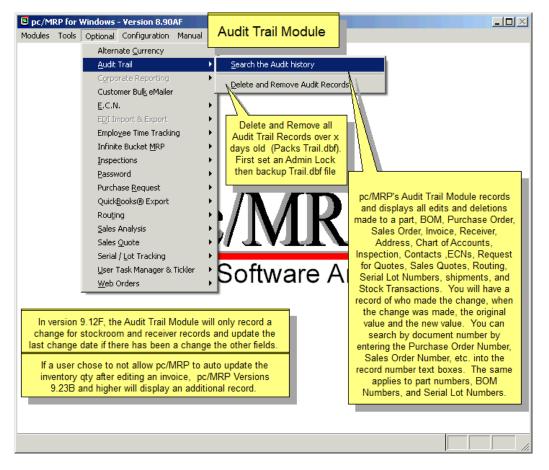
If there is an invalid part number in the Sales Quote, pc/MRP will offer to convert this part to an "NA" part number, or to exclude it from the list of items to convert.

The **Related Document Number** (Contract) is a 21 character scrollable field. It can be used to enter a related contract number, serial number, or document number. If the customer has a Related Document Number in the Address Book, it will be carried over into the Sales Quote. If/when the Sales Quote is being converted to a Sales Order, the Sales Quote's Related Document Number will be carried over into the Sales Order. If the Sales Quote doesn't have a Related Document Number, then the Sales Quote's number itself will be inserted into the Sales Order Related Document Number, then the Sales Quote's number itself will be inserted into the Sales Order number (**8.83J** and above, **8.88A** and above).

The Sales Order will have the same Sale Type as a Sales Quote. When users convert an Order Entry SQ to a SO, an Order Entry SO will be created. When the SQ is Cash and Carry or On Acct & Carry, a Cash and Carry or On Acct & Carry SO will be created, along with an invoice.

### 16.7.6 Print / Display a Sales Quote Report





# 16.8 Optional Audit Trail Module

### 16.8.1 Audit Trail Overview

The Audit Trail Module provides a means of tracing edit changes made in any of the pc/MRP modules with the exception of accounting. Whenever a change to a record occurs during an editing session, the Audit Trail module will record the Date, Database, Time, User, and Field Name as well as the Record & Item numbers, Part/BOM number, or Address ID number. A flexible search feature allows retrieval of the recorded change based upon a variety of criteria.

The Audit Trail will keep track of <u>edit and deletion changes</u>, like changing quantity ordered or due date on a PO, marking a SO for deletion, or changing the standard cost of a part item. The Audit Trail will <u>not</u> keep track of actions like entering a new PO, adding a new part item to the inventory, or the change of a part's average cost due to entering a new receiver. The Audit Trail will <u>not</u> keep track of changes in the Accounting module, nor of those in the Configuration menu.

An online slideshow is located here: http://www.pcmrp.com/mrp101/trailsearch.htm

### 16.8.2 Module Activation

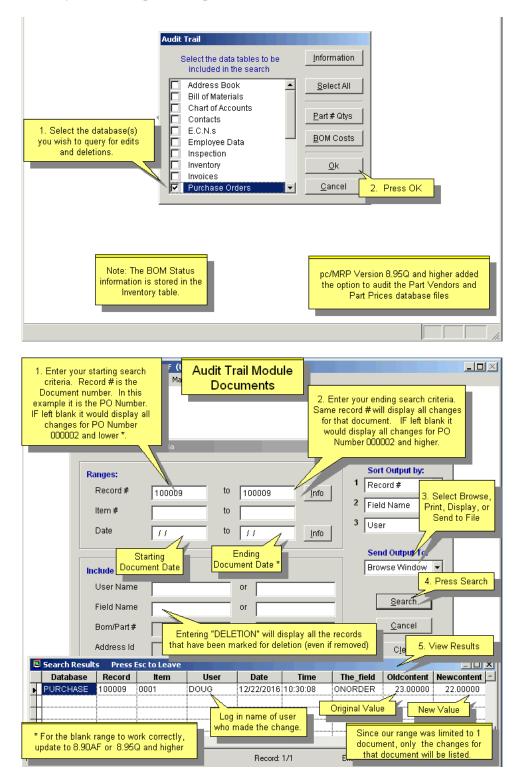
The Audit Trail Module is an optional module. To activate the Audit Trail Module, select Configuration, Module Activation, and then Audit Trail from the menu. To initiate this module Select Free Ten Day Trial, or call Software Arts (408-226-7321) to purchase this optional module, obtain your activation number and select Full Activation.

**Note:** The Audit Trail will not contain records of changes that happened <u>before</u> the module has been activated. (Otherwise pc/MRP would accumulate a large amount of data, without the users being able to periodically delete some of it, see Section 16.8.6 below)

## 16.8.3. Searching Audit History for any or all edits or deletions

To view prior edits and deletions made to Inventory, BOM, POs, etc., Select Optional, Audit Trail, Search Audit History and the Audit Trail Screen shown below will be displayed. A search can be conducted which returns as much or as little information as the user requires. Selecting all databases while leaving all other criteria blank, would return every change that has been made everywhere. Scroll to the right to see the Newcontent field.

If you select more than one table, the resulting records will have a change in (at least) one of these tables, not in all of them. I.e. if Purchase Orders and Inventory are selected and you enter a part number to search for, the resulting list will include all the changes for that part number in Inventory, and all the changes in the Purchase table whether or not they are for this particular part number.



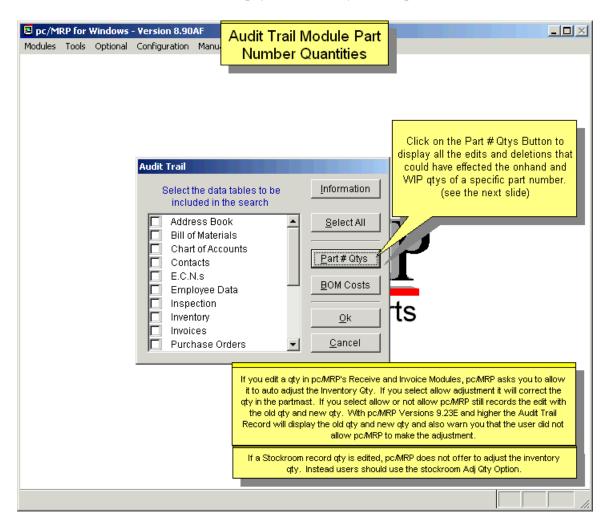
You can limit the Query to return only those that meet a specified Date by entering the same date into the first and the second field. You can return all records within a Date range by entering the start date into the first field, and the stop date into the second field. To return all records from a specified Date enter the start date into the first field. To return all records up to a specified Date enter the stop date into the second field.

Similarly, you can limit the Query to return results for a certain document number, a document number range, or from / up to a specified point in the document numbers.

**Note:** In versions below **9.12F** and **9.20** if the user opened a Stockroom or Receiver record and then clicked Ok without actually changing anything, then the Audit Trail recorded a change in the LASTCHANGE field.

### 16.8.4. Searching Audit History for changes in Onhand or WIP Quantities

To find edits or deletions to receiver, invoice and stockroom records that could have affected stockroom and WIP quantities, click on the Part # Quantities Button as shown below. Please recall that editing the quantities on stockroom transactions does not change the quantities in the inventory file (these will have to be edited manually). Editing the quantities on receivers or invoices will change the quantities in the inventory file, as long as the receiver's date is <u>after</u> the date of the last physical inventory for that part.

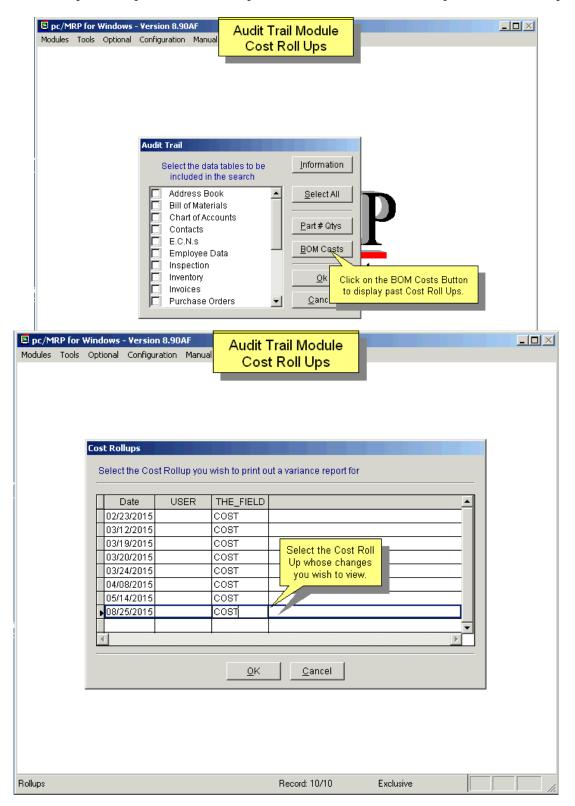


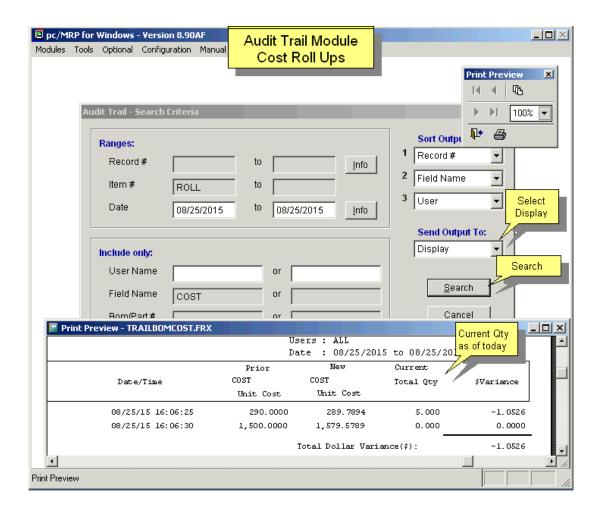
Whenever a receiver, invoice, or stockroom quantity is edited or deleted, the partno field in the TRAIL.DBF file is filled with the partnumber. This is the only time the partno field is filled in with the partnumber. The 'Part Number Quantities' report keys on the partnumber field.

Step - C:\V923 (User: DOUG) Audit Trail Module F	Part
Modules Tools Optional Configuration Manu Number Quantitie	
Ranges:         1. Enter a date Range.         to         Info           Item #         08/01/2012         to         09/10/2018         Info	Sort Output by: 1 Record # • 2 Field Name • 3 User •
Include only:	Send Output To: Browse Window - 3. Press Search
User Name 2. Enter a Part Number	<u>S</u> earch sol
Bom/Part# 000000010 or	<u>C</u> ancel
Address Id or	Clear
SN/Lot# or	All versions of pc/MRP will display the content of the field before and after an edit.
Search Results Press Esc to Leave Record Item User Date The_field Oldcontent	Newcontent
000001 0001 DOUG 09/10/2018 QTYSHIP 5.00000	4.00000
000001 0001 DOUG 09/10/2018 QTYSHIP Inventory Not Adjusted. Old	
qty after editing an	not allow pc/MRP to auto update the inventory invoice or receiver, pc/MRP Versions 9.23B isplay a warning and a 2nd partno Column.

### 16.8.5. Searching Audit History for Cost Roll-ups

To print a variance report for a previous cost roll up, click BOM Costs, and select a previous cost roll up.





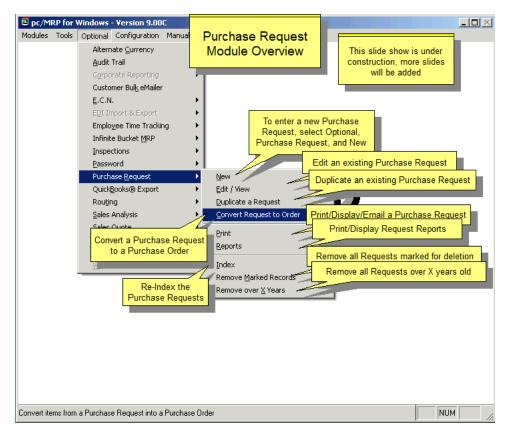
#### **16.8.6 Deleting Audit Trail Records**

Since the Audit Trail module makes a record of each change made, it tends to grow very rapidly. It, therefore, becomes necessary to remove obsolete records on a regular basis. How often these records are removed would vary depending upon your situation and the nature of your business.

To delete Audit Trail records, you should first ensure that a backup is made for archival purposes. Then Select Optional, Audit Trail, Delete and Remove Audit Records. You will be asked to enter a number representing the number of day's worth of records that you want to <u>retain</u>. All others will be deleted. The default is 90 days, but you may enter anything from 30 days to 9999 days.

## 16.9 Optional Purchase Request (RFQ) Module

#### 16.9.1 Purchase Request Module Overview



The Purchase Request Module creates, edits, and prints out Purchase Requests. It can also be printed out as a **Request for Quote** to request pricing information from a vendor. The Purchase Request can easily be converted into a Purchase Order by selecting the Request items to be included in the conversion. Please see Chapter 7, Purchase Orders, for more detail.

### 16.9.2 Activating the Purchase Request Module

To activate the module, select Configuration, Module Activation, Purchase Request from the menu, and enter the activation number obtained from Software Arts, Inc.

### 16.9.3 Creating and Editing a Purchase Request

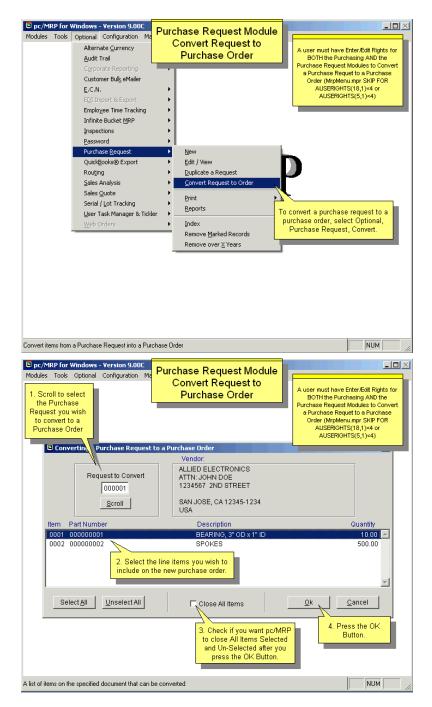
Select Optional, Purchase Request. The process of creating or editing a Purchase Request is the same as creating and editing a Purchase Order. Refer to Section 7.1 of this Manual for a detailed explanation of the process.

## 16.9.4 Purchase Request Approval Process

Companies that own the optional Advanced Password Module, can utilize the PR Approval feature below. The optional User Task Manager & Tickler Module adds an additional feature, but is not essential. For details please see Section 7.3 of this Manual.

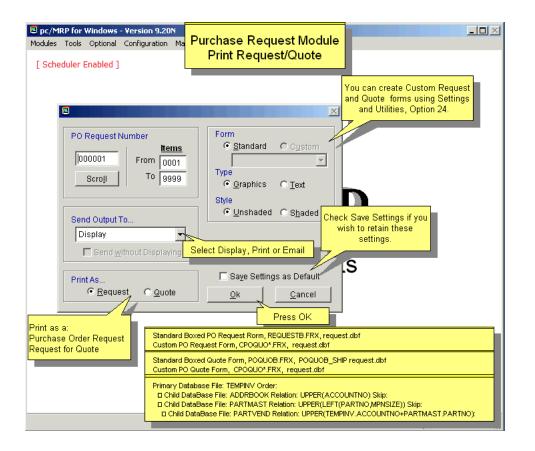
Modules Tools	0 <b>6 (User: DOUG)</b> Optional Configurati	_	PR Appro	oval Overview	can be assigned rights	With versions 9.00 and higher users can be assigned rights to digitally sign and approve POs and PO Requests		
Prime Contract of	ord & Access Rights							
× OJser Name	Password 🔺	EDI	Inv Areas	PO Approval	PR Approval			
ROB	YABA	N	Edit	No Approval Rigl 💌	No Approval Righ 💌 🔤			
▶ RON	RON	▶ N	Edit	Level 1 Approval 💌	Level 1 Approval 🔽			
800	500	N	Edit	Level 2 Approval 🝷	No Approval Rights			
Editing re		sword Module to if any, and level	Level 1 Approval Rights Level 2 Approval Rights Level 3 Approval Rights Level 4 Approval Rights	<u>H</u> ack				
New	<u>D</u> elete			<u>O</u> k	Cancel	Next		
Wp_temp				Record: 3/7	Exclusive	tems/Notes		
Vendor Name	BBC MANUFACTURIN	_	NY	Vendor Contact Terms NET:	30 •	Links		
	ATTN: JOE SMITH Street 111 SOUTH MAIN STREET				PO Request #			
Street								
		xo		Signature	<u>&gt;</u>	Breakdown		
City	RICHVIEW					Delete		
State / Zip	CA	Lev	vel 1 Approval		Insert Signature			
Country	USA	Lev	vel 2 Approval	Xim	Remove Sign	Options		
Vendor Ph #		Fa: Lev	vel 3 Approval	Ron	That person could then	Log		
			or o Approva		edit a PO, Press the pproval Button and Insert	Create Par <u>t</u>		
Item # Part Num	<u> </u>	esor Lev Ear	/el 4 Approval		heir signature at the level	Create Address		
pc/MRP's Optional Tickler Task     Y:     To request a signature from ar     they are approved for.       Manager Module will allow users to send a message to a user requesting he     Ok								
insert his appr	oval signature on a	PO.		Record: 1/11	Record Unlocked			

#### 16.9.5 Converting a Purchase Request to a Purchase Order



Selecting "Convert Request to Order" will open a dialog window where the user may select the items of the Purchase Request that are to be converted into a Purchase Order. Multiple items can be selected by holding down the [Ctrl] key on the keyboard while clicking on the items with the mouse. Only those items selected will be converted. After the PO is generated, those items selected will be marked as "Complete" on the Purchase Request. If the "Close all items" check box is selected, the Purchase Request items not selected for conversion will also be marked as "Complete." If there is an invalid part number in the Purchase Request, pc/MRP will offer to convert this part to an "NA" part number, or to exclude it from the list of items to convert.

If the Advanced Password Module is activated, a person must have Enter/Edit or Deletion rights to the PO Module and Enter/Edit or Deletion rights to the Accounting Module.



The Purchase Quote report engine is the same as the purchase order report engine. After you have selected the criteria for your report, you also have the opportunity to print, display, fax, or send the actual quote via e-mail, using a PDA or HTML document to attach the purchase quote to an e-mail.

**Note:** If you send an e-mail directly from pc/MRP, we use MS Outlook. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book and the PDF of HTML file will be attached. If you create a PDF or HTML document, you can save this document and attach it to an e-mail created in your existing e-mail program.

**Option 83** allows the user to add, edit or delete Terms and Conditions for Purchase Orders. Terms that are checked as default terms are included in all new purchase orders. When a user is creating a purchase order he/she can press the Options Button to select Terms and Conditions other than the default Terms and Conditions.

When a purchase request/quote is created in the REQUEST.DBF file it will store the default terms in its termcond memo field. If the termcond field is not empty the terms and conditions sheet will print out right after the purchase request/quote prints out. This is the same for a PO with the exception that a PO's Terms and Condition Field can be manually edited by pressing the Options button on the PO Data Entry Screen. Creating 2 files named REQUESTB.EF and POQUOB\_SHIP.EF will prevent the T&C page print out. The files should contain PCTERMCONDIDLIST = "" after the ~IN~ clause.

The standard Terms and Conditions form is stored as TC.FRX. If you need to customize this form (for example change font or font size), save the modified form as CTC.FRX. pc/MRP will automatically print the custom Terms and Conditions form, if it exists in the PCMRPW folder.

# **16.10 Optional Serial/Lot Number Module**

#### 16.10.1 Overview, Settings

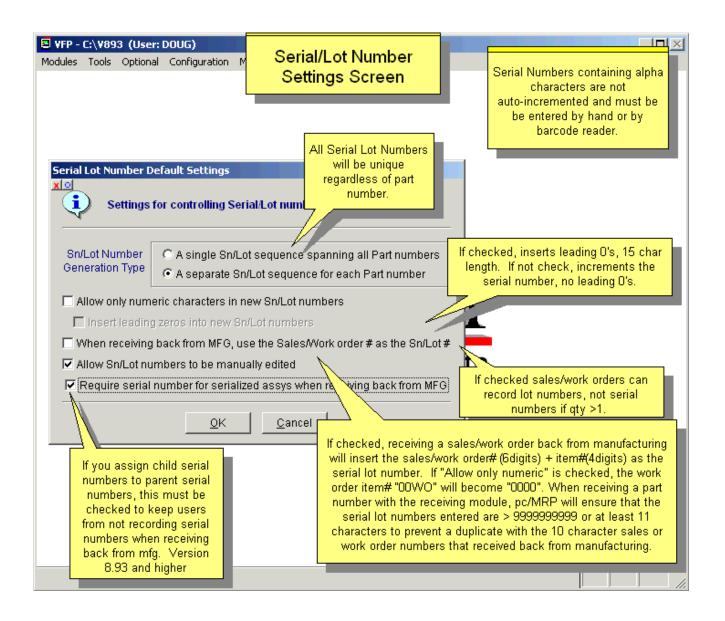
A set of online slideshows with step-by-step description of several scenarios is located here: <u>http://www.pcmrp.com/mrp101/snlot101index.htm</u> Due to the high volume of images, many of the examples are only available online.

Iodules Tools	3 (User: DOUG) Optional Configuration Manual	Serial/Lot Number Over	view
	Alternate Currency	-	
	Audit Ti		
	E.C.N. When receiving pa EDI Imp When receiving pa Employ: When issuing par When receiving ba When receiving ba	can be checked as requiring SnLot N arts, users can enter or generate Sn/ arts, users can insert docs, test data ts to manufacturing, users can enter ack assys from mfg, users can enter ack assys from mfg, users can inserf	/Lot Numbers and expiration dates. a, vendor's SnLot# into the SnLot#. or pick Sn/Lot Numbers. or generate Sn/Lot#s and exp dates. t docs, test data, into the SnLot#. n be assigned to its parent Serial#*. enter or pick Sn/Lot Numbers. rs that make up a serialized assy.
	Routing Sales Analysis Sales Quote Serial / Lot Tracking User Task Manager & Tickler	New Edit a Ma	er and or Detail SnLot Record Ister and or Detail SnLot Record a Master and or Detail SnLot Record
	Web Orders	Print	Print Serial Lot Number Reports
		<u>R</u> eports	Audit Serial Lot Number Records
		Audit	Index Serial Lot Number Records
nc/MRF	• Versions 8.72G and higher	Index Remove <u>M</u> arked Records Remove over <u>X</u> Years	Remove Deleted SnLot Records Remove Records over X years old
	ersions 8.93 and higher *	Imp <u>o</u> rt —	Import SnLot Records from a .CSV file
permit v	croine e.co and higher	Serial/Lot module settings	(partno,qty,snlotno). Creates SnLot Master and Adjusting records not

If you have the Optional Serial/Lot Number module and the **Serialized Item** (serialitem) check box is checked on the MISC tab of the part's Inventory screen, pc/MRP will display a window allowing you to enter or pick serial numbers when receiving, issuing, receiving back from MFG, or invoicing for this part number.

pc/MRP's optional Serial/Lot Number module will store current on hand quantities of each serial/lot number in its snlot.dbf file. It also keeps records of all transactions adjusting the serial/lot number quantities in its snlotdet.dbf file. Entering invoices (this module refers to these transactions as I type transactions), or issuing parts to manufacturing (S type transactions), will decrease the on hand quantity of the serial/lot number. Entering receivers (R type transactions), receive back completed assemblies (M type transactions) or entering new serial lot numbers (initial, J type transactions) will increase the on hand quantity of the serial/lot number.

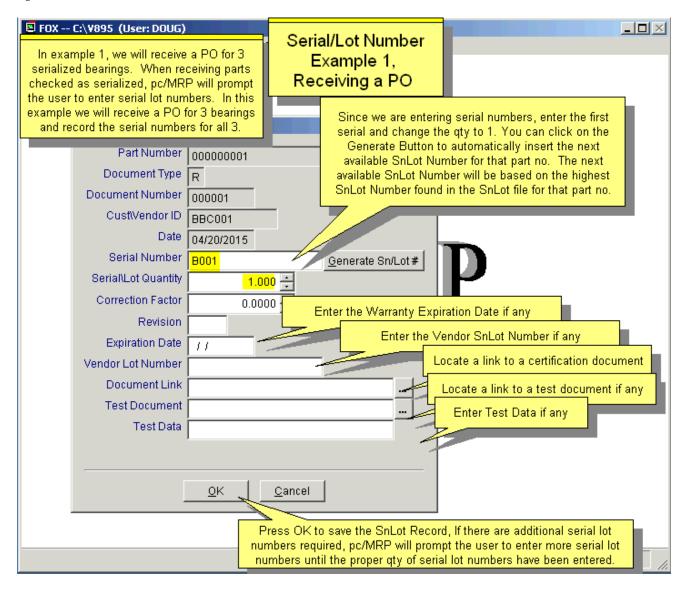
The master snlot.dbf contains one record for every serial/lot number – part number combination, along with its current on hand quantity. The detail snlotdet.dbf contains one record for every transaction that would affect the on hand quantity of a serial/lot number. The file structure for these two databases can be printed/displayed using Settings and Utilities, **Option 39**.



**Sn/Lot Number Generation Type:** Users can configure how pc/MRP generates the next available serial number. Option 1: All serial/lot numbers will be unique, regardless of part number.

Option 2: Serial/lot numbers will only be unique for each part number. This is the default setting, and this is the setting for versions below **8.72G**.

#### **16.10.2 Receiving Parts** (Example 1A on the Online Slide Show)

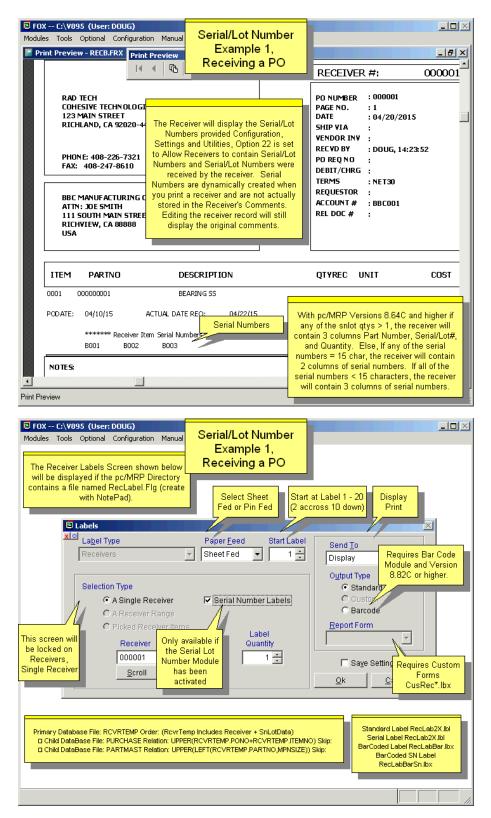


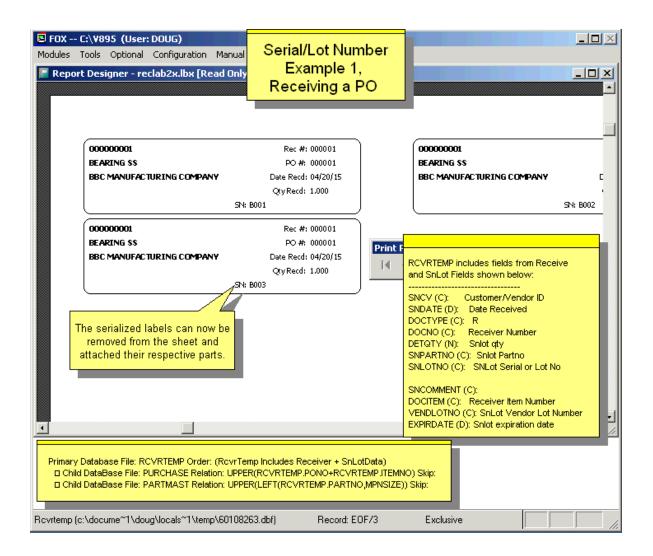
After entering a receiver, pc/MRP will prompt, "Enter a serial/lot number for this part number". If you answer "Y", the screen above will be displayed.

The part number, document type (R for receiver), document number (receiver number), **vendor id** number, date received, and revision level will be inserted automatically. If you are recording lot numbers, enter your lot number, the quantity in the lot, the vendor's lot number, and the expiration date (if any). If you are recording serial numbers, enter your serial number, the quantity as 1, vendor's serial number, and expiration date (if any). If there is more than one lot or serial number, press ok and answer "Y" to enter additional serial or lot numbers. This will create a serial lot number detail record in the snlotdet.dbf with the vendor's id code in the **SNCV** field, **R** (receiver) in the **DOCTYPE** field, and the receiver number in the **DOCNO** field.

#### Printing out Receivers and Labels with Serial Numbers.

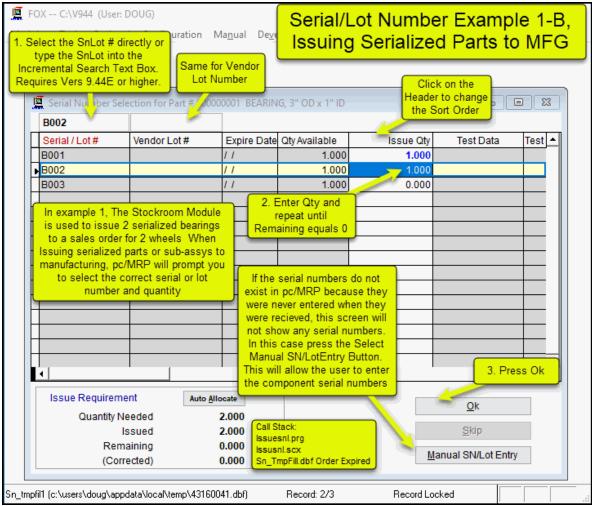
Use **Option 22** to set the receiver to include Serial Numbers as shown on the screen below:





#### **16.10.3 Issuing Parts to Manufacturing** (Example 1B on the Online Slide Show)

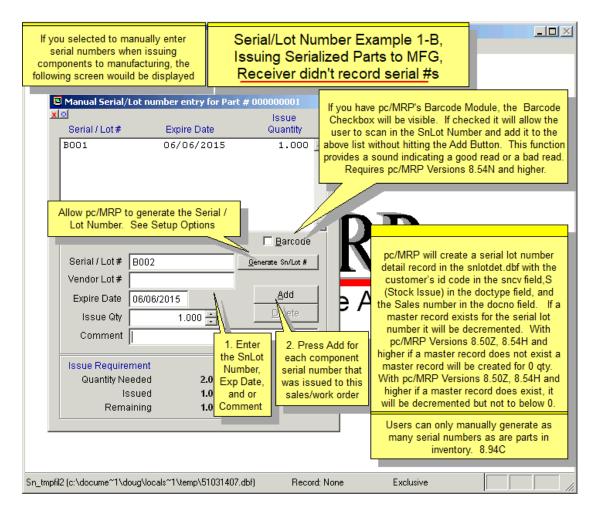
When issuing parts from the stockroom to manufacturing for a sales order, you will be asked if you wish to record serial numbers. If you answer "Yes", a screen displaying the serial/lot numbers available for that part number will allow you to select the serial/lot numbers of the part(s) you are issuing.



Select the serial/lot number and enter the quantity required. Select Manual, to manually enter serial numbers that do not presently exist in pc/MRP. If a serial/lot number is selected that is past its expiration date pc/MRP will display a warning and allow you to deselect or use that serial lot number. This will create a serial/lot number detail record in the snlotdet.dbf with the customer's ID code in the sncv field, S (for Stockroom) in the doctype field, and the sales order number in the docno field. Select Skip, to not issue any serial numbers. If you were issuing a lot number to manufacturing that has a correction factor, you would issue the corrected amount instead of the exact amount required by the BOM. The corrected amount would appear at the bottom of the issue screen. The code for the above screen and correction formula is located in prsndscr.prg. The corrected amount is: (Required qty - Total corrected qty issued)/ (1-(The correction factor/100)).

If you selected to manually enter serial numbers when issuing components to manufacturing (because the serial number was not recorded at the time of receiving), the following screen will be displayed. You will be able to manually enter serial numbers for as many parts as are available to issue.

If the STKLAB.FLG file exists in the PCMRPW folder, pc/MRP will offer to print out labels for the parts just issued. These labels do not contain the serial numbers. Users can print out serialized labels when receiving the parts, as described in Example 1A.



After issuing parts to manufacturing, pc/MRP will offer to include serial lot number Test Data and/or Test Document File Name on the Stock Issue Report.

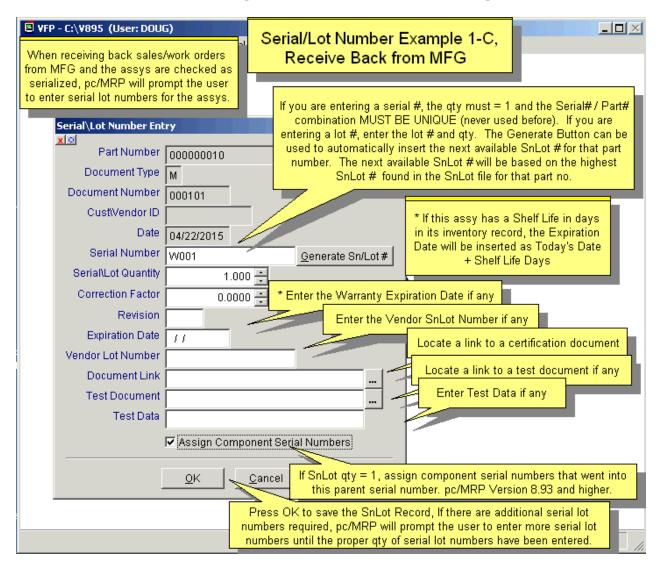
VFP - C:\V895 (User: DOUG) Addules Tools Optional Configuratio Print Preview - CNVSBOM.FRX	Serial/Lot Number Exa Issuing Serialized Par	· · · · · · · · · · · · · · · · · · ·			- 0 × - 8 × -
RAD TECH           BOM NUMBER         :000000000           BOM DESCRIPTION         :WHEEL ASSY           DATE         :04/21/2015 04:23:30 Pk           QTY         :2.0000           SALES/WORK ORDER NO: 000101         STOCK ISSUE REPORT FOR ISSUED P	JTEM NO: 0001	BOM STATUS: MODEL NO:	This is	the PIC list fo	CMIFTR
P/B CTEM BOM/ PART NUMBER	DESCRIPTION	LOCATE	ONDROER	ONHAND	QUANTO
PART DOLL 000000001 BCC1 1.000	EST DAGA/76ST OCCUMENT ATLE NAME BEATING 3" CD r 1" ID		0.000	DODE	2.0
PHRT 1002 00000002	Data for that Doc	orded, Test ument File and Location	0.000	1001.010	80.0

#### **16.10.4 Receiving Back Completed Assemblies from Manufacturing** (Example 1C on the Online Slide Show)

**Note:** If you TEST your assy(s) and perform U Un-Issue stockroom and L Lower Level Replacement Issues BEFORE Receiving the Sales/Work Order assy(s) back from manufacturing, managing serial numbers will be much easier. IE, Once everything has been tested and swapped out, THEN Receive Back From Manufacturing and assign the serial numbers that were actually used to their parent serial numbers.

If you need to swap out parts and serial numbers after the sales order has been received back and invoiced, you must use the Serial Lot Number's Swap function as demonstrated later in Example 2.

If you need to swap out parts and serial numbers after the sales order has been received back, but not invoiced, you must use the Serial Lot Number's Swap function as demonstrated later in Example 3.



After receiving back completed assemblies from manufacturing, pc/MRP will prompt, "Enter a serial/lot number for this part number". If you answer "Y", the above screen will be displayed. Expiration date will be automatically entered if the assembly has a shelf life filled in in Inventory.

pc/MRP allows the user to assign individual child serial numbers to parent serial numbers. For example, this allows pc/MRP to track which bearing went into which bike where as before pc/MRP could only report these 20 bearing were issued to those 10 bikes on this sales order. In the previous versions you would have had to have a sales order with 10 line items qty of 1each to track which 2 bearings went into one particular bike.

## For **reports**, see Section 16.10.9.

VFP - C:\V895 (User: DOUG) Modules Tools Optional Configurati     Assign Sn/Lot N		umber Examp Back from MF		With pc/MRP Versions 8.93 and higher, if you checked, Assign
Parent Serial Number Document Number Document Item Parent Serial/Lot No	000101	Doc Type M	Customer II Dati	Component Serial Numbers, the following screen will allow you to
Parent Seria	l Number Informatio	n Ass	sign Child Ser	rial Numbers
Select Child Part No C 000000001	Imber Child Seri B001		cription 3, 3" OD x 1" II	D
	8002	BEARING	Э, 3" ОD x 1" II	D
serial numb bearing, seria number VVD0 the serial nu sales/work	er. In this example al number B001 that 1. If serialized spok umbers of all the spo order would be displ	ers that went into thi e the child serial num t was issued to a wh kes were issued to th okes that were issue layed and one or mo nis parent serial numl	iber is a eel, serial nis wheel, ed to this re would	2. Press the Done Button. If more than one assy was received back, you will be prompted to assign parent and child serial numbers to that assy as well.
			one	Cancel
Componentsncursor		Record: 1/2	Exclus	

#### **16.10.5 Invoicing** (Example 1D on the Online Slide Show)

When invoicing parts marked as serialized (in the inventory module), you will be asked if you wish to record serial numbers. If you answer "Yes", a screen displaying the serial/lot numbers available for that part number will allow you to invoice the part(s) by serial/lot numbers.

<ul> <li>Serial Number Select</li> <li>Serial / Lot # V</li> <li>W001</li> <li>W002</li> <li>This grid displays a Lot Number Recorr</li> <li>O for this part</li> </ul>	/endor Lot #	000010 Expire Date / /	WHEEL Qty Available 1.000 1.000	Issue Qty 1.000	Test Data	× Test Dog▲
W001 ▶W002 This grid displays a Lot Number Recor		11	1.000	1.000	Test Data	Test Doc 🔺
▶W002 This grid displays a Lot Number Recor						
This grid displays a		, ,	1.000			
Issue Requirement Quantity Need Issue Remain	rds with a qty > t number.	If the a not re we manual	ect the parent s s being invoice for this sales of g a qty of 1 or r assy serial nun ecorded when t re received bac facturing, sele nanually enter t al numbers tha ently exist in p	d and rder by more heassys ck from ct Manual the assy td o not	2 OK Skip	Press Ok

Select the serial/lot number and enter the quantity required. If a serial/lot number is selected that is past its expiration date pc/MRP will display a warning and allow you to deselect that serial lot number or use it anyway.

Select **Skip** to not issue any serial numbers if you do not have any available serial number for this part and need to enter them manually.

#### Manually entering serial/lot numbers when invoicing.

E VFP - C:\V855 (User:	DOUG)		
Modules Tools Optional	If you select serial numb	ted to manually enter ers for an invoice the reen will be displayed.	
Serial / Lot #	/Lot number entry for Part Expire Date 02/02/2011 02/02/2011	USSUE USE Quantity a	u have pc/MRP's Barcode Module, the Barcode ockbox will be visible. If checked it will allow the tr to scan in the SnLot Number and add it to the bove list without hitting the Add Button. This tion provides a sound indicating a good read or a d read. Requires pc/MRP Versions 8.54N and higher.
		Enter the SnLo Number, Exp Da Qty and Press A	te, number it will be decremented. With
			does exist, it will be decremented but not to below 0.

Select Manual to manually enter serial numbers that do not presently exist in pc/MRP.

This will create a serial lot number detail record in the snlotdet.dbf with the customer's id code in the **sncv** field, I (Invoice) in the **doctype** field, and the Invoice number in the **docno** field. If a master record exists for the serial lot number it will be decremented.

If a master record does not exist a master record will be created for 0 qty. If a master record does exist, it will be decremented but not to below 0.

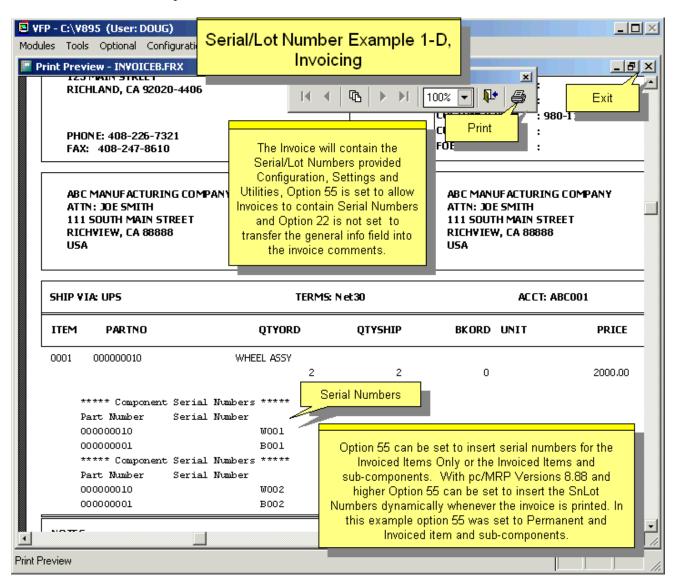
#### Printing out Invoices with Serial Numbers.

The invoice can be set to include Serial Numbers as shown on the screen below:

pc/MRP will print out all serial/lot numbers issued to this sales order and all serial lot numbers created when entering this invoice in the invoice's comment field provided:

**Option 22** in the configuration settings and utilities menu is not set to automatically insert the inventory memo field into the invoice.

**Option 55** in the configuration settings and utilities menu has been set to import "Invoiced items only" or "Invoiced items and sub-components".



#### 16.10.6 Special Cases – Step-by-Step Examples

See the online slide shows at <u>http://www.pcmrp.com/mrp101/snlot101index.htm</u> for detailed examples of the following situations.

Example 2 - Swapping Out a Serialized Part on an Invoiced Assy

Example 3 - Swapping Out a Serialized Part on an Assy received back from mfg but not invoiced

Example 4a - Assigning serialized parts to an Assy that was Received Back without assignment

- Example 4b Assigning serialized parts to an Assy that was Invoiced without assignment
- Example 5 Receive back unused serialized parts
- Example 6 Issue Additional serialized parts
- Example 7 Negative Adjustment to scrap a serialized part
- Example 8 Pick Shortages for serialized parts
- Example 9 Issuing Work Orders with serialized parts
- Example 10 Swapping Out a Serialized Sub-assy on an Invoiced Assy
- Example 11a Option T-Returning all parts and assys Issued to MFG and
- Example 11b Option T-Returning all parts and assys Received Back from MFG
- Example 12 Manually entering Detail and Master Serial/Lot Number Records
- Example 13 Manually entering Detail and editing Master Serial/Lot Number Records

#### **16.10.7 Printing Labels**

Select Modules, Inventory, Labels, Label Type of 'Parts'.

VFP - C:\V852 (User: DOUG)     Medules Table Optimum Configuration Manual Developer Hale	<u>_</u> DX
Modules Tools Optional Configuration Manual Developer Help         Image: Start Label         Image: Scope         Image: Scope <tr< th=""><th>Send To Print Output Type © Standard © Custom © Barcode Report Form Saye Settings Ok © Cancel 8.52A and higher contain t labels for every serial lot ber combination from the at has a quantity &gt; 0. You</th></tr<>	Send To Print Output Type © Standard © Custom © Barcode Report Form Saye Settings Ok © Cancel 8.52A and higher contain t labels for every serial lot ber combination from the at has a quantity > 0. You
would select Modul	at has a quantity > U. You es, Inventory, Labels, and Type Parts.

#### 16.10.8 Edit, View, Scroll and Query Serial/Lot Tracking Records

This option allows users to scroll, edit, delete, undelete, or run queries against Serial/Lot Tracking records.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an Indexed Search: select the Indexed Search tab Select the desired **Sort Order:** Lot/Serial Number, Part Number, Customer/Vendor #, Document #, and Vendor Lot Number Enter the applicable data in the **Begin Scrolling At:** field Select the desired Action: **View** or **Edit** 

Press Search

pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press Ok to proceed to the edit screen for that record.

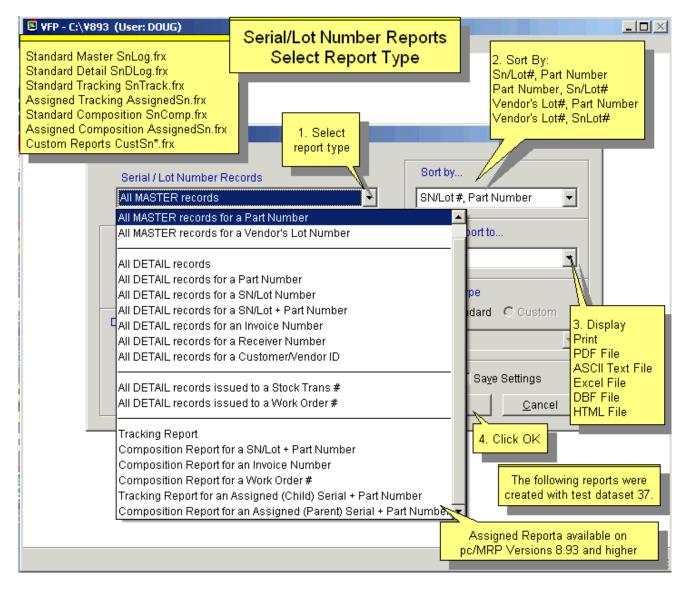
Selecting to run a Queried Search allows users to build, run, save, and load queries for the Serial/Lot Tracking tables. For further details, see Chapter 15.14 in this Manual.

Every field within the Serial/Lot Tracking tables is editable. Users must understand several key things before editing Serial/Lot Tracking data.

**Note:** If the quantity field is edited in a Serial/Lot Tracking record, inventory quantities are not automatically changed. Users would have to also manually change the inventory quantity if applicable.

#### 16.10.9 Reports

For a detailed online slide show on reports, see <u>http://www.pcmrp.com/mrp101/snreportmenu.htm</u>



#### 16.10.9.1 Master and Detail Reports

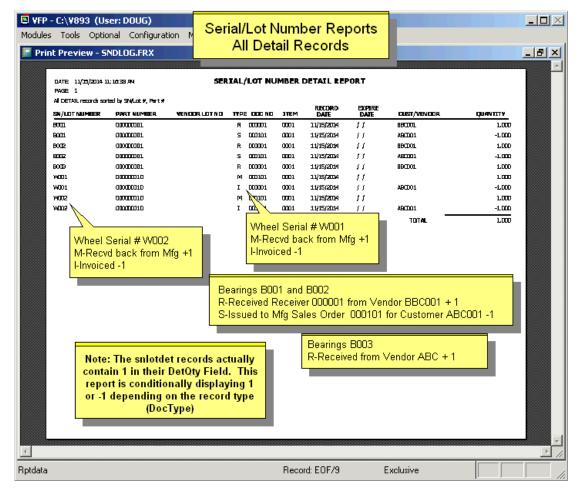
The are two types of basic SN/Lot number reports in pc/MRP's optional Serial/Lot Number module, Master Reports (keeps total quantity on hand for each serial/lot number) and Detail Reports (prints/displays transactions that adjusted the on hand quantity of the serial/lot number on hand quantity).

The Detail Reports list the sn/lot#, part#, document # (sales order, receiver, etc), document date, customer/vendor, id, document, quantity, and type of activity (R = receiver, S = stockroom issue, M = receive back completed assembly from manufacturing, I = invoice, J = SN/L # manual adjusting and or and initial entries).

The two images below show a Master and the Detail Report, respectively.

The Serial Lot Number Report can filtered to include only records that are "Within an Expiration or Document Date Range". You can also check to "Only show items currently in inventory". These options are hidden behind the Drop Down List Box in the above screen shot.

VFP - C:\V893 (User: D) Modules Tools Optional Print Preview - SNLOG	Configuration M Se	All Master Rec			
DATE: 11/15/2014 10: PAGE: 1 All MASTER records sort <u>BN/LOT NUMBER</u> BOO1 BOO2 BOO3 WO01 WO02		RIAL/LOT NUMBER	MASTER REPORT	QUANTITY 0.000 0.000 0.000 0.000 1.000	
Rptdata		Record: El	DF/5 Exclusive		



#### 16.10.9.2 Advanced Serial/Lot Number Reports

To track where a serial lot number exist (in Inventory, in WIP, or invoiced and sent to your Customer), select the **Tracking Report**.

This is a standard tracking report for Bearing B001. The Tracking report does not use assigned serial numbers. The tracking report determines that bearing B001 was issued to sales order 000101 which built 2 wheels W001 and W002. Therefore Bearing B001 is in either Wheel W001 or Wheel W002. Both wheels were invoiced to the customer listed on Invoice 000001. Also see the more advanced assigned tracking report.

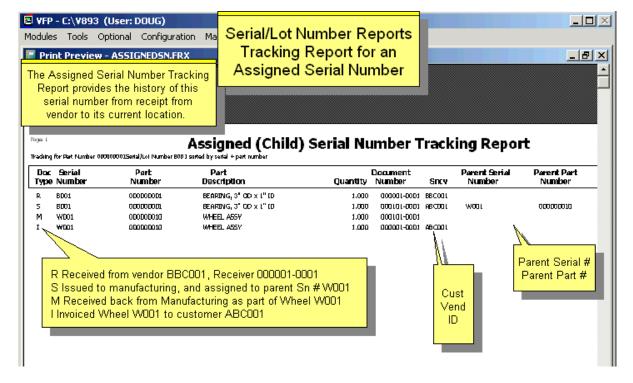
To see what serial/lot numbers went into a finished assembly, select a **Composition Report** for a SN/Lot # + Part Number combination, for an Invoice, or for a Work Order.

This is a standard composition report for Wheel W001. The standard composition report does not use assigned serial numbers. The standard composition determines that bearings B001 and B002 was issued to sales order 000101 for 2 wheels W001 and W002. Since this report does not check assignments it shows that Wheel W001 could contain Bearing B001 or B002. Also see the more advanced assigned composition report.

#### **Tracking Report**

<ul> <li>Serial/Lot Number Reports</li> <li>Serial / Lot Number Records</li> <li>Tracking Report</li> <li>Send Report to</li> </ul>	VFP - C:\V872 (User: RON) Modules Tools Optional Configuration	Serial Lot Number Reports
SN/Lot Number RLN-101002 Pat Number CHEM0001 Date Range All Records From: To: Expiration Date 10/12/2012 11/12/2012 Occument Date // 10/12/2012 Ock Qancel Press the OK Key	Serial / Lot Number F Tracking Report	ecords  Soft by Soft by Soft by Select Display, Print, Excel, ACII, PDF, or DBF  Send Report to Display  EM0001  Scroll and select the Serial or Lot Number and Part Number combination.  From: To: 10/12/2012 11/12/2012 Qk Cancel Press the OK Key

int Drouio	v - SNTRACK.FRX			_
Invento				
Туре	Serial/Lot #	Part #	Part Decoription	Quantity
Invencory	B1-011-01	BIRE0001	Bycycle - Grand Touring	6.000
Inventory	B1-016-06	BIKE0001	Bycycle - Grand Touring	4.000
Invencory	B2-012-02	BIRE0002	Bycycle	
Inventory	B2-017-07	BIKE0002		r the raw chemical itself along with as
Invencory		BIRE0003		that contain the chemical from that lo
Inventory	B3-018-08	BIKE0003		η your inventory is listed in this sectio
Invencory	B4-014-04	BIRE0004	Bicycle	r your inventory is listed in this sectio
Inventocy	B4-019-09	BIRECOO4	Bicycle -	
-	R1-045-03	RUBBOOOL	Rubber el alx 1	10.000
Inventory		CHENCOOL	Ray Chuncal	5905.000
Inventory	51-029-04	SEAT0001	Bicycle Seet	10.000
Inventocy		TIREOOO1	Tire - 24"	10.000
Inventory	W1-031-05	VHERODO 1	Wheel - 24"	10.000
Inventory	N9-095-10	WHEE0003	Wheel - 24" Plated	20.000
-	N3-035-11	VHEE0003	Wheel - 24" Plated	10.000
	03-030-11	0HEBOOOG	OHEET - 24" FIRCED	10.000
WILP				
Type	Serial/Lot #	Part 🕈	Part Description	Work Order #
QUIP	R1-048-01	RUBBOOO1	Rubber Pellets - Mix 1	000029-0000
0(IB	R1-043-01	RUBBOOOl	Rubber I	
WI6	R1-043-01	RUBBOOO1		r the raw chemical itself along with as
<b>UIP</b>	R1-049-01	RUBBOOO1	Rubber 1 and subassys t	that contain the chemical from that lo
0(IP	RLN-101002	CHEN0001	Rav Cher number that is o	n your mfg floor is listed in this sectio
0.16	RLN-101002	CHERODOL	Rav Cher	
WIP	S1-026-01	SEAT0001	Bicycle S	
UIP 	T1-097-01	TIREOOO1	Tire - 2	000031-0000
WIP 	T1-037-01	TIRECOO1	Tire 2/	000032-0000
WIP	T1-037-01	TIRECOOL	Tire - 2 The lot number fo	r the raw chemical itself along with as
WI6 WI6	W1-027-02	VHEE0001		that contain the chemical from that lo
0.16 0.16	101-027-02 101-027-02	VHEE0001 VHEE0001		t your customers is listed in this secti
		OURROOO1	oneer - number that is at	i your customers is listed in this sect
Invoic	ə			
туре	Serial/Lot #	Part #	Part	Invoice #
Inunice	B1-011-01	BIRFOOOI	Byryrif - Grand Touring	00001-0001



If an Assigned tracking report is run for a serial number for a finished top assembly that was manufactured and invoiced, the Assigned Sn/Lot Tracking Report will not show any records because top level assys are not assigned to parent serial numbers. The Standard Tracking Report (previous section) will show the invoice detail record.

# **Composition Report**

Modules Tools	72 (User: RON) Optional Confi Serial/Lot Nur		Reports
	Serial / Lot	Number Records n Report for a SN/Lot + Part Number mber B3-013-03 mber BIKE0003 ords From: To: on Date 10/12/2012 11/12/2012	Send Report to Display Scroll and select the Serial or Lot Number and Part Number combination.
Digi: Part		SN/Lot Composit	
	Part #	Part Description	Serial/Lot # Work Order #
	<b>R</b> V880001	Rubber Pellece - Nix i	R1-043-01 000037-00W0
	CHENODO1	Raw Chemical Tice - 24"	RLN-101002 000043-00 <b>V</b> O T1-037-01 000027-00 <b>V</b> O
	I TIRBOOOI	Tice - 24" Wheel - 24"	T1-037-01 000027-00WO T1-027-02 000013-00WO
		and lot num	n report displays all serial pers that went into this I all its sub assemblies.

This is an assigned composition report for Wheel W0001. It shows that Bearing 001 was assigned to Wheel 001.

odules	Tools Opt	l <b>ser: DOUG)</b> ional Configurati					_	
Print	Preview -	ASSIGNEDSN.FR)	Composition F Assigned Se				_	8
								-
Page 1		lå et Føresbar 1070 i	Assigned (Parent)	Serial Nu	mber C	Compositi	ion Report	
Part Numi	ber occorro to Sel Serial Number	Mat Number WOOL Part Number	Assigned (Parent)	Serial Nu Quantity	Document Number	Compositi Parent Serial Number	ion Report	

#### 16.10.10 Audit Serial/Lot Numbers

The purpose of Serial Lot Number Audit report is to compare the quantities of the part numbers and serial/lot numbers based on the serial/lot number detail database file, the serial/lot number master database file, and the inventory file.

The Audit Serial Number option creates a temporary database file containing a record for every part and the quantity found in the master serial/lot database file. It then goes through each serial/lot number detail record and decreases the detail quantity field for each "I" (Invoice) or "S" (Stockroom) issue record and it will add the quantity for all other types of transactions. A negative adjustment record will decrease the detail quantity field. It then sets a one-to-one relationship into the inventory report to print out the standard (auditsn.frx) or custom (cauditsn.frx) report. The quantity in the inventory column is the sum of the quantity in stores (onhand), and area2 through area20 (area2qty-area20qty).

STREES 1	IRP for Windows - Versio Tools Optional Config	Serial Number qty is w	rong					
📕 Prin	t Preview - AUDITSN.FRX		× 6		<u>_</u> _×			
	Seri	al Lot Number Audit	Report	09/0: 15:40	1/2011			
c.	Part Description	Sn/Lot No	Qty in Sn/Lot Detail	Qty in Sn/Lot Master	Qty in Part Master			
901 901 901	BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID	124	1.000 1.000 1.000	1.000 1.000 1.000				
	In this case the snlot detail and master file shows 3 serial numbers for part number 000000001 and the inventory modules shows a qty of 4. If there are only 3 serial numbers for this part, use the stockroom to adjust the qty down. Select No when asked to track serial/lot numbers. If there are four serial numbers, go to the serial lot number module and add a new serial number, select both master and detail.							
•					•			
Auditsn (c	::\docume~1\doug\locals~1\ten	np\56814915.dbf) Record: E0	0F/3 Exclusi	ve 📃	NUM //			

	nt Preview - AUDITSN.FRX	t Preview ↓ □ □ ↓ ↓ ↓ □ 75%	• • 6		
	Serial	Lot Number Audit	Report	09/01 16:01	1/2011 5:32
	Part Description	5n/Lot No	Qty in Sn/Lot Detail	Qty in Sn/Lot Master	Qty in Part Master
L	BELRING, 3" OD x 1" ID BELRING, 3" OD x 1" ID BELRING, 3" OD x 1" ID	123 124 125	1.000 1.000 5.000	1.000 1.000 6.000	
		Totals -	8.000	, 8.000	10.000
	number 125 and is only a qty of edit the part stockroom to number. If lot for 2 and edi	snlot detail and master file the inventory modules sho for this part number, Go t number and decrement the adjust the qty down as that number 125 has 8 parts cre t the master record and set number enter a new lot num and detail.	ws a qty of 10. If th o the inventory modu qty. Do not use the will ask for a serial lo ate a new detail reco it to 8. If there is an	ere le, ot rd	

pc/MRP for Windows - Version <u>M</u> odules <u>T</u> ools <u>Optional</u> <u>C</u> onfigurat			
Adding a Sn/Lot Market Sn/L	faster an 1. Enter the		
	Quantity, 1 for a Serial Number,		
Part Number Description	000000 multiple for a Lot BEARII	WIDE SS	Enter the Vendor Serial Lot Number if any.
Serial/Lot Number	1234	Vendor Lot Number	
Quantity Correction Factor	0.0000	Expire Date / / Revision ABC	Enter Warranty
Related Document Item Number		Record Date 03/12/200	Expiration Date if any.
Document Type		Customer/Vendo	Certification Document
Document Link	Certification.doc	View Documen	
Test Document	Testresults.doc	View Documen	
Test Data	PH = 8.5, Nitrides = 70 ppm	Location of Te	View Test Document (8.25) st Documents (8.25A)
	Test Results (if app Version 8.25A and	higher	<u>C</u> ancel
			ss Ok to save Master nd or Detail Record.
Partmast (c:\pcmrpw825\partmast.dbf)	Re	ecord: 1/11 Record Unloc	ked NUM

You would follow this method when <u>starting out</u> with the optional Serial/Lot Number module. You would have to enter serial/lot data for your <u>existing parts in inventory</u>. After the initial entries, you will use receivers and invoices to update your serial/lot data, along with updating the inventory quantities of those serialized parts and assemblies.

You can use this option to create serial/lot numbers on the fly. The Enter Serial/Lot Number option will prompt, "Enter a Master record only, Detail record only, or Both". If you wish to create a record in the master data base file, and no initial quantity, select Master record only. If you wish to enter a transaction record, select Detail only. A master record contains the total on hand quantity for that serial/lot number. A transaction record contains the transaction record adjusting the on hand quantity of that serial number.

In most cases you will want to enter a serial number and initial quantity for a part or assembly, 'Both Master and Detail'. pc/MRP will create a record of that part and serial number in the master file making it available for invoicing or issuing. It will also create a detail record of how and when this serial number was created.

Entering both a master record and a detail transaction record will prompt for the part number and then display the next available serial/lot number. pc/MRP will automatically create the next available 15-character serial/lot number or users can type in their own serial/lot number. However, if users choose to enter alphanumeric characters pc/MRP will no longer be able to automatically generate the next available serial/lot number. Users consequently would be required to manually enter unique serial/lot numbers.

**If you were to enter historical Serial/Lot records:** You would first enter a manual record by selecting Optional, Serial/Lot Tracking, New, and Both Master & Detail; enter the serial number and a qty of 1 (or invoice qty). Repeat for each serial number. This will create both a Master and Detail record putting the serial number in stock. To create a historical Invoice record, select Optional, Serial/Lot Tracking, New, and Detail Only. Enter the same serial# and a qty of 1 (or invoice qty), Document Type of 'Invoice', and enter the invoice# in the Related Document field. Now you must edit the Master record for the serial number to a quantity of 0. Repeat for each historical serial number.

When this record is entered, pc/MRP will create a master record consisting of the Lot/Serial No, Partno, and Quantity. It will also create a detail record consisting of the fields shown below:

The **Part Number** field (partno) contains the part number of the for that serial/lot number.

The Serial/Lot Number field (snlotno) contains your serial/lot number.

The Quantity field (detqty) contains the quantity issued, invoiced, adjusted, or received.

The **Revision** field (revision) contains the revision level of that part number when the serial/lot number was received or created.

The **Correction Factor** was created for Inhale Therapeutics. It was designed to automatically adjust stock room BOM issue quantities based on concentration of serialized lot numbers. Unless you are Inhale Therapeutics, leave the correction factor setting at 0. If a chemical were 90% pure, you would enter 10 as the correction factor. If a chemical were 95% pure, you would enter 5 as the correction factor. If you were issuing a lot number to manufacturing that has a correction factor, you would issue the corrected amount instead of the exact amount required by the BOM. The corrected amount would appear at the bottom of the issue screen. The formula used when issuing compounds to manufacturing is as follows:

 $Sn \operatorname{Re} t = Sn \operatorname{Re} t + Sn \operatorname{Re} t (-1 * (QtyToIssue - (QtyToIssue / (1 - CorrectionFactor / 100)))))$ 

With this formula, if a BOM required 100 lb of a compound, but the compound was 90% pure (CorrectionFactor = 10%), an extra 11.111 lb will be issued. The "SaRet +" is in the formula in case the compound is from multiple lots with different correction factors. If you wish to have correction factors taken into account when printing out generic pick lists from the BOM module, call Software Arts, Inc. to create a special flag file.

The **Document Number** field contains the related document number for this detail record. It would contain the receiver number if this record were created when this serial/lot number was received. It would contain the sales order number if this record were created when this serial/lot number was issued to MFG. It would contain the invoice number if this record were created when this serial/lot number was invoiced. It would be blank if this record was created manually.

The **Doc Type** field (doctype) contains the document type; J type in this case indicates an adjusting entry. Other Doc Types include, I for Invoice, R for Receiver, M for Receive back completed assemblies from manufacturing, and S for an issued to manufacturing stock transaction.

The **Cust/Vendor** field (sncv) contains the customer/vendor's ID code.

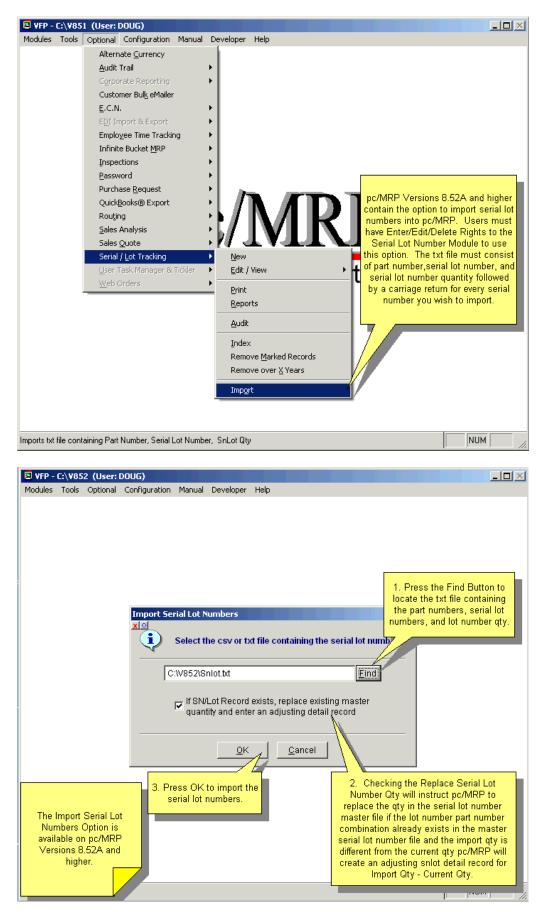
The **Date** field contains the date of the transaction.

The **Vendor Lot Number** field (vendlotno) contains the vendor's serial/lot number, which may or may not be the same as your serial/lot number.

The **Expiration Date** field (expirdate) contains the date when this serial/lot number is set to expire. Leave this field blank if there is no expiration date.

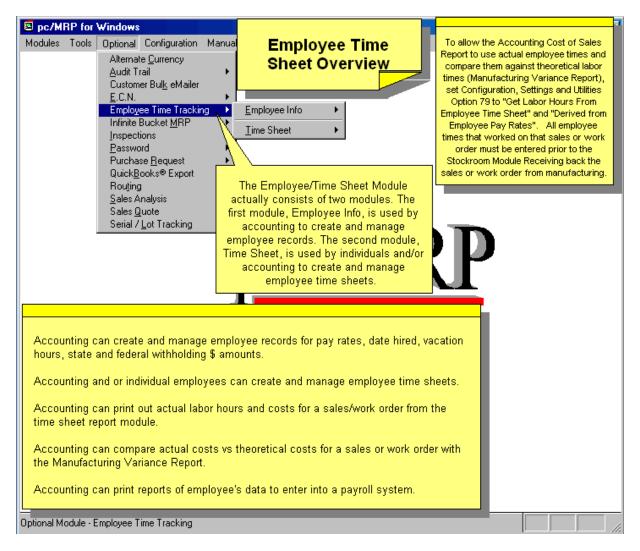
The **Documentation Link** contains the location and name of any document related to this serial/lot number. For example, the serial or lot number certification document could be stored here. pc/MRP V9.50 Page 813

#### Importing Serial/Lot numbers from a .TXT or .CSV file.



**Note:** The .TXT or .CSV file should not have a header row of column names. Page 814

#### 16.11.1 Overview



The Employee Time Tracking Module shown above actually consists of two modules. The first module, Employee Info, is used by Accounting to create and manage employee records. The second module, Time Sheet, is used by individuals and/or Accounting to create and manage employee time sheets. An online slideshow is located here: <a href="http://www.pcmrp.com/mrp101/emptimeoverview.htm">http://www.pcmrp.com/mrp101/emptimeoverview.htm</a>

Configuration, Settings and Utilities, **Option 79** has to be set to "Get Labor Hours from Employee Time Sheet" and "Derived from Employee Pay Rates". This will allow Accounting Cost of Sales Report to use actual employee times and compare them against theoretical labor times (Manufacturing Variance Report).

**Please note** that if you have the Optional Password module, only users with rights to pc/MRP's Accounting module <u>will be able to access</u> the Employee Time Tracking Module (except users entering their own times).

#### **16.11.2 Employee Information Module**

	r Windows Optional <u>C</u> onfiguration	n Manual	
₫nomez Tr	Alternate Currency Audit Trail Customer Bulk eMailer E.C.N. Employee Time Track Infinite Bucket MRP Inspections Password Purchase Bequest QuickBooks Export Routing Sales Analysis Sales Quote Serial / Lot Tracking	r •	New Edit / View Beports Index Remove Marked Records Settings

The Employee Information Module shown above allows users with accounting rights to create new employee records, edit/view employee records, print out/display employee reports, index the employee data base file, remove employee records marked for deletion and create custom fields (settings) for employee records. If pc/MRP's Optional Password Module has been activated, only users with accounting rights will be allowed into the Employee Information Module.

#### 16.11.2.1 Enter a New Employee Record

Selecting Optional, Employee Time Tracking, Employee Information, and New will allow users with accounting enter/edit and higher rights in the password module to enter new employee records as shown below.

The top row of fields contains the primary key fields for an employee record. The **Employee ID** field is automatically filled with the next available employee number whenever a new employee record is created. The Employee ID field is a six-character field filled with leading zeros that can only be edited during the initial entry.

The **General Tab** fields contain address, phone and job information. Six user-defined fields can be renamed using the Settings option in the Employee Menu. In the example below, we have named the first user defined field "Health Plan", which would be used to store the name of the health plan the user selected. The comment field can store an unlimited amount of information pertaining to the employee.

Dev MRP for Window Modules Tools Opti	ws - Version 9.40Q (Use ional <u>C</u> onfiguration	Employ Sheet I	ee Time Module	ļ	- 0	×
Employe 000001	Mr 🗸 Do	st Name n	Initial Last Na S Smith		SSN 222-99-3333	
Gi Address1 Address2 City Zip Phone Phone2	San Jose 95049 407-333-4444	Pay The General Tab fi ontain address, p and job informati State C y Ext Ext Ext Ext Ext	Job Class	Engineer dsmith@gmail.co Wage <mark>\</mark> Hire		)
[Un-Defini [Un-Defini [Un-Defini [Un-Defini [Un-Defini [Un-Defini	ed] There a ed] fields ti ed] using ed] the a ed] have n	are six user-define nat can be rename the Settings option Employee Menu. I bove example we amed the first use ed field. "Health	d rd n	southern division The comment f an unlimited information per emplo	ield can store amount of taining to the	
General Comments or Notes	Delete Plan used to the he	', which would be o store the name o ealth plan the user selected		<u>Q</u> k	<u>C</u> ancel	

The **Pay Tab** screen contains fields for Pay Period, Payroll Chart of Account Numbers, Pay Description, and Pay Rates to be used for deductions and additions on that employee's payroll checks. It is important for you to enter every employee's General Hourly Rate if you would like pc/MRP to track labor cost. The ellipsis button to the right of GL Chart of Account # text boxes allow the user to browse and select a payroll chart of account number from pc/MRP's Chart of Accounts data base file. User must have Accounting Delete Rights to view/edit this page (Version 9.30B or Higher).

Employee Information	(Edit Mode)				_ 🗆 ×
Employee ID Salute	First Name Don	Initia S	al Last Name Smith		3SN 888-88-8888
General	Pay	Та	ах	Vacation / Sid	ck Time
Familian		GL Account#	Description		Rate
Earning		22100000	General hou	urly rate	18.00
Pay Period					0.00
Bi-Weekly	-				0.00
					0.00
		<u> </u>			0.00
	GL Account#	Description		Amount	Limit
Addition,	·			0.00	0.00
Deduction, and	·			0.00	0.00
Company	·			0.00	0.00
Contribution				0.00	0.00
				0.00	0.00
Delete				<u>0</u> k	<u>C</u> ancel

The **Tax Tab** screen contains fields for federal, state, and local allowances (number of exemptions declared on the employee's W4 form) and any extra withholding requested per pay period. User must have Accounting Delete Rights to view/edit this page (Version 9.30B or Higher).

Employee Information -	(Edit Mode)				_ 🗆 🗵
Employee ID Salute	First Name Don	Initia S	I Last Name Smith		3SN 888-88-8888
General	Pay		ix 🔰	Vacation / Si	ck Time
Earning		GL Account#	Description		Rate
Larning		22100000	General hourly	rate	18.00
Pay Period					0.00
Bi-Weekly	-				0.00
					0.00
					0.00
	GL Account#	Description		Amount	Limit
Addition,				0.00	0.00
Deduction, and				0.00	0.00
Company				0.00	0.00
Contribution				0.00	0.00
				0.00	0.00
				<u>0</u> k	<u>C</u> ancel

🗧 Employee	Information	(New Employee Entry)				_	×
Employee   000016	D Salute Mr 💌	First Name Don	Initia S	al Last N Smith	lame	SSN 888-88-8888	в
Gen	eral	Pay	Τa	ах	Vacation /	Sick Time	
Federal	Status		•		Extra Withholding	0.00	5
	🗖 Social Sec	urity 🗖 FUTA	ΠM	ledicare	Allowances	0	
State	State Worked	<b>•</b>	∏ F	UI	Extra Withholding	0.0	0
	State Lived	<b>•</b>	⊟ s	DI	Allowances	0	
	Status		•		Other Deductions	0.0	0
Local	Status		<b>•</b>		Extra Withholding	0.0	0
		Single Married			Allowances	0	
Other		Married (One Income) Married (Two Income) Head of Household		🗖 Defer	red		
Delete		Don't Withhold			<u>O</u> k	<u>C</u> ancel	

## The Vacation/Sick Time Tab screen contains fields for accrued and used hours for vacation and sick time.

Employee Information	(New Employee E	ntry)		_ 🗆 ×	
Employee ID Salute 000016 Mr	First Name Don	Initial S	Last Name Smith	SSN 888-88-8888	
General	Pay	Тах	Vacation /	Sick Time	
Vacation					
Hours Accrued	0.00 Accural	Туре	Hours Accrued per Per	riod 0.00	
Hours Used	0.00 • Per P	ay Period	Yearly Vacation Ho	urs 0.00	
Hours un-Used	0.00 C Begin	nning Of Year	Reset at Beginning of Year		
Sick Hours Accrued Hours Used Hours un-Used		Type ay Period ming Of Year	Hours Accrued per Per Yearly Sick Ho	urs 0.00	
Delete			<u>O</u> k	<u>C</u> ancel	

#### 16.11.2.2 Edit/View (Scroll/Delete/Undelete Employee Information)

This option allows users to scroll, edit, delete, undelete or run queries against Employee Information records.

Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an **Indexed Search**:

- Select the Indexed Search tab
- Desired Sort Order, Employee Number and Name
- Enter the applicable data in the **Begin Scrolling At:** field
- Select the desired action: View or Edit
- Press Search

pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press **Ok** to proceed to the edit screen for that record.

1.000	RP for Windows	Configuration Manua	I Developer Hel	P				_ 🗆 🛛
modules		soninguration manac		P				
	Employee	Database						
		Indexed Search (	Fastest)		Que	ried Search		
	Save Setti		<u>i</u> er ———		_ Include -			
		Name		•	No Selecti	ions	<u> </u>	
	Go <u>T</u> op	Begin S	crolling <u>A</u> t: 1	Enter the	e last name of	the employee	2. Press	Search
	Go <u>B</u> otto	m Smith				Searc <u>h</u>		
	EMPID	LASTNAME	FIRSTNAM	1E	JOBTITLE		<u> </u>	
	000001	Smith	Don		Engineer			
		3. Select t	he employee					
		e employee is to l nter his own time s						
	Emp	loyee ID must als	o exist in the				~	
	n n	sword module. If nodule does not c	ontain the					
		oloyees ID, only a allowed to enter th			<u>O</u> k	<u>C</u> ance	ı	
		hours.				4. Press	the OK	
List of appli	icable records							

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the Employee Information table. For further details, see Chapter 15.14.

#### 16.11.2.3 Print/Display Employee Records

		Sort by:
J	YEE LIST	
	'EE LIST LOYEE PROFILE	Send report to:
		O Display
		C Print
Range:	C All Records	C ASCII Text file
	Entered date range	C Excel file
	From:         To:           4 /20/01         4 /20/01	O DBF file
	, _	Report type:
Include:	Active and Inactive	Standard C Custom
	C Active only	-
	C Inactive	

Selecting **Reports** from the employee menu will allow you to print out the following reports:

- All Employee List (emplog.frx, employee.dbf)
- An Employee Profile (empfrm.frx, employee.dbf)

The report can be sent to Display, Print, PDF File, ASCII Text file, Excel file, DBF file, HTML file.

#### **16.11.2.4 Employee Records Settings**

Selecting Settings from the employee menu will allow you to name 1-6 user-defined fields in the employee data entry screen.

#### 16.11.2.5 Employee Module Technical Information

- Formset: Employee.scx
- Free Table: Employee.dbf
- Indexes File: Employee.cdx
- Tags:
  - BYEMPID=UPPER(EMPID)
  - o BYNAME=UPPER(LASTNAME + FIRSTNAME)
  - o BYHIRDT=DTOS(HIRED)

#### 16.11.3 Time Sheet Module

The Time Sheet Module allows qualified users to enter, edit and print out employee time sheet records. If the Optional Password Module is active, only users with accounting rights are allowed into the Time Sheet Module. In addition, an employee is allowed to enter a time sheet record for himself, provided his employee ID number has been entered into the password module. The employee will need to use the same ID number when entering a time sheet record for themselves.

Note: Employees with accounting rights can enter employee times for any employee.

#### 16.11.3.1 Enter/Edit/Delete Time Sheet Record

Clicking on the **New/Edit/Delete** button will bring up the Employee Scroll Screen. After you have selected the employee, pc/MRP will display the Time Sheet Scroll Screen shown below. The **Display** radio buttons allow the user to control which Time Sheet Records for the selected employee will be displayed. The user can then select the time sheet record he or she wishes to edit or delete. The **One Day** radio button and the current date are this screen's default settings.

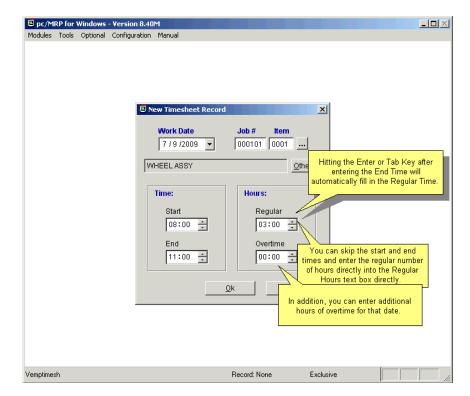
If the employee is allowed to enter his/her own time sheets, the Employer ID must also exist in the Password Module. If the Password Module does not contain the employee's ID, only Accounting will be allowed to enter the employee's hours.

The Display radio buttons allow the user to control which time sheet records for the selected employee will be displayed. The user can then select the time sheet record that he or she wishes to edit or delete.

imesheet Employee: ID #: 000014 Name: Don S Smith				Display: © One Da © One We		One Month Date Range	
Date	Job#	Item	Start Time	Stop Time	Reg Hours	O.T. Hours	
		it	To	ital Reg / OT:	00:00	00:00	

#### 16.11.3.2 Enter a New Time Sheet Record

To enter a new time sheet record for a specified day, click on the **New** button. The new time sheet data entry screen shown below will pop up.



Select the **Work Date** that the job was worked on. If you click on the down arrow in the Work Date drop down list box, a calendar will be displayed allowing you to select any date available. The **Job#** and **Item** represent the pc/MRP sales/work order and item number or a Job Code. A valid job code or SO/WO number has to be entered. pc/MRP won't accept this field left blank (Versions **8.83C** and below would allow this field as blank). The sales/work order number can be looked up via the ellipsis button to the right of the Job # Item text boxes. The 'Other' text field shows the description of the line item selected.

Clicking on the 'Other' button allows you to replace the work/sales order with a list of predefined labor codes previously defined via the menu option for TIME SHEET, DEFAULT SETTINGS as shown in 16.11.2.12.

New Timesh Work Dat 7 / 9 /20	te J 109 <b>-</b> C	lob # ttem 100101 0001 Othe	Select the Sales or Work Order Number for the labor.			
Time: Start		Hours:	OR Select the Project or Labor Code for the labor.			
00:00	Select a Labor Code					
	Code	Description				
End	▶123456 123457	Welding				
00:00	123457	Assembly				
	-					
	-					
	-					
	L-L	I				
			<u>O</u> k <u>C</u> ancel			
de.dbf)	Re	cord: 1/2	Record Unlocked			

You can enter the **Start Time** and **End Time** with your keyboard and/or by clicking on the spinners with your mouse. The start and end times represent a 24 hour clock, i.e. 16:00 would represent 4:00 PM. pc/MRP will automatically insert the total number of hours into the **Regular Hours** text box based on the start and end times. You can skip the start and end times, and enter the regular number of hours directly into the Regular Hours text box directly (you must do this if the work day or shift spans two calendar days). In addition, you can enter additional hours of overtime for that date. pc/MRP won't accept a record if both Regular and Overtime are 00:00 (Versions **8.83D** and above).

Pressing the **Ok** button will bring you back to the Time Sheet Screen. You must click on the **Save/Exit** button to save the time sheet record.

### 16.11.3.3 Edit a Time Sheet Record

Employee:				Display:			
ID #: 000014				C One Day C One Month C One Week C Date Rang			
Name: Don S Si	mith				4 / 1 /01	•	
Date	Job#	Item	Start Time	Stop Time	Reg Hours	O.T. Hours	
04/13/200	1 000699	0001	08:00	10:00	02:00		C
							+
							$^+$
							Ŧ
							+
							1
							•

To edit a time sheet record, select the time sheet record you wish to edit from the scrollable browse window on the screen shown above and click on the **Edit** button.

#### 16.11.3.4 Delete a Time Sheet Record

To delete a time sheet record, select the time sheet record you wish to delete from the scrollable browse window on the screen shown above and click on the **Delete** button.

	Sort by:
ALL TIME SHEET	DATE
ALL TIME SHEET	
ALL TIME SHEET FOR A EMPLOYEE	Send report to:
ALL TIME SHEET FOR A SALES/WORK ORDER	Oisplay
	C Print
ALL LABOR COST REPORT ALL LABOR COST FOR A EMPLOYEE	O ASCII Text file
ALL LABOR COST FOR A SALES/WORK ORDER	C Excel file
Range:	O DBF file
C All Records	
Entered date range	Report type:
<u> </u>	Standard C Custom
From: To:	
4 /20/01 • 4 /20/01 •	

Selecting **Report** from the time sheet menu will allow you to print out the following reports:

- All Time Sheets (emptimesh.frx, emptimesh.dbf)
- All Time Sheets for an employee(emptimesh.frx, emptimesh.dbf)
- All Time Sheets for a sales or work order (emptimesh.frx, emptimesh.dbf)
- All Labor Costs (emptimesh.frx, emptimecost.dbf)
- All Labor Costs for an employee (emptimecost.frx, emptimesh.dbf)
- All Labor Costs for a sales or work order (emptimecost.frx, emptimesh.dbf)
- Labor Hour and Material Cost for open sales/work orders issued to manufacturing (emplabor\_cost.frx, sales.dbf)

You can select the **Sort** for any of the above reports:

- Date
- Employee Number
- Sales/Work Order Number

You can select All Records, or Enter a Date Range.

All custom reports listed in the drop down custom employee report list box must use the following naming convention, CUSTIM\*.FRX.

# 16.11.3.6 Cost of Sales Report on Invoices with Component Costs from the Stockroom and Labor Costs from the Time Sheets.

This report (COSTSALD.FRX) totals the actual inventory and labor costs for sales and work orders. The invoice.dbf file provides the selling price and the parent file for both the emptimesh.dbf and stockrta.dbf.

#### 16.11.3.7 Time Sheet Module Technical Information

Overtime pay rate factor is used to calculate the average labor cost in the stockroom module. Re-log into the Employee Time Sheet. This option allows users to enter time sheet in a sharing console environment.

- Formset: Emptimesh.scx
- View: Vemptimesh
- Data base: MRPVIEWS.DBC
- Buffering Method: Table buffered
- Table Update Method: Uses formset's Commitchange() method
- Free Tables:Employee.dbf, EmpTimeSh.dbf
- Indexes File: Emptimesh.cdx
- Tags:
  - BYENOTIM=UPPER(EMPID+DTOS(ENTRYDATE)+STARTTIME)
  - BYDATETIM=UPPER(DTOS(ENTRYDATE)+STARTTIME)
  - BYSONOTIM=UPPER(SONO+ITEMNO)
  - BYPRIMEKEY=UPPER(PRIMEKEY)
  - BYENO=UPPER(EMPID)
  - BYDOCNO=UPPER(DOCNO)

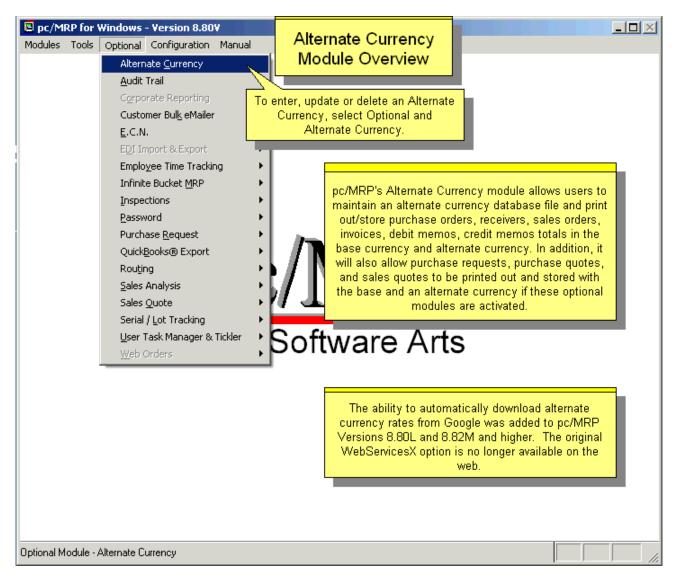
### 16.11.3.8 Time Sheet Module Default Settings

vrsion 8.40H		
Check Records require		Hourly Rate Factor – allows
valid Job and Item Number, if you want the		you to enter the over-time hourly rate multiplier. For
time sheet to verify the		example, enter 2.0 if overtime
sales/work order and		is calculated at 2 x the normal hourly rate.
line item number exist. oyee Time Sheet	Settings	normal nodity rate.
		7
Enter the over time h	ourly rate factor(e.g. 1.50)	
Hourly Rate	Factor 0.00 ÷	Enter/Edit/Delete Labor Codes if you wish use
	alid Job & Item number	Lablor or Project Codes instead of Sales/Work Order Numbers in your Time Sheet Records.
		· ·
	loyee Time Sheet Options	
	elete Labor Codes	<b>PP</b>
	1	
	Cancel	r Code
		Description
Check Delay in Employee	▶123456 Weldi	
Check Relog in Employee Time Sheet Options, if you	123457 Asser	nbly
want employees to re-login		
to enter their own time sheets. Employee Number		
in the Employee Module		
must match the Employee		
Number in the Password Module, If not checked,		
another person could enter		×
the logged on person's time sheet.	New	Delete Ok Cancel
Laborcode (c:\pcmrpw840e\laborcode.dbf)	Record: 1/	2 Record Unlocked

- Hourly Rate Factor allows you to enter the over-time hourly rate multiplier. Defaults to 1.00.
- Set-up for validating Job and Line Item number.
- Re-login of Employee Time Sheet module to enter data. Enter/Edit/Delete Other Labor Codes.
- •

# **16.12 Optional Alternate Currency Module**





pc/MRP's Alternate Currency module allows users to maintain an alternate currency database file and print out/store purchase orders, receivers, sales orders, invoices, debit memos, credit memos totals in the base currency and alternate currency. In addition, it will also allow Purchase Requests, Purchase Quotes, and Sales Quotes to be printed out and stored with the base currency and an alternate currency if these optional modules are activated. The Alternate Currency module uses Microsoft SOAP. Vista, Windows 7, 8 and 10 do not come with SOAP. You can download SOAP from our website, <u>www.pcmrp.com</u>. Select Technical Support, Support Files, and scroll down to the bottom of the page to "Microsoft SOAP Toolkit".

An online slideshow is located here: http://www.pcmrp.com/mrp101/altcurselectoptional.htm

#### Activating pc/MRP's Alternate Currency Module

pc/MRP's Alternate Currency module can be activated by the phone by contacting Software Arts at 408-226-7321 and obtaining the activation code number for this module. Once you have obtained the activation code number, click on the Configuration Option in pc/MRP's top menu bar, selection Module Activation, and enter the activation code number when prompted.

#### **Entering, Editing, Deleting Alternate Currencies**

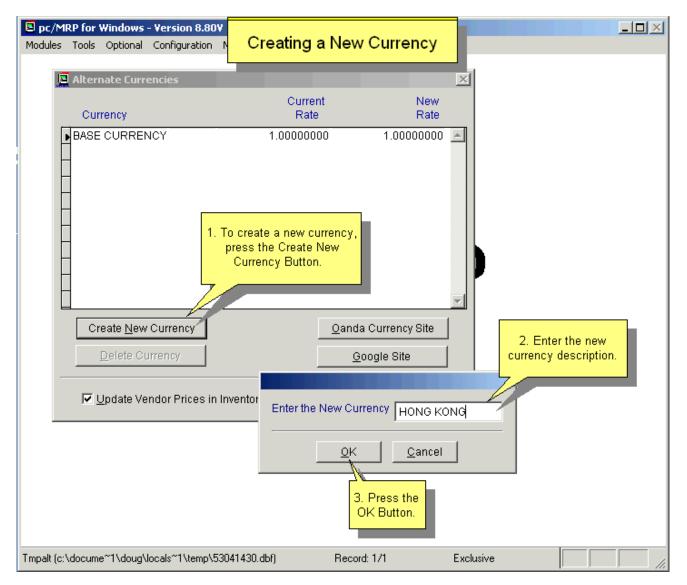
The alternate currency rate is the amount of alternate currency required to purchase one unit of your base currency. For example, if your base currency is U.S. dollars and it takes 1.25 Canadian dollars to purchase one U.S. dollar, the alternate currency rate for Canadian dollars would be 1.2500.

**Please note** that if you have the Optional Password module, only users with rights to pc/MRP's Accounting module will be able to access the Optional Alternate Currency module.

Selection of **Alternate Currency** from the **Optional** menu will present the dialog box shown below. This window allows the creation of new currency exchange rates, the alteration of existing currency exchange rates or the deletion of currencies that are no longer needed.

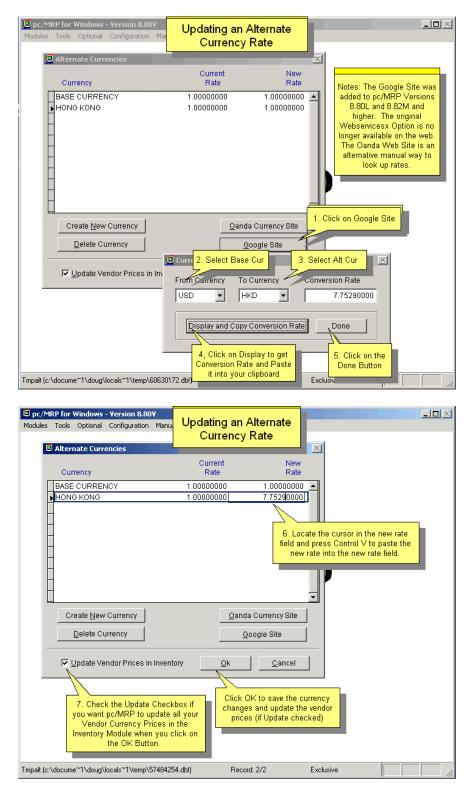
The currency list will display all the currencies along with the current exchange rate and the new exchange rate (if the user just updated the rate).

#### **Creating/Entering a new Currency Rate**



A new currency can be added to the database by pressing the **Create New Currency** button.

#### **Updating/Deleting an Alternate Currency Rate**



The vendor price fields will be updated for each part in the inventory that is set to track the costs based on the vendor's currency instead of the base currency. The vendor price fields will not be updated if the **Update Vendor Prices** box in the alternate currency module is un-checked. (Logically there are only a few reasons why this check box would not be checked. Under most circumstances you will want the prices updated, thus you will want the Update Vendor Prices checked.)

The highlighted currency can be deleted from the database by pressing the **Delete Currency** button. The user will be asked to confirm that deletion of the currency is desired.

#### 16.12.2 Using Alternate Currencies

#### Adding an Alternate Currency to a PO, Invoice, etc.

An alternate currency can be added to (and edited on) purchase orders, sales orders, invoices, etc. by selecting the desired currency from the **Document Currency** list box located on the respective data entry screen. Once an alternate currency has been added to a document, the total amount due will print out in your base currency as well as the alternate currency. See screen below:

		ng Alternate sy in Forms			-D×
Print Preview     X       IM     Im     Im     75%     Im     Im       Software latts Inc.     6830 Via Del Oro Swite 109     Im     Im     Im       Sam Jose, CR     95119     Im     Im     Im       PHOME: 400-226-7321     FRX:     Im     Im       Vendor:     Im     Im     Im       DIGI-HOXY ELECTRUMICS     RTTH: JOHN DOE     1234567     MAIN SIREET       NOUMTRUM VIEW, CR     12345-1284     USA		PO # TERMS 245 METAD ARTS RELATEDONVERCEMMORER DDE SMET MB-247-61D5 940-112-1113 PURCHAR Ship To: Software Arts Inc. 6030 Vin Del Dro S San Joses, Ca 95119	PO DATE : 05/ EQUISION : PO REGIST : PLACED BY : HIN ACCOUNT H : HIG MINITAGEN : 121		
0001 000000001 ABC BEARING, S" OD	AIB RBQ x 1" ID //07/14	OIY UNII imatch, 1 POUNIT (HOMG KOMC:	PRICE /ven good fuzT 11.00 85.281900	101AL PRICE 11.09 85.28	Base Currency Alt Currency Base Currency
The Alternate Currency Module will allow users to print out purchase orders, invoices, sales orders, sales quotes and purchase request for quotes in both base and alternate currency		SU IOTAL: HOR TOTALS FOR PO 1		11.D0 0.D0 11.D0 *3.2*	Base Currency Base Currency Alt Currency
Tempinv (c:\docume~1\doug\locals~1\temp\59141788.dt	əf)	Record: EOF/1	Exclusive		

#### Note:

The 'Sale Price' field will not allow an entry greater than 7 digits to the left of the decimal point. In some cases, when using the Alternate Currency module, more digits are needed. An example would be using JPN as Document Currency.

To solve this challenge:

- 1. Set the Document Currency as 'JPN' (as an example)
- 2. Set the line item 'Display' to 'Base Currency'
- 3. Convert the JPN value into base currency and use that value in the sale price field
- 4. Continue with the rest of the document
- 5. Save the document

The document will print accurately providing that the Alternate Currency field in the document is modified to handle the larger value.

#### **Alternate Currency and the Inventory**

The Alternate currency drop down list box on the first page of the inventory screen allows you to display the costs in the currency selected. The costs being displayed are based on the alternate currency rate \* cost stored in the base currency.

The purchase price screen contains two drop down alternate currency list boxes (**Displayed Currency** and **Vendor Currency**).

Setting and Displaying Alternate Currency in the Invent	ory Module
Inventory (Edit Mode)       2. Select the currency to be displayed.         Part # 000000001       Type Part - Inventory       2. Select the currency to be displayed.         Description       BEARING 3.000D × 1.00ID 1.00WIDE SS        Displayed Currency         Qtys 1 Costs       Vendors       Sales Prices       Details 1       Details 2         Misc:       PO Ratio       Po Unit       Buyer       Last Vendor:         1.0000       POUNIT       KIM       East Vendor:	Insgection Criteria CANADIAN BASE CURRENCY CANADIAN
Vendors     1. Select a Vendor     Vendor's Currency       ARROW ELECTRONICS     Ouantity       Image: Discrete currency     1       MOUSER ELETRONICS     1       MOUSER ELETRONICS     1       Image: New Vendor     Remove Vendor       If this vendor is to always get his set currency price, the Vendors Currency should be set to his currency. If you	DIAN ▼ Price 13.6455 7.4430 0.0000 0.0000 0.0000 0.0000
Vendor's Phone     980-112-1111       Pelete     Log Book   Part Status	If the Vendor's Currency is not the Base Currency, the purchase order document currency will be his currency and it will print out displaying your base currency prices along with the vendor's currency prices.
Displayed Currency	

The "**Displayed Currency**" drop down list box controls what currency <u>all</u> of the vendor prices are displayed in. The Displayed Currency list box will default to the currency currently being displayed on the main inventory screen.

The "**Vendor's Currency**" list boxes store the currency the price is based on for each vendor. This allows you to change an alternate currency's rate and if you check the **Update Prices** check box, pc/MRP will go into the inventory and adjust your base currency costs of all items whose price is based on the alternate currency (your base currency price will be adjusted but the alternate currency price will remain the same).

Example 1 - If a vendor from another country keeps his price the same but the currency rate changes and you select update costs/prices when recording the change, the alternate currency price will not change. However, the base currency price will change for all parts based on that currency.

Example 2 - If a vendor from another country changes his price and the price of the part is based on his currency, you would edit the part number, select purchase prices, (the vendor currency should be set to his currency), set display currency to his currency and change the price. When you set the displayed price to your base currency, your new price in your currency will be displayed.

Example 3 - If you have vendors submitting bids based on different alternate currencies, setting displayed currency to the base currency will show the equivalent prices in your base currency.

### **Printing Alternate Currency Checks**

When you are in Accounting, Print Checks or re-printing old checks, the following screen allows you to select the currency in which to print the check.

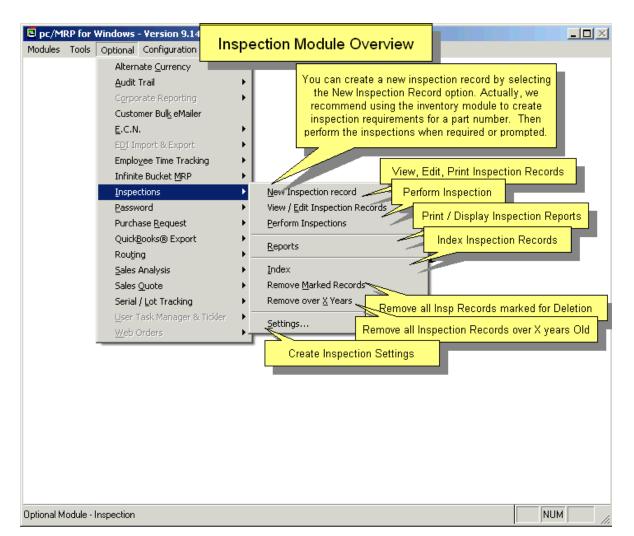
Check Printing				×
x o	Check Printing	Currency	CANADIAN \$	
Vendor Invoice	Receiver Transaction Number Number	Amount Paid	CANADIAN \$	
	000001 000002	50.00	27	
	stub will contain the base curr ount that was debited and cred in the accounting transaction.	dited	Vendor Id: BBC001 Check Total 100.0	printed out in
Remit to ID Company Name		Auto Lookup	Output to Print	altcur amour The Checkir account will credited in yo base currence
Address	ATTN: JOE SMITH		Form Type	
	111 SOUTH MAIN STREET		Laser (11" Form)	The check will
City, State & Zip Country Comments	RICHVIEW, Central handled by of USA fluxuation activity would be a Debit or Of Account.	luxuations can be creating a currency count. This account n Other Expense ther Income Credit Adjusting entries		print out in the alternate currend amount. The amount can be manually change However, the f type transaction
	with adjustin editing th	es could be made og transaction or by e original E type nsction.		original debits an credits in base currency will no be changed.

Modules Tools Changing the Currency Rate on E	
Sales Order (Edit Mode - Multiple Item)	×
SO/WO # 000004 Change # 0	Document Currency
Order Date 05/30/2012 Sales Type Order Entry	YEN Back
	BASE CURRENCY
Customer Billing / Shipping Delivery Item	FRANCS
Root Address Lookup Account #	NAK001 HK DOLLARS
	CUS POUNDS CUBELS
Street 12-1, Higashikotari Credit Card	[None]
Obata-shi Customer PO#	12695
City Tokyo Contact	Clone
State / Zip 589-6547 Rela	a <u>k</u> down
Country Japan	elete
Phone # 86-532-8325-7977 If ye	you recently updated the Alternate
	cy Rate and want a previously entered
change	ment (ex. Sales Order) to reflect the e, select Modules, Sales Order, Edit /
	and select that Sales Order. Change Ibook
Quantity Unit Sale Price Tax % Freight the	Document Currency back to Base ate Part
	cy, then again to the desired Alternate ency. This will "refresh" the Currency
Comments Displayed Currency YEN	Rate.
	ished
	ax type Out Of State
	Confirmed / /
Currency in which the Sales Order is to be billed.	NUM ///

## Changing Alternate Currency Rate on Existing Documents

## Difference between Document Currency and Displayed Currency

VFP - C:\VA Modules Tool	s Optional Document Curre	ncy - Displayed Curr	ency		
xlol So/wo #	der (Add Mode - Multiple Item)       000005     Change # 0       05/30/2012     Sales Type       Cash & Carry		Cocument Currency	<u>B</u> ack	
Custom	er Billing / Shipping Del	Account # NAK001	A ounting Info	<u>N</u> ext Items/Notes	
Address	Nakano Technologies Hiro Nakano 12-1, Higashikotari	Addr Type CUS Terms Net 30	The currency and it at the time it was	entered will be	
City	Obata-shi     Customer PO#     12695     you print out the document at a later date, the currency ratio will be the ratio you originally entered and not				
allows th displayed the track	The Displayed Currency list box allows the user to convert the displayed costs/prices into any of the tracked currencies without actually changing the document     -0047     Related Doc #     the current currency ratio.				
Quantity 1000.0	Currency.         tion           1ESTASSY         0 Assembly           Unit         Sale Price         Tax % Fr           00         64.416666         0.000	eight Disc % Req Ship Date 0.00 0.00 12/12/2012		Logbook Create Par <u>t</u>	
	Displayed Currency BASE CURRENCY CANADIAN \$	Tax Type	Serial Number Location Out Of State onfirmed / /	Create Add <u>r</u> ess <u>F</u> inished <u>C</u> ancel	
Currency in whic	h the Price/Costs and RUBELS YEN				



# **16.13 Optional Inspection Module**

#### 16.13.1 Overview

pc/MRP's Inspection Module allows users to:

- Create global inspection requirements applying to all inspection records by selecting the **Settings** option.
- Use pc/MRP's Inventory module to create inspection requirements for specific part numbers and assemblies by editing the part number and clicking on the Inspection Criteria button. You can specify when an inspection record will be created and displayed (received, manufactured, invoiced, or shipped) and what criteria will be used to inspect it.
- Manually enter a new inspection record by selecting the **New Inspection Record** option. Normally you would not use this function, as the inventory module will allow you to automatically enter a new inspection record when you receive, manufacture, invoice, and or ship a specific part or assembly as specified in the above paragraph.
- View, edit, and print inspection records (regardless of status) by selecting the **View/Edit Inspection Records** option.
- View, edit, and print open inspection records (inspection records whose status was left at Not Inspected) by selecting the **Perform Inspections** option.
- Print and or display inspection reports by selecting the **Reports** option.

An online slideshow is located here: http://www.pcmrp.com/mrp101/inspectionnewoverview.htm

#### 16.13.2 Defining Global Settings and Criteria

Inspection criteria and settings can be defined globally and for each individual part. By selecting Optional, Inspection, and Settings users can access the inspection settings. The Inspection Module Settings window is listed below. This window allows users to input a standard inspection message (Inspection Window Message...), create standard inspection criteria through the Criteria Templates, allow Exemptions, and define when inspections can be performed.

Inspection Module Settings	
Inspection <u>W</u> indow Message Criteria <u>T</u> emplates	Exemptions: ✓ Allow <u>E</u> xemptions ✓ <u>A</u> dministrator Only
Show Inspection Requirements: ✓ When <u>R</u> eceiving from vendor ✓ When returned from <u>M</u> FG	✓ When Invoicing a customer ✓ When Shipping to customer
	Ok <u>C</u> ancel

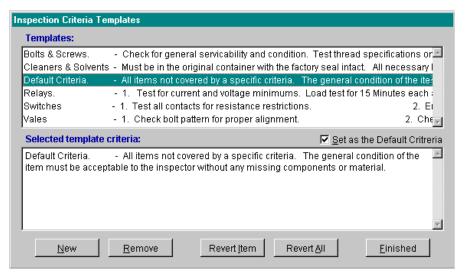
#### 16.13.2.1 Inspection Window Message...

Enter the text message to be displayed on the inspection screen
Complete the inspection record for each requirement. Include the discrepancy/reason for rejection and the disposition of the material on this form. Also enter any corrective action taken if applicable.
<u> </u>

As each part is inspected, the Inspection Form screen will be used to allow them to perform the inspection. Part of the Inspection Form screen is a section for default instructions applicable for every inspection. The Inspection Window Message... allows users to define this default list of instructions.

#### 16.13.2.2 Criteria Templates

Inspection Criteria can be entered per inventory part or defined within the Inspection Settings using the Criteria Templates.



The Criteria <u>T</u>emplates screen allows users to create, edit, and remove inspection criteria from the templates. To enter a new template, select the New button. To remove an existing entry select Remove. To edit an existing entry select the desired template from the top Templates window then edit as needed in the bottom Selected template criteria window. To undo and edits created while the Inspection Criteria Templates window is open select either the specific criteria and Revert Item or Revert All. To set specific criteria as the default criteria, select the Set as Default Criteria check box. When finished with any Criteria Template modification(s) select Finished.

#### 16.13.2.3 Exemptions:

Users can allow Exemptions to be entered as a valid part status by selecting the Allow Exemptions check box. The Allow Exemptions can be further protected by checking Administrator Only. With this check box selected, only users with D rights in the Password Module will be allowed to mark the inspection as exempt.

#### 16.13.2.4 Show Inspection Requirements

For each part/assy that needs to be inspected at one point (receiving, invoicing, etc.), select Inventory, Edit, and click on the Inspection Criteria button. Check all the stages of the manufacturing process, where the part/assy needs to be inspected. (E.g. "When receiving from vendor".)

There are two methods that will allow users to perform an inspection of parts/assys that were marked as needing inspection by the above method.

1. If you want the user (person doing the receiving, invoicing, etc.) to perform the inspection:

Select Optional, Inspections, Settings. Check as many of the "Show Inspection Requirement Screen" checkboxes as you wish. When (for example) "When receiving from vendor" is checked, and you are receiving parts that were checked as needing inspection when receiving, the inspection screen will pop up to perform the inspection while actually receiving. If the user chooses not to perform the inspection, the inspection requirement will be added to the Inspection List for the Inspector to perform at a later time.

2. If you want only an inspector to perform inspections:

Do not check the check boxes in the Settings. Then, whenever the item is received, an inspection record is created that can be performed by an inspector at a later time. The inspector will select Optional, Inspections and Perform Inspections, and create a list of parts they wish to inspect.

#### 16.13.3 Defining Settings per Inventory Item.

Part Inspection Criteria	
Part Number: 000000001 Description	m: BEARING
Inspection Criteria	Create Inspection Requirements:
	When Receiving from vendor
O Default 🛛 🔿 External File	When returned from MFG
🖸 Template 🛛 Custom	When Invoicing a customer
	When Shipping to customer
Templates:	
Cleaners & Solvents - Must be in the original cor Default Criteria All items not covered by a	specific criteria. The general condition of the iter Itage minimums. Load test for 15 Minutes each
Selected Template Criteria:	
Bolts & Screws Check for general servica on a 2% sample selection. Verify that alloys are p	ibility and condition. Test thread specifications er specifiction in section 82.91.1 paragraph 6.
Eind File Ogen File	<u>O</u> k <u>C</u> ancel

Once the Inspection module has been activated a new button, the Inspection Criteria... button, will be present on each inventory entry screen. This button will open the Part Inspection Criteria screen. This screen allows users to enter Inspection Criteria and Create Inspection Requirements.

#### 16.13.3.1 Defining Inspection Criteria per Inventory Item.

Inspection Criteria can be entered using three different methods. The first method is via a criteria template, where users can select from the Default or Template list (both created within the Inspection Module settings). The second method allows users to create a Custom requirement. This is created here within the Part Inspection Criteria screen. Finally, users can also link an External File to pc/MRP containing the inspection criteria. (File types like DOC, XLS, and PDF...) The Templates element of the Part Inspection Criteria screen lists all of the available criteria templates. The Selected Template Criteria element of the Part Inspection Criteria screen contains the actual full list of inspection criteria for that specific template.

#### **Inspection Criteria Set-up**

Default and Template Setup - instruction on how to set up the default template and template criteria is discussed above in Section 16.13.2 Defining Inspection Global Settings and Criteria. To select the Default template or from the Template list simply select the desired radio button and template from the template list.

External File - to utilize an external file, simply select the External File radio button. This will add a <u>F</u>ind File button on the bottom left of the Part Inspection Criteria screen. Press the Find File button and select to open the desired file.

Custom - to define custom criteria press the Custom radio button. This will allow users to enter custom criteria into the Selected Template Criteria element of the Part Inspection Criteria screen. To use a template or the default setting as a true template and then alter the template to be more specific for this part simply select the Default or Template radio button then press the Custom radio button. This will automatically import the inspection criteria into the Selected Template Criteria element of the Part Inspection Criteria screen. Users can then edit the inspection criteria as needed.

#### 16.13.3.2 Creating Inspection Requirements per Inventory Item.

Inspection requirements can be created per inventory part manually or at up to five different stages of use: when receiving parts from a vendor, when returning from manufacturing, when invoicing, when shipping to a customer, and when transferring parts between areas.

To create an inspection requirement at one of these stages for a specific part, while within the Part Inspection Criteria screen for that part, select the applicable Create Inspection Requirement check box. When that action is performed, an inspection requirement will be made.

To manually create a requirement select Optional, Inspections, and, New Inspection Record. The following screen will be created.

Create an Inpection Record	
Record Type Receiver	Part Number
Document Item	Description
Date Created 04/26/2001	Vendor Id
Inspection Qty	Vendor Name
Sav	e & <u>A</u> nother Save & E <u>x</u> it <u>C</u> ancel

The Create an Inspection Record screen allows users to select a file type, enter a representative document and item number, search for the part, search for a vendor, and, enter a quantity. This will create an inspection requirement to be inspected at a later date. To enter another requirement select Save & Another.

#### 16.13.4 Performing an Inspection

When the inspector selects Perform Inspections from the Inspection module menu the following screen will be created. This screen allows the inspector to select the desired grouping of inspections to perform.

Perform Inspections	
Sort By: 1 Date 2 Inspection Type 3 Document #	Include Types: INFORCEIVERS INFORCES INFORCEIVERS INFORCES INFORCEIVERS INFORCEIVERS
	List <u>C</u> ancel

By pressing List, a list of all currently pending inspections will be created.

This is the same screen, that users are presented with, when they perform inspections at e.g. Invoicing, as described in the first method in Section 16.13.2.4.

Туре	Doc#	ltem#	Date	Part#	Description	Quantity 🗅
Invoice	876578	7765	03/02/2001	000055555	TESTING AND TESTING	87.000
Invoice	000227	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000228	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000229	0001	04/09/2001	000000002	BEARING	1.000
Invoice	000230	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000231	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000232	0001	04/09/2001	000000001	BEARING	1.000 -
Invoice	000233	0001	04/09/2001	000000002	BEARING	1.000
Invoice	000234	0001	04/09/2001	000000001	BEARING	1.000
4						Þ
Prir	nt I			Inspect	Exempt	Cancel

Users can then choose to Inspect the items or print the inspection requirements. If users choose to print inspection requirements, the following screen will be created. This screen allows users to print all pending Inspections by using the Requirement List radio button or individual Inspection Requirements using that radio button. User can further specify individual selected requirements or all requirements.

If users select Inspect... the Inspection Form will be created. This is where the actual inspection takes place.

黛 pL/MRP for Windows - Version 9.40S (User: Modules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration	Inspection Data Entry Screen	1. View the Inspection Criteria for this part or assy
Inspection Form - (Edit Mode)		Inserted from Document
Receiver D	Part Number         RES-00001           Description         RES, 100 Ohms, 5 V           endor Id/Name         ABC001	Inspection Criteria
7. Enter Discrepancies (maltext M)	ter tive nr on M) 9. Print Inspection Recurd Frecurd Status	d 05/13/2021 DS 2 Certificates Received 2 Concervery 2. Insert Date (DateInsp) DS 3. Insert your name or initials Accepted 4. Select Status Certificates Received 5. Check if applicable 197.000 6. Enter Qtys ete
Inspect.db <sup>*</sup> (Ma not used by Inspect.cb <del>y</del>		10. Press the OK Button Record Unlocked

The part number, record type, document number description, and vendor information will automatically be populated. To view the inspection criteria for this individual part select Inspection Criteria... Enter the date, inspector, and status of this record, and quantities that were accepted and/or rejected. Furthermore, users can enter Discrepancies and Corrective Actions by selecting the applicable tab and typing in the provided comments area. When the inspection is complete, press OK.

### 16.13.5 Displaying an Inspection Record

Pressing the Print Inspection Record Button shown in the previous window will display or print the Inspection Record as shown below.

Distant and the	pc/MRP for Windows - Versi odules Tools Optional Confi		ection Recor	d			
	Print Preview - INSPECT.FR The inspection form can b displayed or printed as shown here.	e	TION REQU	(REM			
	Inspection #	Req Date	Inspection Q	ty	Accept Qty	19	
l	0000000001	08/16/2017	200	).0000	Reject Q ty		
ļ	Trigger Type	Doc # Item	Auxiliary		Status	🔳 Accep	
l	Receiver	000001 0001				🗌 Rejec	
ļĮ	Part Number	Part Description	Part Rev	в		Exem	
ļĮ	RES-00001	RES, 100 OHMS, 5 VOLT	rs		Certificates	🗆 Yes	
	Criteria: The Revision Field is available Discrepancy: with pc/MRP Versions						
	3 of the Resistors exc Corrective Action: The3 Resistors were r	returned to the vendor		_	9.13A and Higher		
Ins	Primary Database File: INSPECT The standard form's name is in Custom Form Names Clnspect* Standard Inspection List Repor Standard All Inspection Report Custom Report Names Cuslos*	spect.frx .frx t InspiL.frx InspAll.frx	Record: 2/2		Record Unlocked		

#### 16.13.6 Inspection Reports

There are two inspection reports that can be run, All Inspections and Inventory Inspection List. Both report types can be sent to a variety of different display types and users can create custom Inspection reports.

- All Inspections allow users to select from three different tabs to further parse the data. Under the Include tab several different records types, status, and text comments can be chosen. The Limit tab allows users to select a specific part, vendor, inspector, or record number. The Date Range allows users to select a specific date range for when either the inspection requirement was created or when the inspection was performed.
- Inventory Inspection List allows users to print a report that will list all parts with inspection requirements. The tabs can also be used in this report to further specify specific groupings of parts.

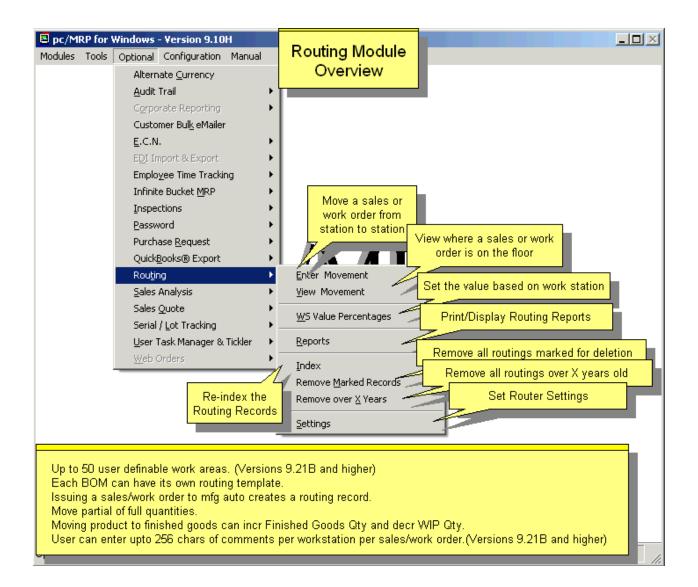
spection Reports				
Report Choice				
All inspections			•	Sort By
la stude	<u> </u>		1	1 Date Required
Include	Limit To	Date Range		2 Inspection Type
				3 Part Number
Record	Received	🗖 Invoiced		
Туре	MFG Return	🗖 Shipped		Send Report To
				Display
Status	Not Inspected	🔽 Rejected		Report Type
	Accepted	🗖 Exempt		<ul> <li>Standard</li> <li>Custom</li> </ul>
				CUSINS01.FRX
Tout				
Text Comments	Discrepancy Text			
	Corrective Action Text			Save current settings as default
				Ok Cancel

# **16.14 Optional Routing Module**

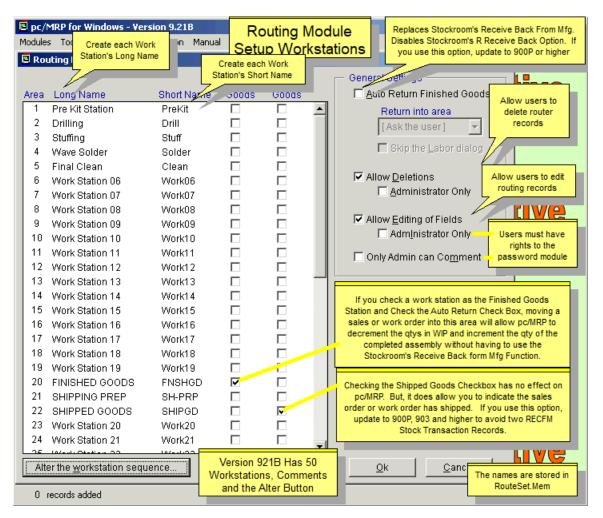
#### 16.14.1 Overview

pc/MRP's Routing Module allows you to create routing records. You can then move and track Work Orders and Sales Orders through the factory floor from Work Station to Work Station.

To activate the module, select Configuration, Module Activation, Routing from the menu, and enter a special configuration number obtained from Software Arts.



#### Setting up the Routing Module

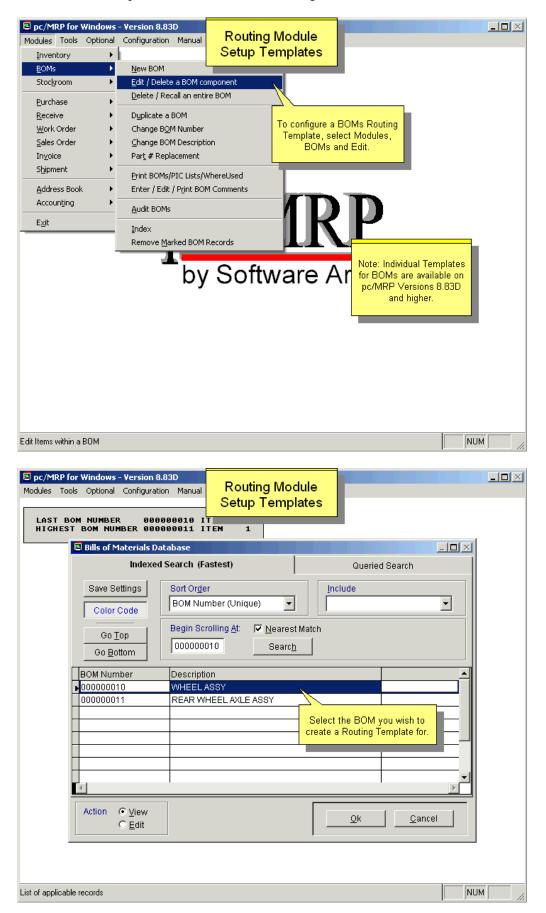


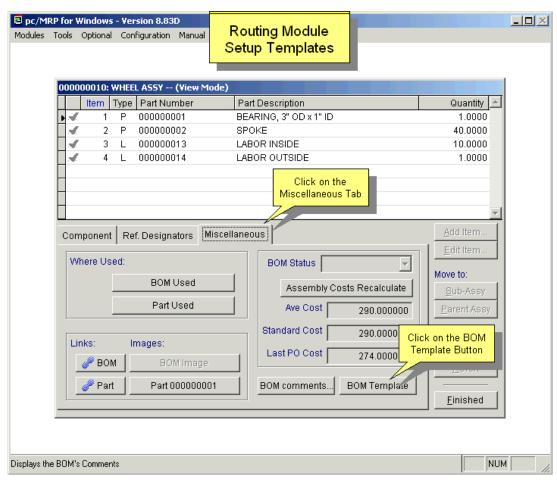
Select Optional, Routing, Settings to open the "Router Module Settings Screen". This screen allows you to setup your routing module as follows:

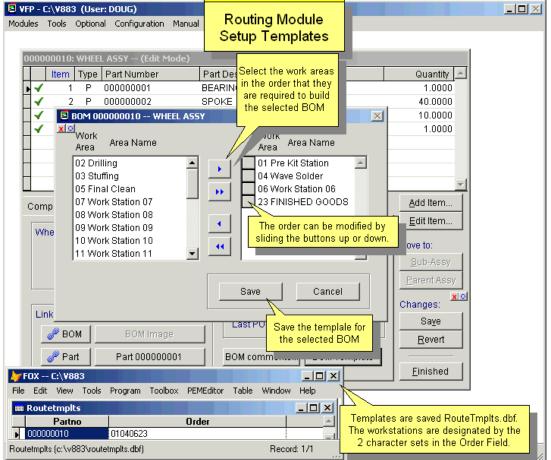
- Select each area and enter a long name (15 char) and a short name (6 char) for each workstation on your factory floor. For example, you could enter Milling Station as the long name and Mill as the short name for area 06. The short name is used for report headings.
- If you select one of your areas as the finished goods area and you check the "Auto Return Finished Goods" check box, pc/MRP will automatically initiate the stock rooms "R, Returned completed assemblies from manufacturing back into finished goods stock". Checking this box will disable the stock room module from running an "R" type transaction, as only one module can be responsible for this function.
- One area can be set as "Shipped Goods Area". This area stores the quantity finished and returned to stock but not shipped to the customer yet. Whenever finished goods are shipped, you can decrement the quantity in this area using the router's "Enter Movement" option. The shipped Goods Area allows the user to see how many items are ready for shipment. It does not provide any external functions such as the Finished Goods area which can initiate the stockroom's R (receive back finished assemblies) transaction.
- Check the "Allow Deletions" checkbox if you wish to allow users to delete router records. Actually, this will zero out the quantities in the router record for that sales/work order. If you check the "Administrator Only" check box, only users with rights to the password module will be allowed to delete (zero out) routing records.
- Checking the "Allow Editing of Fields" will allow users to edit routing record header fields containing sales/work order information. If you check the "Administrator Only" check box, only users with rights to the password module will be allowed to edit the routing record header fields.

#### 16.14.2 Setting up BOM Templates

Note: This feature was added to pc/MRP versions 8.83D and higher.







#### 16.14.3 Routing Records and Movements

(See the slideshow here: <u>http://www.pcmrp.com/mrp101/routingsettingsmenu.htm</u>)

Whenever a sales or work order is issued to manufacturing using the stockroom's "I" type "Issue to manufacturing" option, a routing record for that sales/work order is created. The quantity in work area 1 is the same as the quantity on the sales/work order.

pc/MRP for Windows - Version 9.218 Modules Tools Optional Configuration	Routing Module Enter Mov	<mark>∕ement</mark>
If you wish to leave Comments, press the Comments Versions	1.*Select the sales or work you want to move from one station to another by enter scrolling or barcode in the s or work order number.	work ing,
Routing Screen		
Work Order 000101-0001	<u>S</u> croll <u>D</u> elet	e If you wish to enter comments,
Part Number 000000010 Description WHEEL ASSY	Edit	press the Comments Versions 9.21B and higher.
Pre Kit Station 10 Wave Solder 0	Movement Comme	2. Select the area part or all of the sales order is to be moved from.
Work Station 06 0	Pre Kit Station	3. Select the area part or all of the
FINISHED GOODS 0	To Area	sales order is to be moved to.
	Wave Solder	4. Enter the quantity to be moved
	Quantity	and press the Move Button.
	10.0000 🕂 🕅	IVE -
* The sales/work order must have been issued by the stockroom to manufacturing for it to be displayed for selection. The Stockroom's I Type Issue creates the routing record containing all the work stations for the BOM listed on the sales or work order.	QkCance	IssueLineItems.prg EnterStk.AddRoute PrOutPut.prg
	Record: 1/50	Exclusive

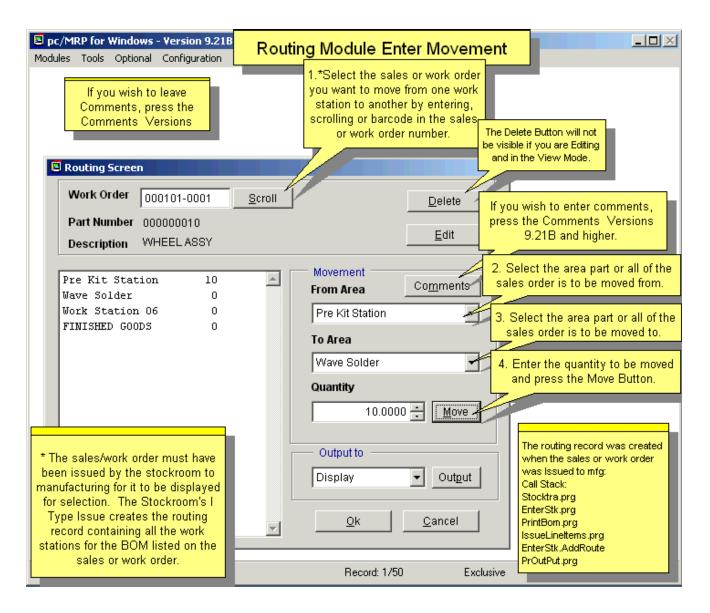
You can display a routing record for a sales/work order by selecting the "Enter Movement" option on the routing menu. Enter or "Scroll" for the sales/work order you wish to display. The "Enter Movement" screen provides the following options:

- The "Delete" button will mark the entire routing record for deletion (not only the movement(s) entered).
- The "Edit" button will display additional sales/work order information for that routing record. Note: for versions **8.83D** and higher the quantity can no longer be edited.
- The "From Area" drop down list box, "To Area" drop down list box, "Quantity" spinner, and "Move" button can be used to move a quantity of that sales/work order from one area to another area.
- The "Output" controls can be used to display, print, or send a copy of the routing record to an ASCII, Excel, or DBF file.
- The "OK" button will save your changes.
- The "Cancel" button will not save your changes.

Behind the scenes, a routing record stores the following information: SO/WO#, Item#, Part number, Description, Related document number, Date the SO/WO was issued (startdate), Date of the last movement (lastdate), Quantity in each Work Area (work01, work02, ...).

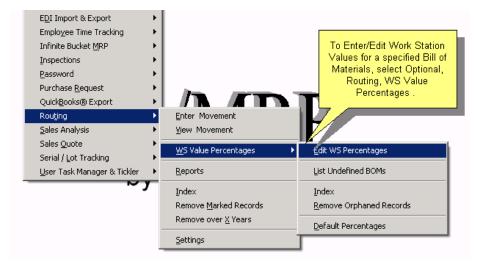
#### 16.14.4 Routing Comments

Pressing the Comments Button will allow you to enter upto 256 characters of comments per workstation per work order.



#### 16.14.5 Work Station Value Percentages

Selecting Optional, Routing, and WS Value Percentages brings up the following screen:



Selecting **Edit WS Percentages** and then choosing an assembly will allow you to enter the percentage of the cost of the assembly at each routing stage. See Report Type 'Value' defined in Section 16.14.7.

Percentages entered reflect the value of costs and labor of the assembly up to and including a routing stage. The final stage will always be 100%. See the image below.

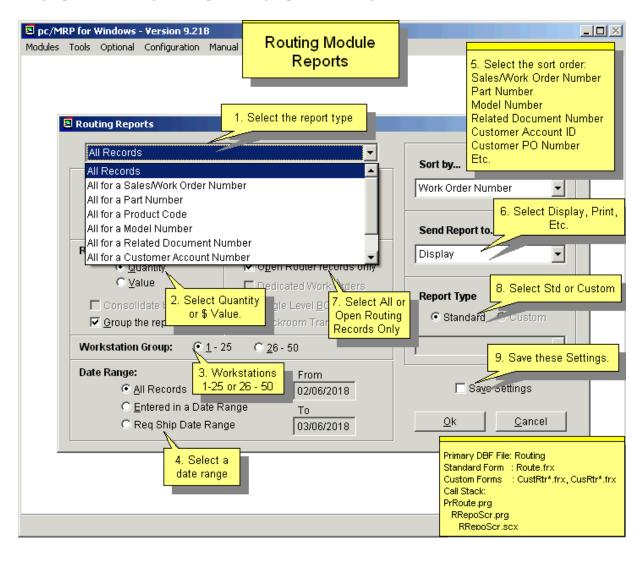
1. THE	<b>for Windows - Ve</b> ools Optional Cor		Jal				<u> </u>
		<b>York Station Va</b> er: 000000011 : WHEEL AS	an a of th Per labo	issembly, will al ne cost of the as centages entere	low you to en sembly at ea d reflect the v ly up to and i	and then choosin ter the percentau ch routing stage value of costs an ncluding a routir rays be 100%.	ge d
	PreKit	4.0000	Work11	44.0000	Work21	84.0000	
	Drill	8.0000	Work12	48.0000	Work22	88.0000	
	Solder	12.0000	Work13	52.0000	FNSHGD	92.0000	
	Stuff	16.0000	Work14	56.0000	SH-PRP	96.0000	
	Work05	20.0000	Work15	60.0000	SHIPGD	100.0000	
	Work06	24.0000	Work16	64.0000			
	Work07	28.0000	Work17	68.0000	<u> </u>	ave & Another	
	Work08	32.0000	Work18	72.0000		Save & E <u>x</u> it	
	Work09	36.0000	Work19	76.0000			
	Work10	40.0000	Work20	80.0000		<u>C</u> anc	
	,					used w display work	percentages are hen you select to //print values on a station report.
Wsbuffer				Record: 1/1	Exc	lusive	NUM

Selecting **List Undefined BOMs** will generate a listing (genericp.frx) of all BOMs that do not have a WS Percentage record and will use the default percentage record set up via the Default Percentages menu option.

Selecting **Default percentages** allows you to set global percentage defaults if you do not wish to enter specific percentages for a BOM. See Report Type 'Value' defined in the next section.

#### 16.14.6 Reports

Selecting Optional, Routing, and Reports brings up the following screen:



The following reports are available in the routing module:

- All Records
- All for a Sales Order
- All for a Part Number
- All for a Product Code
- All for a Model Number
- All for a Related Document #
- All for a Customer Account #
- All for a Customer PO #
- All for a Salesman

#### Report Type

- Quantity
- Value the outstanding value of the report is the sum of all the values which is calculated by the station's quantity \* the assembly's standard cost \* % value set in the WS Value Percentage menu option.

The reports can be parsed by a Date Range:

- All records
- Entered On a Date Range
- Required On a Date Range

Reports can also include or be grouped by:

- Open Router Records Only
- Group the Report Results by Work Order

#### Sorted By:

- Work Order Number
- Part Number
- Description
- Model Number
- Related Document #
- Customer Account ID
- Customer PO Number
- Salesman
- Start Date
- Date Required

The report output options include:

- Displayed
- Printed
- Wide carriage print out
- ASCII TXT to disk
- XLS to disk
- DBF (DB-III or VFP DB-III) to disk

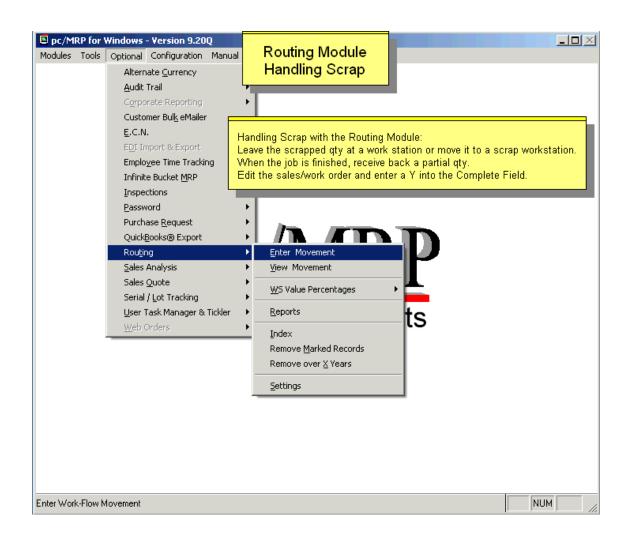
The report utilizes the **ROUTING.DBF** and format options include:

Standard format ROUTE.FRX

Custom format CUSTRTR\*.FRX and CUSRTR\*.FRX (see custom report Section 15.4.1 for more details)

#### 16.14.7 Handling Scrap with the Routing Module

Scrap can be handled as per the illustration below:



Handling Scrap with the Routing Module:

Leave the scrapped qty at a work station or move it to a scrap workstation.

When the job is finished, receive back a partial qty.

Edit the sales/work order and enter a Y into the Complete Field.

# **16.15 Optional Customer Bulk E-mailer**

#### 16.15.1 Overview

The Customer Bulk E-mailer module allows customers to utilize the pc/MRP Address Book to send e-mails to customers or vendors via MS Outlook or pc/MRP's CDO. The Customer Bulk E-Mailer allows users to send individual e-mails from the pc/MRP Address Book or build a list based on address types to send an e-mail in bulk. When choosing to send e-mails in bulk, users can define the message content, message subject, file attachments, and the number of e-mails to send at one time. The Customer Bulk E-Mailer allows users to keep track of which e-mails have been sent, which e-mails are bad, and offers a variety of reporting options.

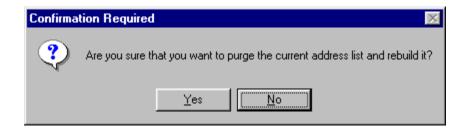
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Address List	Add Remove Purge Address Lis	st & Rela	oad	
Address Id	eMail Address	Sent	Bad	-
				7
	Sort By Address Id	st		
8	ubject pc/MRP Newsletter			
Messa	ge File			
Reports		E <u>x</u> it		-

Select Configuration from the pc/MRP menu, Module Activation, Customer Bulk E-mailer, Activate, and select the radio button for either a Ten Day Trial or call Software Arts for the full activation number and enter the activation number.

#### 16.15.2 Building an Address List to be E-mailed

To build a list of e-mail addresses from within the Customer Bulk E-mailer module select the **Purge Address** List & Reload button from the Bulk E-mail Utility screen.

This button will warn users they are about to rebuild the entire list. If the list is rebuilt, the existing list with existing bad and sent history will be removed. (Be sure to run a report if you wish to keep the history of the previous e-mail list).



Select the Yes button to build a new list. The following Address Type Selection screen will pop up.

Select the addres	ss type(s) to be included in the mail list.
Options	C <u>A</u> ll Address Types C <u>Specific Address Types</u>
Address Types	CUS DIS EMP RET VAR
	<u>OK</u> <u>Cancel</u>

From this screen, users can select **All Address Types** or **Specific Address Types** to be included in the bulk list. (Address Types are defined through **Option 52** in the Settings and Utilities Menu.)

If you wish to automatically create a list, simply select the desired address type or all addresses, and press the OK button.

If you wish to just purge the existing list and select individual addresses, select Specific Address Types and do not check any of the Address Types checkboxes. The existing list will simply be purged.

Upon pressing OK, users will be returned to the Bulk E-mail Utility screen and the list will be created according to the specifications entered.

#### 16.15.3 Viewing and Editing the Bulk E-mail List

Once the address list has been created, users can further define the list by editing entries and pressing the **Add** and **Remove** buttons. To edit an individual e-mail address simply use the mouse to scroll to and click on the **E-mail Address** field. From there the address can be edited accordingly.

To remove an entire address from the list select the address entry, and press the Remove button.

To add an additional address press the Add button and manually add the e-mail.

#### **16.15.4** Building the e-mail to be sent

The Customer Bulk E-Mailer module allows customers to define the e-mail subject, attach files to the e-mail, and embed a file into the e-mail. To define the subject of the e-mail, enter the subject into the **Subject** field. The **Attachment List** is simply a list of files that can be of any type (.pdf, .doc, .mpeg...). Files listed in the Attachment List will be attached to the e-mail. Files linked through the **Message File** option will be embedded in the email.

To set File Attachments press the Attachment List button.

Email Attachments
Image: the survey of the su
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From within the E-mail Attachments screen users can Add and Remove attachments as needed. Once you finish creating the attachment list, press OK.

To embed a file into the e-mail, press the **Message File** ellipsis button (...) and define the path to where the file exists. If a user chooses to embed a text file there are no special instructions. However if a user chooses to embed a file that contains pictures there are a few issues that need to be addressed when choosing to embed a file.

To view an embedded document via e-mail that contains pictures the recipient must be able to view HTML documents within their e-mail program. Some e-mails programs do not allow this. Outlook, Outlook Express, and Netscape do allow this but recipients might have to change their settings to view the attached document correctly.

Users can use any Word document and save it as an **OTF** file type. If users are using **MS Outlook 2000** or higher, the file must be saved as an **HTML** document.

#### **16.15.5 Sending the E-mails**

To send the e-mails press the **Send Mail** button. When this button is pressed pc/MRP will automatically send the list of e-mails to your **Outbox** within MS Outlook.

If an error is generated during this process, Outlook may be unable to find the attached files or read the embedded file. Double-check the attached file paths and make sure you are using the correct file type for that version of Outlook.

Once the e-mails are sent, the **Sent** checkbox will automatically be checked. If the e-mail is returned, check the **Bad** checkbox to help with reporting.

#### 16.15.6 Customer Bulk E-mailer Reports

By pressing the Reports button, users can print and display reports based on the current e-mail list.

📮 Email Report Options 🛛 🛛 🔀		
Select the	desired report	
Report Type	Sort By Customer Id	
C <u>S</u> ent Only C <u>U</u> nsent Only C <u>B</u> ad Only	Send <u>T</u> o Display	
	<u>Ok</u> ancel	

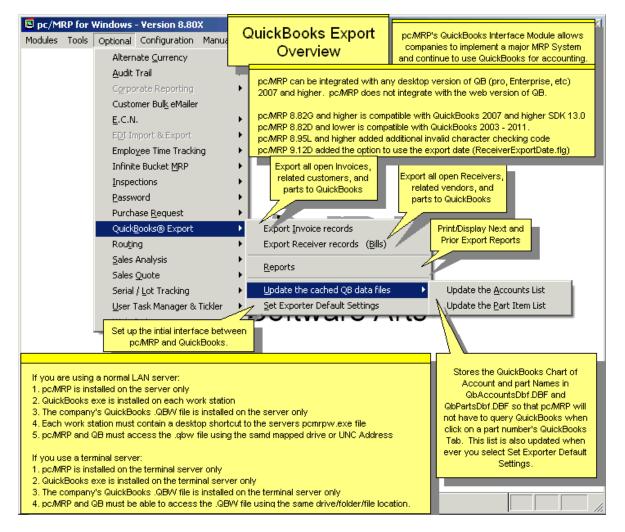
#### 16.15.7 Sending an Individual E-mail from the Address Book

Once the Customer Bulk E-mailer program is activated, within each address entry next to the e-mail field, users can press the icon of the letter to send an e-mail with that specific e-mail address.



# 16.16 Optional QuickBooks API Export Module

#### 16.16.1 Overview



pc/MRP's **QuickBooks API Export Module** exports invoice and receiver (bill) data directly into all U.S. (desktop) versions of QuickBooks 2003 and higher, Pro and higher. This module allows pc/MRP and QuickBooks to be used together eliminating the need for double entry of invoices and receivers into both systems. pc/MRP is used to enter parts, multilevel BOMs, sales orders, purchase orders, receivers, stockroom transactions, invoices, and generate material requirement planning reports. Customers would export all open invoices(AR) and receivers (AP) to QuickBooks on a daily basis. QuickBooks is used to pay bills, make deposits, and generate financial reports.

If you are using a normal LAN server:

- 1. pc/MRP is installed on the server only
- 2. QuickBooks exe is installed on each work station
- 3. The company's QuickBooks .QBW file is installed on the server only
- 4. Each work station must contain a desktop shortcut to the servers pcmrpw.exe file
- 5. pc/MRP and QB must access the .qbw file using the same mapped drive or UNC Address

If you use a terminal server:

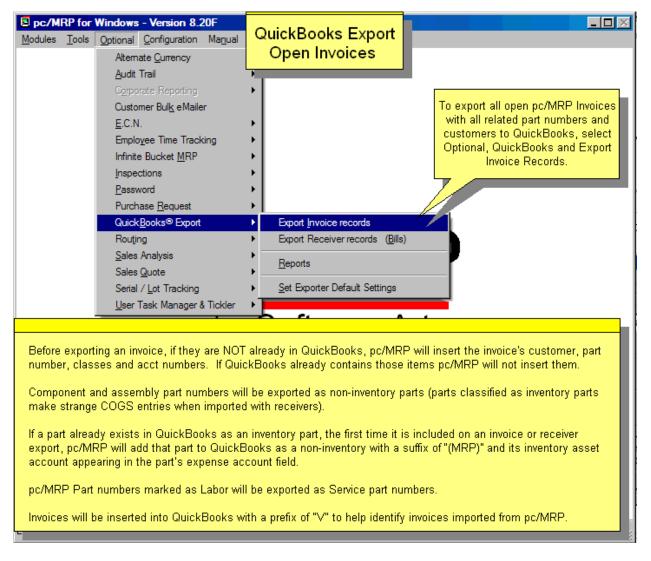
- 1. pc/MRP is installed on the terminal server only
- 2. QuickBooks exe is installed on the terminal server only
- 3. The company's QuickBooks .QBW file is installed on the terminal server only
- 4. pc/MRP and QB must be able to access the .QBW file using the same drive/folder/file location.

As the menu above shows you, the following options are provided:

- You can export invoice records and all related customers and part numbers on a daily basis.
- You can export receiver records and all related customers and part numbers on a daily basis.

You can use the report option to review the list of invoices/receivers that would be exported prior to exporting the data. In addition, the Reports option allows you to print or display the receivers that would not be included (receivers that the accountant has not inserted the vendor invoice number into).

**Note:** pc/MRP **8.82G** and higher uses **QBFC 13.0** and is compatible with QuickBooks 2007 and higher. pc/MRP **8.82D** and lower used **QBFC2** and was compatible with QuickBooks 2003 - 2011.



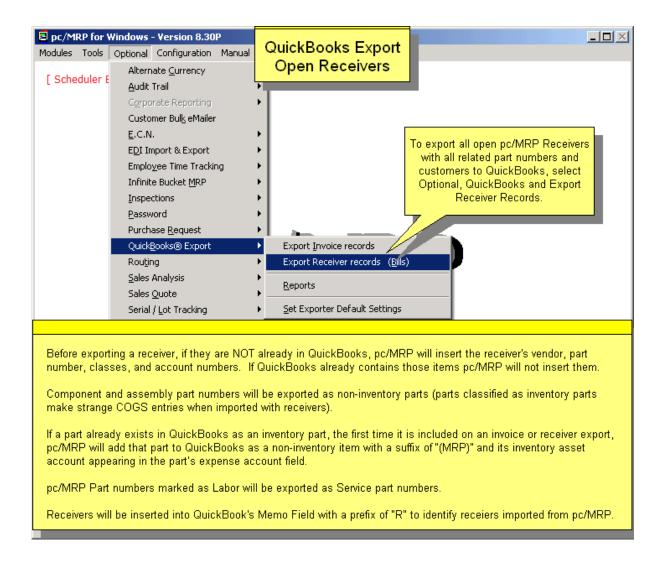
Before exporting an invoice, pc/MRP will insert the invoice's customer, part number, classes and acct numbers, if they are NOT already in QuickBooks. If QuickBooks already contains those items pc/MRP will not insert them again.

Component and assembly part numbers will be exported as non-inventory parts. (That is because parts classified as inventory parts make strange COGS entries when imported with receivers).

If a part already exists in QuickBooks as an inventory part, the first time it is included on an invoice or receiver export, pc/MRP will add that part to QuickBooks as a non-inventory with a suffix of "(MRP)" and its inventory asset account appearing in the part's expense account field.

pc/MRP Part numbers marked as Labor will be exported as Service part numbers.

Invoices will be inserted into QuickBooks with a prefix of "V" to help identify invoices imported from pc/MRP. Page 860 pc/MRP V9.50



Before exporting a receiver, pc/MRP will insert the receiver's vendor, part number, classes, and account numbers, if they are NOT already in QuickBooks. If QuickBooks already contains those items pc/MRP will not insert them again.

Component and assembly part numbers will be exported as non-inventory parts. (That is because parts classified as inventory parts make strange COGS entries when imported with receivers).

If a part already exists in QuickBooks as an inventory part, the first time it is included on an invoice or receiver export, pc/MRP will add that part to QuickBooks as a non-inventory item with a suffix of "(MRP)" and its inventory asset account appearing in the part's expense account field.

pc/MRP Part numbers marked as Labor will be exported as Service part numbers.

If a file named ReceiverExportDate.flg exists in the pc/MRP folder, the current computer date is used on the exported receiver records to QuickBooks rather than the Receiver's date.

Receivers will be inserted into QuickBook's Memo Field with a prefix of "R" to identify receivers imported from pc/MRP.

To export Receivers as Bills and Invoices as Invoices, QuickBooks does not need to be open; pc/MRP will open it as an administrator in single user mode. However it will run faster if QuickBooks is already open in single user mode.

Please note the following features:

- pc/MRP allows a Cost of Goods Sold Account to be selected for the default gross wage and or default overhead expense accounts (customer requested).
- For faster export, pc/MRP populates the drop down chart of accounts lists from its own QbAccountsDbf.dbf instead of populating the chart of accounts lists from QuickBooks. pc/MRP creates a fresh copy of QbAccountsDbf.dbf and QbPartsDbf.dbf whenever invoices or receivers are exported.
- Chart of Account Fields are 159 characters.
- Option to assign liability accounts to parts.
- pc/MRP allows users to use periodic accounting methods.
- Option to import QB BOMs.
- Option to remove the 'V' from invoices by adding a "**REMOVE\_V\_FOR\_INVOICENUMBER.FLG**" file to the pcmrpw directory.
- pc/MRP allows QuickBooks 'Other Charge' part type to be imported as Inside Labor.
- Inventory & Assembly items in QuickBooks will default to shippable when imported into pc/MRP.

Before you can export invoice and receiver data to QuickBooks you must follow the setup instructions below. Once the initial setup has been completed, the daily or weekly export from pc/MRP to QuickBooks only takes a few minutes.

## **16.16.2 Setup Instructions**

## Step 1 Backup your current copy of pc/MRP and QuickBooks

If you are presently using QuickBooks for accounting, make a backup of your QuickBooks data by selecting File and Backup from within QuickBooks.

<u>If you are presently using pc/MRP</u>, make a backup of your pc/MRP directory by copying the pcmrpw directory to a USB drive or other back-up medium after everyone has logged off pc/MRP.

## Step 2 Activate QuickBooks Export Module

Select Configuration from the pc/MRP menu, Module Activation, QuickBooks Export, Activate, select the radio button for either a Ten Day Trial or call Software Arts for the full activation number, and enter the activation number.

Activating the QuickBooks Export module will enable the fields on the QuickBooks tab on the pc/MRP Inventory screen. This tab contains the following fields:

- QuickBooks Inventory Id (this field will contain the pc/MRP part number)
- QuickBooks Cost of Goods Sold Account (this field will be blank)
- QuickBooks Income Account (this field will be blank)
- QuickBooks Asset/Expense Account (this field will be blank)

In addition, activating the QuickBooks Export module will enable the fields on the QuickBooks tab on the pc/MRP Address Book screen. This tab contains the following fields:

- Customer ID field (will contain company name + " Cust " + the Address ID)
- Vendor ID field. (will contain company name + " Vend " + the Address ID)

For now, leave the part numbers and addresses as they are and move on to step 3.

## Step 3. Set-up/Check QuickBooks Settings

If your company has not been using QuickBooks follow steps 1-22 listed below:

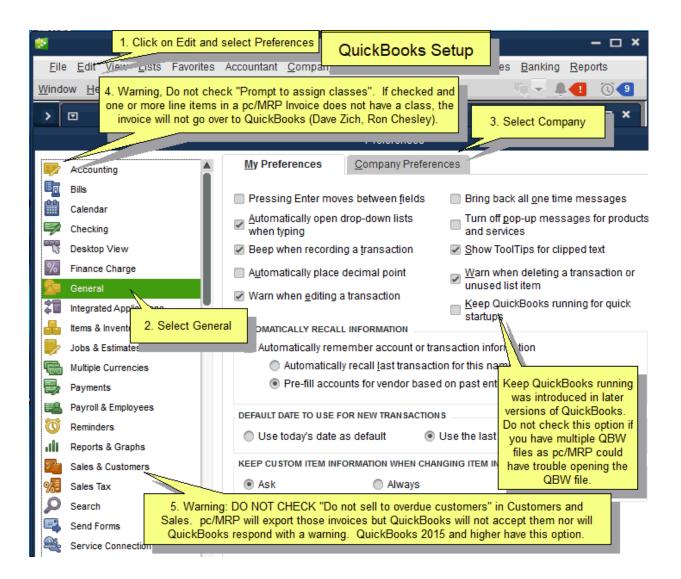
- 1. Start QuickBooks (a copy of QuickBooks must reside on this computer)
- 2. Select "File" and "New Company".
- 3. Click on the Next button 7 times.
- 4. Enter your company's name and address.
- 5. Enter your company's Tax ID # and start of fiscal year.
- 6. Pick the income tax form that your company uses (Corporation, Sole Proprietor, etc.).
- 7. Select a business type (usually pc/MRP customers select Manufacturing).
- 8. Enter your company name. Keep the QBW extension and click "Save."
- 9. Select "No" when prompted to have QuickBooks automatically create your chart of accounts.
- 10. Enter the number of QuickBooks users and continue to step 11.

If your company has been using QuickBooks, follow the steps 11-22 listed below:

<b>8</b>	۲Z-	Quick	Books	Pro Editio	on 2003									- D ×
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- 11. Select File, Easy Step Interview, Preferences
- 12. Click Next, to get to the Inventory screen. Select Yes, to maintain inventory.
- 13. Select Yes on "Do you want to turn on the inventory features". You need the Inventory Option to show up under the Activity so that you can import the pc/MRP receivers as Bill type.
- 14. Select, "Yes", if your company collects sales tax.
- 15. If you select Yes on collecting sales tax, on the next screen you will get two options shown below:
  - I collect single tax rate paid to a single tax agency.
  - I collect multiple tax rates OR have multiple tax agencies. If you choose to collect single tax rate paid to a single tax agency, you would need to fill out the tax name, tax description, tax rate, and tax agency on the next screen.
- 16. Select "Product" for the invoice format on the next screen.
- 17. Select "No" for sales order tracking (pc/MRP will contain all future sales orders)
- 18. Select, "Yes", if you wish to use the QuickBooks Payroll and time tracking features.
- 19. Select, "No" for written or verbal estimates for customers. Use the pc/MRP Sales Quote module to provide quotes for customers as all of the costing and sales prices exist in pc/MRP.
- 20. Select "Yes," if you wish to use classes for divisions and or departments.
- 21. Select "Enter the bills first and then enter the payment later."
- 22. You may now choose to leave the Easy Set-up Interview.

Note: Select Edit, and Preferences then check the following settings:



## Step 4. Locate your default QuickBooks Company

(see slideshow here: http://www.pcmrp.com/mrp101/qbexportoverview.htm)

Select Options from the pc/MRP main menu, select QuickBooks Export and Set Default Settings to display the Export to QuickBooks Default Settings Screen shown below.

<ol> <li>To locate the QuickBooks QBW File, First log into QuickBooks as the QuickBooks Administrator, Single User and press the F2 Button and copy the location and name of your QBW file. Press the Locate Button and paste the name and location in the pop up screen below.</li> </ol>	
<ul> <li>Export to QuickBooks<sup>∞</sup> Default Settings</li> <li>Location of the Company file used by QuickBooks®</li> <li>C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw</li> <li>Do You Charge Sales Tax? • Yes • No</li> <li>I collect single tax rate paid to a single tax agency</li> <li>QuickBooks<sup>®</sup> company file Location</li> <li>En inv</li> <li>Before pc/MRP can access QuickBooks®, location of the appropriate QuickBooks®</li> <li>Please review the location of the file and charge</li> <li>File:</li> <li><u>QK</u> <u>Cancel</u></li> </ul>	company file.
Use pc/MRP divisions for QuickBooks® Classes Backup Options Help Me Q Qbaccess (c:\pcmrpmanualdemo\qbaccess.dbf) Record: 1/1	Set-up Div/Clas       Note: Each computer must enter the location of the QBW file, as each PC may be mapped to the Server differently. The QBW file location for each PC is stored in QbAccess.dbf         Record Unlocked

Click the "Locate" button to locate your company's existing QuickBooks .qbw file or your company's new QuickBooks .qbw file that you created in step 4.

## Step 5. Test the service connection from pc/MRP to QuickBooks

Follow the steps listed below to fully connect pc/MRP to QuickBooks.

- 1. Open the copy of QuickBooks that resides on your computer.
- 2. Open your company's .QBW file (File and Open)
- 3. Make sure no other users are using that QBW file.
- 4. Set your local copy of QuickBooks to Single User mode by selecting "File" and "Switch to Single User Mode" within QuickBooks.
- 5. Make sure you are logged on as the Administrator by selecting "Company" and "Setup Users" from within QuickBooks
- 6. Now press the "Test Connection" button from within pc/MRP to establish and verify pc/MRP's service connection to QuickBooks.

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				Press the Test
	Export to QuickBo	ooks® Default Settings		Connection Button
		mpany file used by QuickBooks®	Locate File	
	C:\Quickbookstest	idata\Newapi.qbw	Test Connection	
	Do You Charge Sa	ales Tax? • Yes • O No	Import Import from QuickBooks®	
	-	x rate paid to a single tax agency	Map Addresses	
	C I collect multiple	taxrates OR pay multiple tax agencies	Map <u>P</u> art Items	
	Enter a sales tax de invoices:	escription to be printed on	MRP Sales Tax Description	
	Enter your sales ta: (e.g. "5.2%");	krate here as a percentage	10.000%	
Control Panel Settings. Ch make changes User Account If this doesn't "Never notify", then change U Note: Vista: It on and reboot	/ User Accounts / Cl ange to "Default - No s to my computer". N Control back to the work, set User Acco then reboot the com Jser Account Control f the connection fails the computer.	If the connection fails, select hange User Account Control tify me only when programs try to low try connection again. Change original setting. unt Control to its lowest setting, puter. Test the connection again s back to the original setting. , turn the User Account Controls User Account Controls back to	CAL001	

Minimize your pc/MRP window.

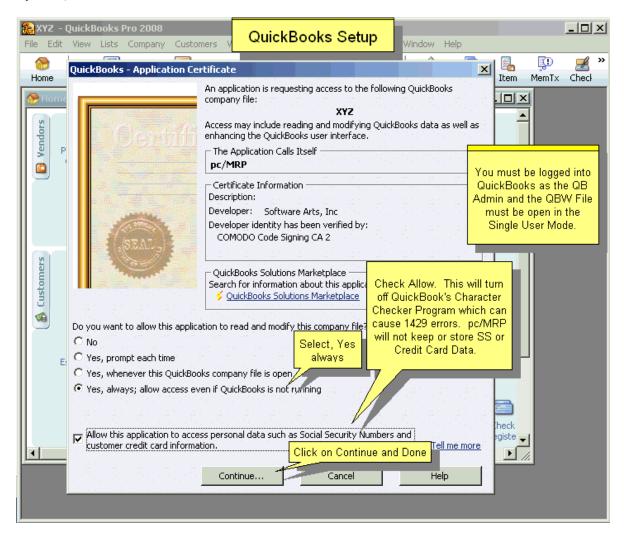
**Note**: Windows 7, 8 and 10: If the connection fails, select Control Panel / User Accounts / Change User Account Control Settings. Change to "Default – Notify me only when programs try to make changes to my computer". Now try connection again. Change User Account Control back to the original setting.

If this doesn't work, set User Account Control to its lowest setting, "Never notify", then reboot the computer. Test the connection again then change User Account Controls back to the original setting.

**Note**: Vista: If the connection fails, turn the User Account Controls on and reboot the computer. Now try connection again. Change User Account Controls back to the original setting.

## Step 6. Configure QuickBooks to allow pc/MRP to log in automatically

Restore your QuickBooks window



Under "Do you want to allow this application to read and modify this company file?" select "Yes, always".

Check "Allow this application to access..." This will turn off QuickBook's Character Checker program which can cause 1429 errors. pc/MRP will not keep or store SS or Credit Card Data. **Note:** This recommendation is different from our recommendations for earlier pc/MRP versions. The change is due to recent updates in both QuickBooks and pc/MRP. Click on Continue and Done.

In the above instructions, pc/MRP will log in as the QuickBooks Administrator. <u>If you are running a multi-user</u> copy of QuickBooks, you may want pc/MRP to log in under its own user name, as QuickBooks will not allow pc/MRP to log in, if the administrator is already logged into QuickBooks. To force pc/MRP to log in under its own user name follow the instructions listed below.

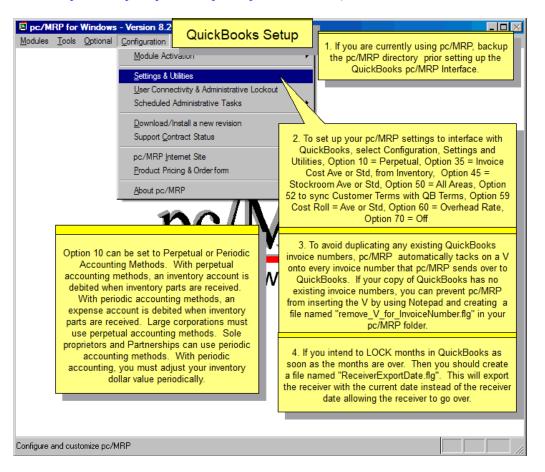
#### If you are using QuickBooks 2003 – 2005:

Go into QuickBooks and select Company, Set up Users, Press Cancel (no need to change the administrator's name and password), and Add User. Enter **PcmrpProgram** as the User Name. Enter a Password and click Next. Select All areas of QuickBooks. Now that a new user has been added to QuickBooks, return to the screen shown above and click the Properties Button. Make sure the Allow this application to login automatically check box is checked and select PcmrpProgram from the Login Drop Down List Box.

#### If you are using QuickBooks 2006 or higher:

It appears that pc/MRP must register as the Administrator and not under another name.

(see slideshow here: <u>http://www.pcmrp.com/mrp101/qboverview.htm</u>)



From within pc/MRP, select Configuration, Settings & Utilities. pc/MRP's settings must be changed as follows:

- pc/MRP will allow either **Perpetual** or **Periodic** accounting method for **Option 10**. With **Perpetual** accounting, (recommended), you debit Inventory when you receive inventory into Stores. With **Periodic** accounting, you debit an expense account when receiving inventory into stores month.
- If you have not set the size of your part numbers, select **Option 28** to set your maximum part number size. pc/MRP part number size may be set from 6 to 15 characters. If QuickBooks already contains your part numbers and you plan to import your part numbers from QuickBooks into pc/MRP, set the part number size to 15 characters.
- Set **Option 35** to use average or standard cost for cost of sales. pc/MRP will retrieve the current average or standard cost to export to QuickBooks. pc/MRP includes component, labor, and overhead costs when exporting costs of sales for Bills of Materials. If you do not want to see wages included in your COGS account, do not add labor items to your Bills of Materials.
- Set **Option 50** to configure the cost averaging formula. We recommend including all areas, even WIP.
- Set **Option 45**, Stockroom Defaults, and **Option 59**, Cost Roll-Up Defaults to use Average or Standard cost.
- Use **Option 52** and make sure your list of terms matches the Term Names in QuickBooks item list. If this is a term not listed in QuickBooks, you must enter the term in pc/MRP and edit the Net Due field, etc.
- Set **Option 60** to establish your labor overhead rate (%). If you do not want to see overhead included in your COGS account, leave the labor overhead rate set at 0
- Set **Option 70**, Setting freight as % of cost to off.

For more detailed information regarding the various settings listed above, refer to Section 15.1 of the pc/MRP Manual.

## Step 8. Import QuickBooks Item List into pc/MRP

C I collect single tax rate paid to a single tax agency	
Set-up Account Names       Set-up Initial AR       Set         ✓       Use pc/MRP divisions for QuickBooks® Classes       Set-up Initial AR         Backup Options       Help Me       Ok	t-up In With inventory items, pc/MRP Versions 8.40Z, 8.43Q and lower, pc/MRP imported QBs PurchaseCost into pc/MRP's Average Cost. pc/MRP Versions 8.40AA, 8.43R and higher import QBs Purchase Cost into pc/MRPs Standard and Last PO Cost and QBs Average Cost into pc/MRP's Average Cost. If QBs Average Cost = 0, pc/MRP imports QBs Purchase Cost into pc/MRP's Average Cost.

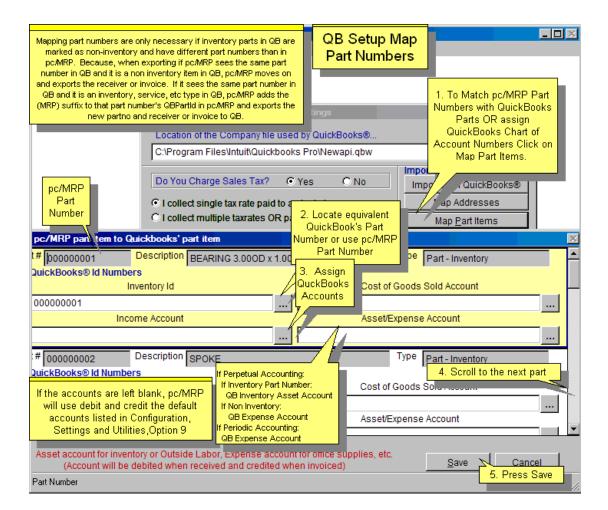
<u>If QuickBooks does not have your parts list</u>, you are done with this step. pc/MRP will automatically export part(s) the first time they are included on an invoice or receiver exported from pc/MRP to QuickBooks.

If Quick Books has your parts list and pc/MRP does not, import the QuickBooks Items into pc/MRP by clicking on the Import Parts button shown above as per the following instructions:

- 1. Make sure pc/MRP's part number size is set to 15 characters
- 2. Please note that items classified as "Other", "Discount", "Tax", and "Inactive" types will not be imported.
- Edit each item in QuickBooks such that no item's "Item Name/Number" field contains a name/number greater than 15 characters. pc/MRP imports the "Item Name/Number" field into pc/MRP's part number field. pc/MRP imports the Parent Item plus a ":" plus the "Item Name/Number" field into pc/MRP's "Inventory ID" field (QbPartID).
- 4. Start up pc/MRP, select Optional, select QuickBooks, select Set Default Settings, and click on the Import QuickBooks Parts button.
  - Each part's pc/MRP part number field will be populated by its QuickBooks name field.
  - Each part's pc/MRP QB\_PartID field will be populated by its QuickBooks FullName field ; '(MRP)' is not added at this time.
  - Each part's pc/MRP Income Account Field will be populated by the account in its QuickBooks Income Account Name Field. If the Income Account Name Field is empty, pc/MRP will use the account in the QuickBooks Account Name Field.

- Each part's pc/MRP Asset/Expense Account Field will be populated by the account in its QuickBooks Asset Account Name Field. If the Asset Account Name Field is empty, pc/MRP will use the account in the QuickBooks Account Name Field.
- If the item being imported is a service item and pc/MRP detects an account in its QuickBooks Expense Account Name Field or its Account Name Field, pc/MRP will import it as an outside labor item (since it can be purchased). Otherwise, pc/MRP will import the item as an inside labor item (a service item that can be sold).

If both QuickBooks and pc/MRP have your part numbers, follow the directions below.



Whenever an invoice or receiver is exported to QuickBooks, pc/MRP will see if QuickBooks has the part listed on the receiver or invoice. pc/MRP compares the part name in the Inventory ID Field with the part's Name Field in QuickBooks. If QuickBooks does not have the part, pc/MRP will export the part to QuickBooks as a non inventory part. If QuickBooks has the part as an inventory part, pc/MRP will attach the suffix (MRP) to the part name and export it to QuickBooks as a non inventory part.

Since pc/MRP automatically inserts the part number into the QuickBooks Inventory ID Field and QuickBooks really has no part number (it has a part name), one strategy could be to just let pc/MRP automatically insert the new part number into QuickBooks whenever an invoice or receiver containing that part number is exported. In other words you would not need to do anything.

Since past versions of QuickBooks had item limits (14,700 for Pro and 29,000 for Enterprise), some accountants have preferred to put the same generic part number in the Inventory ID Field for every part number. This strategy will prevent QuickBooks from loading up on its item limit. You could implement this strategy by using the Map Part Items as shown above and inserting the same generic QB Inventory Id for every pc/MRP part number.

Another strategy would be to click on the Map Part Items Button and match the pc/MRP part numbers with the QuickBooks' Part Numbers as shown in the screen above.

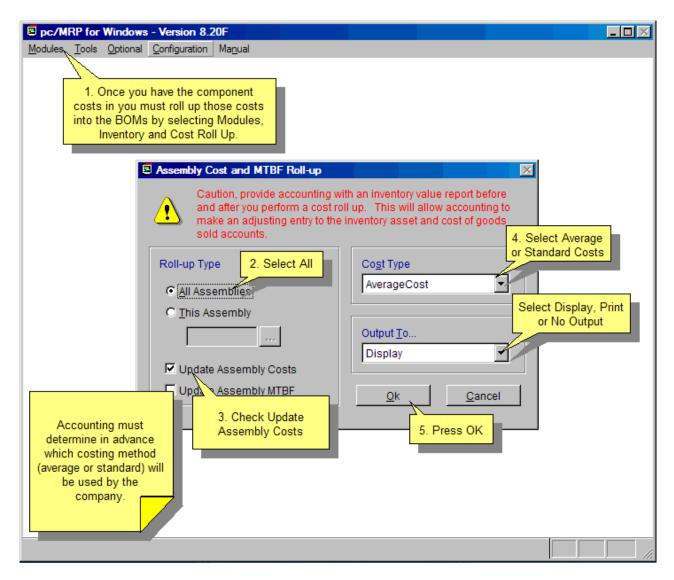
**In the future**, enter new part numbers into pc/MRP only. pc/MRP will export the part numbers to QuickBooks as necessary as "non inventory parts."

## Additional Notes on pc/MRP's Inventory ID (QBPartId) Field:

pc/MRP automatically populates the QBPartID Field with pc/MRP's part number when:

- Importing part numbers form another file using Settings and Utilities **Option 40**.
- Entering a new part number (even if QuickBooks Option has not been activated).

## Step 9. Set-up/Check your Component and Assembly Costs in pc/MRP



Since pc/MRP will be importing costs into QuickBooks, follow the instructions below.

- If you standardized on average costs, make sure all component part numbers in pc/MRP contain an average unit cost.
- If you standardized on standard costs, make sure all component part numbers in pc/MRP contain a standard unit cost.
- Make sure all Bills of Materials contain the latest totals by **performing a cost-roll-up** for all Bills of Materials based on average or standard costs (Select Modules, Inventory, and Cost Roll Up).

## Step 10. Import QuickBooks Address List into pc/MRP

E pc/MRP for Windows - Version 8.20F	
Modules Tools Optional Configuration Manual	
If QuickBooks and pc/MRP do not have addresses, skip to next slide.	If QuickBooks has addresses and pc/MRP does
Export to QuickBooks® Default Settings	not, click on Import Button to addresses from QuickBooks
Location of the Company file used by QuickBooks®	into pc/MRP
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	
Do You Charge Sales Tax?   Yes  No  Import Import Import from QuickBooks®  C I collect single tax rate paid to a single tax agency  Map Addresses	
I collect multiple taxrates OR pay multiple tax agencies     Map Part Items	t l
Enter sales tax entities, rates and agency(s). If you pay multiple entities (counties) and a single agency (state) enter the same tax agency address id for all sales tax entities. Set-up Sales <u>T</u> axes	If both pc/MRP and QuicBooks have your addresses, select Map_Addresses to match QuickBook addresses with pc/MRP addresses.
Set-up Account Names Set-up Initial AR Set-up Initial AP	
Use pc/MRP divisions for QuickBooks® Classes       Set-up Div/Classes         Backup Options       Help Me       Ok       Cancel	Both Active and In-Active Customers and Vendors will be imported from QuickBooks into pc/MRP.

<u>If QuickBooks doesn't have your addresses</u>, you are done with this step, pc/MRP will automatically export the customer and vendor addresses the first time they are included on an invoice or receiver exported from pc/MRP to QuickBooks.

If QuickBooks has your addresses and pc/MRP does not, import the QuickBooks Address List into pc/MRP by clicking on the Import from QuickBooks Button as shown above.

If both QuickBooks and pc/MRP have your customer and vendor addresses, you must match the QuickBooks addresses with the equivalent pc/MRP addresses as shown on the screen below.

pc/MRP for Windows - Version 8.04D (User: DOUG)	
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual	
Export to QuickBooks® Default Settings	×
Location of t C:\Program F Do You Charg	<u>Loodto i no</u>
pc/MRP Customer	aport from QuickBooks®
Vendor List baid to a single tax agency s OR pay multiple tax agencies	Map Addresses 2. Click to display the Vendor or Customer
Addresses To Quickbooks	List found in
Addr Id Company Name ABC001 ARROW ELECTRONICS	Quick Books Ids         QuickBooks           Customer         ABC MANUFACT - Cust - ABC001
MOUNTAIN VISTAS, CA 12345-1234	Vendor
Addr Id Company Name	Quick Books I 4. The QuickBooks Vendor
ABC002 ABC MANUFACTURING	Name will be inserted into the
RICHVIEW, CA 44335	Vendor pc/MRP QB Vendor ID Field
_Addr Id Company Name	Quick Books Ids
BBC001 BBC MANUFACTURING COMPANY	Customer
	Vendor
Available vendors from Quickbooks	
CA STATE BOA - Vend - CAL001	poks lds
CA STATE BOARD OF EQUALIZATION FROM QB	
. 3. Select the Ven QuickBooks Ve	
	Exclusive NUM

In the future, enter new customer and vendor addresses into pc/MRP only; pc/MRP will export the addresses to QuickBooks as necessary.

## Step 11. Setup Sales Taxes

<u>If you collect sales tax for a single tax entity</u>, skip to step 12 <u>If you collect sales tax for multiple tax entities</u> (counties or states), skip to step 13

If you do not collect sales tax, follow the instructions below:

Restore your pc/MRP window

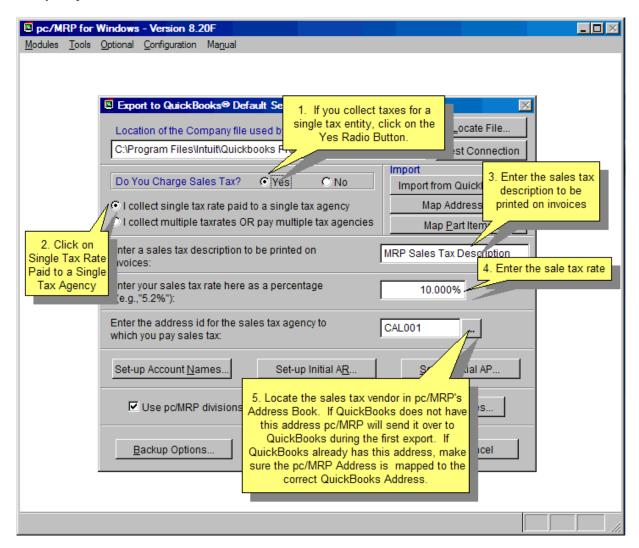
pc/MRP for Windows - Version 8.20F	
Modules Tools Optional Configuration Manual	
Export to QuickBooks® Default Settings	×
Location of the Company file used by QuickBooks®	Locate File
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	Test Connection
Do You Charge Sales Tax? O Yes 📀 No	Import Import from QuickBooks®
	Map Addresses
If you do not collect sales tax, click the No Radio Button.	Map <u>P</u> art Items
Set-up Account <u>N</u> ames Set-up Initial A <u>R</u>	Set-up Initial AP
Use pc/MRP divisions for QuickBooks® Classes	Return Div/Olegans
	Set-up <u>D</u> iv/Classes
Backup Options Help Me	Ok Cancel

Click on the No radio button.

You are done with sales tax; skip to step 14.

## Step 12. Setup Sales Taxes (sales taxes are collected for a single tax entity)

Restore your pc/MRP window.



Click on the Yes "Do you Charge Sales Tax" radio button.

Click on the "Single tax entity" radio button

The Export to QuickBooks Default Settings Screen will change as shown below allowing you to fill in the:

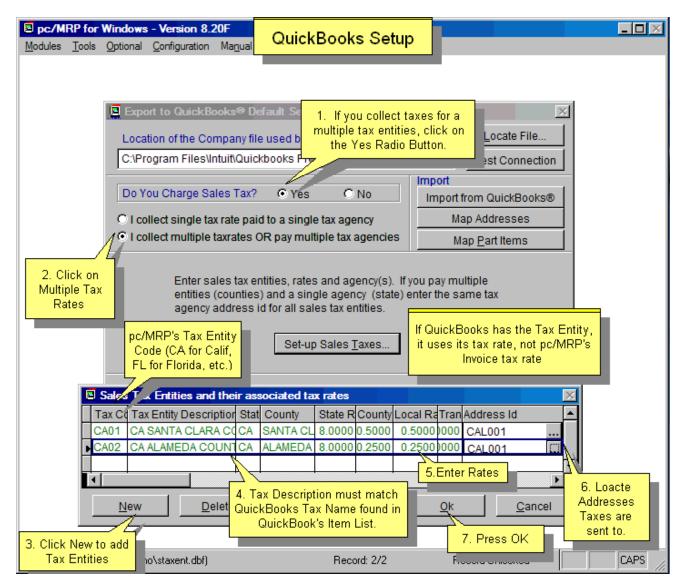
- sales tax description that will appear on invoices
- sales tax rate
- address id for your sales tax vendor (state agency that collects sales tax).

Be sure to scroll and pull up the sales tax agency from the pc/MRP address book by clicking on the ellipsis (...) button to the right of the sales tax agency address id field. The address id should contain the address of the sales tax agency

You are done with sales tax; skip to step 14.

## Step 13. Setup Sales Taxes (sales taxes are collected for multiple tax entities)

Enter the sale tax agencies and their respective addresses into the address book within pc/MRP. Then, return to the QuickBooks Default Settings screen, click the Multiple Tax Rate radio button, and press the Set-up Sales Taxes button.



Pressing the **Set-up Sales Taxes** button will allow the sales tax entity screen shown below to pop up. Enter a tax code and description for each sales tax entity. Enter the state, county, state sales tax rate, county sales tax rate, local sales tax rate (if any), transit authority sales tax rate (if any) and the pc/MRP address ID. The address ID can be located by clicking the ellipsis button and selecting the correct address from the scroll window that appears.

When an invoice is exported to QuickBooks, pc/MRP checks to see if QuickBooks has a Sales Tax Item with the same name as pc/MRP's Tax Code. If QuickBooks does not have a sales tax item name that matches pc/MRP's tax code, pc/MRP inserts a new sales tax item name with the tax code as the sales tax item name in QuickBooks.

If QuickBooks has the tax item already, QuickBooks will use its own tax rate, not pc/MRP's invoice tax rate.

## Step 14. Enter 11 base accounts into QuickBooks

If you have already established a chart of accounts in QuickBooks and your copy of QuickBooks has equivalent accounts for the 11 accounts shown below, move on to the next step.

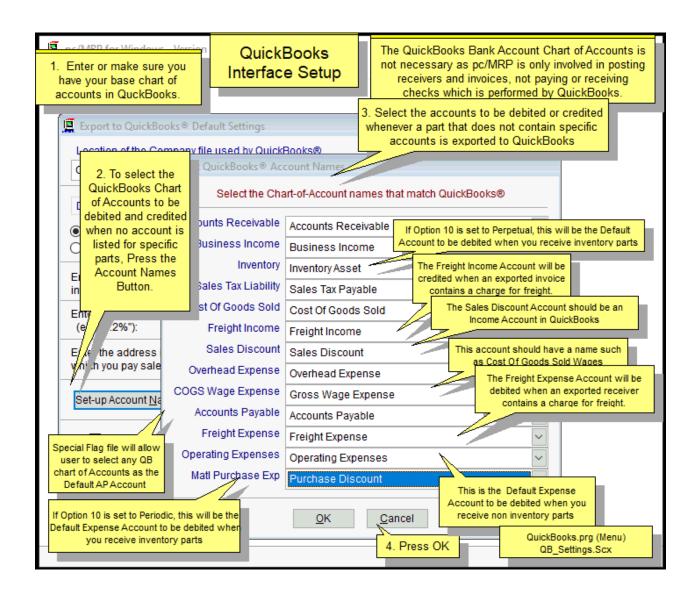
If your copy of QuickBooks does not contain a chart of accounts or is missing some of the accounts shown below, you must create the accounts shown below. To add these accounts to your QuickBooks chart of accounts, start QuickBooks, select "Accounts", and "New".

The account types must match the account types shown below.

Base Account	Account Type
Accounts Receivable	Accounts Receivable
Business Income	Income
Inventory Asset	Other Current Asset
Sales Tax Liability	Other Current Liability
Cost of Goods Sold	Cost of Goods Sold
Freight Income	Income
Sales Discount	Income
Overhead Expense	Other Expense
Gross Wage Expense	Expense
Accounts Payable	Accounts Payable
Freight Expense	Expense
Operating Expenses	Expense

After entering these accounts into QuickBooks, the next step will require you to enter these accounts into pc/MRP as your default base chart of accounts for QuickBooks. If a part being invoiced or received does not contain its own asset, income, or COGS account, pc/MRP will debit and credit the default accounts listed above.

## Step 15. Enter the QuickBooks default chart of accounts into pc/MRP



Select "Options", "QuickBooks", "Set QuickBooks Exporter Default Settings" and press the "Set-up Default Account Numbers" button to display the screen shown below. pc/MRP will display a drop down list of all legal accounts and account types that could be used for that particular account.

pc/MRP will automatically debit and credit the above QuickBooks accounts (provided the part being invoiced or received does not contain its own account numbers) when you export invoices and receivers into QuickBooks. An account must be selected for each account category.

Call Software Arts for the name of the flag file to allow users to select any QuickBooks chart of accounts as the QuickBooks Default Accounts Payable Account (hint QbApO).

## Step 16. Enter unique chart of accounts numbers into pc/MRP partnumbers

If you do not wish to enter unique chart of account numbers for individual pc/MRP part numbers skip this step.

If you wish to assign unique chart of account numbers to one or more pc/MRP part numbers follow the steps below.

To give a part or assembly number a unique account number, start pc/MRP, select Modules, select Inventory, select Edit, select the part number, select the QuickBooks tab, select the Asset, COGS, and or Income account numbers you wish to associate with this part number.

pc/MRP for Windows - Version :				
Modules Tools Optional Configuration Quicl	KBooks If you war	nt to specify unique		
		umbers for specific		
	part num	bers, edit the part		
Inventory — (Edit Mode)		rand click on the ckBooks Tab.		
Part # CON-00001 Type	Assembly <b>T</b>	tion	Criteria	
Description CON, PCB MOD JACKS		laved Currency BAS, CUR	RENCY	
	ent QuckBooks Part, which		kBooks®	
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QuickE	Books the next time the item is	Invoiced or Read		
Inventory Id CON-	0000			
Select from any QuickBooks		Select any QB COGS Account		
Current Asset, Expense, Fixed		COGS Account		
Co Other Asset or Other Expense	Account.		5	
Income Account Busin	ess Income		<b>-</b>	
			$\overline{V}$	
Asset/Expense Account	ory Asset			
Asset account for Invent		Other Current Asset		
(Account Freigh		Expense		
_	Wage Expense	Expense	Select from any	
	ting Expenses	Expense	QuickBooks Income Acct,	
		Expense	LongTerm	
Insert Account Name from QuickBooks. If a file		Expense	Liability,	
exits in the pomrp folder, pc/MRP will allow use for the Asset/Expense Account for PART- NON		Expense 💌	OtherCurrLiability,	
8.90L, 8.94J and 8.95D and higher will allow Ot	ner Current Liability Account		or Other Income	
Types to make a payment to your cre	dit card provider.		Account	

The drop down list boxes contain valid QuickBooks account numbers. Please note that these account numbers must exist in QuickBooks prior to running this option.

If the part is a component part that you sell or it goes into an assembly that you sell, select an asset account in the Asset/Expense Account Field. If it is not for resale, such as an office supply or shop supply, select an expense account.

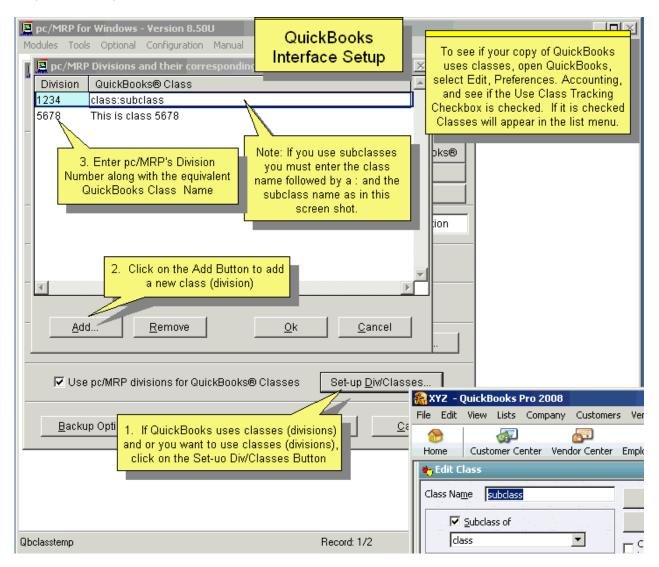
If the part is an outside labor part and it has been added to a BOM, select an inventory asset account for the Asset/Expense Account Field. If the outside labor part has not been added to a BOM, select an expense or COGs account for the Asset/Expense Account Field.

If there are many parts that require unique account numbers, it may be faster to use the Part Mapper Button on the Default Settings Screen.

Clicking on the QuickBooks Tab is much faster than in the early versions of pc/MRP. This is because pc/MRP now populates the drop down chart of accounts lists from its own QbAccountsDbf.dbf instead of populating the chart of accounts lists from QuickBooks. pc/MRP creates a fresh copy of **QbAccountsDbf.dbf** if it needs the file and the file does not exist. It also creates a fresh copy of this file whenever invoices ore receivers are exported to QuickBooks.

## Step 17. Set-up Divisions and Corresponding Classes in QuickBooks

If you do not use divisions and/or departments, uncheck the Use Divisions for QuickBooks Classes Checkbox. You are done with this step; continue to step 18. If you do decide to use divisions and/or departments in the future, you can always add divisions later.



If you do use divisions and/or departments, go to the QuickBooks Default Settings screen, check the Use Divisions for QuickBooks Classes checkbox and click the Set-up Divisions Check Button to enter divisions/classes.

pc/MRP uses a 4-character division field for divisions and departments. The first two characters are reserved for divisions and the second two characters are reserved for department. QuickBooks uses a much larger class field for divisions and/or departments. If you already have classes in QuickBooks, the description for the class must match the description you are using in QuickBooks or QuickBooks will enter it as a new class.

pc/MRP invoice and receiver line items have a field for division. When the invoices and receivers are exported to QuickBooks, the pc/MRP export routine will scan through all the invoices and receivers being exported and validate the division fields as follows:

```
If the div field in the invoice or receiver is not empty and the use div checkbox is checked
Case the Division is not found in the above pc/MRP table (Qbclass)
Write an error message and do not export the invoices or receivers
Case the Class is not found in QuickBooks (QbClasses)
Insert the class into QuickBooks
```

## Step 18. Run Set-up AR (Mark all invoices paid before the transfer date as complete)

If there are no invoices in pc/MRP and you have been entering invoices into QuickBooks, continue to step 21.

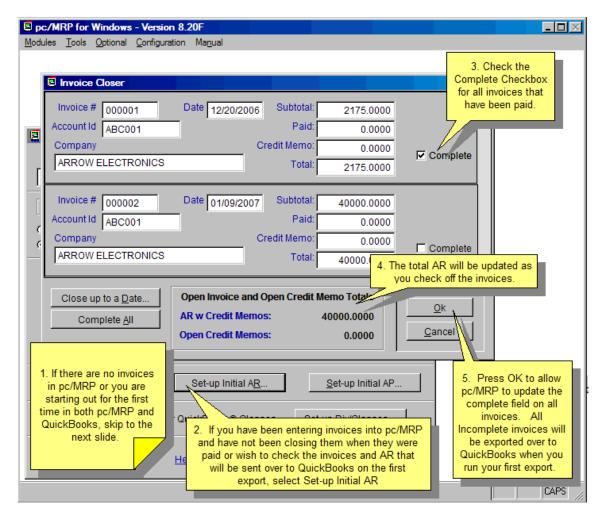
If you are starting out for the first time with both pc/MRP and QuickBooks, continue to step 21.

If you have entered invoices into pc/MRP and have been closing them when they are paid, run this step as a double check on your AR. It will also open up any invoice with a partial payment so that the entire invoice will be exported over to QuickBooks (without the payment).

If you have entered invoices into pc/MRP and have not been closing them when they were paid and are just starting with QuickBooks, run this step to close all invoices that have been paid.

If you have entered invoices into both pc/MRP and QuickBooks and have not closed your pc/MRP invoices, run this step to close all open pc/MRP invoices that already exist in QuickBooks. If QuickBooks has all the open invoices as of the transfer date, run this step to close all invoices in pc/MRP.

Press the Set-up Initial AR button from within the QuickBooks Default Settings screen to display the Invoice Closer screen shown below.



This screen does not export invoices to QuickBooks. It allows you to set up the invoices (AR) for the initial export into QuickBooks.

The AR total is equal to the amount due - amount paid

((SalePrice\*QtyShip\*(1-(Discount/100))\*(1+(TaxR/100.0000))+Freight)-AmtPaid) for the following invoice line items and credit memos:

- All open invoices and credit memos.
- If one or more line items in an invoice/credit memo are marked as open, all the line items and associated credit memos are temporarily marked as open and are included in the AR total.

Scroll the invoices and check the **complete** check box for all paid invoices and credit memos until the AR with Credit Memo Total is correct. If you check an invoice as complete, the entire invoice will be marked as complete by inserting a capital Y into the complete field of every line item for that invoice. This reduces the AR amount by the entire amount of the invoice (unless the amount due - amount paid equals 0). Invoices marked as complete will never be exported to QuickBooks.

Pressing the Cancel button will leave the invoices unchanged. The invoice complete and posted fields will remain as they were prior to entering this screen.

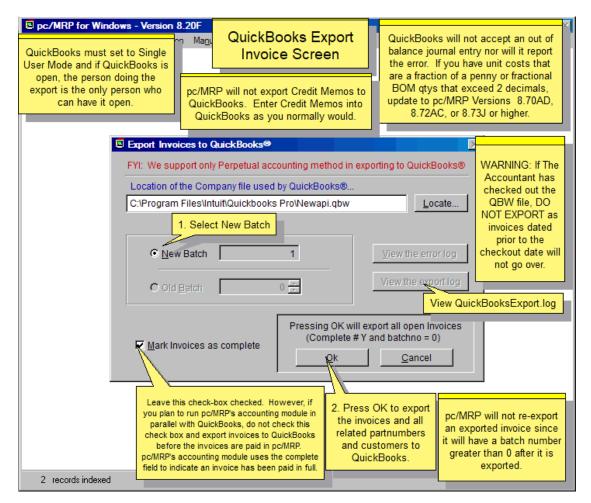
Pressing the OK button will not export the invoices. Pressing the OK button will change the invoice complete fields as per the changes you made with the closer. All invoices that are not marked as complete and have a batch number of 0 will be exported in the next step.

#### Step 19. Set Backup Options

Click on the Backup Options button. If you are using QuickBooks 2006 and higher, uncheck this checkbox as QuickBooks 2006 will not allow pc/MRP to make QBW file backups. You must perform the QBW file backup from within QuickBooks prior to exporting. If you are using QuickBooks 2003 – 2005, check the 'Perform Automatic Backup' option checkbox and set the number of QBW file backups to keep.

Modules Tools Qutional Configuration Magual         Image: Construction of the Company file used by QuickBooks®         C:\Program Files\Intuit\QuickBooks® Default Settings         C:\Program Files\Intuit\QuickBooks® Pro\Newapi.qbw         Image: C:\Program Files\Intuit\QuickBooks® Pro\Newapi.qbw         Import from QuickBooks®         Map Addresses         Map Addresses         Map Addresses         Map Part Items         Enter sales tax entities, rates and agency (state agency address id for all sales tax entities, rates and agency (state agency address id for all sales tax entities.         1. To set-up your backup Options when exporting invoices and receivers to QuickBooks, press the Backup Options Button.         Por/IMP can autom Backup Options Button.         Por/IMP can autom Def Company file befort         NOTE:       Backup Options.         Backup Options.       Heir         Import File       Still be stored in a gency address to gency is the scheckUPS.         Retain the last       Still be stored in a gency address.	pc/MRP for Windows - Version 8.20F	
Location of the Company file used by QuickBooks@       Locate File         C:Program FilesUntuitQuickbooks ProVNewapi.qbw       Test Connection         Do You Charge Sales Tax?       Yes       No         I collect single tax rate paid to a single tax agency       Map Addresses         I collect multiple taxrates OR pay multiple tax agencies       Map Part Items         Enter sales tax entities, rates and agency(s). If entities (counties) and a single agency (state) agency address id for all sales tax entities.       1. To set-up your backup options for the ceivers to QuickBooks, press the Backup Options Button.       2. If you are using QuicBooks 2003 through states the number of current backups you would like to keep. If you are using QuickBooks no longer allows external programs to backup qbw files.         Set       Dotions Button.       Perform Automatic Backups         Map Part Items       Note:       Backup Options for the ceivers to QuickBooks, press the Backup Options.         Backup Options.       Hell       Vertice Backed-up of the ceiver store of t	Modules Tools Optional Configuration Manual	
Do You Charge Sales Tax?       Yes       No       Import         Import from QuickBooks@       Map Addresses         I collect multiple taxrates OR pay multiple tax agencies       Map Part Items         Enter sales tax entities, rates and agency(s). If entities (counties) and a single agency (state agency address id for all sales tax entities.       2. If you are using QuicBooks 2003 through 2005 check the Perform Automatic Backups Checkbox and set the number of current backups you would like to keep. If you are using QuickBooks 2006 and higher, uncheck this checkbox as QuickBooks no longer allows external programs to backup qbw files.         See       Reckup Options Button.       Pc/MRP can autom pc/MRP you use the form Automatic Backups.         NOTE:       Backup Options.       Helf         Backup Options.       Helf       Perform Automatic Backups.         Retain the last       5 Backups of each export type		. Locate File
Do You Charge Sales Tax?          Yes         No          Import from QuickBooks®         Map Addresses         Map Part items         Enter sales tax entities, rates and agency(s). If entities (counties) and a single agency (state agency address id for all sales tax entities.         1. To set-up your backup Options when exporting invoices and receivers to QuickBooks, press the Backup Options Button.         Backup Options.         Heir         Backup Options.         Heir         Et the last         Set QuickBooks, press the Backup Options.         Backup Options.         Heir	C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	Test Connection
entities (counties) and a single agency (state agency address id for all sales tax entities.       2. If you are using QuicBooks 2003 through 2005 check the Perform Automatic Backups Checkbox and set the number of current backups you would like to keep. If you are using QuickBooks 2006 and higher, uncheck this checkbox as QuickBooks no longer allows external programs to backup qbw files.         Set       Backup Options Button.         Backup Options Button.       Pc/MRP can automatic Backup automatic Backup qbw files.         NOTE:       Backed-up pc/MRP s         Set ackup Options.       Helt         Backup Options.       Helt	O I collect single tax rate paid to a single tax agency	Import from QuickBooks® Map Addresses
	entities (counties) and a single agency (s agency address id for all sales tax entities 1. To set-up your backup Options when exporting invoices and receivers to QuickBooks, press the Backup Options Button. ■ CMRP can at company file b NOTE: Backup Pc/MF	<ul> <li>tate)</li> <li>2. If you are using QuicBooks 2003 through 2005 check the Perform Automatic Backups Checkbox and set the number of current backups you would like to keep. If you are using QuickBooks 2006 and higher, uncheck this checkbox as QuickBooks no longer allows external programs to backup qbw files.</li> <li>ed-up as will be stored in a are named QBW BACKUPS.</li> <li>Perform Automatic Backups</li> <li>5 Backups of each export type</li> </ul>

Step 20. Export pc/MRP Open Invoices (AR)



To export all open invoices, sales tax entities, divisions/classes, related part numbers, related vendors, and customers that are not in QuickBooks from pc/MRP, start pc/MRP, select Optional, QuickBooks Export, and Export Invoice records.

Press OK to export all open pc/MRP invoices. pc/MRP will only export invoices where the batch number is 0 (zero) and the invoice is not complete (complete  $\neq$  Y). Partial payments and credit memos will not be exported. Once pc/MRP has completed the export, it will insert the batch number into the pc/MRP invoices that were exported and any open credit memos to prevent them from being exported again. To re-export a batch you would select Old Batch instead of New Batch.

If any of the invoices exported contained partial payments or credit memos, pc/MRP will display a warning message asking you to open up the export log. Within the export log, scroll to the bottom of the file for a list of partial payments and credit memos. Print this list out by selecting File and Print, as you will need this list on the next step. Enter the credit memos and partial payments by hand into QuickBooks. The total amount displayed on the Export Log Report is a sum of the following calculation:

```
Round(SalePrice*QtyShip*(1-(Discount/100))*(1+(TaxR/100.00))+Freight, 2)
```

If you get an exceeded credit limit in pc/MRP error message, temporarily raise the customer's credit limit in pc/MRP and export again. If the error message indicates the customer's credit limit was exceeded from QuickBooks, temporarily raise the credit limit in QuickBooks and export again.

In the future:

Use pc/MRP to enter all invoices and export them to QuickBooks once a day or once a week.

Use QuickBooks to enter all credit memos and invoice payments.

## Step 21. Run Set-up AP (Mark all receivers paid before the transfer date as complete)

If there are no receivers in pc/MRP and you have been entering receivers into QuickBooks, do not run this step and continue to step 23.

If you are starting out for the first time with both pc/MRP and QuickBooks, do not run this step and continue to step 23.

If you have entered receivers into pc/MRP and have been closing them when they are paid, run this step as a double check on your AP. It will also open up any receiver with a partial payment so the entire receiver will be exported over to QuickBooks.

If you have entered receivers into pc/MRP and have not been closing them when they were paid, and are just starting with QuickBooks, run this step to close all receivers that have been paid.

If you have entered receivers into both pc/MRP and QuickBooks and not closing your pc/MRP receivers, run this step to close all open pc/MRP receivers that already exist in QuickBooks. If QuickBooks has all the open receivers as of the transfer date, run this step to close all receivers in pc/MRP.

Pressing the Set-up Initial AP button on the QuickBooks Default Settings screen from within pc/MRP will display the Receiver Closer screen shown below.

🖪 р	c/MRP for Windows - Version 8.20F				
Modu	ules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual				
L	Receiver Closer         Receiver # 000001       Vendor Inv       1234         Account Id       BBC001       Date       12/20/2         Company       BBC MANUFACTURING COMPANY	exported ove bills, Check al receiv 4. Ma	<ul> <li>3. To prevent a receivers from being exported over to QuickBooks as an open bills, Check the Complete Checkbox for al receivers that have been paid.</li> <li>4. Make sure the receivers you want exported over to QuckBooks have a Vendor Invoice Number and the Complete Field is not checked.</li> </ul>		
[ [ 0 0		Debit M Complete	Paid: () Memo: () Total: 4. The total you cheat tals ()	0.0000 0.0000 0.0000 AP will be updated as ck off the receivers.	
1. If there are no receivers in pc/MRP or you are starting out for the first time in both pc/MRP and QuickBooks, skip to the next slide.					

This screen allows you to set-up the initial export of open (unpaid) receivers with vendor invoice number into QuickBooks. Only receivers that are not marked complete and have a vendor invoice number will be exported and included in the AP w Debit Memos Total. This screen will display the first vendor invoice number it finds in a receiver. If you enter a vendor invoice number into a receiver or it already has a vendor invoice number, every line item on that receiver will be populated with that vendor invoice number when you press the OK button.

This screen does not export the open receivers into QuickBooks. It allows you to set up the receivers for the initial export into QuickBooks.

Clicking on the Set-up AP button scans each receiver to determine the AP total and displays the above AP screen. The AP total is equal to the amount due - amount paid for the following receiver line items and debit memos:

- All open receivers and debit memos with vendor invoice numbers.
- If one or more line items in a receiver /debit memos are marked as open, all the line items and associated debit memos are temporarily marked as open and are included in the AP total. They will be returned to original state after the export if you did not specify that exported receivers be marked as complete, (if amount paid amount due >= 0 replace complete with "Y")

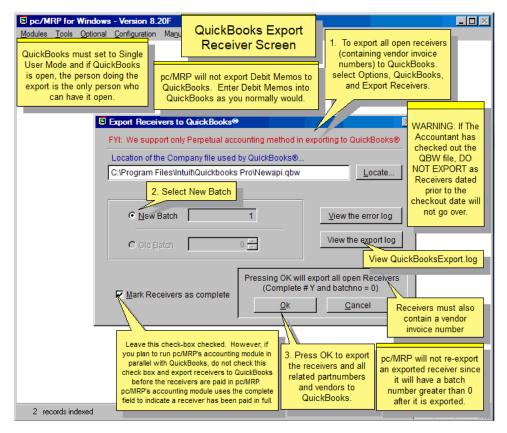
Scroll the receivers and check the complete check box for all paid receivers and debit memos and add the vendor invoice number to all receivers that you wish to export, until the AP with Debit Memo Total is correct.

If you check a receiver as complete, the entire receiver will be marked as complete by inserting a capital Y into the complete field of every line item on that receiver. This reduces the AP amount by the entire amount of the receiver (unless the amount due - amount paid equals 0). Receivers marked as complete will never be exported to QuickBooks.

Pressing the Cancel button will leave the receivers unchanged. The receiver complete and posted fields will remain as they were prior to entering this screen.

Pressing the OK button will not export the receivers. Pressing the OK button will temporarily change the receiver complete fields as per the changes you made with the closer. Once the receivers have been exported in the next step, if the "Marked Receivers as complete checkbox is checked, pc/MRP will enter a "Y" into the complete field of all receivers and debit memos associated with the export.

#### Step 22. Export pc/MRP Open Receivers (AP)



To export all open receivers, sales tax entities, divisions/classes, related part numbers, and related vendors that are not in QuickBooks, start pc/MRP, select Optional, QuickBooks Export, and Export Receiver records (Bills).

Select New Batch. If you wish to mark every receiver exported as complete, check the "Mark Receivers as complete" checkbox. If you have been running the pc/MRP accounting module and wish to continue to run in parallel with QuickBooks, do not check this check box (pc/MRP accounting uses the complete field to indicate a receiver has been paid in full).

Press OK, to export all open pc/MRP receivers. Only receivers that have a batch number of 0 (zero), are not complete (complete  $\neq$  Y), and have a vendor invoice number in at least one line item, will be exported. Debit memos and partial payments will not be exported.

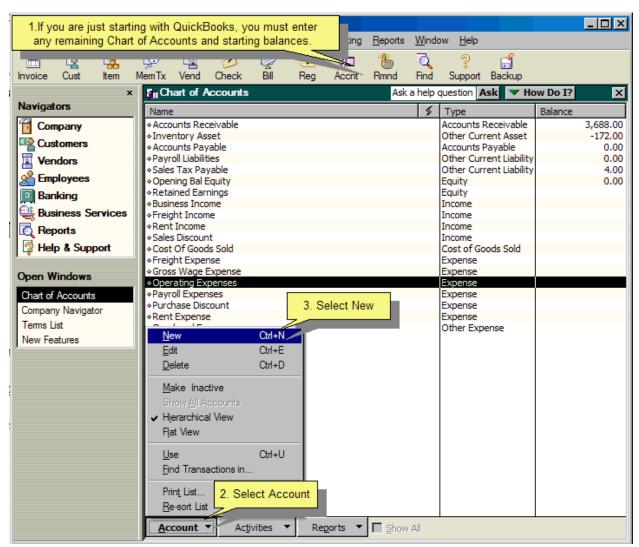
Once the export has been completed, pc/MRP will insert the batch number into the receivers that were exported and any open debit memos to prevent them from being exported again. To re-export a batch you would select Old Batch instead of New Batch.

If any open receivers or debit memos were detected, pc/MRP will display a warning message asking you to open up the export log and scroll to the bottom of the file for a list of partial payments and debit memos. Print this list out by selecting File and Print, as you will need this list on the next step. Enter the debit memos and partial payments by hand into QuickBooks. The total amount displayed on the Export Log Report is a sum of the following calculation:

```
Round(Cost*QtyRec*(1-(Discount/100))*(1+(TaxR/100.00))+Freight, 2)
```

pc/MRP receiver numbers will have a suffix of R and will be listed in QuickBooks Memo column. Vendor invoice numbers appear under QuickBooks Number column. In the future:

- Use pc/MRP to enter all receivers, add vendor invoice number to the first line item of the receiver, and export them to QuickBooks once a day.
- Use QuickBooks to enter all vendor payments and debit memos.



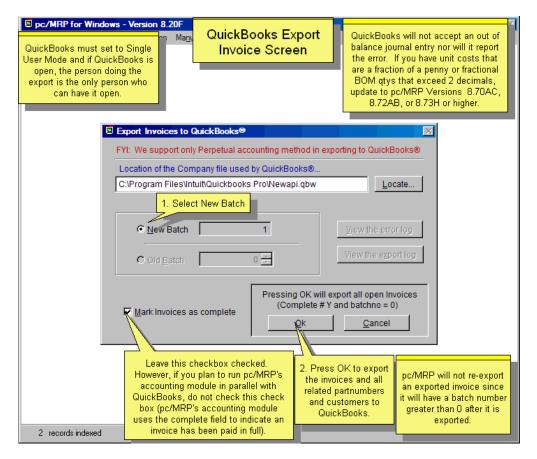
# Step 23. Enter the Remaining Chart of Accounts and Balances into QuickBooks

If you have been running QuickBooks prior to this implementation, you can skip this step.

<u>If are just starting with QuickBooks</u> you must enter the remaining chart of accounts and their balances into QuickBooks as of the day of the initial transfer.

## 16.16.3 Exporting Invoices to QB on a Daily Basis

Once you have completed the initial implementation steps (1 - 23), you can export invoices from pc/MRP into QuickBooks on a daily basis. Before exporting, make a backup of the pc/MRP database files and your QuickBooks .qbw file as per Step 1. To export, from within pc/MRP, select Optional, QuickBooks Export, and Export Invoice.



Select New Batch. If you wish to mark every invoice exported as complete, check the "Mark Invoices as complete" checkbox. If you have been running the pc/MRP accounting module and wish to continue to run in parallel with QuickBooks, do not check this check box (pc/MRP accounting uses the complete field to indicate an invoice has been paid in full). If you do run in parallel, you must export invoices before you receive payment for them.

Press OK to export all open pc/MRP invoices. pc/MRP will only export invoices where the batch number is 0 (zero) and the invoice is not complete (complete  $\neq$  Y). Credit memos and partial payments will not be exported.

pc/MRP invoice numbers will have a prefix of V and will be listed in QuickBooks Number column. The V prefix is intended to help identify invoices imported from pc/MRP.

**Note:** If a flag file, '**REMOVE\_V\_FOR\_INVOICENUMBER.FLG**' is present, the 'V" will not be prefixed to the invoice number. This option is only recommended for companies just starting with QuickBooks.

The export will insert all customers, part numbers, classes, account numbers, etc related to the exported invoices into QuickBooks, if QuickBooks does not contain those items. If QuickBooks contains those items, the export will not update the items.

Component and assembly part numbers will be exported as non-inventory parts (parts classified as inventory parts make strange COGS entries when imported with receivers)

pc/MRP Part numbers marked as Labor will be exported as Service part numbers.

If a part exists in QuickBooks as an inventory part, the first time it is included in an invoice or receiver, pc/MRP will add that part back into QuickBooks as a non-inventory with a suffix of "(MRP)" and its inventory asset account appearing in the part's expense account field.

If you get an exceeded credit limit in pc/MRP error message, temporarily raise the customer's credit limit in pc/MRP and export again. If the error message indicates the customer's credit limit was exceeded from QuickBooks, temporarily raise the credit limit in QuickBooks and export again.

To re-export a batch you would select Old Batch instead of New Batch. If you select this option, pc/MRP will export all invoices in that batch that QuickBooks does not have on the basis of invoice number.

The following paragraphs describe how pc/MRP exports various invoiced item types

#### **Inside Labor/Service Items**

Inside Labor/Service Items can be sold but not purchased

The Income account field must contain a QuickBooks income account

Use an income account for services provided to your customers (such as field maintenance) When Invoiced:

If the item does not exist in QuickBooks

pc/MRP will export the item with its income account to QuickBooks

If the income account is empty, pc/MRP will use the default income account If the item does exist in QuickBooks

pc/MRP will check the account type in QuickBooks is an income account The default AR account found in pc/MRP will be debited The item's income account found in QuickBooks will be credited\*

If the discount does not equal \$0.00

The default Sales Discount account will be credited for the amount of the tax If the freight does not equal \$0.00

The default Freight Income account will be credited

The default Sales Tax Liability account will be credited

## **Non-Inventory Items**

A Non Inventory Item can be purchased and sold

The Asset/Expense account field must contain a QuickBooks expense account

The Income account field must contain a QuickBooks income account

Use an expense account for supplies (office and shop)

Use an income account for income

When Invoiced:

If item does not exist in QuickBooks

pc/MRP will export the item with its income and expense accounts to QuickBooks If the part number of the invoice being exported is NA

Pc/MRP will use the default operating expense account

Else

pc/MRP will create an error message if the asset/expense account is empty If the income account is empty, pc/MRP will use the default income account

If item does exist in QuickBooks

pc/MRP will check the account type in QuickBooks is an income account The default AR account found in pc/MRP will be debited

The item's income account found in QuickBooks will be credited\*

If the discount does not equal \$0.00

The default Sales Discount account will be credited for the amount of the tax If the freight does not equal \$0.00

The default Freight Income account will be credited The default Sales Tax Liability account will be credited

## **Inventory Part and Assembly Items**

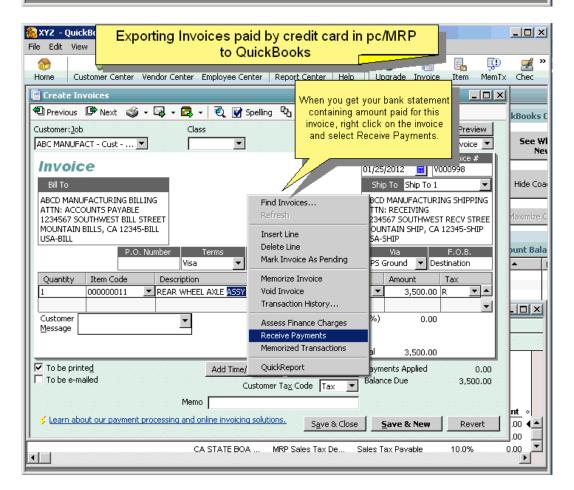
A Part and Assembly Item can be purchased and sold The Asset/Expense account field should be filled with a OuickBooks inventory asset account The COGs account field should be filled with a QuickBooks COGs account The Income account field should be filled with a QuickBooks Income Account If any of the above fields are not filled out pc/MRP will use its default QB accounts When Invoiced: If the item does not exist in QuickBooks pc/MRP will export the item with its expense and income accounts to QuickBooks If the accounts are empty, pc/MRP will use the default Inventory and income accounts If item does exist in QuickBooks pc/MRP will check that the expense account exists and is active in QuickBooks pc/MRP will check that the income account exists and is active in QuickBooks The default AR account found in pc/MRP will be debited The item's income account found in QuickBooks will be credited\* If the discount does not equal \$0.00 The default Sales Discount account will be credited for the tax If the freight does not equal \$0.00 The default Freight Income account will be credited The default Sales Tax Liability account will be credited If the item's COGs (comp+outlabor+inlabor+ovrhd) amount is greater than \$0.00 The item's COGs acct or default COGs acct will be debited for that amount If the item's component amount is greater than \$0.00 The item's asset/exp acct or default Inventory acct will be credited for that amt If the item is inside labor amount is greater than \$0.00 The default gross wage account will be credited for that amount If the item's overhead amount is greater than \$0.00

The default overhead account will be credited for that amount

\* It is important to note, that once QuickBooks has the part, it will credit the income account found in QuickBooks. Therefore, if you wanted to change the account to be credited when an item is invoiced or received and that part exists in QuickBooks, you would change the income account in QuickBooks instead of the income account in pc/MRP.

## 16.16.3.1 Exporting Invoices paid by credit card in pc/MRP to QuickBooks

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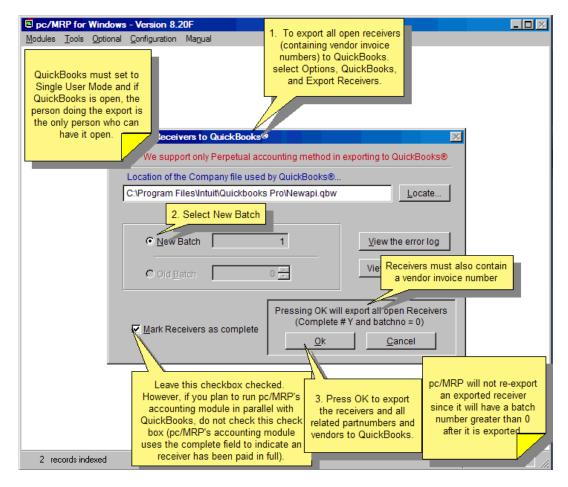


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## 16.16.4 Exporting Receivers to QB on a Daily Basis

Once you have completed the initial implementation steps (1 - 23), you can export receivers from pc/MRP into QuickBooks on a daily basis. Accounting should receive a copy of each receiver and packing list from the receiving dock. When the vendor invoices arrive, accounting must edit the receivers and add the vendor invoice numbers, so that the new receivers with vendor invoice numbers and batch number 0 will be included in the next export. Before exporting, make a backup of the pc/MRP database files and your QuickBooks company .qbw file as per Step 1. From within pc/MRP select Optional, QuickBooks Export, and Export Receiver files.



Select New Batch. If you wish to mark every receiver exported as complete, check the "Mark Receivers as complete" checkbox. If you have been running the pc/MRP accounting module and wish to continue to run in parallel with QuickBooks, do not check this check box (pc/MRP accounting uses the complete field to indicate a receiver has been paid in full). If you do run in parallel you must export receivers before you receive payment for them.

Press OK, to export all open pc/MRP receivers. Only receivers that have a batch number of 0 (zero), are not complete (complete  $\neq$  Y) and have a vendor invoice number in at least one line item will be exported. Debit memos and partial payments will not be exported.

Receivers that have a batch number of 0, are not marked complete, and do not have a vendor invoice number in them will be listed as receivers to be exported in a future batch.

pc/MRP receiver numbers will have a prefix of R an will be listed in QuickBooks Memo column. Vendor invoice numbers appear under QuickBooks Number column.

The export will insert all vendors, part numbers, classes, account numbers, etc related to the exported receivers into QuickBooks, if QuickBooks does not contain those items. If QuickBooks contains those items, the export will not update the items.

Component and assembly part numbers will be exported as non-inventory parts (parts classified as inventory parts make strange COGS entries when imported with receivers) pc/MRP Part numbers marked as Labor will be exported as Service part numbers.

If a part exists in QuickBooks as an inventory part, the first time it is included in an invoice or receiver, pc/MRP will add that part back into QuickBooks as a non-inventory with a suffix of "(MRP)" and its inventory asset account appearing in the part's expense account field.

To re-export a batch you would select Old Batch instead of New Batch. If you select this option, pc/MRP would re-export the receivers that QuickBooks does not have on the basis of vendor name and vendor invoice number.

The following paragraphs describe how pc/MRP exports various received item types:

#### **Outside Labor/Service Items**

Outside Labor/Service Items can be purchased but not sold The Asset/Expense account field must be filled in with a OB asset, COGs, or expense account Use an inventory asset account for outside labor that is included in your BOMs Use a COGs account for outside labor that is not included in your BOMs Use an expense account for outside labor not related to BOMs (IT services, etc.) Use an equity account for services rendered by an owner of the company When Received If item does not exist in QuickBooks pc/MRP will create an error message if the asset/expense account is empty If not empty, pc/MRP will export the item with its asset/expense account pc/MRP will use the default operating expense account If the item does exist in QuickBooks pc/MRP will check the account type in QuickBooks is an asset or expense account The item's expense account found in QuickBooks will be debited\* The default AP account found in pc/MRP will be credited If the freight does not equal \$0.00 The default Freight Expense account found in pcmrp will be credited **Non-Inventory Items** 

A Non Inventory Item can be purchased and sold

The Asset/Expense account field must contain a QuickBooks expense account

The Income account field must contain a OuickBooks income account

Use an expense account for supplies (office and shop)

Use an income account for income

When Received

If the item does not exist in QuickBooks

pc/MRP will export the item with its income and expense accounts to QuickBooks If the part number of the receiver being exported is NA

pc/MRP will use the default operating expense account

If the part number of the receiver being exported is not NA

pc/MRP will create an error message if the asset/expense account is empty If the item does exist in QuickBooks

pc/MRP will check the account type in QuickBooks is an expense account

The item's expense account found in QuickBooks will be debited\*

The default AP account found in pc/MRP will be credited

If the freight does not equal \$0.00

The default Freight Expense account found in pcmrp will be credited

## **Inventory Part and Assembly Items**

A Part and Assembly Item can be purchased and sold The Asset/Expense account field should be filled with a OuickBooks inventory asset account The COGs account field should be filled with a QuickBooks COGs account The Income account field should be filled with a QuickBooks Income Account If any of the above fields are not filled out pc/MRP will use its default QB accounts When Received

If the item does not exist in QuickBooks

pc/MRP will export the item with its expense and income accounts to QuickBooks

If the accounts are empty, pc/MRP will use the default Inventory and income accounts If the item does exist in QuickBooks

pc/MRP will check that the expense account in QuickBooks is an asset account The item's expense account found in QuickBooks will be debited\* The default AP account found in pc/MRP will be credited

If the freight does not equal \$0.00

The default Freight Expense account found in pcmrp will be credited

\* It is important to note, that once QuickBooks has the part, it will debit the expense account found in QuickBooks. Therefore, if you wanted to change the account to be debited when an item is received and that part exists in OuickBooks, you would change the expense account in QuickBooks instead of the expense account in pc/MRP.

\*\* pc/MRP will allow you to insert a COGS type account in a non-inventory part's Asset/Expense field, provided you create a text file named "ALLOWCOGS.FLG" in the pcmrpw directory. The COGS account will be debited when the non-inventory item is received. WE DO NOT RECOMMEND USING THIS OPTION AND BELIEVE IT REPRESENTS POOR ACCOUNTING PRACTICES AT THE LEAST.

## Assigning a Chart of Account number to a non-inventory expense item with or without a part number in a **Purchase Order.**

Solution 1, without a part number:

- 1. Go to Optional, QuickBooks Export, Set Exporter Default Settings, Set-up Account Names, and select a QuickBooks Chart of Account for Operating Expense.
- 2. From then on, use 'NA' as a part number in the Purchase Order and edit the description to describe what you are ordering. QuickBooks will create an 'NA' part number in QuickBooks if one does not exist already.

Solution 2, with part numbers:

- 1. Create a couple of generic part numbers in pc/MRP such as 'Shop Supplies', 'Office Supplies', etc.
- 2. Edit the new generic part numbers, select the QuickBooks tab, and select the QuickBooks expense account to be debited. Repeat for each generic part number.
- 3. When using a generic non-inventory part number in a Purchase Order, edit the description to describe what you are ordering.

## 16.16.5 pc/MRP's Logic

#### 16.16.5.1 Inserting a Part Number into QuickBooks

The diagram below illustrates how pc/MRP exports a part to QuickBooks if that part does not exist in QuickBooks or it exists in QuickBooks as an inventory type part.

#### Inserting a part from pc/MRP (that doesn't exist in QB\*\*) into QuickBooks (Qb\_CreateNewPartItem)

pc/MRP Inventory Part,Assemi	by	QuickBooks Non Inventory Item					
COGS	COGS*	Non inventory to					
Asset/Expense**	* Other Curr Asset*, Expense, Fixed Asset, Other Asset, Expense Asset for inventory, Exp for supplies	>QB Expense					
Income	Income*	→QB Income					
InsideLabor (can not t	be purchased or receiverd)	Service Item					
		QB Expense	Default COGS Acont				
Income	Income*	→QB Income					
Outside Labor (can no	t be invoiced)	Service Item					
Asset/Expense**	Other Curr Asset, Expense, Fixed Asset, Other Asset, Expense	→QB Expense					
	Debit Inventory asset when receiving outside labor	QB Income	Default Income Accnt from pc/MRP				
NonInventory Part		Non Inventory Ite	m				
Asset/Expense***	Other Curr Asset, Expense, Fixed Asset, Other Asset, Expense	QB Expense					
Income	Asset for inventory, Exp for supplies Income*	QB Income					

\* If there is no account or an invalid account in the part's account field, pc/MRP will insert a default account number into QuickBooks.

\*\* If the part exists in QB as an inventory part, but not as a non inventory part, pc/MRP will insert it as a new non-inventory item with an (MRP) suffix attached to the name or the part's parent's name.

\*\*\* The Asset/Expense account should contain an asset account if it is an inventory part or an expense account if it is a non inventory part number(office supplies, etc.)

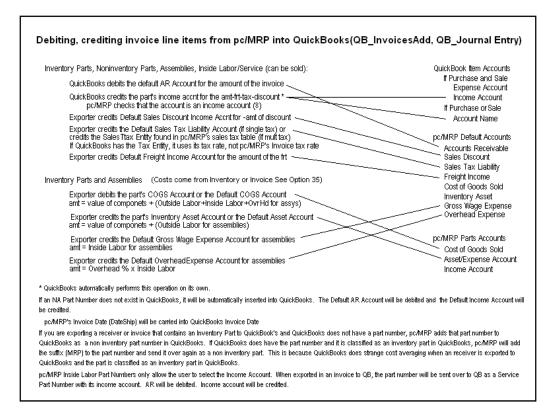
If a NA part number exists in an invoice or receiver that is being exported to QuickBooks, and QuickBooks does not contain a NA part number, pc/MRP will insert the NA partnumber into QuickBooks as a non-inventory item with the default income and expense accounts.

Inserting the Same Part Number into QuickBooks (to overcome QB's item limit)

Currently QuickBooks Pro has a limit of 14,500 total items (parts, vendors, customers, employees, terms, chart of account numbers). QuickBooks Enterprise expands the limit to 30,000 items. For this reason, you may want to give the same QB Inventory ID (QbPartID) to all of your pc/MRP part numbers. Once this part is imported into QuickBooks, QuickBooks will credit its Income Account whenever it's invoiced and debit its expense account whenever it is received as per the following diagrams.

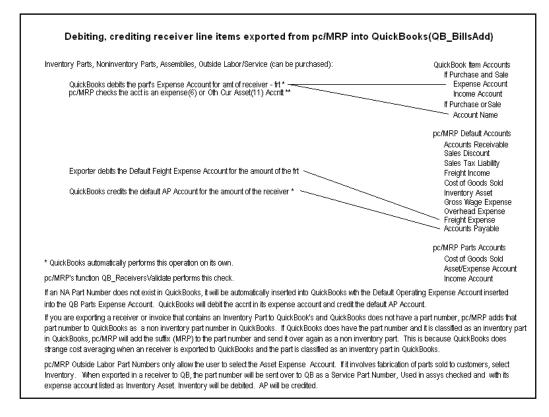
#### 16.16.5.2 Debiting and Crediting Invoice Logic

The diagram below illustrates where pc/MRP's export invoice gets its debits and credits



#### 16.16.5.3 Debiting and Crediting Receiver Logic

The diagram below illustrates where pc/MRP's export receiver gets its debits and credits.



#### 16.16.5.4 Exporting Invoices to QuickBooks Pseudo Code

The following pseudo code describes how pc/MPR exports invoices to QuickBooks. Credit Card logic is shaded. QuickBooks Module activation sets Invoice.BatchNo to -1 for Complete = Y and BatchNo = 0. This keeps pc/MRP from exporting over invoices that have been marked as complete and have CreditCard in the CheckNo field (this is historical data and should not be exported to QB.

#### Function QB\_Export

Creates a CreditProvider Object Calls QB\_BuildPcmrpCursors() Calls QB\_InvoicesValidate() Calls QB\_CreditCardExclude() Calls QB\_InvoicesAdd() If SchedulerInProcess() Calls QB\_ReportGenerate()

#### Function QB\_BuildPcmrpCursors()

If exporting invoices

Creates an ExportCursor with all invoices whose Batchno=0, not deleted, not complete, not a CM If Option 98, Credit Card Integration is enabled

Include invoice that were charged and complete, BatchNo = 0 AND CheckNo = "CreditCard" Creates a cursor, CcExclude, to contain invoice numbers that have not been processed (approved).

#### Function QB\_InvoicesValidate()

Scan the Invoice records in the ExportCursor

- If Option 98 Credit Card Enabled and references a credit card and credit card was not charged Insert the invoice into the CcExclude cursor
- Case the part number = "NA" and an item named "NA" does not exist in QuickBooks Add an NA non-inv item to QuickBooks with the default expense and income accounts Case the part number exists in QuickBooks and is an Inventory Item
- **Qb\_CreateNewPartItem**() Adds part number to QB, see Qb\_CreateNewPartItem section Case the part exists in QuickBooks and the QuickBooks Account Type is not an income account If we are adding the part to QuickBooks for the first time
  - (Invoice# Item#) The pc/MRP part (Partno) does not credit an Income type account If we are not adding the part to OuickBooks
- (Invoice# Item#)The QuickBooks part(Partmast.QbPartId)does not credit an Income acct Case the part exists in QuickBooks and the QuickBooks Expense Account is not active
- (Invoice# Item#)The QuickBooks acct (QbParts.IncomeAccnt) has been marked as inactive in QB Case the part number does not exist in QuickBooks
- **Qb\_CreateNewPartItem()** Adds the part number to QB, see Qb\_CreateNewPartItem section.

#### Function QB\_CreditCardExclude()QB CreditCardExclude

Excludes Invoices found in ccExclude cursor by setting pcmrp header.DupSkip to .T.

#### **Function QB\_InvoicesAdd()**

Debits the default Accounts Receivable Account for the full amount of the invoice Credits the parts income account found in QuickBooks

If you collect sales tax and the sales  $tax \neq 0$ , credits the default sales tax liability acct for the amt of the tax If the discount  $\neq 0$ , credits the default sales discount for the amount of the discount

If the freight  $\neq 0$ , credits the default freight income account for the amount of the freight

#### Function QB\_ReportGenerate()

Creates a CcExclude cursor if it doesn't already exist. If Option 98, Credit Card Enabled Alters the query expression to (Complete ≠ Y OR CheckNo = "CreditCard") Set relation into the CcExclude Cursor If Option 98, Credit Card Enabled Scan the Exports Cursor, add any invoice whose CheckNo ≠ "CreditCard" to CcExclude Cursor The QbExportNext.frx will not show any invoice found in the CcExclude Cursor

If the part is not an NA part and it is an inventory part or assembly **QB\_JournalEntryAddCOGS**() Credit COGS,debit inventory, labor,overhead using default accts.

**Note:** pc/MRP gets the inventory and COGs sold dollar amount from the partmaster. Option 35 determines if the average or standard cost is sent to QuickBooks.

#### 16.16.5.5 Exporting Receivers to QuickBooks Pseudo Code

The following pseudo code describes how pc/MPR exports receivers to QuickBooks. The error messages are displayed in the same text as this sentence.

#### Function QB\_BuildPcmrpCursors()

If exporting receivers

Creates an ExportCursor with all receivers whose Batchno=0, not deleted, not complete, not a DM and contains a vendor invoice number

#### Function QB\_ReceiversValidate()

Scan the Invoice records in the ExportCursor

Case the part number = "NA" and an item named "NA" does not exist in QuickBooks

Add an NA non-inv item to QuickBooks with the default expense and income accounts

Case the part number exists in QuickBooks and is an Inventory Item

**Qb\_CreateNewPartItem()** Adds the part number to QuickBooks, see Qb\_CreateNewPartItem section Case the part exists in QuickBooks and the QuickBooks Account Type is not an Expense or Asset Acct

If we are adding the part to QuickBooks for the first time

(Receive# Item#) The pc/MRP part(Partno) does not expense an Asset or Expense acct If we are not adding the part to QuickBooks

(Receive# Item#) The QuickBooks part(Partno) does not expense an Asset or Exp acct

Case the part exists in QuickBooks and the QuickBooks Expense Account is not active

(Receive# Item#)The QuickBooks acct (QbParts.ExpenseAccnt) has been marked as inactive in QB Case the part number does not exist in QuickBooks

Qb\_CreateNewPartItem() Adds the part number to QuickBooks, see Qb CreateNewPartItem section

#### Function QB\_BillsAdd()

Credits the default Accounts Payable Account for the full amount of the receiver Debits the part's expense account or account name account found in QuickBooks If the freight  $\neq 0$ , debits the default freight expense account for the amount of the freight

#### 16.16.5.6 Exporting Parts to QuickBooks Pseudo Code - Qb\_CreateNewPartItem()

The following pseudo code describes how pc/MPR exports parts to QuickBooks. The error messages are displayed in the same text as this sentence.

#### Function Qb\_CreateNewPartItem()

If part is a labor part (Partmast.Part assy = "L") QuickBooks Item Type = "Service" (lcItemType = "Service") If it is Outside Labor part (PartMast.Outsource = .T.) OuickBooks Expense Account = the part's pc/MRP's Asset/Expense account If it is an Inside Labor part (Partmast.Outsource = .F.) If the part's pc/MRP's Asset/Expense Account is empty QuickBooks Expense Account = pc/MRP's default COGs Account If the part's pc/MRP's Asset/Expense Account is not empty QuickBooks Expense Account = the part's pc/MRP's COGs Account If the part is a part or assembly OuickBooks Item Type = "Non Inventory" (lcItemType = "Non Inventory") If the part is a Non Inventory part in pc/MRP (Part Assy = "P" AND OutSource = .T.) QuickBooks Expense Account = the part's pc/MRP's Asset/Expense account If the part is an Inventory Part or an Assembly If the part's pc/MRP's Asset/Expense Account is empty QuickBooks Expense Account = pc/MRP's default Inventory Asset Account If the part's pc/MRP's Asset/Expense Account is not empty QuickBooks Expense Account = the part's pc/MRP's Asset/Exp Account If the parts pc/MRP QB Income Account is empty QuickBooks Income Account = pc/MRP's default Income Account If the parts pc/MRP QB Income Account is not empty QuickBooks Income Account = the part's pc/MRP's Income Account Select QbAccounts and check the above accounts Case the parts pc/MRP Asset/Exp account is empty If it is a labor part Partno is an outside labor item that cannot be exported to QuickBooks because it does not have an asset/expense account set in inventory. If it is a non-labor part Partno is a non-inventory part that cannot be exported to QuickBooks because it does not have an asset/expense account set in inventory Case the expense account not found in QuickBooks: Partno: (Partno) references an asset/expense account (lcExpense) that does not exist in QuickBooks. Case the expense account is not active in QuickBooks Partno: (Partno) references an account (lcExpense) that exists in QuickBooks but is not active Case the income account is not found in QuickBooks PartNo: (Partno) references an account (lcIncome) that does not exist in QuickBooks. Case the expense account is empty PartNo: (ExportCursor.Partno) does not reference a valid asset/expense account.

#### 16.16.5.7 QuickBooks Tab on the Partmaster Screen Pseudo Code -

pc/MRP Version 8.15A and higher no longer query QuickBooks for a list of accounts from QuickBooks every time you click on pc/MRP's Inventory Module's QuickBooks Tab. Instead it uses a permanent copy of QuickBooks Chart of Accounts named QbAccountsDbf.dbf that is created whenever it does not exist; invoices are exported to QuickBooks, receivers are exported to QuickBooks, or pc/MRP's Default Chart of Account Settings are accessed.

Advantages creating a dbf file for the partmaster screen Faster, no need to establish a connection to QB Computers without a copy of QuickBooks can access QB Account Info Advantages of continuing to use cursors in all other instances No concurrency issues

#### Partmaster screen QuickBooks() (Code for cached copy of QB parts and accounts in yellow)

PartScr.Page6.Activate()

IF !USED("QbAccounts")

IF(!FILE2("QbAccountsDbf.dbf") OR !FILE2("QbPartsDbf.dbf"))

QbAccountsPopulate() ObPartsPopulate()

ELSE

Create QbParts cursor and QbAccounts cursor from dbfs Creates AcctType Index for QbAccounts cursor

ENDIF

ENDIF

QbAccountsCombobox.Vcx LoadList() Select QbAccount Set Order to AcctType PartScr.Release() Closes QbAccounts and QbParts

#### **QbAccountsPopulate():**

If QbAccounts is not used Create a new QbAccounts Cursor If this function is called by Qb\_Export() Create a new QbAccountDbf.dbf file Closes QbAcccountsDbf

#### **QbPartsPopulate()**

If QbParts is not used Create a new QbParts Cursor If this function is called by Qb\_Export() Create a new QbPartsDbf.dbf file Closes QbPartsDbf

#### **16.16.6 Troubleshooting**

Creating response and request logs (when asked to by Software Arts, Inc.)

pc/MRP can fill an XML request log file if a blank file is created with Notepad exists in the pcmrpw directory with the same name as the function that produced the error with a .txt extension. To fill a response log file, create a blank file with the name QB\_SubmitRequest.xml. See QB\_Functions.QB\_WriteResponseLog(). The following is a list of functions that can fill a log:

QB\_AccountsPopulate QB\_BillsAdd QB\_ClassesPopulate QB\_CustomersPopulate QB\_DuplicateDetect QB\_EmployeesPopulate QB\_EXPORT QB\_HostQuery QB\_InvoicesAdd QB\_OtherNamesPopulate QB\_SalesTaxCodesPopulate QB\_ShipMethodsPopulate QB\_TermsPopulate QB\_VendorsPopulate

The command to render the .txt or .xml in indented XML would be entered into the command line as follows: STRTOFILE(INDENTXML(FILETOSTR("qb\_export.txt")),"qb\_export.txt")

#### 16.16.6.1 QuickBooks did not export the invoice, receiver or general ledger entry.

The invoice, receiver or GL entry had a cost of \$0.00. "Do not sell to Overdue Customers" is checked in QB, Edit, Preferences, Sales and Customers. Un-check this setting. Find the invoice, set batch number to 0, Complete to blank and send invoice over in next export.

#### 16.16.6.2 Member FullName did not evaluate to an object

An item such as a preferred vendor or sale tax code for the part was deleted; however, the part kept the link to the vendor (QuickBooks does not display the link field). Simply add a preferred vendor or sale tax code to the part or update to the latest version of pc/MRP.

#### 16.16.6.3 Multiple users cannot log into QuickBooks

- 1. Make sure you are in multi-user mode (select File and switch to multi-user mode).
- 2. Everybody, including pc/MRP, must login with a unique user name. Check user names: Select Company, Setup Users.
- 3. Un-select Automatic Update by selecting, File, Update Quickbooks, Options.

#### 16.16.6.4 List element is already in use . Error Code 3100

pc/MRP is trying to export an element (term, discount, item, customer, or vendor) that already exists in QuickBooks. If it is the same element type QuickBooks has and that element is marked as in-active. Edit that list and check the "Show All" checkbox. Change the name of the element or mark it as Active. If it is in another list, change either the QuickBooks or pc/MRP name.

# 16.16.6.5 The vendor invoice numbers on the receivers listed here already exist in QuickBooks and cannot be exported.

The vendor invoice numbers on receivers should be unique for each vendor from batch to batch (different vendors can have the same invoice number).

#### 16.16.6.6 Address exceeds 5-lines of 41-characters per line.

If necessary (because all first 4 lines of address are used), QuickBooks will attempt to put the city, state, zip, and country into the 5<sup>th</sup> line. These 4 fields with the spaces and commas that QuickBooks adds cannot exceed 41-characters. Or, use only 3 of the first 4 lines.

#### 16.16.6.7 Bill's due date not incrementing properly.

pc/MRP sends over 'NET 30' as one of its items to get it to increment properly in QuickBooks. Select 'Lists', Customer Vendor Profile, Terms, double-click on 'NET 30', and set the net due to 30.

#### 16.16.6.8 Error QB foundation class library not found.

If QBFC 13.0 is installed, remove it by going to the Windows Control Panel, selecting Add or Remove programs. Once it is removed, re-install it within pc/MRP by selecting Optional, QuickBooks Default Settings or run QBFC13\_0installer.exe in the pcmrpw directory. If all else fails, double-click on C:\Program Files\Intuit\QuickBooks Premier\re-boot.bat (your QuickBooks directory may be different).

#### 16.16.6.9 Error exporting receiver, duplicate invoice number in QB.

pc/MRP export to QuickBooks allows one Vendor Invoice number for one Receiver number. Two scenarios may crop up:

- Multiple invoice numbers for a multiple line receiver requires you to find the last receiver number (Modules, Receiver, Edit/View, scroll to bottom of list), add one to it and modify the receiver number and line number of the line item in question. **Option 74** must be set to allow modifying the Receiver number.
- Multiple receiver numbers for an invoice in the same batch requires you do #1 above and append a suffix, e.g. 'B', to the Vendor Invoice number of the receiver.

# 16.16.6.10 The QuickBooks Application has refused to allow access because the specified QuickBooks company file is already in use by another user.

- Start QuickBooks, select File and Switch to Single User Mode, then re-connect try the export again.
- pc/MRP stores the QBW path and name in a mapped drive or UNC mapped format and QuickBooks 'F2' function will show the QBW location in either mapped drive or UNC mapping format. Both locations must be the same. We recommend using the UNC drive format.
- QuickBooks is set to not close. Go to Edit, Preferences, General, and uncheck Keep QuickBooks running.
- As a last resort, rebuild the QuickBooks executable. Go to Control panel, Programs, QuickBooks, Remove, Rebuild.

# 16.16.6.11 Error accessing QuickBooks. The QuickBooks application could not be started and may be damaged.

- If you have a Windows Vista computer, click on the Start Button, Control Panel, User Accounts, and Turn User Account control On or Off, then reboot. After successfully accessing QuickBooks, change the setting back.
- Right-click on the pc/MRP desktop shortcut, select properties and ensure that the target and startup fields use UNC locations and not mapped drive locations. UNC locations are established by going through "Network" or "My Network Places" and not mapped drives.

#### 16.16.6.12 The pc/MRP application has not accessed this QuickBooks company data file before.

Follow the instructions in this Manual regarding initializing a connection to a QuickBooks file (16.16.2.7). You may have to remove pc/MRP from QB's integrated apps and reconnect pc/MRP.

# 16.16.6.13 QBFC 13.0 cannot be removed because it is not listed in the ADD/REMOVE program list, yet pc/MRP will not re-install QBFC@ when selecting Optional, QuickBooks, and Default Settings.

Click on the Windows Start button, select Run, enter 'REGEDIT ', select Menu Item EDIT, select FIND, enter QBFC 13.0, only check the 'Keys' checkbox, click the NEXT button. Select the QBFC 13.0.QBSessionManager, Select Menu Item File, Export, select a folder and give it a name to export the reg information (if something goes wrong, you can just double-click the reg file to merge it back into the registry). Rename the 'QBFC13\_0.QBSessionManager' to 'xQBFC13\_0.QBSessionManager'. Please note that there may be a 'QBFC13\_0.QBSessionManager.1' and this must be exported and renamed as well. Exit the Regedit program and run pc/MRP. Select Optional Modules, QuickBooks Export, Default Settings an pc/MRP will re-install the correct QBFC 13.0 program.

# 16.16.6.14 Starting QuickBooks gives the following error message: "You must log into Windows as a user with administrative privileges (error code (-6098,5).

Your copy of QuickBooks is not registered as Multi-user. With QuickBooks open, click on menu item Help, Support, and contact Intuit support.

# 16.16.6.15 QuickBooks Export Log (quickbooksexport.log) and / or QuickBooks Export Error Log (exportqberror.log) does not display.

This happens if the '.log' files are not associated with MS Notepad. To associate '.log' files with MS Notepad.

- 1. use Windows Explorer,
- 2. right-click on one of the '.log' files,
- 3. select Properties,
- 4. select Change,
- 5. select Notepad,
- 6. select OK.

#### **16.16.6.16 Error extracting information from the external accounting application.**

- Validate the QBW file. In QuickBooks, File, Utilities, Validate.
- Remove the QBFC 13.0 in Windows Control Panel, Add/Remove Programs. Let pc/MRP re-install it by selecting Optional, QuickBooks, Default Settings.
- QBPartsdbf.dbf is corrupt. Use Windows Explorer to delete this file in the pcmrpw directory and run the export again.

#### 16.16.6.17 Export Anomaly, the Export was unable to update the cache file.

QBPartsdbf.dbf or QBAccountsdbf.dbf could be locked or corrupt. Delete these two files in the pcmrpw directory. They will be re-created the next time an export is performed.

#### 16.16.6.18 Invalid characters were detected in the pc/MRP data as described below.

• This error occurs when pc/MRP is validating new parts (QBPARTS), Addresses (QBADDRESSES), and divisions (QBCLASSES) to be added to QuickBooks from pc/MRP. You will find that the field in the error message contains an illegal character, which could include a 'carriage return'. Simply edit the part's partnumber, address, or division in pc/MRP to delete the illegal character.

(please turn)

• If the error message lists the DESCRIPTION field, hard carriage returns were entered into QuickBooks' Part Descriptions and were imported into pc/MRP. If so, you can remove the carriage returns by entering the following commands at pc/MRP's Command Line screen:

USE PARTMAST REPLACE ALL DESCRIPT WITH CHRTRAN(DESCRIPT,CHR(10)," ") USE RECEIVE REPLACE ALL DESCRIPT WITH CHRTRAN(DESCRIPT,CHR(10)," ") USE INVOICE REPLACE ALL DESCRIPT WITH CHRTRAN(DESCRIPT,CHR(10)," ")

#### 16.16.6.19 Unable to switch to single-user mode in QuickBooks.

Files on the server may be locked and/or not able to release a link between applications. QuickBooks support suggests re-booting the server.

#### 16.16.6.20 The QuickBooks application can not be started and may be damaged.

Validate the QBW file in QuickBooks: While in QuickBooks, select File, Utilities, and Validate.

#### 16.16.6.21 PackageFromTheWeb Error Message

If you get this error message the QBFC 13.0.exe file has been corrupt (most likely by a virus). Call Software Arts, Inc and allow them to transfer QBFC13\_0installer.exe to your pcmrp directory and double click on it to install a new QBFC 13.0.exe file. If you can not delete the original QBFC13\_0installer, you may need to rename it to QBFC13\_0installer2.exe and double click on it.

#### 16.16.6.22 QuickBooks does not contain the invoice, receiver or GL entry

- The invoice, receiver or GL entry was valued at a cost of \$0.00.
- In one case, the customer's zip code was repeated in the country field. After the duplicate zip code was removed the invoice could be exported successfully.
- Invoice or Receiver was exported to another QuickBooks company QBW file. Hand enter the Invoice or Bill into QuickBooks
- Un-check Do not see to overdue customers in Preferences, Sales and Customers.

#### 16.16.6.23 QuickBooks cannot start because it is already running

- Set the User Account Control to Off, reboot the PC and try again.
- In QuickBooks select Edit, Preferences, General, My Preferences, and uncheck Keep QuickBooks running. Do this for every PC that uses QuickBooks. Reboot and try again.

#### 16.16.6.24 Can not view QB accounts when setting default QB accounts

• pc/MRP is not logged into QB with admin rights or full rights.

### 16.16.6.25 User does not have permission for this feature

If you are running 8.90z, 8.95K or lower: update for the latest revision, or return to Main Menu, go to a scroll window, then try to access this feature again.

# 16.16.6.26 Error Accessing QuickBooks; pc/MRP is not allowed to automatically log into the selected QuickBooks company data file.

If you are trying to establish a pc/MRP QuickBooks Connection, Turn off User Account Control (Control Panel, Change User Account Settings, drag the bar down to Never Notify" and reboot the PC). Try to establish the connection again. You can then return the User Account Control Setting back to its original setting.

16.16.6.27 When testing the connection you get the message: This pc/MRP application has not accessed this OuickBooks company data file before. Follow the instructions in the pcmrp manual regarding initializing a connection to a QuickBooks file.

You might not be logged in as Admin into QuickBooks.

#### 16.16.6.28 Can not open company file.

You may have 2 copies of QuickBooks installed on your work station. pc/MRP will bind to the newest version of QuickBooks. If your QBW file is installed on the server and it is formatted for the older version, pc/MRP will not be able to connect to the QBW file formatted for the older version of QuickBooks. Install or update the New QuickBooks Database Server Manager (QBDBSM) on the server containing the older version QBW file. QuickBooks Database Server Manager is responsible for creating Network Data files (\*.nd) for any company files stored on the host computer. Your new desktop version of QuickBooks will use the new QuickBooks Database Server Manager to access the .nd and .OBW files on the server. From then on everybody must use the new version of OuickBooks.

The following link will explain how to:

- 1. Install OR update QuickBooks Database Server Manager
- 2. Setup the QuickBooks Database Server Manager to scan and monitor QB folders

https://community.intuit.com/articles/1502079-install-update-and-set-up-the-quickbooks-database-server-manager

#### 16.16.6.29 Error ##ID\_STRING7## when trying to install the QBFC File

You have a copy of Install Shield on your computer. Use another computer or rename or delete the InstallShield Folder and rung a known good commercial registry cleaner (not an online free registry cleaner). This folder may exist C:\Program Files (x86)\Common Files\InstallShield

#### 16.16.6.30 Error QuickBooks already has the company file open.

Do not set both pc/MRPs and Quickbooks Shortcut to "Always run as

#### 16.16.6.1000 Warning, Response Status Code = 1000

This error message displays when exporting to QuickBooks or selecting the QuickBooks tab in the Address Book module.

- Reboot the computer that pc/MRP and QuickBooks is installed on. •
- Call QuickBooks's support representative at 1-888-859-4056 and request the technical support person to process the Microsoft.Net Removal Fix procedures. (Microsoft.Net and QuickBooks need to be removed and re-installed) See solution at:

http://support.guickbooks.intuit.com/support/pages/knowledgebasearticle/1008898.

#### 16.16.6.1924 LO Response is not an object (error 1924)

You do not have QuickBooks set to allow pc/MRP to login. Repeat step 7 (16.16.2.7).

#### 16.16.6.1426 or 1429 OLE error

- Occurs after a un-install and re-install of QB or a QB upgrade. •
  - 1. Must un-install QBFC 13.0 via the Windows Control Panel, Add or Remove Programs.
  - 2. Run QBFC13 0Installer.exe from the pcmrpw directory. Or, restart pc/MRP, select Optional, QuickBooks, Default Settings and allow pc/MRP to re-install QBFC 13.0
  - If it is none of the reasons listed below, be sure to note the name of the .fxp file, the line number and message prior to calling Software Arts

- If the error message says 'String too long', the phone number in pc/MRP exceeds 21 characters. If you have an extension for the phone number, the phone number <u>and</u> the extension must not exceed 19 characters as a space and an 'x' are inserted. This is a limitation for the QuickBooks interface only. Do a Controll-F12 while the error message is displayed to find the address book id for the phone number to fix.
- Trying to export a receiver or invoice into QuickBooks whose date is prior to the QuickBooks close date found in Preferences, Accounting, and Company Preferences.
- Receiver contains a quantity of 0.
- QuickBooks Administrator is already logged into QuickBooks and pc/MRP is trying to log in as the Administrator.
- If error occurs when testing the QB connection and all else fails, remove the pc/MRP connection from QB and set up the connection again as per Section 16.16.2 Steps 6 and 7.
- If the error message includes the words Idispatch qbxml ole the .qbw file may be corrupt. Call QuickBooks Technical Support to verify your qbw file. If you have a qbwin.log in the QuickBooks directory, rename it. Start QuickBooks, select File, Backup, select Verify. When the backup and verify option is done, Press Control 1, Press Control 2, select the Open File Tab, open the qbwin.log file. See if you have any broken links such as an invoice whose customer was deleted. If you receive a message that the verification has failed (The Verify Data Utility returns a b-check error), select Utilities and Rebuild.
- Error connecting to QuickBooks with a Vista computer. Go into the Computer's Control Panel, select Users, turn the User Account Controls ON and re-boot the computer.
- If the error message includes the words "QB\_SubmitRequest" and you are at Step 2 of 26, press Ctl-F12, search for invoice or receiver number and look at that document for any non-ASCII characters such as boxes, smiley faces, etc. Delete those characters and re-export.
- If the error message includes QB\_CustomersPopulate, and contains the words "unexpected agg tag",
  - 1) The .QBW file's Sale Tax Code no longer functions due to the 2009-R7 QB patch.You can no longer add a new customer. The fix is to:
    - a. Start QB, select Vendors, Sales Tax, Manage Sales Tax.
    - b. Add a new taxable Sales Tax Code
    - c. Add a new non-taxable Sales Tax code.
    - d. Delete both of the new codes you just entered.
    - e. The problem will have now resolved itself.
    - 2) There are foreign characters in the QB customer address. Export the QB customers to Excel or to an IIF file (cust.iif). Call Software Arts.

The allowable ASCII characters for Addresses, Part numbers, Phone numbers, and Description fields are: upper & lowercase alpha 65(A)-90(Z), 97(a)-122(z), numeric 0-9, and these special characters:

# ,./<>?;':()[]{}-=\_+!@#\$%^&\*"/

The IIF file can be mined for special characters by using the Developer Menu Toolbox, File Tools, Character Counter, Find Characters by line and output the identified lines to a separate file. Now you can delete the foreign characters in QB customer records.

If you found the bad character, grab it with Ctrl-C. At the command line type ? ASCII(\_cliptext). Then use the following (or a similar) command (assuming that the field is partno and the ascii code is 233): REPLACE ALL partno WITH CHRTRAN(partno, CHR(233), "") This will solve the QB export problem. To change the bad partno in every module, use the Change Part Number function, scroll for the bad part number and <u>type in</u> the part number.

- If the error message involves QB\_DUPLICATEDETECT, check the 'qbsdklog.txt' file. Verify the QBW file by selecting File, Utilities, and Verify. If the file is corrupt, contact Intuit for help re-building your QBW file.
- If the error message includes the words "Class VendorRef got **unexpected agg tag id**-1()...", and you have QB 2009 R3 or higher (*press F2 to get the version release information screen*), one or more vendors have accounts prefilled that must be cleared.
- If the error message includes the words "QB\_EMPLOYEESPOPULATE...classEmployeePayrollInfo got **unexpected tag id** -1 ()...", and you have QB 2008 R6 or higher (*press F2 to get the version release information screen*), in QuickBooks, select Edit, Preferences, "Integrated Applications", "Company Preferences" tab, delete the first connection to pc/MRP, select the second pc/MRP connection, click the "Properties" button, and uncheck the "Include Social Security Number" checkbox. Click "OK" twice.

- If the error message indicates an invalid Certificate or invalid Digital Signature, the pcmrp.exe file is corrupt (most likely by a virus). To check this, use Windows Explorer and right click to on the pcmrp.exe file. Select Properties, select Digital Signature. Update to the latest revision or version of pc/MRP or replace the pcmrp.exe file from a back-up.
- If you are exporting invoices or receivers and are at step 25, and the error message includes the words 'OLE **Dispatch**' and '**qb submit request**', create a file named **qb\_invoicesadd.txt** or **qb\_billsadd.txt** in the pcmrpw directory, export invoices again, open up the 'txt' file and look for the bad characters causing the problem. pc/MRP will display the problem invoice or receiver number and the 'txt' file will automatically contain the bad characters.
- If the error message says "OLE IDispatch exception code 0 from QBFC13\_0.QBSessionManager.1: qbXML components have not been installed..." (also see 16.16.6.1928):
  - 1. Uninstall and reinstall the QBFC 13.0 file according to the first bullet in this section. If that doesn't help:
  - 2. Try to find any .TLG files in the C:\users\public\public documents\intuit\quickbooks\company files folder and rename them to have an .XXX extension. If this does not help
  - 3. You might need to uninstall then reinstall QuickBooks. Select Control Panel, and start uninstalling QuickBooks. If it offers to "repair" or "uninstall", try repair first.
- If the error message says "OLE IDispatch exception code 0 from QBXMLRP2.RequestProcessor.2: This application is unable to log into this QuickBooks company data file automatically: Try to log into QuickBooks in a single user mode.
- If the error message is "PROCEDURE QB\_OPENSESSION QB\_FUNCTIONS.FXP" and says "OLE IDispatch exception code 0 from QBXMLRP2.: Recent changes to your configuration require you (the QuickBooks Administrator) to go into the Integrated Applications preferences and re-authorize your integrated application...": This error will happen if the QB admin password has been changed. Reconnect the two programs the usual way.
- If the error message is "PROCEDURE QB\_PARTSPOPULATE QB\_FUNCTIONS.FXP" and says "OLE IDispatch exception code 0 from QBXMLRP2.RequestProcessor.2: There is not enough memory to complete the request...": On one occasion a reboot solved the problem.
- If the error message says "PROCEDURE QB\_EXPORT QB\_FUNCTIONS.FXP OLE IDispatch exception code 0 from QBFC13\_0.QBSessionManager.1: Request[0]: ItemNonInventoryAddRq ItemNonInventoryAdd Name: required field is missing End of ItemNonInventoryAdd" then make sure that only one copy of pc/MRP is trying to export into a QB file. The same invoice/bill document number might already exist in QB.

### 16.16.6.1928 QBFC...

• If the message contains: QBFC... The ticket parameter is invalid and you need to re-boot the computer. If that still does not work, back up the QBW file, then run the Utility Option, Re-build.

#### 16.16.6.1943 Member Account does not evaluate to an object

- Error message states vendor reference does not evaluate to an object. Press Ctl-F12 and see what 'lcitem' has as a 'Bill Number' in QB. Vendor name may be missing or invalid. Add the vendor to the 'Bill' in QB.
- Error message states Member does not evaluate to an object, Verify the QuickBooks Data.

#### 16.16.6.3090 Error 3090, Names in this list cannot contain a colon.

Delete the colon (:) in the QuickBooks Vendor and/or QuickBooks Customer fields on the QuickBooks tab of the Address Book.16.16.6.3100 Error 3100 Name already exists as a different list item. The vendor name, customer name, or partnumber name used in a pc/MRP Invoice or Receiver that you are trying to export into QuickBooks already exists in QuickBooks in a list (Item, Vendor, Customer) other than the list pc/MRP is trying to import it into. For example, you cannot export a part with a QuickBooks part id of 'DELL Computer' if QuickBooks already contains a vendor address with the name 'DELL Computer'. It could also be marked as in-active in QuickBooks.

#### 16.16.6.3100 Error 3100, List element is already in use.

pc/MRP is trying to export an element (term, discount, item, customer, or vendor) that already exists in QuickBooks. If it is the same element type QuickBooks has and that element is marked as in-active. Edit that list and check the "Show All" checkbox. Change the name of the element or mark it as Active. If it is in another list, change either the QuickBooks or pc/MRP name.

#### 16.16.6.3140 Error 3140, There is an invalid reference to a QB account.

Save and/or print out the XML error message and call Software Arts. The contents of the name field may exist in a list other than the list pc/MRP is expecting.

#### 16.16.6.3181 Error 3181, Could not add item to list. List contains the maximum number of items.

In QuckBooks press F2, this will show you the number of items entered. QuickBooks Pro and Premiere have a maximum number of 14,500 items (part and BOM records). QuickBooks Enterprise has a maximum number of 100,000 items QuickBooks Enterprise 2017 has a maximum number of 1,000,000 items Select File, Utilities, Verify Data If it finds a problem Select File, Utilities, Rebuild Data If there is still a problem, call QuickBooks you can either: They may suggest updating to Enterprise or condensing your data with their Condense Utility.

#### 16.16.6.3260 Error 3260, Insufficient permission level to perform this action

Make sure pc/MRP is set to log in as QB admin. Set QB to single user. Exit QB. Start pc/MRP. Export invoices and/or receivers.

#### 16.16.7 Special Cases

#### 16.16.7.1 Entering Customer Deposits in QuickBooks

Start QuickBooks, select Customer, select Receive Payments, and select a specific Customer. Enter the deposit amount. Do not apply the payment to an invoice. When the invoice is exported over to QuickBooks, apply the deposit. You must create a custom invoice template that displays amount paid and balance due by selecting Invoice, Customize, New, Footer, and check Payments and Balance Due.

#### 16.16.7.2 Entering Purchase Deposits in QuickBooks

Step 1 In QB, create a Purchase Deposit chart of account Type = Other Current Asset

Step 2 In pc/MRP, create a Purchase Deposit Part Number Type = Non Inventory QuickBooks Tab Asset/Expense Account = Purchase Deposit

From then on, whenever you need to include a deposit on a purchase order

In pc/MRP

Purchasing:

- 1. Make a purchase order line item one contains the part number, qty and unit cost.
- 2. Add a second line item for a positive qty of 1 and a negative dollar amount of the deposit
- 3. Add a third line item for a positive qty of 1 and positive dollar amount for the deposit

Accounting:

4. Accounting will receive the third line item (Modules, Receive, New, select 3rd line item) and enter unique vendor invoice number

- 5. Accounting will export the 3rd line item to QB as a Bill
- 6. Accounting will cut the check in QB for the deposit

Receiving:

7. Receiving will receive line items 1 and 2

Accounting:

8. Accounting will add the vendor invoice number to the receiver and export it to QB as a bill

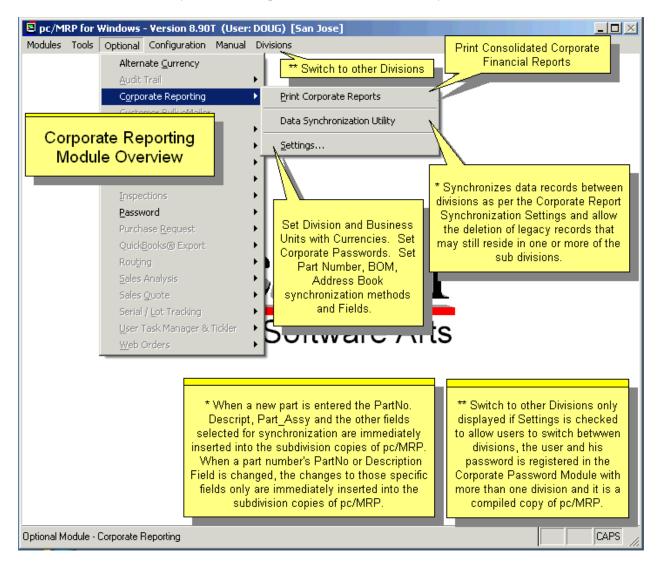
9. Accounting will cut a second check in QB for the amount of the goods minus the deposit.

# **16.17 Optional Corporate Enterprise Reporting Module**

#### 16.17.1 Overview

The Corporate Reporting Module allows companies to:

- Select one of three methods to have their parts list, BOMs and Addresses automatically synchronized across the world in real time.
- Switch from one division to another by selecting that division from the drop down menu.
- Print out consolidated financial reports for all divisions, business units, and the entire corporation. Currencies are automatically reconciled if pc/MRP's Alternate Currency Module is active.



The consolidated reports include:

- Profit and Loss (current period and YTD with variance to budget for current period and YTD for all divisions)
- YTD Expense and Revenue (current period and YTD with variance to budget for current period and YTD for all divisions)
- Trial Balance (current month and YTD for all reporting divisions)
- Balance Sheet (for all reporting divisions)
- General Ledger (for the period for all reporting divisions)
- GL Transactions (for the period for all reporting divisions)

An online slideshow is located here: http://www.pcmrp.com/mrp101/corporateoverview.htm

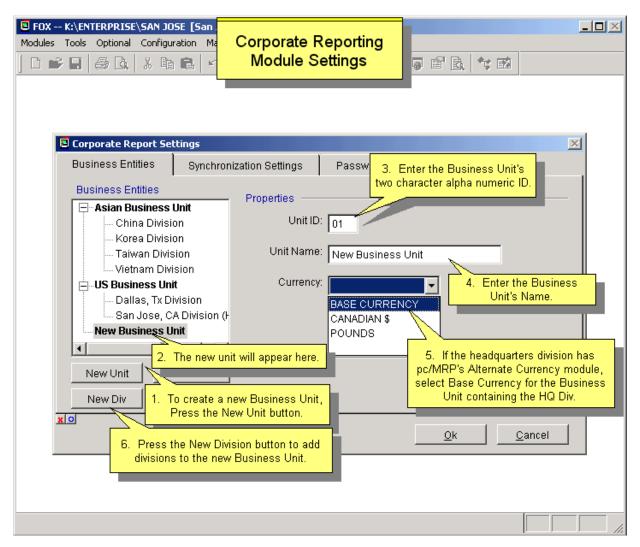
Select Configuration, Module Activation, and then Corporate Reporting Module from the menu. To activate this module, select Configuration, Module Activation, and Corporate Reporting. Then select "Free 10 day trial" or "Full activation" and enter the activation code number supplied by Software Arts.

Only the Corporate Headquarters' copy of pc/MRP is activated. The divisional copies of pc/MRP do not need to activate the Corporate Reporting Module.

To set your Corporate Enterprise default settings, select Optional, Corporate Reporting, and Settings.

#### 16.17.2 Setup

#### **Step 1. Creating Business Units**

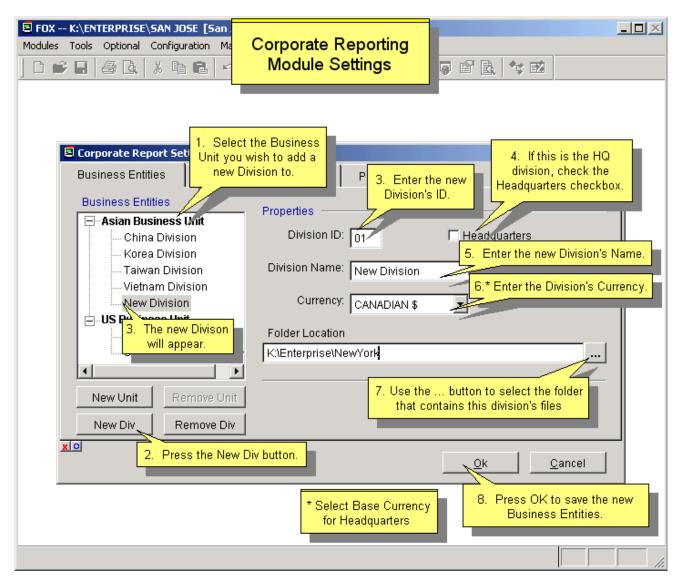


A company <u>must create one or more</u> Business Units. Business Unit(s) report to the entire corporation. Divisions report to the Business Unit(s).

To enter a new Business Unit, click on the "New Unit" button. Enter the two-character Unit ID field and the Business Unit Name. If the Headquarters Division has pc/MRP's Alternate Currency Module, select the currency for the new Business Unit. The Base Currency is the currency used by the Headquarters division. The 2-character Unit ID field must be unique among both Divisions and Business Units.

To remove a Business Unit, select the Business Unit and then click on the "Remove Unit" button. All Divisions reporting to that Business unit will be removed as well. Page 912 pc/MRP

#### Step 2, Creating Divisions



Divisions report to Business Units. One division must be checked as the Headquarters Division. This division is the only division that will contain an active Corporate Report Module. This division must exist in the current default directory when it is created.

To enter a new Division, click on a Business Unit and then click on the New Division button. Enter the 2character Division ID field and the Division Name. The 2-character Unit ID field must be unique among both Divisions and Business Units.

You can scroll through your network to get a UNC path or a mapped drive to get a drive path to the folder containing the division's pc/MRP files. The UNC path is preferable because not all computers may have similar mapped drives.

If the Headquarters Division has pc/MRP's Alternate Currency Module, select the currency for that division. The Headquarters Division must select "Base Currency". If other divisions work in the same currency as the Headquarters Division, you must select "Base Currency" as their currency.

You cannot create more divisions that you are licensed for. To increase your division license count you must call Software Arts to purchase an additional copy of pc/MRP and an additional enterprise license. Software Arts will give you a new activation code number. You can then increase your division count by following one of the two methods below:

- Method 1 Open the HQ division. Select Configuration, Module Activation, select Corporate Report module, and select Deactivate. Then reactivate the Corporate Report module with your new activation code number by selecting Configuration, Module Activation, Corporate Report, Activate, and enter your new activation code number.
- Method 2 Open the HQ division. Select Optional, Corporate Reporting, and Settings, Select the HQ division, double click on the word Properties, and enter your new activation code number.

To get the activation code, Software Arts personnel must set the Seat Count to the total number of divisions and check the Corporate Reporting checkbox.

If none of your divisions use alternate currency, there is no need to purchase pc/MRP's Alternate Currency Module.

If one or more of the divisions use a different currency than the HQ division, the HQ division should purchase pc/MRP's Alternate Currency module. The HQ division and all divisions using the same currency as the HQ division must be set to Base Currency. Divisions using alternate currency must be set to that currency. These alternate currency divisions do not need to purchase pc/MRP's base currency module, unless they have vendors and or customers that use alternate currencies. The alternate currency divisions would always set their own currency as their base currency in their own copy of pc/MRP's Alternate Currency module.

#### Step 3, Part and BOM synchronization settings

Corporate Reporting Module Settings Module Settings and BOMs between divisions.	×
Corporate Report Settings	
Business Entities Synchronization Settings Password Settings	1
Inventory & BOM Synchronization       Inventory & BOM lists independently         Inventory items and Bills of Materials can be created by the Headquarters division only       Inventory items and Bills of Materials can be created by the Headquarters division only         Each division can create a part and it will be propagated to other divisions. Only the Headquarters division can edit part numbers & part descriptions. Bills of Materials can be defined or edited by the Headquarters division only.         Address Synchronization       Inventory Each division defines its own Address list independently         Address Sync Fields       Address Sync Fields	
<ul> <li>Addresses can be created by the Headquarters division only</li> <li>Each division can create an Address and it will be propagated to other divisions. Only the division which created the address and the Headquarters division will be authorized to edit the address.</li> </ul>	
Originally, pc/MRP was designed to sync BOMs and Parts that were manually entered into the HQ Division. Imported BOMs were not synced. The Synchronization Utility was added to support Option 1 and blocked for Option 2 and 3. On 10/01/2015 Versions 8.90AJ, 8.95U allowed Options 2 and 3 to Import Inventory, BOMs, Addresses and Sales Orders. After importing BOMs make sure to sync both BOMs and Parts using the Corporate Synchronization Utility. After importing sales orders, make sure to sync Parts and Addresses using the Corporate Synchronization Utility. On 11/06/2015 Version 8.96E removed the option to import data with Options 2 and 3 due	
to the fact that all divisions would need to be under admin lockout when syncing.	//.

Select the "Synchronization Settings" tab and select the method you wish to use to synchronize your part numbers, BOMs and Addresses between divisions.

Inventory and BOM:

Selecting the top radio button will allow each division to control their own partmaster and BOM database files with no synchronization between divisions.

Selecting the middle radio button will allow only the HQ division to create part numbers and BOMs. If HQ edits a part, the Part Number and Description fields are propagated. The new and edited part numbers and BOMs will be propagated to all other divisions within seconds. The other divisions can edit all of the fields for a part with the exception of the part number and description fields. Other divisions are not allowed to edit BOMs.

Selecting the third radio button will allow all divisions to create part numbers. The new part numbers will be propagated to all other divisions within seconds. Only the HQ division can create and edit BOMs.

**Note:** If the second or third option is selected, only HQ will be able to import parts and BOMs (using Configuration, Option 40). After importing parts, make sure you use the Synchronization Utility to synchronize Inventory. After importing BOMs, you will need to synchronize both BOMs and Inventory.

#### Addresses:

Selecting the top radio button will allow each division to control their own addresses with no synchronization between divisions.

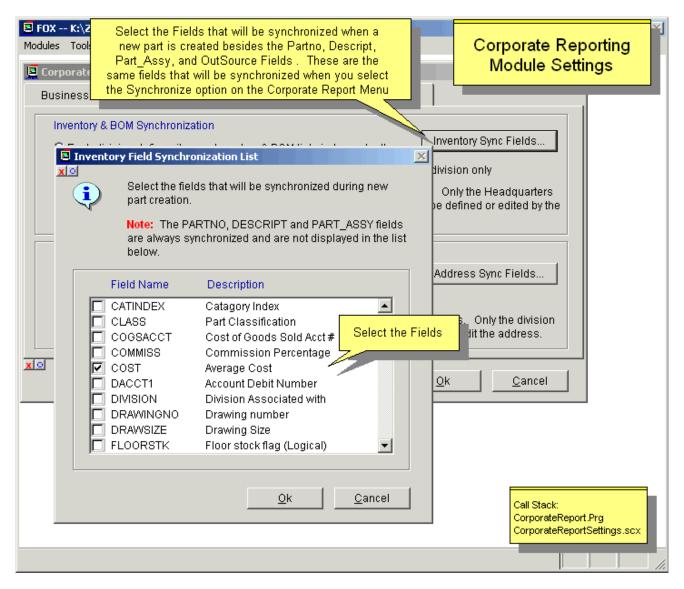
Selecting the middle radio button will allow only the HQ division to create address records. If HQ edits an address, the ID, Name, Start Date, Division fields are propagated. The new and edited addresses will be propagated to all other divisions within seconds. Other divisions are not allowed to edit addresses.

Selecting the third radio button will allow all divisions to create address records. The Division will be filled out automatically, and will identify the creator division. The new address will be propagated to all other divisions within seconds. Only the creator and the HQ can edit addresses.

**Note:** If the second or third option is selected, only HQ will be able to import addresses (using Configuration, Option 40). After importing addresses, make sure you use the Synchronization Utility to synchronize the Address Book.

**Note:** If either divisions import e.g. Sales Orders, HQ will need to synchronize Inventory and the Address Book, as new addresses and/or parts might have been added.

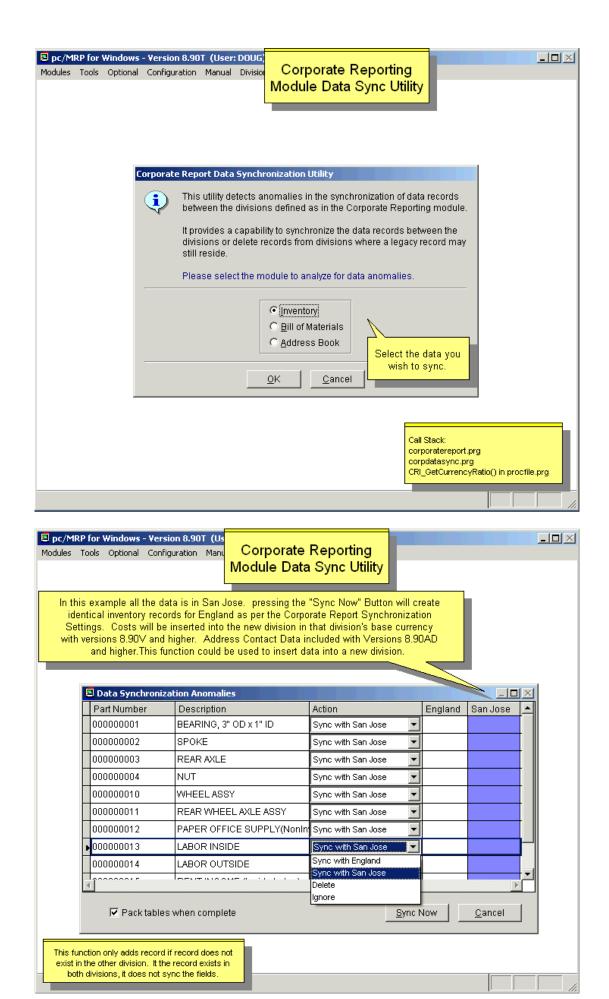
#### Step 4, Propagating Additional Partmaster or Address Fields



Select the Inventory Sync Fields button to check the fields you want propagated. The Part Number, Description, Part\_Assembly and Outsource fields are propagated to the other divisions automatically when a part is created. The fields selected by the Inventory Sync List are propagated when a part is created but not when a part is edited. If you edit a part, the Part Number and Description fields are propagated.

Select the Address Sync Fields button to check the fields you want propagated. The ID, Name, Start Date and Division fields are propagated to the other divisions automatically when an address is created. The fields selected by the Address Sync List are propagated when an address is created OR when an address is edited.

**Note:** Synchronizing Inventory/BOMs or Addresses (along with the Sync Fields buttons) are disabled for Synchronization Setting # 1.



### Synchronization rules for Setting #3

#### Address Book

Each Division can create an address, it will be propagated to other divisions. Only the Division that created the address and HQ can edit the address.

HQ and or DIV Creates new Address ID,Name,StartDate,Division + checked fields are propagated to DIVs. * ^ Division will contain the Unit+Div Number to identify the creator DIV
HQ and or DIV Edits an address Name,Start Date + checked fields are propagated to DIVs. * DIV can only edit addresses it created.
HQ and or DIV marks an address for deletion Deletion will be propagated DIV can only mark addresses for deletion that it created.
HQ and or DIV removes marked addresses Records will be removed regardless of who created them. Removals will not be propagated
* Currency amounts (CredLim, YR_Quota) if checked, will be propagated to each unit's base currency ^ If checked, Contact fields will be included
Inventory Each Division can create parts, Only HQ can edit part numbers and part descriptions
HQ Creates new part PartNo,Descript,Part_Assy,OutSource+checked fields propagate to DIVs * DIV Creates new part PartNo,Descript,Part_Assy,OutSource+checked fields propagate to HQ and DIVs *
HQ Edits a part PartNo,Descript propagate to DIVs. Remaining fields do not propagate to DIVs. DIV Edits a part No propagation to HQ or other DIVs, DIV can not edit PartNo, Descript or mark a part for Deletion
HQ Marks or un-marks a part for deletion Part will be marked or un-marked for deletion in DIVs DIV can not mark a part for deletion
HQ Removes part records marked for deletion - Records removed in HQ but not in DIV DIV Removes part records marked for deletion - Records removed from DIV but not in HQ or other DIVs
* Costs, (ave, std, etc) if checked, will be propagated to each unit's base currency
BOMS: Bills of Materials can be defined and or edited by Headquarters only.
HQ creates a new BOM Everything will be propagated to the DIV, including BOM costs DIV cannot create a new BOM
HQ edits a BOM New item, qty change, deleted (marked) item – propagate to DIVs Changing HQ inventory cost or BOM cost will not propagate HQ deletes (marks) an entire BOM - BOM records in DIV will be marked for deletion
DIV cannot edit a BOM. DIV can not delete (marks) an entire BOM
HQ recalls entire BOM - BOM records in DIV will be un-marked - DIV can not recall an entire BOM
HQ removes marked BOM records - Records get removed from HQ only

DIV removes marked BOM records - Records get removed from DIV only

The Divisions menu can be enabled or disabled with the "Allow users to switch between divisions" checkbox below.       Click on the Password Settings to set the Enter, Edit, and Delete Passwords for each Division.         Electroporate Report Settings       Password Settings         Business Entities       Synchronization Settings       Password Settings         Business Entities       Synchronization Settings       Password Settings         BiLLY       Horea Division       / / N       N         BiLLY       Horea Division       Asian Business Unit       N         BiLLY       Horea Division       Asian Business Unit       N         BiLLY       Horea Division       Asian Business Unit       D         BiLLY       Horea Division       Asian Business Unit       D         BiLLY       Horea Division       Asian Business Unit       D         BiLLY       Horea Division       Users Note that Doug can       China Division       US Business Unit         BiLLY       Horea Division       10/17/2003       D       D         Doug       Net that Doug can       Dallas, Tx Division       10/17/2003       N         Doug       Net that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Allow users to switch	odules Tools Option	ISE\SAN JOSE [San Jo nal Configuration Man A X Pa R V	ual Divisions		<b>.</b>	*; 🛐		
Business Entities       Synchronization Settings       Password Settings         User Name       Password       Employee ID       Location       Last Update       Inventory       BM         BILLY       ********       China Division       Asian Business Unit       N       N         BILLY       ********       China Division       Asian Business Unit       N       N         BILLY       ********       Dallas, Tx Division       Use Business Unit       Dallas, Tx Division       USe Business Unit         BILLY       ******       Dallas, Tx Division       USe Business Unit       Dallas, Tx Division       D         BILLY       ******       China Division       10/17/2003       D       D         DOUG       Note that Doug can       Taiwan Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	disabled with between di	) the "Allow users to s visions" checkbox be	switch		to set the	e Enter, Ec	lit, and Dele ch Division.	ete
BILLY       Korea Division       / / N       N         BILLY       ********       China Division       Asian Business Unit         BILLY       ********       Korea Division       Asian Business Unit         BILLY       ********       Forea Division       Asian Business Unit         BILLY       *********       Forea Division       Asian Business Unit         BILLY       *********       Dallas, Tx Division       US Business Unit         BILLY       ******       Dallas, Tx Division       US Business Unit         BILLY       ******       Dallas, Tx Division       US Business Unit         BILLY       *****       Dallas, Tx Division       10/17/2003       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.		ĩ	nization Settings	Password Sett	ings			
BILLY       Korea Division       I//       N       N         BILLY       Korea Division       Asian Business Unit         BILLY       San Jose, CA Division US Business Unit         BILLY       China Division       10/17/2003         DOUG       Note that Doug can       Taiwan Division       10/17/2003         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N         New       Delete       Control password accounts at the Corporate Level         Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	User Na	me Password	Employee ID	Location	Last Update	Inventory	вом 🔺	
BILLY       China Division       Asian Business Unit         BILLY       Herring Division       US Business Unit         BILLY       Herring Division       US Business Unit         BILLY       Herring Division       10/17/2003         DOUG       Herring Division       10/17/2003       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	BILLY	******		Korea Division	• • • • •	N	N	
BILLY       Taiwan Division       Asian Business Unit         BILLY       *******       Vietnam Division       Asian Business Unit         BILLY       *******       Dallas, Tx Division       US Business Unit         DOUG       ****       China Division       10/17/2003       D         DOUG       Note that Doug can       Taiwan Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	BILLY	******		3				
BILLY       Haiwan Division       Asian Business Unit         BILLY       Vietnam Division       Asian Business Unit         BILLY       Dallas, Tx Division       US Business Unit         DOUG       Haiwan Division       10/17/2003       D         DOUG       Haiwan Division       10/17/2003       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         DOUG       Note that Doug can       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	BULY	******						
BILLY     Dallas, Tx Division     US Business Unit       BILLY     San Jose, CA Divisior US Business Unit       DOUG     China Division     10/17/2003       DOUG     Note that Doug can     Taiwan Division     10/17/2003       DOUG     Note that Doug can     Dallas, Tx Division     10/17/2003       DOUG     Note that Doug can     Dallas, Tx Division     10/17/2003       DOUG     Note that Doug can     Dallas, Tx Division     10/17/2003       DOUG     Note that Doug can     Dallas, Tx Division     10/17/2003       New     Delete     Control password accounts at the Corporate Level       Allow users to switch between divisions     To control passwords at the corporate level only check this checkbox.		******		<b>H</b> · · · · · · · · · · · · · · · · · · ·				
BILLY       San Jose, CA Divisior US Business Unit         DOUG       ****         DOUG       Note that Doug can access 3 Divisions.         DOUG       Note that Doug can access 3 Divisions.         DOUG       Note that Doug can access 3 Divisions.         Doug       Control password accounts at the Corporate Level Allow users to switch between divisions         To enter a new password, click the       To allow users to switch between divisions, check		****						
DOUG       China Division       10/17/2003       D       D         DOUG       Note that Doug can access 3 Divisions.       Taiwan Division       10/17/2003       N       N         DOUG       Note that Doug can access 3 Divisions.       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions       To control passwords at the corporate level only check this checkbox.	BILLY							
Note that Doug can access 3 Divisions.       Dallas, Tx Division       10/17/2003       N       N         New       Delete       Control password accounts at the Corporate Level       Allow users to switch between divisions         To enter a new password, click the       To allow users to switch between divisions, check       To control passwords at the corporate level only check this checkbox.	DOUG	*****		China Division	10/17/2003	D		
DOUG       access 3 Divisions.         Dallas, Tx Division       10/17/2003         New       Delete         Allow users to switch between divisions         To enter a new         password, click the             To enter a new             To enter a new             Delete             To enter a new             password, click the             Delete             To enter a new             Delete             Delete             To enter a new             Delete <td>DOUG</td> <td></td> <td></td> <td>Taiwan Division</td> <td>10/17/2003</td> <td>N</td> <td>N</td> <td></td>	DOUG			Taiwan Division	10/17/2003	N	N	
Allow users to switch between divisions To enter a new password, click the To ente	DOUG			Dallas, Tx Division	10/17/2003	N	N	
Allow users to switch between divisions To enter a new password, click the To ente					ł	1		
To enter a new password, click the between divisions, check this checkbox.	New	Delete					evel	
	To pass	word, click the		between divisions,	switch i c check	orporate le	evel only che	

Select the "Password Settings" tab to enter and edit passwords for the entire corporation. Each division must have their own pc/MRP password module. The above passwords are simply a consolidation of each division's Password Module.

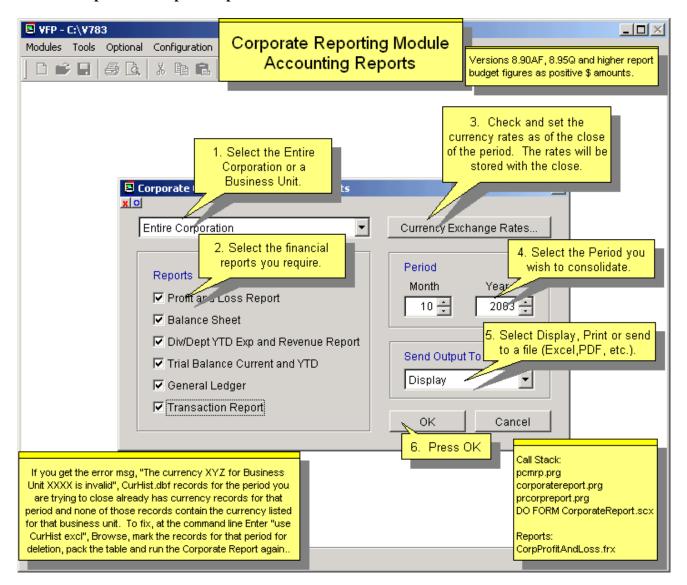
If the "Control password accounts at the Corporate Level" checkbox is not checked, passwords are managed at the division level. If it is checked, all passwords are controlled at the HQ division.

To enter a new password, click the "New" button. If the password's Location references another division, that division's password module will be updated.

If a person is to have access to multiple divisions, you should set up the same name and password for each division. That way if a user changes his password, it is automatically propagated to all divisions and he will be allowed to switch from division to division without re-logging in.

#### 16.17.3 Reports

**Consolidated Corporate Enterprise Reports** 



To print consolidated corporate financial reports, select the "Print Corporate Reports" option on the "Corporate Reports" menu. pc/MRP will display the "Corporate Consolidated Financial Reports" window shown above. Select the Entire Corporation or one of the Business Units. Check which reports you want to display and or print. Select the report period.

If you have the Alternate Currency Module, press the "Currency Exchange Rates" button to check and or set the currency rate as of the last date of the period being consolidated. The rates are stored along with the consolidation data. If you were to reprint this period's consolidation reports, the stored rates would be used again, unless you were to adjust the rates again.

All divisions must have the same start of fiscal year. Not all divisions have to close on the same date. A warning message will be displayed if one or more of the divisions do not have a close for that period, however, pc/MRP will give you the option to print or display consolidated reports without those divisions. Select Display or Print output and press the OK button.

## **Corporate Profit and Loss Report**

COHESIVE TECHNOLOGIES IN D/08/2003           DESCRIPTION         CONSIGN INCOMPTANCE           ECT         INSCRIPTION         CONSIGN INCOMPTANCE           INCOMPTANCE         5000.00         12000           INVISION ASCH TUTALS:         5000.00         12000           INVISION ASCH TUTALS:         5000.00         12000           INVISION ASCH TUTALS:         10000.00         2000           INVISION VSEL TUTALS:         10000.00         2000           INVISION VSEL TUTALS:         0.00         -3950           INVISION ASCH TUTALS:         0.00         -3950           INVISION ASCH TUTALS:         0.00         -2900	EADERT JIR RADEL SAME	age: 1
JOB/2003           D EXPENSE AND REVENUE REPORT 10/03 FOR Entire Corporation           EUT         DESCRIPTION           EUTSEN SCO         OUTSES           EUTSEN SCO         OUTSES            EUTS		
D         EXPENSE AND REVENUE REPORT 10/03 FOR Entire Corporation           CCT         INSCRIPTION         CURRENT HOWNER         Y77           ARMA         INSCRIPTION         NONTH         Y77           ARMA         INSCRIPTION         SUBMERS         10000.00         12500           INUISUR ASUR TOTALS:         5000.00         12500         12500           INUISUR ASUR TOTALS:         10000.00         25000           INUISUR ASUR TOTALS:         10000.00         25000           INUISUR ASUR TOTALS:         10000.00         25000           INUISUR VSGJ TOTALS:         15000.00         15000           INUISUR ASUR TOTALS:         0.00         -3950           INUISUR ASUR TOTALS:         0.00         -3950           INUISUR ASUR TOTALS:         0.00         -7960           INUISUR ASUR TOTALS:         0.00         -7960           INUISUR ASUR TOTALS:         0.00         -7960           INUISUR ASUR TOTALS:         0.00         -2960           INUISUR ASUR TOTALS:         0.00         -2		
CET         INSCRIPTION         CONCRET           ACTUM         MDNTH         YTD           ACTUM         INTICUT         SUBNTH         YTD           ACTUM         INTICUT         SUBNTH         YTD           ACTUM         INTICUT         SUBNTH         YTD           INTICON         ASED         TOTALS:         5000.00         125000           INTICON         ASED         TOTALS:         3333.00         6332           INTICON         ASEN         TOTALS:         34000.00         25000           INTICON         ASEN         TOTALS:         34000.00         25000           INTICON         ASEN         TOTALS:         34000.00         25000           INTICON         VSET         TOTALS:         34000.00         25000           INTISUN         VSET         TOTALS:         15000.00         110632           ACTUR         VSET         TOTALS:         0.00         -3950           INTISUN         ASEN         TOTALS:         0.00         -26390           INTISUN         ASEN         TOTALS:         0.00         -2690           INTISUN         ASEN         TOTALS:         0.00         -2900 <t< th=""><th></th><th></th></t<>		
ECT         INSCRIPTION         CONSIGNT NONTH         YTD           HEIT         INSCRIPTION         NONTH         YTD           HUITSUR         ASUN         SOUDON         12500           HUITSUR ASUN TOTALS:         10000.00         25000           HUITSUR ASUN TOTALS:         10000.00         25000           HUITSUR ASUN TOTALS:         10000.00         25000           HUITSUR ASUN TOTALS:         14000.00         25000           HUITSUR VSEN TOTALS:         14000.00         25000           HUITSUR VSEN TOTALS:         14000.00         25000           HUITSUR VSEN TOTALS:         15000.00         15000           HUITSUR VSEN TOTALS:         0.00         -3950           HUITSUR ASUN TOTALS:         0.00         -3950           HUITSUR ASUN TOTALS:         0.00         -2900           HUITSUR ASUN T		
ECT         INSCRIPTION         NOVIN         YTH           UNTIME		
INTINUE ASUR TUPALS:         5000.00         12500           INTINUE ASUR TUPALS:         10000.00         25000           INTINUE ASUR TUPALS:         3333.00         6332           INTINUE ASUR TUPALS:         10000.00         25000           INTINUE ASUR TUPALS:         15000.00         15000           EXEMPT ASUR TUPALS:         0.00         -3950           INTINUE ASUR TUPALS:         0.00         -3950           INTINUE ASUR TUPALS:         0.00         -29400           INTINE ASUR TUPALS:         0.00 <th></th> <th>אמע אי ערדע א</th>		אמע אי ערדע א
III ULISON ASIO TOPELS:       10000.00       25000         III ULISON ASIV TOPELS:       3333.00       6332         III ULISON ASIV TOPELS:       10000.00       25000         III ULISON ASIV TOPELS:       10000.00       25000         III ULISON ASIV TOPELS:       10000.00       25000         III ULISON VSEJ TOPELS:       10000.00       15000         III ULISON VSEJ TOPELS:       15000.00       110032         III ULISON ASIV TOPELS:       0.00       -3950         III ULISON ASIV TOPELS:       0.00       -3950         III ULISON ASIV TOPELS:       0.00       -2900         III ULISON ASIV TOPELS:       0.00       -5900         III ULISON ASIV TOPELS:       0.00       -5900         III ULISON ASIV TOPELS:       0.00       -5900         IIII ULI		
III VISON ASVY TOTALS:     3333.00     6332       III VISON ASVY TOTALS:     14040.00     25040       III VISON ASUN TOTALS:     14040.00     25040       III VISON ASUN TOTALS:     15040.00     25040       III VISON ASUN TOTALS:     15040.00     15040       III VISON ASUN TOTALS:     15040.00     16042       III VISON ASUN TOTALS:     0.00     -3950       III VISON ASUN TOTALS:     0.00     -3950       III VISON ASUN TOTALS:     0.00     -2638       III VISON ASUN TOTALS:     0.00     -2639       III VISON ASUN TOTALS:     0.00     -2940       III VISON ASUN TOTALS:     0.00     -5940       III VISON ASUN TOTALS:     0.00     -5940 <td>4409.40 8090.00 120.4</td> <td>0 155.25</td>	4409.40 8090.00 120.4	0 155.25
III UI SUF ASURT TOTALS:       14040.40       25040         III UI SUN VSEJ TOTALS:       15040.40       25040         III UI SUN VSEJ TOTALS:       15040.40       15040         HEVENUE TOTALS       15040.40       15040         HUI SUN VSEJ TOTALS:       0.40       -3950         HUI SUN ASU TOTALS:       0.40       -3950         HUI SUN ASU TOTALS:       0.40       -2893         HUI SUN ASU TOTALS:       0.40       -2940         DOST OF GOUDS SILD TOTALS:       0.40       -2840         HUI SUN ASU TOTALS:       0.40       -540	0000.00 16000.0D 125.0	0 104.16
HI VI SUN VSEJ TOTALS:       10000.00       27000         HI VI SUN VSEJ TOTALS:       15000.00       15000.00         HEVENUE TOTALS       53333.00       110632         FU OF COURS SULD       633333.00       110632         HI VI SUN ASUN TOTALS:       0.00       -3950         HI VI SUN ASUN TOTALS:       0.00       -3950         HI VI SUN ASUN TOTALS:       0.00       -7960         HI VI SUN ASUN TOTALS:       0.00       -2633         HI VI SUN ASUN TOTALS:       0.00       -2960         HI VI SUN VSEJ TOTALS:       0.00       -2960         HI VI SUN VSEJ TOTALS:       -7960.00       -3960         DOST OF GOUDS SULD TOTALS:       0.00       -2600         HI VI SUN ASUN TOTALS:       0.00       -560         HI VI SUN ASUN TOTALS:       0.00       -560         HI VI SUN ASUN TOTALS:       0.00       -560         HI VI SUN VSUN TOTALS:       0.00	2666.40 5332.60 125.0	0 20.40
HITISUN VSEJ TOTALS:       15000.00       15000         HEVERUE VOTALG       53333.00       110632         TO OF COURS SULD       0.00       -3950         HITISUN ASUR TOTALS:       0.00       -7900         HUTSUN ASUR TOTALS:       0.00       -2633         HUTSUN ASUR TOTALS:       0.00       -2633         HUTSUN ASUR TOTALS:       0.00       -2633         HUTSUN ASUR TOTALS:       0.00       -7900         HUTSUN VSEJ TOTALS:       0.00       -7900         HUTSUN VSEJ TOTALS:       0.00       -7900         HUTSUN VSEJ TOTALS:       0.00       -7900         DOST OF GOUDS SILD TOTALS:       0.00       -2600         TO ULSUR TOTALS:       0.00       -2600         HUTSUN ASUN TOTALS:       0.00       -560         HUTSUN ASUN TOTALS	1600.00 127.0	0 55.14
HEWERNE TOTALS         53339.00         110632           TOT COURS SULD	\$000.00 16000.00 125.0	0 40.76
FT OF COURS SULD       0.00       -3950         HIVISUN ASUR TOTALS:       0.00       -7960         HIVISUN ASUR TOTALS:       0.00       -2639         HIVISUN ASUR TOTALS:       0.00       -2639         HIVISUN ASUR TOTALS:       0.00       -2640         HIVISUN ASUR TOTALS:       0.00       -7960         HIVISUN ASUR TOTALS:       0.00       -7960         HIVISUN VSEJ TOTALS:       0.00       -7960         DOST OF GODS SULD TOTALS:       -7960.00       -30103         COST OF GODS SULD TOTALS:       0.00       -2600         HIVISUN ASUR TOTALS:       0.00       -2600         HIVISUN ASUN TOTALS:       0.00       -560         HIVISUN ASUN TOTALS:       0.00       -560         HIVISUN YASUR TOTALS:       0.00       -560         HIVISUN YASUR TOTALS:       0.00       -560         HUISUN YASUR TOTALS:       0.00       -560         HUISUN YASUR TOTALS:       0.00       -560	0000.00 8000.0D 107.5	0 21.63
III VIISUR ASUR TOTALS:       0.00       -3950         III VIISUR ASUR TOTALS:       0.00       -7960         III VIISUR ASUR TOTALS:       0.00       -2633         III VIISUR ASUR TOTALS:       0.00       -7960         III VIISUR ASUR TOTALS:       0.00       -7960         III VIISUR ASUR TOTALS:       0.00       -7960         III VISUR ASUR TOTALS:       0.00       -7960         III VISUR ASUR TOTALS:       -7960.00       -30163         TO BODS SILD TOTALS:       -7960.00       -30163         TO ULASUR TOTALS:       0.00       -2600         III VISUR ASUR TOTALS:       0.00       -2600         III VISUR ASUR TOTALS:       0.00       -2600         III VISUR ASUR TOTALS:       0.00       -600         III VISUR ASUR TOTALS:       0.00       -560         III VISUR VIEL TOTALS:       0.00       -560         III VISUR VIEL TOTALS:       0.00       -600         III VISUR VIEL TOTALS:       0.00       -600         III VISUR VIEL TOTALS:       0.00	39666.40 69332.6D 137.9	a 159.65
III (II SUN ASAD TOTALS:       0.00       -7900         III (II SUN ASAD TOTALS:       0.00       -2633         III (II SUN ASAD TOTALS:       0.00       -7900         III (II SUN ASAD TOTALS:       0.00       -7900         III (II SUN ASAD TOTALS:       0.00       -7900         III (II SUN ASAD TOTALS:       -7900.00       -30163         III (II SUN ASAD TOTALS:       -7900.00       -30163         TO III ABDE       -7900.00       -30163         III (II SUN ASAD TOTALS:       0.00       -2500         III (II SUN ASAD TOTALS:       0.00       -2600         III (II SUN ASAD TOTALS:       0.00       -2600         III (II SUN ASAD TOTALS:       0.00       -2600         III (II SUN ASAD TOTALS:       0.00       -560         III (II SUN ASAD TOTALS:       0.00       -560         III (II SUN ASAD TOTALS:       0.00       -560         III (II SUN ASAN TOTALS:       0.00       -560         III (II SUN ASAN TOTALS:       0.00       -560         III (II SUN ASAN TOTALS:       -000.00       -600         III (II SUN ASAN TOTALS:       -000.00       -600         III (II SUN ASAN TOTALS:       -000.00       -600         III (II SUN		
III 'II SUN ASTY TOTALS:     0.00     -2633       III 'II SUN ASTY TOTALS:     0.00     -7960       III 'II SUN Y SUL TOTALS:     0.00     -7960       III 'II SUN YSUL TOTALS:     0.00     -7960       III 'II SUN YSUL TOTALS:     -7960.00     -30163       COST OF GOODS SULD TOTALS:     0.00     -30163       TOT LABUE     -7960.00     -30163       III 'II SUN ASUN TOTALS:     0.00     -30163       III 'II SUN ASUN TOTALS:     0.00     -500       III 'II SUN ASUN TOTALS:     -000.00     -20160	•.•• D.QD Q.•	
III VII SUP ASUP TOTALS:     0.40     -7940       III VII SUP VSUE TOTALS:     0.40     -7940       III VII SUP VSUE TOTALS:     -7940.40     -7940       III VII SUP VSUE TOTALS:     -7940.40     -7940       COST UP GOUDS SULD TOTALS:     -7940.40     -7940       III VII SUP ASUR TOTALS:     0.40     -260       III VII SUP ASUR TOTALS:     0.40     -640       III VII SUP ASUR TOTALS:     -640.40     -640       III VII SUP ASUR TOTALS:     -640.40     -640	0.00 D.0D 0.0	
III VISUR VSEL TOTALS:     0.00     -7900       III VISUR VSEJ TOTALS:     -7900.00     -7900       DOST DF GODDS SILD TOTALS:     -7900.00     -20103       TOT LABOR     -1000     -2000       III VISUR ASUR TOTALS:     0.00     -2000       III VISUR ASUR TOTALS:     0.00     -500       III VISUR VSE, TOTALS:     -500.00     -20160	0.00 D.0D 0.0	
III UI SUN USEJ TOTALS:     -7940.00     -7940.00       DOST DF GODDS SULD TUTALS     -7940.00     -29103       ST OF LABOR     -7940.00     -29103       III UI SUN ASUN TOTALS:     0.40     -280       III UI SUN ASUN TOTALS:     0.40     -166       III UI SUN ASUN TOTALS:     0.40     -540       III UI SUN Y SEJ TOTALS:     -540     -640       COST DF LABOR TUTALS     -640.00     -2416	A.AA D.OD O.A	
COST OF GOODS SUID TUTALS         -7940.00         -39103           ST OF LAGOE         -7940.00         -39103           ST OF LAGOE         -7940.00         -39103           ST OF LAGOE         0.00         -250           INVISUE ASULTOTALS:         0.00         -690           INVISUE ASULTOTALS:         0.00         -166           INVISUE ASULTOTALS:         0.00         -500           INVISUE VSILTOTALS:         0.00         -500           INVISUE VSILTOTALS:         0.00         -500           INVISUE VSILTOTALS:         0.00         -600           DOST OF LAGOE TUTALS         -600.00         -2416		
ST OF LABOR         HIVISUR ASUL TUTALS:       0.00       -250         HIVISUR ASUL TUTALS:       0.00       -660         HIVISUR ASUL TUTALS:       0.00       -560         HIVISUR VSEJ TUTALS:       0.00       -560         HUISUR VSEJ TUTALS:       0.00       -560         DUTISUR VSEJ TUTALS:       -660       -560         DOST OF LABOR TUTALS       -660.00       -2416	•.•• D.0D 0.•	0 D.00
III VIISUN ASCH TOTALS:         0.00         -250           III VIISUN ASCH TOTALS:         0.00         -690           III VIISUN ASCH TOTALS:         0.00         -690           III VIISUN ASCH TOTALS:         0.00         -590           III VIISUN ASCH TOTALS:         0.00         -590           III VIISUN VIELS:         0.00         -590           III VIISUN VIELS:         0.00         -590           III VIISUN VIELS:         -590.00         -690           COST UF LABOR TUTALS         -690.00         -2416	•.D• D.QD Q.•	0 D.QD
III VIISUN ASAD TOTALS:     0.00     -690       III VIISUN ASUN TOTALS:     0.00     -166       III VIISUN ASUN TOTALS:     0.00     -500       III VIISUN ASUN TOTALS:     0.00     -500       III VIISUN ASUN TOTALS:     0.00     -500       III VIISUN TASES TOTALS:     -600.00     -600       COST OF LABOR TUTALS     -600.00     -2016		
III UI SUN ASTW TOTALS:     0.00     -165       III UI SUN ASTW TOTALS:     0.00     -560       III UI SUN WERL TOTALS:     0.00     -560       III UI SUN WERL TOTALS:     -000.00     -560       III UI SUN WERL TOTALS:     -000.00     -2016       COST OF LABOR TOTALS     -560.00     -2016	2509.99 0.90.00 0.9	
III VII SON ÅSUN TOTALS:         0.00         -500           III VII SON WERL TOTALS:         0.00         -500           III VII SON WERL TOTALS:         -000.00         -600           COST OF LABOR TOTALS         -600.00         -2016	5000.00 1000.00 0.0	
III ULISON WERE TOTALES:     0.40     -540       III ULISON WEEJ TOTALES:     -000.00     -600       COST OF LABOR TOTALS     -600.00     -2416	1666.50 3399.0D 0.0	
III VI SUR VS&J TOTALS: -000.00 -500 COST DF LABOR TUTALS -500.00 -2016	5000.00 10000.0D 0.0	
COST OF LINGUE TUTELS - 640.00 -2416		
	5000.00 -10.0	-1.15
	24166.50 43333.00 -2.0	6 -5.07
III (II SOF BSEE TOTALS: -525.00 -1464	A.AA D.OD O.A	
III VISUR MSMD TUTMLS: -1000.00 -2808	•.•• D.QD Q.•	
III VISON ASTA TOTALS: -349.97 -935	0.00 Q.0	
III VI SON ASUN TOTALS: -1050.00 -2808	0.00 Q.0	
III ULISOF WSDL TOTALS: -1050.00 -2868 III VIISOF WSEJ TOTALS: -1768.00 -1768	6.66 D.0D 0.6 9.99 D.0D 0.9	

The Corporate Profit and Loss report includes revenue and expense totals for the Current Month, YTD, Budget, YTD Budget, Variance, and YTD Variance for every division reporting to the Business Unit selected or the entire corporation.

## **Corporate YTD Expense and Revenue Report**

OHESIVE 1/08/2003	TECHNOLOGIES IN					Page	: 1
	TECHNOLOGIES IN						
MARANDA							
D EXPENSE	AND REVENUE REPORT 10/03	FOR Entire Corporati	lon				
ясст в	SCRIPTION	Luckant Month	YTT	BUILDE	AND BUDGET		מו אי עבור
A REAL PROPERTY AND A REAL							
ILVISION DEC	ж						
20100000	BOSIDESS INCOME	\$Q0Q.0Q	12600.00	4000.00	8000.00	1Z5.00	155.
20180000	BREICHT INCOME	0.00	0.00	0.00	0.00	a.oa	D.
20880000	SALE DISCOURT	0.00	0.00	0.00	0.00	a.oa	D.
20900000	<b>DITUD</b> S	0.00	0.00	0.00	0.00	0.00	σ.
III VISUT ASC		5040.40	12590.00	4.000.00	8040.00	125.00	155.
III VI SIDN AS							
30100000	HUSINESS INCOME	10000.00	2500D.0D	00D0.00	LEDOD.OD	125.00	156.
20150D00	PREIGHT INCOME	0.00	D.OD	0.00	D.OD	0.00	D.
20620000	SALE DISCOURT	0.00	D.QD	0.00	D.OD	0.00	D.
20900000	REFUEDS	0.00	D.QD	0.00	D.QD	0.00	D.
ILUISON ASKO		10000.00	25000.00	0000.00	16000.00	125.00	104.
III VI SIDN ASI							
30100D00	HUSINESS INCOME	3333.00	6332.5D	2666.40	5332.6D	125.00	156.
30150000	FREIGHT ISCORE	0.00	D.0D	0.00	D.0D	0.00	D.
30650000	SALE DISCOURT	0.00	D.OD	0.00	D.0D	0.00	D.
30900D00 III VI SUN ASIV	REFUEDS	0.00 0.8886	D.OD 6332.50	0.00 2464.40	D.OD 5992.60	0.00 125.00	D. 20.
		3333.00	6392.30	2000.10	3392.00	1123.00	20.
30100000	BUSINBSS INCOM	10000.00	25000.00	8000.00	16000.00	125.00	156.
30150000	BUILDESS INCLUIF	a.oa	0.00	0.00	0.00	0.00	D.
30850000	SALE DISCOUT	a.oa	0.00	0.00	0.00	0.00	D.
30300000		0.00	0.00	0.00	0.00	0.00	D.
		10000.00	25060.00	1000.00	116 000 . 0 0	123.00	55.
20100000	BOSINESS INCOMI	10000.00	Z5000.00	8000.00	16000.00	125.00	155.
20180000	BREICHT INCOME	0.00	0.00	0.00	0.00	0.00	D.
20850000	SALE DISCOURT	0.00	0.00	0.00	0.00	0.00	D.
20900000	DITUDS	0.00	0.00	0.00	0.00	0.00	۵.
ILVESIN VSIL	TOPLS:	10000.00	25000.00	<b>TODU.UU</b>	16040.00	125.00	40.
III VI SIDN WIS	<i>ت</i>						
30100000	HUSINESS INCOME	15000.00	LSDOD.GD	0000.00	GDOD.GD	107.50	197.
	PREIGHT INCOME	a.oa	D.QD	0.00	D.OD	0.00	D.
20150D00							

The YTD Expense and Revenue report includes all revenue and expense charts of accounts and totals for the Current Month, YTD, Budget, YTD Budget, Variance, and YTD Variance for every division reporting to the Business Unit selected or the entire corporation.

## **Corporate Balance Sheet Report**

Entire Corp		BICK NO:1	
ASSEIS			-
CURRENT ASSETS			
DIVISION ASCH			
10100000	CASH ON HAND	2496.00	
10200000	BANK CHECKING ACCOUNT	9367.50	
10300000	BANK SAVINGS ACCOUNT	0.00	
11100000	ACCNT/RECVE. CUSTOMERS	8500.00	
11200000	ACCNI/RECVSOTHERS	0.00	
11900000	A/RBAD DEBTS RESERV	0.00	
12 100000	STOCK INVENTORY	750.00	
DIVISION ASCH	TOTALS	21133.50	
DIVISION ASHO			
10100000	CASH ON HAND	4992.00	
10200000	BANK CHECKING ACCOUNT	18775.00	
10300000	BANK SAVINGS ACCOUNT	0.00	
11100000	ACCNT/RECVB.CUSTOMERS	17000.00	
11200000	ACCNT/RECVSOTHERS	0.00	
11900000	A/RBAD DEBTS RESERV	0.00	
12100000	STOCK INVENTORY	1500.00	
DIVISION ASHO	TOTALS	42267.00	
DIVISION ASTN			
10100000	CASH ON HAND	1663.83	
10200000	BANK CHECKING ACCOUNT	6257.71	
10200000	BANK CHECKING ACCOUNT BANK SAVINGS ACCOUNT	0.00	
11100000	ACCNI/RECVB.CUSIONERS	5666.10	
11200000	ACCNT/RECVSOTHERS	0.00	
11200000	A/RBAD DEBIS RESERV	0.00	
12 100000	STOCK INVENTORY	499.95	
DIVISION ASIN		14087.59	
		14007.00	
DIVISION ASVN			
10100000	CASH ON HAND	4992.00	
10200000	BARK CHICKING ACCOUNT	18775.00	

The Corporate Balance Sheet report includes all the asset, liability, and equity accounts for all the divisions belonging to the Business Unit selected or for the entire corporation.

Entire Co	rpora		
10/08/2003 TRIAL BALANCE ACCT	10/03 Description	ТУРЕ	CURRENT DEBIT
DIVISION :ASC	н		
10100000	CASH ON HAND	AC	2496.00
10200000	BANK CHECKING ACCOUNT	AC	9387.50
10300000	BANK SAVINGS ACCOUNT	AC	0.00
11100000	ACCNT/RECVB.CUSTOMERS	AC	8500.00
11200000	ACCNT/RECVSOTHERS	AC	0.00
11900000	A/RBAD DEBTS RESERV	AC	0.00
12100000	STOCK INVENTORY	AC	750.00
13100000	SHOP EQUIPMENT	AF	0.00
13200000	FURNITURE & FIXTURES.	AF	7500.00
13300000	TRANSPORTATION EQUIP.	AF	0.00
13400000	LEASHOLD EQUIPMENT	AF	0.00
13500000	LAND	AF	0.00
13600000	BUILDING	AF	0.00
14100000	DEPRECIATION ACCRUED	AD	0.00
14200000	AMORTIZATION ACCRUED	AD	0.00
15100000	PREPAID EXPENSES	AL	500.00
20100000	ACCNTS/PAYAB.VENDORS	LC	0.00
20200000	ACCNTS/PAYABLE OTHERS	LC	0.00
21100000	SALES TAX	LC	0.00

The Corporate Trial Balance report includes the trial balances for the current month and YTD for every division belonging to the Business Unit selected or all divisions for the entire corporation.

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TRANS DA	TE CHECK	DESCRIPTION	COMPANY	1944	<b>TEID/1177</b>	REC	DESIT ANT	CREDIT MAT
IVISION AS	SCH)							
COURT 1010	eeed (ASH DET)							
LETTER BAL	ANCE FOR THE						D. 00	
	LOCE FOR THE BO						0. D0	
0001 1040		STARTING BUSINESS					2500.00	0.00
0012 10/0		FRY'S					0.D0	<b>4</b> . 00
	CE FOR THE EDDT ICE FOR THE	π					2486.00 2486.00	0. DQ 0. DQ
	UUU BARK CHO							
	ANCE FOR TTO						0.00	
ARTING BAL 0001 10/0	ANCE FOR THE BOO Sense	STARTING BUSINESS					0. 00 5000. 00	D. 00
0001 10/0 0007 10/0		75 PRODUCTS					6000.00	0.00 0.00
0008 10/0		7 GUTE2					0.00	326.00
0009 10/0		R TERRES					0.00	50D.00
0100, 10/0		3 F EXAMINER					0.00	25.00
0010 10/0 10/0		B BERGEL					0.00	350.00
0013 10\0		VIE INTEREST					12.60	D. 00
	селов тне воют						9387.50	0.00
	CI TOR TTO						9387.50	0. DQ
	1000 1000T/RD	CTR . CUSTOMERS						
	LOCE 708 TTD						0.00	
	LOLE FOR THE BO	STARTING BUSINESS					0.00	P. 40
0002 10/0 0005 10/0							2000.00 2500.00	D. 00
0006 10/0		TE PRODUCTS					7500.D0	D.00 6000.00
00007 10/0 07007 10/0	8/03 CB 700. 7XC 60077						0.00	
		<b>n</b>					8500.00 8500.00	0.00 0.00

The Corporate General Ledger report contains the starting balance for the year, the starting balance for the month, all transactions for the period, the ending balance for the month, and the ending balance for the year for every division belonging to the Business Unit selected or all divisions for the entire corporation.

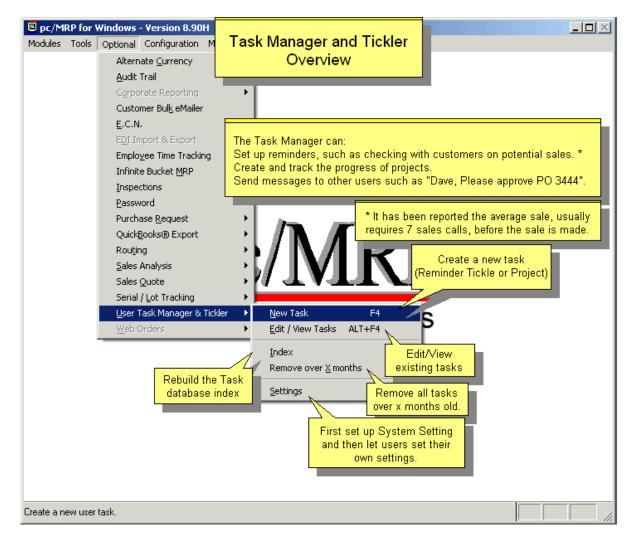
## **Corporate Transaction Report**

OKESIVE TECHI 1/01/2003 2009al leder all	OLOGIES IN TRANSACTIONERTIRE CORPORATION 10	1/03		844 C C 1999 C 1999	0:1 T 81.7.7 8X
RAHS# DATE CHE	CR# DESCRIPTION COMPANY	DELATED DOCH ACCT		DEBIT ANT	CREDIT ANT
TATELON 18CH)					
10001 10/08/09	STARTING BOSIDE	TDTODGOD	CASE ON NAMD	2500.00	0.00
		10200000	BANK CHECKING ACCOUNT	5000.00	0.00
		121 00000	STOCE INVESTORY	3000.00	0.00
		251 00000	STARTING CAPITAL	0.00	10500.00
0002 10/08/03	STARTING BOSIDE	13200000	FUREITURE 6 FIXTURES.	7500.00	0.00
		11100000	ACCHT/BECVB.COSTIMERS	2000.00	0.00
		15100000	FREPAID EXPENSES	500.00	0.00
		25100000	STARTING CAPITAL	0.00	10000.00
0009 10/08/09	STARTING BOSIDE	25100000	STARTING CAPITAL	1 2500. 00	0.00
		241 00000	NOTES JAVABLE	0.00	12500.00
0004 10/08/03	FTOLK INV ADJOS	40100000	STARTING INVENTORY	3000, 00	0.00
		12100000	STOLE INVENIONY	0.00	3000.00
0005 10/08/09	RELET	411.00000	POR CHASE S	1500.00	0.00
		41.400000	FREIGHT	200.00	0.00
		20100000	ACCHTS/PAYAB. VEHDORS	0.00	1708.08
0006 10/08/03	FE PRODUCTS	11100000	ACCHT/RECVE. CUSTORERS	7500.00	0.00
		3010000	HUSINESS INCOME	0.00	7500.00
0007 10/08/03		T0200000	BATE CHECKIDS ACCOUNT	6000.00	0.00
		11100000	ACCHT/BECYB. COSTIMERS	0.00	6000.00
0008 10/08/09	P G-0222	50100000	74.672	250.00	0.00
		221 00000	RAYROLL TAX. J.B.T.	0.00	25.00
		10200000	BANK CERCEING ACCOUNT	0.00	225.00
0009 10/08/03	RIDERS	61500000	REAL	500. 00	0_00
		1020000	BANK CRECEDIG ACCOUNT	0.00	500-00
0010 10/08/09	5 F EXAMINER	6010000	ADVERTISING	25.00	0.00
		10200000	BANK CHECKING ACCOUNT	0.00	25.00
0011 10/08/03	B BEFERL	61000000	INSURANCE. GENERAL.	350.00	0.00
		10200000	BANK CHECKING ACCOUNT	0.00	350.00
0012 10/08/09	ERT 1 3	61400000	OFFICE SUPPLIES	4.00	0.00
		10100000	CASH OF HAND	0.00	4.00
0013 10/08/03	W7B INIERESI	T0500000	BANK CHECKING ACCOUNT	12.60	0.00

The Corporate Transaction report contains the every transaction entered during the period for every division belonging to the Business Unit selected or all divisions for the entire corporation.

## 16.18 Optional User Task Manager & Tickler Module

#### 16.18.1 Overview and Setup



See our slideshows here: <u>http://www.pcmrp.com/mrp101/tickleroverview.htm</u> and here: <u>http://www.pcmrp.com/mrp101/crmoverview.htm</u>

The User Task Manager & Tickler Module allows companies to

- Quickly set reminders.
- Manage and assign tasks of a project.
- Multiple task reports with various sort and group options.

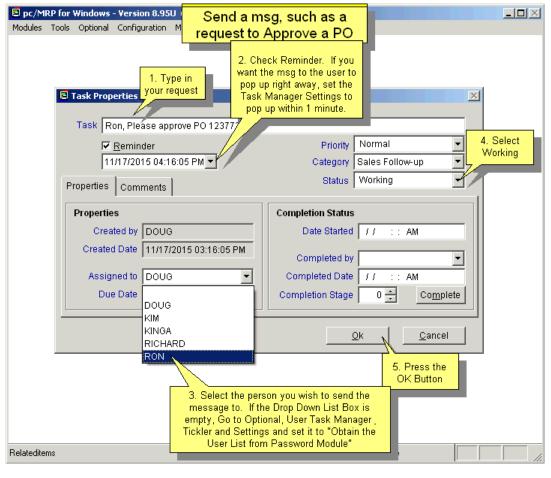
The reports include:

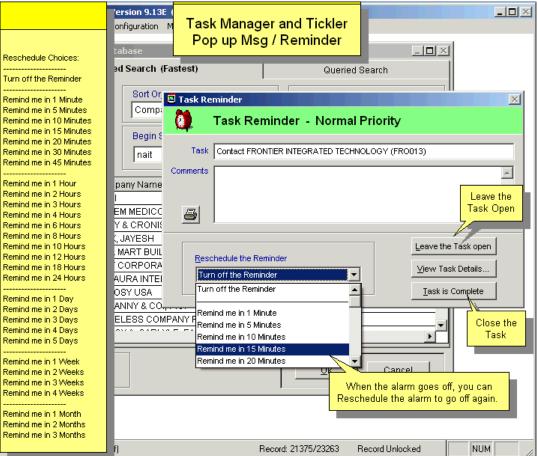
- All displayed Tasks in List format.
- Just the selected Task in item format.
- All the displayed Tasks in item format.

To activate this module: Call Software Arts (408-226-7321) to obtain your activation code number. Select Configuration, Module Activation, and then User Task Manager & Tickler Module from the menu. Press the "Activate" button and enter your activation code number.

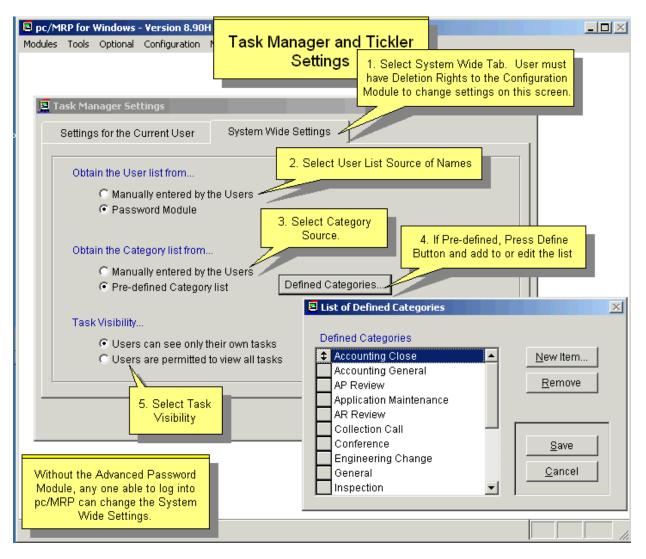
#### Example

Companies that own the Advanced Password Module can send requests for PO Approval.





#### System Wide Settings

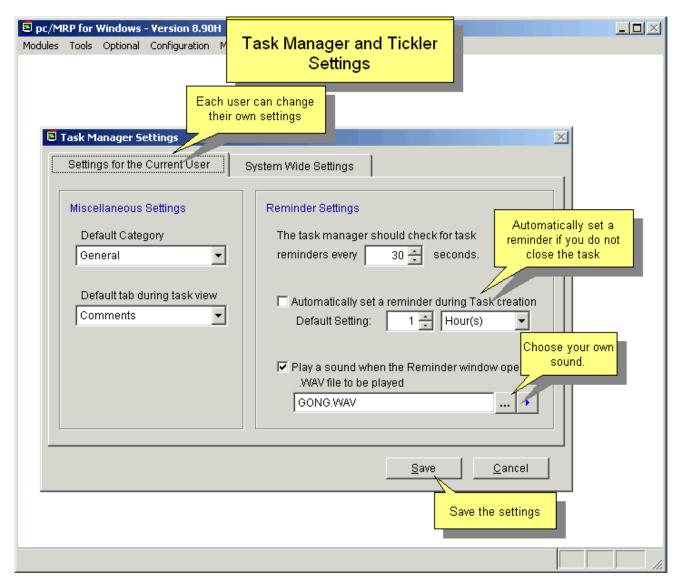


**Obtain the User list from...** Choose 'Manually entered by the Users' if you do not have the Advanced Password Module or wish the user to enter a name known not to be in the password module.

**Obtain the Category List from...** Choose 'Manually entered by the Users' if you do not want to control by a predefined category list. Pressing the 'Defined Categories' button will allow editing of the Defined Categories as seen in the screen above.

**Task Visibility** This is self explanatory; usually you will only want the user to see his tasks. He will still be able to see tasks he has assigned to other people.

#### Settings for the Current User



Default Category and Default Tab for Comments or Properties can be changed by each user logon. Categories may be added if allowed by the system administrator. If additions are allowed by the administrator, only a 'General' category is supplied to start with. The user may enter one here or on the task screen.

### 16.18.2 Enter a New Task or Tickler

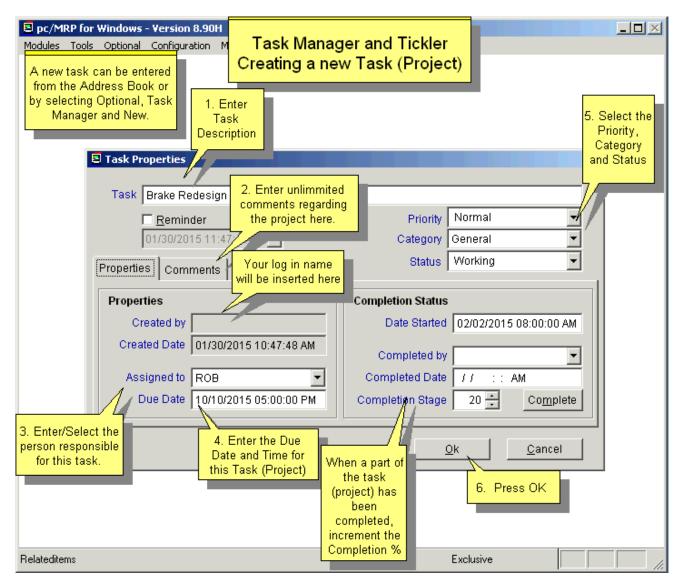
## Step 1.

When selecting 'New Task' from the menu, you will be presented with the following screen.

Dec/MRP for Wind Modules Tools Opti		er)
Addr Id BBC001 Compan	Company N 2. Set the Date BBC MANUF and Time the msg Task Prope is to pop up Task Cont at BBC MANUFACTURING COMPANY (BBC001)	Balance and Status
Addres		ority Normal 🔹 gory Sales Follow-up 💌
Cit State / Zi Count Countr Telephon Faxn Comme	Sun Mon Tue Wed Thu         Fri         Sat           Call Jim         28         29         30         31         1         2         3           4         5         6         7         8         9         10           11         12         13         14         15         16         17         4. En	atus Working  eived the Quote ter the purpose of the task
	1. From the Address, click on the Ticker Button. You can also go to Optional, User Task Manager and Ticker and select New Task	Qk <u>Cancel</u> 5. Press OK <u>Qk Cancel</u>
Relateditems	Record: None E	xclusive

Default Priority, Category, and Status are filled in for the user. Abbreviated Task description, Reminder, and Comments are all that is needed for the basic Tickler. Comments can be unlimited.

#### Step 2, Properties tab

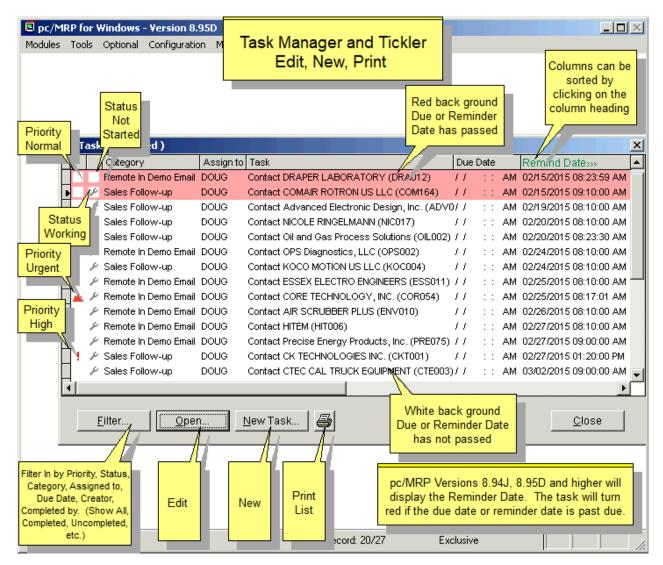


More detailed information is available for entry of the Properties tab. 'Created by' and 'Created Date' are not modifiable. 'Assigned to' can be selected from the drop-down list or, if the Administrator allowed, you can enter a name yourself just like the Category field.

Note: Due Date and Date Started (and Completed Date) are not validated against one another.

#### 16.18.3 Edit/Complete/Print

Selecting 'Edit/View Tasks' from the User Task Manager & Tickler menu will bring up the following screen.



Selecting 'Open' button will open the details for the selected task, in this case, 'Staff meeting'.

Pressing the Filter button on the Tasks window presents this screen.

Changing any of the filter criteria changes the filter label to red. There are numerous filter criteria the user can set up. The default settings are shown below.

pc/MRP for Windows - Version	ersion 8.10A	(User: R)			
Modules Tools Optional Config	guration Manual	Developer Help			
🚊 Tasks (Filtered)					×
Category	Assign to	Task		Due Date >>>	A
General	ROB	Staff meeting		10/23/2005 04:00:00	PM
↓ General	R	Meet w/ Bob & Joyce @ new	brochure	10/25/2005 05:00:00	● PM
<u> </u>	Task Filter	Criteria			
	Priority	Show All	Due Date	Show All	•
Pressing the 'Clear Filters' button will	Status	Show All Uncompleted 💌	Creator	Show All	-
reset all options to	Category	Show All	Completed by	Show All	•
'Show All'	Assigned to	Show All			
	Clear <u>F</u> ilte	rs		<u>Ok</u> <u>C</u> ance	1
				Pressing the 'Ok' but return you to a newly	filtered
Tasktable		Record: 1/2	Excl	'Tasks' screen	· /

If you do not use the Properties tab, you may just adjust the 'Status' box in the upper window area to 'Complete'.

pc/MRP for Windows - Version 8.10A	(User: R)		
Modules Tools Optional Configuration Manual	Developer Help		
Task Properties			
Task Properties         Task Meet w/ Bob & Joyce @ new brock         Reminder         10/23/2005 12:17:54 PM▼         Properties         Comments         Properties         Created by R         Created Date         10/23/2005 11:17:54 AM         Assigned to R         Due Date         10/25/2005 05:00:00 PM	Completed by Completed Date	General Complete s 1 10/23/2005 11:30:00 AM 7 R 1 10/23/2005 11:25:18 AM	essing the Complete tton automatically es in the Completed as the user and the rrent date & time. herwise, just modify e data as you wish.
Completion Stage 0-100% or 1-10, et	can be used as a c. Your discretion.	<u>O</u> k <u>C</u> ancel	
This can also be the user's default so most fields are self explanatory.	creen.		
Relateditems	Record: No	ne Exclusive	NUM

For the Project tasks, the 'Properties' tab offers more options to complete the task.

If all you need to do is mark the task complete, just press the 'Complete' button on the Properties tab and adjust the Completion Stage if required. 'Status', Completed by, Date and Time are automatically filled in for you. You may also need to adjust the 'Completed by' box if you did not do the work.

Pressing the **Print** button on the Tasks detail window brings up the following screen.

pc/MRP for Windows			<b>●</b> ⊗ ⊤ ⊏	
Modules Tools Optional (	Configuration Manua	l Developer Help		
🚊 Tasks (Filtered)				×
Category	Assign to	Task	Due Date >>	
▶ General ✓ General	ROB R	Staff meeting Meet w/ Bob & Joyce @ new brochure	10/23/2005 10/25/2005	
	k(s) It Range isplayed Tasks in L	ist format 💌 🔽 Include Comments	Save Setting	gs
Ei Display	utput to	▼     Sort By       1     Status       2     Assigned User	<u>O</u> k <u>C</u> ancel	
Form Ty	pe	3 Due Date 💌		
ເ⊂ sta	andard C Custom	Group By Status		
	This is the sta	ndard report window modified for the Us Manager and Tickler Module.	er Task	
Tasktable		Record: 1/2 E	Exclusive	

Choose the Output Range, where to send the report, how to sort the report and whether or not to include Comments.

The Save Settings checkbox will save your report settings to your login file to allow the same criteria to be used as default for the next report run.

#### **Remove Over X Months.**

Selecting menu item 'Remove Over X Months' is a two step process.

It is imperative that the date be today's date and that you have a back-up of the production pcmrpw directory.

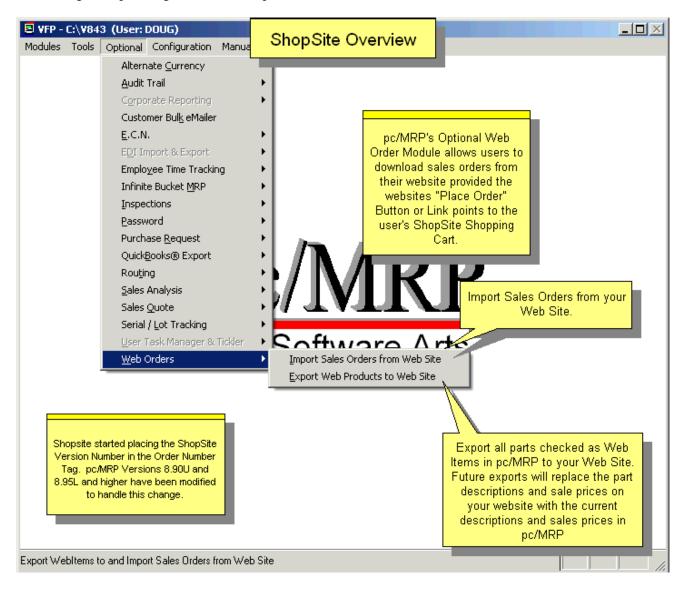
If you want to keep the last year's worth of Task & Tickler records, you would enter 12 as the age in months.

# 16.19 Optional Integrated Web Sales Site Interface

An online slideshow is located here: http://www.pcmrp.com/mrp101/shopsitedownloadgotourl.htm

#### 16.19.1 Overview

This optional module allows users to manage orders created on a web sales site (currently ShopSite) by downloading and uploading the orders into pc/MRP's Sales Order module.

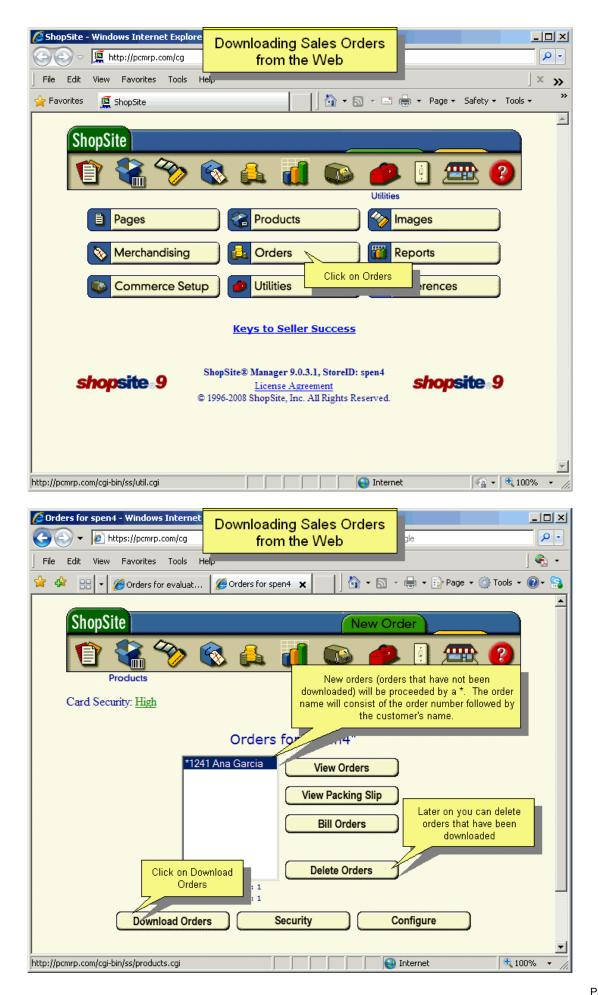


When you first integrate the two programs, use the link and password ShopSite, Inc. has provided you in an email.

s.xls	Image: Second state sta	
) a.exe	File       Edit       View       Favorites       To download the orders from your shopping cart, go to the URL ShopSite provided in an email       Safety + Tools +	> >> 
ᅖ	Connect to pcmrp.com	at
'on /	The server pcmrp.com at ShopSiteUser requires a username and password.         Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).       Use an Accelerator	uν
	User name: Shopsiteusername Password: Enter the User Name and Password Remember my password ShopSite provided in an email.	
	OK Cancel Press the OK Button Waiting for http://pcmrp	

Create your online store following ShopSite's instructions. Your customers (and yourself) will be able to reach your secure web store through your web site.

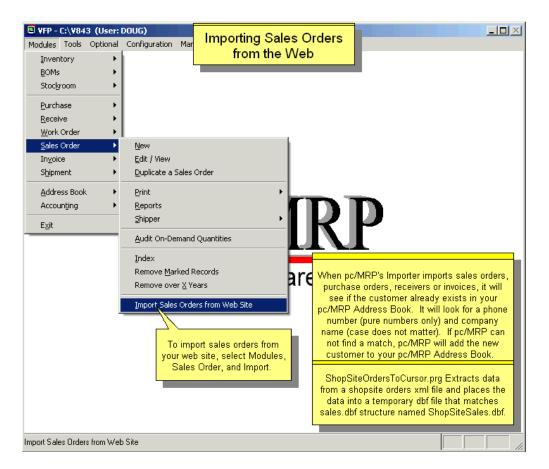
When your first online orders arrived, you will download the orders into an .XML file, and then use pc/MRP to import them into your Sales database table.



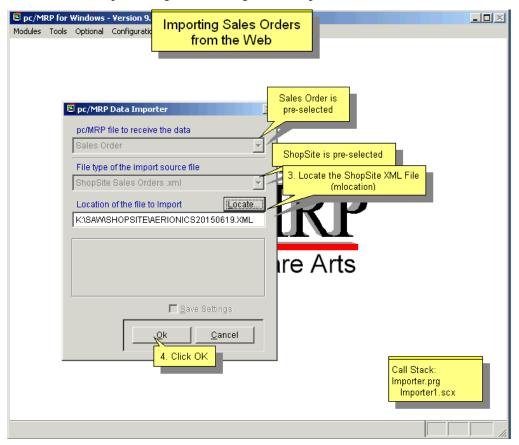
Corders Download - Windows Int	Downloading Sales Orders
File Edit View Favorites Too	ils Help
😭 🍄 🔠 🕶 🏉 Orders for eva	luat 🥻 Orders Download 🗙 🛛 🖓 👻 🗟 👻 🖶 🐨 🔂 🕫 🚱 Page 🕶 🎯 Tools 👻 🔞 😪
Download fields (tab-delimited only)	Selected fields only     Select
(do domino only)	C Use field map <new> Change</new>
	C All orders
	All orders after 1241     order number or <u>date</u>
Download orders	C In date range
	C In number range
Download options	Use billing address for shipping address for shippi
File name	SSorders20090619
File type (extension)	xml Other:
	(When finish Select XML lick Cancel to return.)
	Proceed Cancel
Click here	for informa Click on Proceed Stone Edge Order Manager.

Save the file into a folder dedicated to your ShopSite XML files.

Corders Download - Windows Inte	Downloading Sales Orders	-
File Edit View Favorites Tool	s Hep	,
File Download Do you want to open or save	e this file?	•
Name: SSorders20 Type: XML Docum From: pcmrp.com	ent	
	Click on Save net can be useful, si ou do not trust the source, do not open or	
Download options	$\square$ Use billing address for shipping address if not specified	
File name	SSorders20090619	
File type (extension)	xml  Other:	
(	(When finished downloading, click Cancel to return.)  Proceed Cancel	
<u></u>	or information on tools such as the Stone Edge Order Manager.	-
Bownloading from site: https://pcmrp	.com/cgi-bin/ss/orderhar	/1.



pc/MRP uses the same importer engine as Configuration, Option 40 does.



Adules Tools Optic pc/MRP Setting: Display Settings For All	s & Utilities Option Descri	stion AP voucher information on receiver rep	Setting	
Inventory BOM	39 PrintiDi pc/MRP Data In	solay the file structure for a selected DF	F f1Hility1	×
	Sales Order	Database Structure		Import File
Sale//Vork/Invoice	Field Name	Purpose	Filled By	Field Name
Shipment Address Book Accounting QuickBooks Relatec Company Address Global Settings Report&Label Writer Utilities	SONO CUSTCONT SALETYPE CUSTCORP COMMENT CUSTPHONE BILLTO SHIPTO DATEREQ SHIPVIA	Sales/Work Order Number Customer Contact Type of Sale Customer Address Comments for item Customer Phone Number Bill-To Address Ship-To Address Date Required Ship Via (UPS, FED EX, etc)	SONO CUSTCONT SALETYPE CUSTCORP COMMENT CUSTPHONE BILLTO SHIPTO DATEREQ SHIPVIA CIear All	SHIPPABLE A TAXFREIGHT TAXDISCNT SALESSITE MFGSITE INTRACOMP EDIKEY REQARIDATE WEBORDERNO SELECT
Send to <u>File</u>	If the cust Address E Address B	ower ecords to the data table omer does not exist in the took, it will be added to the bok. The Ondemand Qty of ng ordered will be increased.	Autosync	IK <u>Cancel</u>

To see the results you can run a daily web order sales report. Select the date range, and sort by web order number.

If you want to display a specific web order, select All Records for a specific web order number.

KEORDERNO         1374         000100101         ADDITIONAL HULTI-U         XENO2         5.000           Subtotal:         5.000         5.000         5.000         5.000         5.000	pc/MRP for W dules Tools Print Preview AGENO. 6/06/2013 03 SER: DOUG MLELOG. FRX ALL ENT	Optional Cor <b>- SALELOG</b> 1 3:48:00 PM Sales	nfiguration DOV	y hand will	l₩ 🎒 Les/W	IORK OR	DER REI	@ @
23088 0001       /       000000001       ALTERNATE CURRENCY       MOROOS       1.000         23089 0001       /       000000890       SUPPORT, pc/MRP 1-       NET025       1.000         23088 0002       /       100000053       SALES ANALYSIS MOD       MOROOS       1.000         EBORDERNO       1374         23087 0001       000100101       ADDITIONAL MULTI-U       XEN002       5.000         Sales Orders downloaded from the       Table       Subtotal:       5.000		8	PART NUMBER	DESCRIPT	ACCT :	SALE SMAN	-	-
23089 0001       / / 000000890       SUPPORT, pc/MRP 1-       NET025       1.000         23088 0002       / / 100000053       SALES ANALYSIS MOD       MOROOS       1.000         Subtotal:       3.000         NEBORDERNO       1374         23087 0001       000100101       ADDITIONAL MULTI-U       XEN002       5.000         Subtotal:       5.000         Subtotal:       5.000	#BORDERNO							
23088 0002         /         100000053         SALES ANALYSIS MOD         MOROOS         1.000           Subtotal:         3.000         Subtotal:         3.000           Subtotal:         000100101         ADDITIONAL MULTI-U         XENO02         5.000           Sales Orders downloaded from the         Table 1         9.000         9.000	23088 0001	11	00000001	ALTERNATE CURRENCY	M0 R0 06		1.000	c
Subtotal:         3.000           23087 0001         000100101         ADDITIONAL HULTI-U         XENO02         5.000           Sales Orders downloaded from the         Table 1         5.000         5.000	23089 0001	11	00000890	SUPPORT, pc/MRP 1-	NET025		1.000	(
REBORDERNO         1374           23087 0001         000100101         ADDITIONAL MULTI-U         XEN002         5.000           Sales Orders downloaded from the         Table 1: 5.000         5.000	23088 0002	/ /	100000053	SALES ANALYSIS MOD	MOROO6		1.000	
23087 0001 000100101 ADDITIONAL MULTI-U XENO02 5.000 Sales Orders downloaded from the					_	Subtotal:	3.000	
Sales Orders downloaded from the		1374	000100101	ADDITIONAL MULTI-U	XEN002		5.000	(
m-t-1. 9 000					-	Subtotal:	5.000	
					=			

When invoicing, select Cash if the order was paid with a credit card. Leave the Credit Card field blank, as the credit card has already been charged. You can enter the word ShopSite as PO number, if desired.

Dr/MRP for Windows - Version 8.72 Modules Tools Optional Configuration	Invoicing Sales Orders from the Web	Leave Credit Card Number as "None"
·	Date 06/06/2013 Date 06/13/2013	Document Cur card and deposite the BASE CURRE
Phone #   contain the Shop e-Mail ke	Saction Number in Terms Ma ent Number Field. N HISHAMUDDIN 7, Customer PO# Shi	UG If the customer did not enter a PO Number, you can enter some text such as ShopSite
Item         Part Number           0001         000100101           Quantity         Unit         Sale Price	of the Enter By Field	Model Number
5.000     125.00       Comments     Displayed       BASI       Delete     Logbook	E CURRENCY  Division Location Tax Type Sales Type	If you are using pc/MRP's Accounting Module, the next step would be to enter an S Cash and Carry Sale

Both the Sales Order and the Invoice will contain the Web Order Number.

If you are using pc/MRP's Accounting Module, the next step would be to enter an S Cash and Carry Sale Transaction Debiting your bank account and crediting your sales income account. You can enter "Web Order" or "ShopSite" for the check number. The credit card button and the Approval Code fields will be disabled as the card has been already charged.

#### VFP - C:\V824 Visual FoxPro \_ 🗆 🗵 EDI Overview ..... pc/MRP's Modules Tools Optional Configur Automatically import customer Optional EDI Module is purchase orders, automatically Alternate Curre available on pc/MRP send back acknowledgements and Audit Trail Versions 8.24 and higher. create related sales orders. Customer Bulk el E.C.N. ×. Automatically export Invoices EDI Import & Export Import EDI Files (Customer POs) Export EDI Files (Invoices) Employee Time Tracking Infinite Bucket MRP Index Inspections Password Purchase Request QuickBooks® Export Routing Sales Analysis Sales Quote Re-Index and Check Serial / Lot Trac EDI Database Files. ftware Arts EdilntHdr.dbf EdiGrpHdr.dbf Export to Macol EdiTranHdr.dbf EdiCusPoHd.dbf EdiCusPolt.dbf EdiPoAckHd.dbf EdiPoAcklt.dbf EdilnvHd.dbf Edilnvlt.dbf EdiSetting.dbf EdiRules.dbf Optional Module - EDI Import/Export NUM.

# **16.20 Optional EDI Import-Export**

### Overview

The Optional EDI Import-Export module allows electronic data exchange between you and your customers and vendors.

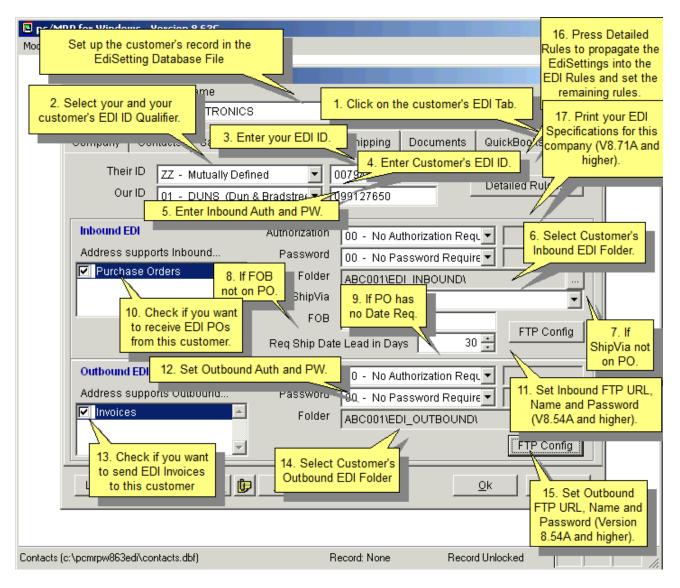
The EDI Module allows users to import Customer EDI Purchase Orders. pc/MRP will automatically create pc/MRP Sales Orders and if requested send an EDI Acknowledgement. Once the Invoice(s) have been created, pc/MRP will allow users to automatically create EDI Invoices. However, it is up to the user to receive and send the EDI Files through email or FTP. The EDI module currently conforms to EDI spec 4010.

The on-line slideshow can be viewed here:

http://www.pcmrp.com/mrp101/edioverview.htm

#### **EDI Setup Screen**

pc/MRP's new optional EDI Module allows users to created unique EDI Rules for each customer as shown in the Modules, Address Book, EDI tab screen shot below. Please see the detailed slideshow for instructions.



# 17.2 pc/MRP Trouble Shooting Tricks

#### **17.2.1 System Information**

## CTRL F12

Pressing CTRL F12 will display

- the forms methods and the settings for each of its properties
- the call stack
- the current status of the program's tables
- CDXs
- index tags in use
- the current contents of all of the memory variables

#### CTRL F10

Pressing CTRL F10 will toggle between Maximize and Restore Down.

#### **System Information**

System information, DLL's, operating system, memory, etc. can be viewed by selecting configuration, About pc/MRP, and System Information.

#### **Start Up Programs and Processes**

Click on the Start button, select Run, type in msconfig.exe. Select Start-up then look for programs that can cause start-up and or run problems. Such as: scheduling agent, printer monitors, virus checkers, etc.

#### **Device Properties**

Right click on my computer, select properties, click on device manager, select your device, click on properties, and then select the properties tab.

#### Taking Screen Shots within pc/MRP

You can click Ctrl-F8 if you want to print the screenshot or save it as a BMP file.

Alt-PrintScrn will place the screenshot on your clipboard, so you can Paste (Ctrl-V) it into an MS Word file.

#### Finding your pc/MRP home folder

A simple way to open up Explorer in the pc/MRP home directory would be to select "Configuration," "About pc/MRP," and press "Ctrl-E." This is the best way to find where pc/MRP resides on your computer.

#### Pressing F1 from the About pc/MRP screen

Displays information about the location of your pcmrp directory, the location of your Temp directory, the status of your Optional Modules, and the names of key files (.dbf, .ocx, .efx, .ef, .dll, .frx, .fxp) located in your pcmrp directory. Clicking the Send to File button will create a MS Notepad file that may be printed or emailed to Software Arts, Inc.

#### SFS() Server File Status

Entering SFS() in pc/MRP's command line displays all the open files and their status on the server.

#### Verifying 'READ ONLY' files attributes (a tri-mode flag)

What the grayed-out and checked Read-only checkbox is telling you is that subfolders and files of the folder may have the read-only attribute and not the folder itself.

If you go through the motions of removing the read-only attribute not only from a parent folder but also select the option to remove the attribute from all subfolders and files, then the read-only tri-mode flag should no longer be set.

If it is still set, the bottom line with the read-only attribute when viewed as the properties of a folder is that seeing the tri-mode flag set for the read-only attribute does not mean that the folder (or any subfolders or files) have the read-only attribute. Instead, it may imply that the folder is deemed a "special folder." For example, folders that support customized views are special folders.

The best way to ensure that the read-only attribute is removed from all subfolders and files in a folder is to navigate to the folder from the command prompt and then run the command **attrib**  $-\mathbf{r}/\mathbf{s}/\mathbf{d}$ . This removes the read-only attribute from all files and folders within the target folder, as well as its subfolders.

If you want to query for the presence of any files or folders marked as read-only, you can navigate to the folder from the command prompt and run **dir /ar /s**. If the command does not return any files as read-only, then you know that there are no longer any read-only files contained in the folder or any of its subfolders. Note that with customized folders, removing the read-only attribute from the folder may result in the customizations being lost.

#### **Viewing Security / User Rights**

With Windows XP Professional or Windows 7, click on Control Panel, Administrative Tools, Local Security Settings Policy, Local Policies, Security Options, and make sure that Network Access: Sharing and security model for local accounts is set to 'Classic'.

#### 17.2.2 Setting the Code Page Language in Windows

## Step 1 Navigate to your Control Panel

Select the Regional and Language Options.



### Step 2 Select the "Regional Options" tab

Make sure that under "Standards and formats", "English (United States)" from the drop down list is selected.

Reg	ional and La	nguage Options	? ×
R	egional Options	Languages Advanced	
	Standards and	formats fects how some programs format numbers, currencies,	
	Select an iten	n to match its preferences, or click Customize to choose nats:	
	English (Unit	ed States) Customize	
	Samples		
	Number:	123,456,789.00	1
	Currency:	\$123,456,789.00	
	Time:	4:30 PM	
	Short date:	11/11/2008	1
	Long date:	Tuesday, November 11, 2008	
ſ	Location		
		ces provide you with local information, such as news and ct your present location:	
	United State	s	- I
		OK Cancel App	yly

## Step 3 Select the "Advanced" tab

Again, make sure you select "English (United States)" from the drop down list is selected.

Regional and Language Options ? ×
Regional Options Languages Advanced
Language for non-Unicode programs
This system setting enables non-Unicode programs to display menus and dialogs in their native language. It does not affect Unicode programs, but it does apply to all users of this computer.
Select a language to match the language version of the non-Unicode programs you want to use.
English (United States)
Code page conversion tables
<ul> <li>✓ 50229 (ISO-2022 Traditional Chinese)</li> <li>✓ 51949 (EUC-Korean)</li> </ul>
<ul> <li>✓ 51345 (EOC-Rolean)</li> <li>✓ 52936 (HZ-GB2312 Simplified Chinese)</li> </ul>
54936 (GB18030 Simplified Chinese)
<ul> <li>✓ 57002 (ISCII Devanagari)</li> <li>✓ 57003 (ISCII Bengali)</li> </ul>
Default user account settings Apply all settings to the current user account and to the <u>d</u> efault user profile
OK Cancel Apply

Now click the OK button to finish and save the settings.

# 17.3 General Protection Fault and Freeze-up Problems (C5 Errors)

#### 17.3.1 General protection fault errors and freeze up problems can be caused by:

Insufficient RAM memory Insufficient hard disk space Insufficient swap file size Hard disk corruption Too many programs running at the same time or two programs are conflicting Insufficient Resources Memory leakage Poorly written drivers (screen, print, etc.) Conflicting hardware addresses and interrupts Video driver conflict Driver and or program conflicts in upper memory Marginal network hardware Invalid temp directory Corrupt program or database files (exe, dbf, fpt, cdx, mem, frx, frt) Fragmented hard disk (local and or remote) Print Spooler is turned off Continuous backup programs

#### 17.3.2 Insufficient RAM Memory

pc/MRP for Windows requires a minimum of 8 Megs of RAM. To check how much RAM your PC has, go to the Start Button, select settings, select control panel, select help and then select about Windows.

#### 17.3.3 Drive Space is critically low, insufficient hard disk space, has only 0 Bytes Remaining

You can check how much RAM your PC has by going to the MSDOS prompt and entering the command CHKDSK, then hitting Enter. Your screen will indicate the amount of bytes on your hard disk available to your PC. If your PC has less then 20,000,000 bytes available on disk, delete non-essential files on the hard disk to increase the space available on your hard disk. Else, reboot the workstation, make sure the user has modify or higher sharing and security rights to the pcMRP folder, and check user's disk quota.

#### **17.3.4 Insufficient swap file size**

Windows 95 requires at least 20 Megs of hard disk space for a swap file. To check and or set your swap file size with Windows 95 you would select start, select settings, select control panel, select systems, select performance, and select virtual memory. If the free hard disk space is less than 20 Megabytes, you should remove unnecessary files from your hard disk to free up a minimum of 20 Megabytes. Be sure the radio button allowing Windows to manage memory is selected.

#### 17.3.5 Hard disk corruption

You can use Microsoft's program called SCANDISK to check for hard disk corruption. If SCANDISK finds errors it can correct the errors, unfortunately in some cases the damage may have already been done (cross-linked files), and one or more files may be permanently damaged. Only re-installing the damaged file would correct the problem.

To run SCANDISK from Windows 95, exit Windows and go to the DOS prompt. Change to the Windows command directory by entering CD\WINDOWS\COMMAND [Enter] and then SCANDISK [Enter].

#### 17.3.6 Too many programs running at the same time or two programs are conflicting

Windows can crash if too many programs are running at the same time taking up additional resources. Users have a tendency to load up programs (anti-virus, screen savers, office, etc.) in their start up file and run them in the background. Try running pc/MRP by itself to see if the frequency of crashing and or freeze ups is reduced. When programs are placed in the startup menu, these programs are drawing valuable resources even though they are not being used. Remove all programs from your startup menu and see if the frequency of crashes and freeze ups are reduced.

To check the number of programs running with Windows, press the Control ALT and DEL buttons, select Task Manager, and Applications.

Virus checkers that remain active during normal activation can cause problems. Deactivate the file system protection but not the email and internet protection to see if that solves the problem. If it does, set it to exclude checking the .DBF, .FPT, .FRX, .CDX, DBT, .DCT, & .DCX file types or better yet exclude the pc/MRP folder from real time protection.

#### 17.3.7 Memory leakage

Some Windows programs display memory leakage. Going into and out of various programs will result in Windows losing memory resources as most programs do not give back the original amount of memory they used after they have been run for awhile. If crashes are occurring in the afternoon, check the computers resources, if they are down, consider rebooting at lunchtime as a matter of routine precaution to recover lost memory.

#### 17.3.8 Conflicting hardware addresses and interrupts

PC devices that occupy the same address or interrupt as another device can cause general protection fault and freeze up problems.

To check for hardware device conflicts with Windows, select start, select settings, select control panel, select system, select device manager. If any of the devices display a ! in a yellow triangle, click on properties to see the conflict.

#### 17.3.9 Video driver conflict

Non-standard OEM video drivers can cause problems with FoxPro for Windows. Install Window's standard 16color VGA driver and see if that fixes the problem.

To install the standard 16-color VGA driver in Windows 95 select settings, select setup, select options, select change system settings, select display, select VGA. If that clears up the problem, use the standard VGA or SVGA driver in the future.

Try running Window 95 in a "safe" mode (no program is allowed to use upper memory). Turn on the PC and press the F8 key when you see the words "Starting Windows 95". Select the "Safe mode". The safe mode does not use config.sys, autoexec.bat, command.com, windows drivers, print drivers, network drivers, or the start up programs. It uses Window's own generic 16-color VGA driver.

#### 17.3.10 Driver and or program conflicts in upper memory

Drivers and or programs can conflict with other drivers and or programs in the upper memory area.

Try running Window 95 in a "safe" mode (no program is allowed to use upper memory). Turn on the PC and press the F8 key when you see the words "Starting Windows 95". Select the "Safe mode". The safe mode does not use config.sys, autoexec.bat, command.com, windows drivers, print drivers, network drivers, or the start up programs. It uses Window's own generic 16-color VGA driver.

#### 17.3.11 Marginal network hardware

Marginal network cards and or cables can cause intermittent crashes. To stress test the network, go to each workstation and copy the contents of a large directory from the server to the workstation. The directory copy should take at least 5 minutes to test the network card, hub and cable adequately. As a final test, copy (not move) a directory on the server to another directory on the server. If the last test fails, the network card on the server may be bad.

#### 17.3.12 Invalid 'temp' or hidden local directory

At the command prompt, type ?SYS(2023), MSG(GETTEMPPATH()), or Select Configuration, About pc/MRP, and press F1. See if the TEMP variable points to a valid (existing) directory.

The BEST method would to run Windows Explorer and enter %temp% in the address bar and press GO. This method will give you the full path name.

You must then create such a directory if it does not exist.

The local temp directory file could be hidden. To unhide the file, open Windows Explorer, click on options, view, and un-check "Hide protected operating system files". You may need to work your way up the chain of folders containing the "temp" folder.

#### 17.3.13 Corrupt program files or data base files

Corrupt index files can cause general protection, illegal operation errors. Use the Configuration menu and select, "Re-index all files", to see if that corrects the problem. If you get a **stack fault error** or **Internal Inconsistency Error** message, delete the associated idx files and re-index.

Data base files can become corrupt by exporting the dbf file to Excel, editing the data and importing the Excel file back into pc/MRP. (Excel can change the structure of a column on its own based on the contents of the column.)

#### 17.3.14 Sleep Mode

Disable.

#### 17.3.15 Fragmented Hard Disk

Defrag your local hard drive.

#### 17.3.16 Print Spooler is turned off

Select Control Panel, Printers (and Faxes), right-click on the default printer, and select Properties. Select "Print to spooler", not "Printer".

#### 17.3.17 Allowed DO nesting level exceeded

While generating an Infinite Bucket MRP, you get the error message: Allowed DO nesting level exceeded. This means that you have a recursive BOM structure (a BOM that is calling itself). (Also see 12.9)

- 1. Go to Configuration, User Connectivity, select Set Admin Lockout.
- 2. When everyone has logged off pc/MRP.
- 3. Create a backup of the pcmrpw directory.
- 4. Select Modules, BOMs, Audit BOMs, Yes, Compile, do not step-thru.
- 5. Select Yes to check for recursive BOM structures.
- 6. A report will be generated if there are recursive BOM structures (BOMs calling themselves).
- 7. Remove the Admin Lockout.
- 8. Fix the affected BOM structure and re-run the Infinite Bucket Generate Action Items process.

#### 17.3.18 Continuous backup programs

Using a continuous backup program might cause frequent crashes in pc/MRP. The reason is that every time a file (e.g. the Purchase database table) changes, the program tries to back up that file. With many concurrent users the file might change again and again. The continuous backup program might not be ready with a previous saving process while the file changed again and again. Instead of a continuous backup program, use the backup method suggested in Chapter 15.2.

# **17.4 Error Messages with Numbers**

**Note**: The Error.log and VFP9RERR.log files in the pc/MRP folder can be extremely valuable when trouble shooting errors. Both files can be opened using Notepad. The Error.log file contains error messages captured by pc/MRP. VFP9RERR.log contains operating system error messages captured by Visual FoxPro.

#### 17.4.1 File does not exist (error 1)

- The file pc/MRP is trying to find does not exist. This often occurs if you have selected a custom printout that does not exist instead of a standard printout. If you are running the Audit BOM program and the missing file is BOMUPD.MEM, run the cost roll up option in inventory to generate a new BOMUPD.MEM. If you are trying to enter or edit the address logbook and get this error msg, someone has deleted a file named BLKEDIT.WRI and you must restore this file to the pcmrpw directory. Another file often deleted is BOMTEMP.DBF. This file is necessary to print out BOMs and can be restored from a backup.
- The pcmrpw.exe file is broken or corrupt. Copy in a recent (same version and revision!) pcmrpw.exe file from a backup copy or pcmrpupd directory.
- Name of .FXP file that is causing the error msg starts with FIND indicating pc/MRP cannot find an index file. Re-index the data base table that pc/MRP is working with or use pc/MRP's Configuration Module and run the re-index all files option.
- If the error message says CCARD.DBF doesn't exist, open the sales or invoice form and change the initial value of the rcCardNo variable to "".
- pc/MRP's CONFIG.MEM file may contain extra variables or invalid variables such as local.mem or an invalid drive reference. Contact Software Arts, Inc. for a copy of the program CLRCONFG.EXE. Run CLRCONFG.EXE from Windows Explorer to clean up your config.mem file before you perform the update.
- If the error is "CLEANPATH DOES NOT EXIST", a library was not loaded or is corrupt. Reboot your computer and start again.
- If the error is because of a missing .fxp or .prg file, reboot the computer. If that does not work, restore the pcmrpw.exe from a backup.
- See: **17.4.2091** if you have reason to believe that the database is corrupted.
- If the path to the file is located in your temp folder:
- Your temp folder could be hidden.
- To unhide the file, open Windows Explorer, click on options, view, and un-check "Hide protected operating system files". Now you must go to properties of the hidden folder and un-hide it and any parent folders so pc/MRP can see the temp directory.
- Disable the local workstation's virus checker. If that solves the problem, exclude the pcmrp folder from real time virus scans. If you have **McAfee** and can not exclude the pcmp folder, launch the McAfee app and click Manage Security and then click on Virus & Spyware Protection Real-Time Scanning. On the next screen click on Real-Time Scanning link. Finally, click on Settings -> Scan these files -> and change from All Files to Programs and documents only. Click on the Apply Button. You may need to reboot your system.
- It could be that McAfee was uninstalled but is still running. Reboot. If that doesn't help, you might need to go to Control Panel, Program Files, and repair or go to a restore point (very risky).
- If you are running McAfee Endpoint Security and Terminal Services, exclude c:\users\\*\appdata\local\
- You may not have rights to your temp folder. Allow Software Arts to download to the users PC and Run as Administrator a batch file named pcMRPTempFolder.bat which is located in k:\v910, K:\v914 and higher. This will restore the users rights to his temp and temp\pcMRP folders.
- If the file is arryrecno and you are on a single user 9.20 version of pc/MRP, auto upgrade to version 9.20P or higher.
- If this error occurs while using pc/MRPs Task Scheduler, upgrade to 9.40J or higher
- If doing a Cost Roll Up and it prompts for a database file, restore trail.dbf by emtering checkdbf("trail".3)

#### 17.4.3 File in use (error 3)

- Two users have logged in with the same name or no name and are printing or displaying a BOM. Logging in with the same name or no name causes both users to use the same temporary BOM file.
- If you are the one who caused the file in use error message, returning to the "Main Menu" will close the file and fix the problem.

- If you get this error when trying to modify a custom report/form using Option 24: Make sure that the .FRX and the corresponding .FRT file have the same name. If you rename one of these, you must rename the other one the same name.
- This might be caused by a phantom lock on the server. Call Software Arts, Inc, or follow the instructions at <a href="http://www.pcmrp.com/it101/2003closeopenfilestart.htm">http://www.pcmrp.com/it101/2003closeopenfilestart.htm</a> or reboot the server.

#### 17.4.4 End of file encountered (error 4)

Re-index the related data base file(s)

If you got error 4 right after deleting and removing a part from Inventory and then clicked Next; you can ignore this error, the part was probably the last record in the database and there is no next record.

#### 17.4.5 Record out of range (error 5)

- The index file that pc/MRP is trying to use needs to be re-indexed. Go to pc/MRP's Configuration Menu and select "Re-index all files".
- The index file may be broken in such a manner that re-indexing does not help. In that case, the index file must be deleted. Call Software Arts for help in determining the name of the .idx file to delete. (suspend with tag() in debug window)
- This error message can occur if you have an apostrophe or a quote character in your part number.
- If this occurs when saving an invoice, replace area.mem and rename the areas, or use Option 34 and rename one or more areas then save the changes.
- pc/MRP is stored under a Program Files (x86) folder. Move the pc/MRP to its own folder under the c:drive on the server.

#### 17.4.7 File you are attempting to rename already exists (error 7)

If you are removing records marked for deletion, you do not have deletion rights or another user has ownership of the file or folder.

#### 17.4.9. Data Type Mismatch

Call Software Arts.

#### 17.4.10 Syntax Error (error 10)

- If this message appears when you are trying to scroll a data base file, the field you are trying to scroll on is blank in every record in that data base file. Edit a record in that data base file and enter some data in the field you are trying to scroll on.
- If this error appears during a cost roll up or an audit BOM, search for and delete an inventory and or BOM record with a blank part or BOM number.
- If this error message occurs when you are scrolling, and it does not display the scroll window, it could be caused by an older version MSG.DBF. Call Software Arts and they will walk you through installing the correct MSG.DBF file.
- pcmrpw.bmp is corrupted; restore from backup.
- For versions **8.90S** and lower, could be caused by a double quote (") in the bomno field. Please upgrade.

#### 17.4.11 Invalid Function (error 11)

- Database file structure has been altered by Excel. Delete the dbf file, restore from a backup then re-index.
- When creating a custom report or form, the user used a function for the wrong field type (e.g. a string function on a date or numeric field).
- If this error occurs while you are running an exploded BOM, MRP, or cost roll up report, check for a BOM that calls itself, by setting an admin lock and running the "Audit BOM" report. See Section 17.3.17.
- If a BOM has a part number without an A, P or L in its part\_assy field and you are running a check availability report, this error can occur. Edit the part and add an A, P or L to its part\_assy field.
- Control Panel, Regional and Language not set to English US (must be set in 2 places).
- If converting a sales quote to a sales order and changing the date required, update to 9.40E or higher.

### 17.4.12 Variable not found (error 12)

This message will appear if pc/MRP cannot find a memory variable. Call Software Arts if this message appears.

- If the error occurs when you run a custom report, try to run the standard report instead. If the standard report does not give an error, you probably run the wrong custom report for the selected option.
- If the missing variable is the name of an index file, set the admin lock and reindex that file. If pc/MRP can not recreate the .CDX file except at the command line, use Windows File Explorer to rename SAEIU.dll to SAEIU\_OLD.dll and re-index.
- If the missing memory variable is LEV, the BOMTEMP.DBF file has been overwritten and must be restored from a backup copy of BOMTEMP.DBF. The BOMTEMP.DBF file's first field is LEV.
- This error msg can appear if the data base file structure version does not match the pc/MRP's program version.
- If you are trying to print out a BOM, set an admin lock and run the Audit BOM procedure and then fix any errors it may have reported.
- Could be an alpha character mismatch, update to the newest revision level, or call Software Arts.
- If the error occurs when you are entering or editing the address module, you may have to delete one or more of the drop down address lists. Use Configuration, Settings and Utilities to re-enter any blank lists.
- If the variable ByPWUser is not found, copy the wp.dbf file from a back-up copy of pc/MRP into your current production pcmrpw directory.
- If you install a newer version of pc/MRP over an older version of pc/MRP (this is NOT the same as updating an older version) re-install the new version of pc/MRP in a different directory.
- You are doing an Accounting, GL Transactions, New, "A" type, trx# and get an error. #12, line 123, proc transcr.init .../transcr.sct Variable (account lockout date is not found). The file 'acctdefault.mem' may be damaged. Restore from a current backup or delete the file. If you choose to delete the file, you must go to Configuration, Settings & Utilities, Option 14 to reset the lockout date. Please work with your accounting department to do this fix.
- A computer crashed while accessing a database file causing the index file (databasename.CDX) to become LOCKED. Verify by going to the pcmrpw directory and trying to rename the 'databasename.CDX' file. If not able to, follow the instructions listed above to remove the file's LOCK.
- Error process ENTERTRA.FXP, Variable 'CABYDESC' is not found. Reindex via Accounting, GL trx, index.
- Kaspersky Anti Virus program on the server or any workstation can cause this problem. Turn off Kaspersky and install a different anti virus program, or add the entire pcmrpw folder to Kaspersky's list of trusted applications/folders.
- If the variable is MRPPARTP in PRMRP2.FXP: Generating an MRP should correct the problem. If the error occurs when generating the MPR, reindex first. Or delete MRPPART.DBF.CDX .FPT and run the MRP.
- If the variable is paCategorypre, rename tasks.clf to tasks.bad or restore tasks.clf from a backup.
- If your pc/MRP folder is under a program files folder, copy and paste the pc/MRP folder to the c:drive.
- If the error message includes MDEFAULT, set an admin lockout and re-index the Inventory file, partmast.dbf.

#### 17.4.13 Alias (file name) (error 13)

- If the error message is ALIAS SULF not found, and you are on version **8.90**, upgrade to the latest revision.
- If the error message is "Alias is not found" from PROCEDURE INVOICESCR.UPDSOQTYSHIP and you are trying to edit an invoice, then check if the sales order line item really exists.

#### 17.4.15 Not a table/dbf file (error 15) Also see Sections 17.4.2091 and 17.5.53

- If the dbf file is a pc/MRP main data file (ACTMPLT, ADDRBOOK, BOM, CHARTACC, ECN, INVOICE, LABOR, PARTMAST, PURCHASE, REQUEST, RECEIVE, RTMPLATE, SALES, QUOTE, SNLOTDET, SNLOT, STAXENT, STOCKTRA, TRAIL, TRANSACT, ALTCUR, USERSETS, ROUTING) call software Arts, or restore from a backup.
- If the dbf file is your password data file, restore from a backup or you can call Software Arts for an authorization code to re-create the file with one user MASTER, with a password of MASTER. If you choose to re-create the file, you will have to re-enter all of your user names, passwords, and module rights.
- The Software Arts technician may ask you to press Ctrl-F12 and look for a memory variable named mdbfname that contains the name of the corrupt dbf file.
- Many of the database files can be deleted (pc/MRP will automatically recreate them): For a list see <a href="http://www.pcmrp.com/vfp101/pcmrpsdatabasefilestemporary.htm">http://www.pcmrp.com/vfp101/pcmrpsdatabasefilestemporary.htm</a>

### 17.4.24 Alias name is already in use (error 24)

• Right click the pc/MRP shortcut and select Properties. If the shortcut is a UNC address, change the shortcut to the equivalent mapped drive address in both Target and Start in.

### 17.4.26 Table is not ordered (error 26)

- RAM memory has become corrupt or network delivered a corrupt exe file. Reboot the computer and try again.
- Re-index using Option 27 in the settings and utilities.
- If the error is for 'process scroll4.sct', delete the file 'msg.dbf' from the pcmrpw directory and re-log-in.

#### 17.4.30 Position is off screen (error 30) Not

- The **foxfont.fon** file is missing or corrupt. Restore the foxfont.fon file.
  - 1. Click on Start, Control Panel, Fonts
  - 2. On the File menu, choose Install New Font
  - 3. Browse to the pcmrpw directory
  - 4. Select the foxfont.fon that is listed
  - 5. Press OK
- Another FoxPro application is active and is using the pc/MRP foxfont.fon font.
- Make sure this is not Error Code -30, see section 17.11.6

#### 17.4.31 Invalid Subscript Reference (error 31)

- Reboot the computer.
- Document being edited has an invalid document number (maybe a lower case letter exists in the document number). Call Software Arts to change the document number from the command line.
- The area.mem file contains quote marks in one of the area names. Remove the quote marks via Option 34.
- Re-index using Option 27 in the Settings and Utilities module.

#### 17.4.39 Numeric Overflow (error 39)

- Data has been added to a pc/MRP dbf file from another program such as Excel causing numeric overflow in one of the fields in that file. Use Option 41 in the Settings and Utilities to find the overflow. If you click "Reset overflows to Zero" that will fix the error, but you won't know which item was causing the problem. It is better to just indentify the record/field and change it to a valid value.
- A BOM is calling itself. Set an admin lockout, backup the Partmast and BOM tables, then run 'Audit BOM' and print the report to find the BOM.
- There is no true default print driver.

### 17.4.41 Invalid or missing memo file (Error 41)

- Also see: 17.4.2091 if you have reason to believe that the database is corrupted.
- Another option is to copy the pcmrpw directory to the local C: drive, run pc/MRP, go to modules, re-index the affected database file, and copy the database file's .dbf, .fpt, & .cdx files back to the server.
- If this error message is displayed when generating an MRP, and it involves an ALTER TABLE command, the partmaster.altpartno or sales.comment fields may have illegal characters in them. Call Software Arts, Inc.
- If this error message is displayed when generating an MRP and involves e.g. MRPBOM.FPT, then delete all 3 MRPBOM files. If that did not help, try to use DRU to repair the original BOM file.
- A last case option would be to call Software Arts for directions on restoring a backup copy of the DBF, FPT and CDX files and re-entering lost data.
- If the memo file name is USERSETS, call Software Arts to set an <u>admin lock</u> and run "FIXUSERSETS()" from the command line.
- Check and make sure all the computers have zeroed out their SMB2 cache time and then repair the file.
- If you get this error message and you can not replace the memo file because it is in use, call Software Arts, Inc. The support person will open the Command Line (from the error window) and enter the following:
  - o set datasession to 1
  - o use

Transfer a new copy of the table from the Software Arts development folder with the same version number. Then enter into the command line:

• use <name of database>

#### o set datasession to 2

If this occurs in the middle of an update, you can now press the Continue button.

- If you get this error sporadically, test the RAM as it might be unreliable.
- May be a broken index; if so, Option 27 Reindex All will fix it.

## 17.4.43 Insufficient memory (Error 43)

- Insufficient RAM memory
- If this error occurs while editing a PO or sales order, the PO or sales order has too many line items. Increase the RAM memory on that workstation and/or add the line 'me limit=60' (no quotes) to your config.fpw file using notepad. To limit the number of line items per PO or SO select Option 63 in the settings and utilities.
- If this error occurs while running a cost roll up or generating an MRP, set an admin lock and run the "Audit BOM" option. (Modules, Bill of Materials, Audit BOM) The audit option will check the BOM module for a BOM that calls itself. It will display a list of errors in the Bill of Materials module. Correct the errors and the cost roll up or MRP should run correctly.
- You are running too many programs at the same time, close all programs, reboot, and re-start pc/MRP.
- Index may be broken. Re-index the affected database table.
- Restore the related database file(s) from a backup.
- Also see: **17.4.2091** Table 'tablename.dbf' has become corrupted (error 2091), if you have reason to believe that the database is corrupted.

#### 17.4.50 Report file invalid (Error 50)

- Report file was not updated or updated incorrectly. Call Software Arts for the name of the report file. Then copy over the correct .FRX and .FRT file from the PCMRPUPD directory to the PCMRPW directory.
- Related index files may need re-indexing.
- If you get this error when you are attempting to modify a report using Option 24, this may be a 16-bit report. Call Software Arts to run: CONVERTFORM () from the command line. This function will allow you to pick individual forms to convert to 32-bit.
- pc/MRP directory is missing RPTCON60.EXE file; call Software Arts.
- Call Software Arts to clear the printer codes in all forms by running 'frxhpfix\_all()' at the command line.

#### 17.4.52 No database file in use (Error 52)

If you are running an MRP report and a BOM exists in the partmaster but not in the BOM file and you hit continue after the warning msg you can get this error.

#### 17.4.43 Run-time error '53' File not Found.

- The pcmrp.exe file may be missing. Restore from a backup with the same version and revision (check config.fpw with Notepad) or call Software Arts.
- If this happens during an auto update, pcmrp.exe may be missing. Copy pcmrp.exe from original update subfolder into the pcmrpw folder. Run pc/MRP as Admin and rerun the auto update option.
- Reboot the server, rename the pcmrp.exe file, copy in the new pcmrp.exe file, and modify the config.fpw file.

#### 17.4.55 Memory variable file is invalid (Error 55)

.mem file is broken or corrupt. Call Software Arts to get the name of the file and copy in a new .mem file from a recent backup or the pcmrpupd directory. If the file is a local.mem file, it can be deleted. pc/MRP will create a new file. If the file is USERSETS.FXP (contains user scroll and report settings), you can call Software Arts, Inc. to set an <u>admin lock</u> and run DO FIXUSERSETS from the command line.

#### 17.4.56 There is not enough disk space for [path]:\pcmrpw\filename.fpt (Error 56)

- Check the disk space and quota allocation on the server.
- Check the user access rights to the pcmrpw directory on the server.

## 17.4.107 Operator/Operand type mismatch (Error 107)

- A character field was imported as a numeric field or a numeric field was imported as a character field. Correct the field type and import the data again.
- The user's USM file and/or the default USM file is corrupt. Delete both files and log back into pc/MRP with the user's name and password.
- If you are using version 9.10, editing a sales order and adding a new line item, update to the latest revision.

#### 17.4.108 File in use by another (Error 108)

- You have attempted a 'USE', 'DELETE', or 'RENAME' command on a file that is in use by another person on the network.
- File with same name in another directory connected by the path statement is in use. This can happen with pc/MRP's .USR files. Assign the user another name for logging into pc/MRP.
- Your server has a phantom file or record lock on the file. Call Software Arts, Inc.
- Rename the .dbf, .fpt, .cdx files, index the file (pc/MRP will create a new empty file). Append from the renamed file.
- Give the person who runs the scheduler a new name and password. Then delete their original name and password in the password module.

#### 17.4.109 Record in use by another (Error 109)

You have attempted to write to a file that is locked by another user. Go to the server and see who is using the file. (Section 17.4.1705)

#### 17.4.110 Exclusive open of file is required (Error 110)

- Someone else has opened the file and you require exclusive use of the file (re-indexing or removing marked records). Wait until they are finished. You may be the someone else if you have two or more copies of pc/MRP open.
- File was left open when a user shut off power to their PC. Get everyone off the network and reboot the server or use Computer Management to close the open files.

#### **17.4.111** Cannot write to a read only file (Error 111)

- File has been attributed read only. In the PCMRPW folder no files should be attributed read only.
- Another program, such as Excel is using the .DBF file pc/MRP is trying to access. Close down the program.
- The user does not have network permissions to modify the related file. Go to the server, right-click on the permy folder, select Properties, Sharing tab, click on the Permissions button and make sure everyone accessing pc/MRP has Modify or Full Control rights. This can also be caused by a phantom lock that will have to be released as per Section **17.4.1705** error write-up.
- Right click on the PCMRPW folder, select properties, remove the 'user' group from the pc/MRP folder and then add the 'user' group back to the PCMRPW folder.
- Cannot update the cursor SULF, since it is read-only. The user does not have MODIFY rights to the pc/MRP directory. It is also possible that the security settings had been lost. Try setting sharing and security rights to modify for the everyone group.
- Cannot update the cursor SULF, since it is read-only. If you recently restored pc/MRP from a backup, and the backup was in a .zip file (not recommended) then several files might get attributed as blocked. In this case the SULF table might get read-only even if you unchecked the read-only box. Make sure all files are unblocked (you can download a Microsoft tool from the Internet) and then mark all files (including all files in the subfolders) <u>not</u> read-only.
- Cannot update the cursor SULF, since it is read-only. If you get this error right after starting the program, and the pc/MRP icon looks unusual: Open Windows Explorer and try to run the application by double clicking the pcmrpw.exe file. If this works, delete and replace the shortcut.
- If this is a DBF file, you can rebuild the file using Software Arts' Data Recovery Utility.
- In one case (TRAIL.DBF) rebooting the server helped.
- If the file in use is TempInv, this file is stored in your local temp folder. Go to the command line and enter "SET DATASESSION TO 1", "\_CLIPTEXT(DBF("TempInv")), you can then go to Windows Explorer and paste the contents of the your clipboard into the URL text box. It will locate the actual file in your temp folder. Try to delete an older file to make sure you have full rights to your temp folder. If you are using

Trend Micro switch to Windows Defender for your Anti-virus program. Other solutions we are looking at would be to put a 1 second delay after the file is created to give the virus checker time or create a pcmrp2 subfolder in the temp folder and exclude that folder from the virus checker.

• Backup software such as One Drive is locking the file when backing up to the cloud. Do not backup during working hours.

#### 17.4.112 Invalid key length (Error 112)

The product code size and suffix size equal or exceed the length of the entire part number. Decrease the product code and or suffix size.

#### 17.4.114 Index does not match table file (Error 114)

- Try to hit Retry to see if that will display the Address book (in chronological order). Still call Software Arts for repair.
- Index is broken. Rebuild the affected table index by **re-indexing**.
- If this is affecting the address book, and it seems that re-indexing only solves the problem temporarily, but the error occurs again, perform the following at each computer that uses pc/MRP: Click the Start button, select Control Panel,Computer Management, then Languages. Make sure the computer is set to English(US) (two places to set).
- If the file affected is not the Password file (WP.DBF), and re-indexing does not fix the problem, call Software Arts, Inc. for re-sorting or restore the .dbf, .dbt, .fpt, & .cdx files from a current back-up and re-index. Please note that you will lose any data entered into this file since the back-up file date. Example:
  - 1. rename addrbook.\* to addrbookbu.\*
  - 2. use addrbookbu
  - 3. sort to addrbook on id
  - 4. Modules, Address Book, Index.
- Another option, (not the preferred option, because it would have to be performed at each work station), is to call Software Arts and have them send a file named pcmrp\_external\_indexer.exe (found in K:\Toolbox\Visual\ExternalIndex\Distribution). Place the file in the pcmrpw directory. Double-clicking it will extract the following 6 files into the pcmrpw directory (if different, select the correct production directory):

saeiu.dll, saeiu.log, saeiu.tlb, saeiu.vbr, vfp6r.dll, vfp6renu.dll.

This will allow VFP6 code to re-index the files. pc/MRP will use these drivers whenever a file is indexed. On some computers, the computer administrator must log into the user's computer and then "regsvr32 {pc/MRP path}\DLLNAME.dll" from the Windows "Start, Run" window.

An easier way to register the re-indexing ".DLL" files is to go to the Windows 'Run' dialog window and enter: o regsvr32 {pc/MRP path}\vfp6r.dll

- o regsvr32 {pc/MRP path}\vfp6renu.dll
- o regsvr32 {pc/MRP path}\saeiu.dll

It is easier if you drag and drop the filenames, one at a time, onto the command line after the regsvr32. Remember to leave a space after the word regsvr32.

If saeiu.dll exists in the pcmrpw directory, pc/MRP will use the external indexer with or without the flag file and an indexing.log file will log all indexing events if it is in the pcmrpw directory. If an indexing.log file exists in the pcmrpw directory, opening it with notepad will tell you if pc/MRP used the internal or external indexer and what was indexed.

If you want to use the VFP9 index dlls, get everybody out of pc/MRP, rename saeiu.dll to saeiu \_orig.dll, reboot the PC, and reindex all files.

- Go to the command line (set an <u>admin lock</u> and create a backup) and type "tablerandomize()", press execute, and choose the table, like addrbook.dbf for example. <u>This is the preferred method to fix this problem.</u> If the first attempt doesn't work, try tablerandomize() 2-3 times, reindexing after each time. The external indexer cannot index character date fields correctly if option 18 is set to European. In this case, rename the saeiu.dll to saeiu-orig.dll, which will keep the VFP6 re-indexer from running.
- Re-build the DBF file using pc/MRP's data recovery utility. (found in: K:\Toolbox\Visual\Data Recovery\Installer App). This is the second preferred method to fix this problem.
- Last resort, add a space to the index command. For example: USE snlot EXCL MODI STRU

SnLot.SnBySn = UPPER(SNLOTNO+SUBSTR(PARTNO,1,15))+" "

(type right into the index name, do not use expression builder)

For Versions **8.60AA**, **8.63F** and **8.64A** and higher add file named IndexEXP.FLG containing just the modified index expression.

- To examine what PC and user is causing re-indexing problem, create a blank text file named **INDEXING.LOG**. This file records whenever somebody indexes and will fill up fast so delete it once it has served its purpose.
- If tablerandomize() and the Data Recovery Utility don't help, create a file containing the name of the file(s) that need to be indexed (for example partmast carriage return sales). Save this in the pc/MRP folder with the name HardIndex.LST (not .txt). Now when you index that file or index all, pc/MRP will 1. Create a backup of the database file in a sub-folder named Indexer BU, 2. Delete the original dbf file, 3. Create an empty copy of the dbf file, 4. Append the records from the backup into the new database file. This will rebuild the indexes in a different manner than the normal index command that may be having problems with illegal characters in the data base file.
- If the error displays while posting a month, it could be due to a broken historical chartmmyy.dbf file. Use Ctrl-F12 to determine the name of the broken dbf file. The variable MPRIORTABLE will contain the name. Use the command line to open up the prior historical accounts. If it is good, delete the bad dbf and copy the prior dbf and cdx and save them with the bad dbf and cdx files' name. Reclose the month again. If you were to reindex the chart of accounts table answered yes to reindex the historic chart of accounts, the historic chart of accounts would be reindexed.
- This error may be due to a child table. Reindex all to fix or find the table causing the problem.

### 17.4.125 Error 125 Printer not ready

Printer is configured as a network printer when it is actually a local printer. Reconfigure the printer as a local printer.

#### 17.4.202 Invalid path or filename (Error 202)

- pcmrpw directory is hidden.
- Network has lost connection with the server.
- BOMUP.MEM contains the wrong default directory. Delete the BOMUP.MEM, or do a cost roll-up.
- CONFIG.MEM file contains the wrong default directory. Run CLRCONFIG.EXE.
- If your computer does not have a C: drive (windows terminal workstation) select main menu and continue to use pc/MRP.
- Check to see if the pcmrpw directory contains remote.mem; if so, delete it.
- Image file no longer exists for the partnumber.
- If the program line is using an index, reindex that database file.
- If it involves a barcode, somebody deleted the barcode folder, re-install pc/MRP's Barcode Module.
- The document number (PO, Receiver, Sales Order number, etc.) contains a "\". Call Software Arts to run a command like the following:

Replace all ReceiveNo with strtran(ReceiveNo, "\", "R")

#### 17.4.356 Invalid Macro Key File Format (error 356)

An attempt has been made to use a macro file with invalid data. Delete the user's macro file (<username>.FKY). If that did not help delete all files with an ".fky" extension except the macro.fky. If that does not fix the problem, restore the macro.fky file from a backup.

#### 17.4.1000 Internal inconsistency error (error 1000)

Go to the Settings and Utilities Module and run Option 27 to Re-index all files.

#### 17.4.1098 API function UserError(1098) was called

If this error occurred during a revision update, make sure everybody is out of pc/MRP and repeat the revision update. A file named RevUpdate.log in the pcmrpw directory will display which file was not restored.

### 17.4.1102 Cannot Create File (error 1102)

- pc/MRP may be trying to install a barcode font, the foxfont.fon, or the SAHTML driver. Try logging into this computer as an administrator. If this error occurs with the barcode fonts, go to the control panel and select to add/remove fonts. Then select the fonts from the pcmrpw\barfont folder. Administration rights may be needed to download and install these fonts.
- If this occurs when you are exporting to QuickBooks and you are using QuickBooks 2006 and higher: These QB versions do not allow pc/MRP to backup the QBW file before exporting (you must do this from within QuickBooks itself before exporting). In pc/MRP, select Optional, QuickBooks, Set Exporter Default Settings, Backup Options, and uncheck the Perform Backups checkbox.
- File is locked by the server, see error 1705, somebody may have turned off their computer while a file was still open.
- Cannot create file ....\revload.exe. If you get this error during an auto-update from a work station, you might not have the rights to do the update on the server. Run the update from the sever, logged in as Admin.

### 17.4.1103 Invalid Seek Offset (error 1103)

See Section 17.5.33

#### 17.4.1104 Can not read file (error 1104)

- File is sitting on a bad sector. Use Microsoft's Scandisk to move data and mark out bad sector. Call your IT person. Go to the PC or server that actually contains the pc/MRP production directory. Start Windows Explorer, right-click on the drive that contains the pcmrpw directory. Select Properties and Check now. Check the disk without fixing or recovering errors. If it spots errors, copy the pcmrpw directory to another drive and then repeat the previous steps this time allowing the errors to be fixed.
- If this is a .CDX file, rename the file then reindex the table. Renaming the index file locks in the bad sector and allows the new index file to be placed somewhere else. The archives can be reindexed with Option 100.
- In some cases repairing the file can solve the problem (see error 2091).
- Exclude the PCMRPW folder from your virus checker.
- Use an Ethernet connection rather than a wireless connection or install a repeater.
- Use UNC Addresses not mapped drive addresses in your pc/MRP desktop shortcuts. This is especially true if a domain controller is controlling your network.

#### 17.4.1105 File write error. (error 1105)

- Hard disk is full.
- User does not have modify rights to the pc/MRP directory; usually 'pcmrpw'.

#### 17.4.1108 Picture too big or wrong format (error 1108)

• A picture has been loaded into memory and is corrupt. Reboot computer. If clrmem2.fxp is displayed it could be the pcmrpw.bmp file.

#### **17.4.1109** File is to large (error 1109)

• Database file is too large, get an Admin Lockout and run Remove records over xx years old. If it is the Stocktra database run the Renumber Function from the command line. With pc/MRP versions 9.22B and higher will automatically allow pc/MRP to auto increment stockroom records from 999999 to A00001, etc.

#### 17.4.1156 Duplicate field names (error 1156)

• Call Software Arts. The table might be corrupted or it's structure modified by an external application.

#### 17.4.1234 Subscript out of bounds (error 1234)

- RAM may have caused error; exit pc/MRP and Windows, then reboot and try again.
- pc/MRP has a bad .USM user file. Delete the broken user file (it will have the person's login name followed by the extension .USM. Also, delete the default.usm file so that pc/MRP will recreate the default.usm file. Re-enter pc/MRP under that person's login name and pc/MRP will automatically create a new user file. If this error occurs when updating to a higher version of pc/MRP and the error message references Upd814code.fxp, Press Ctrl-F12 and the variable lcUserFile will equal the name of the bad .USM file.
- PCMRPW.EXE file has been corrupted; install a new copy of PCMRPW.EXE (must be from same version).

- Database file has been modified. Select configuration then select settings and utilities, press the next button, select **Option 39**, print out the file structure of the database file involved and call Software Arts.
- For version 8.83D only: If you use the scheduler and get this error right after startup, call Software Arts and have them enter the following at the command line: RESTORE FROM schedule.mem DIMENSION laSchedSets[8] laSchedSets = "" SAVE TO schedule.mem ALL LIKE laSchedSets

### 17.4.1282 Insufficient memory (error 1282)

- Windows does not have enough memory left to run pc/MRP for Windows.
- Make sure your workstation has at least 8 megabytes of RAM
- Close any programs that are running concurrently with pc/MRP
- Make sure your hard disk has a large permanent swap file (10-30MB)
- Your computer may not contain enough RAM. Add the line "memlimit=60" (without quotes) to the config.fpw file. Config.fpw is a text file that can be modified with Notepad.

#### 17.4.1298 Summary band is too large to fit on page (error 1298)

#### or: Page header is too large to fit on page

- Workstation has a label printer selected as its default printer. Select a standard printer as the default printer.
- If you are using a Zebra Printer and a custom label, get the size of the custom label by editing the label. Select Configuration, Settings and Utilities, Option 24, right click on the label, select Page Layout and get the width inches. Estimate the height by looking at the grid, 1 Column. Go to Control Panel, Devices and Printer, Zebra Printer, Properties, Preferences and set the height and width to match.

#### 17.4.1405 Run Command Failed (error 1405)

- The directory is mapped as a drive. pc/MRP current update programs do not have this problem.
- If you are running the update through pcAnywhere and this error occurs, first run pcmrpupd.exe directly from explorer and then pcmrpw.exe.

#### 7.4.1410 Unable to create temporary work files (error 1410)

- If you get this error while Removing Marked Records, make sure the hard disk that contains your pcmrpw directory and files is not full.
- Select Configuration, About pc/MRP, and press F1 to see the location of the temporary directory or enter % temp% into the Windows Explorer address line. Make sure that the directory exists and that you have 'MODIFY' rights to it and the pcmrpw directory.
- Files are attributed READ ONLY.
- The user's temp directory is checked as "Hidden". Or a directory above in the path is checked "Hidden'.

#### 17.4.1426 Class Not Registered (error 1426)

- If this error occurs when updating from a previous version of pc/MRP to 8.20 and above, the computer you are updating from does not have MSXML3.0 installed. Either install from a newer computer that may have XML3 installed or get the MSXML3.MSI file from the Microsoft website to install.
- Process MRPMAIL.FXP OLE error. Contact Software Arts. Open Outlook (not Outlook Express), File, Settings, Trust Center, Macros, Enable All Macros, Apply Macro Security Settings. Close all programs. Reboot PC. Run msg(chkserver("outlook.application")). Now try to email as PDF with Outlook closed and then try again with Outlook Open. It may only work if Outlook open or closed.
- Also see Error 1429 about the '.OCX' files.
- If you receive the error when using an .EFX file, check for any date fields being sent to Excel. For example partmast.startdate should be dtoc(partmast.startdate) instead.
- pc/MRP cannot open up Internet Explorer or Outlook or Excel. Reboot, or at the pc/MRP command line enter msg(chkserver("internetexplorer.application")) or "outlook.application" or "excel.application". If chkserver returns.F. you may have to repair Office or activate the Microsoft program. To repair Internet Explorer, start In Private Browsing, select Internet Options, Advanced Tab, Reset, and restart your computer.

- If you are sending a report or a table to Excel and the error message says OLE error code 0x800a03ec: Unknown COM status code: Your might have more records than your Excel version can handle (65,536 for Excel 2003).You would also get this error if you are including memo fields and one value starts with an "=".
- If you get this error when sending a report to Excel, try the same report without any memo fields. If it works this time, your Excel might not be able to accept infinite length fields.
- If error message refers to ProfitAndLoss.Scx, Office or Word is not installed on users PC or the Terminal Server (if they are using Remote Desktop. Install Office or Word. msg(ChkServer("msgraph.chart")) will display .F. at the command line.
- If you get the error msg "System shutdown already scheduled", open IE, Tools, Internet Options, General, Uncheck "Delete browsing history on exit." Close all applications and reboot PC.
- If you get this error message when downloading price qty breaks, run pc/MRP as Administrator. After that you can run pc/MRP as normal.

### 17.4.1429 OLE Error (error 1429)

- If a QuickBooks error, see Section 16.16.6.1429.
- If the message mentions 'DTPicker' and 'date not within range' while attempting Option 14 in the Settings & Utilities module, delete the file 'acctdefault.mem' in the pc/MRP directory and do Option 14 again.
- pc/MRP contains two files named 'SAOCX.EXE' & 'SAIBTLC.EXE' in the pcmrpw directory. Locating these files in Windows Explorer and double-clicking on them it will register all of the '.ocx' files required by pc/MRP. (You need to be the computer administrator.) (If not able to run the files on the server, copy them to the workstation's desktop, and try to run there.)
- Otherwise call Software Arts, Inc with the name of the fxp file, the line number and the error message.
- Excel Trust Center File Block Settings is blocking Excel 97 2003 Work Books and Templates, see 17.11.4

#### 17.4.1435 XML Parse Error (error 1435)

- Caused by an improperly formatted XML file passed to XMLTOCURSOR() function.
- If displayed when updating and adding list items for 'Ship Via', delete the 'lists.tpx' prior to re- running the update program as the update program is unable to overwrite the original 'lists.tpx' file.

#### 17.4.1691 Library file is invalid (error 1691)

- Library file has become corrupt in memory, exit pc/MRP and restart your computer.
- Check the network for hub collisions. The hub light will go yellow or red when it is being used if there is a collision. Disconnect the workstation causing the collisions from the hub.

### 17.4.1705 File Access Denied (error 1705)

- Somebody else is using the file, the operation you are running requires exclusive use of the files, get everybody out of the file and try again.
- File is protected as Read/Only. Use Windows Explorer to remove protection.
- File is protected as Encrypted (listed in green color). Use Windows Explorer to remove protection.
- Exit out of windows, and re-enter windows
- If you have a NET.CFG = or SHELL.CFG, make sure the FILE HANDLES statement reads FILE HANDLES = 99
- Another application or program such as FOXPRO, R&R Report Writer or dBASE has opened the file for exclusive use
- You are trying to run a single user version of pc/MRP on a network as a multi-user product and either you have a second copy of pc/MRP open or another user has a copy of pc/MRP open.
- You are running a multi-user version of pc/MRP using Novell networking software and you have not flagged the five files sharable read only.
   Flag the 7 files CONFIG.FPW, MSG.DBF, FOXFONT.FON, PCMRPW.EXE, STARTMRP.EXE, FOXTOOLS.FLL FOXW2600.ESL SRO (sharable read only).
- Somebody turned off the computer power while in pc/MRP and after a file or record was locked. Users can either Reboot the server or close the locked file through accessing the server. The quick fix is to reboot the server. Make sure however, everyone is logged off the server. Then and only then, shut off the server and power it back up again. The file and or record will be unlocked.

Follow the instructions detailed at <u>http://www.pcmrp.com/it101/2003closeopenfilestart.htm</u> and also listed below:

- Go to the server. Start pc/MRP, set an Admin Lock, wait until you are the only user, then exit pc/MRP. There are no users at all in pc/MRP now. Make sure that no one else (UPS Shipping, Access, etc.) is using pc/MRP files.
- Select Control Panel, Administrative Tools, Computer Management, System tools, Shared folders, Open files.
- Find the PCMRPW folder. Since no one is using the program, no files in this folder should be in use. Select any pc/MRP resource file(s) that is(are) listed, right-click and select "Close the open file". If that does not fix this error then you will have to reboot the server. Once again, make sure everyone is

logged off the server if you choose to reboot.

- With the BOM module, if two people try to print out a BOM at the same time and both have logged in with the same name, the second person will get an error 1705. To prevent this, have everybody log in under a different name (mikes and mikeh instead of mike and mike)
- If error 1705 occurs with an index file, delete the index file and then rebuild it by re-indexing that file.
- You do not have modify rights (read, write, delete) to the pcmrpw directory. The pcmrpw directory and or the directory(s) above the pcmrpw directory have not been shared as full. Although the drive containing the pcmrpw directory may show modify control to everyone, the pcmrpw directory itself may have less than modify control rights to some files. To correct this situation open explorer and right click on the pcmrpw directory, select properties, select security (available on NTSF formatted drives only), select permissions, select modify control, check both the "Replace permissions on sub directories" and "Replace existing permissions" check boxes. Click on the OK button and Windows will give full control to all users for all files within pc/MRP.
- If you get this error when starting up, delete a file called local.mem and reboot.
- If you get this error while trying to scan for your browser, you do not have rights to write to your local windows directory.
- Somebody has taken over local ownership of a pc/MRP directory or file. To remove the local ownership of the pc/MRP directory, open Windows Explorer, right-click on the pcmrpw directory, select Properties, Security, Advance, make sure everyone has Allow All permissions checked, click OK, check Reset Permissions on all child objects, and click OK
- If the error process is 'Procedure reindex2\_openreindex2.fxp' then check that all users have modify rights or higher. If these rights are inherited, you must grant the same rights in the parent directories or change the rights to this folder, subfolders, and files. See <u>IT101 Slide show #2 or #3</u> depending on your server.
- If this occurs during an AutoUpdate and the file is REVLOAD.EXE, try the update again. The server got busy and did not release the file handle soon enough.
- You do not have full access rights to the pc/MRP directory or there is another copy of pc/MRP open. At the user's command line, enter "modi file revupdate.log" to view the name of the file causing the problem.
- If you not find this file with Windows Explorer, reboot your PC.
- If you get this error due to a charxxx.dbf file rename the dbf and cdx file and reclose the prior month
- If you get Access Denied, Calendar.dbf when inserting a new support contract code number, somebody is using the Infinite Bucket Calendar, wait and try again later

## 17.4.1707 Structural .CDX file not found (error 1707)

- User has created a .CDX index file for a .DBF file. Delete the associated .CDX file and re-index.
- A .DBF or a .CDX file is marked as hidden or as a system file on the server. Remove those attributes for these files on the server. No files in the PCMRPW folder should be marked as hidden or system files.

## 17.4.1712 Field name is duplicate or invalid (error 1712)

- If using AR report, delete billtmp.dbf., close all programs and reboot the PC.
- If mrppart is the file, the pcmrp folder may be "Replicated" on another server or a program named "Comodo" is running in task manager.

## 17.4.1718 File is marked as READ ONLY (error 1718)

- Temp folder is marked as READ ONLY. Try creating and deleting a text file in this directory using MS Notepad.
- Entering %temp% at window address bar will return the temp dir address.

- Kaspersky Anti Virus program on the server or any workstation can cause this problem. Turn off Kaspersky and install a different anti virus program, or add the entire pcmrpw folder to Kaspersky's list of trusted applications/folders.
- Show hidden files and folders and uncheck hide protected operating system files using Windows Explorer Tools Folder Options and View.
- If you are generating an Infinite Bucked and get the error message Avail.dbf is read only, remove an antivirus program named "Comodo" from that workstation. Or, the pc/MRP folder on the server may be "replicating" to another server.

#### 17.4.1734 Property ALIST is not found (error 1734)

- A dropdown list may be empty. Use the Configurations & Settings menu, Option 52 to enter at least one item.
- If you are updating pc/MRP see 17.7.5.2

#### 17.4.1915 Collating sequence "name" is not found (error 1915)

• An index file is broken. Call Software Arts, Inc. to delete the index file. This can be caused by a computer using a collating sequence for a different language causing the index to become useless for other computers. Delete the named index file (.idx) and add the line COLLATE = "MACHINE" to the config.fpw text file in the pcmrpw directory. You should also ensure that all users' computers are set to use "English(United States)" as the language option. Go to Control Panel, Regional and Language Options. On the Regional Options and the Advanced tabs, ensure that "English(United States)" is selected in the drop down boxes.

#### 17.4.1925 Unknown member "name" (error 1925)

- If you get this error msg while updating the partmaster file, change all semi-colons(;) to colons(,) in partmast descriptions. Command Line: Replace all descript with chrtran(descript, ";", ",").
- If this message contains the word OLE, see Section 17.5.24 Class not registered.

#### 17.4.1943 Unknown Member "recipients" (error 1943)

- Outlook must be running when emailing documents (like POs, etc) as pc/MRP uses MS Outlook to attach the document to the email (pc/MRP does NOT use Outlook Express).
- In some cases a reboot will help.

#### 17.4.1951 Cannot clean the object UPDATEREMINDER because it is in use. (error 1951)

You can either:

- 1. Run the auto update from the configuration menu instead of from the pop-up message saying you have not updated in a while.
- 2. Do a manual update by downloading from the FREE UPDATES page on our website.
- 3. Call Software Arts, Inc to help resolve this error.

#### 17.4.1957 Error Accessing Printer Spooler (error 1957)

- Clear and or Delete the pc/MRP printer driver from your computer's printer list and then re-login to pc/MRP so the program can re-install the pc/MRP printer driver.
- Run pc/MRP as administrator. If that fixes it, try to find the local Security Policy that is forcing you to run the print driver as the administrator Control Panel, Admin Tools, Computer Management, Local Security.

#### 17.4.1958 Error Loading Print Driver (error 1958)

- Try rebooting the client PC. If the error persists, reboot the server and/or un-install and re-install the print driver as in 17.4.1957.
- Type FRXHPFIX() at pc/MRP's command line and select the '.frx' file from which you want to remove the stored printer codes. To remove the printer codes from ALL the forms, enter FRXHPFIX\_ALL() at the command line.
- Rename the print driver. Re-install the print driver with a different name, make sure to set it to the correct port USB or LPT1.
- See Section 17.11.1 & 2.
- Repair or Re-install Acrobat Reader

#### 17.4.1960 Illegal definition of a variable (error 1960)

Press 'Main Menu' button and continue to exit pc/MRP. Re-start pc/MRP and continue.

#### 17.4.1976 Cannot resolve backlink (error 1976)

Run (clear.table backlink("database filename")) will return 1 if backlink removed, 0 if it did not have a backlink or table is invalid, and -1 if it could not access the file.

#### 17.4.2005 Error loading file (error 2005)

- Can be caused by a phantom file lock.
- Try rebooting the client PC. If the error persists, re-install pc/MRP from a manual update on our website for your version. This is possibly caused by a bad uncompress of the update files.
- Can be caused by a corrupted database file, see error 2091.
- Can be caused by a space in the Windows user's name, update to 9.10P, 9.20J or higher
- Index tag not found, re-index all files.

#### 17.4.2005 API call caused an exception (error 2028)

• If this error occurs when entering or editing a credit card number for a specific address ID, browse the credit card database (it may be the last (most recent record in the database). Disassociate this record with any address by entering "xxxxxxx" or some other strange address ID into the AddId field and see if this fixes the problem.

#### 17.4.2062 Invalid Key (error 2062)

The receiver, sales order, invoice, or purchase order has a duplicate item number.

#### 17.4.2066 Index file is corrupted (error 2066)

Index file "....cdx" tag "..." is corrupted. Reindex the module.

#### 17.4.2091 Table 'tablename.dbf' has become corrupted (error 2091)

If the file is a temporary DBF file, such as auditmp.dbf, you can simply use Windows Explorer to delete (or rename the dbf file and its index if your wish), and then retry the program that was displaying the error message. pc/MRP automatically re-creates the temporary DBF files it needs if they do not exist.

If the dbf file is your password data file, restore from a backup. Or, you can call Software Arts for an authorization code to re-create the file with one user MASTER, with a password of MASTER. If you choose to re-create the file, you will have to re-enter all of your user names, passwords, and module rights.

The database file has an invalid record count in the database header or has a corrupted data record. Call Software Arts, Inc. to have the support person transfer the data recovery utility to fix the database file and then re-index the database.

Note: pc/MRP includes auto-repair of simple table corruption caused by record count mismatch.

### NOTE: Software Arts, Inc. does NOT suggest you attempt this repair without Software Arts, Inc's help.

- 1. On the computer with the error message, you can determine the corrupt file by pressing **Ctrl-F12** when the error is on the screen. This opens a .txt file. Here search for the "**Currently Selected Table**" The .DBF file listed directly under this heading is the corrupt file.
- 2. Set the ADMIN LOCKOUT and wait for everyone to exit pc/MRP.
- 3. To backup the affected database files at the pc/MRP command line: As an example, enter 'copy file addrbook.\* to addrbook20160718.\*'
- 4. Exit pc/MRP.
- Transfer the self-executable file, "K:\Toolbox\Visual\Data Recovery\Installer App\pcMrpDRU\_1.2.exe" to the customer's pcmrpw directory. If you right-click on the pc/MRP shortcut and select Properties, you will see the location of pc/MRP.

- 6. Double-click on the **pcMrpDRU\_1.2.exe**. This will extract the needed files (9) into a newly created subdirectory named "Data Recovery Utility".
- 7. Using Windows Explorer, navigate to the "Data Recovery Utility" directory and run (double-click) on the program file "DataRecovery.EXE"
- 8. Follow the slideshow instructions in the MRP101 section of the pc/MRP's website at: <u>http://www.pcmrp.com/mrp101/filefixclickondatarecovery.htm</u> In the majority of cases, the file will be recovered after step 2 of the slide show, and steps 3-7 will be skipped.
- 9. When finished with the data recovery utility, log back into pc/MRP using the same computer & logon name you used to set the admin lockout in step #1.
- 10. **Re-index** the affected database by going to Modules, select the module e.g. Addresses, and then Index.
- 11. Test that the database is no longer corrupt by checking the data using the process that created the error.
- 12. Check with the user to determine if all the data is there or that they may have to re-enter the data.
- 13. Remove the Admin lockout you set in step #1.

### **17.5 Error Messages without Numbers**

**Note**: The Error.log and VFP9RERR.log files in the pc/MRP folder can be extremely valuable when trouble shooting errors. Both files can be opened using Notepad. The Error.log file contains error messages captured by pc/MRP. VFP9RERR.log contains operating system error messages captured by Visual FoxPro.

#### 17.5.1 Watcom WIN386 not running on a 386 DPI implementation error msg appears

Try starting Windows with WIN/D:X command instead of WIN. If that works modify the emm386 line in your config.sys file to read: DEVICE=C:\WINDOWS\EMM386 NOEMS I=E000-EFFF

#### 17.5.2 pc/MRP says Record does not exist

Item you are searching for has one or more blank characters. Scroll to the top of the screen to see if it is there. Once you have found it, correct the error by editing the item you are searching for; find where it should be and or what it should be and change it so there are no blank characters.

#### 17.5.3 pc/MRP says Can not save record, record has been edited by another

The pc/MRP dbf file has a numeric overflow in one of the fields. Use Option 42 in Configuration, Settings and Utilities to zero out the overflow. This is usually caused by a PO ration of 0 (Zero) that has been imported into the Inventory.

#### 17.5.4 Cannot edit a document.

- User selected View instead of Edit under Action.
- The Advanced Password module is activated and the user does not have edit rights to the module.

#### 17.5.5 Cannot delete a document.

- User selected View rather than Edit.
- The Advanced Password module is activated and the user does not have delete rights to the module.

#### 17.5.6 Highlighting a part in a BOM displays another partnumber.

The BOM has duplicate part numbers. Edit the BOM and change the item number of one of the effected parts.

#### 17.5.7 Address and PO logbook files keep asking if you wish to convert the files

When you get to the save window, select save as WRI files.

#### 17.5.8 Variable not found

If pc/MRP for Windows is closing the month and the variable not found is MDUMMY, the chart of accounts has a record in it with an illegal account type code. The chart of account record number will be displayed at the bottom of the screen. Edit the record and fill in the account type field with a legal account type code.

#### 17.5.9 Dialog box asks "Overwrite invalid foxuser file"

Answer Yes to this question as a new empty foxuser file will not hurt anything.

#### 17.5.10 Internal Inconsistency Error Message

- Video driver is incompatible with FoxPro for Windows, change to a standard VGA driver and see if that solves the problem.
- Reindex the database file that is being used when the error occurs.

#### 17.5.11 Stack Fault Error Message

This message can be caused by a broken index file. Re-index the database file that is being used when the error occurs.

#### 17.5.12 Macro Overflow.

Macro file has become corrupt or too long, delete the macro file "username.fky" or re-enter the macro you are running.

#### 17.5.13 Library file is invalid

Library file has become corrupt in memory, exit pc/MRP and restart your computer.

#### 17.5.14 Record has been edited by another.

- Somebody has edited and saved the record since the last time you opened the record for editing. Edit the record again.
- One of the fields has a numeric overflow (all stars in the field). Run Option 41 in the configuration settings and utilities menu to zero out the fields that have overflowed.

#### 17.5.15 Cost roll-up and exploded BOMs contain incorrect dollar amounts.

If you are using a language other than English, use note pad to add the line: Point = "." to the config.fpw file in the pcmrpw directory.

#### 17.5.16 MSG.DBF does not have an entry for <name of menu item>

pc/MRP's MSG.IDX file has become corrupt. Exit pc/MRP and use Windows Explorer to locate and delete the MSG.IDX file. Re-enter. pc/MRP will recreate the MSG.IDX file automatically.

#### 17.5.17 pc/MRP field contains nothing but asterisks or stars (numeric overflow).

Use Configuration, Settings and Utilities, Option 41. This program allows the user to select a DBF field and zero out the overflow. Call Software Arts for instructions on running this program. This can also be caused by not having a true default printer driver.

#### 17.5.18 When scrolling for something (Inventory or BOMs), pressing enter does not open the selected file.

The user FKY file has been corrupted. Find the user FKY file, their login name with an .FKY extension and delete this file. All macros and personal save settings will be deleted for this user.

#### 17.5.19 Insufficient memory when editing Address Book.

Go to the Configuration, Settings & Utilities Option 52 to edit every text files. If a message comes up indicating the file is too big to open in Notepad, that is the file causing the problem. Use Windows Explorer to rename the file to another file name and go back to Option 52 to recreate the file.

#### 17.5.20 Part number in a BOM is not Issued when Running the Stockroom Issue Function.

The partnumber in inventory is checked as being floor stock. Un-check the floor stock check box.

#### 17.5.21 When printing a BOM an incorrect part number displays or prints out in every BOM.

The BOMTEMP.DBF contains a record with this part number in it. Call Software Arts for instructions on how to empty the BOMTEMP.dbf file.

#### 17.5.22 Browser location changes for everybody when individual user changes his browser location.

Browser location is stored in local windows directory on workstation in a file named BROWSMRP.UMF. Network maybe setup such that server contains the windows directory. Mark the BROWSMRP.UMF file read only in the server's windows directory. You can change the browser used to open the module. You can also open the BROWSMRP.UMF file with notepad but do not change it.

#### 17.5.23 Cannot open or locate Visual FoxPro Library File

Restore VFP9R.DLL, VFP9T.DLL and or VFP9RENU.DLL from a backup copy if either of these files is missing.

#### 17.5.24 Version Mismatch

pc/MRP has detected a version type mismatch. This occurs if a manual update is downloaded from our website and applied to the wrong version of pc/MRP. Restore from a back-up or call Software Arts, Inc. Software Arts will use Notepad to edit the config.fpw file to match the original version of pc/MRP prior to running the manual update. Software Arts then will run a full update to the newer version. By modifying the config.fpw file the update will know what version it is updating from.

#### 17.5.25 Class not registered error message

- When pc/MRP needs to use a class library .DLL or .OCX file, the operating system will first look in the registry, if it finds an entry in the registry pointing to where the .DLL or .OCX file is located and that file does not exist, the operating system will throw an error message. If it does not find an entry in the registry, it will look in pc/MRP's home directory. If it does not find the .DLL or .OCX file there, it will look in the system folders. If it does not find it in the system folders, it will throw an error message.
- To fix the problem you could do the following. (1) Copy the missing file into the directory the registry indicates it should be in. (2) Copy the missing file into the System32 folder or the System folder (Win 98 and 98). (3) Open up Explorer, find the file, leave the Explorer window open, Click on the Start button, Select Run and register it by typing in REGSVR32 and drag and drop the file from explorer into the run command line one space after the word REGSVR32. Be aware, if you move this file, your computer may not be able to find it. If you are going to delete some of the registry entries, make a backup of the registry by selecting export and giving it a name to import it back in from if necessary.
- pc/MRP contains two files named 'SAOCX.EXE' & 'SAIBTLC.EXE' in the pcmrpw directory. Locating these files in Windows Explorer and double-clicking on them it will register all of the '.ocx' files required by pc/MRP. (You need to be the computer administrator.) (If not able to run the files on the server, copy them to the workstation's desktop, and try to run there.)
- Other cures might include disabling a virus checker that is not allowing un-registered DLLs to run or an operating system doing the same.

#### 17.5.26 Alias config.tmp is not found.

Select ignore, then Cancel. Go back into pc/MRP and the problem should be fixed.

#### 17.5.27 Cannot change quantities, costs, and locations when adding part numbers.

Change Option 62 to allow editing of these fields.

#### 17.5.28 Microsoft Visual FoxPro cannot load Resources.

- 1) re-boot the computer if this is the only computer affected.
- 2) delete foxuser.dbf & .fpt if they exist.
- 3) config.fpw should have a line: dataresources = off
- 4) Copy all DLL, OCX, FLL, and EXE files from a backup copy of pc/MRP containing the same version & revision number of pc/MRP into the pcmrpw directory, eg. "9.20B".

#### 17.5.29 The configuration table used to check configuration changes is no longer available.

- The table was closed by a sub-process during the repair of an invalid table structure. Any changes made to application data have not been saved.
- Click the OK button when you get this message and re-enter your changes (if any) into the config menu.

# 17.5.30 Indexing hangs during Option 27 or during a full update or you get an "Unable to access the data table" error message.

- pc/MRP was unable to obtain exclusive access to the named table. Get everybody off the table and try again or see error 1705 (Section 17.4.1705) for solutions if it is a phantom file lock.
- If pc/MRP hangs at a certain DBF file, it is possible that the next file in the reindex-list is the one that is damaged.

#### 17.5.31 Attempting to obtain Administrative Lockout will not allow cancel.

If pc/MRP was not successful in running a scheduled task, and that task needed an Administrative lockout, pc/MRP will continue to try and obtain an Administrative Lockout in order to run the task. Click Cancel. You can then re-evaluate the scheduler's re-try options and then remove the Administrative Lockout.

#### 17.5.32 Consolidated Infinite Bucket Report contains erroneous data.

Call Software Arts, Inc. to clean up the MRP2CONS.dbf file.

#### 17.5.33 An essential program file has generated an error API00??

A software error has occurred; call Software Arts.

#### 17.5.34 Invalid Seek Offset (without an 1103 error number)

- Network disconnect. Set your computer power save settings (disk and network card) sleep to NEVER.
- A general fault protection error may have occurred. Exit Windows, shut down the computer, restart the computer and pc/MRP.
- The computer logon may not have MODIFY rights to the pcmrpw directory.
- We push out the (m:/) mapped drive for MRP connectivity (amongst other mappings) on the network through a group policy object. Historically we have always used the "Replace" option on this as opposed to the "Update". It appears that when the clients periodically request a GPUPDATE from the server the "Replace" was causing the mapping to disconnect and then reconnect again .... Hence causing a network interruption which would throw the invalid seek offset error on pcMRP (and also closing file explorer windows associated with the mapped drive). This only seemed to happen with windows 10 systems, no issues were occurring on windows 7 systems and the group policy object had been in place for a long time. Edited the group policy update from "Replace" to "Update" and problem appears corrected. The explorer windows closing was the clue!
- An Invalid Seek Offset Error Message is a system error message and can not be trapped by pc/MRP's VFP Error Logs (Error.log and Vfp9Rerr.log). This is an error in RAM which could be caused by bad RAM, printer drivers, indexes, NIC card, Hard Disk (run scan disk), cable, switch, auto defrag, auto backup, power saving (NIC,HD) etc. The error will be trapped in the event history system logs and the program/application log may reveal activity leading up to the error. See IT101 on the pc/MRP website: <a href="http://www.pcmrp.com/it101/w7reliabilityselectcontrolpanel.htm">http://www.pcmrp.com/it101/w7reliabilityselectcontrolpanel.htm</a> for W7/2008 <a href="http://www.pcmrp.com/it101/xpreliabilityselectcontrolpanel.htm">http://www.pcmrp.com/it101/xpreliabilityselectcontrolpanel.htm</a> for XP/2003</a>

#### 17.5.35 Cannot import Excel 2007 files into pc/MRP

Running Office 2007 Excel on a Vista computer. Save the Excel files as 'Excel 5.0/95' workbooks and then it will import into pc/MRP. When you go to Properties of the 5.0/95 Excel file, it will say '97-2003 workbook' even though you saved it as a 95-97 workbook.

#### 17.5.36 Delayed Write Failed error message

Windows 2000 requires SP4, XP requires SP2.

#### **17.5.37 Reports Display zero totals**

It could be a numeric overflow problem. Use Option 41 in the Configuration, Settings & Utilities menu to repair the data in the database table. See Section 15.1.41.

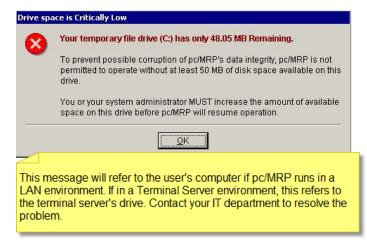
#### 17.5.38 On order quantity not adjusted correctly

A PO was deleted without first zeroing out the quantity ordered. Click on Display and Update next to the On order quantity. You can run the Audit Onorder Quantities from the Purchase module. You can set this up as a nightly task in Configuration, Scheduled Administrative Tasks.

#### 17.5.39 Entering a receiver does not adjust the inventory's onhand quantity correctly.

- The PO ratio for that part number was imported with a value of 0. If the issue unit is the same as the purchase unit change the PO ratio to 1.
- The quantity was increased in the wrong part number. The inventory index file is broken. Re-index the inventory file (partmast.dbf). You need to set an Admin Lock before reindexing.
- The PO has already received the full quantity on a prior receiver, and the user overrode the warning.
- Browse the Receive table to see the Orgareaqty for the part: the user might not be correct about what the onhand qty was before receiving.

#### 17.5.40 Drive space is Critically Low, insufficient hard disk space, has only 0 Bytes Remaining



Reboot the workstation, make sure the user has modify or higher sharing and security rights to the pcMRP folder. On the server, right click on the drive, select properties, and then quotas (CheckDiskSpace.prg)

#### 17.5.41 Indexing files is extremely slow

If you have a file named SAEIU.DLL in the PCMRPW directory rename it to SAEIU\_ORIG.DLL. This will allow pc/MRP to use VFP 9's indexing DLLs.

#### 17.5.42 File sadel.fll is invalid

That pc is missing MSVCP71.DLL. Call Software Arts, Inc and have them transfer MSVCP71.DLL from their developer directory to the PCMRP folder.

#### 17.5.43 File Access Denied or Error Reading File (also see the next section)

- Turn off Kaspersky antivirus program at server and workstations. If the problem goes away uninstall Kaspersky and install a different antivirus program, or exclude Kaspersky from checking the PCMRPW folder. This same error could be due to a virus checker other than Kaspersky. This error can be caused by a firewall/security change.
- If the file it is trying to run is in a user's temp directory (especially users Kim, Ron, Doug, Richard), make sure your computer and your network card is not powering down, or (if on a wireless connection) it is not becoming disconnected. As a last resort, change your network switch mode from static port trunking to LACP.
- If pc/MRP is installed on a Terminal Server, reboot the terminal server.
- Error reading file *<path>*\errwind.sct: This could be caused by an earlier network disconnect. Reboot.
- At the workstation switch the pc/MRP shortcut from a mapped drive to a UNC Drive (Network)
- On Windows 10 workstations and possibly group settings on the domain controller:
- Windows Settings->Security Settings->Local Policies/Security Options->Microsoft Network Client->Policy:
- Microsoft network client: Digitally sign communications (always) Disabled
- Microsoft network client: Digitally sign communications (if server agrees) Disabled
- Windows Settings->Security Settings->Local Policies/Security Options->Microsoft Network Server->Policy:
- Microsoft network server: Digitally sign communications (always) Disabled
- Microsoft network server: Digitally sign communications (if server agrees) Disabled

#### 17.5.44 Windows Exception Code Errors

#### Possible solutions:

**C000001D** can be caused if something did not install correctly. If you get this error when trying to print to PDF, then first reboot, then if that did not help, uninstall and reinstall the pc/MRP Internal Printer Driver. **C0000005** is indicative of a RAM problem, reboot PC, recursive BOM, see Memory Diagnostic Slide Show. For C0000005 also see Chapter 17.3.

**C0000006** is indicative of a network disconnect situation, check wireless signal, NIC card, hub and cables. **C0000006** can also be caused by a shortcut on the TS Screen referencing a mapped drive and not a real drive. **C0000020** delayed write, data made it to buffer but not hard disk, reboot workstation, replace NIC card(s). **80000002** when editing BOMs. In one case running the Data Recovery Utility on BOMs helped. **C0000094** RAM is corrupt. Reboot PC another less likely option Select Control Panel, System, Advanced Performance, Settings, Data Execution, Turn on DEP for all programs except those I have selected, Apply, OK, Reboot

#### 17.5.45 pc/MRP runs extremely slow and/or has frequent Data Corruption

This could be an SMB2 protocol problem. See IT101 slide show #27. http://www.pcmrp.com/it101/w7regeditstart.htm

#### 17.5.46 User settings are not saved

User settings (like the size of the windows) are not saved: The USERSETS table might be corrupted, or there is a phantom lock on it. Call Software Arts.

#### 17.5.47 "Allowed DO nesting or expression evaluation level exceeded"

If you receive this error message when generating an infinite bucket MRP, you have a BOM that is calling for itself (or one of its subassemblies is calling for itself). Set an admin lockout, backup the Partmast and BOM tables, then run 'Audit BOM', select 'Compile' and print the report to find any such BOMs.

#### 17.5.48 "auserrights.prg doesn't exist"

If you see this error message, this is probably not the first error message that was displayed. Try the same key strokes (you might need to start the Windows Task Manager and end the pc/MRP application task first). Then look for the first error message to better trouble shoot the problem.

#### 17.5.49 Copyfield or Import Inventory Counts gives errors or doesn't update one or more records

Look for partnumbers that have a space as the first character. Sort the source Excel data by part number. Look for duplicates where the second value would overwrite the first one.

#### 17.5.50 Error msg: Part is listed as an assembly, but is not found in the BOM table as an assy

If Audit Inventory and/or Generate an MRP state the above, but you confirm that the part does exist in the BOM table: Sort inventory by Part number and click Go Top. Look for any duplicate part numbers that are similar but start with a space. If there is such a part number and it is classified as an assy, that will cause the above error message.

#### **17.5.51 Process Interruption**

If you used Option 27 to reindex all database tables you might get the following message: "The configuration table used to track configuration changes is no longer available. It was closed by a sub-process during the repair of an invalid table structure. Any changes made to application settings have NOT been saved."

This is just a message to inform you that pc/MRP is unable to display your configuration settings at this point. This happens when during the course of re-indexing pc/MRP had to repair a table.

Simply click Ok. You successfully re-indexed all database tables. If you edited any configuration settings in this last session working in Settings and Utilities, your changes have not been saved.

#### 17.5.52 Error.dbf is not a table

If you get this message right after starting up pc/MRP, the program is trying to display an error message but cannot use the table that lists the error numbers and error descriptions (error.dbf). Rename the error.dbf file to error\_bad.dbf and the error.fpt file to error\_bad.fpt. Then try to start pc/MRP again. Error.dbf has automatically been recreated, and you might see the real error message now. If this is error 15: not a table, for another database file (e.g. wp.dbf) you might have a virus that is destroying your tables. Turn off all computers and disconnect from the network. Run virus scans. Important: keep your last good backup away from the system to avoid infecting the backup. Call Software Arts for additional help.

#### 17.5.53 Stockroom I type issue or Check Availability Report lists a subassembly AND the part it calls for

In rare circumstances the report would show a subassembly AND the part it calls for, both being issued. This would happen if the next subassembly (when printing an exploded BOM) calls for the same part. The first subassembly had sufficient quantity on hand. That's why we see it being issued. The second subassembly did not have any quantity on hand, so pc/MRP issued parts instead. When looking at the report, someone might get to the

conclusion (erroneously) that the part was issued for the first assembly, and think that extra material has been issued.

#### 17.5.54The Action.dbf file is in use

The MRP can not be generated until all other users exit the Infinite Bucket Module.

Other possible causes (if you verified that no one is using the IB module and still get this error message): The Action.dbf table is damaged. Simply delete both Action.dbf and Action.cdx (if existing). If you can not delete

the file, it could indicate a phantom file lock; call your IT department or Software Arts. The Action.dbf table exists, but Action.cdx is missing or damaged. Simply delete both Action.dbf and Action.cdx (if existing). If you can not delete the file, it could indicate a phantom file lock; call your IT department or Software Arts.

#### 17.5.55 Using ODBC queries, you get an ODBC Visual FoxPro Driver Error

Example: Microsoft ODBC Visual FoxPro Driver Error: Column 3 (cost) If the column that causes the error is a numeric field, the error might be caused by a numeric overflow. Use pc/MRP Configuration, Option 41 to check for a numeric overflow.

#### 17.5.56 Edit function (for any module) just hangs

If the View mode works, it is possible that the Trail.dbf file is corrupt. Run Option 27 to verify.

#### 17.5.57 The currency XYZ for Business Unit ABC is invalid

CurHist.dbf already has currency records for the period you are trying to close and none of those records contain the currency listed for that business unit. To fix, at the command line Enter "use CurHist excl", browse, mark the records for that period for deletion, pack the table and run the Corporate Report again.

#### 17.5.58 pc/MRP asks you to select a database file when you edit an address

See section 17.4.1 and follow the instructions regarding your virus checker configuration.

#### 17.5.59 Windows can not access pcmrpw.exe

pc/MRP's sharing and security rights have not completely registered on the server. Wait an hour then try again.

#### 17.5.60 Visual FoxPro has stopped working , pc/MRP main application has stopped working

- This can be a network disconnect.
- Close pc/MRP. Select Control Panel, System, Advanced, Performance Settings, Data Execution Prevention. Turn ADEP on for all programs and services except those I have selected. Click Apply, Ok, Ok. Then test.
- Reboot your PC (You should turn off your computer every night to refresh your RAM)

# 17.5.61 Running price per quantity brakes for a part number displays the price per qty brakes but does not load them into that part number. Instead it zeroes out the price per quantity brakes for that part number and loads those price per quantity brakes into the first part number associated with that vendor.

This was a bug in versions 9.00Z and 9.06C. To fix the problem, auto-update to a higher revision. Call Software Arts so that they can locate the first part number for that vendor in partvend.dbf and reload the correct prices.

#### 17.5.62 Entering a PO or PR brings up the first address based on address ID.

Click the Option button, reset the Auto Lookup Option from <br/>blank> to Whole Database.

#### 17.5.63 Cannot enter a new part number

This might be caused by a part number starting with ZZZ. Renumber any such part numbers to Z0001, Z0002, or similar.

#### 

Check the date and time of the PCMRPW.EXE file. Compare it to what it should be based on CONFIG.FPW. If the date and time are wrong, replace the file from another copy of pc/MRP.

#### 17.5.63 Your report parameters did not produce any results

If this is the stockroom's Issue to Manufacturing Report, all of the parts in the BOM are classified as Floor Stock or Labor.

#### 17.5.64 A Sales Order or PO is duplicated by another user with another document number

The other user was attempting to duplicate a sales or purchase order but accidently selected the last sales or purchase order. The Duplicate function creates the duplicate and then opens it up for editing even if the user selects Cancel, the duplicate was created.

#### 17.5.65 Authentication error has occurred. The function request is not supported.

On W7 and Server2008 Use Control Panel, "Add or Remove Programs" OR "Program and Features", to remove Security Update kB4103718 and reboot the computer. https://www.youtube.com/watch?y=HNR7lt7z42E

Alternatively, install the drivers for the network card by right-clicking the device and choosing **Update**. Then choose **Search automatically for updated driver software** or **Browse my computer for driver software**. <u>https://support.microsoft.com/en-us/help/4103718/windows-7-update-kb4103718</u>

#### 17.5.66 pc/MRP can not save the Excel File.

Excel Trust Center File Block Setting is blocking Excel 97 2003 Workbooks and Templates. See 17.11.

#### 17.5.67 Can not create pcmrp.exe file.

See Section 17.7.61

#### 17.5.68 Can not activate pc/MRP's Technical Support Contract

If you are entering a support contract code activation number and you get a "**The activation code that you entered is invalid**." error message, and the new Expiration Date is in 2021, and your phone number matches our phone number for your company, and you are on version 9.40E or lower, Call Software Arts and allow them to do a full update to version 9.40F or 9.41C which validates dates to 2050.

#### 17.5.69 MrpError.dbf file is in use

Set an Admin Lockout. Once everybody is out of pc/MRP, use Windows Explorer to delete the mrperror.dbf and mrperror.cdx files in the pcmrp folder. If you cannot delete the files, get out of pc/MRP, go to the Server's Control Panel, Admin Tools, Computer Management, and close all open sessions in the pcmrp folder. If that doesn't fix the problem, reboot the server. Select Options, Infinite Bucket and Generate Action Items

#### 17.5.70 Your import file contains one or more empty BOM Numbers

- Your import file does contain empty BOM Numbers,
- Your imort file has carriage returns or line feeds in the middle of a text or memo field. Use Notepad or Notepad ++ to view the CSV file, turn off word wrap, turn on Show Characters and delete the carriage returns and line feeds in the middle of those fields.

## 17.5.71 A blank index screen appears whenever you click on a menu iteem Entering a receiver does not adjust the inventory's onhand quantity correctly.

• If possible set an Admin Lockout, get out of pc/MRP, use Windows File Explorer to Rename formsets.dbf to formsets.bad, re-start pc/MRP, and remove the Admin Lockout.

## 17.5.72 Your System fails to create a CDX file when you re-index but you can create the CDX file at the command line.

• Use Windows File Explorer to rename the SAEIU.DLL file to SAEIU\_OLD.DLL and re-index the normal way.

#### 17.5.72 pc/MRP opens but does not display a menu

• Copy in msg.dbf from a recent backup from the same version. If that does not work copy in config.mem from a recent backup from the same version. If that does work not use Windows File Explorer to repair trail.dbf

#### 17.5.72 Cannot edit specific part number(s) in the Inventory Module, pc/MRP just hangs at that record

- The part contains a link to an image file that no longer exists or has been moved. Call Software Arts. Software Arts can use the command window to remove the link or use code such as shown below to transfer the location of the links in mass.
- Use partmast
- Copy to partmastYYYMMDD
- replace all Image\_file with STRTRAN(Image\_file, "\\its-fs2\", "\\sv-nas\")

## **17.6 Print or Display Problems**

#### 17.6.1 Reports do not print out or display incorrectly

- You have a label printer set as default printer.
- You do not have the correct printer driver installed as your default printer. Install the most recent printer driver from Microsoft and/or the manufacturer for your printer using Control Panel, Printer Screen.
- You have an Apple Post Script laser writer installed as your default printer. Select a printer that can handle Windows True Type Fonts or modify the setup on your printer to handle True Type instead of Post Script.
- You are using the printer setup routine to change the printer orientation format in a manner that the report was not designed to print out in. Wide carriage reports, "W", were designed to print out on a wide carriage dot matrix printer in portrait orientation using fan fold 14x11 paper. Narrow carriage reports "P" were designed to print out in on a laser, dot matrix, or inkjet printer using 8-1/2x11 paper in landscape orientation. pc/MRP's reports will default to portrait if you select "W" and landscape if you select "P". If you change the orientation with the printer setup screen when running the report the printout may be cut off. If you want to get a wide carriage printout with a laser printer, read the instructions below.
- Your printer cannot print Courier New True Type Fonts (make sure you have Courier New True Type Fonts installed). Set the printer settings to True Type as Graphics. Try printing a Write file with Courier New True-Type Fonts. If it cannot, call PC manufacturer. With certain versions of Windows, you must select the Apply instead of the OK button when changing True Types to graphics.
- pc/MRP prints and displays little square boxes in place of normal characters because of conflicting fonts such as those used by Corel Draw. Make sure the PC has courier new font installed. If that does not correct the problem delete the conflicting fonts (Corel Draw).
- In some cases with certain HP printers you can install smart fonts with the HP printer driver. Select Printers, select the HP printer driver, and click on the "Install Smart Fonts" button.
- The hard disk is full not allowing print manager to place the file on the hard disk. Go to program manager, select main, select print, and uncheck print manager if it is checked and try to print out again. If you are able to print out without print manager on you should clean out some of the files on your hard disk to allow print manager to work.
- The network print buffer timeout time is not set correctly. Set the print buffer time out time to 10 to 30 seconds. On some networks setting this value to zero will actually set the time out time to infinite time out.
- Some HP printers include printer monitoring software that remains active at all times, informing you of low paper, no toner, etc. In some cases this software must set such that is does not display (icon is visible) at all times as it will not allow a time out page eject signal.

- If the form totals are 0 while detail values are other than zero, you might have a numeric overflow, maybe in the average cost of a part. Use **Option 41** in the Configuration, Settings & Utilities menu.
- If the left portion of the printout is missing and you have a postscript printer, change the margin to none.
- Make sure your print spooler is turned on. (see Section 17.4.1915)
- Turn off the printer, wait 60 seconds, turn the printer back on and reprint the form or report.
- Item Number is not in a printable range of 0001-9999.
- Document Number contains a lower case alpha characters (upper case alpha characters are OK) Edit Document Number OR upgrade to 9.30L, 9.36E and higher.
- Call Software Arts and have them send you a fresh copy of the report or form's .frx &.frt files.
- Custom reports that used to work in an earlier version, now display \*\*\*\*\* in certain fields. Make sure that the data type (Character, Numeric or Date) is correct for the field displayed.

#### 17.6.2 Windows version of pc/MRP appears in a small window in upper left portion of screen

pc/MRP is designed to completely fill an SVGA screen (800x600). Running pc/MRP in higher resolution modes will allow pc/MRP to appear in a smaller screen in the upper left portion of the screen. Change your display setting to a smaller resolution. If you are not sure how to do this, contact your IT personnel.

#### 17.6.3 Cursor jumps around when scrolling a data base file

Re-index the data base file that is being scrolled. You need to set an administrative lockout first.

#### 17.6.4 pc/MRP only displays the top menu until you click on a top menu item

Open up the config.fpw file with Notepad and remove the line BITMAP = OFF.

#### **17.6.5 HP DeskJet printer does not print out multiple copies**

You are not using an up to date HP DeskJet print driver. Call HP (not Microsoft) and order the latest HP DeskJet print driver version 6.1 or higher.

#### 17.6.6 Print outs are too slow on a dot matrix printer

When you get to the print window, select a lower resolution or draft printout.

If you own a laser printer you can print out the wide carriage reports by pre loading the laser printer with legal size paper. When you get to the print window, select landscape and legal size paper. If the laser printer does not have a legal size tray but can accept legal size paper you must configure it to accept legal size paper by following the directions listed below(for IIP, IIIP):

Click the On Line Key to take the printer off line Click the Menu Key (should display MP SIZE LETTER) Click the + Key to get LEGAL Click the Enter Key Click the Menu Key until you come to JOB SIZE Click the + Key until you get to LEGAL Click the Enter Key Click the Menu Key until the display reads READY LEGAL To reset the printer back to letter size as follows: Click the On Line Key to take the printer off line Click the Menu Key (should display MP SIZE LEGAL) Click the + Key to get LETTER Click the Enter Key Click the Menu Key until you come to JOB SIZE Click the + Key until you get to LETTER Click the Enter Key Click the Menu Key until the display reads READY LETTER

#### 17.6.7 pc/MRP locks up when trying to print/display a form.

- Check the related database file for blank records. Mark the blank records for deletion and remove them.
- Enter another record, print it out, then print out the previous record that would not print out.
- Clear the print queue and reboot the computer

#### 17.6.8 Barcode printout cannot be read by a bar code wand

The bar code font should be 26 points or higher and should not be printed out in bold. The 3 of 9 font requires that the variable be entered as (example is for the variable PARTNO):

"\*" + UPPER(ALLTRIM(PARTNO)) + "\*" or BAR39STR(PARTNO)

#### 17.6.9 Totals do not print out on the bottom of forms (POs, Invoices, etc.)

Recreate the boilerplate for those forms using **Option 22** in the configuration menu.

#### 17.6.10 Numeric values do not print out on form

If you have leading blank spaces in the invoice number, edit and fill the blank spaces with leading 0s. Or call Software Arts to mass-edit your document numbers.

#### 17.6.11 Form contains fields from another record

Remove the database reference for the field. For example purchase.modelno should be just modelno.

#### 17.6.12 Line items no longer are in order or exist after entering a PO or Sales Order

Create a pcmrpw directory in a workstation, copy all of the files from the server's pcmrpw directory into the workstation's pcmrpw directory. If the workstation can create multiple line item POs and Sales Orders, the network must be carefully examined.

#### 17.6.13 Printouts and editing BOMs take a long time.

Eliminate other programs running in the background such as screen savers etc.

#### 17.6.14 Buttons are missing from screen.

Foxfont.fon is missing, corrupt, or not marked read only. Locate the foxfont.fon make sure it is attributed read only. If it is missing restore this file from a backup. If after locating and attributing the file read only, pc/MRP still does not work, restore foxfont.fon from a backup.

#### 17.6.15 BOM report displays more parts than are in the BOM.

Some BOM and partnumbers are longer than the partnumber length set in the Settings and Utilities. Change the partnumber length in the Settings and Utilities to be large enough to include the longest partnumber.

#### 17.6.16 BarCode fonts do not print out.

Bar Code Fonts are not installed, see Section 16.4.2.

#### 17.6.17 Displaying or printing a report, form, or, label gives you an "Alias not found" error message.

The report or form contains a reference to a file (.bmp or .dbf) that does not exist. This error can occur when pc/MRP interprets file names because the 16-bit version only accepted 8 character names while the 32-bit version accepts larger names. To fix this, open the report form that has this error using **Option 24** in the settings and utilities. Then, remap the image or table to the form. This will save the full true mapping.

#### 17.6.18 Reports print with large fonts.

Do not print from the display window tool bar icon. Instead, select print from the menu bar. You may need to close the display window to see the print dialog window.

#### 17.6.19 Running 16-bit report with 32-bit version of pc/MRP.

See Section 17.4.50 Report file invalid.

#### 17.6.20 Selecting display or print just doesn't do anything.

If you find that some Sales Order (or PO, etc) records will not display and/or print, while other records of the same table display/print fine, the reason could be that the bad record's line item number is blank or not numeric, or has less than 4 numbers.

#### 17.6.21 Print to Excel loses report columns that were availabble on the displayed/PDF/printed reports.

This is not an error. Other than the primary database table, linked database tables used in reports are not exported to Excel, DBF, or TXT files.

#### 17.6.22 Printer icon in Print Display toolbar does not print to or sends the report to the wrong printer.

Click on "Printer" in the menu instead. This will allow you to select the printer to send the print job to. The printer icon in the toolbar is designed to send the Form (report) to the default printer. When a user creates a custom form, that form points to the default printer for that user. The reference to his printer can be removed by entering '**FRXHPFIX**()' at pc/MRP's command line and selecting the form he wishes to remove the printer settings from. If you wish to remove printer settings for all your forms, run FRXHPFIX\_ALL() from the pc/MRP command line. Please contact Software Arts, Inc. for instructions on accessing pc/MRP's command line.

#### 17.6.23 PDF file doesn't open correctly for user receiving the file.

See Section 17.11.2

#### 17.6.24 Error Loading Printer Driver OR "Printer not activated, error code -30"

Try to reboot first. Uninstalling and reinstalling the pc/MRP print driver might help. Also see sections 17.11.2 and 17.11.6.

#### 17.6.25 Printing reports shows the red Ctrl-F12 information in the upper right corner.

Do not print from the display window tool bar icon. Instead, select print from the menu bar.

#### 17.6.26 Displaying or printing a report, form or label pops up a window looking for a picture file.

The report/form/label contains a reference to a file picture file (.BMP, .JPG, .GIF, etc) that does not exist at the referenced location. To fix this, first copy the image (usually the company logo) directly into the PCMRPW folder. Then open the report/form/label that has this error using **Option 24** in Settings and Utilities. The editor will try to open an image file, select the logo you just copied into the PCMRPW folder. You can save the file; the path to the image is corrected now.

#### 17.6.27 No longer prints to PDF or prints to the wrong printer.

If you are on a Windows 10 workstation, select Start, Settings, Devices and scroll down and turn off Let Windows manage my default printer.

#### 17.6.28 Zebra Printer not printing individual labels

Set the Zebra printer as your default printer. Select Properties and set the label size. Use Option 24 to open the label. Make sure the label size matches the Zebra label size. Save the printer Environment. Make sure the label prints out OK. Set the default printer to a standard printer.

#### 17.6.29 Label or Form does not print out correctly

Replace the .lbx, .lbt or the .frx, .frt files from a backup copy.

#### 17.6.30 Ole error 0X80080005 Server execution failed

You may not have printing rights with your Windows Log in. Try printing out with a different user account. Try running pc/MRP as Administrator

## **17.7 Start-up and Update Problems**

#### 17.7.1 pc/MRP having trouble starting up and or installing

- The computer you are trying to install pc/MRP has a virus. One customer was getting an error msg VER.DL\_ not found. Running a directory on disk one after an installation had been attempted revealed a new file with the letters IBM in the new file's name. The latest version of McAfee (408-988-3832) anti virus software was used to locate and clean out the virus called ANTIEXE.
- *Config.mem* file has an invalid memory variable in it. Run: *clrconfg.exe*, which is found in your pcmrpw folder.
- If you are trying to run pc/MRP from an internet download and it asks for disk two, files are missing. Download pc/MRP again.
- If your anti-virus programming is crashing pc/MRP. Disable your anti-virus program or disable the virus check when "running" a program. Kaspersky is known to cause pc/MRP problems.
- Cannot create workspace. Change user rights to allow the creation of files.
- If the shortcut points to an IP address, change it to go through a mapped drive or UNC address.
- Reboot the workstation.
- Trouble updating, could be invalid image file names that no longer exist in their original location

#### 17.7.2 pc/MRP update fails to go through

- The display driver is incompatible with pc/MRP. Switch to a Windows Standard display driver or update from a different computer.
- One of the database files is corrupt. Start the backup copy, reindex all to find the corrupt file. OR, find the most recently modified file in the pcmrpw folder. pcMRPUpd.prg contains the order the files are updated in. Search for UpdatePrimary. Repair the broken database file. Restore from the backup (delete the contents of the production copy folder and copy in the contents of the backup folder, in order to keep the production folder's sharing and security settings). Update again.

#### 17.7.3 "User does not have modify rights" message appears

Reinstall display driver or install standard display driver.

#### 17.7.4 "FOXTOOLS.FLL DOES NOT EXIST" error message appears

- Recreate shortcut.
- Make sure pc/MRP is being run from a mapped drive and not through network neighborhood.

#### 17.7.5 Error 1705 message appears

• You do not have full access rights to the pc/MRP directory or there is another copy of pc/MRP open. At the user's command line, enter "modi file revupdate.log" to view the name of the file causing the problem.

#### 17.7.6 "Microsoft Product in Use by Another" error appears

• Workstation has not been mapped to the server.

#### 17.7.7 "Unable to find the remote location" error appears.

• The *remote.mem* file containing the path to the server is invalid or non-executable. Delete the *remote.mem* file in the pcmrpw directory.

#### 17.7.8 "Can not locate support library" error appears.

- Recreate shortcut.
- The foxtools.fll file has been attributed as a read-only file. Using Windows Explorer, right click the foxtools.fll file, and uncheck the read-only box.

#### **17.7.9 Invalid library file**

• Close all programs and reboot the computer displaying this message.

#### 17.7.10 "The file containing the user rights is not present. Should the file be recreated?" error message appears

• The password database file has been deleted. Call Software Arts for the password authorization code number. The password database will be recreated with a single Master/Master entry. Names and passwords must be reentered into pc/MRP's password module. Or, recover the database file from a backup.

#### 17.7.11 pc/MRP's opening screen displays a different version number than pc/MRP's "About pc/MRP" screen

• Config.fpw file is missing or corrupt (contains version number). Update will not go through. Call Software Arts to receive a config.fpw file that matches your original version and revision number.

#### 17.7.12 "Version Mismatch" error message appears.

• You have installed a manual update of a newer version over an older version of pc/MRP. Call Software Arts. Software Arts will examine the config.fpw file and send your company a full update that matches the config.fpw file.

#### 17.7.13 "Enter the password recreation authorization code" error message appears

• pc/MRP's advanced password database file has been deleted. Restore the file from a backup copy of your pcmrp directory or call Software Arts for the Password Recreation Authorization Code. The authorization code is based on the user's telephone number. Call Software Arts for the Password Recreation Authorization Code (will be displayed after the words "WP.DBF Recreation"). If the Password Recreation Authorization Code is used, the password database file will be recreated with a single "Master"/"Master" administrator entry in it. All the user passwords and rights will have to be re-entered.

#### 17.7.14 User has forgotten his password

- Ask the pc/MRP administrator to get or change your password if you have the Optional Password Module.
- If the user does not have the advanced password program. Press Control-F12 at the Incorrect Password window. A window will appear that requires an authorization code. The authorization code is based on the user's telephone number. Call Software Arts for the Password Recreation Authorization Code (will be displayed after the words "Show Password").

#### 17.7.15 Error Rendering Drive K

• If drive K is your CD drive, put any CD into drive K or assign your CD drive another drive letter.

#### 17.7.16 "Install Disk 2" message appears.

• The internet download is not complete. Try to download pc/MRP again.

#### 17.7.17 "Error Occurred when attempting to connect to HTML driver" error message appears.

• pc/MRP failed to activate an HTML class. This class allows the user to generate an HTML form instead of a printed form. The network administrator might have locked out the user's right to install a print driver. If you do not need to generate HTML files, you can turn off this option in "Configuration", "Settings and Utilities", **Option 19**.

#### 17.7.18 "Visual FoxPro can not Create Program Work Space Temp File" error message appears.

• User has read only rights, or the PC's temp folder does not exist. To find your computer's Temp folder select, Control Panel, System, and Advanced or Environment. If the displayed temp folder does not exist, create it. If it does exist, make sure it is not marked as a system or hidden folder. You can remove the system attribute using Windows Explorer.

#### 17.7.19 "Invalid Resource File" error message.

- User does not have 'Modify Rights' for the foxuser.dbf file in the pcmrpw directory on the server's hard drive.
- SULF.DBF file may be attributed as READ ONLY.

#### 17.7.20 pc/MRP tries to start then disappears and may try to re-start many times.

• Your computer may not have FoxFont installed or your computer may be configured to use only True Type fonts. First ensure that FoxFont is installed (foxfont.fon is in the Fonts directory), then under the menu for Tools, Folder Options, True Type Fonts, make sure the checkbox for "Show only True Type fonts..." is NOT checked.

- Desktop shortcut properties' Shortcut tab for "Target:" must point to pcmrpw.exe, not pcmrp.exe. For example: G:\pcmrp\pcmrpw.exe (note the 'w' in the filename)
- Desktop shortcut properties' Shortcut tab for "Start In:" must point to the location where pcmrpw.exe resides. For example: G:\pcmrpw.
- Reboot workstation.
- Download a copy of pc/MRP to the workstation. If that runs, it may be a network 'rights' issue.

#### 17.7.21 MSVBVM60.dll is missing.

- Use Window's Explorer to locate the MSVBVM60.DLL file. If you can not locate this file you can download it from our website; click on Technical Support and Support Files. Copy and paste this file into the C:\WINDOWS\SYSTEM32 folder.
- Leave this window open.
- Click on Start, Run, type in regsvr32
- Drag & drop the file MSVBVM60.DLL after the word regsvr32.
- Press OK. A response will come back saying the DLL was registered successfully.

#### 17.7.22 You get a Fatal error 171 while attempting to report error 171

• You have a language other than English (United States)-US installed on your computer. Select Start, Control Panel, Regional & Language Options, Select the Language tab, Details, and make sure your default language is English(United States)-US. In one case the user's computer was set to Hebrew and they could make that work with pc/MRP by installing and older (2003 or 2007) version of Microsoft Office in addition to their 2016 Microsoft Office package.

# 17.7.24 You get a message similar to: "Undergoing maintenance" or "Undergoing maintanance" when you attempt to login to pc/MRP.

- An administrative lockout is set and can only be removed by the user and computer that set the lock.
- If you confirmed that the administrative lockout is not intentionally set, use Windows Explorer to delete the file "MRPBUSY.FLG" from the pcmrpw directory.

#### 17.7.25 Everyone logging in gets an "Incorrect Password" error message.

• One or more of the work station PCs are using a code page other than English (1252) or one or more of the work stations are not using English-United States as their Regional Setting. Change the Regional Settings to English by selecting Control Panel, Regional Settings, Advanced and select English-United States from the Regional Settings drop down list box.

#### 17.7.26 You get a message "Variable ByPWUser can not be found"

• Entering an incorrect password and leaving the login screen open, or a phantom file lock can result in simultaneous re-indexing of the WP.CDX. This in turn can cause the CDX file to become malformed (missing its index tags). When you get the "Incorrect Password" error message, press Control I to force a re-index of the WP.DBF field

#### 17.7.28 You get a message "Variable MRPUser" not found.

• User may have installed a new demo copy of pc/MRP into an older version of pc/MRP. Restore the pcmrpw directory from a backup of pc/MRP.

#### 17.7.29 pc/MRP's start up window does not open in the maximized mode

• pc/MRP's Start up window is not set to open in the maximized mode. However, you can force this mode by using Notepad to create a file named PCMRPSCR.MAX in the pcmrpw directory.

#### 17.7.30 You get a message: 'Startkey.prg not found.'

• You have a corrupt pcmrp.exe file in memory or on the disk. Re-boot the PC and try to start pc/MRP again. If this does not work: Restore the pcmrp.exe file from a backup directory of the same revision, or manually update to the latest revision from the pc/MRP website; must be the same major version number. This might solve the problem even if it seems that the pcmrp.exe size and date are right. OR: You are running pc/MRP offline. Right-click on the monitor icon in the system tray on the right. Select 'Offline Status', Check the work Online without synchronization. On Windows 10 go to Control Panel, select Sync Center, select Manage, and select Disable. NEVER WORK OFFLINE WITH pc/MRP!

#### 17.7.31 Updating pc/MRP errors out when populating Closedat with default data

• Restore from a backup and delete a file named LASTCLOS.MEM in the pcmrpw directory before applying the update again.

#### 17.7.32 Updating pc/MRP errors out when Spawning QuickBook files

• Restore from a backup and double-check that a file named CLRCONFIG.EXE is in the pcmrpw directory before updating again.

#### 17.7.33 You get a syntax error message when you start pc/MRP

- You have corrupt .dll files in memory. Re-boot your local computer and try again.
- You have corrupt .dll files on your server. Copy over all the .dll files from a current pc/MRP backup. (Must be the same main version of pc/MRP; e.g. from 9.00 to 9.00)

# 17.7.34 You get an Unable to load the "pc/MRP Internal Printer v4.5" or PDF printer driver installation failed when starting pc/MRP

• See Section 17.11.1 & 2

#### 17.7.35 Download and Install a New Revision Progress Bar freezes when it hits 100%

- Your computer is having trouble with the FTP Protocol. Call Software Arts and have them send you a full update for that version.
- As a last resort, try removing all print drivers, run pc/MRP, reinstall all print drivers.

#### 17.7.36 Max number of users reached

- You will have to order more seats for more users to access pc/MRP.
- Ask some users to logout of some of their sessions of pc/MRP if they have more than one running.
- Make sure that users logout of pc/MRP when they are finished so others can login to pc/MRP.
- A user may have turned off his computer without logging off or his computer crashed. Either of these actions may corrupt or lock the SULF.DBF table in the pcmrpw directory.
- Turn on the Administrative Lockout and force all users logout of pc/MRP
- Call Software Arts to unlock (see Section 17.4.1705) and delete the sulf.dbf table. This will allow the sulf.dbf table to be re-created the next time pc/MRP is run.

#### 17.7.37 You get a "VFP9.dll is invalid or damaged" when starting pc/MRP

• pc/MRP is compiled using VFP9 and requires the GDIPLUS.dll file. Make sure that this file is in the production pcmrpw directory.

# 17.7.38 pc/MRP displays a "The pc/MRP application is currently having the index files for all tables rebuilt by another user"

• Someone is performing an update; do nothing and try again later. If you confirmed that this is not the case: Someone quit while pc/MRP was re-indexing the files after an update. Use Windows Explorer to delete the file "UPDREINDEX2.flg" from the production pcmrpw directory.

#### 17.7.39 Runtime Error 62 input path EOF()

- Use Windows Explorer to delete the file "MRPBUSY.flg" from the pcmrpw directory.
- Replace pcmrpw.exe and pcmrp.exe. If that does not help bypass the pcmrpw.exe file by changing the shortcut target to c:\pcmrpw\pcmrp.exe StartKey (uppercase S and K).

# 17.7.40 Error Message "pc/MRP is waiting for the ActiveX controls needed for use on numerous application forms to be installed. Please continue to wait until component installation is complete."

- Windows7 and Vista computers require an installer file, SAOCX.EXE and SAIBTL.EXE (Infinite Bucket Timeline reports).
- pc/MRP is trying to install MSCOMCT2.OCX (Date Picker) and MSCOMCTL.OCX (ListView). Check and see if the date picker was installed by selecting Modules, Accounting, Pay Bills, Remittance, Date Range. If Date Range displays, the Date Picker does not need to be registered but MSCOMCTL.OCX does. Go to pc/MRP's command line and enter: registerocx() and select the ocx file to be registered.
- If that does not work go to Windows Explorer, locate the pcmrp directory and double click on "SAOCX.EXE" or SAIBTL.EXE to run it directly. If not available, call Software Arts for the file. (These files are already installed in the pcmrpw directory)

#### 17.7.41 Library file fllintf450.fll is invalid

- Ensure that you have administrative privileges for your login. If your login does not have administrative privileges and you cannot login as the computer administrator, you need to inform your IT department that you need this capability or they need to login for you.
- Open the pcMRP Internal Printer listed in the Printers and Scanners System Settings. Make sure there is not a print job in the que. Remove the pc/MRP Print Driver. Reboot the workstation. Run pc/MRP as Administrator. pc/MRP will re-install its print driver. If needed, you can now exit pc/MRP and re-login to your computer as normal without administrative privileges.
- Or re-install the fllintf450.fll from the nightly backup.
- Or first update to the latest pc/MRP version. Go to each computer's Control Panel, select Printers, and delete the pc/MRP Internal Printer Driver. Then start pc/MRP on each workstation to load the new printer driver.
- Copy in a new pcmrp.exe file.

#### 17.7.42 pc/MRP takes a long time to start. Numerous file access error and file corruption.

• There is a bad pc or network card in a workstation on the network. Disconnect that computer from the hub. This computer can be identified from the server as it will have a phantom lock on one or more files under Computer Management, System Tools, Shared Folders, Open Files.

#### 17.7.43 Run-time error '53' File not Found.

• The pcmrp.exe file may be missing. Restore from a backup with the same version and revision (check config.fpw with Notepad) or call Software Arts.

#### 17.7.44 Not enough room to install update.

- pc/MRP checks to ensure that there is enough disk space to perform an update or upgrade. Contact your IT department or Software Arts, Inc. for help.
- The work station doesn't have the rights to install a program on the server. Possible solutions are:
  - Use UNC mapping.
  - Instead of copy-paste, browse for the pcmrpw folder
  - Run the update from the server.

#### 17.7.45 Download and install a new revision fails

• Make sure HTTP port 80 and FTP port 21 are open on the router and the host computer's firewall is open.

#### 17.7.46 pc/MRP hangs when trying to enter a new partnumber.

• The user has set his default product code and suffix lengths via **Options 29, 29, & 48**, and the resulting number for pc/MRP to auto-increment is very small. Example: (leaves only 1 digit to auto-increment): Option 28 is set to 12, Option 29 is set to 6, Option 48 is set to 5.

#### 17.7.47 API library not found.

- Get the CDINTF250.dll, FLLINTF250.dll, SADEL.fll and FLLINTF450.dll files (and possibly all .fll files) from the same version of pc/MRP located in the K:\ztemp directory and transfer them to their pcmrpw folder.
- Remove the older PDF print driver (select Control Panel, Devices and Printers, delete the old pc/MRP printer driver) and reboot the computer, then start pc/MRP and it will automatically install the newer PDF print driver. If you have a W7 workstation, start pc/MRP by right clicking on the pc/MRP shortcut and select Run as Administrator. (This could also happen if you have an old version of pc/MRP and you just downloaded a trial copy of the current version. It is OK to remove the old printer driver; the new printer driver <u>is</u> compatible with your old pc/MRP copy.)
- Check the shortcut: it should have "Target" and "Start in" filled out.

#### 17.7.48 Run-time error '53': File not found

• The pc/MRP.exe file might be missing. Call Software Arts for a replacement. You can also replace it from a backup copy (not recommended), but make sure you are using the exact same <u>version and revision</u> of the file. Otherwise you would end up with a version mismatch.

#### 17.7.49 pc/MRP will not update

- You are trying to install over an older version.
- User has modified the Title in his Config.fpw file. For example the Title should contain the line e.g. TITLE = pc/MRP for Windows – Version 9.10M (the line should reference the version and revision you need to update).

#### 17.7.50 Run-time error '5', Invalid procedure call or argument

- If only one work station is getting the error message: reboot that work station.
- If each work station is getting the error message: reboot the server. If that doesn't help, call Software Arts to replace the pcmrpw.exe file (or replace it from a backup with the exact same version and revision). If that doesn't help, call Software Arts to run a full upgrade (to replace all the dll files).
- This can happen if during an update the MrpBusy.flg file was manually deleted and then recreated as a text file with no (or bad) content. Restore the MrpBusy.flg file from the Recycle Bin instead.
- One user reported restoring his computer to an earlier restore point fixed the problem. This should be a last resort.

#### 17.7.51 At start-up you get a message: Error.dbf is not a table

It is very likely that your system has a virus. Call Software Arts, the Support Technician will replace the Error.dbf table; or replace from a backup of the same version and revision. Try to start the program again. You might get an error "not a table" about another dbf file. After replacing that file, you might get the same error about a third dbf file. At this point it is extremely likely that you are dealing with a virus (ransomware). Call your IT department or Software Arts to discuss further actions.

#### 17.7.52 Windows can not access pcmrpw.exe

- pc/MRP's sharing and security rights have not completely registered on the server. Wait an hour then try again.
- Reboot the server. If that does not fix it replace the pcmrpw.exe file and re-boot the server..

#### 17.7.53 Unable to open output file – when installing ActiveX controls on a new work station

• Disable McAfee.

#### 17.7.54 Cannot create file ....\revload.exe.

If you get this error during an auto-update from a work station, you might not have the rights to do the update on the server. Run the update from the server, logged in as Admin.

#### 17.7.55 Error 1734 Property not found IUseOldDocIncrementation – when updating (for older versions only)

Your copy of pc/MRP has a blank or duplicate accounting transaction numbers. Restore your original copy of pc/MRP and update again. This error will not happen when you update to version 9.00Q or 9.03B or higher.

#### 17.7.56 Error installing Bar Code Module – Data Segment Not Found

Get everybody out of pc/MRP and call Software Arts. The Technician will copy the C39BF.exe file from a development static files folder to the user's pcmrpw/barfonts folder. If that does not solve the problem, copy the C39BF.exe file to the user's desktop and run as administrator.

# 17.7.57 You get the message: <path>\PCMRPW.EXE The version of this file is not compatible with the version of Windows you're running. Check your computer's system information to see whether you need an x86(32-bit) or x64(64-bit) version of the program, and then contact the software publisher. Check the date and time of the PCMRPW.EXE file. Compare it to what it should be based on CONFIG.FPW. If the date and time are wrong, replace the file from another copy of pc/MRP.

#### 17.7.58 Error 111 Can not update the cursor Sulf.dbf

User does not have share and or access rights to the pc/MRP folder.

#### 17.7.59 Error 12 Variable paCategoryPre not found

Contents of the Task Manager's Default Categories are missing. Rename Tasks.clf to Tasks.clfbad and restore Tasks.clf from a backup copy of pc/MRP.

## 17.7.60 Update Installer can not locate the pcmrp on the server due to a strange naming convention on the server

Copy and paste the pc/MRP folder from the server to the the c:drive on a work station. Make one copy your backup copy and update the other copy on the c:\drive. Delete the contents of pc.MRP folder on the server and copy the contents of the updated copy on the c:drive to the pc/MRP folder on the server.

#### 17.7.61 Cannot create file pcmrp.exe

If you are performing an auto update and pcmrp.exe is not in the pcmrp folder, copy and paste the files in the appropriate RevUpdate/Update Files folder except FileList.dbf into the pcmrp folder. Use Notepad to manually change the rev in the config.fpw file.

#### 17.7.62 Temporary File Drive and only xxx megabytes remaining.

Go to Configuration, About pc/MRP and press F1. It will confirm the space available and the location of the temporary memory. Increase the amount of disk space on the server or reboot the server to reclaim temporary memory.

## **17.8 Accounting Problems**

#### 17.8.1 pc/MRP cannot close the month

- pc/MRP cannot finish closing the month because it is stuck on two or more transactions with the same transaction number or blank transaction numbers. Edit the first transaction and change the transaction number to the next available transaction number.
- Command contains unrecognized phrase or keyword or Error Loading File Error 2005. User's login name has a space in it. Remove space from login name or update to version 9.10P, 9.20J or higher.

#### 17.8.2 Entering a partial payment into accounting shows the full amount paid on Invoices and Receivers

• Edit invoices and receivers and put the correct amount paid in full and mark the complete field N if the item has not been paid in full.

#### 17.8.3 Variable not found

• If pc/MRP is closing the month and the variable not found is MDUMMY, the chart of accounts has a record in it with an illegal account type code. The chart of account record number will be displayed at the bottom of the screen. Edit the record and fill in the account type field with a legal account type code.

#### 17.8.4 End of year and or end of month balances are incorrect

- Try to re-close the month again or re-close the month on another computer.
- Re-index the chart of accounts and re-close the month

#### 17.8.5 Check reconciliation report does not make sense

• Both checks and deposits must be cleared using the clear checks program in the accounting menu. Clearing checks only will cause the uncleared balance to go negative.

#### 17.8.6 Trial Balance does not balance by the amount of the profit for the month

• User has created two or more YTD retained earning accounts (QR chart of accounts records). Edit the chart of accounts and delete the extra QR accounts or change the extra QR accounts to QN accounts. There can only be one QR account in the chart of accounts data base file.

## 17.8.7 Trial Balance YTD Retained Earnings does not match YTD Returned Earnings in the Balance Sheet and YTD Retained Earnings in the Expense and Revenue Report

• The YTD retained earnings amount in the Balance Sheet and the Expense and Revenue report are correct and include the profit (revenue - expenses) for the current month. The YTD retained earnings amount in the Trial Balance Report contains the retained earnings amount from the prior month, as the profit from the current month is already included by totaling the revenue and expense amounts for the current month. In addition in the YTD Trial Balance report the YTD retained earning for the year will always be zero since the YTD Revenues and Expenses are included in this report.

## 17.8.8 Accounts Payable Report prints out date with first 2 digits of the year causing everything to appear over 90-day column.

• Delete the ACPAYTMP.DBF file. A new ACPAYTMP.DBF file will be formed from the RECEIVE.DBF with the correct date format containing the last 2 digits of the year.

#### **17.8.9** Checks take a long time to print out.

• The transaction DBF file has alpha characters in the transaction numbers. Manually edit the alpha transaction numbers with the next available transaction number, or call Software Arts, Inc to renumber. See Section 17.8.14.

#### 17.8.10 Check number is not retained when you do an E or P type accounting transaction.

• You are selecting no when asked if you want to print checks. pc/MRP assumes by this you have decided not to print the check. Therefore there is no check. If you are handwriting checks, select print or display and answer yes to retain the check number. If you select print simply print the check on a plain sheet of paper. To correct past omissions select Modules, Accounting, Pay Bills/Print/Clear Checks, and Print Unprinted Check(s).

#### 17.8.11 Pay bills option does not display any bills to be paid.

• The receiver index is broken, re-index the receiver file.

# 17.8.12 Entering an I, E, O, R, P, or S transaction displays an error message: "NOT FOUND IN ACTMPLT.DBF FILE."

- One or more of the primary chart of accounts number(s) found in the account actmplt.dbf does not exist in the chart of accounts DBF.
- Somebody has changed a primary chart of accounts description in the account actmplt.dbf. pc/MRP does not allow the user to change this description.

#### 17.8.13 Cannot reprint checks.

• **Option 13** in the Settings and Utilities menu is set to off.

## **17.8.14** YTD Retained Earnings Amount in the Balance Sheet do not match the YTD Retained Earnings Total in the YTD Expense and Revenue Report.

• The YTD Retained Earnings Chart of Accounts (QR Account) was not debited and credited against an Undistributed Retained Earnings Account to zero out the QR Account at the beginning of a new year or somebody accidentally debited or credited the QR Account. If possible re-close the last month of the previous fiscal year. Then make an entry into your GL with a date of the first month and day of the beginning of the current fiscal year. In that entry debit out the YTD totals from the balance sheet and credit the prior year retained earnings account (QRC). Finally, re-close the first month in the current fiscal year and all months up to the current close.

#### 17.8.15 Transaction numbers have jumped to a higher number or a weird number.

• Somebody typed in a different transaction number and pc/MRP incremented the next transaction numbers from them. Edit and renumber the affected transaction numbers or call Software Arts to automatically renumber all transactions using the command REMOTEFORM("RENUMBER"). You must be aware that all prior printed accounting transactions in reports and checks will contain the old transaction numbers.

#### 17.8.16 Summary Accounts Receivable report displays "Error- Unma".

• The invoice in question has \$0.00 or a negative amount due and the invoice complete field does not contain "Y".

#### 17.8.17 Transaction number shows up twice in your GL report.

- Edit the transaction number, it has debited or credited the same chart of accounts number twice. Edit the transaction such that it only has one debit or credit entry for the difference of the amount.
- Print out your chart of accounts, you may have duplicate chart of accounts numbers. Call Software Arts if this is the case.

#### 17.8.18 Incorrect Financial Statements when closing a month.

- The user edited a transaction in the prior year and re-closes that month.
- Re-close month prior to edit date.

#### **17.8.19** Unable to proceed (accounting transactions)

• When performing an accounting close process and there is a network failure, computer crash, computer turned off, power loss, or some other problem with the computer running the close process, all users will get the message "username' is closing a month. No accounting transactions can be created while a month is being closed.", when they try to do any accounting transactions. If no one is actually closing, go to the pc/MRP production directory and delete the flag file named: **CLOSEINPROGRESS.FLG**.

## 17.8.20 Accounting AR report shows a different amount due than the Address Book screen; the invoice report agrees with the Address Book screen.

• There is an invoice where the "Complete" field does not contain a capital "Y" and there is an overpayment on the invoice.

#### 17.8.21 pc/MRP's Inventory Value Report does not match the dollar amount in the Inventory Asset Account

- The Inventory Value Report will contain parts that have been received. However, some of those receivers may not have yet been posted to the general ledger so the Inventory Asset Account would have a lower \$ amount.
- When component parts are received, the inventory value in pc/MRP is increased by the quantity received x average or std cost. However the Inventory Asset Account is increased by the actual cost. Accounting's Purchase Price Variation Report will show this difference.
- When assemblies are shipped, the inventory value in pc/MRP is decreased by the average or standard cost and the Inventory Asset Account is automatically debited by the same amount. However if the assembly being invoiced does not have an accurate cost roll up or no cost roll up at all the inventory dollar amount in the general ledger may be decreased by as little as \$0.00.
- If somebody adjusts stock, decreasing the quantity in pc/MRP, the inventory value goes down in pc/MRP. However, if accounting does not make an adjusting entry decreasing the value of inventory, the two values will not agree. It is best to use **Option 62** to block editing of quantities and costs in the inventory screen. Instead force users to use the stockroom and new adjusting entries to adjust quantities, accounting can then use the stockroom's report Adjusting Transactions Only for a specified time period to make one adjusting entry for the period.
- If somebody rolls up costs for one or more assemblies and there is a change in value, pc/MRP's Inventory Value Report will contain the new costs. However, if an adjusting entry is not made, this change will not be reflected in the Inventory Asset Account. pc/MRP contains a Prior Cost Roll-up report that will allow accounting to print out or display prior cost roll up variances.
- pc/MRP's Inventory Value Report must be run at the end of the day on the last day of the reporting period (preferably to PDF). This is the gold standard. Make an adjusting entry debiting and crediting Inventory and Cost of Goods Sold to bring the Inventory Asset Account into alignment with pc/MRP's Inventory Value Report.
- Additional parts may have been issued to WIP than what is listed in the BOM Accountings Manufacturing Variance Report will show this variance.
- Purchased capital equipment is listed as an inventory part.

#### 17.8.22 You are not able to edit the Account Type in pc/MRP's Chart of Account structure.

- Once you have selected an **Account Type**, and have entered accounting transactions for the account, you cannot change the Account Type. Call Software Arts, Inc. if this is a necessity.
- Before Software Arts, Inc. can change Account Type, we must determine that there are NO:
  - Existing transactions
    - o Existing sub-accounts
    - Twin division/department accounts

If any of the above mentioned conditions exist, please call Software Arts, Inc. before trying to modify on your own.

#### 17.8.23 You are reprinting a check and the program lists more receiver numbers than expected.

• If you have been using pc/MRP for a very long time, or maybe your company was acquired by another company, it is possible that you had to start re-using the same check numbers. If this is the case, when you enter the number of the check you want to print, next to the recent transaction, a very old transaction (for a different vendor) might show up. Call Software Arts to solve this problem. The support person can change the old checks (all checks before a given date) by e.g. adding an "x" in front of the check number in both the Receiver and the Accounting modules.

#### 17.8.24 Accounts seem to switch themselves to inactive and active.

• If you reclose a month, the old chart of accounts will be restored along with the account's active/inactive status. Any account that was deleted since the original close. Please note that accounts created since the original close will not be removed.

#### 17.8.23 Accounts seem to switch themselves active/inactive

• If you reclose a month then the old chart of accounts will be restored along with the accounts' active/inactive status. Any accounts that were deleted since the original close will reappear. Please note that accounts that were created since the original close will not be removed.

## 17.8.24 If you have pc/MRP version 8.50A – 8.50S and the current AR Summary report based upon invoices does not match the Chart of Accounts report based upon the Balance for a Date/Time Period.

• You are creating 'R' type accounting transactions against a credit memo or you have manually attached a credit memo to a closed invoice (both of these methods should not be used and are **NOT** supported by pc/MRP). Please refer to the Credit Memo slide show on our website in MRP101, for the correct methods for handling credit memos in pc/MRP. http://www.pcmrp.com/mrp101/creditmemooverview.htm

To correct the past errors, look for 'R' type accounting transactions that debit 'income' and credit 'checking'. Edit these transactions and debit AR instead of 'income'.

Then update to pc/MRP version 8.50T or higher and in the

#### 17.8.25 Post a Moint, select Profit and Loss and get a "Bad Account Type" error message

• Check Show Sub Accounts when selecting the Profit and Loss Report.

## 17.10 pc/MRP is Running Slow

#### 17.10 pc/MRP is too slow.

#### Overview

• Call pc/MRP's Support Line. They will run NetworkTest() from pc/MRP's Command Line. If this test has network speeds of 1100 transactions or greater per second, your network is OK for that work station. Proceed to the next work station. If all work stations test higher than 1100 transactions per second, the problem is most likely listed in the pc/MRP portion of this chapter.

**Work Stations** (*run NetWorkTest(*), *make the change, run NetWorkTest(*) *again, if the speed did not improve restore the setting and move on to the next test, repeat for each workstation*)

- Reboot the workstation. If that helps, you might have had too many programs or a heavy duty program running.
- Disable the workstation's virus checker. If that helps, turn the virus checker back on, exclude the PCMRPW folder from the virus checker and test again. If that helps, leave the virus checker disabled or better yet, install another virus checker. If you have certain versions of Kaspersky or Avast you may need to switch to another virus checker. In one case Norton had to be removed from two computers, in other cases Norton is fine.
- If you start pc/MRP and it detects the SMB2 Protocol has not been zeroed out, restart pc/MRP by right clicking on the pcmrp.exe shortcut, select "Run as Administrator", and answer YES to zero out the SMB2 cache time. One work station that has not been zeroed out can slow down all work stations.
- Turn off the work station firewall. Always keep the firewall on the router on.
- If the work station is connecting to the server via wireless, change to an Ethernet connection.
- Change the network card settings to a fixed setting instead of "Auto Detect", disable Interrupt Moderation and turn off power savings. See slide show about Troubleshooting a Network Card: For XP/2003: <u>http://www.pcmrp.com/it101/xpnetworkcardspressstartbutton.htm</u> For W7/2008: <u>http://www.pcmrp.com/it101/w7networkcardspressstartbutton.htm</u>
- Right click on My Computer, select Properties, Advanced, Performance Settings, Data Execution Prevention, Turn on DEP for Essential Windows Programs and Services Only.
- If you are using a Windows 7 Home workstation, update to Windows 7 Pro.
- Check you computer's power plan in Control Panel, Power Settings, Change plan settings, Advanced, Processor power management, Minimum processor state. If it is set to very low (5%) change it to high.
- If you are remoting in and using a re-directed printer, print to PDF.

**Server** (*run NetWorkTest*()*from a work station, make the change on the server, run NetWorkTest*() *on the work station again, if the speed did not improve restore the setting and move on to the next test*)

- Reboot the server.
- Check that the server is not overloaded using the server's task manager. Another program that uses SQL Server could overload your server.
- If you have a Windows 2008 server upgrade the latest version of pc/MRP.
- Disable the server's virus checker. If that helps, turn the virus checker back on, exclude the PCMRPW folder from the virus checker and test again. If that helps, leave the virus checker disabled or better yet, install another virus checker. If you have certain versions of Kaspersky or Avast you may need to switch to another virus checker. In one case Norton had to be removed from two computers, in other cases Norton is fine. Try disabling/removing Bit Defender (Ben Klaehn).
- Turn off continuous back up programs such as Double Take. See Chapter 15.2 for the recommended backup method. Turn off programs such and Sandboxie on the server and at work stations.

- Remove any screen savers on the server.
- Store pc/MRP on a physical drive inside the server and not on an external NAS drive.
- If pc/MRP is on a Terminal Server the shortcut to pc/MRP should point to the actual physical drive inside the server and not to a virtual or mapped drive.
- Copy the pcmrpw folder to another server; re-point the workstation shortcuts to the new server and the "pcmrpw.exe" file.

**Network** (*run NetWorkTest*()*from a work station, make the change, run NetWorkTest*() *again, if the speed did not improve the problem is elsewhere*)

- If you have a Giga Bit Router and Network cards, upgrade to Cat 6 cables
- If you have a program named HP Sure Sense, disable it and see if that solves the problem Dave Clark PMC, Precision Micro Control Corp.

#### pc/MRP

- Upgrade to the latest Version of pc/MRP as Version 8.80 and higher will produce significantly faster reports.
- If sending reports to Excel is very slow, check if you have any Memo fields in the list of selected fields. If you don't specifically need these on your report, uncheck them (and save the list if desired).
- Pictures in the Inventory Module referencing a path that does not exist will delay the inventory part's "EDIT" screen from displaying.
- If you are scrolling for a filtered list of records, e.g. in the Sales Order scroll window you are listing Open Records Only, change the setting to Both Open and Closed. Even though the "open only" list is shorter it actually takes much longer for pc/MRP to display than the longer full list. This is because when you filter the list for "open only" pc/MRP needs to look at every single record and decide whether or not it is open.
- If a certain report seems to be slower than expected, check if the report displays the "page of pages" information (e.g. Page 8 of 14). This feature considerably slows down reports.
- If re-indexing is running slow and there is a file named SAEIU.DLL, start pc/MRP with Run as Administrator. Reboot your computer. If that does not fix the problem, rename SAEIU.DLL to SAEIU\_ORIG.DLL. If you open up Task Manager you will see many regserv processes running at the same time.
- If a certain action in pc/MRP (e.g. entering a new sales order or entering an accounting transaction) is significantly slower than others, check your document numbers.

If you have invalid (less than 6 digits) document numbers like 00 or blank, or if the document numbers include alpha characters, pc/MRP is taking a long time trying to increment that "number". E.g. A00318 is good, but 2SEP15 is not. Call Software Arts. View the Command Line Renumber Slide Show: http://www.pcmrp.com/vfp101/commandlinerenumber2.htm, the Incrementation Slide Show: http://www.pcmrp.com/vfp101/incrementation804.htm, and the picure on the following page.

*! string *! ten ch	Frogram Incrementation Methods Version 8.04 ODNIM.FLG
Prior to 8.04 users must manually roll 999999 to A00001 New Auto Increment method 000001 999999 A00000 A99999 B00001 B99999 Z99999 AA0001 (No longer highest Number)	ODNIM.FLG - pc/MRP Versions 8.04 and Higher: This fig file will allow pc/MRP to auto increment from 999999 to A00001 and A99999 to B99999, etc. However if any current dbf files contained alpha or leading or trailing spaces during the update, this new method would not work. So pc/MRP inserted a file called ODNIM.FLG into the pcmrp folder to continue to use the old incrementation method and you must manually edit a 999999 or the highest document number to A00001. If a file named ODNIM.FLG exist in the pcmrp folder, pc/MRP is using the old incrementation method. If not pc/MRP is using the new incrementation method. Another way to test which incrementation method your copy of pc/MRP is using the old incrementation method. If it returns "000000" your copy of pc/MRP is using the old incrementation method. If it returns "wc0001" your copy of pc/MRP is using the new incrementation method. Customers who started with version 8.04 and higher use the new incrementation method. If a file named ODNIM.FLG exists in their pcmrp folder they are on the old incrementation method. If the ODNIM.FLG file exists, you must check that none of your main dbf tables have Document Numbers with spaces or Alpha Characters. If a table or tables have spaces or Alpha Characters you must get everybody out, call software Arts, create an all open PDF report PDF, run the Renumber command from the command line, This will insert new document numbers into that table and all tables related to that table's document numbers. Once all of the tables have pure document numbers, remove the ODNIM.ftg. Now, receiver Jb9999 will auto increment to Jc0000, Sales Order12345_ will auto increment to 123451.
	StockIncrForce.flg pc/MRP Versions 9.22B and Higher: This flg file will allow pc/MRP to auto increment the stockroom transactions from 999999 to A00001, . It effects the stockroom module only. You must restart pc/MRP for this file to take effect. This way you can leave the ODNIM.flg, delete older stockroom records (optional), run the Renumber routine for the Stocktra.dbf file,and the stockroom will increment instantly. StockIncrAdv.flg - pc/MRP Versions 9.33B and higher
Line: 1 Col: 37	This flg file will allow pc/MRP to contain upto 1.29 billion stockroom records.         See Command Line Renumber Slide Show:         http://www.pcmrp.com/vfp101/commandlinerenumber2.htm

## 17.11 HTML, PDF Email as PDF and Excel Problems

#### 17.11.1 Trying to print to PDF or Email as PDF does not work

• Regardless of the problem the first step is to try to print to PDF first (see Section 17.11.2), using a standard form. Once that is corrected you can try to use Email as PDF (see Section 17.11.3).

#### 17.11.2 Print to PDF/HTML Problems (including PDF missing or disabled in the drop down menu)

- There are three versions of the Amyuni PDF/HTML Print drivers, pcMRP Internal Printer v2.50, pcMRP Internal Printer v3.02 and pcMRP Internal Printer 4.5. Version 2.50 is included with pc/MRP Versions 8.20AC, 8.23H and 8.24D and lower. Version 2.50 does not support Windows Vista nor does it support 64 bit computers. Version 3.02 is included with pc/MRP Version 8.20AD, 8.23J, and 8.24E and higher. Version 3.02 supports Windows Vista and or 64 bit computers but does not work on Windows 95 machines and may have to be installed manually on Windows 2000 machines. pc/MRP Internal printer 4.5 is included in pc/MRP Versions 8.50Z and 8.54H and higher. If you are running pc/MRP on a W7, W8 or W10 computer (32 bit), you should be using pc/MRP 8.50Z or 8.54H or higher. pc/MRP Internal Printer 4.5 (a revision different than the previous one) is included in pc/MRP Versions 8.70K and 8.72B and higher. If you are running pc/MRP on a W7 or W8 64 bit computer, or on a Windows 10 computer, you should be using this print driver on every work station.
- **Option 19** must be set to allow the installation of the PDF and HTML print drivers.
- If you are trying to print to PDF but you get a printer printed copy instead or if Outlook opens up but there are no attachments, the form has been dedicated to a specific printer through modifying the report by selecting "File, Page Setup, Print Setup" (or by checking "**Report, Printer Environment**"). To remove the printer settings uncheck this setting, or call Software Arts to run the FRXHPFIX() program, select the form with the problem. If you wish to remove printer settings from all your forms, run **FRXHPFIX\_ALL**() from the command line (this will NOT remove printer codes from the PRCHECKS or CUSCHECK forms).
- With Vista and some XP computers, you must be logged onto the computer as the computer administrator. To find out if you are the computer administrator right click on Windows Start Button, if you see the option "Explore all Users", you are this Computer's administrator (not necessarily the network administrator). Try starting pc/MRP by right-clicking on the pc/MRP shortcut and selecting "Run as administrator". (XP and Vista home do not have this option)
- Make sure your security settings allow you to install a printer driver by clicking on the Windows Start, Control Panel, Administrative Tools, Local Security Policy, Security Options, Devices: and Disable "Prevent Users from installing print drivers".
- If you are accessing pc/MRP through Microsoft Terminal Server, the PDF Print Driver must be installed on the Terminal Server itself. To do this, you must remote into pc/MRP on the Terminal Server or start pc/MRP at the Terminal server itself.
- If you are using Windows Vista, set **User Account Control to Off** by pressing the Windows Start Button, Control Panel, User Accounts Settings and turn User Account Control Off and reboot (make sure you have saved any data in any open programs first!). You can later turn this option back on if you wish, or your IT department requires it turned on. If the above conditions are met, restarting pc/MRP will automatically install the print driver and you are done
- The user does not have modify rights to the PDF subdirectory.
- Remove the current pc/MRP printer driver, reboot the computer, restart pc/MRP by right clicking on the pc/MRP shortcut and running as Administrator. If pc/MRP has no trouble with installing the printer driver do not bother with the manual install instructions.
- If you have trouble removing the printer driver, search for printmanagement.msc in the Start button. Select Custom Filters, All Printers. Find the pc/MRP Internal Printer Driver 4.5. If it has jobs in the queue, cancel all jobs. Another way is to print a report (to a real printer), right click the pc/MRP printer driver, select Cancel all Documents. Then reboot the computer.
- If you are running pc/MRP on a 64bit **W7**, **W8 or a W10** computer (you should be running pc/MRP's latest 4.5 print driver) and you get the error message Operation could not be completed (error 0x800f024b). The hash for the file is not present in the specified catalog file you need to do the following. If your computer has a pc/MRP Internal Print Driver (Control Panel, Printer and Faxes), right click and delete it. Then you must

reboot your computer. If your computer does not have pc/MRP's Internal Printer Driver or you have removed it, Call Software Arts and request they download and install a copy of pc/MRP's latest Printer Driver Installer, **SaPdfDi.azf** into your pc/MRP directory (answer "Copy and Replace" if prompted). The file size (not size on disk) is 7,089,282 bytes. Restart pc/MRP by right clicking on the pc/MRP shortcut and running as Administrator. You can also reinstall all exe and dll files by doing a full update.

- If pc/MRP can not install the printer driver automatically, you can **install the 4.5 print driver manually** by making sure the above conditions are met and by following the directions listed below
  - 1. Locate the SaPdfDi.AZF file in the pcrmpw folder.
  - 2. Create a folder named SaPdf. In the users local C:\ drive
  - 3. Copy this file into the new folder.
  - 4. Rename the file to PdfDrive.Zip.
  - 5. Extract the file into the new folder by right clicking on the file and selecting Extract All
  - 6. Double click on Install.exe file the new folder
  - 7. Go to Printers and Faxes
  - 8. Select the Amyuni Document Converter 450
  - 9. Select the General Tab and change the printer driver name to: pcMRP Internal Printer 4.5.
  - 10. Select the Sharing Tab and click on the "Do not share this printer" radio button.
  - 11. Exit out of the Properties screen.
  - 12. On the Printer Sharing screen, select the "Do not share this printer" radio button.
- Modify the print driver's properties.

#### Solution:

- Try the following:
- 1. Go to Control Panel, Printers & Faxes
- 2. Right click on the pcMRP Internal Printer 4.5 or v3.02 and select Properties
- 3. Click on the Port tab
- 4. Click on Add Port, select the 'Local' Port type, and press the 'NEW PORT' button.
- 5. Name this port PDF1 (as an example)
- 6. If not already checked, check the check box near the PDF1: port that you just created
- 7. Click 'Apply'
- 8. Re-boot the computer
- 9. Test the PDF print option.
- 10. If this does not work select the NULL (if available in W7 or W8 as the port)
- 11. If this does not work select Start printing immediately instead of spooling the documents.
- In one case the pc/MRP printer driver was not listed under Devices and Printers, but the automatic install did not start when running pc/MRP as administrator. Logging in as a different Windows user revealed that the pc/MRP printer driver and a regular HP printer driver were "tangled" into one "hybrid" printer driver. (The name showed one and the hardware the other.) Deleting the "hybrid" and reinstalling both printer drivers helped.
- Created PDF files contain unreadable characters when opened or read by a different computer. The other computer may not have the fonts installed that the PDF needs. You have two options: Install the missing fonts on the other computer (preferred). Or add a text file named "pdfembed.flg" in the pcmrpw directory. Note that the PDF file will be larger due to imbedding the fonts within the PDF file.
- Adobe Acrobat displays an error msg "File in use by another" Delete the pc/MRP Internal Printer driver and PDF1 port. Reinstall the printer and PDF1 port.

#### 17.11.2.1 Error code -30

Microsoft has programmed Windows 10 to update not only the Windows 10 operating system but many other components such as print drivers. Unfortunately Windows Update will update the pc/MRP PDF Printer Driver from Amyuni to a Print Driver from Amyuni which we have not purchased a license for.

If you have a Windows 10 PC, please follow the steps listed below:

Reboot your PC to clear the print driver from memory Click on the Windows Start Button Select Settings, looks like a gear Select Printers and Scanners Uncheck "Let Windows manage my default Settings" Click on the pc/MRP Internal Printer 4.5 Open queue and clear any pending print jobs Select Remove/Un-install the pc/MRP print driver Right click on your pc/MRP Desktop Shortcut Select Run as Administrator Allow pc/MRP to re-install its print driver Exit pc/MRP and log back into pc/MRP as the user by double clicking on the pc/MRP shortcut Login using the user's name and password and test sending the offending document to PDF http://www.pcmrp.com/it101/reintallpdfstart.htm

If the above does not work you may have to: Select Windows Search Icon (Magnifying Glass) Type in the words "Control Panel" Select Control Panel App Select Devices and Printers follow the instructions above

In some cases you may have to: Enter the words "Default Apps" in the Windows Search Text Box Select Default Apps by file type Set PDF to default to Microsoft Edge

In some cases you may have to: Go to Control Panel Select Administrative Tools Select Local Security Policy Select Local Policies Select Security Options Disable Devices Prevent users from installing printer drivers

In very rare cases you may have to: Open Windows File Explorer Select your c:drive Select Windows Select System 32 delete or rename all of the cdinf\*.dll files repeat the first steps above pc/MRP will automatically reinstall xmlite.dll xmlite64.dll cdinf.dll cdinf64.dll

#### 17.11.2.2 When reviewing PDF documents the Adobe tool bar is not displaying in Google Chrome.

Google Chrome now has a built in PDF viewer which is default. To go back to using Adobe plug-in, enter "about:plugins" in the address bar, press enter, and disable Chrome PDF Viewer.

#### 17.11.2.3 PDF is created but does not display.

Eventually you get an "Adobe Acrobat failed to connect to a DDE server" error message. Open up Task Manager and close all Adobe background processes. If you are on a Windows 10 computer use Windows Search Option, enter Default Apps and set PDF to be opened by default by Windows Edge. If that does not work and you are on a Windows 10 computer, right click on the pc/MRP shortcut, select Properties, select Compatibility, and Set compatibility to Windows 8. You might need to reboot the computer.

#### 17.11.2.4 No longer prints to PDF or prints to the wrong printer.

If you are on a Windows 10 workstation, left click on the Start Button, select Settings (graphic), Devices and scroll down and turn off Let Windows manage my default printer. You might need to reboot the computer.

#### 17.11..2.5 You cannot install the printer driver, it gives a 0x800... error

In one case closing phantom file locks or rebooting the server solved this problem. You might need to reboot the computer.

#### 17.11.2.6 Cannot open a PDF file (error 31)

- Save the PDF file to the main pc/MRP Folder or one of its subfolders or a mapped drive instead of a UNC Address (all workstations must have the same mapped drive).
- Remove and Re-install Acrobat.
- Open Acrobat Reader, select Edit, Preferences, Trust Manager and check settings
- Make MS Edge the default program to open up PDF files.

#### 17.11.2.7 You cannot open a PDF file by right clicking on it

Remove and reinstall Acrobat Reader.

#### 17.11.2.8 Cannot remove the pc/MRP internal printer driver

At the Windows search text box, enter printer management. Select All Printers, right click on the pc/MRP internal printer driver, select Cancel All Jobs.

#### 17.11.2.9 You cannot save a PDF file to pc/MRP's PDF folder

If you are on a Windows 10 computer, right click on the Start button, select Control Panel, Network and Sharing Center, make sure the Network is set to Private.

#### 17.11.2.10 Your PDF file displays and prints in black and white but not color

When the form was modified, and if may have saved the default printer settings to that form. Call Software Arts to run the FRXHPFIX() program from the command line and select the form with the problem.

#### 17.11.2.11 Visual Foxpro stopped working or C0000094 Error Message

Default Print Driver not set to a real printer.

#### 17.11.3 Email as PDF - Problems

- Once you have PDF working, you can move onto trouble shooting Email as PDF.
- If the option to Email as PDF does not appear as a print option have Software Arts run the command msg(chkserver("Outlook.Application")) at the command line to see if Outlook is set to allow outside programs to open Outlook. If it returns .F., open Outlook, select Outlook Options, Trust Center, Macro Settings, Enable all Macros (courtesy of Josh at Flow MD). With W7 workstations select Outlook Help, Privacy, Trust Center, Macros, Enable all Macros.
- If you wish to email PDF documents directly, Microsoft Outlook and NOT Outlook Express must be installed on your computer as an automation server. If it is not, contact your network administrator. As an alternative, you can save the PDF file and attach it manually later or set **Option 19** to 'Code Base HTML'. Select 'HTML' when printing a document and manually attach the saved file to an email.
- MS Outlook must be open on some computers and closed on other computers. Test to see which setting works. The error message might say "**RECIPIENT is not an object**". Configure both pc/MRP and Outlook to always run as administrator (right click on both shortcuts, select Properties, Shortcut, Advanced, Always run as Administrator, reboot, and try again. In many cases Email as PDF will now works Outlook open and closed.
- Windows 10, Control Panel, Default Programs, Microsoft Outlook, Choose Defaults, select Email
- Reboot the work station
- Try running Outlook as Administrator
- See if Adobe can email a PDF file. If it can not, you may need to Repair Outlook using Control Panel, small icons, Programs and Features.
- You may have accidently set Configuration, Settings and Utilities, Option 99 to CDO Email and not entered the email server settings. Turn off CDO so pc/MRP will use Outlook
- If you are running a W8 or W10 machine, get an **error -41 "printer not activated"** and the above suggestions don't help, try the following: Right click the pc/MRP shortcut, select the Compatibility tab, select W7 compatibility (courtesy of Dan at IT Secure Services).
- If you are using MS Terminal Server, you must log into the terminal Server and start your copy of MS Outlook. This may appear as **Unknown Member "recipients" (error 1943).**
- Install the local desktop version of Outlook not the internet version of Excel.
- This behavior can occur if the following registry keys are missing or incomplete (Regedit, Find, Keys OutLook.Application):

HKEY\_CLASSES\_ROOT\Outlook.Application

HKEY\_CLASSES\_ROOT\Interface\{000C0339-0000-0000-C000-00000000046}

Note, on machines with a 32-bit version of Office and a 64-bit version of Windows, the above keypath is instead:

 $HKEY\_CLASSES\_ROOT\Wow6432Node\Interface\{000C0339-0000-0000-00000000046\}$ 

#### 17.11.4 pc/MRP can send a file to Excel

- At the command line run msg(chkserver("Excel.Application"))
- This error occurs when you save a Microsoft Office file type blocked by File Block settings in the Trust Center. To enable this file type, do the following: Click the File tab, Click Options, Click Trust Center, and then click Trust Center Settings. In the Trust Center, click File Block Settings. Uncheck Excel 97 2003 Work Books and Templates. Also select Macro Settings, Enable all macros and Reboot
- Set user Account Control to OFF and reboot
- You may have 2 copies of Excel, remove one of the copies.
- Run a full update to get new pcmrp.exe file, .flls and .dlls
- Configure both pc/MRP and Excel to always run as administrator (right click on both shortcuts, select Properties, Shortcut, Advanced, Always run as Administrator, reboot, and try again
- Install the local desktop version of Excel not the internet version of Excel
- Save the file to the desktop or a real folder not to a folder in the cloud

## **17.12 Credit Card Connectivity Issues**

#### 17.12.1 Credit card processing software can't connect to synapsegateway.net.

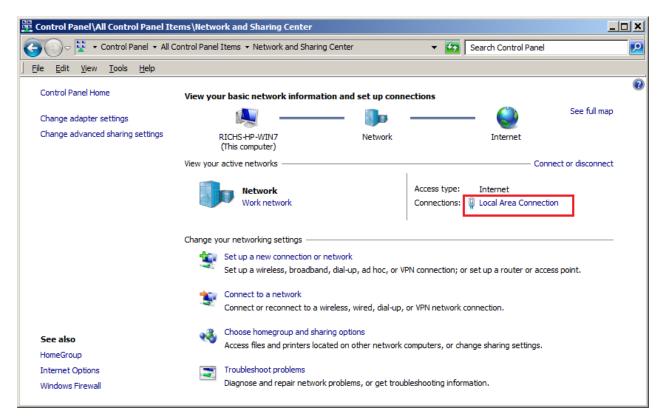
- Disable the computer's firewall. If that works, configure the firewall to allow the connection.
- Problem: The credit card processing software can't connect to synapsegateway.net. Message: "There was a disruption while communicating with the credit card processor. The credit card information was NOT submitted. Connectivity error - The remote name could not be resolved:

Connect14.synapsegateway.net"

Solution: Change the user's DNS server settings.

- 📴 Control Panel \All Control Panel Items <u>\_ D ×</u> 🐖 🝷 Control Panel 🝷 All Control Panel Items 🝷 Search Control Panel 9 <u>File</u> Edit View Tools Help Adjust your computer's settings View by: Large icons 🔻 Ease of Access Center Flash Player (32-bit) Folder Options Getting Started HomeGroup Fonts **Indexing Options** Internet Options Java (32-bit) Location and Other Sensors Mail (32-bit) Keyboard Mouse Network and Sharing Center Notification Area Icons **NVIDIA Control Panel** NVIDIA PhysX (32-bit) Parental Controls Performance Information and Personalization Phone and Modem Tools Power Options Programs and Features QuickTime (32-bit) **Realtek HD Audio Manager** Recovery Region and Language RemoteApp and Desktop 0 Sound Speech Recognition Connections
- 1. Go to Control Panel, Click on "Network Sharing Center"

2. Click on link "Local Area Connection"



3. Click on [Properties]

🕴 Local Area Connect	tion Status	×
General		
Connection		
IPv4 Connectivity:	Internet	
IPv6 Connectivity:	No Internet access	
Media State:	Enabled	
Duration:	3 days 07:29:36	
Speed:	100.0 Mbps	
Details		
<u></u>		
Activity		-
	Sent — Received	
Bytes: 8	45,695,234 6,107,121,065	
🚱 Properties 🤅	Disable Diagnose	
	Close	

4. Select line item "Internet Protocol Version 4 (TCP/IPv4) then click on [Properties]

Local Area Connection Properties	×			
Networking				
Connect using:				
Realtek PCIe GBE Family Controller				
	<u>C</u> onfigure			
This connection uses the following items:				
<ul> <li>Client for Microsoft Networks</li> <li>Microsoft Network Monitor 3 Driver</li> <li>QoS Packet Scheduler</li> <li>File and Printer Sharing for Microsoft Networks</li> <li>Internet Protocol Version 6 (TCP/IPv6)</li> <li>Internet Protocol Version 4 (TCP/IPv4)</li> <li>Internet Protocol Version 4 (TCP/IPv4)</li> <li>Link-Layer Topology Discovery Mapper I/O Driver</li> <li>Link-Layer Topology Discovery Responder</li> </ul>				
Install Uninstall	Properties			
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
(	OK Cancel			

5. Change values in textbox "Preferred DNS server" to "8.8.8.8" Change values in textbox "Alternate DNS server" to "8.8.8.8"

Internet Protocol Version 4 (TCP/IPv	4) Properties	? ×				
General						
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.						
O Obtain an IP address automatically						
• Use the following IP address:						
IP address:	192.168.1.28					
Subnet mask:	255 . 255 . 255 . 0					
Default gateway:	192.168.1.1					
C Obtain DNS server address auton	natically					
□ Use the following DNS server add	resses:					
Preferred DNS server:	8.8.8.8					
Alternate DNS server:	8.8.8.8					
Validate settings upon exit Advanced						
	OK Ca	ancel				