

This Manual is available for download at:

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

pc/MRP for Windows Version 9.10 January 11, 2017

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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					
<u>M</u> odules <u>T</u> ools	Optional	<u>Configuration</u>	Ma <u>n</u> ual	De <u>v</u> eloper	Help
Inventory	•				
<u>B</u> OMs	•				
Stoc <u>k</u> room	<u> </u>				
Purchase	•				
<u>R</u> eceive	•				
Work Order	•				
<u>S</u> ales Order	•				
In <u>v</u> oice	•				
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<u>A</u> ddress Book	•			ile.	
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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: <a href="http://www.pcmrp.com/pricing.htm">http://www.pcmrp.com/pricing.htm</a>

## **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. www.virtualbox.org

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:

Saw Saw	<u>_</u> _×
File Edit View Favorites Tools Help	🥂 (La constant)
🚱 Back 🔹 🕥 🖌 🏂 Search 🔯 Folders 🔛 -	
A Saw Properties	The Security Screen may not be visible if the Control Panel. Administrative Tools, Local Security Policy, Network Access: Sharing and security model for local accounts is not set to Classic
Add     Make sure everybody who is going to use pc/MRP has Modify Rights or higher.       Permissions for Everyone     Allow       Full Control     Image: Control modify	If pcMRP is installed on a Domain Server controlled network, right click on the pc/MRP directory, Select Sharing, Select Permissions and make sure pc/MRP Users have Read and Change Permissions.
For special permissions or for advanced settings, Advanced Click Advanced Click on Advanced	File Folder If you have a Windows 98 server, make sure your XP Work Stations have Service Pack 3 installed.

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	Explains a few custom settings that users should learn.
3.1.4 Creating a Practice Directory	Shows users how to make a backup copy and a practice 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
	customers, and Posting Financials.
3.1.18 Some Final Thoughts	Discusses where to go from here.

# 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 Configuration, About pc/MRP. This means select from the drop down menus, Configuration, and then About 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 Configuration, and then Settings & Utilities. Scroll up and down as desired. Hit Cancel 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		<b>is - Version 8.6</b> 4 al Configuration						<u>-                                    </u>
Modules	Tuois Option	ar coninguration	Manuai					
	<b>1</b>							ı
	Address E	ook New Add Company Nam		Addr Typ	e Statu:	s Balance		
	ABC002	ABC MANUFAC					0.00	
	1120002		1010110				0.00	
	Company	Contacts	Sales Contact Info	Billing \ Shi	pping	Documents	QuickBooks®	
	Attention	John Smith		Contact	John Sr	nith		
	Address	123 Main Street		Title	VP Purc	hasing		
				Salutation	Mr.			
	City	San Jose		e-Mail	jsmith@	gaboman.com		
	State / Zip	CA	95119	Website	www.ab	ocman.com		
	County			C-Card			Exp /	
	Country	USA		-	, C <u>r</u> edi	t Cards	Do Not Call	
	Telephone	333-444-0900	Ext	Serial #			Do Not Fax	
	Faxno	333-444-0901		Start Date	05/14/2	012	Do Not e-Mail	
	Comment	s:		<b>'</b>	, 			
	ABC has b	een with us for (	over 20 years				<u> </u>	
	La <u>b</u> els	Logbook	N 📴 🥜 Delete			<u>O</u> k	<u>C</u> ancel	
Contacts (	c:\pcmrpw864\(	contacts.dbf)		Record: EOF/	3	Record Unlock	ed 🗌	

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 Settings Sort Order Color Code		Include No Selections				
Go <u>T</u> op Go <u>B</u> ottor	Begin Scrolling <u>A</u> t.  ▼ <u>N</u> earest Mat n Searc <u>h</u>	ich				
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					
	Action © View © Edit					

**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.

VFP - C:\V863 (User: C Iodules Tools Optional		anual Developer	Help					_ 🗆
Inventory (Edit Mo			X					
Part # 00000000		Part - Inventory		evisio	ABC	=	nspection Crit	
Description BEARING	, 3" OD × 1" ID	γ			Displaye	d Currency B	ASE CURRENCY	<u> </u>
Qtys \ Costs	Vendors	Sales Price	s Def	tails 1	De	etails 2	QuickBooks	3®
Costs: Average	7.000013				Area	Quantity	/ Location	
Standard	10.000000	Assembly Cost Details		1	Stores	990.00	0	
Last PO	7.000000			2	TEST/MRB	2.00	0	
On Order	5.000	Display &		3	R&D			
On Demand	1.000	Update		4	DEMO	<u> </u>		
MRP Available	984.000	Std Order Qty	0.000	5	INCOMP			
Estimated Usage		Order Multiple		6	ENGINEER			
Safety Stock:				7	QC HOLD			,
Minimum Gty	10.000			8	STAGING			
Maximum Qty				9	STAGING			
				11	RESERVED			
Stock & Issue Unit	EACH	Data (1		12	Area-12			
Lead Time (Days)	2	Date of La	STRIFCC	1 12	WIP	73.00	0 Audit WIP	
		,				1 75.00		
Delete	<u>U</u>	Log Boo	ok Part	<u>S</u> tatu:	s	<u>O</u> k	<u>Cancel</u>	
artvend (c:\v863\partvend.c	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.

BOM NUMBER : 000000001	REV :
BOM DESCRIPTION: BICYCLE TOP ASSEMBLY	MODELNO:
DATE : 01/31/2000	
QTY : 1.0000	
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 000000007	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, 000000008 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 000000012		
			Alternate Part #s
🔀 Item # 🛛 4	BOM Qty	1.0000	
Part#	Туре		
Description			
Manufacturer			
Model #			
Unit	Ave Cost	0.0000	
,	Std Cost	0.0000	Staging Bin
	Last PO Cost	0.0000	
Reference Designators			- Delata
		2	Delete
			Create New Part
			Settings
			<u>k</u>
		-	<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: 000000002 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 BOI	number e	exists in Inventory			×
?	BOM numb	er 000000002 already exist:	s in the Inventory tab	le. Do you want to	Re-use this part number?
		Yes	No	Cancel	
			<u>Ok</u>	<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.

00000001: BICYCLE TOP ASSEMBLY (Edit Mode)								
	Item 7	Туре	Part Number	Part Description	Quantity 📥			
►	1	А	000000002	WHEEL	2.0000			
	2	Ρ	000000007	PEDALS	2.0000			
	3	Ρ	000000003	FRAME, BICYCLE FRAME	1.0000			
	4	Ρ	000000011	BRAKE ASSEMBLY	1.0000			
	5	Ρ	000000005	GEAR CHANGER ASSEMBLY	1.0000			
	6	Ρ	000000006	BANANA BICYCLE SEAT	1.0000			
	7	Ρ	000000013	BOLTS	10.0000			
					$\nabla$			
C	Component Ref. Designators Miscellaneous							
ltem #			1	BOM Qty 2.0000 Alternate Part #s	<u>E</u> dit Item			
	Ro	י ז אי הי			Move to:			
Part#			000000002	Type Assembly	<u>S</u> ub-Assy			
Description			WHEEL		Parent Assy			
M	anufactu	irer						
	Mode	el# [			- Changes:			
	U	Unit Ave Cost 0.0000						
			Standa	ard Cost	<u>R</u> evert			
				Staging Bin	_ [ ]			
			Lasti	PO 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.

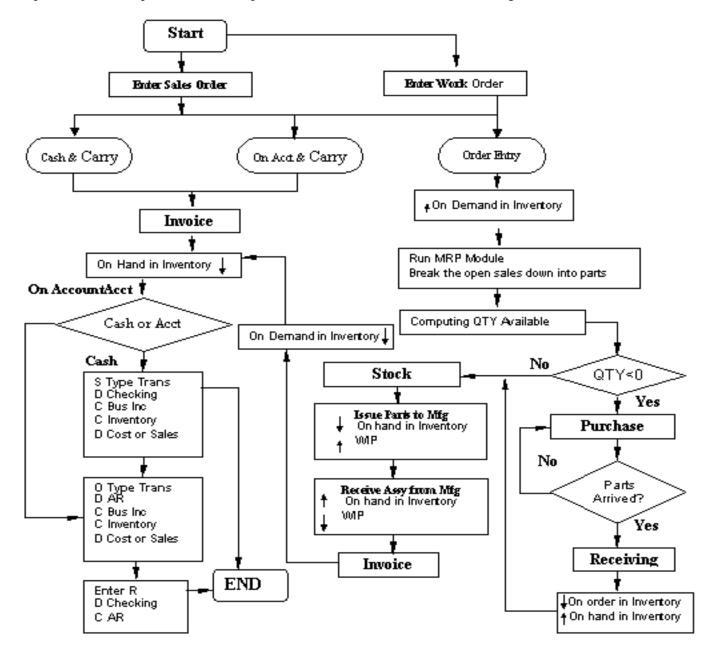
**Note:** There are several useful options in the BOM drop down menu. From that menu, you can delete a BOM, duplicate a BOM, change a BOM number, change the BOM description, and Audit BOMs.

Note: You can view the image for that specific part or BOM by selecting BOM Image or PART Image 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.

## 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 <u>A</u>dd 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: Work orders only allow one line item.

**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	X			
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	MODEL NUMBER	VENDOR	PHONE #	COST UNIT	QTY REQ	
FRAME,	X234-987	CANONWALE INC.	111-111-1111	0.0000	4.000	
GEAR	ABTTR-445778	CANONWALE INC.	111-111-1111	0.0000	4.000	
DIRT TEASER		SMITH BIKE	111-111-3211	0.0000	8.000	
BANANA		SMITH BIKE	111-111-3211	0.0000	4.000	
PEDALS		SMITH BIKE	111-111-3211	0.0000	8.000	
NGF		SMITH BIKE	111-111-3211	0.0000	8.000	
SPOKES		SMITH BIKE	111-111-3211	0.0000	320.000	
STEM FOR		SMITH BIKE	111-111-3211	0.0000	8.000	
BRAKE		SMITH BIKE	111-111-3211	0.0000	4.000	
BOLTS		SMITH BIKE	111-111-3211	0.0000	72.000	

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.

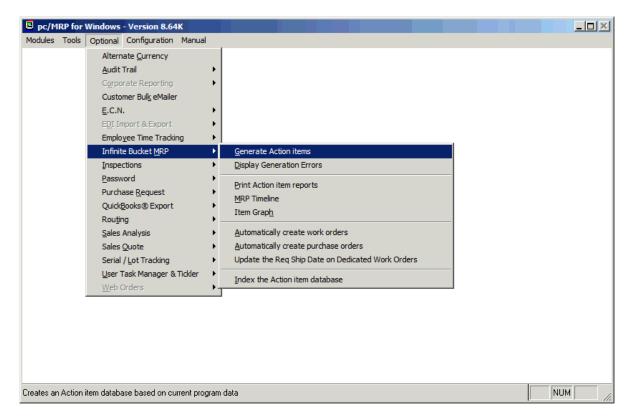
You might want to print this report or to make a screen shot, to compare it against the Infinite Bucket report. Once again, select No when you are prompted if you want to "Automatically create Purchase Orders".

## 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.

Infinite Bucket MRP Generation Criteria								
Data to be considered by the MRP generation process								
Inventory in Areas  STORES  TEST/MRB  R&D  DEMO DEMO INCOMP ENGINEER QC HOLD RMA	Demand From ✓ Open Sales Orders ✓ Open Work Orders ✓ Open Quotes (Forecast) ✓ On Hold Sale/WO Line Items ✓ Sale/WO with Preliminary BOM	Demand For  Inside Labor Requirements  Minimum Qty Stocking Levels Recalculate Min Stocking Levels Calculation Settings						
Select All Clear	Select <u>P</u> rimary Vendor <u>V</u> endor with best price	<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	Display
I Initial Onhand	🖲 Dail <u>y</u> O <u>W</u> eekly	Report Type
Purchase Orders	C Mo <u>n</u> thly	Standard C Custom
BUY Actions	C Quarterly	
☑ ISS <u>U</u> E Actions	Date Range	
SALE Actions	All Dates	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.

	E:07/16/2 , For Act		PES(PO, B	UY, ISSUE, SAL	ACTION ITEM E, MAKE, LABOR), SO						
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		000000008	NGF INTERTUBE (N	****	07/17/2000	07/17/	2000		
BUY	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		
BUY	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>N</u>ew 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.

		H 1003								
3/09/20	LEDGER		SACTIONS						DAGE NO:1 DRTRAN. TRX	
RANS	DATE	CHECK	DESCRIPTION	COMPANY	INVOICE# F	ELATED DOC#	ACCT		DEBIT AMT	CREDIT ANT
00001 03	/07/07		STARTING BUSINE				10100000	CASH ON HAND	5000.00	0.00
00001 03	/07/07		STARTING BUSINE				10200000	BANK	10000.00	0.00
00001 03	/07/07		STARTING BUSINE				12100000	STOCK INVENTORY	6000.00	0.00
00001 03	/07/07		STARTING BUSINE				25100000	STARTING CAPITAL	0.00	21000.00
00002 03	/07/07		STARIING BUSINE				13200000	SHOP EQUIPMENT	15000.00	0.00
00002 03	/07/07		STARTING BUSINE				11100000	ACCTS RECEIVBLE	4000.00	0.00
00002 03	/07/07		STARTING BUSINE				15100000	PREP EXPENSES	1000.00	0.00
00002 03	/07/07		STARTING BUSINE				25100000	STARTING CAPITAL	0.00	20000.00
00003-03	/07/07		STARTING BUSINE				25100000	STARTING CAPITAL	25000.00	0.00
00003 03	/07/07		STARTING BUSINE				24100000	SHOP EQUIPMENT	0.00	25000.00
00004 03	/07/07		STOCK INV ADJUS				40100000	START INVENTORY	6000.00	0.00
00004 03	/07/07		STOCK INV ADJUS				12100000	STOCK INVENTORY	0.00	6000.00
00005 03	/07/07		KMART				41100000	PURCHASE	3000.00	0.00
00005 03	/07/07		KMART				41400000	FRE IGHT	400.00	0.00
00005 03	/07/07		KMART				20100000	ACCTS PAYABLE	0.00	3400.00
00006 03	/07/07		P GOMEZ				50100000	WAGES	500.00	0.00
00006 03	/07/07		P GOMEZ				22100000	PAYROLL TAX PAY	0.00	50.00
00006 03	/07/07		P GOMEZ				10200000	BANK CHECK	0.00	450.00
00007 03	/07/07		STARTING BALANC				11100000	ACCTS RECEIVABLE	15000.00	0.00
00007 03	/07/07		STARTING BALANC				10200000	BANK CHECKING	12000.00	0.00
00007 03	/07/07		STARTING BALANC				61500000	RENT	1000.00	0.00
00007 03	/07/07		STARTING BALANC				60100000	ADVERTISING	50.00	0.00
00007 03	/07/07		STARTING BALANC				61000000	INSURANCE	700.00	0.00
00007 03	/07/07		STARTING BALANC				61400000	OFFICE EXPENSE	8.00	0.00

# 3.1.17.1.2 General Ledger Transactions Report for Transaction Lesson Continued

Software A 3/09/2007 10: ENERAL LEDGES	49:44 AM	1077088					PAGE NO:2 PRITRAN, FRX	
TRANS# DATE		DESCRIPTION	COMPANY	INVOICE# RELATED DOCS	ACCT		DEBIT ANT	CREDIT ANT
00007 03/07/07		STARTING BALANC			10200000	BANK CHECKING	25.00	0.00
00007 03/07/07		STARTING BALANC			12100000	STOCK INVENTORY	1500.00	0.00
00007 03/07/07		STARTING BALANC			70100000	DEPRECIATION EXP	125.00	0.00
00007 03/07/07		STARTING BALANC			30100000	BUSINESS INCOME	0.00	15000.00
00007 03/07/07		STARTING BALANC			11100000	ACCTS RECEIVABLE	0.00	12000.00
00007 03/07/07		STARTING BALANC			10200000	BANK CHECK	0.00	1000.00
00007 03/07/07		STARTING BALANC			10200000	BANK CHECKING	0.00	50.00
00007 03/07/07		STARIING BALANC			10200000	BANK CHECK	0.00	700.00
00007 03/07/07		STARTING BALANC			10100000	CASH ON HAND	0.00	8.00
00007 03/07/07		STARTING BALANC			80100000	OTHER INCOME	0.00	25.00
00007 03/07/07		STARTING BALANC			42100000	ENDING INVENTORY	0.00	1500.00
00007 03/07/07		STARTING BALANC			14100000	DEPREC ACCRUED	0.00	125.00
							106308.00	106308.00

# 3.1.17.2 Profit and Loss Report for Transaction Lesson

Print Preview           [4]         4         №         >>         100%         ▼	¥ 8		, ,
PROFITANDLOSS. INX			Page: 1 (Detail Repo:
Software Arts 03/09/2007 10:52:41 AM			
YTD PROFIT AND LOSS REP	ORT FOR 03/2007		
ACCOUNT®	DESCRIPTION	CURRENT MONTH	YTD
REVENUE		15000.00	15000.0
COST OF GOODS SOLD		-7900.00	-7900.0
COST OF LABOR		-500.00	-500.0
OPERATING EXPENSES		-1758.00	-1758.0
WRITE OFF EXPENSES		-125.00	-125.0
OTHER REVENUE		25.00	25.0
OTHER EXPENSES		0.00	0.0
INCLE THES		0.00	0.0
RETAINED EARNING TOTAL		4742.00	4742.

# 3.1.17.3 YTD Expense and Revenue Report for Transaction Lesson

NZ INTERST INTERY INTERTRY	Id         d         €           Stanth         15000.00         25.00           15025.00         6000.00         3000.00           400.00         -1500.00         7900.00           500.00         500.00         500.00	VID           15000.00           25.00           15025.00           6000.00           3000.00           4000.00           7900.00           7900.00		VTD Budget 8000.00 0.00 8000.00 0.00 0.00 0.00 0.00 0.00 0.00 8000.00	₩ar 187.50 0.00 187.81 0.00 0.00 0.00 0.00 0.00 0.00	VTE % Var 187.50 0.00 157.81 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
INTERIST	Month 15000.00 25.00 15025.00 6000.00 3000.00 -1500.00 7900.00 500.00	15000.00 25.00 15025.00 6000.00 3000.00 400.00 -1500.00 7900.00 800.00	8000.00 0.00 8000.00 0.00 0.00 0.00 0.0	8000.00 0.00 0.00 0.00 0.00 0.00 0.00 0	187.80 0.00 187.81 0.00 0.00 0.00 0.00	187.80 0.00 187.81 0.00 0.00 0.00 0.00 0.00
INTERIST	25.00 15025.00 6000.00 3000.00 400.00 -1500.00 7900.00 500.00	25.00 15025.00 6000.00 400.00 -1500.00 7900.00 500.00	0.00 8000.00 0.00 0.00 0.00 0.00 0.00 0	0.00 8000.00 0.00 0.00 0.00 0.00 0.00 0	0.00 187.81 0.00 0.00 0.00 0.00 0.00	0.00 187.81 0.00 0.00 0.00 0.00 0.00 0.00
NTORY	15025.00 6000.00 400.00 -1500.00 7900.00 500.00	15025.00 6000.00 800.00 400.00 -1500.00 7900.00 500.00	8000.00 0.00 0.00 0.00 0.00	8000.00 0.00 0.00 0.00 0.00	187.81 0.00 0.00 0.00 0.00 0.00	187.81 0.00 0.00 0.00 0.00
	6000.00 3000.00 400.00 -1500.00 7900.00 500.00	6000.00 3000.00 400.00 -1500.00 7900.00 500.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	3000.00 400.00 -1500.00 7900.00 800.00	3000.00 400.00 -1500.00 7900.00 500.00	0.00	0.00 00.00 00.0	0.00	0.00
INTRY	400.00 -1500.00 7900.00 500.00	400.00 -1500.00 7900.00 500.00	0.00	00.0 00.0 00.0	0.00	0.00
INVENTRY	-1500.00 7900.00 500.00	-1500.00 7900.00 500.00	0.00	0.00	0.00	0.00
INVENTRY	7900.00	7900.00 800.00	0.00	0.00	0.00	0.00
	800.00	\$00.00				
			\$000.00	\$000.00	10.00	10.00
	500.00					
		500.00	5000.00	5000.00	10.00	460.50
	50.00	50.00	0.00	0.00	0.00	0.00
NERAL.	700.00	700.00	0.00	0.00	0.00	0.00
XS	8.00	8.00	0.00	0.00	0.00	0.00
	1000.00	1000.00	0.00	0.00	0.00	0.00
	1758.00	1758.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00
EXPENSE	125.00	125.00	0.00	0.00	0.00	0.00
	125.00	125.00	0.00	0.00	0.00	0.00
	4742.00	4742.00				
	88	ES 8.00 1000.00 1758.00 0.00 0.00 EXPENSE 125.00	ES 8.00 8.00 1000.00 1000.00 1758.00 1758.00 0.00 0.00 EXPENSE 125.00 125.00	ES         8.00 1000.00         8.00 1000.00         0.00 0.00           1758.00         1758.00         0.00           0.00         0.00         0.00           0.00         0.00         0.00           125.00         125.00         0.00	ES         8.00 1000.00         8.00 1000.00         0.00 0.00         0.00 0.00           1759.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           125.00         125.00         0.00         0.00	ES         8.00 1000.00         9.00 1000.00         0.00 0.00         0.00 0.00         0.00 0.00           1758.00         1758.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00           125.00         125.00         0.00         0.00         0.00         0.00

# 3.1.17.4.1 Trial Balance Report for Transaction Lesson

Preview - GLTRIAL.FRX	BALANCE 03/2007 (03/01/2		2072	-
ACCT	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	ACCNT/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	ACCNTS/PAYAB.VENDORS	LC		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 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. FEDERAL.	LC		0.00
3100000	MORTGAGES	LL		0.00
4100000	NOTES PAYABLE	LL		25000.00
5100000	STARTING CAPITAL			16000.00
6100000	CAPITAL INCREASE	QN QN		0.00
7100000		~	0.00	0.00
8100000	CAPITAL DECREASE OTHER INVESTMENT	QN	0.00	0.00
9100000		QN	0.00	0.00
9900000	COMPANY TAXES YTD RETAINED EARNINGS	QN	0.00	0.00
		QR DN		15000.00
0100000	BUSINESS INCOME	RN		0.00
0150000	FREIGHT INCOME	RN	0.00	0.00
0850000	SALE DISCOUNT	EG	0.00	
0900000	REFUNDS	RN	0.00	
0100000	STARTING INVENTORY	EG	6000.00	
0150000	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.FR		007 70 00 (01 (00	0.51	
GENERAL LEDGER TH	RIAL BALANCE 03/2007 (03/01/2	007 10 03/31/20	107)	
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	OFFICE SUPPLIES	EN	8.00	
61500000	RENT	EN	1000.00	
61600000	REPAIRS	EN	0.00	_
61700000	SHOP SUPPLIES	EN	0.00	
			0.00	
61800000	PROMOT/ENTERTE INMENT.	EN	0.00	
61900000	TRAVEL	EN		
62000000	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	

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<b>Software Arts</b> 03/07/2007 04:38:34 PM		PAGE NO PRDEBII (Detai	
BALANCE SHEET 03/2007 (03/01/2007 T	0 03/31/2007)		
ASSETS			
CURRENT ASSETS			
10100000	CASH ON HAND	+	4992.00
10200000	BANK CHECKING ACCOUNT	+	19825.00
10300000	BANK SAVINGS ACCOUNT	+	0.00
11100000	ACONT/RECVB. CUSTOMERS	+	7000.00
11200000	ACONT/RECVSOTHERS	+	0.00
11900000	A/RBAD DEBTS RESERV	-	0.00
12100000	STOCK INVENTORY	+	1500.00
		TOTAL	33317.00
LESS DEPRECIATION			
14100000	DEPRECIATION ACCRUED	-	125.00
14200000	AMORTIZATION ACCRUED	-	0.00
		TOTAL	-125.00
FIXED ASSETS			
13100000	SHOP EQUIPMENT	+	0.00
13200000	FURNITURE & FIXTURES.	+	15000.00
13300000	TRANSPORTATION EQUIP.	+	0.00
13400000	LEASHOLD EQUIPMENT	+	0.00
13500000	LAND	+	0.00
13600000	BUILDING	+	0.00
		TOTAL	15000.00
OTHER ASSETS			
15100000	PREPAID EXPENSES	+	1000.00
		-	
		TOTAL	1000.00
	T	TAL ASSETS	49192.00
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# 3.1.17.5.2 Balance Sheet Continued

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Software Arts		PAGE NO:1	
03/07/2007 04:52:08 PM		PRCREBIT.	
		(Detail	Report)
BALANCE SHEET 03/2007 (03/01/2007	7 TO 03/31/2007)		
LIABILITIES			
CURRENT LIABILITIES			
20100000	ACONTS/PAYAB.VENDORS	+	3400.00
20200000	ACONTS/PAYABLE OTHERS	+	0.00
21100000	SALES TAX	+	0.00
22100000	PAYROLL TAX. F.W.T.	+	50.00
22110000	PAYROLL TAX. FICA	+	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.W.T.C.A	+	0.00
22150000	PAYROLL TAX.S.U.I.C.A	+	0.00
22160000	PAYROLL TAX.E.T.T.CA.	+	0.00
22 90 000 0	INCOME TAX. FEDERAL.	+	0.00
22910000	INCOME TAX. STATE.	+	0.00
		TOTAL	3450.00
LONG TERM LIABILITIES			
23100000	MDRTGAGES	+	0.00
24100000	NOTES PAYABLE	+	25000.00
		TOTAL	25000.00
EQUITY			
25100000	STARTING CAPITAL	+	16000.00
26100000	CAPITAL INCREASE	+	0.00
27100000	CAPITAL DECREASE	-	0.00
28100000	OTHER INVESTMENT	+	0.00
29100000	COMPANY TAXES		0.00
		TOTAL	16000.00
29900000	YTD RETAINED EARNINGS	+	4742.00
		TOTAL	4742.00
	TOTAL LIABILITY +	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\*. 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\*. 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:

000000001,47.00 000000010,53.00 890000000,40.00

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:

PtComm3					
File Transfers View Help					
		FORM.DAT is the file on the PT630 so Right-click to drag a	you create canner. nd drop the		
C:\	1 .	'Form.DAT' file to a lo		e	
Name	Size	server or your co	mputer.		
<ul> <li>         Inves         Floppy (A:)         System (C:)         OVD Drive (D:)         Solution (D:)         CD-RW Drive (E:)         </li> </ul>		Name	Portable	AT	Size Typ
		drive.	A confir	rmation window a	rrears. Just
🕂 🧝 Pdf on 'Asp700\E\Saw' (P:)			press 'C	DK' or change the	destination
	-			location.	
	ransfer File Between PC a	and Portable			
	From: A::\FORM.DA	1			
	To: C:\		r-e in	630 - ? (A::\) 630 - PT630 (A::\) 1fo 5KB	
	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. 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::\			×
A::\FORM.DAT Name Portable FORM.DAT	The PT630 will emit a message statin Of Press any You will also note t PTComm3, display you know every Just press any key	ng "UPLOADING K! y key" that the programm, /s messages to let thing went OK.	
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:\FC File size: 52 Uploaded bytes: 52 Done	RM.DAT"		> <
	CON		1

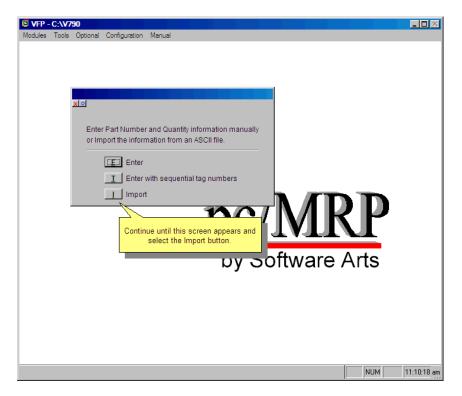
#### 3.2.6 Import the downloaded data

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	
Modules Tools Optional Configuration Manual	
Physical Inventory Counts       s         t Step if you have WIP)       s         t Step if you have WIP       s         t Jotal the Area Cot       If Area-16         t Jotal the Area Cot       If Area-18         t Jotal the Area Step if you have will allow you <th></th>	
	NUM

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'.

VFP - C:\V79		
Modules Tools	Optional Configuration Manual         1) Type in, Find, or use a default data file name data here.         Image: Cocation and Name of the ASCII file to Import         Image: Cocation and Name of t	
	NUM 11:1	4:08 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):

VFP - C:\V790
Modules Tools Optional Configuration Manual
xIO
2 errors were detected during the Import.
QkDisplay Print
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.

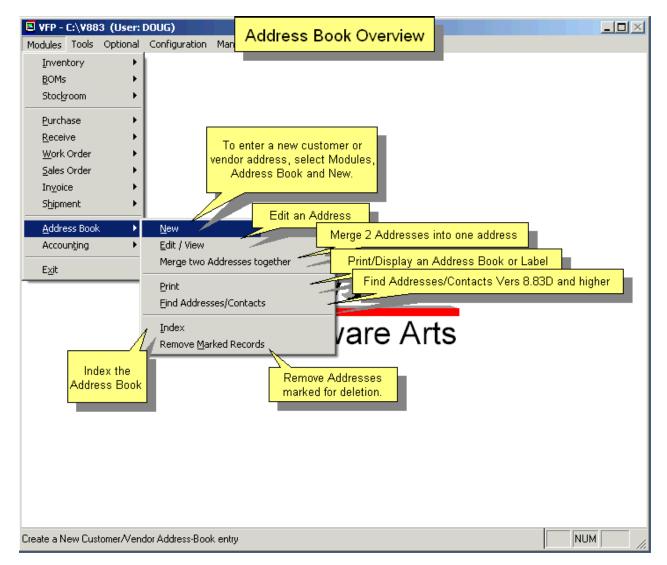
Correct any errors and re-process individually or in the next import. Now continue as described in Section 6.5 for your Physical Inventory.

#### 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 Modules, Address Book, and New. 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

Longer T	Windows - Version 8.64D Optional Configuration M Address E	Book New/	Edit	
	dress ID o inserted ddress Creation		Customer's Balance Due	
Addr Id		Addr Type Stat		
ABC002		CUS 🔽 APF	0.00	
Company	Contacts Sales Contact Info	CUS DIS ping	Documents Que coks®	
Attention	Liohn Cmith		The Customer's Average	
Address	123 Main S Select Address Type and	VAR VE <mark>Ua</mark>	ys to Pay will display here red if any invoice is past he Invoice's Due Date ).	
City	San Jose you to create Type and	e-Mail jsm		
State / Zip	CA Status Lists.	Website www.a	abcman.com	
County		C-Card	Exp /	
Country	USA	Cre	dit Cards 🔲 🗖 Do Not Call	
Telephone	333-444-0900 Ext	Serial #	Do Not Fax	
Faxno	333-444-0901 St	tart Date 05/14/	/2012 Do Not e-Mail	
Comment			The Address Type may contain CUS for customer, EMP	
	ieen with us for over 20 years ir main contact		for employee, VEN for vendor, PRO for prospect, etc.	
"BAD" is appears         Probation         Labels       Logbook         Labels       Logbook			The Status field contains the status of the account. If "BAD" is selected, a red flag reading 'Bad Account' appears on the top left of the Address. If PRB for Probation is selected as an Address Type, a red flag reading 'Probation Account' appears on the top left of the Address. If DIS is selected then this vendor is discontinued and their information will not be populated	
The Address Account Type. (You can change the contents of this list in Configuration, Se				

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" (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 more information about the Status field, see Section 4.3.

The **Balance** field contains the current balance for the customer. 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.

Under the top row of fields appear the tabbed pages.

#### 4.2.4 Enter Company Information on Company Tab Page

Dec/MRP for Modules Tools		vs - Version 8.6 al Configuration			ess Booł w/Edit	<b>(</b>			<u> </u>
💌 A	ddress I	Book New Ad	dress Crea	tion					×
Adi	dr Id	Company Nar	ne		Addr Type	e Statu	is Balance		
AB	C002	Company Tab	TURING		CUS 🖣	APP	•	0.00	
Co	ompany	Contacts	Sales C	ontact Info 📗	Billing \ Shi	pping	Documents	QuickBooks®	
At	ttention	John Smith		Control, Left Click will	Contact	John Si	mith		* Email
A	ddress	123 Main Stre	et	display the	Title	VP Pure	chasing		Button
				website	alutation	Mr.			
	City	San Jose 🔪			e-Mail	jsmith@	gabcman.com	Ē	
Sta	ate / Zip	CA 🛝		95119	Website	www.at	bcman.com		
	County		not enter comma		C-Card			Ехр /	
(	Country		er the city		-	, C <u>r</u> ed	lit Cards	Do Not Call	
Tele	ephone	333-444-0900	_	Ext	Serial #			Do Not Fax	
	Faxno	333-444-0901			Start Date	05/14/2	2012	Do Not e-Mail	
с	omment	, ts:						Credit Card	_
		peen with us for	over 20 ye	are 🔪 🦳				ton to store it Cards and	]
Jo	ohn is ou	r main contact. ۲			er enters a n		ress not	the C-Card	
	Unlimited Comments and the phone number already exists in another address, pc/MRP will warn the user and allow him to Save the new record or Re-edit the record. Versions 9.03B and higher.								
L	_a <u>b</u> els	Logbook	× 🗗 (	record. V	ersions 9.03	B and h	igher. Ok	* Uses Defa Applicatio Outlook or Express.Se	n such Outlook e IT 101
Contacts (c:\pcm	nrpw864\v	contacts.dbf)			Record: EOF/	3	Record Unloc	keu Slide Sho	JW 0.1

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:

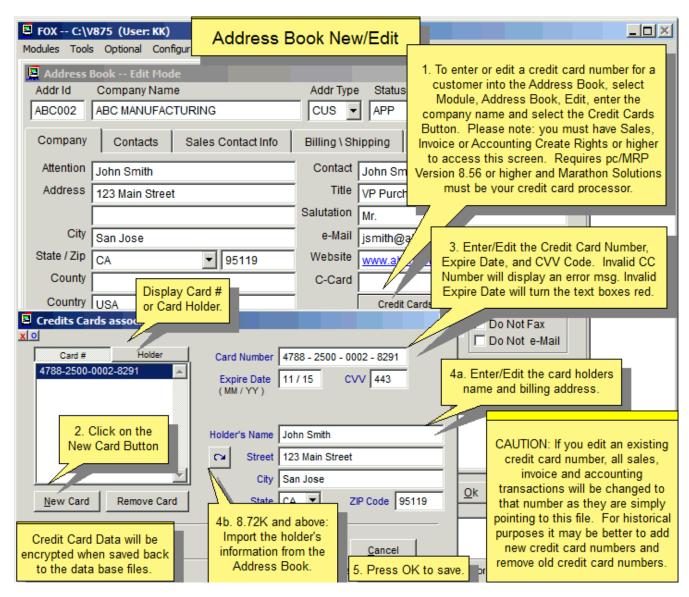
upper & lowercase alpha 65(A)-90(Z), 97(a)-122(z), numeric 0-9, and these special characters: ,./<>?;':()[]{}-=\_+!@#\$%^&\*''

The **Email** button **E** 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



**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  $\bigcirc$  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

E Address book Edit Mo		
ABC002 ABC Manufactur Company Contacts Sale	CUS  APP O.00 Billing \ Shipping Documents QuickBoo	ks®
Contacts New Delete Bill Blake VF) Jim Johnsy of (President) Unlimited contacts per address	Title       Unlimited Notes per Contact. Versions 8.81A and higher will display View Contact Notes in bold if there are notes.         Last Name       Johnson         Position       President         Contact Methods       View Contact Notes         Contact Methods       View Contact Notes         New,Method       Delete Method         Method       Value         Phone       333-333-2222 x 21         Skype       ijohnson_abcmfg         View       Output	
La <u>b</u> els Logbook 🔪 🚺		
these legacy contacts, Mark them	der address ID was deleted. A new address contains the same address ID. n for deletion, Set an Admin Lockout, Select Modules, Address Book and Rem ts Contacts by First Name + Last Name instead of by Title + First Name + Las	nove Marked

#### **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 (version **8.81C** and higher) 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

Modules	•	rsion 8.96E figuration Manual	Address Book New/Edit		Tax Code Entities are can be set and auto updated by selecting Accounting,
-	uler Enabled ]				Tax Code Entity.
	📮 Address Book	Olloit	on Sales		
	·		t Info Tab	Status Balance	
	ABC001 ARRO	WELECTRO	cus 🗸	APP 👤 🖊	0.00 Taxld C(15)
	Company Co	ntacts Sales Conta	ect Info   Billing \ Shipp	ing Documente	QuickBool Form1099 L(1)
	Salesman	ROBERT BILL SALESI	МАР Т	ax ID #	TaxR N(8,4) TaxType C(1)
pc/MRP will auto insert:	alesman email	ISM@ABCTIRE.COM	Ta	x Code CA02	IRS Form 1099
Salesman	Commission %	10.00 Divisi	on	Tax % 0.0000	Tax Type 8.94A
Commission Division	Region	CALFORNIA	· · ·	Fax Type Resale	or higher
Region Territory	Territory	SOUTHWEST	Referred by	· · · · · · · · · · · · · · · · · · ·	
Discount Terms	Sales Level	1 Discount 0	.00 Source	indde oodinar	All Drop Down List
Ship Via FOB	Terms	2% 10Days Net 30Day	/s▼ Purpose	+	Boxes are
Related Doc Tax ID	Ship Via		Priority		definable using
Tax Code	FOB		▼ Interes		Configuration,
Tax % Tax Type	Related Doc #	RELATED DOC/CONT	Concerr	۱ <u> </u>	Option 52.
into POs ano Sales	Resale #				Your Customer's
Orders where	Credit Limit	1 0.00	Supplier ID		Supplier ID Code
applicable	Yearly Quota	0.00	⊏ Redn	ires barcode data ident	for your company
Configuration, Settings and Utilities, Option 78 can be configured to insert the division into sales and purchase orders from the Partmaster or the Address Book.					

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. Page 54

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 (**8.81D** and higher) 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

Pc/MRP for Windows - Version 9.05D         Modules Tools Options         Click to insert         Click to insert main         Company         Address book.         Address         Click to         Insert main         Company         Address         Options         Click to         Insert main         Company         Address         Documents         QuickBooks®         QuickBooks®         Image: Company         I
Image: Second state of the

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** Swill display a map of the billing and shipping addresses.

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

WFP - C:\V872 (User: DOUG) Modules Tools Optional Configuration	Book New/Edit
	1. Click on the Documents Tab         Addr Type       Status         Balance       Documents Tab         CUS       ▲ APP         Billing \ Shipping       Documents         Quict Books®         Display:       Invoices/
0000001         000104         0001         Y         WHEEL ASSY         10           0000002         000102         0001         REAR WHEEL AS10         0000011         000101         000011         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000001         000000         0000000         0000000         0000000         0000000         0000000         0000000         0000000         0000000         0000000         000000000         0000000         0000000         0000000         00000000         00000000         00000000         00000000         00000000         00000000         000000000         000000000         00000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         000000000         00000000000         000000000000         000000000000         00000000000000000         00000000000000000000000         000000000000000000000000000000000000	ate Ship       Sale Price Amt Paid       Date Paid       Sales Quotes         0/08/2012       2000.000000       2000.00       08/20/2012       Sales Orders         0/01/2012       4000.00000       4000.00       10/04/2012       Invoices         0/05/2012       2000.000000       0.00       10/01/2012       RFQ/PO Requests         0/05/2012       2000.000000       0.00       1       Purchase Orders         reen       Red       indicates       Open and       over 60 days         over 60 days       Vellow indicates paid       after 60 days or more or       open and over 60 days         old. (pc/MRP Version       8.72B and higher).       Vellow       Vellow
Contacts (c:\v872\contacts.dbf)	Record: None Record Unlocked NUM

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 8.64D     Address Book New/Edit
Indices       Contact       Edit Mode         Addr Id       Company Name       Addr Type       Status       Balance       QuickBooks Tab         ABC002       ABC MANUFACTURING       CUS       APP       60000.00       CuickBooks@         Company       Contacts       Sales Contact Info       Billing \ Shipping       Documents       QuickBooks@         Quick Books Ids       Customer Id       ABC MANUFACTURING - (C) - ABC002       Click here to select a Vendor Name from QuickBooks (pc/MRP field: qbcustid)         Vendor Id       ABC MANUFACTURING - (M) - ABC002       If an invoice or receiver for this address is exported to QuickBooks, if QuickBooks does not contain an address with this name, the address will be exported to QuickBooks.
La <u>b</u> els Logbook 🔪 🗊 🥜 DeleteQkancel

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

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

pc/MRP for Windows - Version 8.64D     Address Book New/Edit
Address Book New Address Creation Addr Id Company Name ABC 002 ABC MANUFACTURING Cus APP 0.00 Company Contacts Sales Contact Info Billing Address Attentio Address
Labels Logbook 🔊 📴 🥒 Delete 🛛 Ok Cancel
Click on the Labels Button to to print mailing labels for this address. Contacts (c:\pcmrpwto

Also see Section 4.5 about printing address labels.

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

pc/MRP for Windows - Version 8.64D     Address Book New/Edit						
Address Book New Address Creation         Addr Id       Company Name         Addr Id       Company Name         ABC002       ABC MANUFACTURING         Company       Contacts         Sales Contact Info       Billing \ Shipping         Documents       QuickBooks®         Attention       John Smith         Address       123 Main Street         City       Sale         File       Edit Search View Encoding Language Settings Macro Run TextFX Plugins         Window ?       X         State / Zip CA       County         County       Imagection IxX         Imagection IxX       addressist IxX         ABC 002.txt       X         County       Imagection IxX         Imagection IxX       addressist IxX         ABC 002.txt       X         County       Imagection IxX         Imagection IxX       addressist IxX         ABC 002.txt       X         Imagection IxX       addressist IxX         ABC 002.txt       X         Imagection IxX       addressist IxX         ABC 002.txt       X         Imagection IxX       addressist IxX         ABC 002.txt       X						
Ln : 1 Col : 1 Sel : 0 Dos\Windows ANSI INS						
Labels Logbook. Delete Ok Cancel 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.						

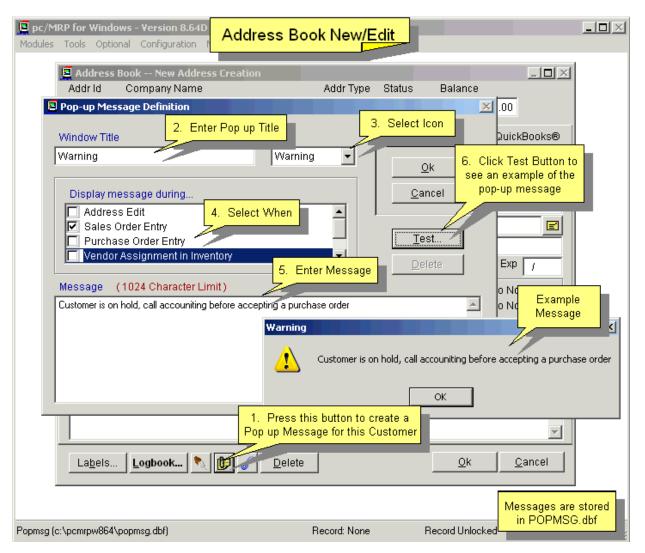
The **Logbook** button at the bottom of the page will allow you to enter a logbook for each customer and vendor to record conversations, commitments, etc. Settings and Utilities **Option 80** can set pc/MRP to open up a Notepad or Word file. Pressing the F5 key in Notepad will automatically enter the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

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

pc/MRP for Windows - Version 8.64D     Modules Tools Optional Configuration I	ok New/Edit
Address Book New Address Creation Addr Id Company Name ABC002 ABC MANUFACTURING	Addr Type Status Balance
Relateditems	Record: None Exclusive

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

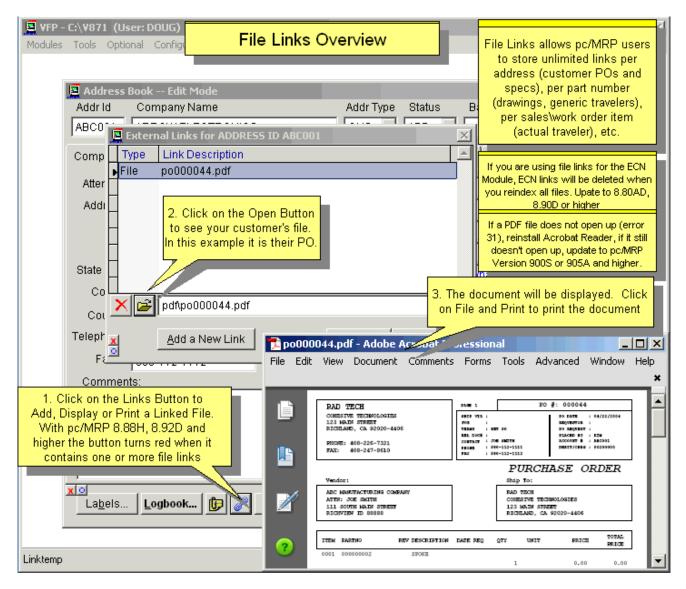
#### 4.2.15 Enter a New Address, Step 12, Create Pop Up Messages for the Address



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.

#### 4.3 Edit an Address

Select Address Book, Edit/View.

and Edit Preferences. Save Settin Color Cod Go Top Go Bottom	Search y way to ess. k Datab: k Datab: sort Order (Account ID, Company Name, Telephone Number, Serial Number) company Name 2. Enter first company Name	Queried Search Include No Selections Search Search
Right Click Code	Company Name	Attention:
Color Code to diaplay the BC001	ARRO 4. Select Address	ATTN: JOESPH CARTRIGHT THE 3R
display the 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
Action C v	jew jdit	<u>Ok</u> <u>C</u> ancel
Select Edit or View, Save Settings will store your preference		

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. In Versions **8.82** and higher, 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.

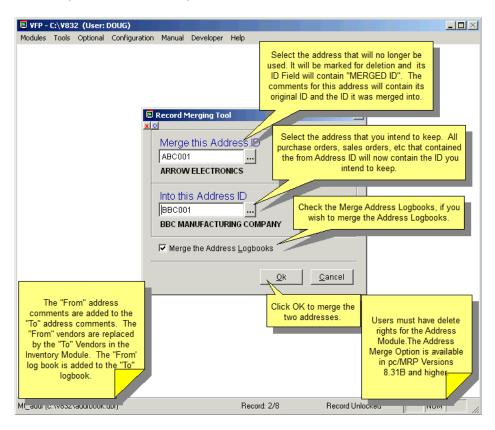
Use the **Delete** button to mark a record for deletion. Use the Undelete button to unmark the record for deletion. To permanently remove marked records from the database table, set an administrative lockout, and then select Address Book, Remove Marked Records.

Once you are finished editing the address, press the OK Button down at the bottom of the Address Book screen. Page 64 pc/MRP V9.10

#### 4.4 Merge Addresses

#### 4.4.1 Merge Two Addresses Together

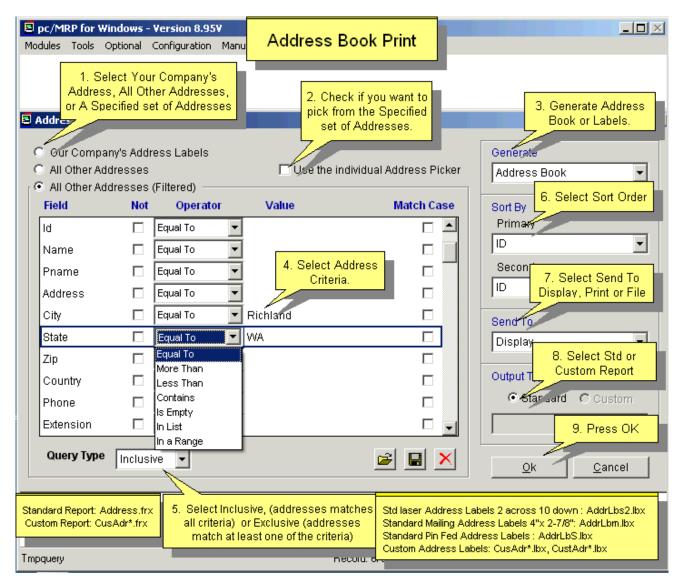
Select Address Book, Merge two Addresses together



4.4.2 From Address, After the Merge

	al Configuration May you would se	t the From Address, se the following.	The documents, invoices, receivers,				
AND DO THE OWNER OF	Book Edit Mode		etc. report to the merged address and no longer report to this address.				
Addr Id	Company Name	Addr Type Status	and no longer report to this address.				
MERGED	ARROW ELECTRONICS	CUS 🔻 APP 💌	0.00				
	Address ID has been		cuments QuickBooks®				
Att <mark>ch</mark> a	anged to MERGED ID	Contact JOE SMITH					
Add	1234567 SUUTHIVEST MAIN STREET	Title VP PURCHA	SING				
		Salutation MR.					
City	MOUNTAIN VISTAS	e-Mail sales@arrov	vnac.com 🖃				
State / Zip	CA 🔽 12345-1234	Website http://www.ar	rownac.com				
County		C-Card	Exp /				
Country	USA	Crodit Core					
Telephone	408-248-6445 Ext		ess ID and the merged erted into the comments.				
Faxno	980-112-1112	Start D	arted into the comments.				
Comments:							
Was Addr	Was Address ID "ABC001". Merged into Address ID "BBC001"						
The original Logbook file has been moved to the merged address.							
La <u>b</u> els	Logbook 🔪 🍺 🥒 Un-Delet	This record is marked for deletion	<u>O</u> k <u>C</u> ancel				
General comments or note	Ş						

### 4.5 Address Reports and Labels



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.

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 for example 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, Addres Contact Person Name e Contact Phone, Email e	ss, Main Phone# etc. etc.	Method Value Note	Enter a partial description of any of the following:            • All of these words         • Any of these words         • Any of these words         • QK         • QK         • Qancel         • QK         • Qancel         • Cancel         • Cancel	
Print Preview - CONTDET.FRX				
PAGE ND. 1 CONTACT QUERY RESULTS 03/02/2014 09:05:56 AM COMPANY LAST NAME FIRST NAME METHOD VALUE NOTE				
BBC001 Keneray John	enail	it@outsideIT.net		[

**Note:** Versions **8.83C** and lower only allowed the search in the Address Book, and the search was inclusive and case-sensitive.

#### 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.

#### 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>

Enter New Part Number	rsion 9.05D	. <u> </u>
Inventory BOMs Edit a Part Number Purchase Receive Work * Find Parts Sales Of Invoice Mark-up Sale Prices Accounting	Inguistation     New     Change a Part Number's Part Number       Edit / View     Merge two Part Numbers into a Single Part Number       Change Part Number     Merge two Part Numbers into a Single Part Number       Merge two Part Numbers together     Print/Display Inventory Reports       Eind Parts     Print/Display Inventory Reports       Beports     Print/Display Inventory Labels       Labels     Roll up Costs for Assemblies       Sale Price Mark-up     Take a Physical Inventory or Cycle Count       Physical Inventory     Audit and or Correct Inventory Data	
Scrap everyting in an Inventory Area	Audit - Inventory Data Audit - Inventory Data Audit - WIP Quantities Index Remove Marked Records Remove Part Numbers that have been marked for Deletion	
	* We recommend using Edit, select the Indexed Search Tab to look-up Part Number, Description, Model Number, Manufacturer or select the Queried Search Tab and lookup on ANY field in the partmast database	
Inventory (Partmaster) Module	NUM	/

#### **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.

If your part numbers are larger than 15 characters and you are on a version lower than 8.95, consider upgrading to Version 8.95 or higher which can contain part numbers up to 31 characters wide. There is no cost for the upgrade provided you are on a current support contract.

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 salesman to pick the correct part or description of the assy he 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 salesman enters a sales order he 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. Since the part number size could get larger than 15 characters long, consider using pc/MRP versions **8.95** and higher.

#### **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.

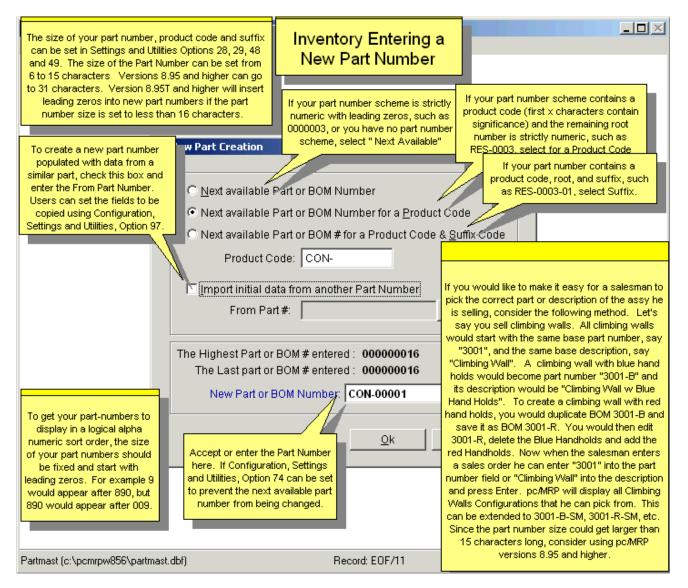
The stockroom's Issue and Receive options were used rather than Convert Parts to Assemblies.

#### 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

Inventury	Dopt II C	nventory Data Entry Screen Type, Re∨ Description	2. Enter Revision (revlevel). Can accept alpha numeric values. The ECN Module can set the increment
Costs:       Ave       Select a description template       Requires       Optional         Stan       BEARING, XXX*'OD, XXXID, MATL       3. Enter       Optional       Alternate         CAP, XXX UF, XXX Volts       3. Enter       Description       Module         On C       On Der       BESISTOR, XXX Ohms, XXX Volts       Description       Module         MRP Ava       Optional       gre-defined       description from         Minimun       QK       Qancel       9       STAGNG         Maximum Qty       Weeks Onhand       Part Type from the Type Drop Down List Box.         Assembly (part_assy = "A", outsource = F.)       Part – Inventory (part_assy = "A", outsource = F.)         Part – Inventory (part_assy = "L", outsource = F.)       Labor Outside (part_assy = "L", outsource = T.)         Labor Outside (part_assy = "L", outsource = T.)       Labor Outside (part_assy = "L", outsource = T.)	Part # 000000001 Type Part - Inventory Description BEARING, 3" OD × 1" ID		yed Currency BASE CURRENCY
Minimun       9       STAGING         Maximum Qty       9       STAGING         Minimum weeks of Inventory       Weeks Onhand       Part Type from the Type Drop Down List Box. Assembly (part_assy = "A", outsource = .F.)         Stock & Issue Unit       EACH       Date of Last PI / CC         Lead Time (Days)       2       Part – Non Inventory (part_assy = "P", outsource = .F.)         Labor Inside (part_assy = "L", outsource = .F.)       Labor Outside (part_assy = "L", outsource = .T.)	Costs:       Ave         Stan       Select a description template         BEARING, XXX "OD, XXX ID, MAT         CAP, XXX uF, XXX Volts         Con C         On C         On Der         Estimated U	3. Enter Description (descript) or click on the Description Button to insert a pre-defined description from	Requires Optional Optional Alternate Currency
Outside Labor can be purchased but not sold	Minimum Qty Minimum Weeks of Inventory Weeks Onhan Stock & Issue Unit EACH Date of Lead Time (Days) 2	nd 9 STAG 9 STAG Part T Asser Part – In Part – Non Labor I Labor C	ype from the Type Drop Down List Box. mbly (part_assy = "A", outsource = .F.) ventory (part_assy = "P", outsource = .F.) Inventory (part_assy = "P", outsource = .T.) inside (part_assy = "L", outsource = .T.) outside (part_assy = "L", outsource = .T.) a Labor can be sold but not purchased

**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: (Note: / was not acceptable in versions **8.90G** and below.)

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: ° © ® |  $\frac{1}{4}$   $\frac{1}{2}$   $\frac{3}{4}$  ±

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. PaperTowels, Office supplies, etc. Non-inventory part numbers were added to pc/MRP to increasecompatibility with QuickBooks to be used as pc/MRP's accounting module. Classifying a partas non inventory only effects what type of account gets debited when accounting gets thevendor invoice and the receiver is posted to the general ledger. Also you can select to includenon-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 transaction	Qty can be adjusted using Stockroom A transaction

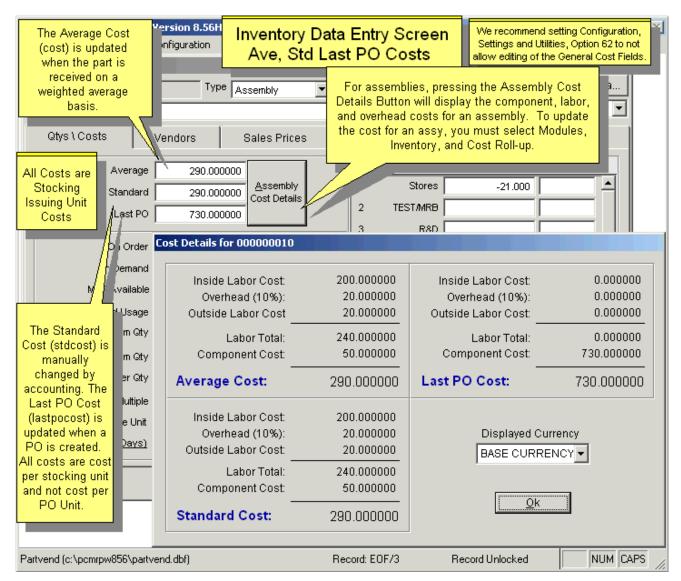
Enter the **Revision** Level (revlevel) of the part or assembly, i.e. A, B, C etc. If the part or assembly is changed such that it is still backwards compatible roll the Rev. If the part or assembly is not backwards compatible, change the part number. pc/MRP's optional ECN module will automatically increment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



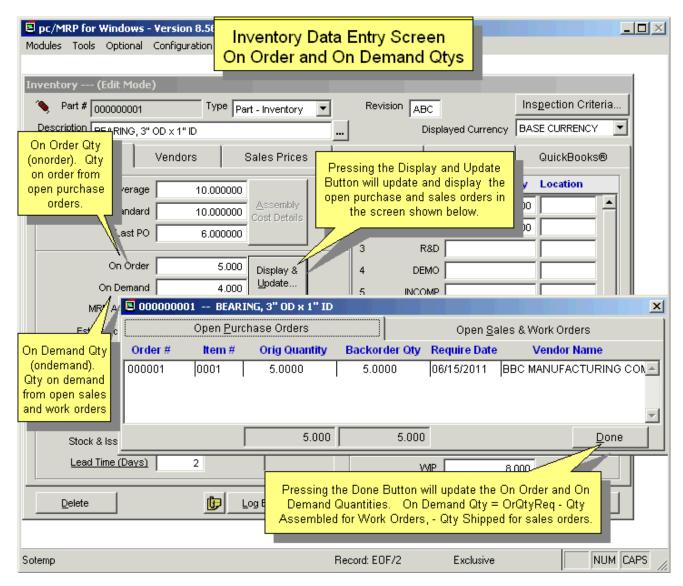
The **Average** Cost/Unit (cost) contains the average cost per unit. The value in this field is automatically recalculated every time a receiver is entered for that part number. The cost averaging formula and conditions are covered in the receiving Section of this Manual. The cost averaging defaults 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.

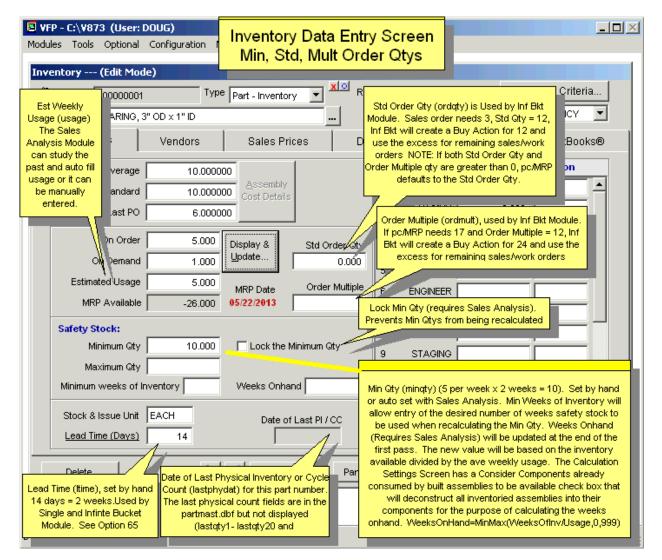
## 5.1.2.4 Enter a New Part Number, Step 4, Inventory Data Entry Screen, Left Side



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.



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.

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, pc/MRP uses the Std Order Qty.

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.

VFP - C:\V873 (User: DOUG) Modules Tools Optional Configuration	Inventory Data Entry Screen MRP Avail and MRP Date
Inventory (Edit Mode)	
Not # 000000001	Type Part - Inventory  Revision ABC Inspection Criteria
Description BEARING, 3" OD × 1" ID	Displayed Currency BASE CURRENCY
Qtys \ Costs Vendors	Sales P Infinite Bucket MRP Time Stamp Date was added to QuickBooks® Versions 8.73D and higher. The MRP Available Field
Costs: Average 10.0	000000 is only correct right after generating an MRP. This is why we have put a time stamp next to the MRP
Standard 10.0	Assembly Available Field. If you hover your mouse over the
Last PO 6.0	Cost Detail Time Stamp Field it will display the Time as well. After 24 hours the Time Stamp will turn red.
On Order 5.0	Display & Ler Gty 4 DEMO
On Demand 1.0	000 Update 0.000 5 INCOMP
Estimated Usage 5.0	
MRP Available -26.0	
Safety Stock:	
Minimum Qty 10.0	
Maximum Qty	9 STAGING
Minimum weeks of Inventory	Qty Available (avail) after MRP Allocation. It is also known as ATP (Available To Promise). Currently this field is designed to accurately reflect the availability of component parts (Onhand
Stock & Issue Unit EACH	+ POs - future issues to sales and work orders) and not assemblies. This will be enhanced in future upgrades. Once the Infinite Bucket has finished generating an MRP, it zero out and then
Lead Time (Days) 14	update the each part-number's MRP Available Field. 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.
Date the MRP was generated	Warning, with versions 8.95W and lower, the MRP Avail factored in Min Qtys if you did OR did not check Include Min Qtys when generating an MRP with the Inf Bkt Module. The Infinite Bucket Reports have always factor in the check box setting. 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. **Note**: Versions **8.95W** and below always factored in the minimum qty.

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.

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 S	Stores Quantities an	d Locations

pc/MRP for Windows - Ver Modules Tools Optional Cont	Invento	We recommend setting Configuration, Settings and Utilities, Option 62 to not allow editing of the Quantity Fields.		
Inventory (Edit Mode)           Part # 000000001           Description           BEARING, 3" OD           Qtys \ Costs	Type Part - Invent x 1" ID endors Sales F	(onhand, are area20qty,v	VIP area a2qty -	Location Fields (locate,locate2 - locate20). R5B2 would be Row 5 Bin 2
Costs: Average Standard Last PO On Order On Demand Estimated Usage	10.000000         Assemble Cost Deta           10.000000         Cost Deta           5.0000         Display & Update	Std Order Gty	AN 1 Store: 2 TEST/MRE 3 R&I 4 DEMC 5 INCOM	
MRP Available Safety Stock: Minimum Qty Maximum Qty Minimum weeks of Inventor		e Minimum Qty	5 ENGINEEF 7 QC HOLL 8 RM/ 9 STAGING 10 SCRAI 11 RESERVEI	
Stock & Issue Unit EAC Lead Time (Days) The quantity of a part number is increased whenever it is received and decreased when it	H Date 2 The warehouse names of changed with Option 34 Configuration, Settings	of Last PI / CC	12 Area-1: WIF WIP Oty (wipqty) re	2

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.

Modules Tools		r <b>: DOUG)</b> al Configurati	Inventory A	Data E udit W		Screen	ľ			
Inventory -	(Edit I	Mode)								
i 🔦 Parta	# 000000	001	Type Part - Inver	ntory 💌	×	Revision A	вс		Ins <u>p</u> ection	n Criteria
Description	BEARIN	IG, 3" OD x 1" ID					Displaye	d Currency	BASE CURF	RENCY
Qtvsl(	) Osts	Vandore	Color P	prinae	 	taile 1	na	ataile 7	l <sub>"Quicki</sub>	Books®
Sec. 1	<b>∀IP</b> Deta	nils							×	
Co XQ Ti		e the WIP De	tails for comp	onent: 0	00000	001			Locat	on
St	k Tran #	Work Order #	Issued Date	Issu	ed Qty	Returne	d Qty	Qty in WIF		
▶00	00006	000001-0001	05/31/2012	. 1	0.000	(	D.000	10.00	ē	
	Output LI Print	<u> </u>	nerate		Tota	I Qty in WI 10.0000		wil fro	ll change t om 73 to 10	Ipdate Button he WIP Qty D based on form records
	lssue Uni me (Daγs)		Date o	of Last PI / C		12 /	Area-12 WIP	73.	.000 Audit	VP .
				g Book	Part		to matc	s and or C ch Stockroo sion 8.61 c	om Record:	
A list of items in W	/IP for the	specified compor	ient				_			

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 Windo Modules Tools Option     Inventory (Edit     PO Ratio =     Issuing Unit /     PO Unit     Grays to Sts     Mise: PO Ratio	nal Configuration M Mode) Click on the to enter vend Vendors		Data Entry Scre rs Tab PO Unit Enter Buyers Name. See Note: pc/MRP's Infinit Action Item reports allo print out all buy action it by buyer or for a specif	e Option 25. e Bucket ww you to ems sorted	are Stocking / g Qtys. If the tio # 1. Otys	UI costs are cking / Issuing nit Costs (not rchasing Unit Costs
	CTRONICS TRONICS Complex Stock Iss PO Unit = 4.7 lbs/ft DIG001 980-112-111 Stock Unit	price per lb = \$0. = Issuing Unit/PO I t Price = \$0.52/lb :		Vync or's Ournency PO Unit Oty 1 10 0 0 0 0 0	BASE CURRENO / Stock Unit Pric 11.00000 0.000000 0.000000 0.000000 0.000000 0.000000	
Description Lead Time (Days) Each vendor can have t is recommended wh vendor has a specific vendor's lead time inste	555050-1 2 their own lead time. If then generating an MRP a lead time, the Inf Bkt will ad of the part's generic re (Versions 860 and hig	e vendor use the lead time bed time time bed time bed time bed time bed time bed tim	ble PO Ratio example: :k Issuing Unit = FT Jnit = Roll dors price per roll = \$20.00/ PO Ratio = Issuing Unit/PO L :k Issuing Unit Price = \$20.00 lar to the Ave Cost/ Std Cost e PO qty is for 2: IRP will insert 2 Rolls and \$2 IRP's Receiver will be for 2 I t will increase the onhand qt	Jnit = 100 FT/Roll = 1( D/Roll / 100 FT/Roll = 3 t / Last PO Cost 20.00 per Roll into the Rolls at \$20.00 per R	\$0.20/FT 9 PO foll	\$0.20 cost

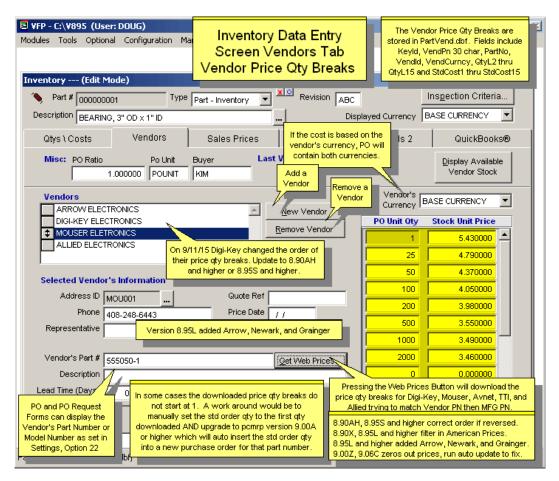
Vendor Lead Time: See the screen shot above.

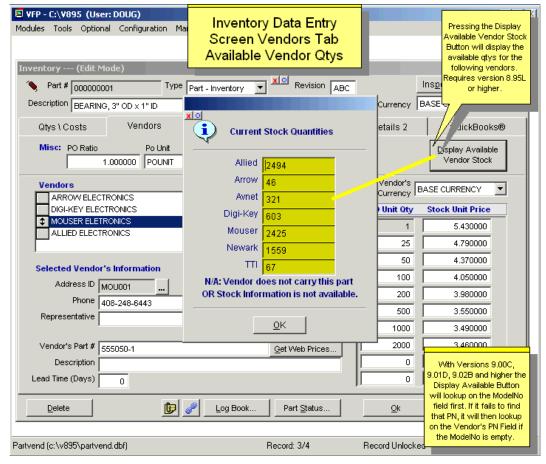
The **PO Ratio** (poratio) field is the ratio of the number of issued units required for one purchase unit. For example, if you issue in feet and purchase in yards, the PO Ratio would equal 3. Whenever a part number is created or data is imported into the partmast.dbf file, pc/MRP automatically inserts 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  $\uparrow$  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 (versions **8.95L** and higher for Arrow, Newark and Grainger). 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).

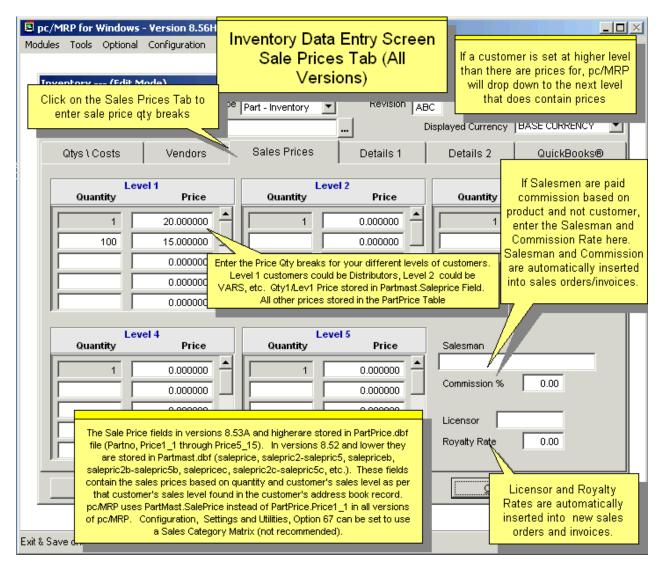
**Display Available Stock Quantities:** pc/MRP will download and display (not save) the current available stock quantities for the previously listed vendors (except for Grainger) (versions **8.95L** and higher). The program does the look-up based on the model number, or if that is empty, the current 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.

**Enter Selling Prices (second option).** 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)						
Pa	art # 000000013		Type Part	-	Revision		
Descrip	tion BOLTS		,				
Quanti	tes \ Costs 📔 Ve	ndors	Sales Prices	Manufac	turers \ Models \ A	It Parts	Miscelleneous
	Salesman 🗌			1	Licenso	·	
Con	nmission % 0.01	0			Royalty Rate	0.00	
		Sa	le Price Catagory		·		
Level	Price	Level	Price	Level	Price	Level	Price
A	5.0000	н	0.5000	0	0.0000	v [	0.0000
В	1000.0000	- I [	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	U	0.0000		
	elete		Log Book	<u>//</u> here Us	ed	<u>)</u> k	<u>C</u> ancel

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 TIRS 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
Yearly Quota	are: "A" thru "Y" <u>Ok</u> <u>Cancel</u>
La <u>b</u> els	Logbook Delete Ok Cancel

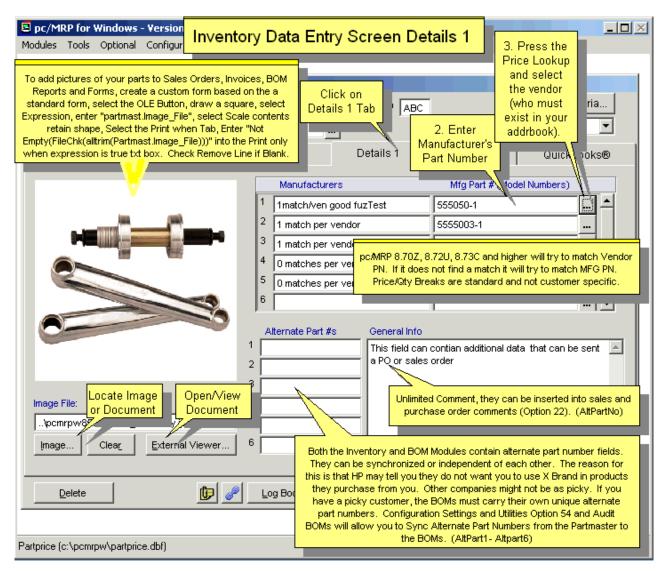
In this case, the customer shown would pay the level G price for category B type parts. As such, his price would be \$9.00. We do not recommend using this pricing method, as it is not simple and straightforward. If a sales price level is left blank like E or F in the address entry or if the sales price category is left bank in inventory the sales price will default to sales price level A.

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.

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

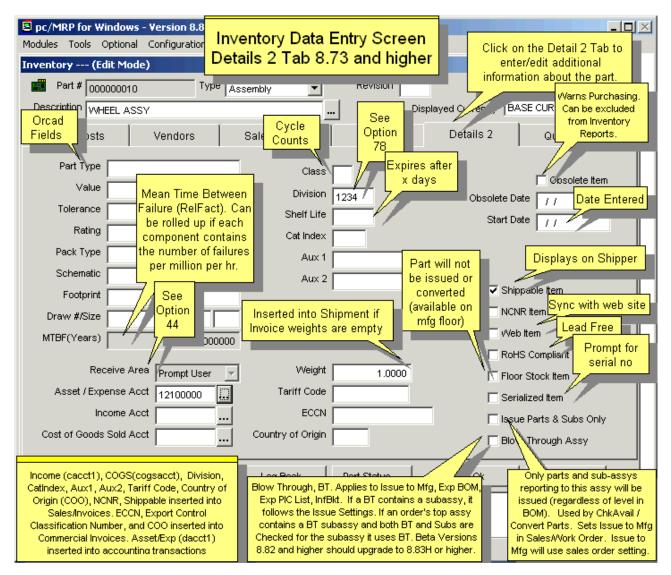


Enter **Manufacturers** (manufacter, mfg2-mfg9) and their respective **Model Numbers** (modelno, modelno2modelno9). The **Alternate Part #s** (altpart1 - altpart6) allow users to store up to six alternate part numbers that can be used in place of this part number. These fields are for your reference 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 were added in Version 8.73. These 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) are used on Commercial Invoices.

To obsolete a part, check the **Obsolete Item** checkbox. The date field **Obsolete Date** (obsdate) 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. Read only field.

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.

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

VFP - C:\V832 Modules Tools O	(User: DOUG) ptional Configuration	Inventory Data Entry Screen				
Inventory (Edit Mode)			x to Enter/E	QuickBooks Tab dit QuickBooks n for this part	spection Criteria SE CURRENCY	
Qtys \ Costs	Vendors	Sales Prices	 Details 1	Details 2	QuickBooks®	
QuickBooks® Id Numbers       Item does not currently exist within QuickBooks. It will be added to QuickBooks the next time the item is Invoiced or Received.       Insert Part Name from QuickBooks.         Inventory Id       CON-00001						
QuickBooks Name for this part.         Cost of Goods Sold Account         Cost Of Goods Sold					<u> </u>	
	Income Account	Business Income			•	
Asset/Expense Account Requires Optional QuickBooks Interface Module for this Tab to be displayed Asset account (Account (Account) (Account			~Ev	her Current Asset nesse ne from QuickBoo	► c. ks.	
Payroll Expenses Purchase Discount				pense pense		
If a file named ALLOWCOGS.FLG exits in the pomp folder, pc/MRP will allow users to select a COGS account for the Asset/Expense Account for PART- NON INVENTORY part numbers. 8.90L, 8.94J and 8.95D and higher will allow Other Current Liability Account Types to make a payment to your credit card provider. The QBPartsdbf and QBAccountsdbf DBF Files contain cached Quick Books part and chart of accounts info. These files can be refreshed by selecting Optional, QuickBooks and "Update the cached QB data files".						o. I,

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.

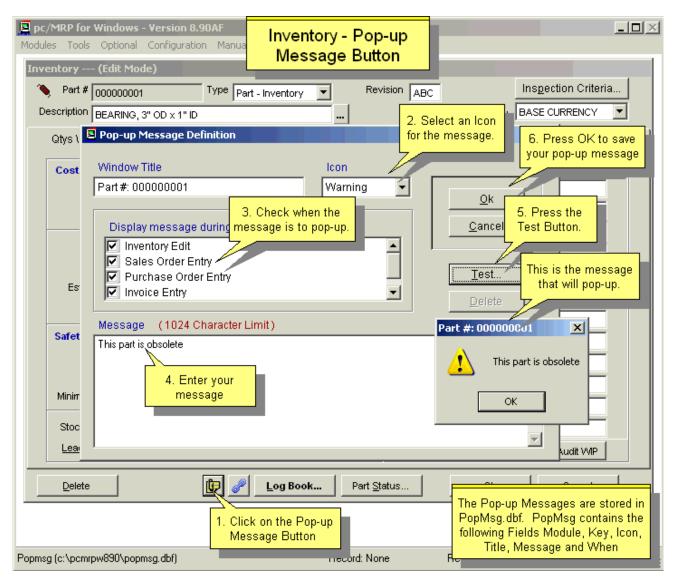
pc/MRP populates the drop down chart of accounts lists from its own QbAccountsDbf.dbf instead of populating the chart of accounts lists from QuickBooks. (This is very fast.) pc/MRP creates a fresh copy of QbAccountsDbf.dbf whenever invoices or receivers are exported to QuickBooks. If the account does 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 sub-accounts and larger account descriptions.

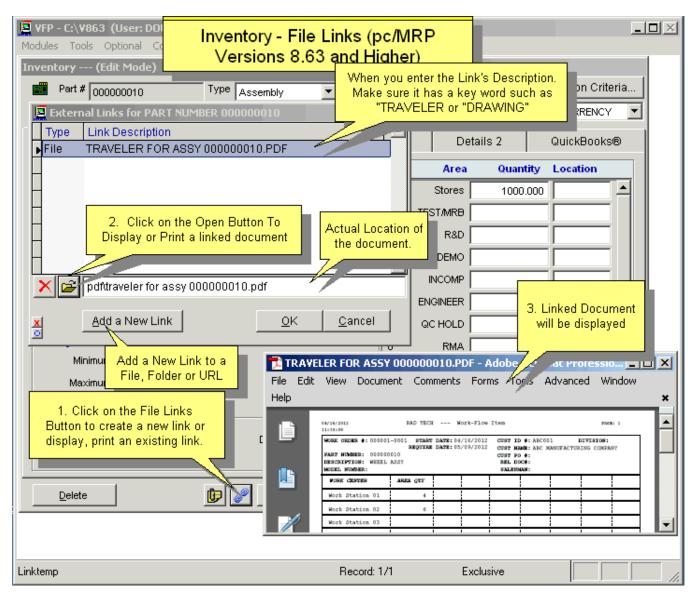
See Chapter 16.16 in this Manual for details on the implementing the QuickBooks Interface Module.

## 5.1.2.12. 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 SQ.



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 <u>http://www.pcmrp.com/mrp101/flinksdatabasefile.htm</u>.

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 would no longer be able to associate the file with the part number.

VFP - C:\V863 (User: DOUG) Modules Tools Optional Configural	Inventory - Log Book				
Part # 000000010	Type Assembly	Ins <u>p</u> ection Criteria			
Description WHEEL ASSY		Displayed Currency BASE CURRENCY			
Qtys \ Costs Vendors	Sales Prices Details 1	Details 2 QuickBooks®			
Costs: A: *C:\Y863\PartLogs\000000010.txt - Notepad++ Sta File Edit Search View Encoding Language Settings Macro Run TextFX Plugins Window ? X Li 0 1 LOG BOOK FOR PART NUMBER: 000000010 2 0000000010.txt 2 0 1 LOG BOOK FOR PART NUMBER: 000000010 2 3 2:00 PM 6/1/2012 4 Changed ID from 3.5" +/0005 to 3.5" +/0001 2 Pressing F5 will insert the Date and Time. After that enter your text. This can be used for general notes or a poor man's ECN File.					
Stock & Issu Lead Time (	n:4 Col:21 Sel:0 Do	s\Windows ANSI INS //			
Delete 1. Click on the Log E Open the Log Book text file	Part Status	Configuration, Settings and Utilities, Option 80 can be set to open a TXT or DOC file			

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

Display/Print all BOMs that use that part number

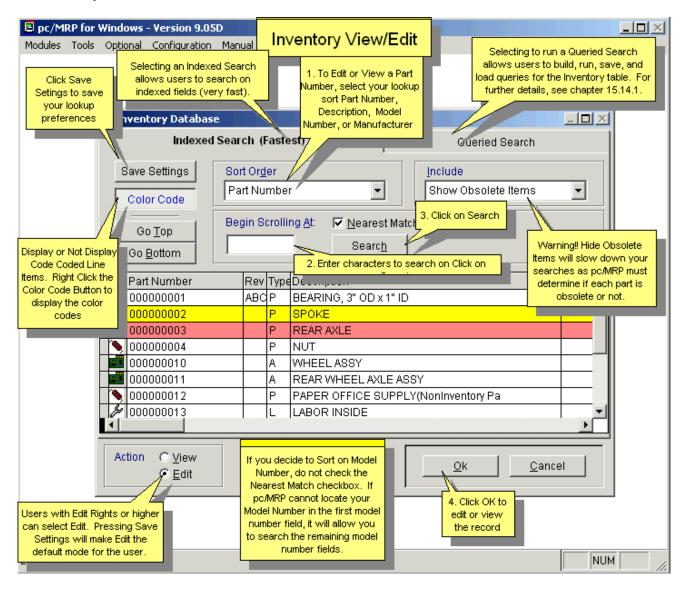
Display/Print all Shortages on the manufacturing floor by sales/work order for that part number Display/Print all Quantities on the manufacturing floor by sales order for that part number Display/Print all inventory movements for a specified time period for that part number Display/Print all MRP action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

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. 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). (Versions **8.90F** and below offered to remove marked records immediately.)

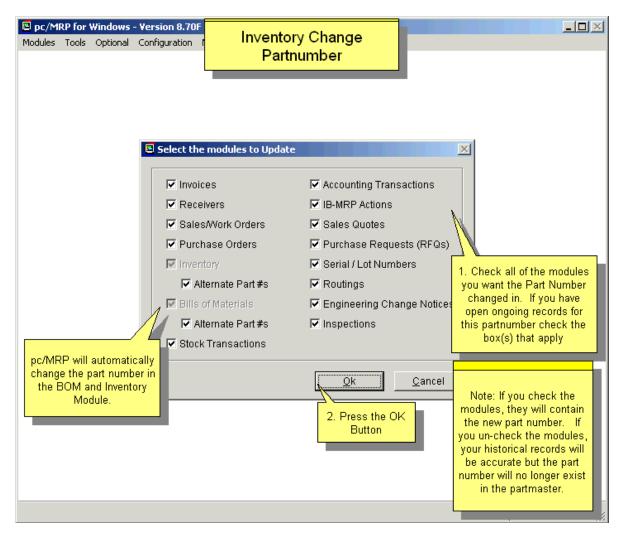
Selecting "Hide Obsolete Items" might make your scroll screen look less "cluttered" but it might take longer for pc/MRP to display the scroll screen.

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.

	Configuration Manu	Inventory Un-Delete			E				
Inventory (Edit Mod			Poulois		-		Inspe	ection Criteri	ia
Part # 000000001 Description BEARING, 3		'art - Inventory 🔽		DIN ABC	played C	urrency		CURRENCY	<b>•</b>
Qtys \ Costs	Vendors	Sales Prices	Detail	s1	De	etails 2		QuickBool	ks®
Costs: Average	10.000000		_		Area	Qu	antity	Location	_
Standard	10.000000	Assembly Cost Details	1		Stores		5.000		<b>-</b>
Last PO	6.000000		2		ST/MRB		2.000	<u> </u>	
On Order	Di	isplay & Std On	der Qty 🖌		R&D			<u> </u>	,
On Demand		pdate	0.000		DEMO				
Estimated Usage	ME	RPDate Order	Multiple 6						
MRP Available		/25/2015	7		GINEER   HOLD			<u> </u>	
Safety Stock:			8		RMA				
Minimum Qty	10.000	Lock the Minimum Q			AGING				
Maximum Qty			1		SCRAP				
Minimum weeks of I	nventory	Weeks Onhand	1		ERVED				
Stock & Issue Unit	EACH	Date of Last PI/0			rea-12				-
<u>Lead Time (Daγs)</u>	2		Ĩ		VMP		8.000	Audit VMP	
Delete	. <b>D</b>	Log Book	Part <u>S</u> tatu	.		<u>O</u> k	1	Cancel	
Modules Tools Optional	Configuration Manu	Inventory Un-Delete		n If y				letion, you deletion in l	
	ete a Part have elected to Mar	k for deletion Part #	0000000	tł	ne BOM	l and Inv	/entory	Tables as in the BOM	to not
							_	_	
	What scope sh	ould the Deletion tak	e.						
	○ <u>2</u> . Dele	te from both the BOM te from the BOM tabl te from the Inventory	e only	tory tabl	es				
Т	he tables must be e	es not remove it from explicitly purged by se ables for it to be perm	electing the	"Remov					
				OK		<u>C</u> ancel			
pc/MRP Versions 8.90G longer automatically remuthe the Partmast and BOM T Marked Records Option them for de	ove the deleted record ables as using the Ren	s from noved		Re	an Adn emove N	nin Lock Marked	cout an Record	l later on, s d run the s Option fo 1 Modules.	
								NUM	1

## 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.

Implementation       Implementation         Modules       Tools       Optional       Co         Implementation       Implementation       Implementation         Implementation       Implementation       Implementation </th <th>Locate the part number that is going to be marked for deletion. The part number will contain the words "Merged Item". The Part Description will not change. The comments for this part number will contain its original part number and the part number it was merged into.</th>	Locate the part number that is going to be marked for deletion. The part number will contain the words "Merged Item". The Part Description will not change. The comments for this part number will contain its original part number and the part number it was merged into.
Record Merging Tool   Image this Inventory Item   000000010   Image this Inventory Item	Locate the part number that you are going to keep. All purchase orders, sales orders, stock transactions, etc that contained the from part number will now contain the part number you intend to keep.
000000011          REAR WHEEL AXLE ASSY         ✓ Merge the Inventory Logbooks         ✓ Merge the Inventory Quantites         ✓ Recalculate the On-Order and On	
✓ Merge the Alternate Part numbers ✓ Merge the Vendor Pricing data ✓ Delete the BOM definition Ok If you are merging two BOMs a want the merged BOM to be merging the Delete BOM definition checkbox	Press OK to merge the two part numbers Cancel nd you tarked the Cancel Compart Number Cancel Compart Number Cancel Compart Number Cancel Compart Number Cancel Compart Number Cancel Compart Number Cancel Compart Number Cancel Compart Number Compart Number C

**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.

#### 5.1.7 Reports

pc/MRP for Windows - Version 9.00Q Modules Tools Optional Configuration Manu Inventory Print Re Inventory Reports	3. Select Sort, Description, Part Number, Manufacturer, Model Number, Location, Vendor, Cost, Cat Index, Division, Extended Cost, Class, Buyer, Drawing No, Buyer, Part Type
Al Parts Costed (Inventory Value Report)     I. Select Report Type, Uncosted (part.frx), Costed (part\$.frx), All For a Buyer, All For a Vendor (parts\$.frx), Movement (PartMov.frx), Approved Vendors, Price List, Etc.	Sort Report /
Include       C All Record Types       Currency         O Inventory Parts only       BASE CURRENCY ▼         C Assemblies only       Both Inventory Parts and Assemblies only         C Labor and Non-Inventory Parts only       C Aspecific Product Code         O A specific CatIndex Code only       C Aspecific Class Code only	Send Report to Display  4. *Select Display, Print, PDF, Excel, ASCII, DBF  Standard Custom
A specific Suffix Code only     Lead Time is     Device Days     Field 1 STORES → is     Qty     0.000 →     State of the sending to reports to Excel, pc/MRF     higher can include the contents of the Att     Field and correctly handle date fields whe     to Excel. (Excel must be installed on the field     will automatically uncheck memo fields. Excel     takes a long time.	Save as De <u>Ok</u> Select Std or Custom. Primary DBF Partmast.dbf Child DBFs Partvend.dbf, Partprice.dbf. Standard Report Names Part,Part\$, PartMov Custom Report Names can be CUSPAR*.You can download CusPar_CostArea.frx from http://www.pcmrp.com/invrpt.htm CusPar840.exe. Select All Parts

To display or print an inventory report, select Modules, Inventory, Reports and the screen shown above will display. 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.

Note: When selecting e.g. "Field Total Are Qty is > Qty 0" this total includes quantities in all 20 areas plus WIP.

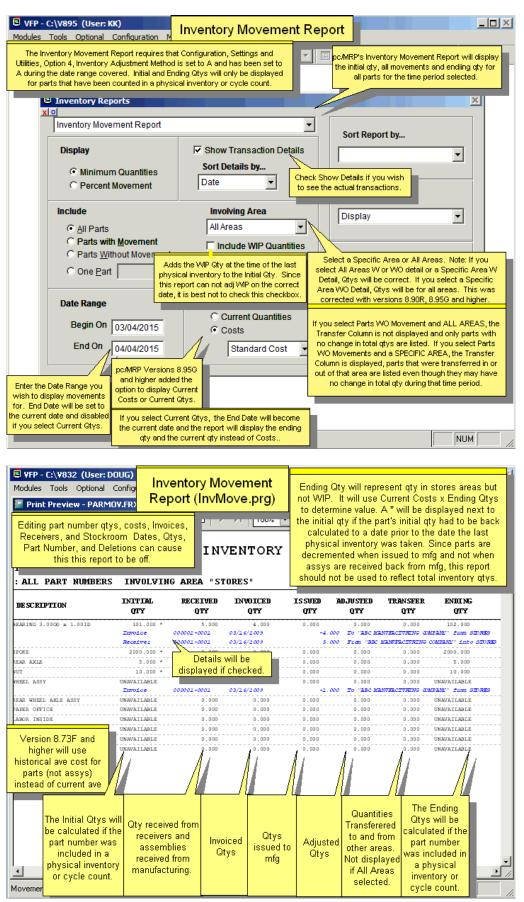
## Note: All parts un-costed for single areas are cuspart0-cuspart20.frx and are available for download at http://www.pcmrp.com/invrpt.htm

Note: This is the lead time for this part/assembly listed in inventory, not a cumulative lead time for an assembly.

Reports can be **Sent To** Display, Print, HTML, ASCII, XLS, and DBF files. If the *Database, Comma Delimited* or ASCII output options are chosen, pc/MRP will create a file of that type which contains all of the raw data used by the report. If you have the Windows Generic Print Driver installed, you may select one of the *Print* output options. Then select *Print to File* to generate a text file, which mirrors the actual report. Any portion of the printed report, which normally appears in bold, will be included in the text file three times. You may edit the report forms to remove the bolding and prevent the duplication. See Configuration, Settings & Utilities, **Option 24**.

**Note:** pc/MRP will offer to include the Comments (AltPartNo memo field) when sending the report to Excel. Sending memo fields into Excel significantly slows down the process. Do not include memo type fields, unless you need them. Versions **8.80B**, **8.81C** and below defaulted to include memo fields.

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.



**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.

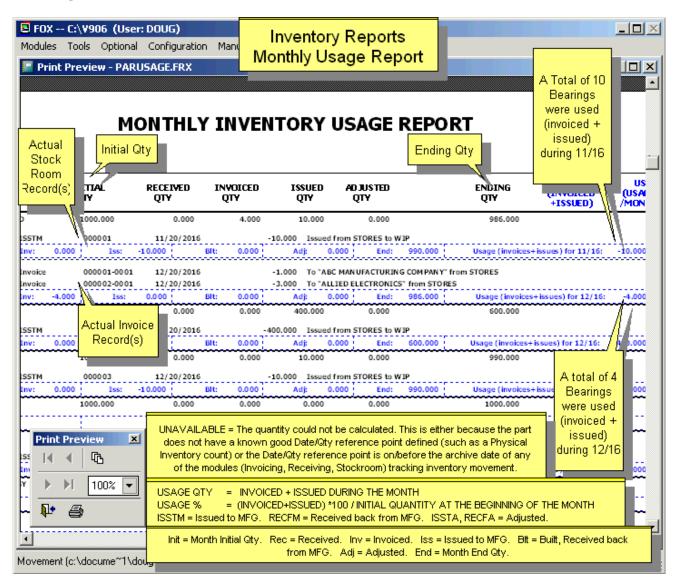
If you run the report for all areas, B type (transferring between inventory areas) transactions do not change the ending quantity; therefore they will not be listed. However, if you are running the report for a certain inventory area, transferring transactions do have a role, and they *are* listed.

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. Available for Versions **8.95G** and above, 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.

PAGE: 1 DATE: 04/06/2015 0 PERIOD: 03/06/2015 REPORT TYPE: ALL PA	TO 04/06/2015	I	NVENTO	RY MO	VEMEN	T REPORT			PARMOV.FR	X
PARTNO	DESCRIPTION	INITIAL QTY	RECEIVED QTY	INVOLCED QTY	ISSUED QTY	AD JUSTED QTY	ENDING QTY	CURRENT MIN QTY	CURRENT QTY	REVIEW
000000001	BEARING, 3" OD x 1" ID	0.000	250.000	1.000	1.000	0.000	248.000	10.000	248.0000	
	Receiver Receiver Involaz Stockrooi	000001-0001 000002-0001 000001-0001 000010	04/02/2015 04/02/2015 04/06/2015 04/06/2015		150.000 From "A -1.000 To "ORE	RROW ELECTRONICS" Into STORES RROW ELECTRONICS" Into TEST/M GON STATE BOARD OF EQUALIZAT om STORES to WIP	IRB			
00000002	SPOKE Receiver Receiver Invoice Stockroon Stockroon		1000.000 04/02/2015 04/02/2015 04/06/2015 04/06/2015 04/06/2015	10.000	750.000 From "B -10.000 To "CA S 0.000 Issued f	0.000 SC MANUFACTURING COMPANY" I SC MANUFACTURING COMPANY" I TATE BOARD OF EQUALIZATION" I Iom STORES to WIP Om R&D to WIP	nto R&D	10.000	957.0000	REVIEW
00000003	REAR AXLE	10.000	0.000	0.000	0.000	0.000	10.000	0.000	10.0000	

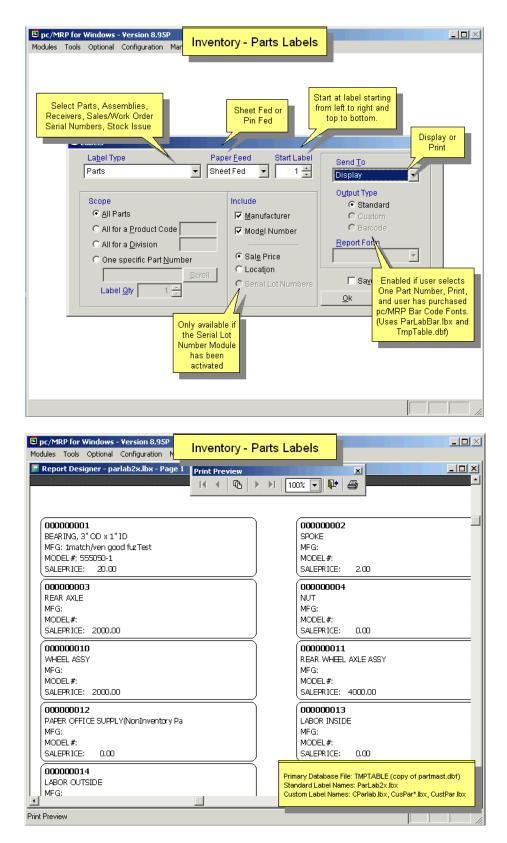
The **Monthly Inventory Usage Report** (*parusage.frx*) is similar to the Inventory Movement Report, but it subtotals the movements (received, invoiced, issued, adjusted) by month. In addition, the report will display the initial and ending quantities for the month. Finally, the usage for each calendar 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**: This report was added in version **9.06C**.



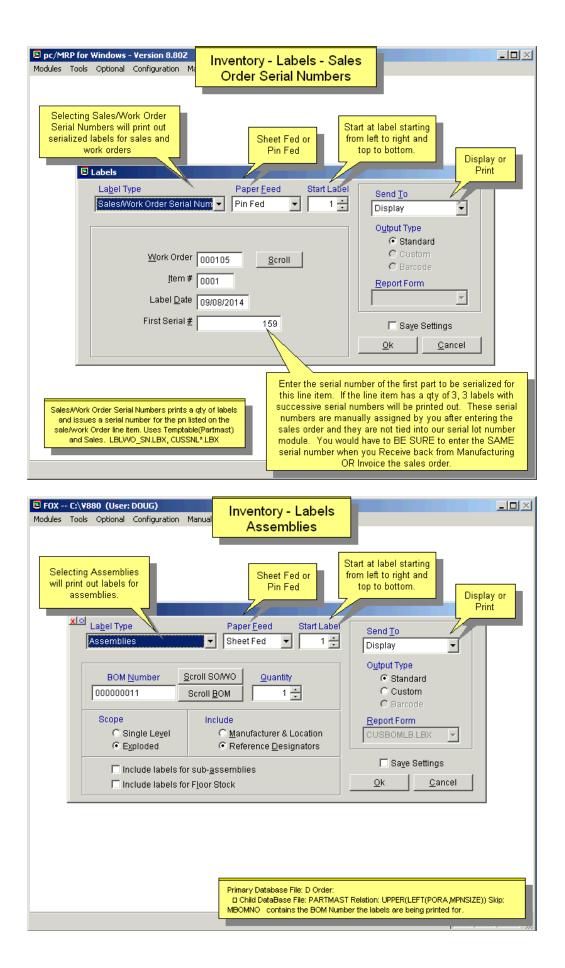
## 5.1.8 Labels

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**

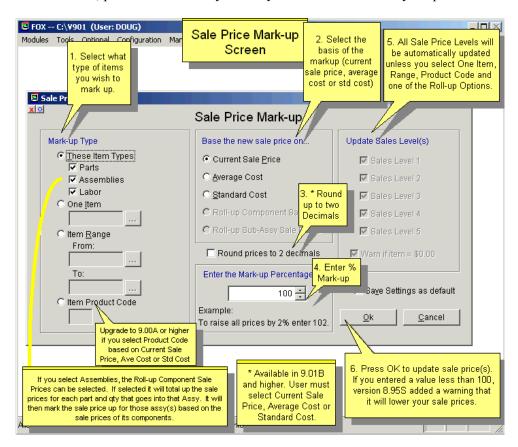


The Work/Sales Order label option creates a MEM file (*wosernum.mem*) to store the last serial number issued. It increases the serial number and prints out as many labels as received for the Work/Sales order line item.

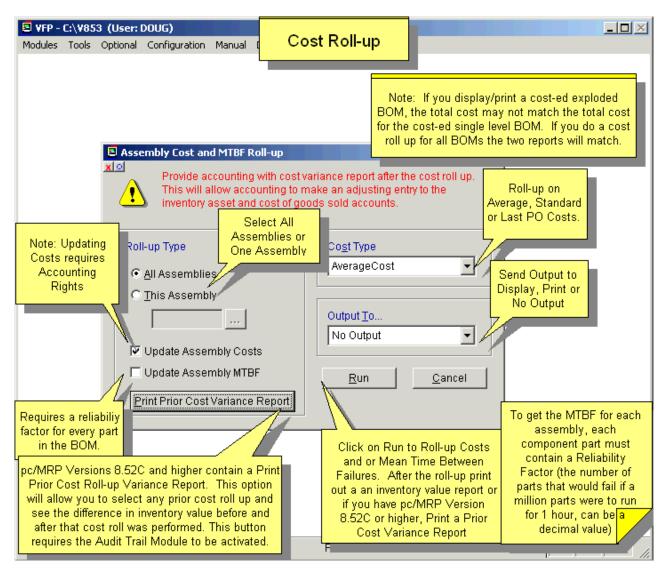


#### 5.1.9 Sales Price Markup

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.



	1ode)				
Part # 000000	010 Tyj	oe Assembly	Revision		Inspection Criteria.
Description WHEEL	ASSY			Displayed Currency	BASE CURRENCY
Qtys \ Costs	Vendors	Sales Prices	] Details 1	Details 2	QuickBooks®
Let Quantity	vel 1 Price	Quantity	vel 2 Price	L Quantity	evel 3 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				
Quantity	vel 4 Price	Originally the sale p \$9.00 for a qty of 10 \$1.00 to \$1.10. We	D. The average u	nit cost of its bea	ring went from
1	0.000000	the wheel to \$5.10 f	or one wheel. We	then did a sale p	rice mark-up of
li i	0.000000	200%. pc/MRP no and new price for on			
	0.000000	\$9.18 ( 10.20/10.00	x \$ 9.00). pc/MR	P would apply the	
	0.000000	а	II existing sale pric	e qty breaks.	
	0.000000		0.000000		



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.

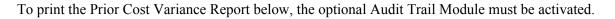
If you do not check any of the Update check boxes, pc/MRP will display the current assembly(s) cost and MTBF. However, it will not update the cost and MTBF in the partmaster file. If you do check these boxes, pc/MRP will update the cost and MTBF in the partmaster. You must have Edit rights in the partmaster 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.

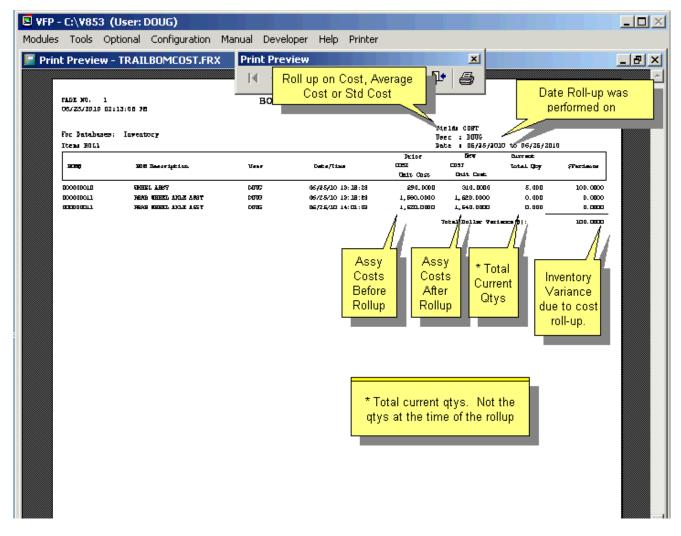
Before performing a cost roll-up, check with Accounting to see if they are using Average or Standard Costs and if it is OK with Accounting to perform a cost roll-up. Accounting should be provided with an inventory value report before and after the cost roll-up. This will allow Accounting to adjust the 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. **8.95Q** and higher.

**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.





The **MTBF** is calculated as follows:

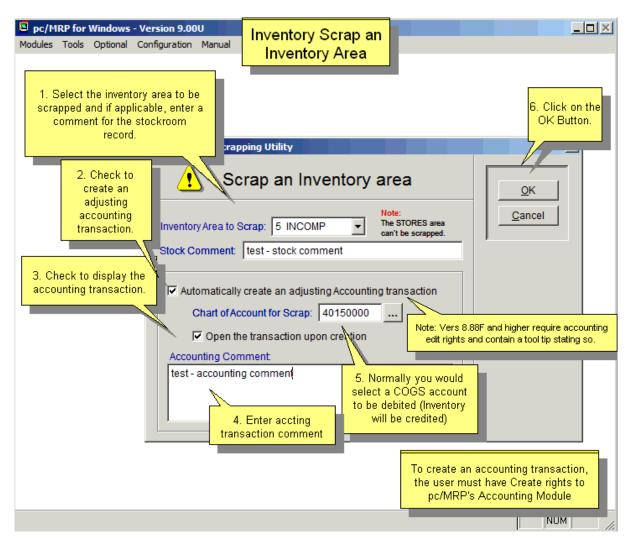
```
MTBF (years) =1/ ((part1qty x part1RF) + (part2qty x part2RF) + ....)X (1,000,000/8760)
The Reliability Factor (# of parts per million that would fail in a 1 hour time period) can be entered under the
Details 2 Tab for each part. This feature requires a reliability factor for every part in the BOM.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

## 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

Note: This function was added in Version 8.88A.



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.

dules Tools Optic	ows - Version 9.00 onal Configuration	Manual Inverto	ory Scrap an ntory Area			1	_   □
Stock Transact	ion Record - [Ed	it Mode ]			×		
Stock Transac	tion # 000144	Part N	umber A3AFNIMA	-001 Re	ev		
Sales/Work O	rder # NONE	Desc	ription Digital Bo	ard, Signal Board			
Rece	iver # NONE	Manufa	acturer				
1	tem # 0001	Model N	umber				
Related Docun	nent# Automate	1 Scran	,				
Transaction			Lot Number				
Di	vision	<u> </u>	Serial Number				
DebitAcc	ount#		Unit				
CreditAcc	ount # INCOMP		Unit Cost	32.45000	0		
Enter	red By . 11:14:44		Inventory Area	INCOMP	<u> </u>		
Transaction	Type ISSTA		Required Qty		0		
Tanoaotor	ISSTA	<u>T</u> ypes	Issued Qty	-1.00	-		
				-1.00	U		
	st - stock commer	it					
Aux			L	ast Change 08/	24/2016		
Adj Reason So	rap			-		·	
<u>D</u> elete			ote: Behind the so ockroom A type ti			ach part.	
					is, one for c		
		Ac	lj Reason: Scrap.				
		Ac					
:ktra (c:\pcmrpw_90	0\stocktra.dbf)	Ac	lj Reason: Scrap.		rap.	NUM	
pc/MRP for Windo	ows - Version 9.00 mal Configuration	Manual Invento	lj Reason: Scrap. elated Document i	#: Automated Sci	rap.	NUM	
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Record Unlocked

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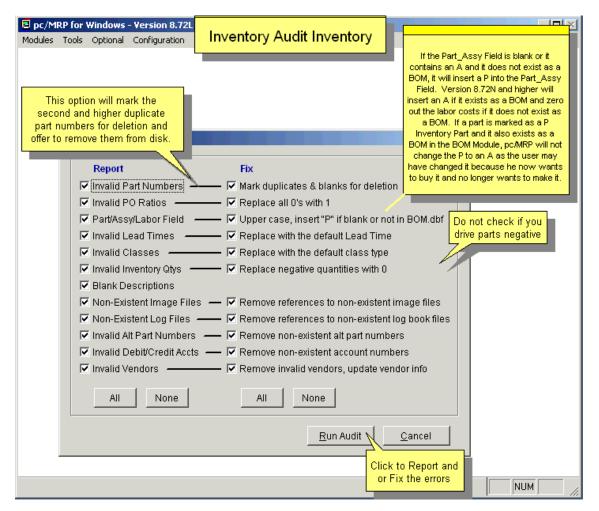
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Stocktra (c:\pcmrpw\_900\stocktra.dbf)

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.

**Note:** Revisions **8.88E** and lower created stockroom (and serial number) records for every part, did not require accounting rights, and created "S" type transactions instead of "J" when adjusting the quantity down.

## 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 qtys 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.

2. 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.

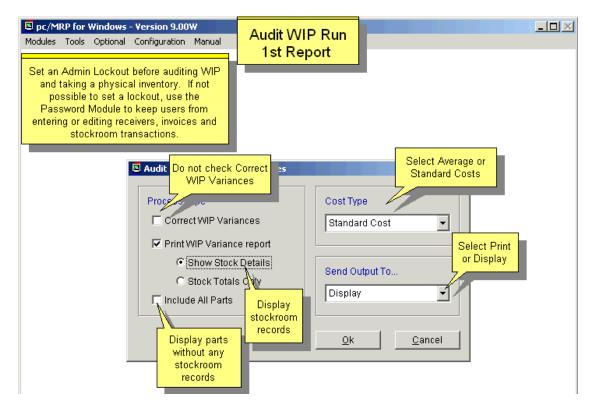
3. Negative part quantities were entered into BOMs.

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.

pc/MRP for Windows     Modules Tools Optional     Inventory     BOMs     Stockgroom     Burchase     Beceive     Work Order     Sales Order     Invoice     Sbipment     Address Book     Accounting     Egit	Audit \//IP (	WP stands for Work in Progress and is the inventory out on the manufacturing floor. You must run Audit WP 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. pcMRP's Audit WP program simplifies the process by having you verifying and correcting the sales and work orders that are ACTUALLY out on the manufacturing floor. First run the Audit WIP Report Without correcting WIP dtys. If a sales or work order is actually on the floor, but not on the report, use the stockroom to issue that sales or work order. If a sales or work order is on the report, but it has been physically received back, but the stockroom did not use pcMRP to receive it back, use the stockroom to receive back that sales or work order. Now run the Audit WIP Report a second time With Correcting wIP dtys. The report should now reflect the correct sales or work orders on the floor. Gty corrections will be displayed on third report. Run the Audit WIP Report a third time With or WO Correcting wIP dtys. pcMRP will use the stockroom issue records for all sales or work orders that have been issued and not received back to set the VIP dtys in the Invertory (Partmats) Module.
<ol> <li>Stockroom module was</li></ol>	odule was not used to issue and receive back th	re closed manually by placing a Y
in the sales or work orde <li>Negative Qtys were er</li> <li>Configuration, Settings</li>	s used to issue sales or work orders but they we	e from editing qtys in the inventory



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.

Print Print he initial work on pc/MRP	Tools ( t Preview I report co ders (101 "s Stockro are curre	Optional <b>v - WIPV</b> ontains the , 102, and oom Reco ently in W	AR.FRX e sales and d 105) that rds show	tion Manua Print Previe	ew Cb	IP 1st Repor	If for exa on the here, so from mf ba	ample sales/work orde manufacturing floor bi mebody forgot to reco g. Receive the sales/ ck as shown on slide <b>/AR.FRX)</b>	ut is listed eive it back work order
s	50\WO#	ITEM	STOCK TRANS		QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	VARIAN
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0	00102	0001	000004		20.000	0.000	20.000		
0	00105	0001	000006		1.000	0.000	1.000		
		00	0000001			** TOTALS **	31.000	40.000	9.(
F	PARTNU	MBER:	0000000	02	SPOKE			1	
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0	00102	0001	000005		800.000	0.000	800.000	\	
0	00105	0001	000007		40.000	0.000	40.000	/	
		00	0000002			** TOTALS **	1240.000	1240.000	0.0
F	PARTNU	MBER:	0000000	03	REAR A	KLE			\
0	00102	0001	000003		10.000	0.000	10.000		\
		00	0000003			** TOTALS **	10.000	10.000	1 0.0
106 is but r forgot	example s on the ma not listed P to issue it sue it to ma shown o	anufactur here, som : to manuf	ring floor lebody facturing. ing as	with a qty Issuing to m the onhand Gty of 0 ba	y of -1. The MR fg will create a d qty by +1. The ased on stockro	into BOMs. If a BOM P will not create a Buy stockroom record for WIP Variance Report om records and a WIP Audit WIP Button will s	vaction item. -1 and increase will show VMP qty of -1 from	The Partmast WIP ( match the Stock Roo a user edited the Pa Gtys or issued a sa order, did not receiv marked it as co	n WIP QTY if artmast WIP ale or work e it back and

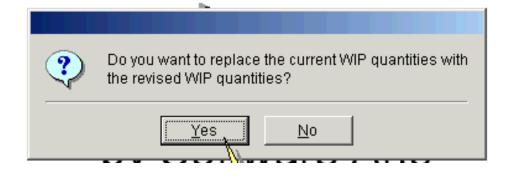
Now run the Audit WIP Report a second time and check Correct WIP gtys (which will run *after* the report is being displayed). The report should now reflect the correct sales and work orders on the floor.

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

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.

pc/MRP for Windows - Version 9.00W Audit WIP 2nd Report Modules Tools Optional Configuration Manua Notice in our example sales order 101 is no

SO/WO#         ITEM         TRANS #         ISSUED         RETURNED         (STOCKRM)         (PARTMAST)           PART NUMBER:         00000001         BEARING, 3" OD × 1" ID         (DOUD 2000000000000000000000000000000000000	ISSUED         RETURNED         (STOCKRM)         (PARTMAST)         *           BEARING, 3" OD × 1" ID         20.000         20.000         1.000         1.000         1.000         20.000         1.000         1.000         1.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         30.000         1.000         1.000         30.000         1.000         30.000         1.00	J\WO#         ITEM         TRANS #         ISSUED         RETURNED         (STOCKRM)         (PARTMAST)           ART NUMBER:         000000001         BEARING, 3" OD × 1" ID         (9000000000000000000000000000000000000			6 05:07:55 PM	QUANTITY	QUANTITY	CORRECT WIP OTY	CURRENT WIP QTY	
000102         0001         000004         20,000         0.000         20,000           000105         0001         000006         1,000         0,000         1,000           00000001         ** TOTALS **         21,000         30,000           PART NUMBER:         00000002         SPOKE          40,000         40,000         800,000 <th>20.000       0.000       20.000         1.000       0.000       1.000         ** TOTALS **       21.000       30.000         SPOKE       21.000       30.000         40.000       0.000       40.000         ** TOTALS **       840.000       840.000         REAR AXLE       50.000       50.000</th> <th>0102       0001       00004       20.000       0.000       20.000         0105       0001       00006       1.000       0.000       1.000         00000001       ** TOTALS **       21.000       30,000         ART NUMBER:       00000002       SPOKE       20001       00005       800.000       40.000         0102       0001       00007       40.000       0.000       40.000       840.000         0105       0001       000003       REAR AXLE       840.000       840.000         0102       0001       000010       1.000       0.000       10.000</th> <th>50\WO#</th> <th># ITEM</th> <th>TRANS #</th> <th></th> <th></th> <th></th> <th></th> <th>v</th>	20.000       0.000       20.000         1.000       0.000       1.000         ** TOTALS **       21.000       30.000         SPOKE       21.000       30.000         40.000       0.000       40.000         ** TOTALS **       840.000       840.000         REAR AXLE       50.000       50.000	0102       0001       00004       20.000       0.000       20.000         0105       0001       00006       1.000       0.000       1.000         00000001       ** TOTALS **       21.000       30,000         ART NUMBER:       00000002       SPOKE       20001       00005       800.000       40.000         0102       0001       00007       40.000       0.000       40.000       840.000         0105       0001       000003       REAR AXLE       840.000       840.000         0102       0001       000010       1.000       0.000       10.000	50\WO#	# ITEM	TRANS #					v
000105         0001         000006         1.000         0.000         1.000         30.0           PART NUMBER:         00000002         SPOKE         21.000         30.0         30	1.000 0.000 1.000  ** TOTALS ** 21.000 30,000  SPOKE 800.000 0.000 800.000 40.000 40.000  ** TOTALS ** 840.000 REAR AXLE	0105         0001         000006         1.000         0.000         1.000           00000001         ** TOTALS **         21.000         30,000           ART NUMBER:         00000002         SPOKE         2000         30000           0102         0001         00007         40.000         0.000         40.000         40.000           00000002         ** TOTALS **         840.000         840.000         840.000           ART NUMBER:         00000003         REAR AXLE         10.000         10.000         10.000           0102         0001         000010         1.000         0.000         10.000         10.000	PARTNU	UMBER:	000000001	BEARING	5, 3" OD x 1" ID			
000000001         ** TOTALS **         21,000         30,0           PART NUMBER:         00000002         SPOKE         200000000         300,000	** TOTALS **       21.000       30.000         SPOKE       800.000       0.000       800.000         40.000       0.000       40.000       840.000         ** TOTALS **       840.000       840.000         REAR AXLE       840.000       840.000	00000001         ** TOTALS **         21.000         30.000           ART NUMBER:         00000002         SPOKE             0102         0001         000005         800.000         0.000         800.000           0105         0001         00007         40.000         0.000         40.000           00000002         ** TOTALS **         840.000         840.000           ART NUMBER:         00000003         REAR AXLE             0102         0001         000010         1.000         0.000         10.000	000102	0001	000004	20.000	0.000	20.000		
PART NUMBER:         00000002         SPOKE           000102         0001         000005         800.000         800.000           000105         0001         000007         40.000         0.000         40.000           00000002         ** TOTALS **         840.000         840.000	SPOKE 800.000 0.000 800.000 40.000 0.000 40.000 ** TOTALS ** 840.000 REAR AXLE	ART NUMBER:         00000002         SPOKE           0102         0001         000005         800.000         0.000         800.000           0105         0001         000007         40.000         0.000         40.000           00000002         ** TOTALS **         840.000         840.000           ART NUMBER:         000000003         REAR AXLE         10.000         10.000           0102         0001         000010         1.000         0.000         1.000	000105	0001	000006	1.000	0.000	1.000		
000102 0001 000005 800.000 0.000 800.000 000105 0001 000007 40.000 0.000 40.000 00000002 ** TOTALS ** 840.000 840.0	800.000 0.000 800.000 40.000 0.000 40.000 ** TOTALS ** 840.000 REAR AXLE	0102         0001         000005         800.000         0.000         800.000           0105         0001         000007         40.000         40.000         40.000 <b>00000002</b> ** TOTALS **         840.000           ART NUMBER: 000000003         REAR AXLE           0102         0001         000003         10.000         10.000           0106         0001         000010         1.000         0.000         1.000		00	0000001		** TOTALS **	21.000	30.000	
000105 0001 000007 40.000 40.000 40.000 00000002 ** TOTALS ** 840.000 840.0	40.000 0.000 40.000 ** TOTALS ** 840.000 840.000 REAR AXLE	0105         0000007         40.000         0.000         40.000           00000002         ** TOTALS **         840.000         840.000           ART NUMBER:         00000003         REAR AXLE         0.000         10.000           0106         0001         000010         1.000         0.000         10.000	PART NU	UMBER:	000000002	SPOKE				
00000002 ** TOTALS ** 840.000 840.	** TOTALS ** 840.000 840.000 REAR AXLE	00000002         ** TOTALS **         840,000         840,000           ART NUMBER:         00000003         REAR AXLE         10,000	000102	0001	000005	800.000	0.000	800.000		
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000106 0001 000010 1.000 0.000 1.000	1.000 0.000 1.000	00000003 ** TOTALS ** 11.000 11.000	000106	0001	000010	1.000	0.000	1.000		
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PART NUMBER: 000000010 WHEEL ASSY	WHEEL ASSY	ART NUMBER: 000000010 WHEEL ASSY	PART NU	UMBER:	00000010	WHEEL A	SSY			
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				00	0000010		** TOTALS **	2.000	2.000	
								2,000		
				00	0000010		** TOTALS **	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.

	<b>↓</b>   ∿	▶ ▶   100%	• • 5			nast WIP Qtys now m Stockroom WIP Qtys.	
DATE: 1	1/30/201	6 05:26:01 PM	IP VARIAN	ICE REPOI	RT (WIPV	AR.FRX)	F
50\W0#	¥ ITEM	STOCK TRANS #	QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	VAI
	JMBER:	000000001	BEARING	, 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	
PARTNU	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	
PARTNU	JMBER:	000000003	REAR AXI	E			
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000106	0001	000010	1.000	0.000	1.000		
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000106	0001	000011	2.000	0.000	2.000		
	00	0000010		** TOTALS ** <sup>*</sup>	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 avail 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.

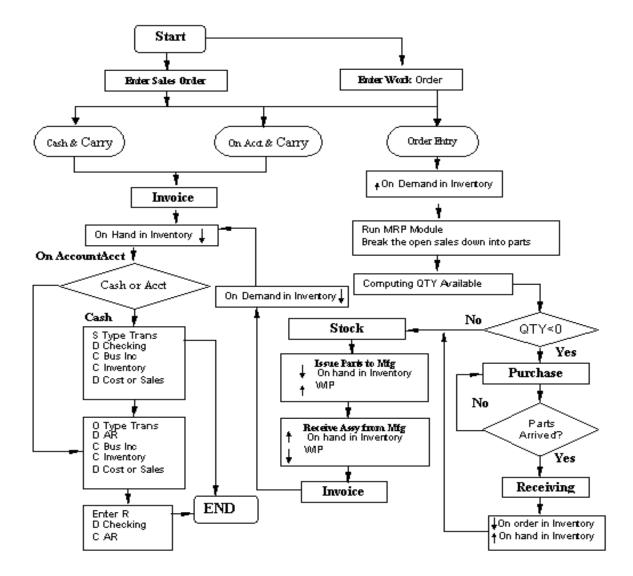
Receiving would enter a receiver for the 200 pedals when they arrive. This would decrease the on order quantity and increase the on hand quantity of the pedals in inventory by 200 giving a new on hand quantity of 800 pedals. This will be enough to build 400 bicycles in addition to the 100 finished bicycles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



(please turn)

## 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.

		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
	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

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

(please turn)

## 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).

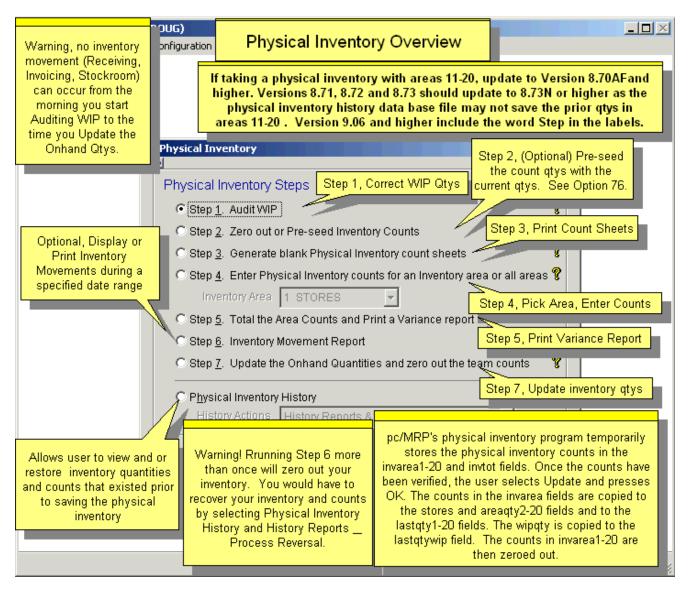
			(	OVER	/IEW				
		START	Create Sales Order for BICYCLE	Run IB	Create Purchase Order for PEDAL	Create Receiver	lssue to mfg	Receive from mfg	Create Invoice
	On Hand	100	100	100	100	100	100	500	0
	On Order	0	0	0	0	0	0	0	0
BICYCLE	On Demand	0	500	500	500	500	500	500	0
	MRP Available	0	0	-400	-400	-400	-400	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 Qtys. 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

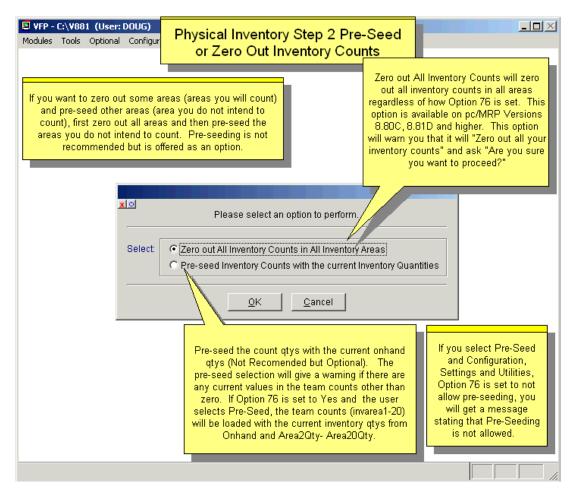
If you have any Work In Process on the manufacturing floor you must make sure the WIP quantities in pc/MRP's Inventory Module are correct before Entering Physical Inventory Counts for your stores areas. WIP quantities should be corrected by running the Audit WIP Function. See **Chapter 5.1.13** for instructions 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: <a href="http://www.pcmrp.com/mrp101/auditwiprun.htm">http://www.pcmrp.com/mrp101/auditwiprun.htm</a>)

#### 6.1.3 Pre-seed or Zero out inventory counts

The first option (recommended) will zero out inventory counts in selected inventory areas (regardless of how **Option 76** is set).

The second option allows you to pre-seed your physical inventory counts (invarea1 – invarea20) with your current inventory quantities for all areas. Option 76 in the Configuration, Settings and Utilities menu (Manual 15.1.76) must be set to allow physical inventory to be pre-seeded for this button to work. The pre-seed selection will give a warning if there are any current values in the team counts other than zero. Users can select the inventory areas to include. Pre-seeding is usually not the preferred method by Accounting, as people might sometimes rely on the pre-seeded quantities, instead of actually performing the counting.

**WARNING!** If you want to zero out only selected areas (areas you will count), then you need to pre-seed other areas (areas you will not count). Zeroing out the areas you will count, does not automatically pre-seed the areas you will not count.

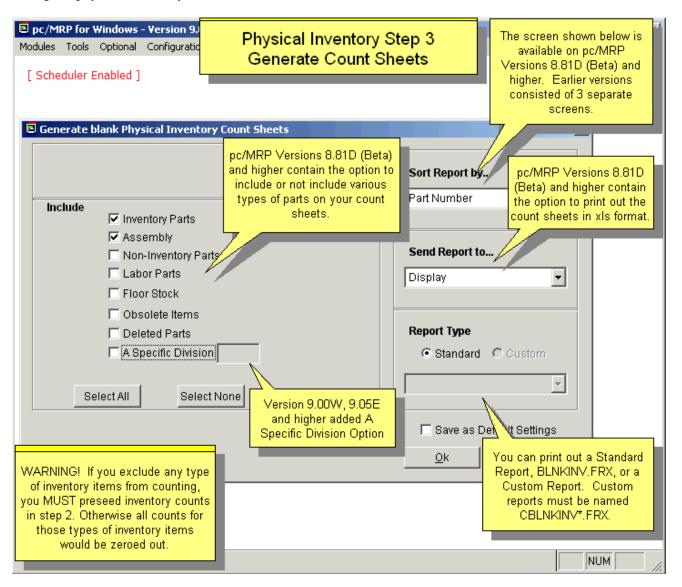


**WARNING!** If you are planning to exclude any type of inventory items from counting (see the next section), you MUST select pre-seed inventory counts in this step. Otherwise all counts for those types of inventory items would be zeroed out. In other words, for every item you don't count, the store quantities will get 0, unless you pre-seeded them.

#### 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.



**WARNING!** If you exclude any type of inventory items from counting, you MUST select pre-seed inventory counts in step 2. Otherwise all counts for those types of inventory items would be zeroed out.

## **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.

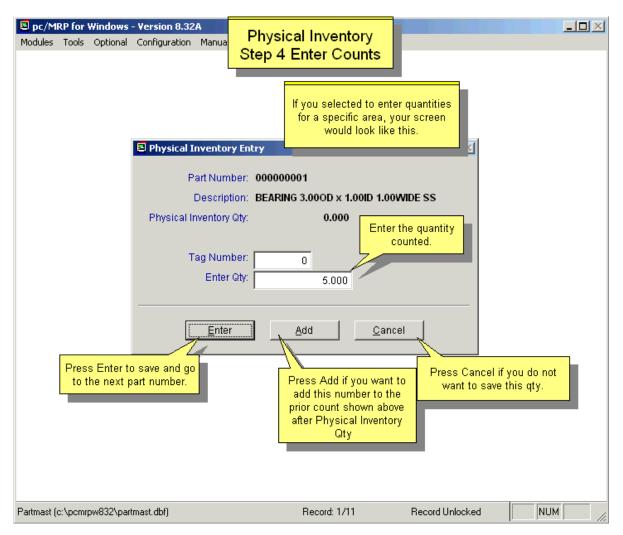
Select "Enter Physical Inventory Counts" and select and inventory area or All areas. You can **Enter** your counts manually or you can **Import** from a file. **Note:** When importing from file, pc/MRP will not offer to select All areas.

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:**



E VFP - C:\V832 (User: DO Modules Tools Optional C	-		Inventory ter Counts	5		
I Physical State	ical Inventory Coun	SC ree	selected all are n would look lik		X	
<u>.</u>	CAUTION: Phy Physical Inventor (Issues, Invoices	y counts must be	entered prior to a			
Part #	00000001	BEARING 3	.000D × 1.00ID 1.	00VMDE SS		
Tag #	Quantities		Quantities		Quantities	
STORE	S 0.000	RMA	0.000	Area-15	0.000	
TEST/M	RB 0.000	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	
INCOME	0.000	Area-12	0.000	Area-19	0.000	
ENGINE	ER 0.000	Area-13	0.000	Area-20	0.000	
QC HOL	.D 0.000	Area-14	0.000			
	Enter you for each		Ē	Enter	<u>C</u> ancel	
	areas in o	n to enter the o ne screen is a ersions 8.31A	vailable in		Enter to proceed next part number	
artmast (c:\v832\partmast.dbf)		F	Record: 1/11	Reco	rd Unlocked	NUM

If you select to import the counts from a .csv file (only available if you selected a specific area), the .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 b 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, only the part numbers in the list will be appended (added to the existing count) or replaced (replace the existing count). pc/MRP uses a program named 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. 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.

## 6.1.6 Total the Area Counts and Print a Variance Report

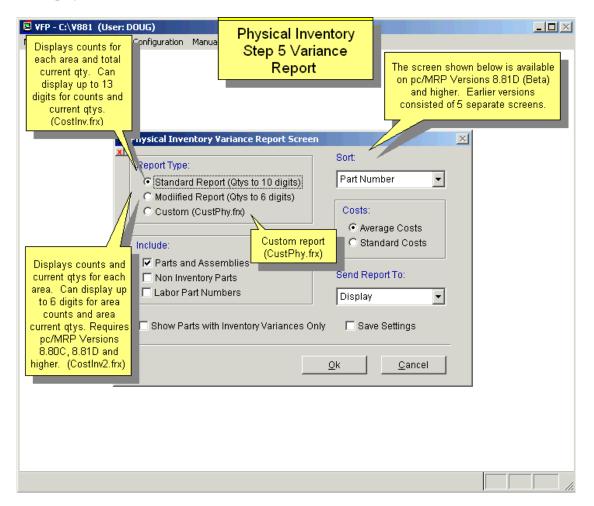
This report (costinv.frx) sums the area counts (invarea1-invarea20) and places the totals into the inventory **invtot** field. It also sums the current quantities (onhand, area2qty-area20qty) and places the total into the inventory **prevqty** field. This report allows you to compare the current counts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



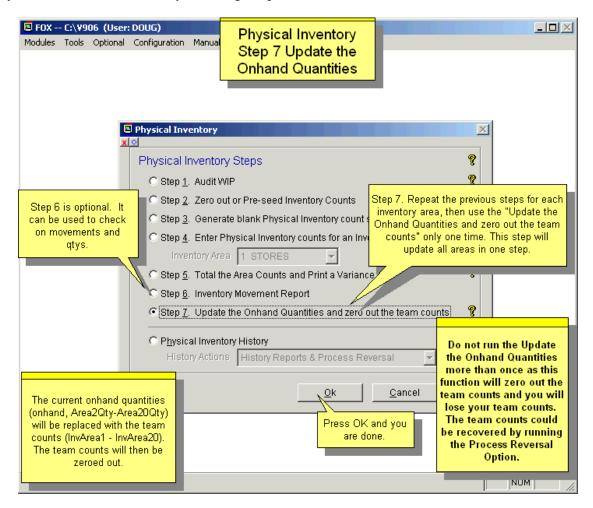
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## 6.1.7 Update the Onhand Quantities and Zero Out the Team Counts

Replaces the present onhand inventory quantities (**onhand**, **area2qty-area20qty**) 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).



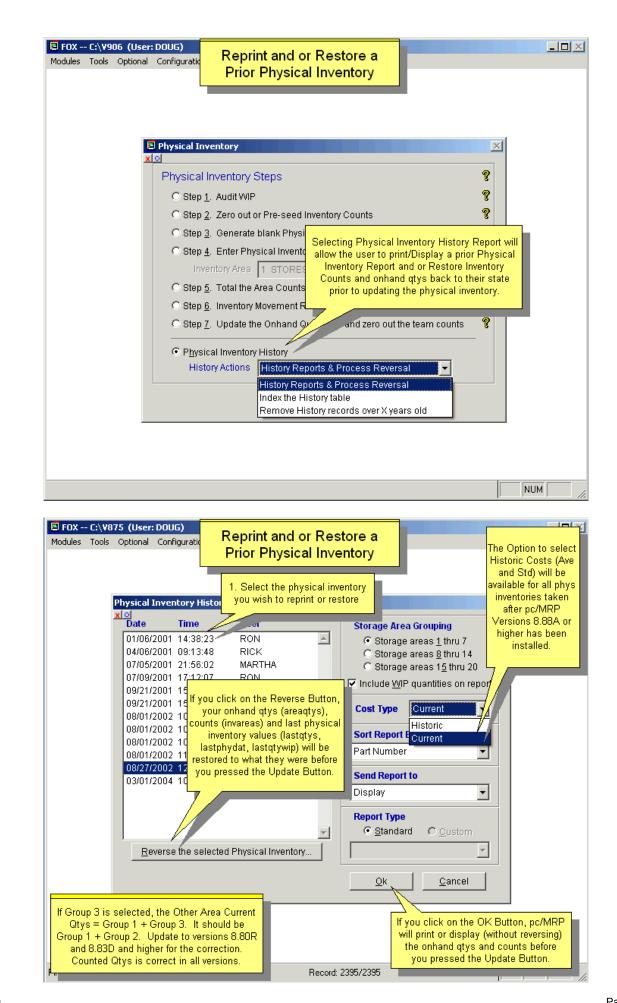
## 6.1.8 The Inventory Movement Report (parmovp.frx, movement.dbf)

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 Qty 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.

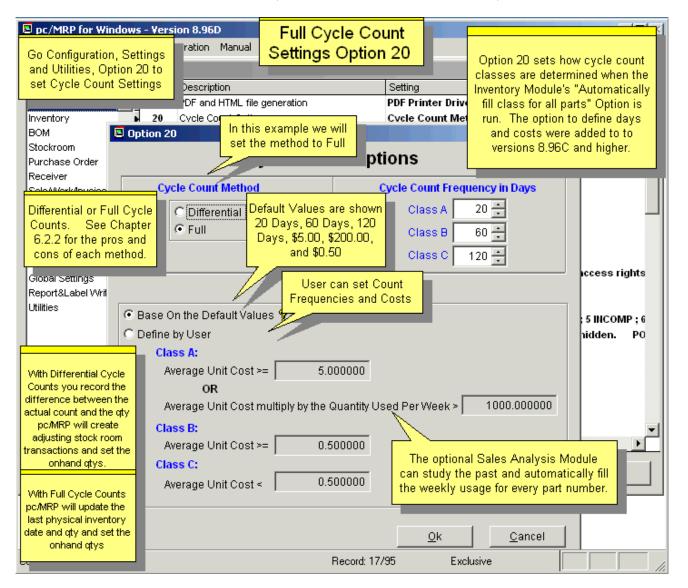


## 6.2 Cycle Count

Selecting the Cycle Count Option will display the screen below:

	Please select an option to perform.
Select:	Generate a blank Cycle Count Form     Enter Cycle Counts     Automatically fill class for all parts
	<u>O</u> K <u>C</u> ancel

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.



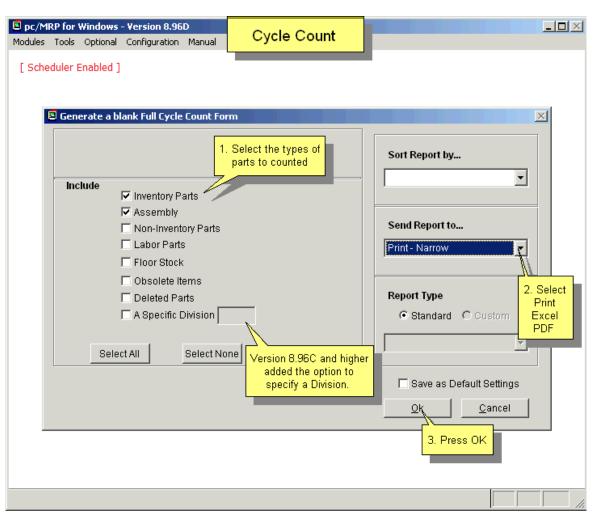
#### 6.2.1 Generate Blank Cycle Count Forms

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>. **Note**: In versions **8.95** and lower you could not change the default values.

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 partnumber may occur on consecutive cycle count forms, or may be skipped if there are changes in the number of items in the inventory database.



_	IRP for Windows - Ve Tools Optional Co t Preview - CYCLECN	onfiguration Manual Pi	Full Cycle Count S					_   D
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			I I I   ®	1	100% 💌		Tass B Cycle Count Position = Tass C Cycle Count Position =	
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	056384	IC ADS7807	16-BIT CMOS A/I	D SMD 28				_
	056392	CONN HDR 2	ROW 24 POS R	T ANGLE	-			
	060161	INDUCTOR 4			-			_
	060323		IG.MACH/ANODI	7ED	-			_
	060324		E XDUCER ANOD		-			-
					-			-
	060328		: '128 Up.Lvl. No		-			-
	062032	•	on Fuild int. no F					_
	062182	CONN D-SUB	PLUG R/A 37PO	IS GOLD				_
	062793	PCB, FLUID I	NTERCONNECT		_			_
	07137	Clear River U	MC Tester As			Demeillin		_
	072436	LABEL375"	X 1", WHITE***	*see Gale		Pencil in you	rcounts	_
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	08-005039-X2New		16MHZ 5V 44TQ					-
	08-005559-001R		J AVR FLASH 128	ЗК				-
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	080-904883-2	TechEn Harv	in Cable Assy		-			_
	080-904884	TechEn Harv	in Cable Assy			_		-
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pc/M dules Print 2100 2100	Tools         Optional         Co           t         Preview - CYCLEDI           2/2015         11:88:23.444           r         NUMBER         DI           00872         Wa           00836         Wa           00847         Wa	EFENT.FRX Print Pre FFENT.FRX Print Pre Id d DI ESCRIPTION thes Reh.Col. Est. RoHS thes United (90) Tasia RoHS thes United (90) Tasia RoHS	view	T RPEA STORES TEST/MRE STORES TEST/MRE STORES	LOCATE pc/MR pc/MR pc/MR	pc/MRP QTV 10.000 5.000 P'S Qtys 5.000 0.000 0.000 0.000 10.000	Cased Byte Cost Poster Case Byte Cost Poster Case Dyte Cost Poster	PLCE N CrCLED = 5 cf 20 = 3 cf 60 = 3 cf 120
pc/M dules Print : 11/12 : 11/12 : PART 21000 21000 21000	Tools         Optional         Co           E         Preview - CYCLEDI         2/2015 <td>EFENT.FRX Print Pre FFENT.FRX Print Pre Id d DI ESCRIPTION Mors Reh.Col. Ext. RoH5 Mars Untested (R0) Tesia RoH5 Mars THAR Hir. Crit. RoH5 Mars THAR Hir. Crit. RoH5</td> <td>view</td> <td>T PREA STORES TEST (MRI STORES TEST (MRI STORES TEST (MRI STORES TEST (MRI STORES</td> <td></td> <td>pc/MRP QTV 10.000 5.000 10.000 5.000 P's Qtys 5.000 0.000 0.000 5.000 0.000 5.000</td> <td>Grand Syste Courd Phatters Grand Syste Courd Phatters Grand Cyste Courd Phatters Courd Cyste Courd Phatters Cyty COUNTED Cyty Cyty Cyty Cyty Cyty Cyty Cyty Cyty</td> <td>PLOS IN CrCLBD = 5 cf 20 = 3 cf 60 = 3 cf 10</td>	EFENT.FRX Print Pre FFENT.FRX Print Pre Id d DI ESCRIPTION Mors Reh.Col. Ext. RoH5 Mars Untested (R0) Tesia RoH5 Mars THAR Hir. Crit. RoH5 Mars THAR Hir. Crit. RoH5	view	T PREA STORES TEST (MRI STORES TEST (MRI STORES TEST (MRI STORES TEST (MRI STORES		pc/MRP QTV 10.000 5.000 10.000 5.000 P's Qtys 5.000 0.000 0.000 5.000 0.000 5.000	Grand Syste Courd Phatters Grand Syste Courd Phatters Grand Cyste Courd Phatters Courd Cyste Courd Phatters Cyty COUNTED Cyty Cyty Cyty Cyty Cyty Cyty Cyty Cyty	PLOS IN CrCLBD = 5 cf 20 = 3 cf 60 = 3 cf 10

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STORES

TEST (MRB

STORES TEST/MRB

STORES TEST (MRB

STORE 5

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TEST (MRB

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22-1762-01E

ZZ-1784-01E

22-1785-01E

Waters 410R CPU no Rohs regid

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POB INSTANT PRICE DISPLAY LED LYM r

PCB LCD/TOUCH INTERFACE LYMInay A

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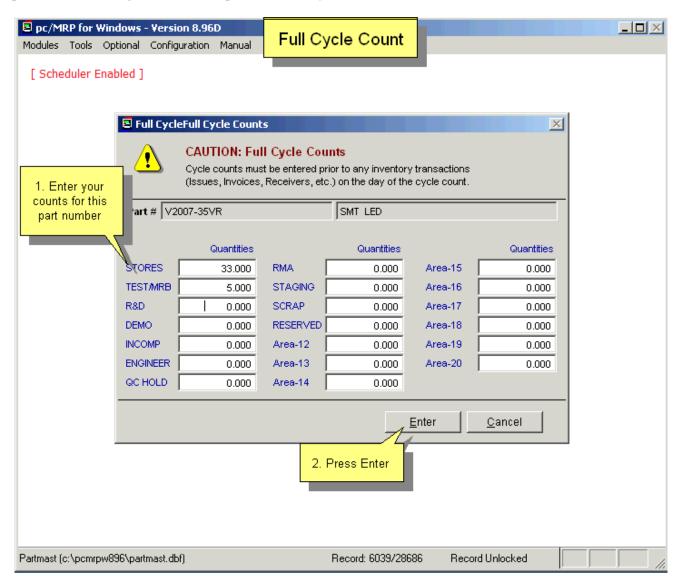
## **6.2.2 Enter Cycle Counts**

#### **Full Cycle Counts**

Allows users to rapidly enter the <u>cycle counts</u> 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 comma delimited ASCII files, in this case you will need to import each inventory area separately. 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 ASCII 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.)



#### **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.

pc/MRP for Windows - Version 8.96 Modules Tools Optional Configuration	Difforentia	l Cycle Count		
[ Scheduler Enabled ]				
📕 Differential Cycl	e Counts		X	1
	ION: Differential C	<b>ycle Counts</b> c/MRP qty and the count qua	ntity	
		the pc/MRP qty enter a posit pc/MRP qty enter a negativ		
		adjusting record and adjust		
Part # 210000872		Waters Reh.Cbl. Ext. Rol		
Fait# 121000072		Javalers Ren.con. Ext. Nor	15	
G	uantities	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		<u>E</u> nter	<u>C</u> ancel	
2. Press Enter				
Partmast (c:\pcmrpw896\partmast.dbf)		Record: 25913/28686	Record Unlocked	

#### 6.2.3 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. (**Note**: For versions **8.95** and older, the average cost values were pre-set, and the dollar amounts used per week were entered right here in Automatically Fill Class Fields for All Parts.)

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. Enter a New Purchase Order

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 the next available	- Version 8.83G	Purchase	e Order N	lew		
PO Number. PUrchase Order PO Number ONUmber Date Ordered 05/2	Utilities, C 04 set to p	ion, Settings an Option 74, can bo revent the PO om being edited	e ewly create	+		Back
Vendor Inforn	nation	Shipping Inform	ation	Item Info	rn ijon	Next
Vendor Acct#	I ⊻endor .		Vendor Contact		If an alternate selected the P both the base	O will print out
Street	Cost Per Unit can set to Ave, Last F Cost or Vendor Pi	PO	PO Request # Entered By Related Doc		the alternate cu Requires pc/M Currency	RP's Álternate
City State / Zip	List (Option 42). In latest case, if th	e 🛛 🛶	DoD Rating Requestor		_	Brea <u>k</u> down Delete
Country Vendor Ph #	Vendor Price List empty, the std cos be used.		Vendor eMail			Options
Item #_Part Number	Rev Description	Part Loo	kup 🗌	Pick Manufacture	er	Create Part
0001						Create Address
Model Number	Qty 100.000	Unit Cost Per	O.000000	% Tax % Discr		
I Comments	Displayed Ci			Time Required		Sales Import
omments		1. Enter the of allow pc/MRP quantity. OR if the std orde	quantity before to highlight th With 8.96A ar rr qty > 0 it wi	e entering the d e vendor with t nd higher you c Il insert the std	escription. This he best price for an leave the qty order qty, if the the Order Mult	that <sup>icel</sup> at 1, std

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.

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

pc/MRP for Windows - Version 8.83G Modules Tools Optional Configuration Manua Purchase Order New	
📮 Purchase Order	X
PO Number         000004         This is a newly created record that has not yet           Date Ordered         05/21/2014         been saved	Document Currency BASE CURRENCY Back Back
Vendor Information Shipping Information	Item Information
Select the desired Part record         D           Part Number         Pert Description         Model No	Links
000000004 000000012 PAPER OFFICE SUPPLY(NonInv	Breakdown Delete
	anufacturer Create Par <u>t</u>
Model Number Qi Unit Cost Per Unit % Ta:	x % Discrit Date Require Create Address
Comments Display 1. Enter part of the Description, Part Number or Model Number and press Enter. Not case sensitive.	Required     : :       Freight     0.00       NCNR Item     Cancel
Partmast (c:\pcmrpw883\partmast.dbf) Record: 1/11	Record Unlocked

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 Sock/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 partnumber. 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.

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

Bpc/MRP fo Modules Tool	ırchase Order New	Address, Phone, Fax, Contact, Terms, Related Doc, Email, Sales Tax and Discount inserted from the Address Book Module. Model #, Unit, Costs Manufacturer, Currency, Buyer (if empty, User's login), and NCRC from the Inventory Module.
😐 Purchase Order	r	The Vendor's Part Number is not inserted into this screen, but can be inserted into the purchase order as per Configuration Option 22 Purchase Order Settings.
	00004 5/21/2014 formation	record that has not yet been sa Display ndor rmati Map Item Information <u>N</u> ext
	accont	Veral Contact JOE SMITH Inserted from Login Name
Vendor Name BB	C MANUFACTURING COMPANY	Terms NET 30 Or Buyer. See Option 25
	TTN: JOE SMITH 1 SOUTH MAIN STREET	PO Request # Enter Contract or Entered By KIM Sales Order No
Í		Related Doc
City RIC	CHVIEW	DoD Rating Breakdown
State / Zip CA	A 8888	
Country US	ŝA	Change Change Mfg Enter Date
Vendor Ph # 980	0-112-1111 Fax # 980-112	2 Vendor eMail JSM@,
Item # Part Number	Rev Description	Part Lookup Pick Manufacturer 7
0001 000000001	ABC BEARING, 3" OD x	Create Part
Model Number	Qty Unit	Cost Per Unit % Tax % Discrit Date Require Create Address
555050-1	100.000 POUNI	IT 6.000000 0.000 0.00 12/12/2014 Sales Import
Comments	Displayed Currency	BASE CURRENCY Time Required 12:00:00
	ts can be entered	Freight 10.00 Einished
	r inserted from /. See Option 22. 3\partmast.dbf)	Check Confirmed if and when the vendor confirms the PO. Version 8.82A and higher.

- **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 #) 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.)
- **DoD Rating** (Department of Defense Rating). This is used to help determine the priority of defense contracts.
- Freight Amount.
- 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.

#### 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.

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

pc/MRP for Windows - Version 8.83G Modules Tools Optional Configuration Manua	<sup>D</sup> urchase Ord	er New		_D×
Purchase Order PO Number 000004 Date Ordered 05/21/2014 Vendor Information Chir Purchase Order Line Item Edit Form	This is a new record that h been saved	review and edit I Purchase Orde	s/Notes Button to line items and the er Notes Section	Back
Item #         Part Number         Description           0001         000000001         BEARING, 3" OD x 1" ID           0002         000000002         SPOKE	12/12	Required Order Qu 2014 100.00 2014 1000.00	6.000000	Links
Image:		dit Date Require y and Unit Cost		Add Clon <u>e</u> Brea <u>k</u> down Delete
Enter Boiler Plate Notes:      Thsi is a custom comment for the en	tire PO.	Sub Total:	1,600.00	Options
pc/MRP will auto insert the purchase		Discount:	0.00	Create Par <u>t</u> Create Add <u>r</u> ess
boiler plate text (if any) from Settings and Utilities, Option 22. Users can edi and save the Boiler Plate Notes for this purchase order.		Freight:   Total:   5	10.00 1,610.00	Sales Import
Displayed Currency: BASE CURREN	NCY Record:	Fir addit	i are done, press C hish. Slides 8-14 co tional advanced fea	DK and by the second se

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

To review your 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

pc/MRP for V	Vindows - Version	8.04E (User: DOUG)			
<u>M</u> odules <u>T</u> ools	Optional Configurat	tion Ma <u>n</u> ual			
Purchase 0	)rder		E	Edit/View the prior line item.	×
PO Number	000004		is an old record <mark>on</mark>		Back
Date Ordered	09/19/2005	Complete N		Edit/Vew the next line item.	
Vendor	Information	Shipping Infor	mation	Item Information	Next
Vendor Acct#					Items/Notes
Vendor Name		Vendor Address Lookup	Vendor Contact	Greate a blanket DO	
vendor Hame	BBC MANUFACTUR	ING COMPANY	Terms		Add
Street	111 SOUTH MAIN S	TDEET	PO Request #	Create a blanket PO	Clon <u>e</u>
		IREE	Entered By Related Doc	Delete e line item	Breakdown
City	RICHVIEW		DoD Rating		<u>D</u> elete
State / Zip	CA	88888	Requestor		
Country	USA		_	10003	Options
Vendor Ph #	980-112-1111	Fax # 980-112-1112		Create a new part number	Log
				Pick Create a new address	Create Part
Item # Part Num		Description Part Lo BEARING 3.000D x 1.00ID 1		PICK Create a new address	· · · ·
Model Number		Qty Unit Cost F	Create a li	ne item from a sales order.	Create Address
555003-1		100.000 POUNIT	6.0000	0.000 0.00 12/12/2005	<u>Sales Import</u>
Comments		Displayed Currency BASE		Time Required 12:00:00	
MUST BE CHROI	ME PLATED	<u> </u>		Freight 10.00	<u>F</u> inished
			onfirmed		
<u> </u>				Click on Finish Button to s pc/MRP will increase th	
				quantity of each item	
Partmast (c:\pcmrpv	w\partmast.dbf)		Record: 1/13		

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

STATES.	Vindows - Version 8.83G Optional Configuration	urchase Order Cl	one Button	
Purchase 0 PO Number Date Ordered Vendor Vendor Acct# Vendor Name	000004         Change #         0           05/21/2014         Complete         •           Information         •         •	from the data table Shipping Information ddress Lookup	BASE CURRENCE Item Information	Back Next Items/Notes
Street	ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW	PO R Entered I Related D	1 Sill	Add Clon <u>e</u> Breakdown
	e number of additional tems to be created.	Number of clones to create 3 ÷	1 Enter the da between lin Day(s) Week(s) Month(s) Cancel 0 12/12/201 d 12:00:00	e items
Partmast (c:\pcmrp	w883\partmast.dbf)		e blanket PO.	em <u>Cancel</u>

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

## 7.1.11 Creating blanket purchase orders with the Breakdown Button

Purchase Order Breakdown Button     Purchase Order Breakdown Button     Purchase Order     Po Number 000004     Change # 0     This is an old record pulled     Document Currer     Date Ordered 05/21/2014     Complete N     Vendor Information     Shipping Information     Item Information     Item Breakdown					
Part# 000000001			I Required: ounted For:	100.000 30.000	╺┯╼╼╼┑┎╝┙╵
Description BEARING, Ente	the quantitities.	S	till Needed:	70.000	Add
10.000 12/12/201	Enter the du	<mark>e dates.</mark>	0.000	11	Clone
20.000 01/01/201	5 0.000	11	0.000	11	Breakdown
0.000 //	0.000	11	0.000	11	Delete
0.000 / /	0.000	11	0.000	11	Options
0.000 / /	0.000	11	0.000	11	Log
0.000 / /	0.000	11	0.000	11	Create Part
0.000 / /	0.000	11	0.000	11	Create Address
0.000 / /	0.000	11	Click on	OK to	Sales Import
0.000 / /	0.000	11	create blanke		
0.000 / /	0.000	11	Dianke		Einished
Qk     Cancel       Qk     Cancel       Partmast (c:\pcmrpw883\partmast.dbf)     Record: 1/11					

Press the  ${\bf Breakdown}$  Button to create a blanket purchase order with uneven dates and qtys. Page 136

## 7.1.12 Using the Options Button

	Vindows - Version 8.83G Optional Configuration Purchase Order Options Button	_D×
Purchase O	Change # 0     This is an old record pulled     Document Currency     from the date table	X
	Complete N     BASE CURRENCY     Shipping Information     Item Information	Back Next
Vendor Acct# Vendor Name	BBC001 Vendor Address Lookup Vendor Contact JOE SMITH	tems/Notes
Street	ATTN: JOE SMITH PO Request #	Add
City	RICH Lookup by Whole Database, Starts with Entered Characters, Contains Entered Characters	<u>Clone</u> Brea <u>k</u> down Delete
Auto Look-	up e Database	  Log
,	Print Mailing Labels for Look-up pricing information Look-up pricing information Look-	edit header method to Sync on each item.
- Price loc Price coming	iling Labels <u>T</u> erms & Conditions okup everytime you change qty. will be Ave, Last PO Cost or from the Vendor Price List (set on 42). In the latest case, if the	tions, select the
	Terms and Condition of the states of the sta	ions for this PO.

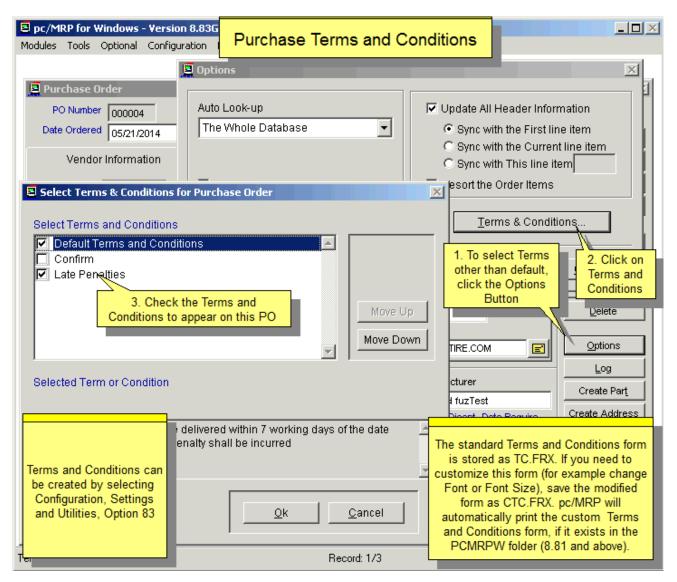
The Auto Look-Up Drop Down List Box will allow you to set the look-up method for part numbers and addresses.

- **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.
- **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.

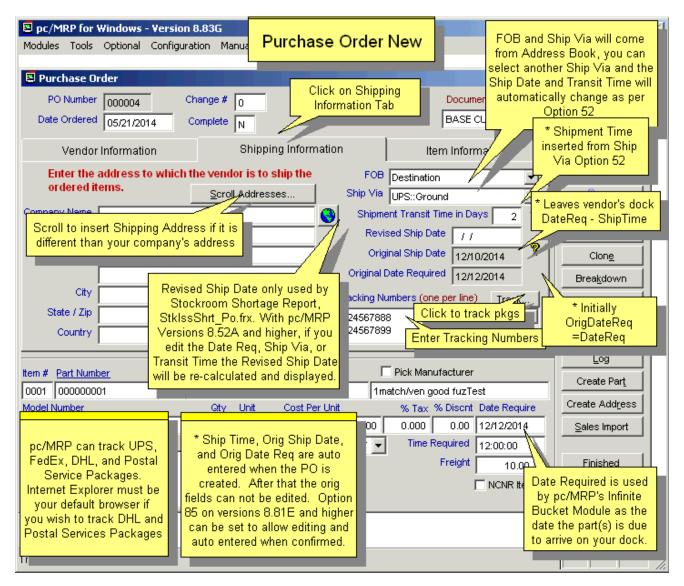
## 7.1.13 Using the Terms and Conditions Button



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 Shipping Information Page



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.

#### 7.1.15 Item Information Page

Dec/MRP for Windows - Vers Modules Tools Optional Confi	D	chase Order N	ew	_0×
Purchase Order PO Number O00004 Date Ordered O5/21/2014 Vendor Information Received Qty Rejected Qty Date Rovd /// Time Recd :: On Time Del As:	0.000 0.000	tically when the are received.	Item Information Cher Disco reight is Taxable viscount is Taxable	b ck if Freight or bunt is Taxable Links Add Clone tinsert
tem # <u>Part Number</u> Re	BC BEARING, 3" OD × 1"	Part Lookup	Configuration Option 78 determines if the Div is inserted from the Address Book or Inventory (Should	Options Log Create Part Create Address
S55050-1 Comments	100.000 POUNIT Displayed Currency	6.000000	be numeric).	Sales Import
Partmast (c:\pcmrpw883\partmast.d	<b>▶</b> f)	the PO and increas ordered. The remain	on the Finished Button to see the qty onorder for each ite addition the addition the above buttons on the rig	m al

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**.

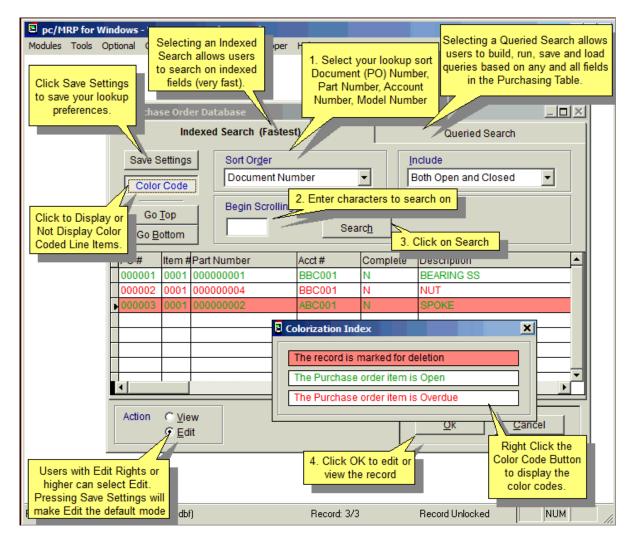
The Rev Ship Date, if used, is only shown on the Stockroom Shortage report. Not used by MRP.

Please note that the **Rejected Qty** is updated with a 'Return to Vendor' (Section 7.7) transaction. If you repair the rejected quantity in-house, you must modify the **Rejected Qty** manually so the ISO9000 report is accurate.

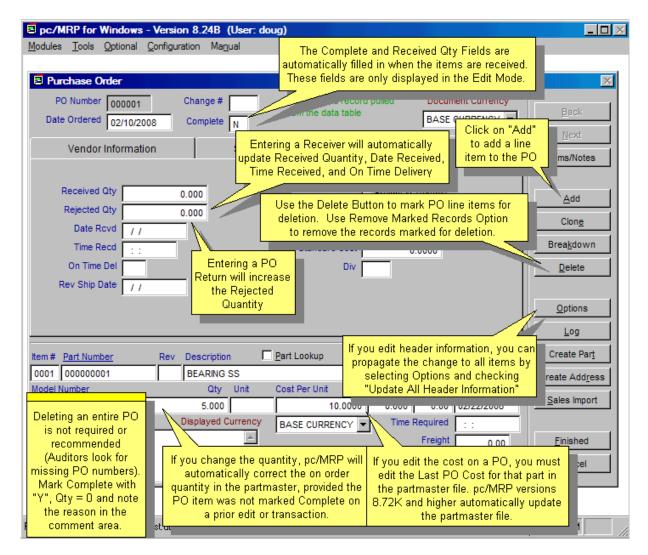
## 7.2 Edit a Purchase Order

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 **Qty 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 **9.06A** and lower only allowed the user to delete line items one-by-one, and lower allowed any line item to be marked for deletion.

# 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.

FOX C:\V896 (User: DOUG) Modules Tools Optional Configurati User Password & Access Rights				With versions 9.00 ar can be assigned rights and approve POs and	to digitally sign
THE R.					· · · · · · · · · · · · · · · · · · ·
	Password 📥	EDI Inv Areas	PO Approval	PR Approval	
ROB YA	ABA	N Edit	No Approval Rigl 💌	No Approval Righ 💌	
▶ RON RO	ON 🚬 🕨	N Edit	Level 1 Approval 💌	Level 1 Approval	
500 SC	00	N Edit	Level 2 Approval 🔻	No Approval Rights	
Editing releas	a a a sign f	MRP's Optional Pas PO Approval Rights,		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>O</u> k	Cancel	Next
Wp_temp			Record: 3/7	Exclusive	tems/Notes
		COMPANY	Vendor Contact		A Links
AT	TN: JOE SMITH		PO Request #		<u>A</u> dd
Street 111	1 SOUTH MAIN STREE	🚊 Purchase Order	Approval	×	Clone
		x o	Signature	<u></u>	Breakdown
City RIC	CHVIEW	-	Signature		Delete
State / Zip CA		<ul> <li>Level 1 Approval</li> </ul>		Insert Signature	Delere
Country US/	A	Level 2 Approval	Xim	Remove Sign	Options
Vendor Ph #	F	a: _ Level 3 Approval	Ron	That person could then edit a PO, Press the	
ltern # Part Number	Rev Desc	- *	A	pproval Button and Insert	Create Par <u>t</u>
0001 000000001	BEA	_ Level 4 Approval		heir signature at the level	Create Address
pc/MRP's Optional Tickler Task       Manager Module will allow users to send       Y: To request a signature from an       they are approved for.       Sales Import         a message to a user requesting he insert his approval signature on a PO.       Ok       Approval					

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.

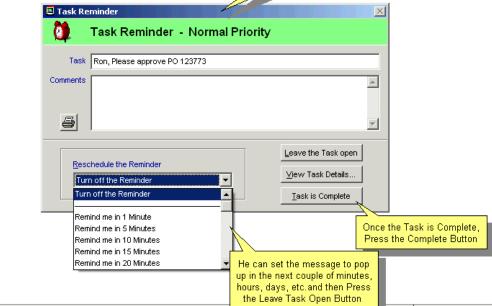
Purchase Order	PO / PR Approva Purchasing Scree This is an old record pu from the data table	approve F Level 2, h and o signature BASE CUF Insert Bu	user has rights to urchase Orders at or she can Insert Remove their at Level 2 and or 1 (a lower level I). Pressing the tton will insert the
	ping Information	ltem Informat User's	s log in name.
Vendor Acct# BBC001 Purchase Order	Approval Signature		
ATTN: JOE ST Street 111 SOUTH M Level 2 Approval	Xim	Insert Signature	<u>A</u> dd  Brea <u>k</u> down
City RICHVIEW Level 3 Approval State / Zip CA	Ron	Ingert Signature	 
Country USA Level 4 Approval	Doug	Ins <u>e</u> rt Sign vre	Options
Vendor Ph #         FYI: To request a           Item #         Part Number           0001         000000001           Model Number	signature from an approve	er, press F4 This user does no insert their signat Level 4 Approval with higher appro already appro	ure for Level 3 or . Other people oval rights have
5.000	10.000000	0.000 0.00 09/20/2015	Approval
Comments Displayed Currenc	y BASE CURRENCY ▼ Confirmed NCNR Item	Time Required ::: Click the Purchase Order Approval Button to bring the Approval Screen above	up <u>Cancel</u>
Partmast (c:\v896\partmast.dbf)	Record: 1/11	Record Unlocked	

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

BBC MANUFACTURING COM ATTN: DE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	PANY		123 MAIN	E TECHNOLDGI			
	REV DESCRIPTION	DATE REQ	QTY	UNIT	PRICE	total Price	
0001 0000000000000000000000000000000000	BEARING SS	09/20/15	5		10.00	50.00	
DF THE HTML GENERA Including the Abili PO boiler plote	NDRED TO TEST THE FUNCT TIDN PROCESS. ITY TO SKIP BLANK LINES.	Approv appear a PO and P		res will om of the st Forms ALS FOR PONO		50.00 0.00 50.00	
APPRDVALS: Level I: _	Level 2: <u>Xu</u>		3 <u>An</u>	_ Level <b>4</b> <u>An</u>	<u>\$</u>		
(c:\docume~1\doug\locals~1)	stemp\35973724.dbf)	Reco	ord: EOF/1	Ex	clusive		

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 V	Windows - V	ersion 8.	Sandara	auco	to Approvo o	PO.		_ 0	×
	Task Propert	1. Ty your r	pe in equest	2. Che want th pop up Task I pop u	t to Approve a ck Reminder. If you be msg to the user to o right away, set the Manager Settings to up within 1 minute. Priority			✓ 4. Select Working	
Pr	· · ·	7/2015 04:1 Comments	6:05 PM 🗨 🖊	, 	Category Status	Sales Follow Working	-up 💌		
Relateditems	Properties Created Created D Assigned Due D	ate 11/17	2015 03:16:05	he pers	Completion Status Date Started Completed by Completed Date Completion Stage Completion Stage	2k 5. P OK k is ager.	•		
DC/MRP for V Modules Tools			<mark>Recei∨ing</mark>	a rec	<mark>uest to Appro</mark>	ve a PO			×
Ľ	E Task Rem		ninder - No	ormal	The person receivi will see the follo Priority	· · ·			
	Task F Comments	Ron, Please a	approve PO 12377	73					



## 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.

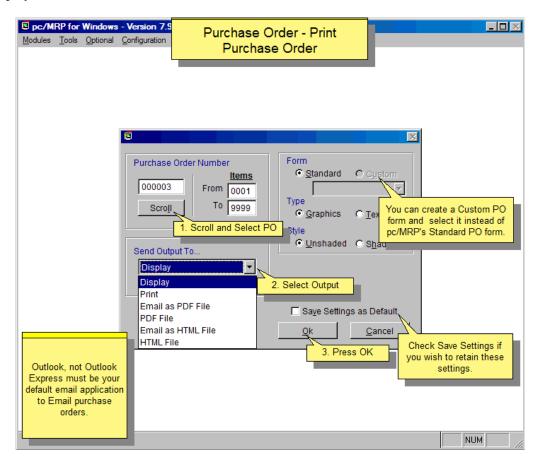
**Note:** You must then run **Audit Onorder Qtys**, or find the part(s) in inventory and click on the Display & Update button next to the Onorder value. Alternatively, you could edit the PO to qty 0, before deleting the record. This will take care of the Onorder quantity.

## 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**. (**Note:** In versions **9.04** and lower Buyer was always the buyer of the original PO.)

## 7.6 Print, Display, E-mail, or Fax a PO

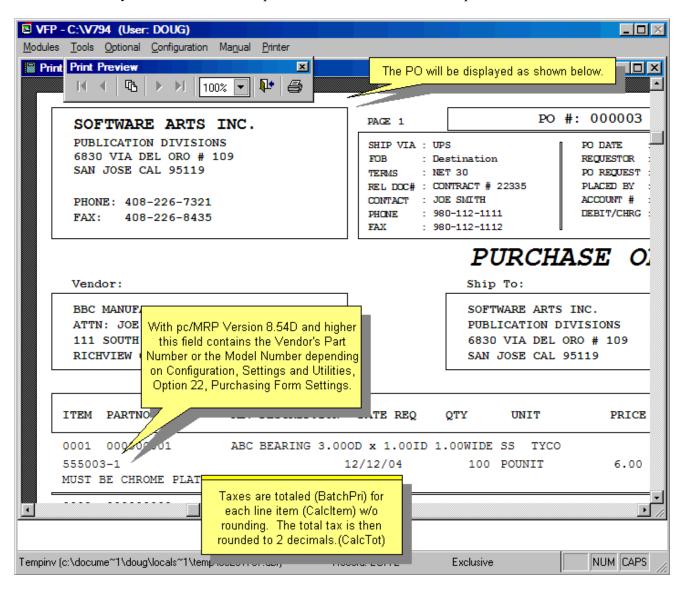
To print, display, e-mail or fax a PO select Modules, Purchase, Print and the screen shown below will appear.



Configuration, Settings and Utilities

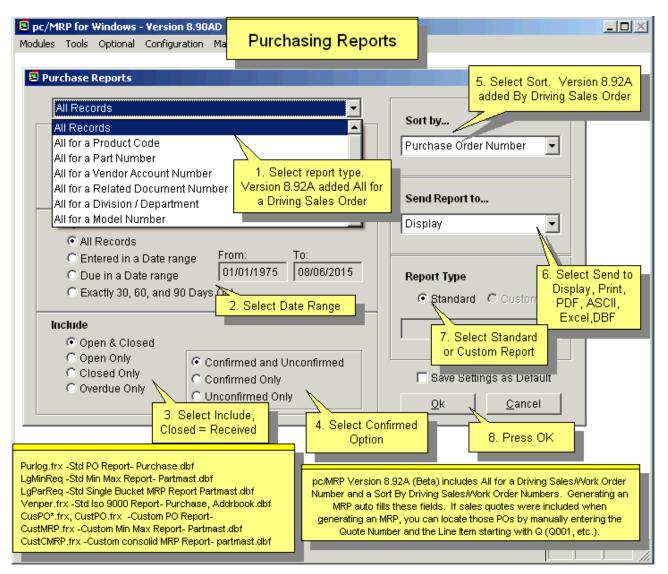
- **Option 24** allows you to create custom purchase order forms.
- Option 22 allows you to add up to nine lines of Notes to all purchase orders.
- **Option 83** allows users to add selectable Terms and Conditions for purchase orders.

Purchase orders may be folded in three and placed in a double window envelope.



# 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.

VFP - C:\V872 (User Modules Tools Optiona	al Configuration Ma	Purchas Vendor F	ing Repo Performar					-DX -BX
Print Preview	▶ ▶I 100% ▼							
DATE : 07/15/201		ING VEN	Orig Date		MRP Vers	ions 8.72	AA, 8.73E	(V
"ALL FOR ACCT AB	COO1 BY ACCT" ER DE SCRIPT.	ION DATE REQD	TIME DUE	DATE RECVD	TIME RECVD	ON TIME	QTY ORDERED	QTTS
VENDOR ABCOOL PO # 000003 0001 000000001 VENDOR TOTALS: #0 VENDOR RATING: VENDOR ACTION: SIGNATURES : QA		" OD O6/10/13 ONTIME DEL%: SATISFACTORY PROBATION	0.00% %(	QTY ACCEPT	RD: 100.00	D*	1.00 1.00	
RATINCS SCALE The Vendor Perfor Purchase Database Partmast and PartVe	GOOD SATISFACTORY POOR POOR = CA mance Report uses File with the Addr	>75% 55%-75% 0%-50% USE FOR IMMEDI the The C Book, Retur	CEPTED QUANT >90% 80%-90% <80% ATE REVIEW Oty Accepted rned (Modules Accounting	= Qty Rec s, Purchas	ing, Returi	v rece tł Requ Dat	Time is determ when the part i ived. pc/MRP ne Original Dat uired or the Cu re Required as figuration, Sett Utilities, Optio	s uses rrent per ings

# 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.

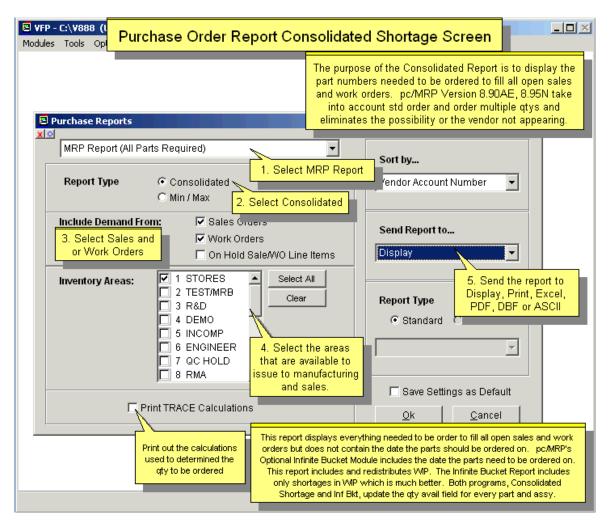
**Note:** For an advanced MRP method, see the optional Infinite Bucket MRP module in Chapter 16.3 in this Manual.

# 7.7.3.1 Min/Max Report (lgminreq.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.

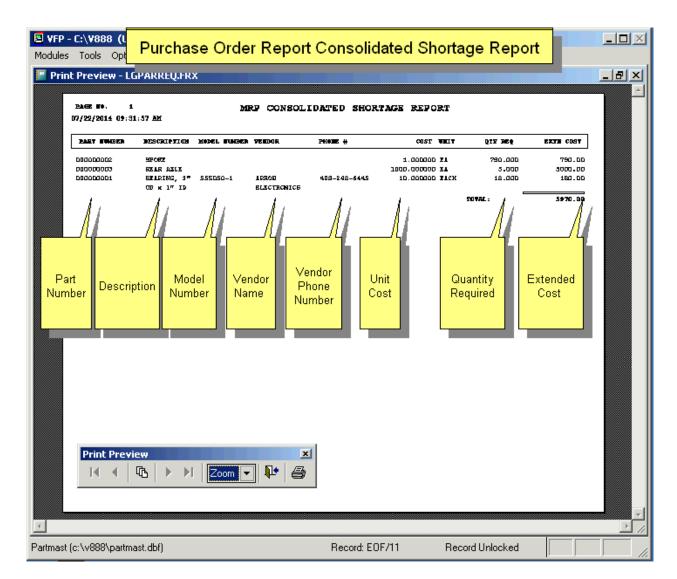
# 7.7.3.2 Consolidated Single Bucket MRP Report (lgparreq.frx)

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

Contraction of the Contraction o	lows - Version 8.95L ional Configuration Ma	Purchasing Reports All For a Driving Sales/Work Order	pc/MRP Version 8.92A added the option to display and print All for A Driving Sales/Work Order and Sort and subtotal by Driving Sales/Work Order
🞴 Purchase	Reports		
All for a	a Driving Sales/Work Or So/Wo#		Sort by Driving Sales/Work Order Nu
Range	I Records		Send Report to Display
When the Infinite Buc file with Buy, PO (exi the driving sales orde PO action item in the . and the exiting POs m generation it will oper (Action.ActReIDoc) a DrvSoNo and Drvitem When a user runs the cursor from action.dt creates an empty MT as per tempart. If the quantities. It will then	sting POs), etc. action item r (Action ActRelDoc) and Action Database File as thi ay be needed for other se nup the purchase dbf file a nd itemno (Action ActRellto No Fields. e Auto Create Purchase Or if with only Buy records a EMPART2 Alias Action tab user selected Consolidate n create new POs based of	rview: D2Gen.prg) it creates an Action database is. It will make a FRESH determination of itemno (Action.ActRellte) for each Buy ar e sales orders. Towards the very end of the and inserts the driving sales e) into the existing purchase orders rders (AutoPo.prg) it creates a tempart nd starting dates within the range. It le. It fills Action with parts to be purchase it will create 1 record for multiple buy on the action cursor using the Action Curs and Purchase.DrvitemNo Fields.	nd Save Settings as Default Ok Cancel

#### 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

Zeros 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 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.

#### 7.11 Queried Search Overview (see 15.14.1)

#### 7.12 Indexed Searches (see 15.14.2)

#### 7.13 Index (see 15.14.3)

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

#### 7.15 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.

#### 8.1.1 Receiver Data Entry Screen Vendor Tab

pc/MRP for Windows - Version 8.72AC     Modules Tools Optional Configuration Manua	ering a Receiver
Creating a New Record      Receiver # 000001     Last Change / /     P0 # 000001     Date Received 08/23/20	Document Currency BASE CURRENCY
Vendor Information St	hinping Information Item Information
Vendor Acct # BBC Vendor Name BBC Vendor Name BBC ATT Street 1111 City RiCH State / Zip CA Exercise Country USA Country USA Country USA	Vendor Contact Vendor Phone Vendor Fax Vendor Fax Vendor eMail Terms
Model Number Serial #	Gty Received Unit Price Tax % 5.000 10.00000 0.000
Comments Hust be chrone place If applicable, add additional comments such as weight, condition, etc.	Discleved Currency BASE CURRENCY ▼ Disc % Freight Location Area 0.00 0.00 1 STORES ▼ Note: The Receiver Boiler Plate is set in Settings and Utilities, Option 22 and can not be edited in the receiver data entry screens. ↓ Location data comes from the PO, which received it from Inventory at the time when the PO was created. See Options 16 and 44.

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	×
Creating a New Record       Image: Creating a New Record         Receiver # 000001       Last Change / /         PO # 000001       Date Received 08/23/2013         Vendor Information       Shipping Information         Requestor       Doug         PO Req #       If applicable enter the name of person the package was delivered to.         Delivered To       Tracking Numbers (one per line)	
Received By     Doug 11:20:51     1919329393       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       Model Number     Serial #     Qty Received     Unit     Price     Tax %       5.000     10.000000     0.000       Comments     Displayed Currency     BASE CURRENCY     Image: Comments       Must be chrome plated     Disc %     Freight     Location     Area       0.00     0.00     1     STORES     Image: Comments	
Image: Concel       Image: Ok       Image: Ok </td <td></td>	

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 8.72AC Modules Tools Optional Configuration Manua	ering a Receiver
Creating a New Record  Receiver # 1000001 Check if Freight or Discount is taxable.  Freight is Taxable Asset / Expense Acct Pay Date 09/22/2013	Shi Asset or Expense Account to Debit Aux Div PO Date 08/05/2013 Date Required 08/17/2013
	On Time (Y/N) N Standard Oost 0.000000 st from partmast if a file sh 0 RECSCOST.FLG exists Manufacturer
Model Number Serial # Comments Must be chrome plated Press OK to receive line item, q order will decrease, average cost received => qty ordered, PO v	t will be re-calculated. If qty
Purchase (c:\pcmrpw872\purchase.dbf)	Record: 1/2 Record Unlocked

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".  $pc/MRP \ V9.10$ 

When a new receiver is entered, pc/MRP will automatically calculate and update the Average Cost:

If the new cost  $\geq 0$  and quantity received > 0 and the old cost > 0 and the quantity on hand  $\geq 0$ , 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>



If the PO line item has already been fully received, pc/MRP will generate a warning allowing the user to continue or cancel.

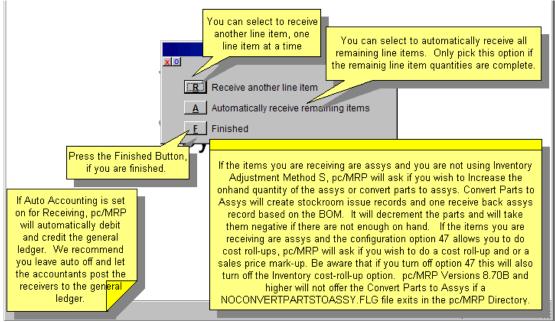
Once the initial line item has been received, pc/MRP will prompt you to "Receive another line item", "Receive all of the remaining line items on the original PO", or "Finish".

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.

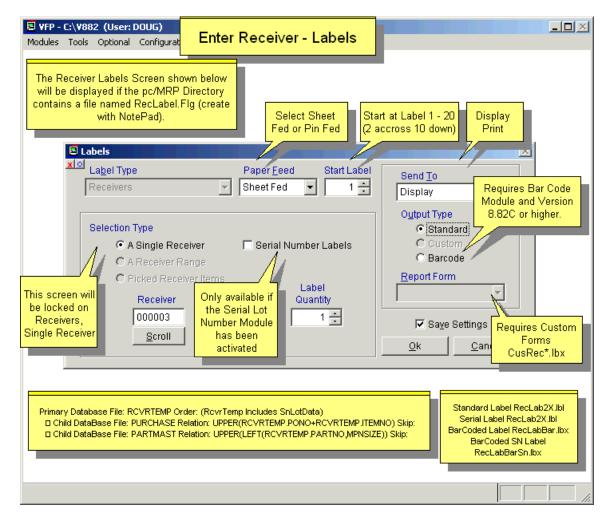
If **Auto Accounting** is Off for receivers, the accountant should go into Accounting and enter a new I type transaction to debit and credit the general ledger. A "Y" will be inserted into the receiver's Posted field.

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.

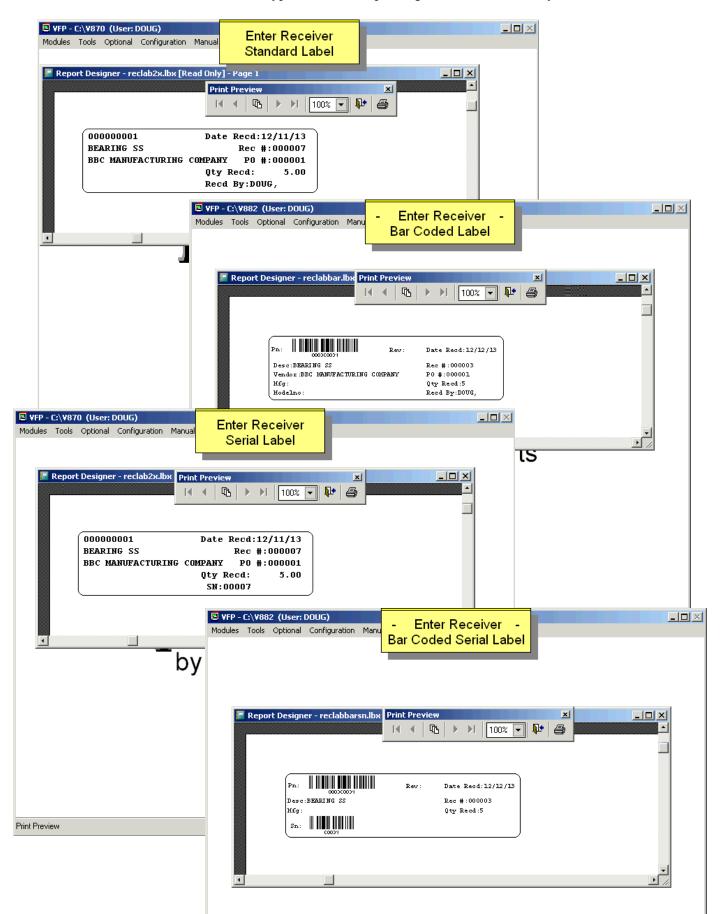


## 8.1.4 Receiver Data Entry – Print Labels

If a file named **RECLABEL.FLG** exists in the PCMRPW folder, pc/MRP will offer to print receiving labels.

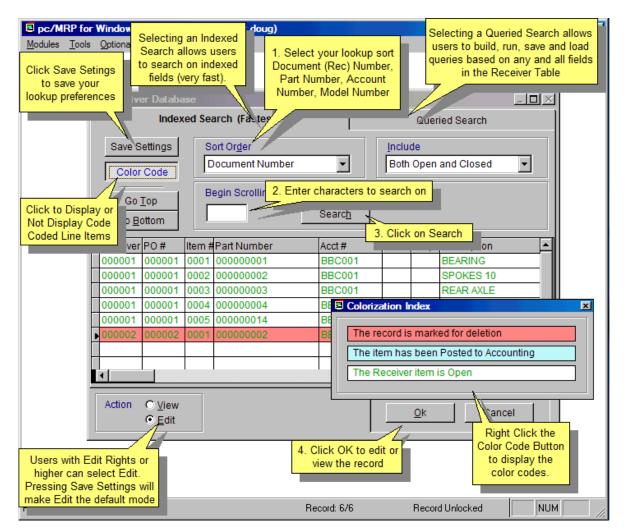


Users will be able to select from several types of labels (depending on what modules they have activated).



#### 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:

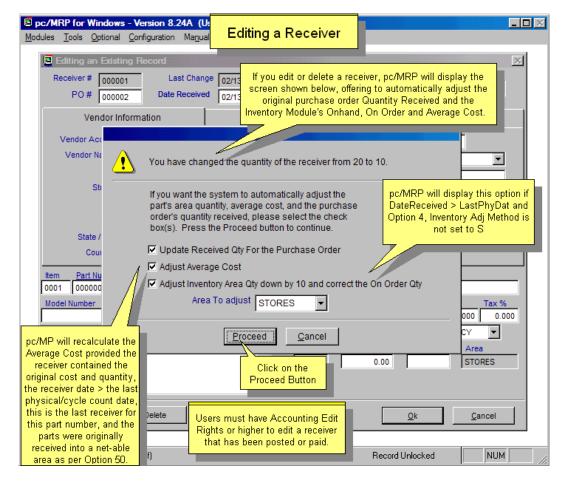
- Indexed Search tab
- Desired Sort Order
- Desired **Include** information: Open, Closed, Both Open and Closed
- Enter the applicable data in the **Begin Scrolling At**: field (i.e. the beginning of a vendor ID)
- Press Search
- Select the desired Action: View or Edit

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 8.24B	(User: doug)			- 🗆 ×
Modules Tools Optional Configuration Ma	anual			
The Posted Field is 1g Record				×
only displayed in Last C	hange 02/26/2008 Complet	e 🔽	Document Currency	
is automatically 2 Date Rec		- <u>-</u>	BASE CURRENCY	
filled in when the	1	. When the r	receiver is paid in full,	
invoice is posted. ormation	Shipping Informat	pc/MRP will	automatically insert a	
	is Taxable nt is Taxable	"Y" into	the Complete Field	
Dex / Charge		Div		
Posted		PO Date //		
Pay Date //	D	ate Required //		
	0	n Time (Y/N)		
Amount Paid	St	andard Cost	0.0000	
	0.00	this example the R		
Check#	"	Quantity will be cha	anged	
Item Part Number Rev	Description	from 20 to 10.		
The Check #, Amt Paid, Date Paid	SPOKES 10	/	ALLOY >>	_
and Complete Fields are only	erial # Qty reg	20.000 EA	Price Tax %	
displayed in the edit mode and are automatically filled in when	I	Displayed Currency:	BASE CURRENCY	
accounting makes a payment.		Freight	Location Area	
	In pc/MRP Versions	0.00		_
	8.20N and higer. users		Press the OK Butto save your change	
	must have accounting edit		Save your change	2.
LogBook Un-Delete	rights or higher to edit an invoice that has been		OK Cancel	
	posted or paid.			
Receive (c:\pcmrpw824\receive.dbf)	. 6/6	6 Record	Unlocked NUM	



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  $cost \ge 0$  and The part's original inventory qty  $\ge 0$  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  $cost \ge 0$  and The receiver's  $cost \ge 0$  and The received qty  $\ge 0$ 

If any of these conditions is not met, pc/MRP will NOT re-calculate the weighted average.

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 the receiver, edit the receiver number to match the previously entered receiver and edit the line item number to match the next line item in sequence.

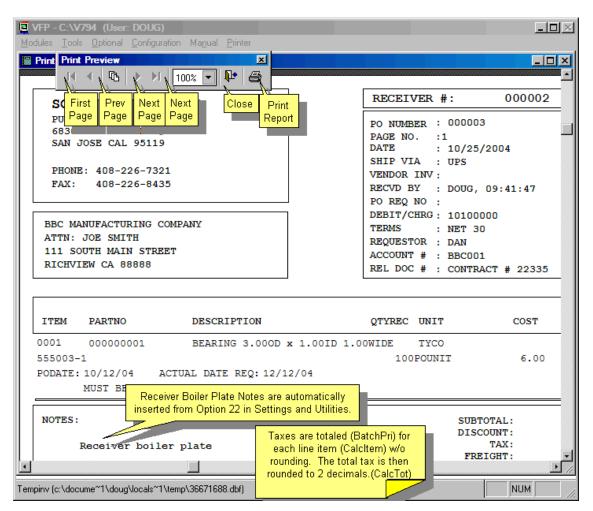
The **Complete, Amount Paid, and Check Number Fields** are displayed only in the edit mode and are filled in automatically when Accounting records a payment towards this debt. The Amount Paid field contains the accumulative amount paid. pc/MRP uses the Complete field to determine if a record is open 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).

#### 8.3 Print/Email Receiver



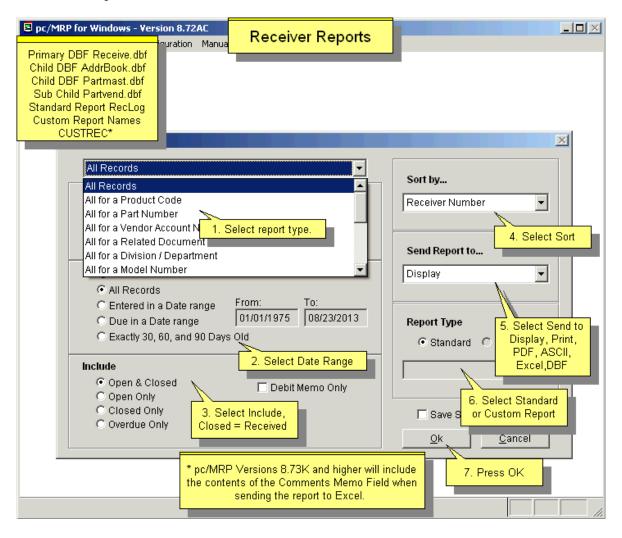
This option will print, display or send the receiver to email or to an HTML document to be attached to an e-mail. Using programs like WINFAX users can also directly fax from pc/MRP. The Receiver is rec.frx. Furthermore, if the flag file **DMMAILLB.FLG** exists, an address label for the vendor on that receiver will automatically be created from the CUSTARD\*.LBX or the CUSARD\*.LBX.

If you send an e-mail directly from pc/MRP, 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. If you create an HTML 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, faxed (with a program such as WinFax), 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**

pc/MRP for Windows - Version <u>M</u> odules Tools Optional Configurati	Print Receiver	Box Labels			
Label Generator           Item #         Part Number           0001         000000001           0002         000000002	Description BEARING 3.000D SPOKES	x 1.00ID 1.00WID	Enter the	Quantity I 10.000 100.000 e number of er line item	Boxes
Receiver # 00 Item # Purchase Order # Part Number Manufacturer	0002 RecLab.Lst contain labels RecLabQty (Qr RecLabBox (Box ) Custom labels must CusRec*.Ibx or Cus	is a list of ty XX of XX) XX of XX) : start with	ivered To FOB		
quantit	to specify ies per box		Output To O		Start at Label
✓ Specify Individ Workfile (c:\docume~1\doug\locals~1\ter	ual Box <u>Q</u> uantities	Help Record: 2/2	<u>Q</u> k Exclusive	<u>C</u> ance Press OK	Number

Select Modules, Receiving, Print Labels to print labels for receivers as shown below:

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.

#### 8.6 Queried Search Overview (see 15.14.1)

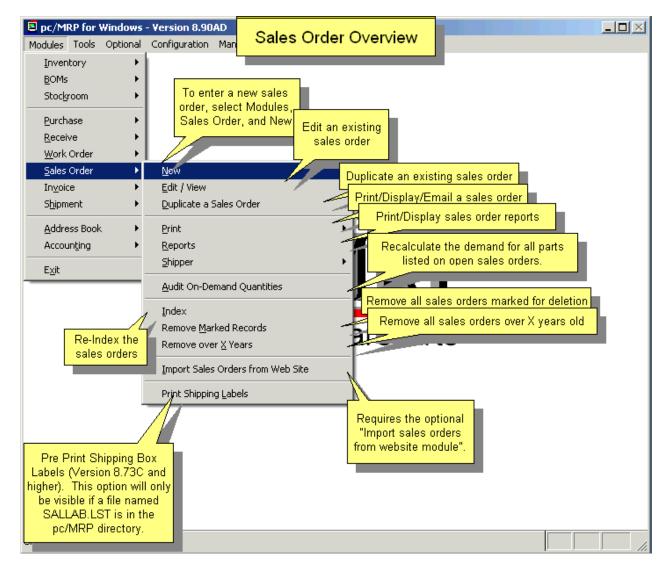
8.7 Indexed Searches (see 15.14.2)

8.8 Index (see 15.14.3)

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

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

# 9.1 Overview. Enter a New Sales Order

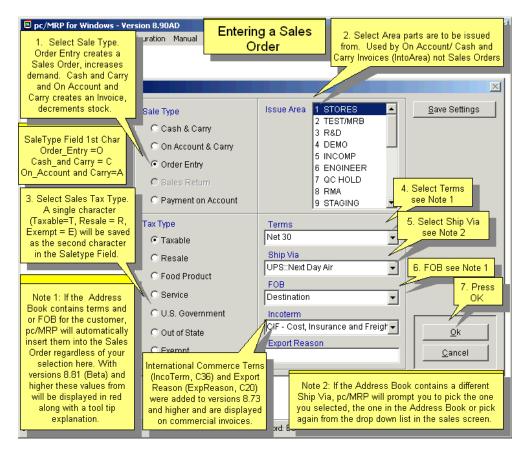


pc/MRP's Sales Module allows you to enter, edit, and print sales orders and print sales order reports. If a sales order is entered as a "cash and carry" or as an "account and carry" order, pc/MRP will create an invoice and decrement the on hand quantity in inventory (configurable in **Option 4**). If 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: <u>http://www.pcmrp.com/mrp101/saleselectnew.htm</u>

# 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 (O) -- 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. The overwritten value will turn red and a tool-tip-message explanation appears (**8.94A** and higher). 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 (**8.81D** and higher) 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

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#.

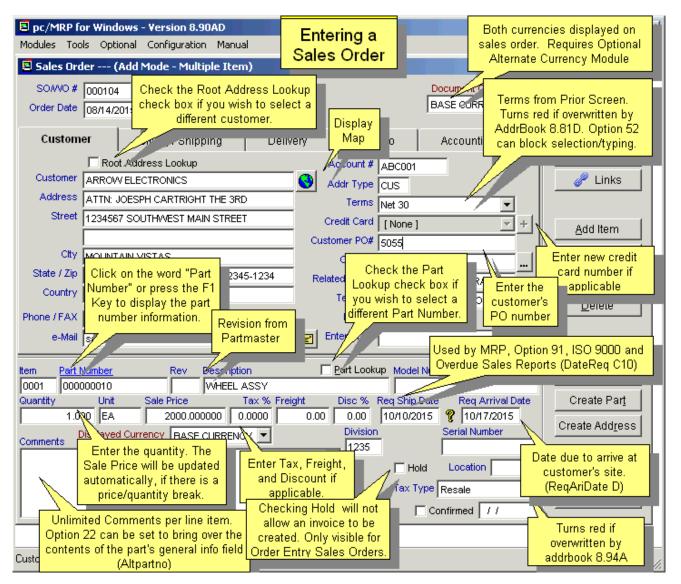
#### 9.1.4 Enter a new sales order step 4, Select the Part

Modules Tools Op	dows - Version 8.90AD ptional Configuration Manual • (Add Mode - Multiple Item)	Entering a Sale Order	es la	Auto inserted from AddrBook, Ver 8.82L and
SOAVO # 00010 Order Date 08/14			Document Currency BASE CURRENCY	higher insert the Sales Quote # when a Sales Quote is converted to a Sales Order. Ver 8.83J
Customer	Billing / Shipping	Delivery Item Ir	nfo Accounting Info	and higher tack on the change order # from the
Customer ARRC	oot Address Lookup DW ELECTRONICS	Account #	ABC001 CUS	sales quote. Field Name is Contract
	: JOESPH CARTRIGHT THE 3RD	Terms	2% 10Days Net 30Days 💌	
Street 12345	567 SOUTHWEST MAIN STREET	Credit Card	[None] - +	<u>A</u> dd Item
Ctty MOUN	NTAIN VISTAS			Clone
State / Zip CA	12345-1	224	RELATED DOC/CONTRACT#	Breakdown
Country USA			SOUTH WEST TERRITORY	Delete
Phone / FAX 408-2 e-Mail sales		art #, enter crintion 1. Enter pa	art of the part description, pa nodel number and press Ent	
Item Part Number			y woder wanner	Logbook
0001	red Part record		2. Select the part and press OK.	eate Part
Part Number	r Rev Description	Model No		ate Add <u>r</u> ess
000000010	WHEEL ASSY			
L ↓	ete Items thigher the sales of inserted into a Sa Doc # (if empty) is converted to thigher the sales of inserted into a Sa Doc # (if empty)	ersions 8.83C and order number will be les Quote's Related when a sales quote o a sales order.	<u>O</u> k <u>C</u> ancel	inished Cancel
Partmast (c:\pcmrpw8	90\partmast.q		I Record Unlocked	

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 label above the part number field, and view (not edit) the item in the Inventory. For items without a part number, enter "NA". Then manually enter the description and any model number.

The unit **Sale Price** (salepric) and **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 doesn't have a Related Document Number, then the Sales Quote's number itself will be inserted into the Sales Order Related Document Number field (**8.82L** and above), followed by a dash (-) and the change order number(**8.83J** and above, **8.88A** and above).

Each line item can include as many **Comments** as necessary.

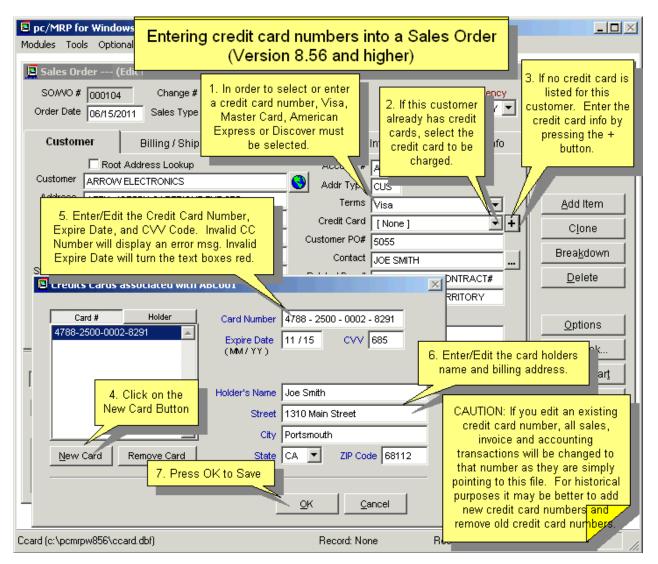
Each line item can have one **Serial Number** (serial). If multiple serial numbers are needed per line item then you may need the optional Serial Lot Number module. (Chapter 16.10 in this Manual)

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.



pc/MRP allows you to enter or select a credit card to use with the sales order. pc/MRP V9.10

# 9.1.7 Enter a new sales order step 7, Enter Billing and Shipping Addresses if necessary

Date 10	for Windows - Version ols Optional Configur	Entoring	g a Sales Order		<u>-0×</u>	
Soles Order (Add Mode - Multiple Item)       Click on the Billing/Shipping tab to view or edit the billing and shipping addresses.       >y         Solwo # 000104       Change # 0       Click on the Billing/Shipping tab to view or edit the billing and shipping addresses.       >y         Order Date       06/04/2013       Sales Type       Order Entry       Back						
Custom	er Billing / Sh	ipping Delive	ry Item Info	Display Map	Next	
Bill To Address S Enable Lookup Ship To Address Enable Lookup						
	ABCD MANUFACTURING					
	Address ATTN: ACCOUNTS PAYABLE Street 1234567 SOUTHWEST BILL STREET		ATTN: RECEIVING		Add Item	
	1234567 SOUTHWEST		1234367 SOUTHWEST RECV			
City MOUNTAIN BILLS		Check the Enable Lookup check boxe MOUNTAIN SHIP wish to enter and lookup different bi		· · · · · · · · · · · · · · · · · · ·		
State / Zip	·	12345-BILL	CA	<ul> <li>shipping address.</li> <li>additional billing or s</li> </ul>		
Country USA-BILL		USA-SHIP Create addition addresses in the add		esses in the address		
Contact		book such as ABC001S2, ABC001S ABC001B2, ABC001B3. Now when				
Email Check the Enable Lookup Check multiple billing and shipping addr						
	tem <u>Part Number</u> Rev Description					
Quantity	000010 Unit Sale Price	VVHEEL ASSY Tax % Freig	ht Disc % Req Ship Da	e Reg Arrival Date	Create Part	
1.000 EA 2000.000000 0.000 0.00 0.00 08/08/2013 💡 08/15/2013						
Comments Displayed Currency BASE CURRENCY  Division Serial Number  Create Address						
			Hold	Location	<u>F</u> inished	
The Division Field can be automatically inserted from the Partmaster or Address Book as per Option 78 in Configuration						
Settings and Utilities.						

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

pc/MRP for Windows - Version 8. Modules Tools Optional Configuration	Entering a Sa	les Order	Gross = Total We				
Soles Order (Add Mode - Multiple Item)       Click on the Delivery tab if you wish to edit or enter additional delivery       Not unit weight. Auto inserted into invoice. If blank, shipper will get weight from partmsaster         SO/WO # 000104       Change # 0       Image: Click on the Delivery tab if you wish to edit or enter additional delivery       Not unit weight. Auto inserted into invoice. If blank, shipper will get weight from partmsaster							
Customer Billing / Ship	oping Delivery	Item Info	counting Info	Next Items/Notes			
FOB Destination Ship Via UPS::2nd Day Air Vessel	OB will be red if it does no	Case Measure	0.0000 inlcude	ble Items will be d as line items in ment Document.			
Port of Discharge Port of Loading	match customer's default FOB (Version 8.81D)	Shippa		Clone Breakdown			
Country of Origin     O19     Tariff Code     Tracking Numbers (one per line)     Track       Export Reason     2330930200     Click to track pkgs							
Incoterm     CIF - Cost, Insurance al, Freight     Enter Tracking Numbers     Options       Item     Part Number     Rev     D     Country of Origin*, Tariff Code*, Export Reason, and IncoTerm are     Imber     Logbook							
Quantity     Unit     Sale Price     available on pc/MRP Version 8.73C     te     Reg Arrival Date       1.000     EA     2000.0000     and higher. * From Partmaster.     ?     ?     ?     08/15/2013							
Comments Displayed Currency BASE CURRENCY							
Internet Explorer must be your default browser if you wish to track DHL and Postal Services							
	Service 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

Web Site Sales	Click on Item Tab to enter or edit item information BA Sets Stockroom Issue To Mfg Screen to Sub-assys Only. Populated from Partmaster. Disabled if Issued to Mfg. Not Visible if Cash or On Account and Carry. BA Item Info Items/Notes Items/Items/Notes Items/Notes Items/Items/Notes Items/Items/Notes Items/Items/Items/Notes Items/Items/Notes Items/Items/Items/Items/
Web Order Number     Original Rec       Sales Site     Original Rec       Manufacturing Site     Contains Original Ship Date when sales order is entered. Used by ISO	te Shipped / / / <u>A</u> dd Item g Ship Date 08/08/2013 DateShip C(10) Clone OrDateReq C(10) Breakdown Part Aux 1 <u>D</u> elete
Reference No. 2     9000 Sales Report, Editable = T, Allowable Days Early = 9, Allowable DaysLate = 0.       tem     Part Number       Rev     Description       0001     00000010	Part Aux 2           Aux1 and Aux2           from partmast         Options           Part Lookup         Model Number
Quantity         Unit         Sale Price         Tax %         Freight           1.000         EA         2000.000000         0.000         0.00           Displayed Currency         BASE CURRENCY         Image: Control of the second sec	Disc %     Req Ship Date     Req Arrival Date     Create Part       0.00     08/08/2013     ?     08/15/2013       Division     Serial Number     Create Address       1234
	Hold     Location       Tax Type     Taxable       Confirmed     / /
Partmast (c:\pcmrpw\partmast.dbf)	Record: 5/11 Record Unlocked

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.

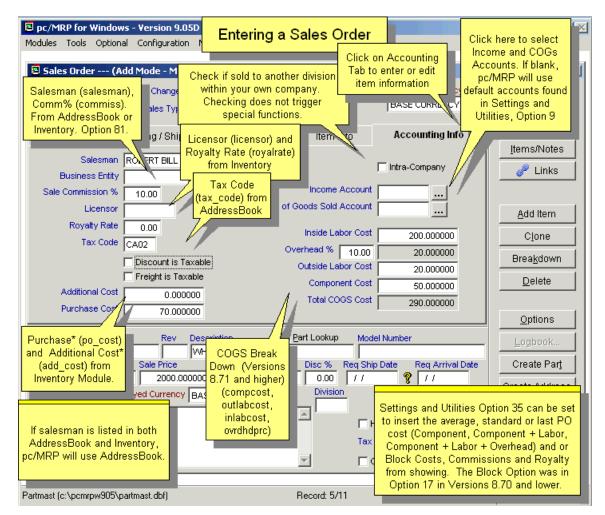
If Issue Parts & Subs Only is checked, only top parts and sub-assys reporting to this assembly will be issued.

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.

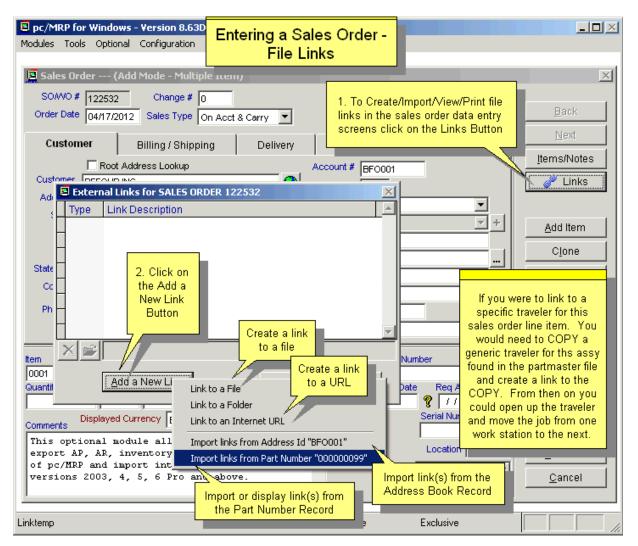
#### 9.1.12 Enter a new sales order step 12, Enter the Boiler Plate and Review the line items

pc/MRP for Windows - Version 8.90AD     Modules Tools Optional Configuration Manu     Entering	g a Sales Order						
Sales Order (Add Mode - Multiple Item)       Press the Items/Notes Button to review and edit line items and the Sales Order Notes Section         SO/WO # 000104       Change # 0         Order Date       08/14/2015         Sales Type       Order Entry							
Customer Billing / Shipping Delivery	y Item Info Accounting Info Next						
Sales Order Line Item Edit Form	💶 🔤 🖉 Links						
tem # Part Number Description	Req Ship Date Order Quantity Unit Sale Price 🔺						
0001 000000010 WHEEL ASSY	10/10/2015 1.000000 2000.000000						
▶ 0002 000000001 BEARING, 3" OD × 1" ID	10/10/2015 1.000000 20.000000 Add Item						
	Review/Edit Date Required     Clone     Clone     Review/Edit Date Required						
	Breakdown						
Enter Boiler Plate Notes:	Options						
5% Penalty on all overdue invoice payments.	Sub Total: 2,020.00						
	Discount: 0.00 Create Part						
	Tax: 0.00						
pc/MRP will auto insert the sales	Freight: 0.00 eate Add <u>r</u> ess						
boiler plate text (if any) from Settings and Utilities, Option 22).	, and the second s						
Users can edit and save the Boiler	Total: 2,020.00 Finished						
Plate Notes for this sales order. Running Totals							
Displayed Currency: BASE CURRENCY							
Salesitems	Record: 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



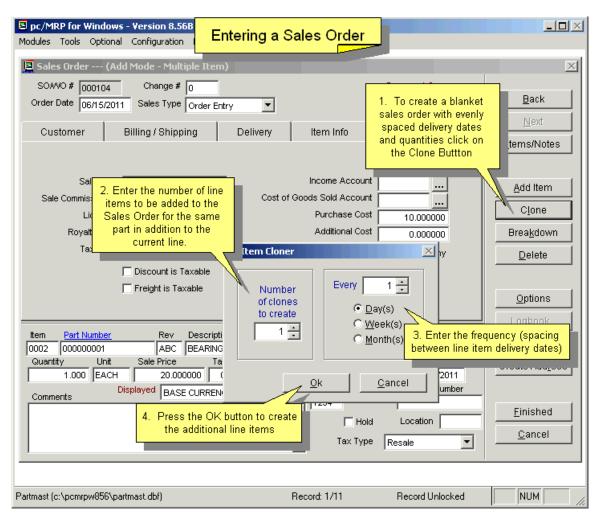
#### 9.1.14 Enter a new sales order step 14, Click on Finished to save the sales order

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

Dec/MRP for Window Modules Tools Option		Entering	a Sales Or	der		
Sales Order (A SO/WO # 000104 Order Date 06/15/20 Customer	Change # 0	Drder Entry	• •	Docu BAS fo Aco	<ol> <li>To create a blanket sales ord with varied deliver dates and or varie quantities, click o the Breakdown button</li> </ol>	ry <u>B</u> ack ed <u>N</u> ext
Item Breakdown     Part # 00000     Description BEARI			Ac	al Required: counted For: Still Needed:	3.000 3.000 0.000	Add Item Clone
1.000	03/03/2011	0.000			000 / /	Brèa <u>k</u> down <u>D</u> elete
0.000		0.000 er the desired qua spective delivery		0.0		Options
0.000		0.000		0.0		Create Par <u>t</u>
0.000		0.000		0.0	000 //	reate Add <u>r</u> ess
0.000	11	0.000	11	0.0	000 / /	<u>F</u> inished <u>C</u> ancel
 Partmast (c:\pcmrpw856\p	partmast.dbf)		e Ok button to e line items.	<u>O</u> k Re	<u>C</u> ancel	

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.

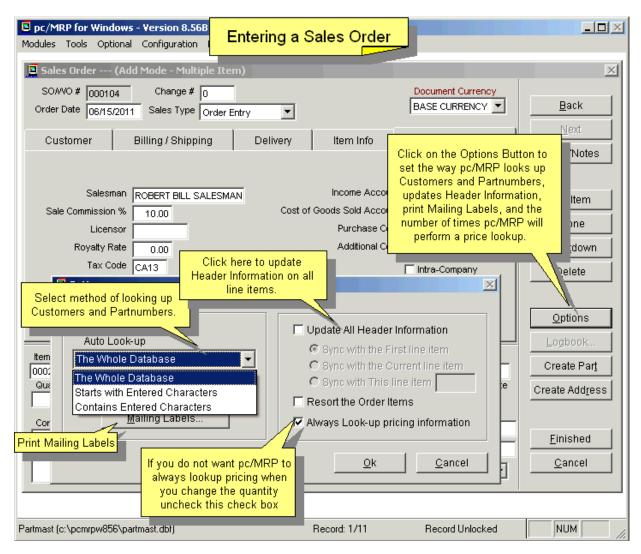
Enter the number of parts and the delivery dates in the highlighted columns.

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.

# 9.1.18 Sales Credit Limit Override Screen

VFP - C:\V847 (User: DOUG) Modules Tools Optional Configuration	Entering a Sales	Order	
🧧 Sales Order (Add Mode - Multi	ple Item)		×
X			
本館 Violation:		BASE CURRENCY	Back
	days to pay exceeds terms + 0 da	- Hanslufa	Next
Current Order	Open Invoices Exceed Terms	+ 0 days	Items/Notes
Term: Net 30	Total: 2020.00	🗖 Issue Subs Only	
Due in 0 days Average days to pay	Oldest Invoice: 000001	000	
0 days	⊻iew Invoices in Violation		Add Item
			Clone
Credit Limit Violation:			Breakdown
Current Order	General		
Subtotal: 2020.0000	Open Invoices: 20	20.0000	Delete
Discount: 0.0000	Open Sales: 600	20.0000 If you press Finish a 53 is set to display	
Tax: 0.0000	Current Order: 20	49.0000 if a sales order p	
Freight: 29.0000	Total: 640	89.0000 customer over the	
Total: 2049.0000		limit, the Credit	will be
R .	Credit Limit:	0.0000 Violations Screen 89.0000 displayed.	'ar <u>t</u>
Re-Edit Button allows the user to re	eturn to the		t <u>r</u> ess
sales order and lower the qty or	Save With Hole	03/10/2010 Serial Number	
BASE CURRENCY -	-		
	<u>R</u> e-Edit	Location	<u>F</u> inished
	- Ouewide	Resale V	<u>C</u> ancel
	Override		
If necessary, enter Override			
was set in Settings and Util Partmast to:	ites, Option 53. Record: 1	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	les Tools Optional Co ventory (View Mode Part # 000000001 Description BEARING 3.00	2) Type Pr	art - Inventory		ol <sub>Revis</sub>	sion ABC Displ	ayed Currency [	Inspection Cri BASE CURRENC	
	1	r	Sales Prices		Details	s 1	Details 2	QuickBook	s®
=	Costs: Average Standard Last PO On Order On Demand MRP Available Estimated Usage Minimum Gty Maximum Gty Std Order Gty	10.0000 10.0000 0.000 0.000 0.000	Assembly Cost Details Display & Update		1 2 4 5 6 7 8 9	Area Stores TEST/MRB R&D DEMO INCOMP ENGINEER QC HOLD RMA STAGING SCRAP	1	ity Location	
	Order Multiple Stock & Issue Unit Lead Time (Days) Delete	2	Date of Last F	17 <mark>0 w</mark> a	ord "Par		r click on the to display the prmation.		

### 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.

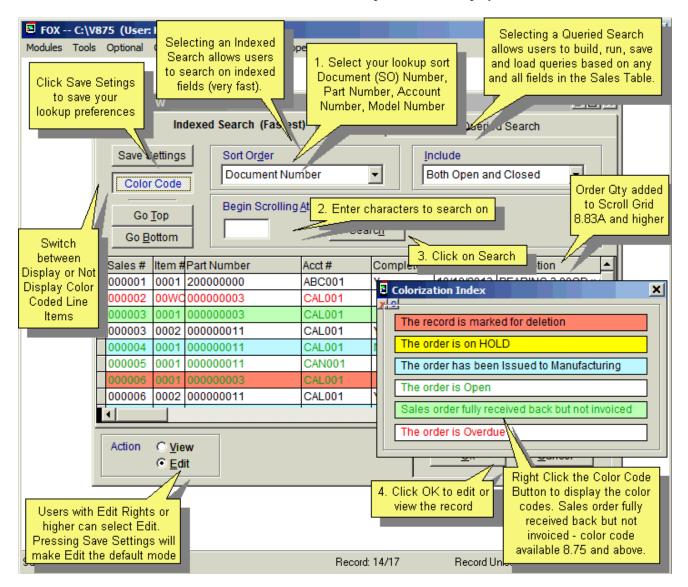
When a sales order is entered, pc/MRP will increment the On Demand quantity for the completed assembly and <u>not</u> the parts in that assembly. The allocation of sub-assemblies and parts in the parent assembly(s) is performed when the user runs "Generate MRP Action Items" in the optional Infinite Bucket 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. 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.

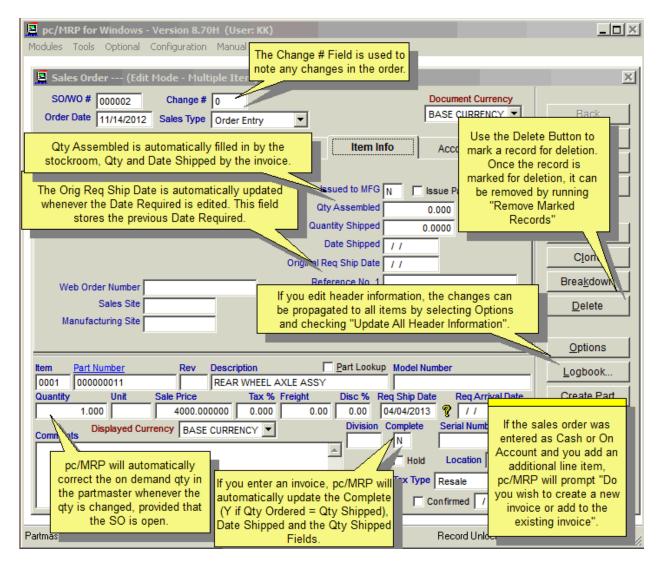


This option allows users to scroll, edit, delete, undelete Sales Order line items, or run queries against Sales Order records.

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.



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/>blank> in 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. **Note:** Versions **9.06A** and lower only allowed the user to delete line items one-by-one. Versions **8.95F** and lower allowed any line item to be marked for deletion.

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.** (Versions **8.95F** and lower only gave a warning.)

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 (**8.95G** and higher). 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.

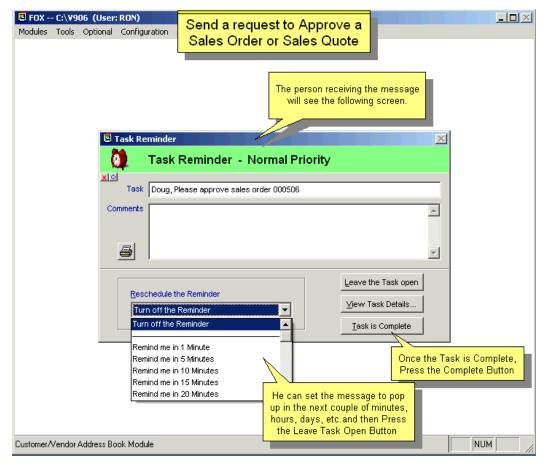
Modules Tools Optional Configurati Sales Order and Sale Approval Overv	VVith versions 9.06 and
User Password & Access Rights	assigned rights to
📕 🔍 User Name 🛛 Password 🔺 🛛 PR Approval SO Appro	val SQ Approval digitally sign and approve Sales/Work Orders and
BILLY BILLYBOY No Approval Ri 🔹 No Approva	
DOUG DOUG Level 3 Approv: V Level 3 App	ov 🔽 Level 3 Approv 🔽
KIM VUNG Level 1 Approv. V No Approval	- Idvariti - Idv
Editing re Use pc/MRP's Optional Level 2 Appl Password Module to Ints in the Level 3 Appl	oval Rights
New         assign SO Approval         Level 4 Appl           New         Rights, if any, and level	oval Rights
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Cont	act Brea <u>k</u> down
State / Zip CA 88888 Related Do	# Delete
Country USA Territo	
Phone / FAX 980-112-1111 Sales Order Approval	X
e-Mail S	gnature Options
Level 1 Approval	Insert Signature
tem Part Number Rev [ 0001 000000010 Level 2 Approval	Insert Signature
Quantity Unit Sale Price	Create Address
Displayed Currency	Remove Signature Approval
Comments Level 4 Approval	Insert Signature
To request a signat	ure from ar That person could then Einished
pc/MRP's Optional Tickler Task Manager	edit a SO, Press the Approval Button and Insert
Module will allow users to send a message to a user requesting he insert his approval	Ok their signature at the level
signature on a Sales / Work Order. Record:	5/11 NUM

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. pc/MRP V9.10 Page 183 The approval signatures will appear at the bottom of the sales order form.

Modules	C:\ <b>Y906 (l</b> ; Tools Opti ht Preview - S	onal Configur	ation Sal	Appro		l Sales Quot gnatures			_ D ×
	L23 MAIN ST	CH4 OLOGIES REET A 92020-4406			) / WC	SALES ORDER#			
	PHONE: 408- FAX: 408-24 ABC MANUF A ATTN: JDE SN L11 SOUTH M RICHVJEW, D USA	7-8610 CTURING CDMPA 11TH MIN STREET				Forms Forms ATTN: 30E SMITH 111 SOUTH MAIN STRI RICHVIEW, CA 60800 USA			
	SHIP VIA: UPS		1	TERMS: Net30		ACCT: J	ABCOOL		
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	NDTES: Sales O APPROVALS:	rder boller plate	Level	2	_ Lovel 3 4	Approval appear at SO / W	BTOTAL: Signatures w the bottom of /O/ SQ Form:	the 0.00	
•	Produced from ps/HRP -	www.pcnip.com			-	-			
Tempinv	(c:\docume~1)	\doug\locals~1	\temp\598944	80.dbf)	Rec	ord: EOF/1	Exclusive		

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		st to Approve a or Sales Quote		
1. Type your req x Task Propertie your and your and your and your and your and your and your and your and Task Doug, Please and	e in pop up uest pop u pop u	ck Reminder. If you e msg to the user to right away, set the fanager Settings to p within 1 minute. 506		X 4. Select
Reminder		Priority	Normal 🚽	Working
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send Dov Op Tick	elect the person you v I the message to. If th wn List Box is empty, tional, User Task Mar ler and Settings and s Obtain the User List fi Password Module"	ne Drop Goto nager ⊧et it to	k <u>C</u> ancel 5. Press the OK Button	
Relateditems	R	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)

### 9.4 Print, Email a Sales Order

pc/MRP for Windows - Version 9.00M Modules Tools Optional Configuration     Print Preview - SALEB.FRX	Manual Prin Print Sing		The sales order v displayed as shown	
Print Preview           I         I           I         I           III         IIII		[	SALES ORDER#	#:000103
Software Arts 6830 Via Del Oro Suite 109 San Jose, CA 95119 PHON E: 408-226-7321 FAX:	Configuration, Settings and Option 24 can be used to company logo and create a sales order (cso*.fr	add your custom	PAGE NO. : : CHANGE ORDER : DATE ORDERED : ( RELATED DOC # : SALESMAN : CUSTOMER PH # : FOB :	- 02/22/2016
ABC MANUFACTURING COMP ATIN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	ANY	SHIP TO ADDR	ABC MANUFACTURIN ATTN: JOE SMITH 111 SOUTH MAIN ST RICHVIEW, CA 88880 USA	REET
SHIP VIA: UPS	TERMS: Net	30	ACCT	: ABC001
ITEM PARTNO	DESCRIPT DATE REQ		QTY UNIT	PRICE
0001 000000001	BEARING SS 02/26/16		1	20.00
NO TES:	e ro roi	xes are totaled ach line item (C unding. The tot inded to 2 decin	alcitem) w/o	SUBTOTAL:

To print, display, email, fax a sales order, select Modules, Sales, and Print. You can also create an HTML or PDF sales order document. Programs like WINFAX will allow users to fax sales orders directly from pc/MRP. 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.

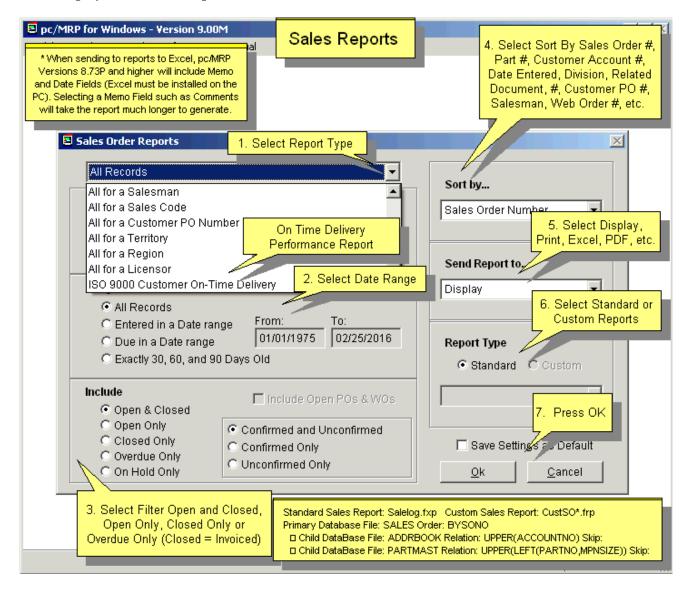
To e-mail a sales order directly from pc/MRP, you must use Outlook, not Outlook Express. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book. If you choose to create an HTML or PDF document, you can save this document and attach it to an e-mail created in your existing e-mail program. The .PDF file name will include the Change# (**8.83** and higher). If the flag file **SSMAILLB.FLG** exists, an address label for the customer on that sales order will automatically be created from the CUSTARD\*.LBX or the CUSARD\*.LBX.

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.

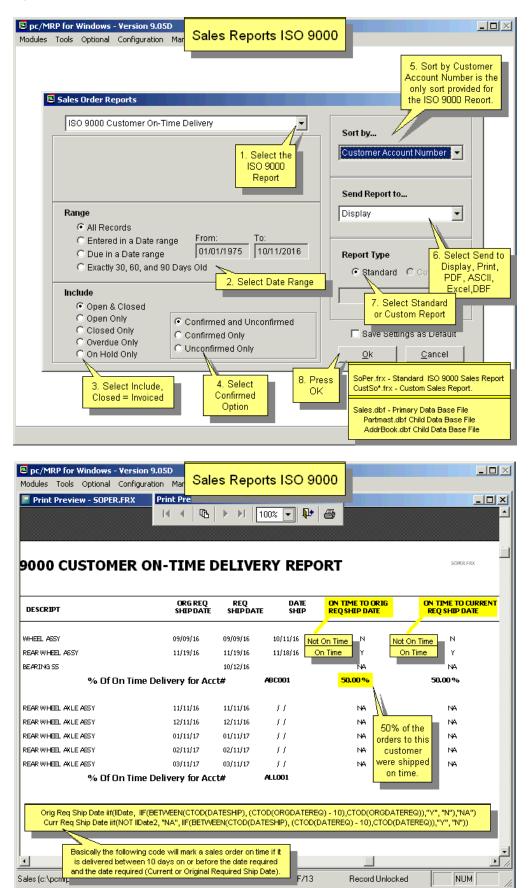
9.5.1 Print/Display Sales Order Reports



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

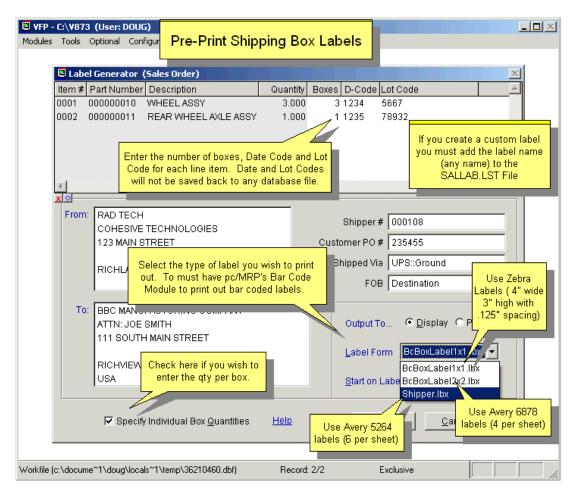
Select the Sales Order number. On the next screen you can enter the number of boxes. The Date Code and Lot Code will be printed on the labels, but will not be saved back to any database file. If Specify Individual Box Quantities is checked, you will be able to edit the Date Code, Lot Code and Quantity 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.

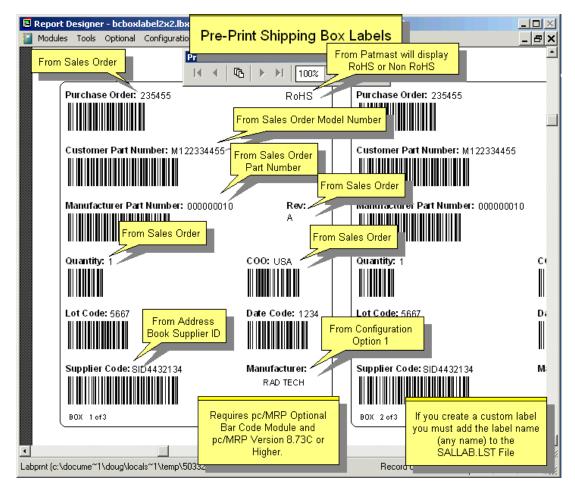
The text in an example SALLAB.LST file is shown below:

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"



Distants.		<b>V873 (User: DO</b> Iols Optional Co		Pre-Print Ship	ping Bo	x La	abels				<u> </u>
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Tools Optional Configura	Pre-Print Shipping Box I	Labels	_ [	
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CUSTOMER PO #: 2354	55	CUSTOMER PO #: 235455		
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PART #: 000000010	1	PART #: 000000010		
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BOX		ing Box Labels to be	of	
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CUSTOMER PO #: 23.54	55	CUSTOMER PO #: 235455		



# 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

Note: For Versions 8.83 and older see the 8.80 Manual and http://www.pcmrp.com/mrp101/invoiceselectnew.htm

# 10.1.1.1 Enter a New Invoice Step 1, Select the Sales Order to be Invoiced

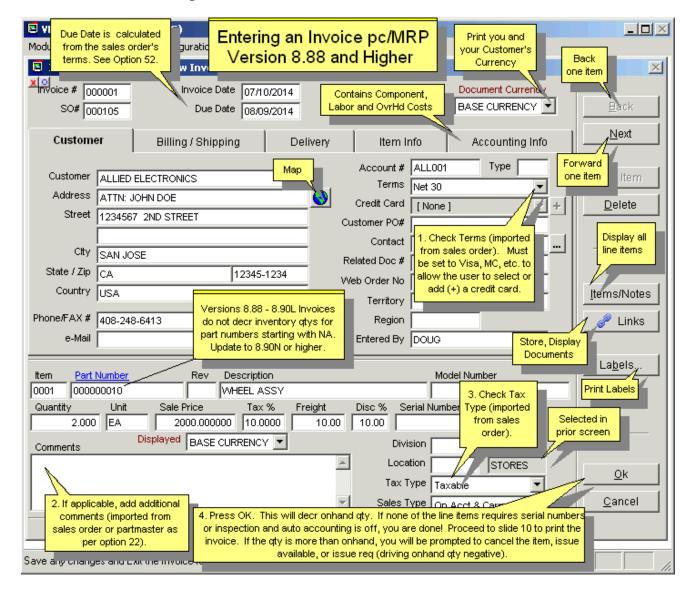
To enter a new invoice for an existing open sales order, select Modules, Invoice and New. (If there is no existing open sales order and you have the finished goods in stock, enter the invoice by selecting Sales, New and On Account or Cash and Carry.) Scroll to select the Sales Order to be invoiced. (A 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.

Modu	iles Sci e s	Tools roll and ales or e invoic	der to ed • Line	Version 8 Items For Invoicing Sales Order# Select th	.88 and H		is On	Cash and Account	his invoice d Carry or and Carry	
		ltem#	Part#	Description	Invoice Qty	Sale Price	Тах	Freight	Discount 🔺	
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			000000011	REAR WHEEL ASSY	2.000	2000.000000	10.0000	0.00		
		0003	000000001	BEARING, 3" OD x 1" ID	1.000	20.000000	10.0000	0.00		
		2. Che order I be	000000010		nece	2000.000000 Edit and make a essary correction selected line iter	ext	0.00 Exit	ext Button	
Saleite	emc	ursor			Record: EO	IF/4 Exc	lusive			

# 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

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.** 

### 10.1.1.4 Enter a New Invoice Step 4, Billing/Shipping Tab

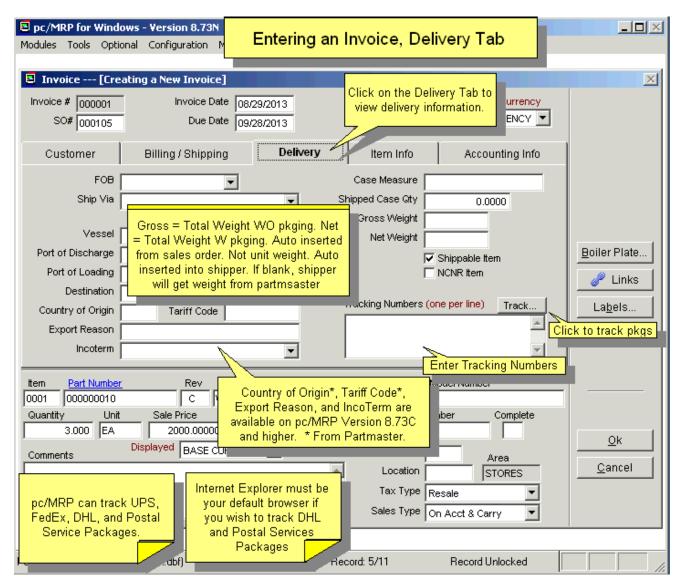
pc/MRP for Modules Tools	Windows - Version 8.73N Optional Configuration	an Invoice, Billing	/Shipping Tab	_ 🗆 🗵
	0001 Invoi click on the Billi	Billing and Shipping Add ng/Shipping Addresses		X
Custome	r Billing / Ship Display Map eliv	very Item Info	Display Map	
Bill To Address Street City State / Zip Country Contact	ABC Manufacturing Accounts Payable 123 Main Street San Jose CA 95119	ABC Manufacturing John Smith 123 Main Street San Jose CA USA John Smith sales@ahcmap.ufacturing	Billing and Shipping Addresses are automatically inserted from the sales order. 95119	<u>B</u> oiler Plate
ttem Part 1 0001 00000 Quantity Comments	Aumber Rev Description 00010 C WHEEL ASSY Unit Sale Price Tax % Frei EA 2000.000000 0.000 Displayed BASE CURRENCY V	ght Disc % Serial Nu 20.00 0.00 Division Location Tax Type	FAX and TaxID for t and Ship To A	mail, Phone, both the Bill To

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.

Scroll to see the Contact, Email, Phone, Fax and TaxID 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.

# 10.1.1.5 Enter a New Invoice Step 5, Delivery Tab



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 and IncoTerm 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.

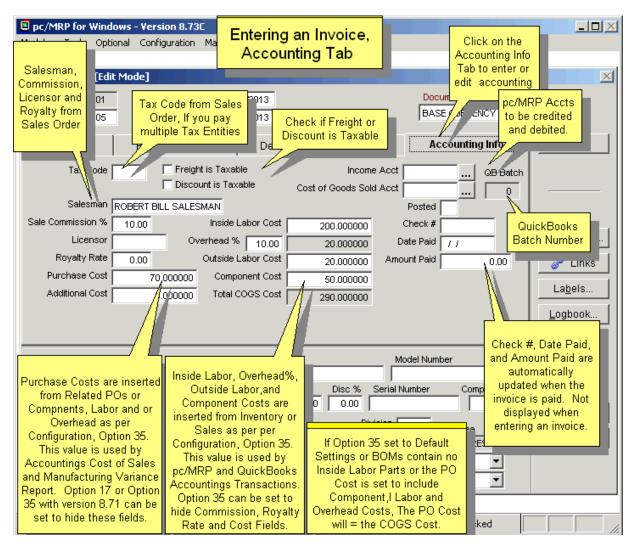
# 10.1.1.6 Enter a New Invoice Step 6 Item Info Tab

pc/MRP for Windows - Version 8.73N Modules Tools Optional Configuration	Entering an Invoice, Item	Info Tab
Criginal Qty and Previous Qty are displayed when editing but not when entering. Original Qty Original Qty Previous Qty 0.000 Sales Site Manufacturing Site	ate 09/28/2013 ng Delivery Item Info Reference No. 1 Reference No. 2 Reference No. 3 Part Aux 1 Part Aux 2	Click on the Item Info Tab to edit/view misc information Reference Fields that can be used for custom reports Aux 1 and Aux 2 from partmast. Version 8.73 and higher Links Labels Logbook
0001         000000010         C         V           Quantity         Unit         Sale Price           3.000         EA         2000.00000	AMEEL ASSY Tax % Freight Disc % Serial Nu 0 0.000 20.00 0.00 URRENCY Division Location Tax Type	Model Number umber Complete Area STORES Resale On Acct & Carry
Invoice (c:\pcmrpw873\invoice.dbf)	Record: 1/1	Record Unlocked

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



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.

### 10.1.1.8 Enter a New Invoice Step 8, Enter/Edit Default Boiler Plate Notes

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</u>, on the last page of the invoice.

The boiler plate notes should not be confused with the **Comments** field. Comments of unlimited length can be entered for <u>each invoice line item</u>.

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Invoice [Edit N Invoice # 000001 SO# 000105	Invoice Dat	te 06/17/2013 te 07/17/2013	D	when editing bu	ut not 🔣
Customer	Billing / Shippi		Item Info	Accounting Info	Delete
Address John S Street 123 Ma City San Jo State / Zip CA Country USA Phone/FAX # 333-44 e-Mail sales@	in Street ise 14-0900 garrownac	r Plate Notes Screen Boiler Plate Notes: terms and conditions pc/MRP will automatica plate from option 22, u Sales Order Boiler Pl checked in Option 22, edit and save the boiler p	Illy insert the boiler nless the Transfer ate Checkbox is Users can enter,	Click or Boiler Pla	Epoiler Plate Links Ib.Is Button to /Print file
Delete/Boiler Plate/ Buttons are loca pc/MRP Versions	Sale 2000.00000 Displayed BASE CL /Links/Labels/Log ated on the botton	JRRENCY  Book/OK and Cancel n of the screen on d on the right side of	Ok <u>Cancel</u> 0.00 Division Location Tax Type Resale Sales Type On Acc rd: 1/1 R	Versions 8.63D or Area STORES	

Pressing the Boiler Plate 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.

# 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.

VFP - C:\V888 (User: DOUG) Modules Tools Optional Configura	Ver If any num	sion 8.88 au of the line item abers or an insp	s require serial	P	1.Part Number 0 listed on line itu requires serial n selected or enter invoice for that p is create	ems 0001 umbers be ed when an art number
Enter Serial/Lot Numbers a						n
Invoice# Item# Part#	ť	Invoice Qty	Inventory Qty		In spect Record Inv	4
000001 0001 00000010 000001 0002 000000011		2.000000	0.000000	Enter	NOT REQUIRED ST	
		1.000000	0.000000	Not Serilized It: Enter	Inspect ST	
Line Item 003, the be not listed because it require serial/lot nu recorded nor does it inspection to be pe when entering an i	does not mbers require formed				Next	
Save any changes and Exit the Invoice fo	orm					

### 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.

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.

פ ?	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> <li><u>O</u>K</li> </ul>		

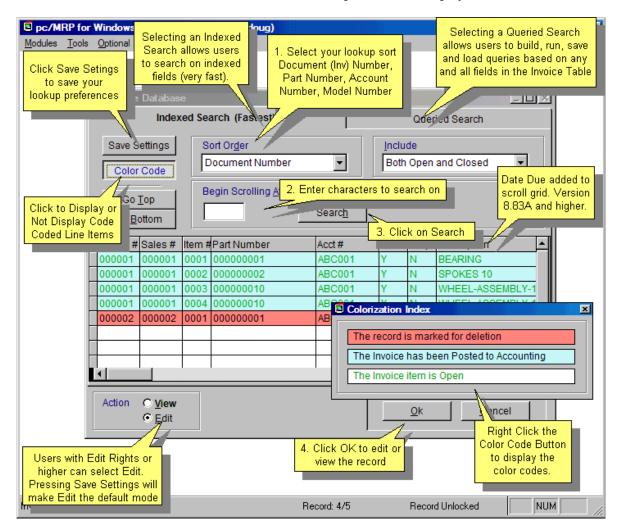
#### Notes:

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.

If partial payments were made, the Date Paid field will contain the last 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 partnumber 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).

pc/MRP for Windows - Version 8.2	4A (User: doug)
Modules Tools Optional Configuration	Magual       With pc/MRP Versions 8.24A and higher, pc/MRP will         display the screen shown below, offering to automatically       adjust the original sales order Quantity Shipped and the         Invoice Date       Inventory Modules Onhand and On Demand Quantities.         With pc/MRP Versions 8.23 and lower, you must         manually adjust these quantities in pc/MRP.
State / If you State / quar Cou conti Phor	Billing / Shipp have changed the quantity of the invoice from 1 to 2. It want the system to automatically adjust the part's area tity and/or the sales order's quantity ship, please select orresponding check box(s). Press the Proceed button to nue. bodate The Sales Order's Quantity Shipped ijust Inventory Area Qty down by 1 and On Demand Qty Area To adjust STORES Cancel
Comment:         Delete         Logboo         Invoice (c:\pcmrpw824\invoice.dbf)	Click on the Proceed Button Click on the Proceed Button Sales Type On Act K Boiler Plate Labels Record: 2/2 Record Unloc

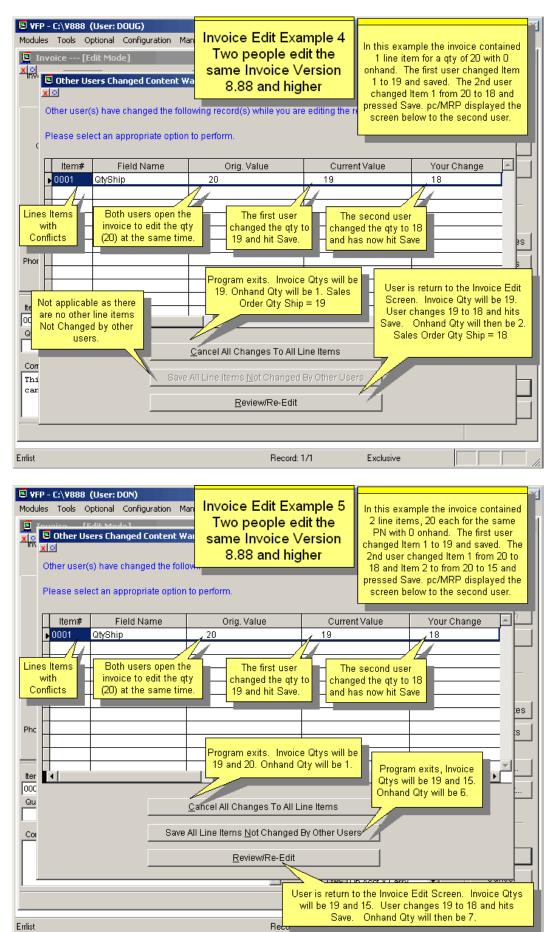
If you increased the Invoice quantity and there are not enough items on hand, you will see the following screen:

VFP - C:\V888 (Us Modules Tools Option Invoice [Edit Noice # 000001 SO# 000105	nal Configuration M Mode] Invoice Date	OSID1 2014 Since	
Customer	Billing / Shipping	Delive	Qty Screen will appear.
Insufficient Onha x o	and Quantity		×
			uantity. Please select an action for each item.
item Part#	Descripti WHEEL ASSY	ion Qty Required	Select an Action For Each of the Following Line Items.
			Issue the required quantity. (Drive onhand negative)           Issue as much as is available.           Revert back to the invoice's original quantity           Do not update the inventory area quantity
Issue as much as Revert back - Pro	s available - Program exits gram exits - Invoice Qty∶	voice Qty 4, Onhand Qty -1, S s - Invoice Qty 3, Onhand Qty 2, Onhand Qty 1, Sales Order s - Invoice Qty 4, Onhand Qty	r Oty Ship 2
Shortonhandpartscursor		Record	

If the invoice you are editing was issued with serial numbers, you will see the following screen:

STOR.	C:\V888 (L Tools Opt		<b>DUG)</b> Configuration Manual	Version 8.4 Higher Exa	38 and			
			ot Numbers					×
		voice is	saved.					
	Invoice#	ltem#	Part#	Invoice Qty	Inventory Qty	Enter S/L	Inspect Record Inv	<u> </u>
	000001	0001	000000010	1.000000	0.000000	Enter	NOT REQUIRED ST	
						<u> </u>	+	
				contained specif	oice being edited ic serial lot numbi ify which serial lo ere not shipped.			
	•	<u> </u>		1			) I	
							Next	
Orginycur				n	dt 1/1	Exclusive		

### 10.1.3 Example: Two Users Simultaneously Editing the Same Invoice



### 10.1.4 Print (Display/FAX/EMAIL) an Invoice

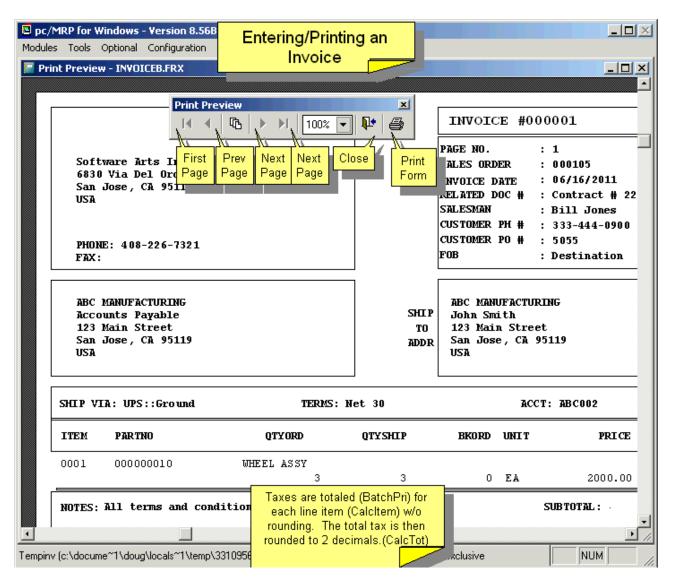
To print, display, email, fax an invoice, select Modules, Invoice, and Print. You can also create an HTML or PDF invoice document. Programs like WINFAX will allow users to fax invoice directly from pc/MRP.

To e-mail an invoice directly from pc/MRP, you must use MS Outlook, not Outlook Express. The e-mail address in 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 e-mail created in your existing e-mail program.

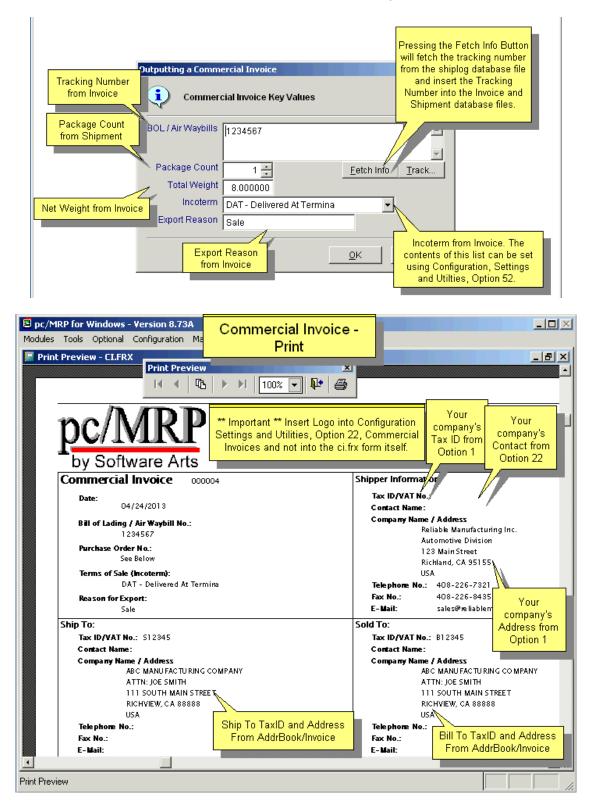
### **10.1.4.1 Printing a Domestic Invoice**

Users can create custom invoices, that display their logo and/or additional fields from the invoice module that they wish to see on the invoice. See Chapter 15.4 in this Manual. The invoice form uses INVOICE.FRX and INVOICEB.FRX. See Section 15.4.1 to create a custom invoice (CINVOICE.FRX).



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**.

Select Commercial Invoice as the Document Type. 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>, use **Option 22** for the Commercial Invoice. You can still create custom commercial invoices from the standard CLFRX, named as CCI\*.FRX.

### 10.1.4.3 Printing Shippers and Shipping Labels

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 NOT be transferred to the shipper.

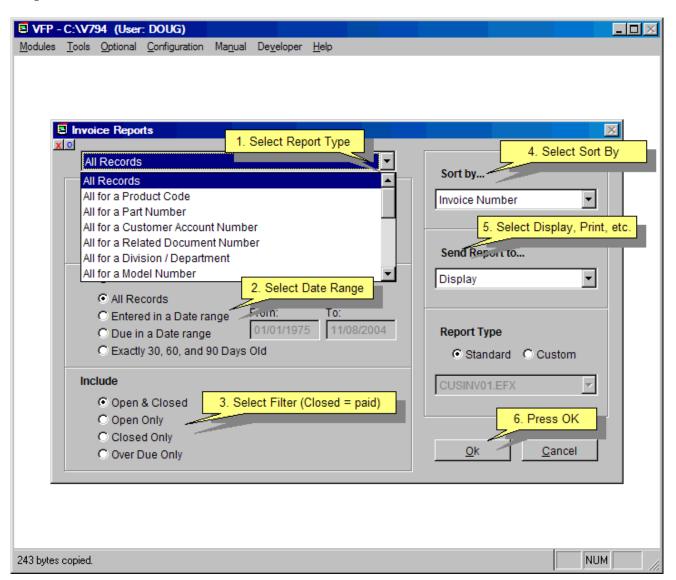
VFP - C:\V888 ( Modules Tools Op	Entering an Invoid		Enter the number of boxes.
🖪 Label G	Senerator (Invoice)	·	×
Item # Pa	art Number Description	Quantity Boxes	- Jode Lot Code 🔄
0001 00	0000010 WHEELASSY	2.000 4	
0002 00	0000011 REAR WHEEL ASSY	2.000 0	
0003 00	0000001 BEARING, 3" OD x 1" ID	1.000 0	
exist in the po labels (boxes) labeled "1 of 10"	ption when invoices are created both the INV cmrpw folder. This option also allows users to ) per line item by changing the "Boxes" coun ", "2 of 10" "10 of 10.". INVLAB.LST come IIP.FLG file with Notepad. Make sure the file	o increase or decrease t as shown above. Ea es with pc/MRP. The	e the number of Ich label will be user must create
		Shipper#	000001
	COHESIVE TECHNOLOGIES	Customer PO #	
	123 MAIN STREET	Customer PO #	
	RICHLAND, CA 92020-4406	Shipped Via	
		FOB	
то: Г	ALLIED ELECTRONICS		
	ATTN: JOHN DOE	Output To	C <u>D</u> isplay
	1234567 2ND STREET		
		Label For	m SHIPPER.LBX 🔻
	SAN JOSE, CA 12345-1234		·
	USA	<u>S</u> tart on L	abel # 1 🕂
:	Specify Individual Box Quantities Help	. <u>o</u>	k <u>C</u> ancel
	Allows the users to specify	Ļ	Press OK to print shipping labels.
Save any changes an	d E		

### **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".



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.

6/19/2002 ALL BY I	1 INVOICE NU	BER"		INVOIC	E REPORT			
SALE S#	ITEM#	DATE SHIP	PART NUMBER	DE SCRIPTION	ACCOUNT P	Q OSTED SH	TY TOT TP A)	
INVOICEND	000	001						
000001 0000	001 0001	06/18/02	00000001	BICYCLE TOP ASSEMB	ABC001	1.	.000 1500	0.00 1500.0
000001 000	001 0002	06/19/02	00000001	BICYCLE TOP ASSEMB	ABC001	1.	.000 1500	0.00 1500.00
					TOTAL	2	2.000 300	0.00 3000.00
INVOICEND	000	002						
000002 000	002 0001	06/19/02	00000001	BICYCLE TOP ASSEMB	ABC001	1.	.000 1500	0.00 1500.00
					TOTAL	1	.000 150	0.00 1500.00

### 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.

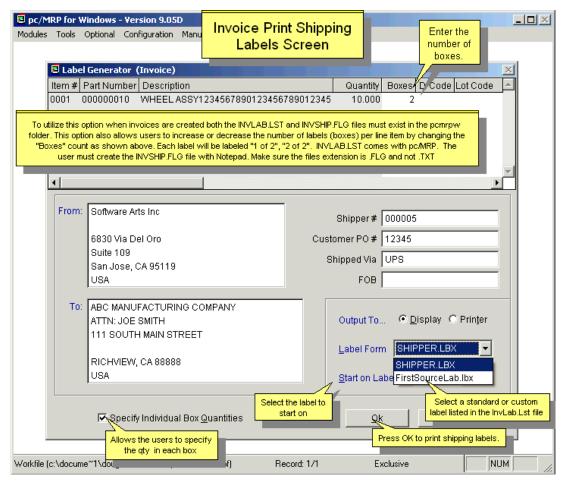
This option allows users to print out a shipping label for each shipping box required for an invoice. To activate this option in the Invoice menu, the INVLAB.LST & INVSHIP.FLG files must exist in the pcmrpw folder. You can select a different printer by selecting **Print Setup**. Users can select what 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

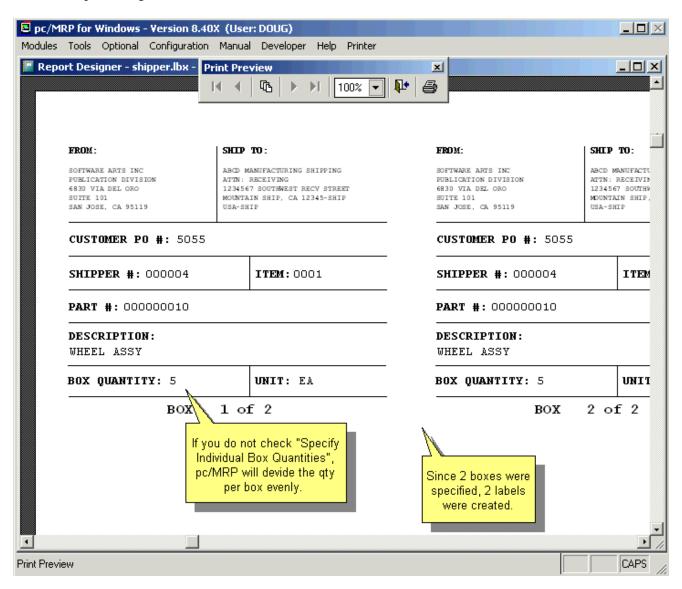
When editing the **INVLAB.LST** file each line represents a different label. The first line of this file will read, SHIPPER.LBX = Standard pc/MRP shipping label. When editing INVLAB.LST follow the same structure as the first line.

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.



BUILTS .		<b>or Windows - Versio</b> ols Optional Configu			Print Shipp els Screen	oing				
	STORE .	abel Generator (Inv n# Part Number De 1 000000010 WH	escription	23456789012	3456789012345		Leave	Code Lo or Chan ntity per	ge the	
Print	ltem #	Part Number	Description			مر Quantity	Box #	of Boxes	Date Code	Lot Code
<u>र</u>	0001	000000010			0123456789012 0123456789012	5.000		2	_	
E					•					
				Individual E screen will	r checked "Spe Box Quantities", I pop up allowing accept or edit th	, this g the				
	Qk     Qk       Qk     Qance									
Lablist	(c:\doc	ume~1\doug\locals~1\	temp\5026332	9.dbf)	Record: 1/2	Exclu	usive			

Here is a sample label generation:



## 10.2 Overview. Create a shipment record

FOX – C:\V814 (Use	er: DOUG)
Modules Tools Optional	Configuration Manual Developer Help
Inventory	
<u>B</u> OMs ►	
Stockroom	
Purchase	If you selected Manually Create Shipping Documents in Option 89, you must select
Receive	Modules, Shipment and New to create a
Work Order	Shipment Record for an invoice
Sales Order	
In <u>v</u> oice	
Shipment •	New
Address Book	Edit / View
Accounting	Print BOL
E <u>x</u> it	Reports
	Remove <u>M</u> arked Records
	Remove Over <u>X</u> Years
	by Software Arts
	by Soliware Aris
	Konse enlanted
	If you selected Automatically Create
	Shipping Documents in
	Option 89, creating an
	invoice will automatically
	create a Shipment Record.
	Recold.
Create a new Shipment	NUM

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.

## 10.2.2 Step 2 Verify the data.

Fox -	- C:\V8	814 (User: DOUG)								_ 🗆 🛛
<u>M</u> odules	<u>T</u> ools	Optional Configuration	Ma <u>n</u> ual	De <u>v</u> eloper	<u>H</u> elp					
	: 🗉	5 B. X B C	ကြက	! 🗹				** 🖬		
Shipment (New Shipment)						$\times$				
xo Shipme Ship	Date		voice # 000 0rder # 000			Carrier UPS	r Info	Select	t UPS Ship Metho	_
Recipie			st PO#		-	2nd Day Air	<b>•</b>		Package T	
Com		ABC MANUFACTURING (	OMPANY		-	Package	<u> </u>	7	t Billing Opt	
Atte	ention 7	ATTN: JOE SMITH			Billing Option	Prepaid	-		nge UPS # ct or 3rd Pa	
Add	iress	111 SOUTH MAIN STREE	г		UPS Ac	count # 🕠	K0164	Collec	ct or 3rd Pa	
01-1-		RICHVIEW				Weight 22	2.4			
State	- 1 <u>1</u>	<u>_</u>	88888		Weight auto calculated					
Co	untry	USA			Add C.O.D Amount			T I		
Telep	hone 🛛	980-112-1111	_				Confirmation			
F		980-112-1112	-		Adult Confirmation					
	Email							Check	t if applicab	le
Ship	Inv Iter	m Part Number	Descript	tion		Qty	Unit Weight	Tot. Weight	Pkg Count	<u> </u>
	0001	00000001	BEARING	3		2.0000	1.0000	2.0000	1	
	0002	000000002 SPOKES 10			2.0000	0.2000	0.4000	0		
	0003	3 00000010 WHEEL-ASSEMBLY-		12345678901234	2.0000	10.0000	20.0000	0		
4								Press Ol	K to save	
							<u>O</u> K		<u>C</u> ancel	
v_shipme	ent				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.

## 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	Developer Help
UPS WorldShip®	Select UPS Online Connect
· · · · · · · · · · · · · · · · · · ·	JPS OnLine Connect Window Help
Shipping Pickup Log Create UPS.com Tracking Ad	Connection Assistant
Shipping Log Create UPS.com Tracking B	Batch Import
Ship To Ship From Distribution	Batch Export
Customer ID: Update Address I	Export A Single End Of Select Keyed Import Select pcMRP map
Company or Name:	Keyed Import
	Automatic Export After Processing Shipment
Attention:	Automatic Export During End Of Day Automatic Export of HAZMAT/DG After Processing Shipment More
Street:	Create / Edit Map
Room/Floor/Address 2: Department/Address 3:	(Printed on II file doop not
	Reference Number 2: appear, select
Country: Postal/ZIP Code ®: United States	
City: State/Prov:	(Printed on Label)
	Weight (pounds) Shipment Cost
Telephone: E-mail Address:	Package: Shipment:
UPS Account Number: Tax ID Number:	\$0.00
	Electronic Scale Activated
Shipper: Profile:	
WX0164 UPS Standard 💌	Pkg:         H         I         H         is NEW         Process           Add         1         Pkgs         Delete Pkg         Filment         Filment
	Add 1 Pkgs Delete Pkg
	Ver: 8.0.14 XOFY Pending: 0 Shpmt(s), M CAPS
	Iver. 0.0.14 poor in prending. 0 Supprint(s), // M LAPS

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.

FOX - C:\V814 (User: DOUG)       Modules Iools Optional Configuration Manual Developer Help	
WerddShip®         File       Edit       Activities       Iools       UPS Werd         Type in the Invoice Number you wish to ship and hit Enter. Do not click the Close Button, until you have Processed all Invoices.       Image: Create with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you wish to ship and hit Enter.       Image: Create with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you wish to ship and hit Enter.       Image: Create with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you wish to ship and hit Enter.       Image: Create with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you wish to ship and hit Enter.       Image: Create with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you wish to ship and hit Enter.       Image: Create with the Invoice Number you with the Invoice Number you wish to ship and hit Enter.         Shipping       Pickup       Image: Create with the Invoice Number you with the Invoice Numer you withe Invoice Number you withe Invoice Numer you w	
Shi Enter import key:       ? X       Options       Detail       Reference         Cut       000001       Close       t       Package       Package         Converse       Y       Next Day Air       Package       Package       Package         Street:       Saturday Delivery       Guaranteed Time:       Billing Option:       Package       Declared Value:       \$         Breence       Next Day Air       Saturday Delivery       Guaranteed Time:       Billing Option:       Prepaid       Prepaid       Prepaid       Prepaid       Prepaid       Package	
For Help, press Shift + F1 Ver: 8.0.14 XOFY	M

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</u> press the Close button 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.

<b>E FOX – C:\V814 (User: DOUG)</b> Modules Tools Optional Configuration Manual Developer H	
UPS WorldShip® Enter import key:	
Eile       Edit       Activities       Ioo         Shipping       Pickup       pc/MRP's Address ID is       UPS         Ship To       Ship       purposely not inserted       Service         Customer ID:       ✓       Update Address Book	
ATTN: JOE SMITH	ervice: ay Air  Package Type: Package Package Vour Invoice Number is automatically inserted Reference Number :
Room/Floor/Address 2:       Department/Address 3:         Prepa         Country:       Postal/ZIP Code ©:         United States       88888-         City:       State/Prov:         RICHVIEW       CA	to Third on Label) Billing is automatically inserted from Shipment. Total Weight is automatically inserted (Printed on Label)
Telephone:       E-mail Address:       Packa         [980) 112-1111 []       Image: Comparison of the second secon	Sector Scale Activated
WX0164 VPS Standard Repea	H     I     H     of 1       File     Pkgs     Modify Shpmt       Ver: 8.0.14     XOFY         Ver: 8.0.14     XOFY         Ver: 8.0.14     XOFY

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 (8.92 and above).

## 10.2.7 Queried Search Overview (see 15.14.1)

#### 10.2.8 Indexed Searches (see 15.14.2)

**10.2.9 Index (see 15.14.3)** 

## 10.2.10 Remove Marked Records (see 15.14.4)

#### **10.2.11 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

## **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

Dec/MRP for Windows Modules Tools Optional		
	I Issues parts and sub-assys from stores manufacturing for a specified sales or wo order. This Option will decrement the onha quantity and increase the quantity in WIP	rk or work order because the original and parts were defective or not listed on the BOM when the sales or
for a single stock room transaction.*	t stock transi [] - issue parts only for an assy(s) infinite levels deep to i	work order was issued.
F, Auto fills all shortages with available stock.*	∑ L - issue additional parts not listed in the BOM, or break ∑ M - issue individual Makeup or shortage parts to mfg ∑ P - issue multiple make-up shortages from a single inve	age. (not for makeup shortage)
Transfer parts between areas	E - issue multiple make-up shortages to mfg automatica E - issue parts or assemblies to Shipping. (DO NOT use E - transfer parts Between inventory storage areas	lly this of P Pick and fill shortages for multiple stock room transactions.*
Receive back comleted assys Receive back	<ul> <li><u>R</u> - Receive completed assemblies from mfg and Back F</li> <li><u>U</u> - receive Unused returned parts from mfg (neg issue)</li> <li><u>V</u> - receive parts from ReceiVing</li> <li><u>A</u> - Adjust inventory onhand qtys</li> </ul>	lush consumed component parts R, receive back completed assys from mfg and decrement WIP
Adjust onhand gtys.	T - reTurn all parts/assys issued to a sales/work order           OK         Cancel	* The M, P and F Options all change the
Accounting can run a report for all adj transactions for a time period.	The 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.

## 11.2 I-type issue: Issue Parts or Sub-assemblies to a Sales or Work Order

## 11.2.1 Issue parts/sub-assemblies to a sales or work order Step 1 - Press New

By Selecting Modules, Stockroom, and New pc/MRP will display a list of all of the stockroom transactions available for users to enter. Simply click on the radio button you want. The user name, date, and time will be stored in the Entered By field for every transaction made. Comments for each transaction are also available. Following is a description of each type of transaction.

<u>All manufacturing jobs start with one I type transaction and end with one (or more) R type transaction(s) (where I stands for Issue and R for Receive).</u> (You would enter more than one R transactions if you received back partial quantities at different times.) Users can only use the L, M, F, B, U, and T type transactions <u>after</u> performing the I transaction and <u>before</u> performing the R transaction.

## 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.

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 (Version **8.80Y** and higher).

**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.

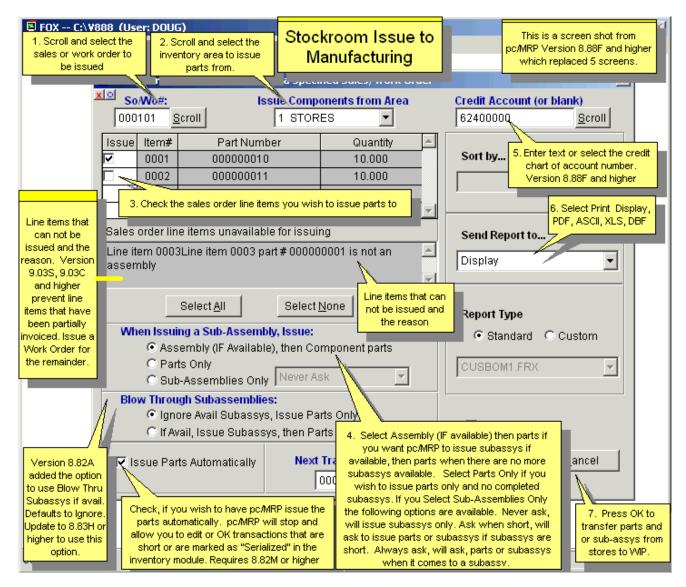
## 11.2.3 Issue parts/sub-assemblies to a sales or work order Step 3 - Select Issue Methods

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.

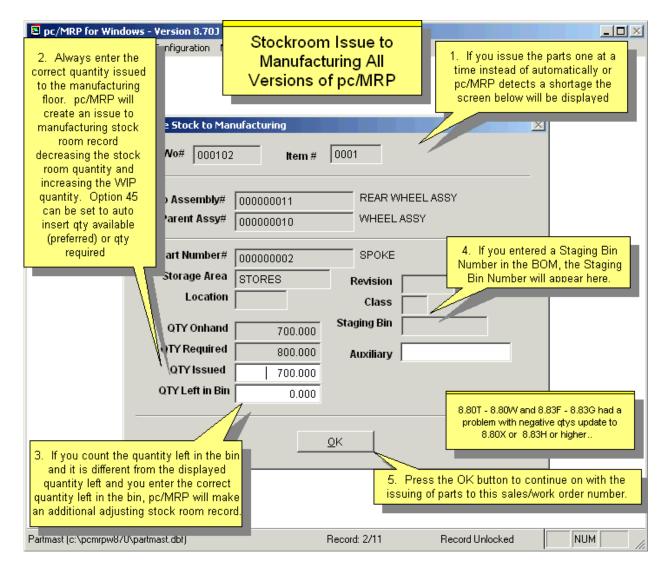
• Always Ask, will ask to issue parts or sub-assemblies when it comes to a sub-assembly. If you select parts, it will issue parts.



## 11.2.4 Issue parts/sub-assemblies to a sales or work order Step 4 – Handle any Shortages

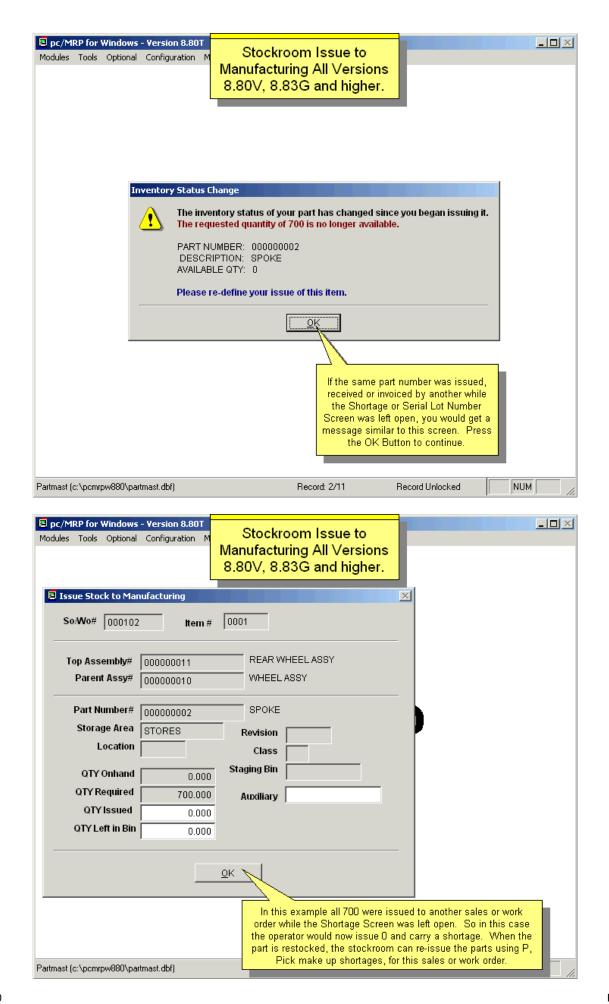
If you issue the parts one at a time instead of automatically or pc/MRP detects a shortage the screen shown below will be displayed. **Option 45** can be set to default the Qty Issued Field to the quantity available or the quantity required. We recommend you set Option 45 to the Quantity Available and 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 subassembly 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 will produce an "Issued PICK List" report containing the details of all items issued. The report can be displayed, printed, or saved as a file.

pc/MRP for Windows - Version 8.801 Modules Tools Optional Configuration     Print Preview - CNV5B0M.FRX	Stockro Manufa	om Issue t acturing All s of pc/MR			- 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
E ASSY MODEL	TUS: Released			PAGE NO: CNVSBOM	1
OO:11 PM ITEM NO: 0001 PARTS INFINITE LEVELS DEF DESCRIPTION	5 P LOCATE			olay a PIC list QUANTITY ISSUED	NEW
REAR AXLE BEARING, 3" OD x 1" ID SPOKE		0.000 0.000 0.000	S C S P P is	0 5.000 0 5.000	80m.frx om*.frx 21 4 1e: 206
▲ C (c:\docume~1\doug\locals~1\temp\51145)	502.dbf)	Record: EOF/	/3 E	Exclusive	

## 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.

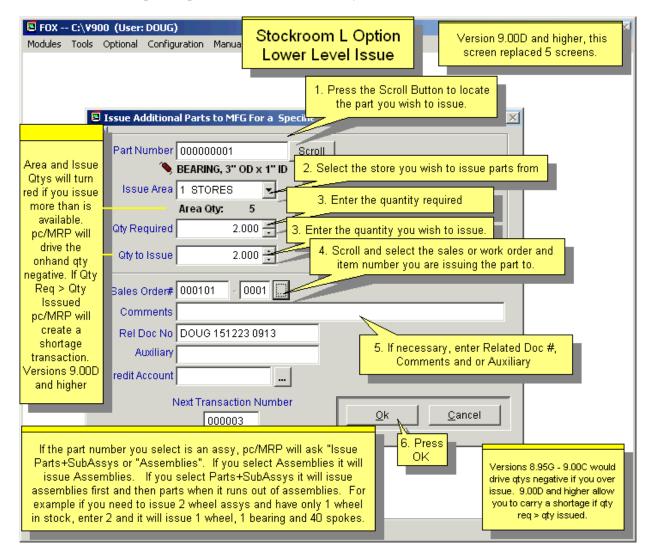
E Labels	
La <u>b</u> el Type Paper <u>F</u> eed	
Stock Issue Sheet Fed	Send <u>T</u> o
	Print
Work Order 000101 Item # 0001	O <u>u</u> tput Type
Work Order 000101	C Standard
	O Barcode
Sort Options	Report Form
Primary Sort Order Secondary Sort Order	<b>_</b>
Part Number	
	<u>O</u> k <u>C</u> ancel

## 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		
	ľ		If the sales or work orde been received back, p display the following war	ic/MRP will
is: Qt Ify Wi Qt Th	The sales/work of received back fro Do you still want Do you still want you press Continue and sue the quantity issued y Issued = Qty Require and II issue the quantity iss y Issued = Qty Require is will not leave a shor insaction 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 st the quantity required. <u>Continue</u> <u>Cancel</u>	P will pc/MRP y and	e following text g message.
Sales (c:\v900\sales.dbf)		Record: 1/3	Record Unlocked	

## 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 configurates the import process.

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)

8	X				
Location and Name of the ASCII file to Import					
	<u> </u>				
SalesWork Order Information C Automatic SOWO Item NONE 0001 Scroll	Issuing Area       1 STORES       Chart of Accounts          • Automatic       • Manual				
Lot Tracking Off	☐ Save Option Settings				

- 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.

## 11.3.4 F - Issue Multiple Makeup Shortages to Manufacturing Automatically

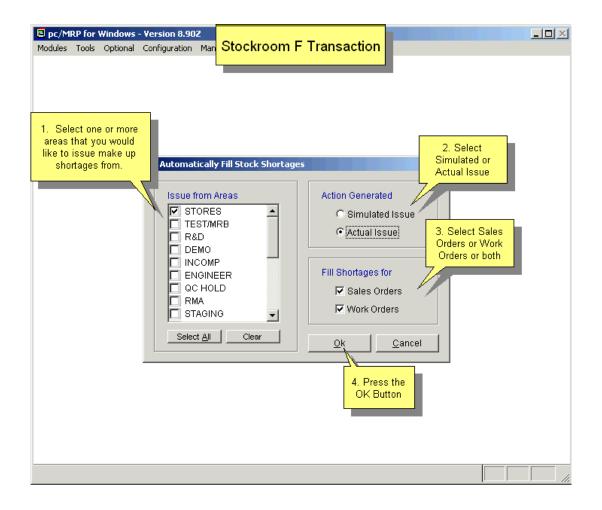
We strongly recommend using the stockroom's P option instead of the M or F options to issue makeup shortages to sales and work orders.

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).

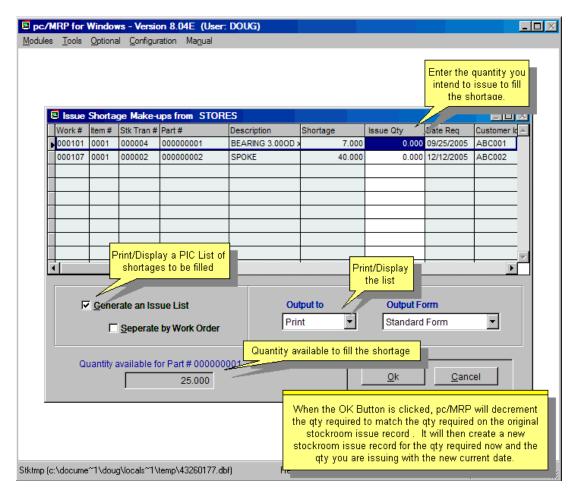
The user can select the inventory area(s) to consider when issuing items. The user also has the ability to issue only to sales order transactions or work order transactions.

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 partmaster 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.

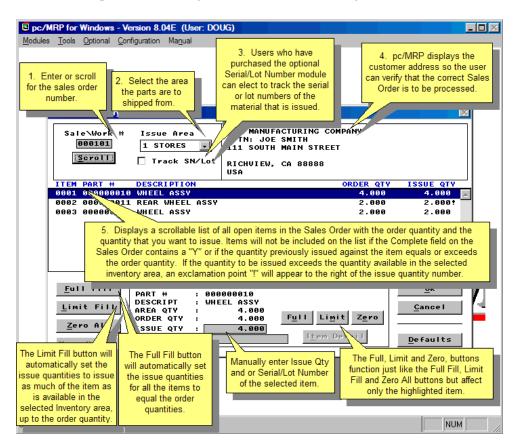
**Note:** The 'P' type transaction must have a positive quantity on hand in the chosen inventory area in order for the shortage to be displayed.

## 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.



## 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 Shipping				
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 V	Save			

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.

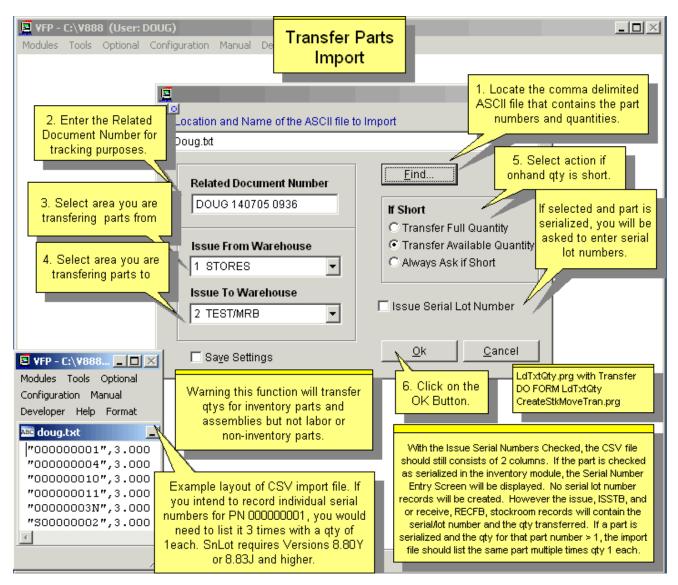
## 11.3.8 B - Transfer Parts Between Inventory Areas

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.

pc/MRP for Windows - Version 8.04E (User: I <u>Modules</u> Tools Optional Configuration Manual Enter	
1. Select area you are transfering parts from       parts between two Inventory Areas       4. Look up part(s) or assy(s) to be transfered         2. Select area you are transferring parts to       From Area 1 STORES ▼ Part Number 000000010 Scroll       5. If it is an assy select transfer as parts, parts + su assys or top assy         3. Enter quantity       To Area.       2 TEST/MRB ▼       Component Part(s) Only         Quantity       5.000 ▼       Component Part(s) Only       6. If it is an assy select transfer as parts, parts + su assys or top assy         Comments       Transferred this part for top assembly 000000010       S. Cancel will you back to New Transaction Number	s b (s t take the
000010 <u>Qk</u> <u>Cancel</u>	
7. Pressing OK will transfer the part(s), display a "Transfer Complete" Message for 2 seconds, then take you back to this screen to transfer additional parts (Qty would be reset to 0, Transaction Number would be incremented, Part Number and Comments would be reset to blank).       If the part is checked as serialized in the inventory mode the Serial Number Entry Screen will be displayed. No site of number records will be created. However the issues in the serial Number and the qty transferred. Comments would be reset to blank).         Partmast (c.speningwsporonascop)       If the part is checked as serialized in the inventory mode the Serial Number Entry Screen will be displayed. No site of number records will be created. However the issues is the serial Number and Comments would be reset to blank).	erial ue, ill You

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

	pc/MRP for Windows - Version 8.95T Modules Tools Optional Configuration Man		Receive Back Completed Assemblies								
MOG						_					
	Se	elect stock transaction process									
						The s					
back from man									ted assemblies < from manufacti		
					s not listed in th sup or shortage			1	Ωty will be decre id Qtγ of the Fin		
							gle inventory are:		will be incremer		
	<ul> <li>E - issue multiple make-up shortages to mfg automatically</li> <li>E - issue parts or assemblies to Shipping. (DO NOT use this option of invoice)</li> <li>E - transfer parts Between inventory storage areas</li> <li>R - Receive completed assemblies from mfg and Back Flush consumed component parts</li> </ul>										
		<ul> <li><u>IR</u> - Receive completed assemblies from mfg and Back Flush consumed component parts;</li> <li><u>U</u> - receive Unused returned parts from mfg (neglection)</li> </ul>									
		C⊻-re	ceive par	ts from Re	ceiVing		The steel we see	ula Dianti		1-4-1	
		_		ntory onhai					ion allows comp manufacturing.		
		<u>○ I</u> - re	l urn all p	iants/assys	issued to a sa	ales/work			oc/MRP will deci proportion of the		n
		WipQty based on the proportion of the BOM. V you receive back everything or the last of the QK QK I gramaing dty, and the will determent the with								last of the	
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receive back	J 4						_	_	be multiplie	ed by the Ave	erage Hourly
	Line iten	ns unav	ailable f	for return	from manu	facturin	9				d stored in an g Stockroom
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									ites, pc/MRP w		
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Number of Ho	urs and the	Average	e Hourly I	Labor Rat	e will be inser	rted into f	the Issued To M	lanufactu	iring Labor Rec	ord for	
employee tir	ne sheets r	nust be c	completed	d for the s	ales/work or	der befor	e receiving the	sales/w	ecord to be acc ork order back t		
manu	facturing. N	lor there	can not l	be multiple	e receive back	ks from n	nanufacturing fo	or a sale:	s/work order.		

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.

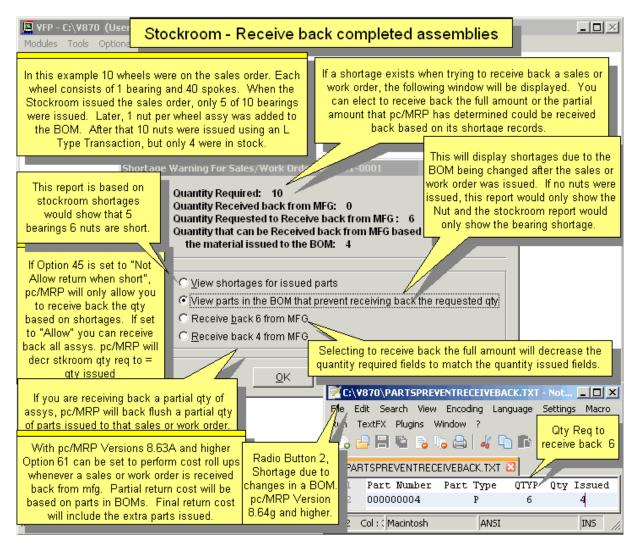
Users can enter the number of hours used to complete this assy(s). pc/MRP will multiply the number of hours and the average hourly labor rate found in Configuration, Settings and Utilities, **Option 6**. Alternately, if you have pc/MRP's Employee Time Sheet Module you can set **Option 79** to get the 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 receive back a Sales/Work Order line item that contains an inventory part instead of an assembly. Software Arts does not recommend using this option. It will remove from WIP all the parts issued to that Sales/Work Order line item and increase the quantity of the part listed on the Sales/Work order line item.

## Note:

- Not all parts for all 10 of the original assemblies have to be issued to the manufacturing, before any completed assemblies can be turned in.
- 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



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.

## 11.5 Other Types of Stockroom Transactions

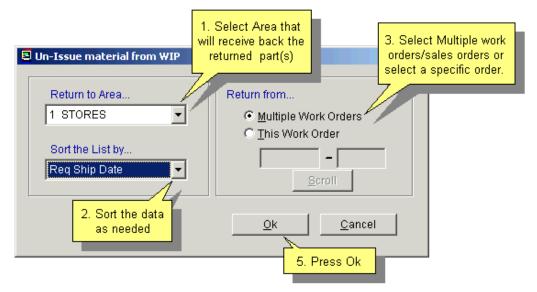
## 11.5.1 U - Receive Unused Returned Parts from Manufacturing

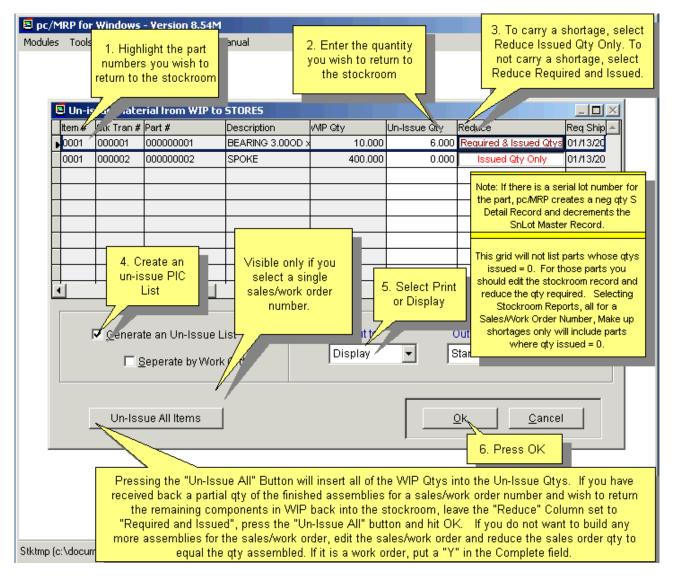
Check out the online slideshow for this transaction selection here: <u>http://www.pcmrp.com/mrp101/stockroomunissueselectu.htm</u>

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.

Dec/MRP for Wind Modules Tools Opti	Receiving back unused parts from manufacturing	
		_
	stock transaction process         1 - issue parts only for an assy(s) infin <ul> <li>issue additional parts not listed in</li> <li>manufacturing, select Modules,</li> <li>Stockroom, New, U, Receive unused</li> <li>parts from mfg, and press the OK</li> <li>Button shown below.</li> <li>g - issue parts or assemblies to Shipper</li> <li>eas</li> <li>R - Receive completed assemblies form mfg (neg issue))</li> <li>V - receive parts from ReceiVing</li> <li>A - Adjust inventory onhand qtys</li> <li>I - reTurn all parts/assys issued to a sales/work order</li> </ul>	tage) ent parts
	<u>OK</u> <u>c</u> ancel pc/MRP will create a leaving an audit tr	djusting transactions, ail for accounting.
	receive back unused the sales/work order w	C and higher you can parts from mfg even if vas received back from would not allow this.

This option allows users to return unused parts back into inventory. When users select this option, the screen shown below will appear.



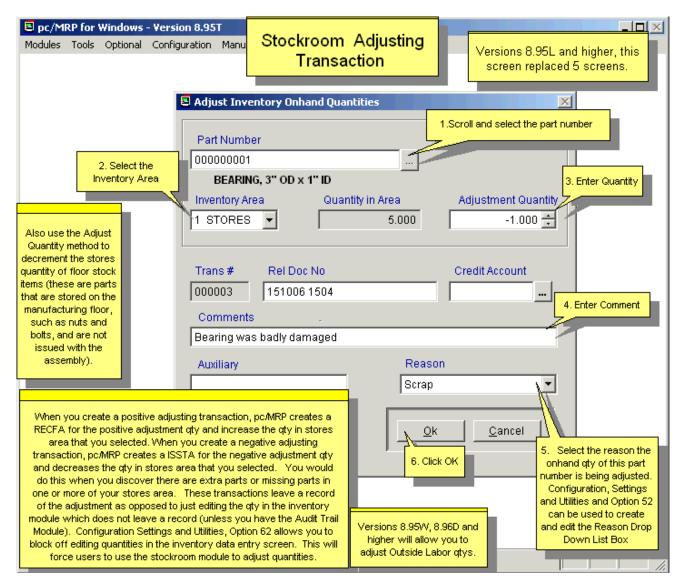


- Highlight the part that you wish to return and enter the quantity in the Un-issue Qty field.
- Continue this process until all of the items to be returned have been selected.
- Users can select to reduce **Required and Issued Qtys** or to reduce the **Issued Qty Only.** Use Required & Issued Qtys if 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 Trx#: 000241 Required: 1 Issued: 0 Returned: 0 Comment: Shortage Qty created by an un-issue action for 1

## 11.5.2 A - Adjust Onhand Quantities



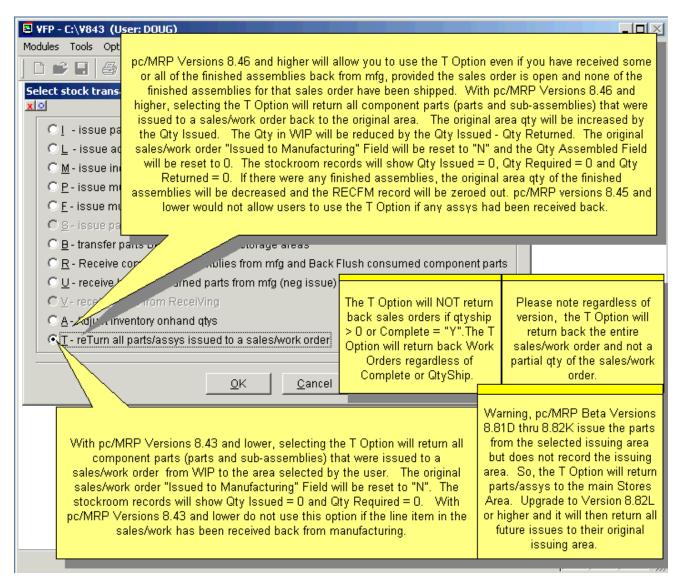
This option allows the onhand quantity of parts to be adjusted (increased or decreased). It leaves a record of the adjustment; while simply editing the part number qty on the inventory screen, would not leave any records (unless the optional Audit Trail Module is activated). Increasing the onhand quantity 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



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".

## 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.

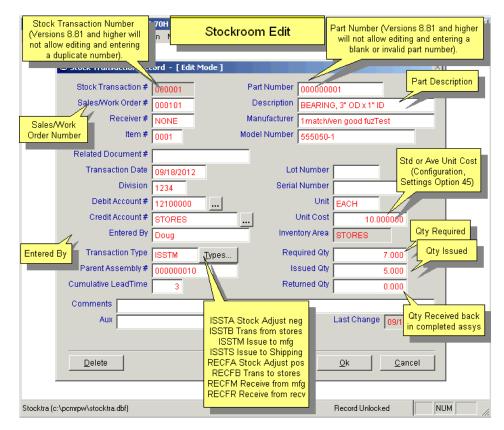
## 11.6 Edit/View/Delete/Undelete

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.



## **Scroll Partmaster**

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.

## 11.7 Reports

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

pc/MRP for Windows - Version 8.70H Modules Tools Optional Configuration N	Stockroom Reports	
Sub-Tota Number,	All Stock Transactions, All for a Sale/W led by Sales/Work Order, All for a Produ Shippable Sales Orders, A single Stock for a Credit Account Number, All for an A	ict Code, All for a Related Document Transaction, All for a Debit Account Aux Account or all for an Inventory Area.
All Stock Transactions	▼ Sort	4. * Select Sort.
2. Select Records to be Included. Include All Stock Transactions Sissued to Manufacturing Only Sissue to Shipping Only Received from Manufacturing Received from Receiving On Make-up Shortages issued to All Transactions for a Stockro Caljusting Transactions Only Cycle Count All Records All Records	not be displayed because was not active when parts int not serialized, or issued de of date range. Comments Serial/Lot Numbers Include Dedicated WO a Only Select All Sub-Totaled to enable by MFG only Select All Sub-Totaled to enable by MFG only Select All Sub-Totaled to enable by Display A Display Comments Include Dedicated WO Report To: 01/01/1975 09/20/2012	saction Number  I Report to lay Indard C Custor S. Send Output to Display, Printer, PDF File, ASCII Text File, Excel File, DBF File, HTML File.

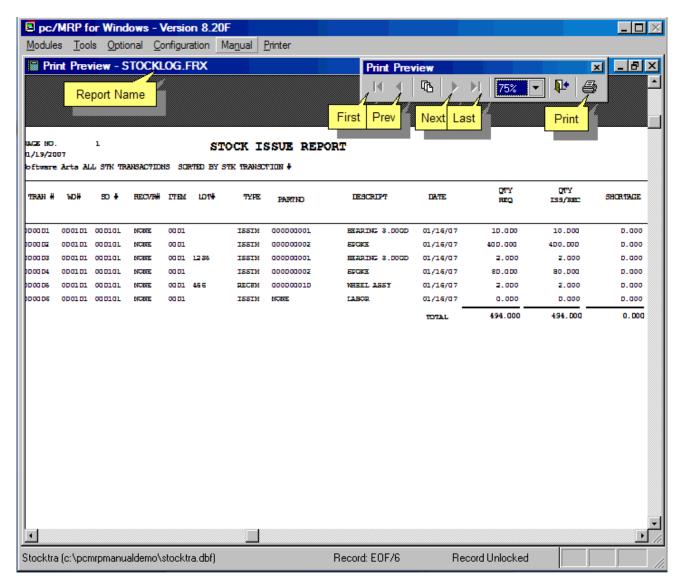
Selecting Make-up Shortages issued to MFG and checking the Show PO Info box, pc/MRP will provide shortage amounts along with related open PO Information. The "Issued Shortage Report" shows for each part the quantity that is short for the SO/WO, and the current onhand (Stores only) quantity, that could be used to fill this shortage.

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.



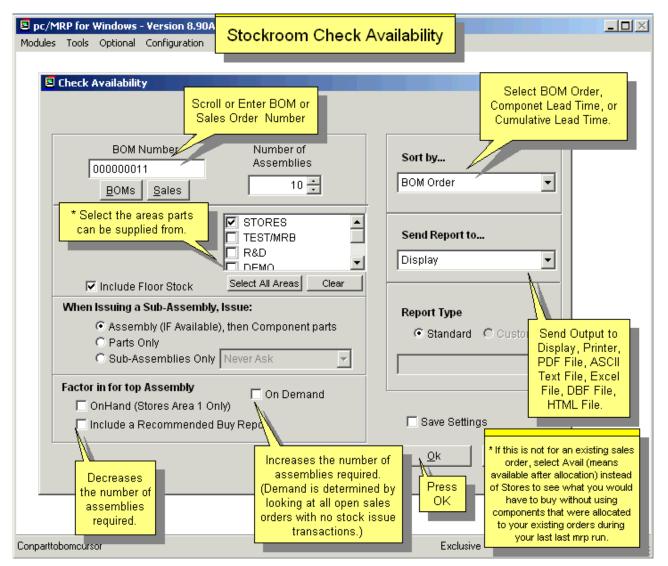
## **11.8** Check Availability (of parts for a specified assembly)

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.

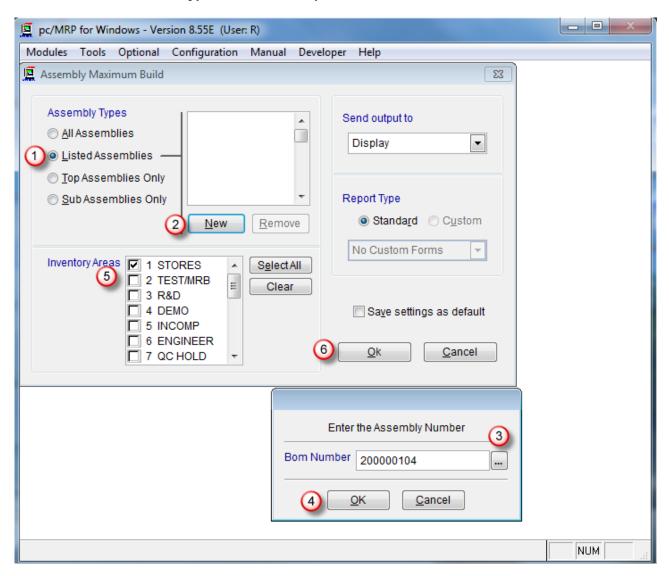


## **11.9 Maximum Potential BOM Build**

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
Modules	Tools	Optional	Configuration	Manual	Developer	Help	Printer				
📔 Print	Preview -	BOMBUILE	D.FRX								
											<u>^</u>
Tre	xx Bi	cycles							PAGE NO:1		
DATE	:03/10/	2011							BOMBUILD. FR	¢	
Maximum potential number of Boms that can be built for Listed Assemblies											
II					Areas 1	nclu	ded: Onhand				
BO	NUMBE	R	DESCRIP	TION			DIVISION	N QUANTITY IN INVENTOR		UMUM DOTY	
2000	000104		Brake A	ssembly	Rear Kit			0.000	00	0.0000	
4											-
						1.505					·
Bomlist					Heco	ord: EOF	/1 Exclusive	e		NUM	

## **11.10** Convert Parts to Assemblies

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.

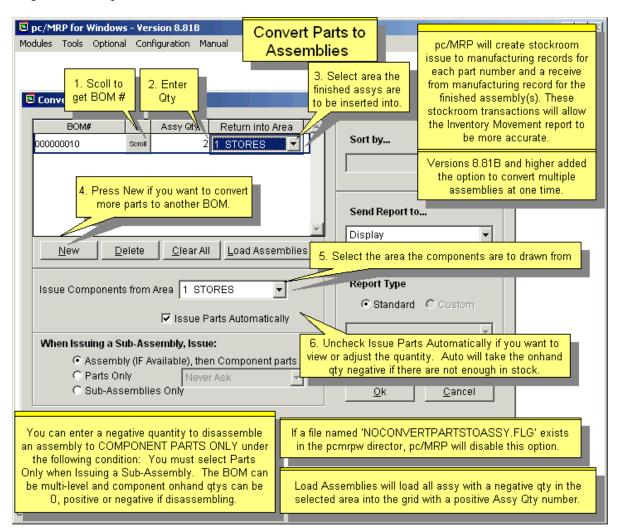
There is no ability to trace and fill shortages on the manufacturing floor.

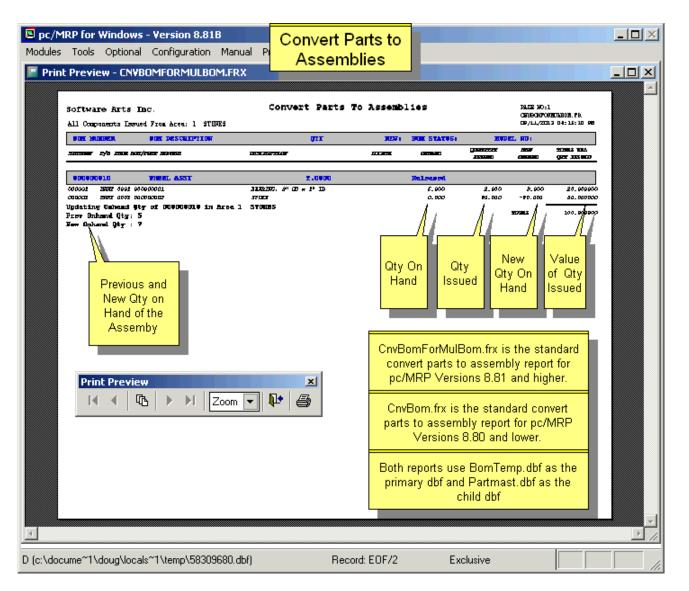
The MRP and Inventory Movement Reports may reflect onhand qtys of finished goods that are not yet completed.

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.





**Note:** Earlier versions (**8.90AL** and below, **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 Qtys". 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)

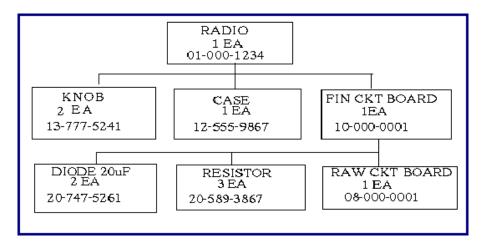
# 11.15 Remove Marked Records (see 15.14.4)

# 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 subassembly. 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 subassembly 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.

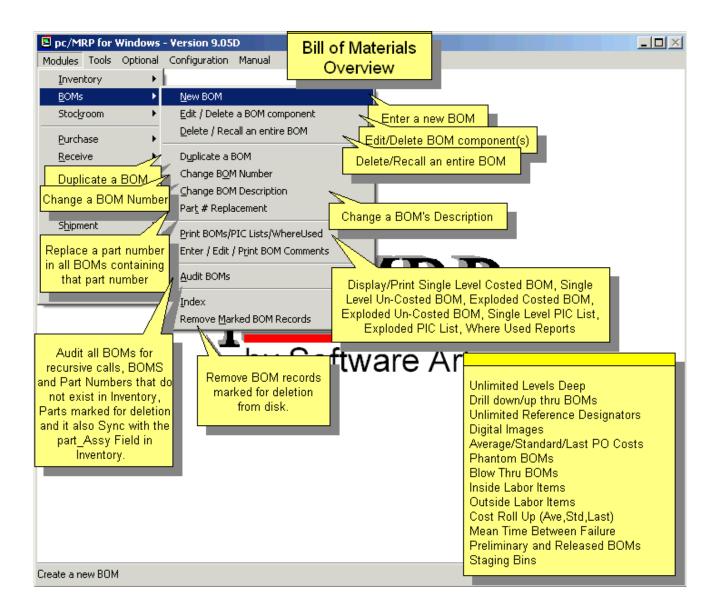
A single level printout of an example BOM is shown below:

BOM NUMBER	: 00000012	REV :	
	ON: REAR END ASSEMBL	Y MODELNO:	
DATE	: 12/29/97 : 1.0000		
QTY	. 1.0000		
UNCOSTED SIN	GLE LEVEL BOM REPO	DRT	
		DRT MANUFACTURER MODELNO	QTY/AS
ITEM BOM/PART NU			<b>QTY/AS</b>
ITEM BOM/PART NU	MBER DESCRIPTION	MRNUFACTURER MODEL NO	1.00
ITEM BOM/PART NU	MBER DESCRIPTION	MANUFACTURER MODELNO GUN MANUFACTURIN	

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:

DOM HEREED	. 00000012			
	: 000000012		REV :	
BOM DESCRIP	TION: REAR END AS	SSEMBLY	MODELNO:	
DATE	: 12/29/97			
OTY	: 1.0000			
	XPLODED LEVEL H		Ţ	0077017
P/B ITEM BOM/P	ART NUMBER	DESCRIPTION	L	OCRTE
	ART NUMBER		L	OCATE TSTPP
P/B ITEM BOM/P	<b>ART NUMBER</b>	DESCRIPTION		
P/B ITEM BOM/P PART 002 00000	ART NUMBER 00004 00010	DESCRIPTION REAR TRANSAXLE	01234567890	
P/B ITEM BOM/P PART 002 00000 BOM 001 00000	<b>ART NUMBER</b> 00004 00010 000001	DESCRIPTION REAR TRANSAXLE WHEEL ASSEMBLY123456789	01234567890 INLESS STEE	TSTPP

BOM COMMENTS:

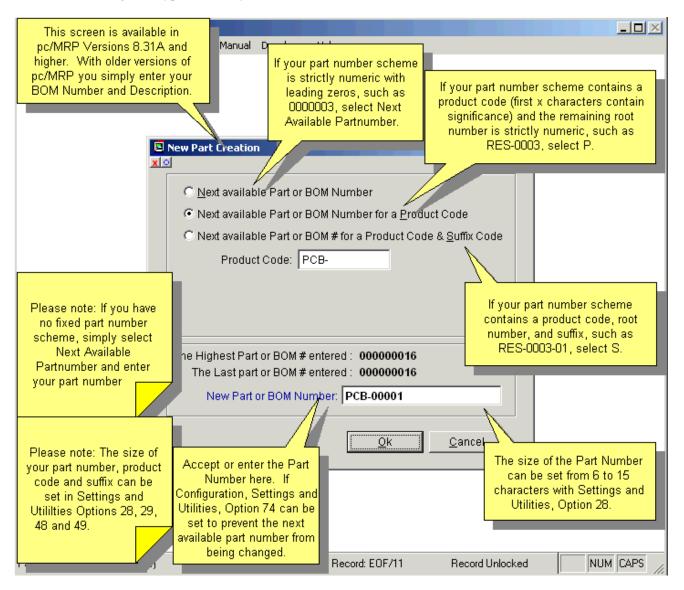


# 12.2 Enter a New BOM

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.

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.



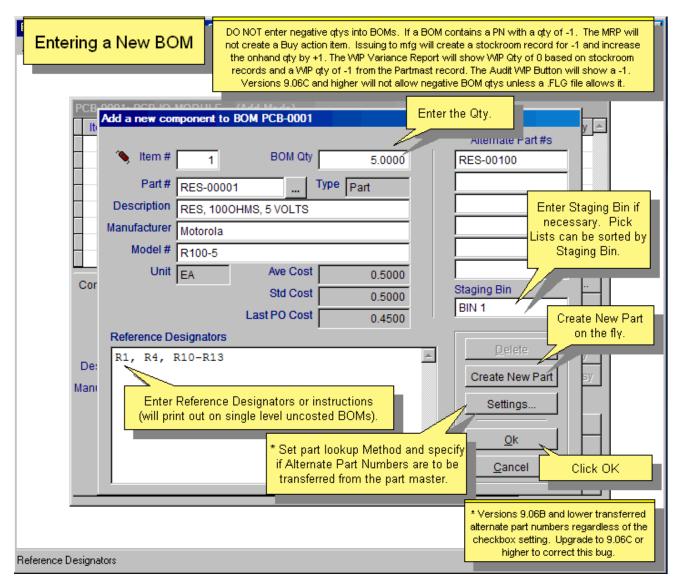
#### 12.2.1 Enter a Part or Sub-assembly Number

pc/MRP for Windows - Version 8.208 <u>Modules</u> Tools Optional Configuration Magua     Entering a New BOM	
	1tity       Image: Sepy       Sepy
<u>O</u> k <u>C</u> ancel	P art led
Quantity per Assembly of the component	CAPS

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.)

pc/MRP for Windows - Version 8.20	
Modules Tools Optional Configuration	Manua Entering a New BOM
PCB-0001. DCB IO MODU	
Add a new component t	to BOM PCB-00001
	Alternate Part #s
1 Item #	BOM Qty 1.0000
Part #	
Inventory Database	Number or Description
Indexed S	Search (Fastest)
	Sort Order
Co Save Settings	Part Number
	2. Enter part of the Part Number or Description
Go <u>T</u> op	Begin Scrolling
	RES Search
Go <u>B</u> ottom	3. Click on Search
Part Number	Rev TypeDescription Model Nur
Mar CAP-00001	P CAP, 50 uF, 5 VOLTS
CON-00001	A P CON, PCB MOD JACKS 555052-1
FIN-00001 RES-00001	P         FINISHED GOODS, IO CHASIS         M-00001            P         RES, 1000HMS, 5 VOLTS
	Ok , Cancel
	<u>Cancel</u>
	4. Press OK
List of applicable records	CAPS //

# 12.2.2 Enter Quantity, Reference Designators and Staging Bin Number



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.

Press the **Ok** Button to save this entry.

pc/MRP for Windows - Version 8.20B	
Modules Tools Optional Configuration Manual	
	a
Item         Type         Part Number         Part Description         Quantity	1
1 P RES-00001 RES, 1000HMS, 5 VOLTS 5.0000	1 1
The part has now been added to the BOM	
Component Ref. Designators Miscellaneous New BOM item	1
Item # 1 BOM Qty 5.0000 Attempts Bott #0	
Press Add to add another	
Part # RES-00001 Type Part the BOM g To Edit o	
Description RES, 1000HMS, 5 VOLTS the part of press	
Manufacturer Motorola	
Model # R100-5	
Offic EA Ave Cost 0.5000	
Standard Cost 0.5000 Staging Bin	
Last PO Cost 0.4500 BIN 1 <u>E</u> inished	
Exit BOM data screen with changes	

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):



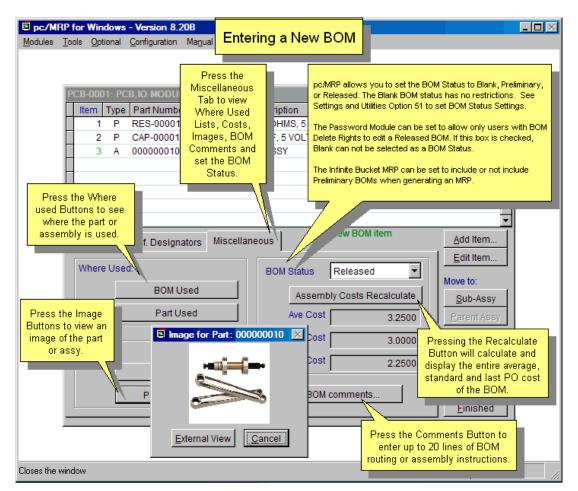
IRP for \	Windows	- Version 8.2	OB CONTRACTOR CON	
<u>T</u> ools	<u>O</u> ptional	<u>C</u> onfiguration	Ma <u>n</u> ual	
PCB-	0001: PC	B,IO MODUL	E— (Edit Mode)	
Ite	m Type	Part Numbe	r Part Description Quantity	•
	1 P	RES-00001	RES, 1000HMS, 5 VOLTS 5.0000	
	2 P	CAP-00001	CAR 50 UE 5 VOLTS 1.0000	
			The Ref Designators Tab will display the	
			Reference Designators for the part number	
<u> </u>			selected. Press the Edit Button to edit the Reference Designators.	
<u> </u>				귀
Com	ponent	Ref. Design	tors Miscellaneous Add Item	41
Ba	rt# REG		Edit Item	
Га	"" JRES	6-00001	Description RES, 1000HMS, 5 VOLTS Move to:	
	Refe	rence Design		1
	R1,	, R4, R10	-R13	11
			Parent Assy	1
			Changes:	
			Save	11
			Revert	11
			<u>Reven</u>	1
			<u>F</u> inished	
	omponent:			_

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**. Note: 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.

### 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

(To delete an entire BOM, see the next section.)

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.

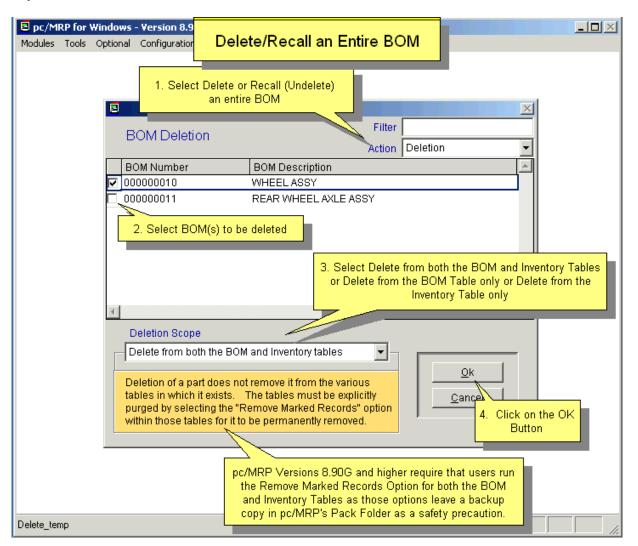
Select the desired item in the BOM and click on the Edit Item button. Now you can make your changes or mark the item for deletion. Now the deleted items are displayed in red. Deletion is a two step process; to permanently remove the records from the database table, set an administrative lockout, and then select BOMs, Remove Marked Records.

pc/MRP allows users to mark multiple items for deletion, on one screen as shown below.

pc/MRP for W Modules Tools (	Right Click will renumber items based on current number or	Edit/Delete a BO Version 8.80		
00000071	current sort order	Clicking on a column will sort by that column	1. Select the ite	
	Type         Part Number           1         P         000000001           2         P         00000002           3         L         000000013           4         L         000000014           Itiple items can be deleteen with versions 8.80           ent           Ref. Designators           #         4         B           #         4         B           #         4         B           #         4         B           #         4         B	Part Description BEARING, 3" OD x 1" I SPOKE LABOR INSIDE LABOR OUTSIDE Teted in this and higher.	wish to edit or d	
Mode U a List of the BOM con	nit HR Ave Standard Last PO	20.000000	Staging Bin	Changes: Sa <u>v</u> e <u>R</u> evert <u>F</u> inished

# 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). (Versions **8.90F** and below offered to remove marked records immediately.)

# 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:** With pc/MRP Versions **8.82F** and lower, the new BOM's Status will be blank. With pc/MRP Versions **8.82G** and higher the new BOM's Status will be the same as the original BOM. For Versions **8.83D** and higher, the BOM's Status for newly created BOMs and for BOMs created by duplication; both are set in **Option 51**.

# 12.6 Change a BOM Number

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.

pc/MRP for Windows - Version 8.70F Modules Tools Optional Configuration Mar BOM C	nange Number
<ul> <li>Select the modules to Upd</li> <li>Invoices</li> <li>Receivers</li> <li>Sales/Work Orders</li> <li>Purchase Orders</li> <li>Inventory</li> <li>Alternate Part #s</li> <li>Bills of Materials</li> <li>Alternate Part #s</li> <li>Stock Transactions</li> </ul>	ate ✓ Accounting Transactions ✓ IB-MRP Actions ✓ Sales Quotes ✓ Purchase Requests (RFQs) ✓ Serial / Lot Numbers ✓ Routings ✓ Engineering Change Notices ✓ Inspections 1. Check all of the modules you want the BOM Number changed in. If you have open ongoing records for this BOM Number check the box(s) that apply
pc/MRP will automatically change the BOM number in the BOM and Inventory Module.	Ok         Cancel           2. Press the OK Button         Note: If you check the modules, they will contain the new BOM Number. If you un-check the modules, your historical records will be accurate but the BOM Number will no longer exist in the partmaster.

**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**

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.

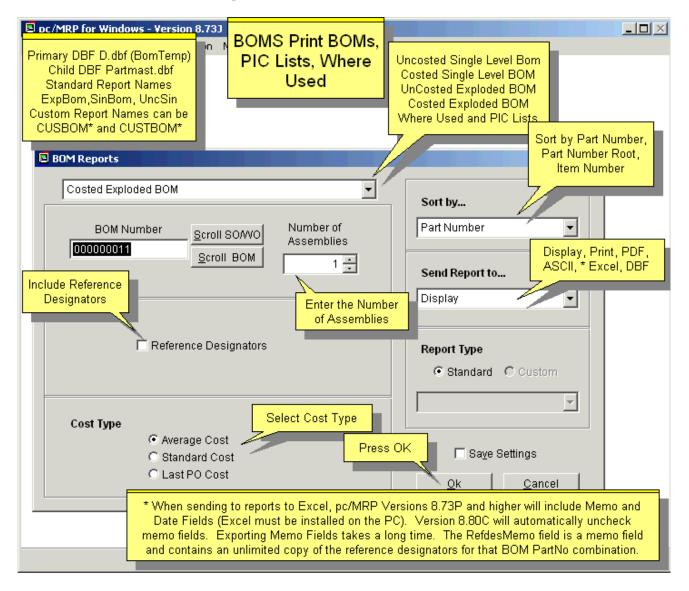
#### **12.8 Part Number Replacement**

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.

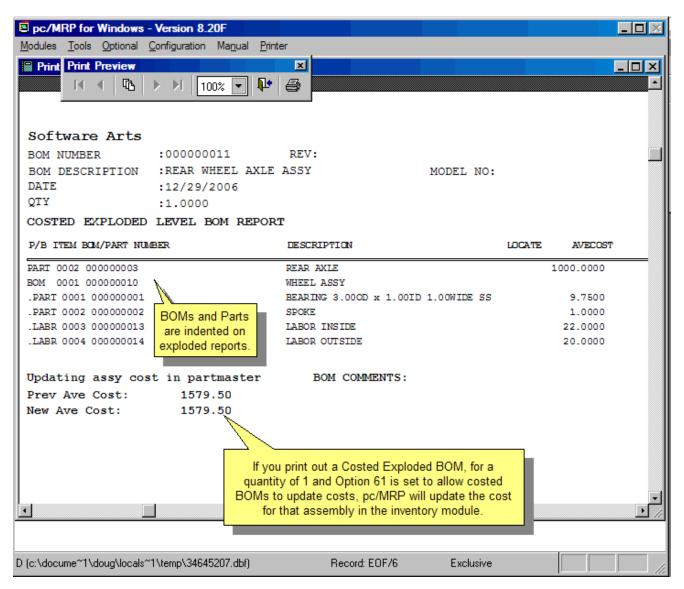
# 12.9 Reports/Lists

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:



**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.

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 (see 15.14.3)

# 12.13 Remove Marked Records (see 15.14.4)

# **13 Work Order Module**

# 13.1 Overview

VFP - C:\V905 (User: DOUG)		
Modules Tools Optional Configuration Ma	Work Order Overview	
Inventory       BOMs       Stockroom       Purchase	t Modules,	pc/MRP Versions 9.01 and higher added the option to create and edit multi-line item work orders in place of single line item work orders
Receive ► Work Order ► New	Drint/Dianlau/Enroil	- unally surface
Sales Order 🕨 Edit / View	Print/Display/Email	a work order
In <u>v</u> oice <u>P</u> rint <u>Shipment</u> Reports	Print/Display w	rork order reports
Address Book Accountion Re-Index the sales and work orders	Records	and work orders marked for deletion and work orders over X years
assys are deducted from stock. Wo	vork orders for sales orders as that is ers (for consolidation purposes, do no hen create work orders. umable or dedicated to a specific sal e you from entering sales orders as s rk orders can only put assys and sub	just an extra step. t want to build to order, would like to
those assemblies and sub-assemblie	s once they have been built.	
Create a New Work Order		NUM //

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 topassembly 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 topassembly. 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 to drag out all the machines for topassemblies. 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.** (Versions **8.95F** and lower only gave a warning.)
- 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.

E FOX C:\V901 (User: DOUG) Modules Tools Optional Configuration Manual	Work C	order New		_ <b>_</b> ×
B Work Order (Add Mode - Single Item)			* Back to view previous line	×
X 0 SO/WO # 000104 Change # 0 Order Date 11/16/2015			Next to view next line item	Back
Customer Billing / Shipping	Delivery	Item Infe	* View all line items	Next
Root Address Lookup	· ·	Account # A	Add, View Links to files	Litems/Notes
Customer ALLIED ELECTRONICS		Addr Type VEN		Links
Attention ATTN: JOHN DOE		Terms TER	* Add a line item	
Street 1234567 2ND STREET		Cred	a line item (Blanket WO)	<u>A</u> dd Item
City SAN JOSE		Contont Lea		Clone
State / Zip CA 12345-	1234 Re	elated D ** De	lete a work order line item	Breakdown
Country USA		Territory		Delete
Phone / FAX 408-248-6413 980-112-1113	3	Set Look-u	p, update, pricing options	Delete
e-Mail sales@alliedelec.com/		Er		Options
Item Part Number Rev Description		Create a Ne	w Part Number on the fly	
00/VO 000000010 WHEEL AS				Logbook
	x % Freight		a New Address on the fly	Create Par <u>t</u>
3.000 EA 2000.000000 0.0 Displayed Currency BASE CURRENCY	000 0.0	0 0.00 p.2. Division	Serial Number	Create Add <u>r</u> ess
Comments Displayed Currency BASE CORRENCY				
			Hold Location	<u> </u>
	Dragair - 1	ha Einiahad Du		<u>C</u> ancel
* Available with pc/MRP Versions 9.01B and higher.			itton will save the work order issue this work order to mfg,	
** Versions 9.06B and higher offer to Delete or Un-Delete the entire work order.			ew, Issue to Manufacturing.	

# **13.5 Consumable Work Orders**

If you are going to use work orders, <u>we recommend marking work orders as consumable and not 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 on 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.

#### **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 xxxxxx, created an undedicated WO referencing the WO/SO."

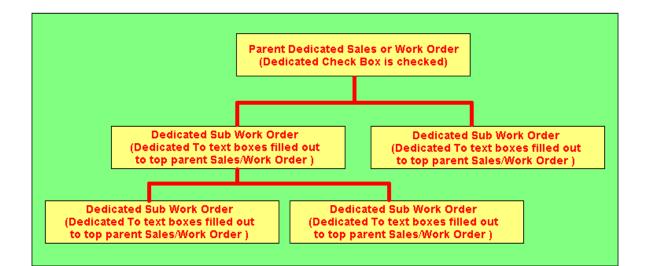
Once a sales or work order has been issued to manufacturing, you cannot change its dedication information.

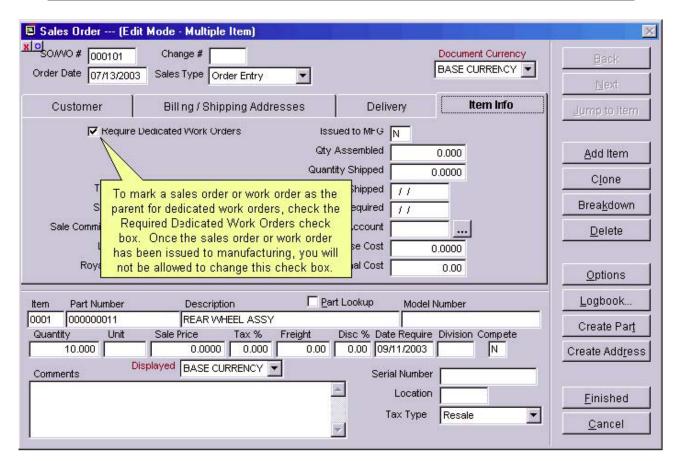
Dedicated sub-work orders for the lowest level assemblies must be issued first and received back from manufacturing before the next level up sub work orders can be issued to manufacturing. Failure to do so could cause pc/MRP's Infinite Bucket Program to generate error messages notifying you it created un-attached make action items. You would have to un-issue the work order and re-generate the MRP to correct the situation.

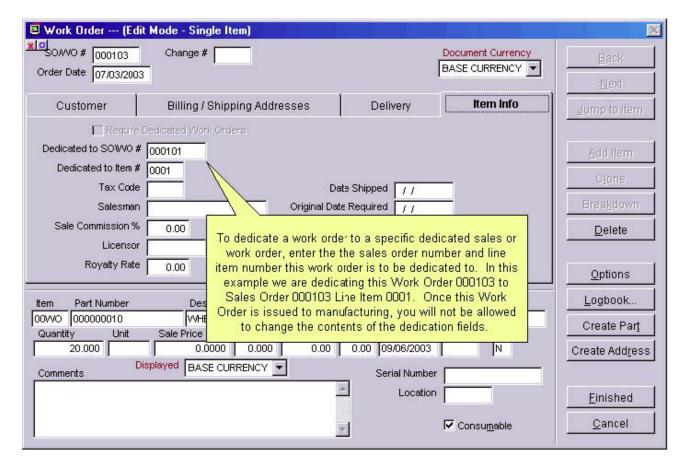
The dedicated sub work orders must have a date-required field that is prior to the date-required field on its parent sub-work order. If not, pc/MRP will insert an error message into the 'MRP Error Message Log' and the 'Make Push Pull Report', warning you that the date-required should be changed. pc/MRP 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.







# 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 Queried Search Overview (see 15.14.1)

# 13.9 Indexed Searches (see 15.14.2)

# 13.9 Index (see 15.14.3)

# 13.10 Remove Marked Records (see 15.14.4)

# 13.11 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 olden 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

BOMs       >         Stockroom       >         Purchase       >         Receive       >         Work Order       >         Sales Order       >         Invoice       >         Shipment       >         Address Book       >	Accounting Overview pc/MRP Versions 8.20H and higher will create a CloseInProgress.FIg when a close is started. It will clear itself in 1 hour if the close is aborted. With Versions 8.23A and higher the person who initiated the close can go back in immediately and re-close. GL Transactions Batch Post Receivers (Versions 8.90M, 8.94J, 8.95E or higher)
E <u>x</u> it	Accounts Payable Batch Post Receivers Pay Bills / Print / Clear checks Enter AR Vouchers
	Accounts Receivable Batch Post Invoces (Version 8.41 and higher) Receive Customer Payment Receive Customer Payment Receive Customer Payment
	Beports         Displays running balance for each Chart of Accounts           Drill Down Reporting         Displays/Prints graphical Expense and Revenue Reports           Income & Expense Graph         Enter/Edit Credit Memo for a customer
Additional Menu Item not shown on this screen	Gredit Memos       Image: Constraint of Accounts         Debit Memos       Image: Constraint of Accounts
shot, Wells Fargo Reconcilement (Well Fargo will only cash checks on this list)	Chart of Accounts       Enter/Edit Tax Entities         Tax Code Entity       Close/Reclose a month and print financials         Post Month w/ Print Einancials       Create a monthly Budget for each Chart of Accents         Enter / Edit Budget Figures       Provides a report any and all accounting errors.
[.	Audit Transactions     Updates Customer Balances in Address Book.       Audit & Update Address Balances     IRS Tax Forms and 1099, 1096 for vendors
//	IRS Tax Forms

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.

New General Ledger Transaction			
Select the GL transaction type			
Cash and carry sale			
C O Register accounts receivable invoice			
○ <u>R</u> Accounts receivable payment			
O P Cash purchase or debit memo			
O I Register accounts payable invoice or debit memo			
○ E Accounts payable or debit memo payment			
○ <u>W</u> Register a payroll Check			
○ A All other transactions - rent, taxes, etc			
O <u>K</u> <u>C</u> ancel			

# 14.1.3 Accounts Payable

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.

	Please select an option to perform.							
Select: © General Ledger Transactions								
00,000	C Balance for Date/Time period based on Transactions							
	C Balance for Date/Time period based on Chart of Accounts							
	C Accounts Payable reports							
	C Accounts Receivable reports							
	C FIFO Inventory Value report							
	C Sales Tax report							
	C Sales Commission report							
	C Cost of Sales report							
	C Purchasing Price variation report (PPV)							
	C Cash Out Projection report (PO's)							
	C Check Reconciliation report							
C Debit Memo reports C Licensor Royalty reports								
								C Manufacturing Cost Variance report
	<u>O</u> K <u>C</u> ancel							

# 14.1.6 Drill-Down Reporting

Account#	Description	Account Type	Credit/Debit
10100000	CASH ON HAND	N	AC
10200000	BANK CHECKING ACCOUNT	N	AC
10300000	BANK 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	FURINITORE & FIXTORES.	N	AF
13300000	TRANSPORTATION EQUIP.	N	AF
13400000	LEASHOLD EQUIPMENT	N	AF
13500000	LAND	N	AF
2600000		M	
			Cancel

This module will allow you to select a chart of accounts number as shown below.

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.

FOX - Modules	- C:\V Tools	783 Optional	<u>C</u> onfiguration	Ma <u>n</u> ual	De <u>v</u> elop	er <u>H</u> elp						Þ
🗅 🖻		<i>6</i> Q,	👗 🖺 💼	юQ	!	2	[	- E 9	r 🖻	A 🕄		
BANK CHECKING ACCOUNT (1020000) Debit Account												
Ko Dat	te	Trans#	Compa	any Name			Descripti	on	Invoice#	Receive#	Balance	4
04/23/2	2003	000169	ABC MANUFAC	CTURING	CO	BEARIN	G		NONE	000005	-48281.95	j
04/23/2	2003	000170	ABC MANUFAC	CTURING	CO	BEARIN	G		NONE	000001	-48365.20	)
04/23/2	2003	000172	ABC MANUFAC	CTURING	CO	PART 1			NONE	000009	-48370.75	j
04/23/2	2003	000174	ABC MANUFAC	CTURING	CO	BEARIN	G 3.000D:	x 1.00ID 1	NONE	000020	-48381.85	j
06/05/2	2003	000179	HEWLET PACH	KARD		WHEEL	ASSEMBL	Y123456789	000163	NONE	-47507.31	Ī
06/24/2	2003	000180	ABC MANUFAC	CTURING	CO	BEARIN	G		NONE	000003	-47557.39	ī
06/24/2	2003	000181	ABC MANUFAC	CTURING	CO	BEARIN	G		NONE	000006	-47607.47	r
06/24/2	2003	000182	ABC MANUFAC	TURING	CO	BEARIN	G		NONE	000007	-47657.55	ī
06/24/2	2003	000183	ABC MANUFAC	CTURING	CO	TEST BO	OM YABA		NONE	800000	-50065.30	ī
06/24/2	2003	000184	ABC MANUFAC	CTURING	CO	INSIDE I	LABOR TE	ST	NONE	000010	-50065.30	ī
06/24/2	2003	000185	ABC MANUFAC	CTURING	CO	PAPER (	OFFICE SU	JPPLY(Nonl	NONE	000012	-49965.30	ī
06/24/2	2003	000185	ABC MANUFAC	CTURING	CO	PAPER (	OFFICE SU	JPPLY(Nonl	NONE	000012	-51630.30	ī
06/27/2	2003	000186	ABC MANUFAC	CTURING	CO	REAR W	HEEL AXL	E	NONE	000013	-52740.30	ī
08/01/2	2003	000188	ABC MANUFAC	CTURING	CO	NUT			NONE	000023	-52758.06	ī
09/09/2	2003	000190	CUSTOMER F	OR TEST	ING	WHEEL	ASSY		000404	NONE	-50538.06	ī
10/07/2	2003	000193	CUSTOMER F	OR TEST	ING	WHEEL	ASSY		000405	NONE	-39438.06	Ĩ
11/12/	2003	000195				TEST			NONE	NONE	-39438.06	-11
			Double Clic Transaction v Trans	vill displa						Invoice or display t	licking on the Receiver will he Invoice or ceiver.	
Sort by     Date     Ending balance       Show Transaction     Show Invoice     -39438.06												
												ī

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 - Version 8.802 Modules Tools Optional Configuration Mar	Accounting Graph Income and Expense Print	
50000 40000 20000 20000 0 Juli4 Aug14 Sep14	me and Expense	Income Expense
Income & Expense Summary Income & Jul14 A Revenue 20000.00 Cost of Goods Sold -17200.00 Cost of Labor 2200.00 Operating Expenses 1300.00 Wire Oth To print out the Graph or Graph and Relevant Data, press the Print Button.	Output Type © Graph and Relevent Data © Graph Only Saye current settings as default Qk Qancel 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

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. **8.90AJ** and above.)

As an alternative solution, users can import Tax Codes by ZIP codes from a .CSV file. (**8.88H** and higher.) 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.

# 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.

🧕 Po	st Month w/Print Financials Screen		×				
This is your first close							
	Month 7 × Year 2012 ×	Select a prior period action to perform © Reclose a prior month C Reprint a prior month(report any variance) C Reprint a prior month(historical reprint)					
FYI:	This process will initialize the starting balance	s 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 🗸					
	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     Send Report to       Manually step thru posting (VERY SLOW)     Display						
		<u>O</u> k	Cancel				

# 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

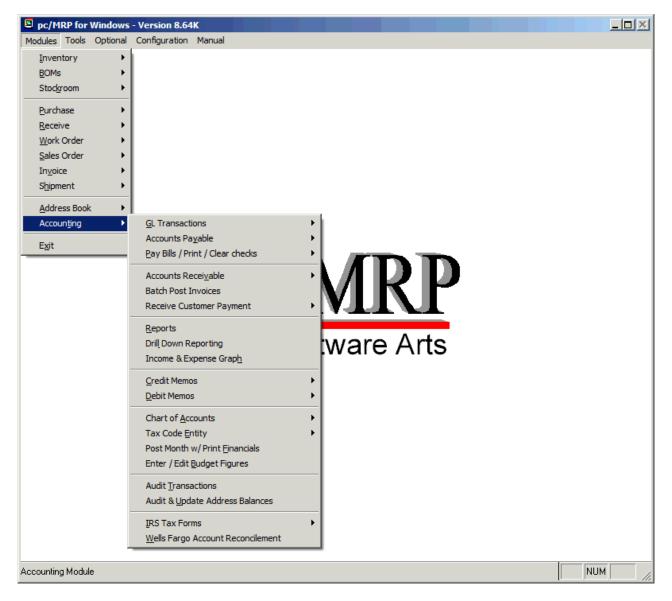
This selection allows users to set form criteria and print IRS forms 1099MISC and 1096. For further details, see Chapter 14.17.1.

#### 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	Open Recei	ver and Open Debit Mo	emo Totals	<u>O</u> k
Complete <u>A</u> ll	AP w Debit	Memos:	1459.6000	
	Open Debit	Memos:	0.0000	<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.

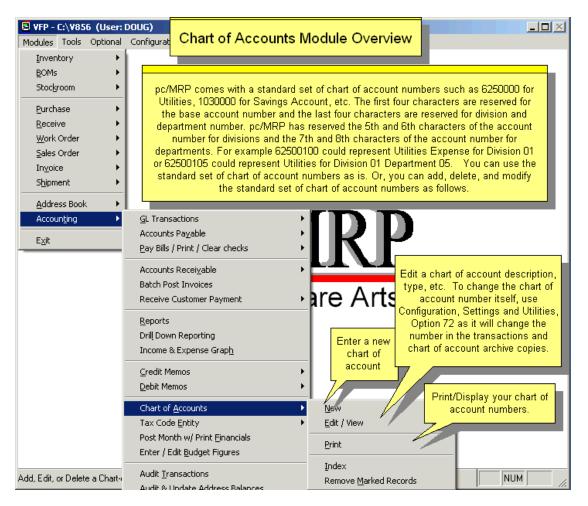
Pressing the Ok button will change the invoice complete fields as per the changes you made with the closer.

### **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:\V856 Modules Tools	Establish your Base Chart of Assount Numbers
	1. Enter a new Base Chart of Accounts Number       4. Select Account Type       If an account is marked as Inactive, it will be highlighted in yellow in the chart of accounts scroll window.         Chart of Account Number       Number       C       Account is marked as Inactive, it will be highlighted in yellow in the chart of accounts scroll window.         Account # 12110000       Acct Type       AC       Account is marked as Inactive         Debit/Credit       Debit       Tax Deduct       No       This is a Checking Account         Description       Petty Cash       5. Select if it is Tax Deductable or not.       If the account Type is AC and it is a Debit Account, pc/MRP will allow you to mark the account as a Checking Account. Requires pc/MRP Version 8.50 and higher.
credited, use	Period 06       Period 07         Period 07       Period 08         Period 09       Period 10         Period 10       Period 11         Period 12       Period 12         of account has been debited or rs will no longer be able to edit ype or Debit and Credit Status.       Save/Exit         Cancel       Save/Exit         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.

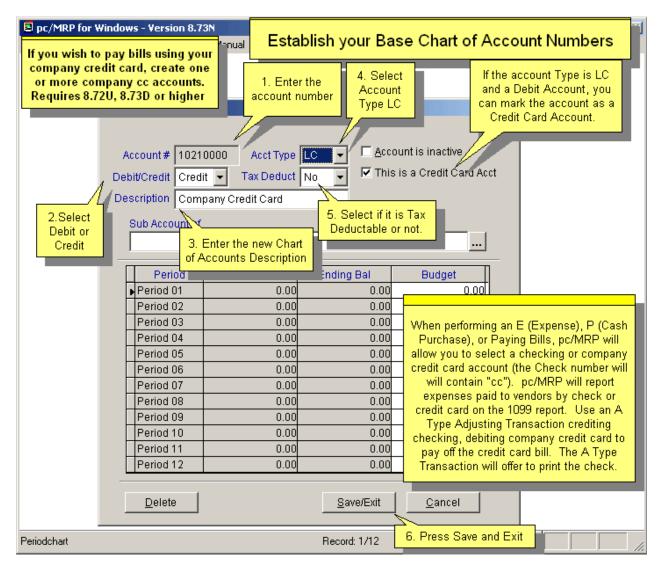
**Note**: If <u>upgrading from version **8.47** or lower</u>, please re-visit the checking accounts and make sure the Checking Account checkbox is checked for all your checking accounts.

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**



# 14.3.1.4 Entering a sub chart of account number

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. The new sub-account will automatically be the same Account Type and Debit/Credit Type as its parent account.

Division in the	C:\V851 (Us Esta	ablish Catego	ory Sub Chart	ofAccoun	t Numbers	
	Chart of Accounts	2. E			ber. Since this is a ur characters are 000	
	Account# 6251 Debit/Credit Debit Description Elect Sub Account of 62500000	Tax Deduct	EN Acco	Enter the new unt Description.	account the Debit/Cred Deduct F automatical	s is a sub e Acct Type, lit and Tax Fields will ly match the account.
	Period	Starting Bal	Ending Bal	Budget		
	Period 01					
	Period 02					
	Period 03					
	Period 04				<ol> <li>Scroll and sel</li> </ol>	
	Period 05				Parent Chart of Acc	
	Period 06				this case we selcte	
	Period 07				Account Number 6	
	Period 08				The Debit/Credit, Type and Tax De	
	Period 09				automatically be	
	Period 10				match the parent	
	Period 11					
account account transacti ChartEdit	.scx TxtFullid.Refresh() chkaccount(RIGHT(ALLT	hild account of a paren history of any	<u>S</u> ave/Exit	Cancel	nd Exit	
CHRACEO	ancprg		Record:	1/13	Exclusive	

Dec/MRP for Winde Modules Tools Optic	Establish Categ	ory Su	ıb (	Chart of Accou	nt Numbers	_ 🗆 🗵
Parent Acct Number	Command Line	The Fu is used	ullid I to u	field is used by the pr	cord in the ChartAcc.dbt rogram. The Displayacc ccounts in an indented fo	field prmat.
Converting	Work Area Reco	Jra #		rapie	Index File	
Expacent	Descript	Acctype	Dc	Fullid	Displayacc	
62500000 UTILITIE	S	EN	D	62500000	62500000	
62510000 Electricit	y	EN	D	62500000:62510000	62510000	<b>.</b>
Child Acct Nu	Enter the Command Sc browse fields expacen				w Command <u>H</u> istory	an go
	<u>B</u> rowse <u>Eile</u>	Explorer		Exect	ute <u>C</u> ancel	
Chartacc (c:\pcmrpw905\cha	rtacc.dbf)			Record: 1/86	Record Unlocked	

#### 14.3.1.5 Register your default account numbers.

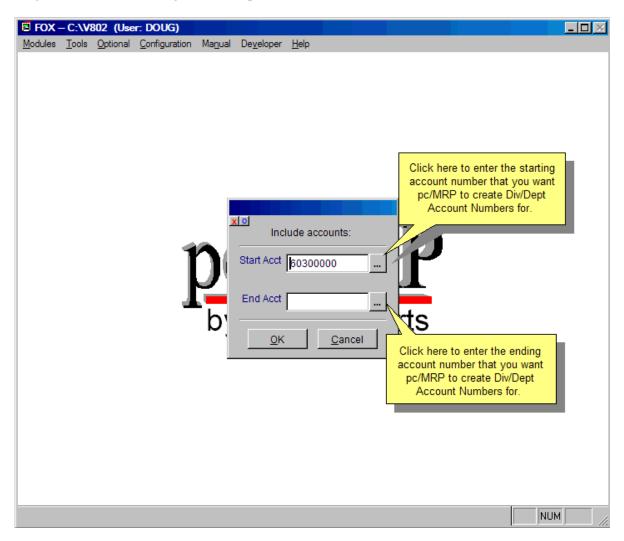
Once your base chart of account numbers are established, you must register your default account numbers with pc/MRP. This will allow pc/MRP to automatically pull up the correct accounts to debit and credit when you are making an entry into the general ledger. For example, pc/MRP needs to automatically 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.

John	LL WINDOW Select r		-		>
	Acct Description		Acct Number	-	
Accts	Pay	0000	20100000		
Accts	Rec	0000	11100000		
Busin		0000	30100000	<u></u>	
CostC	)fGoodsSold	0000	40150000		
FicaLi	ability	0000	22110000	Enter your default chart of	
Freigh	ntExpense	0000	41400000	account number for every type of	
	ntincome	0000	30150000	account listed.	
FwtLia	*	0000	22100000 L		
Gross	WageExpense	0000	50100000		
Invent	*	0000	12100000		
Opera	itingExpense	0000	63500000		
Overh	eadExpense	0000	50150000		
Prima	iryChkAct	0000	10200000		
Purch	aseDiscount	0000	41900000		
Purch	ases	0000	41100000		
	iscount	0000	30850000		
Sales	TaxLiability	0000	21100000		
SdiLia	*	0000	22130000		
Ssect	lediPayrollExpense	0000	51100000		
SwtLi	ability	0000	22140000		
]					

# 14.3.1.6 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.

# 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) -(depreciation, allowance for bad accounts)	1000	Ax	N	D C
LIABILITY	+(accounts pay, loans pay, taxes payable) -(repayment of loan)	2000	Lx	Ν	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	lses		
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)	3			
LC Ac	Accounts are categorized as follows: ccounts will be totaled under Current Liabil ccounts will be totaled under Long Term Liak				
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:

22100000       PAYROLL TAX F.W.T.         22110000       PAYROLL TAX F.I.C.A         22120000       PAYROLL TAX F.U.T.A         22130000       PAYROLL TAX S.D.I.         22140000       PAYROLL TAX S.W.T.         22150000       PAYROLL TAX S.U.I.         22160000       PAYROLL TAX E.T.T.         29100000       COMPANY TAXES         90100000       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 Level Base Top Chart of Account Number Has no parent account The full account number must be unique Div/Dept suffix of any 4 numbers. If **RESTRICTCHART.FLG** file exists in pcmrpw directory, suffix must = 0000

2<sup>nd</sup> through 5<sup>th</sup> Level Sub Chart of Account Numbers
Has a top level parent account
The full account number must be unique
Div/Dept Sub Acct must have a suffix that matches the parent suffix unless the top parent suffix = 0000
Must be same account type a parent
Parent & child debit/credit accounts do not have to match

Example:

Edit a Chart of Account

Edit the Chart of Account Number Field Must be done with Option 72 Edit the Chart of Account Description Field OK Edit the Account Type Field Must have no existing transactions Must have no existing sub accounts Must have no twin div/dept accounts Edit the Debit/Credit Field Must have no existing transactions Must have no existing sub accounts Must have no twin div/dept accounts Edit the Full ID Field Must have no existing transactions Must have no existing sub accounts Must have no twin div/dept accounts

Delete a Top Base Chart of Account Must have no transaction history Must have no sub accounts (sub accounts must be deleted first) Must have no Div/Dept Accounts (Div/Dept accounts must be deleted first)

Delete a Base Sub Chart of Account Must have no transaction history Must have no sub accounts (sub accounts must be deleted first) Must have no Div/Dept Accounts (Div/Dept accounts must be deleted first)

Delete a Top Div/Dept Chart of Account Must have no transaction history Must have no sub accounts (sub accounts must be deleted first)

Delete a Div/Dept Chart of Accounts Must have no transaction history Must have no sub accounts (sub accounts must be deleted first)

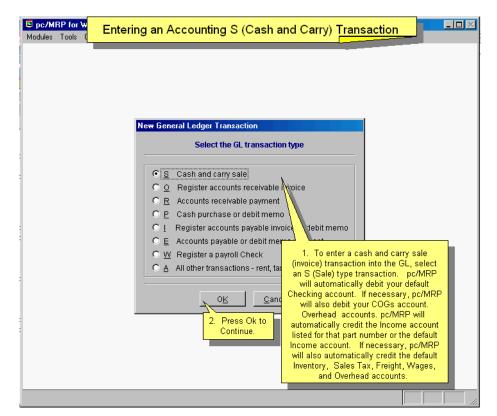
#### 14.3.4 Index (see 15.14.3)

# 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.

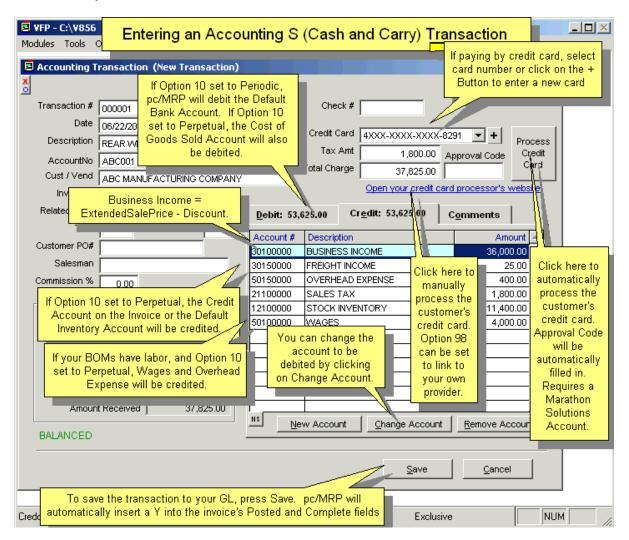
Enter the first several characters you wish to begin scrolling at. When the desired record is located, press enter to preview the record. If it is the wrong record, press the escape key to continue scrolling. When you find the correct record press the enter key or click on the upper left button of the 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

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"

# 14.4.2.2 Register accounts receivable invoice (O):

E FOX C:\ Modules Toc	Entering an Accounting	g O (Register Invoice) Trans	action
Accounting	Transaction (New Transaction)         000001       Type         01/04/2009       Entered By         DOUG       DOUG         REAR WHEEL ASSY       ABC001         ABC MANUFACTURING COMPANY	If Option 10 is set to Periodic, pc/MRF will debit the Default AR Account for the total amount of the sale. If Option 10 is set to Perpetual, the Cost of Goods Sold Account will also be debited for the component + inside labor + outside labor + overhead costs	pc/MRP gets the Inventory, COGs, Labor and Overhead dollar amounts from the inventory records using the average or standard costs
Extended Extended Texn Tax f Freight f Total with Ta If Option 10 is Account or Inventory A compone If your BOM set to Perper Overhead Ex accounts shu your	d Sale Price 40,000.00 ns Discount -4,000.00 or Line Item 1,800.00 or Line Item 25.00 ax & Freight 37 s set to Perpetual, the Credit the Invoice or the Default account will be credited for ent + outside labor cost s have labor, and Option 10 is tual, Wages (inside labor) and (pense will be credited. These ould be wash accounts and not actual wages account. bu can change the accounts to be de- credit by clicking on the Account Bio	Description       0000     BUSINESS INCOME       0000     STOCK INVENTORY       0000     SALES TAX       0000     FREIGHT INCOME       0000     WAGES       0000     OVERHEAD EXPENSE       New Account     Change Account       Rer	Amount 36,000.00 11,400.00 1,800.00 4,000.00 4,000.00 400.00 We Account Cancel
Creddetail (c:\v846'	Vtrandetan	into the invoice's Posted field.	ocked

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)

## If Multi Divisions is On (Option 11)

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 Acco	unting R (Receive Payment) Transaction
Accounting T	ransaction (New Transaction)	If paying by credit card, select card number or click on the +
X		Button to enter a new card
Transaction #	Type R	Check #
Date	06/22/2011 Entered By DOUG	Credit Card 4xxx, xxxx, 8291 +
Description	REAR WHEEL ASSY	Tox Aut
AccountNo	ABC001	Approval Code Cloud
Cust / Vend	ABC MANUFACTURING COMPANY	credit default AR Open your credit card processor's website
Invoice #	000002 Sale # 000102	open your creat card processor's webste
Related Doc#		Debit: 37,825.00 Cr <u>e</u> dit: 37,825.00 Comments
Task	Sub-Task	Account # Description Amount
Customer PO#		10200000 BANK CHECKING ACCOUN
Salesman Commission %	pc/MRP will debit the Default Bank Account.	Accept or edit the Amount Received, Debit Process t
	Sale Filos	and Credit Amounts customer's credit card.
	s Discount -4,000.00 or Line Item 1,800.00	You can change the Option 98 Approval Code
Freight fo	or Line Item 25.00	account to be can be set will be
Total with Ta Amount P	×&Freight 37,825.00 vaid to Date 0.00	debited by clicking to link to filled in.
	mount Due 37,825.00	nrovider Requires a
Amoun	t Received 37,825.00	Marathon Solutions
BALANCED		NS         New Account         Change Account         Remove Account         Account.
	receiving a partial payment, be eived, Bank, and AR = Partial	
To save the tra	ansaction to your GL, press S	ave. pc/MRP will automatically
	Y into the invoice's Complete fi	

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)

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 Tran		P (Cash Purch		
Transaction # Date Description AccountNo Cust / Vend	D000006     Type       11/05/2009     Entered By       BEARING SS       BBC001       BBC MANUFACTURING CO				Enter the vendor's woice Number. Comments pc/MRP Versions 8.32A and higher.
Tern Tax f Freight f Total with Ta Amount f	ns Discount or Line Item or Line Item x & Freight Paid to Date Amount Due	50.00 -5.00 2.25 10.00 57.25 57.25 57.25 57.25 	# Description STOCK INVENTORY	If Option 10 Default Inve debited . Default Purc will be debite inventory iten	Amount 47.25 10.00 is set to Perpetual, the entory Account will be If set to Periodic, the hase Expense Account ed. If the PO is for non ns the Default Operating ccount will be debited.
			hange Account another account.		
auto	. To save the transact omatically insert the an eceiver's Complete fiel	nount paid into th	ie receiver and a Y int	o the	ed

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 option 10 is set to Periodic debit the Default Purchase Expense 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)

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"

# 14.4.3.2 Register an Accounts Payable Invoice (I):

Modules Tool	ccounting I (Re	gister/Post Re	ceiver) Transaction	
Accounting Transaction (New Tr	ansaction)			×
Transaction # 000001 Ty Date 11/19/2009 Entered Description BEARING SS AccountNo BEC001 Cust / Vend 1. Enter the vendo Check # into the receiv	r's Invoice Number. It er when the transactio	will be inserted	Sub-Task 389 pc/MRP will automatically cre default Accounts Payable Ac	
Receiver # 000001 FO # 0 Extended Sale Price Terms Discount Tax for Line Item Freight for Line Item Total with Tax & Freight In this test example ExtSalePrice=\$50.00 SalesTax =8.25% Discount=10% Freight=\$10.00	000001 50.00 -5.00 3.71 10.00 58.71 Debit: 58.7 12100000 41400000 58.71 pc/MRF automatica the Default Account	Description STOCK INVENTORY FREIGHT Will ally debit treight unt. If receiving Debits acct	Comments Amount 48.71 48.71 10.00 Inventory items: Diset to Perpetual, debits the acct in the default Inventory Acct in that ord to Periodic, debits the acct in the or default Purchase Exp Acct in that Non Inventory items: t in the receiver, partmast, or the D Exp Account in that order.	ler. receiver, at order.
	ve the transaction to yo matically insert a Y int			

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)

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):

Entering an Accounting E (Expense) Transaction						
Accounting Transaction (New Transaction)						
Transaction # 000002 Type Related Doc# Date 11/19/2009 Entered By DOUG Task Sub-Task Description BEARING SS pc/MRP will debit the AP AccountNo BBC001 BBC001 Comments pc/MRP Cust / Vend BBC MANUFACTURING COMPANY						
Receiver # 000001 PO # 000001 Debit: 58.71 Credit: 58.71 Comments						
Extended Sale Price       50.00         Terms Discount       -5.00         Tax for Line Item       3.71         Freight for Line Item       10.00         Total with Tax & Freight       58.71         Amount Paid to Date       0.00         Amount Due       58.71         Amount Paid       58.71         Amount Paid       58.71						
BALANCED  New Account Change Account Remove Account  You can change the accounts to be debited or  arodit by clicking on the Account Puttence  Save Cancel						
Credit by clicking on the Account Buttons.      Cancel      Cancel      Cancel      Cancel      Complete transaction, press Save. pc/MRP will automatically     insert the amount paid into the receiver and a Y into the receiver's     Complete field if the amount paid = the amount due.      Debdetail						

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 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. 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.

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) 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"

# 14.4.4. Other Transactions

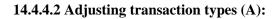
# 14.4.1 Payroll (W):

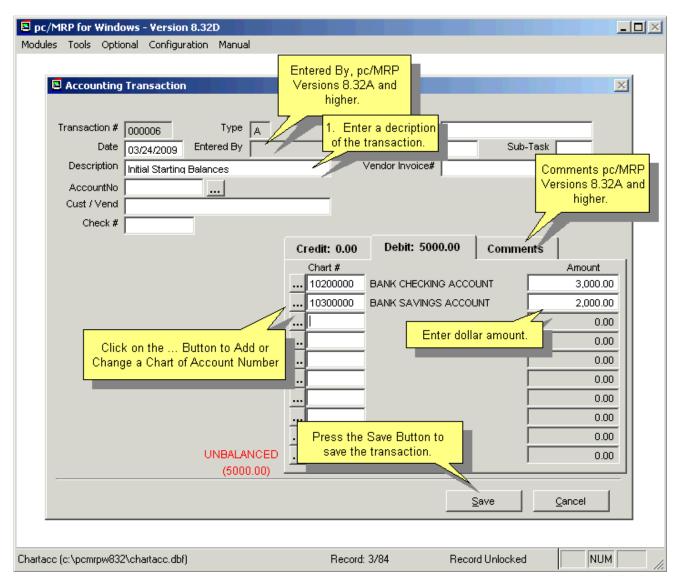
SUPP - C:\U846 (User: DOUG) Addules Tools Optional Configuration	Entering Accounting Transactions W Register a payroll check
Accounting Tr     1. Enter a     decription of the     transaction.     Date     Description     Cust / Vend     Check #	to beautifie belauti wage
	Account #       Description       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" (version **8.90A** and higher).





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

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 not 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'
                    Do Case
                    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 account
                            DO settmplt WITH 'AcctsRec',mdacc1
                            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. The Perpetual Inventory Method requires the inventory to be adjusted with each sale and purchasing transaction. 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' (Revenue)

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) ! CREDIT: FICA LIABILITY (SSEC+MEDI) 22110000 CREDIT: FWT LIABILITY 22100000 FICA LIABILITY (SSEC + MEDI) 22110000 SWT LIABILITY 22140000 SDI LIABILITY 22130000 CHECKING ACCT 10200000 (NET PAY)	51100000 31.22	
PAYING FEDERAL GOVERNMENT PAYROLL TAX 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	22140000	
PAYING STATE PAYROLL TAXES DEBIT : EXPENSES PAYROLL TAXES 51100000 CREDIT : ACCUM LIAB SUI 22150000 ETT 2216000	00	

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 10200000
```

#### 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 Account 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:

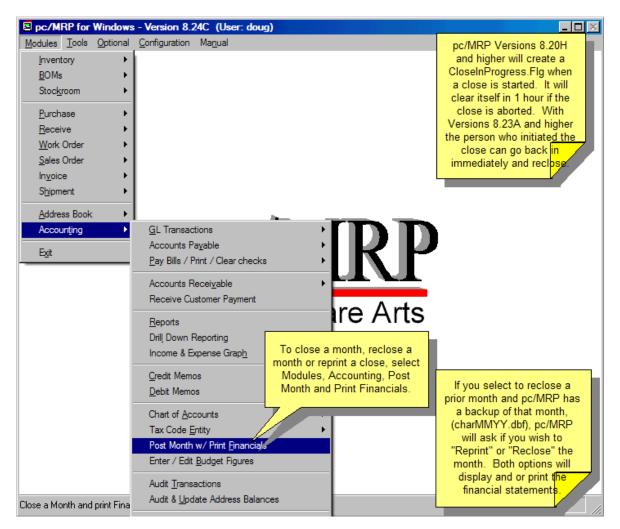
1. Board decides to give out dividends, make an Adjusting Entry: Debit Dividend / Credit Provision for Dividends

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)

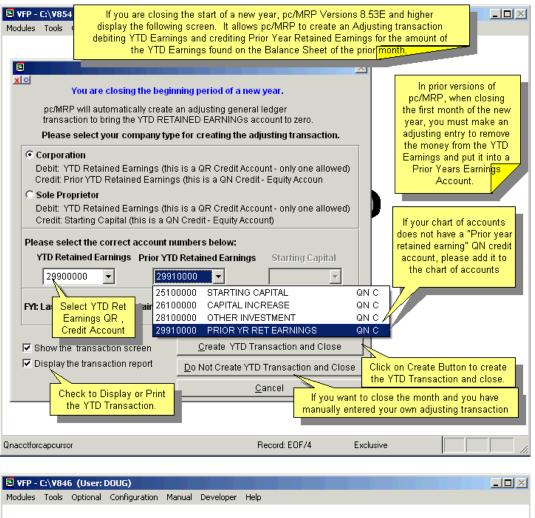


Post Month with Print Financials automatically retrieves each account's starting balance for that month and all of the financial transactions recorded during that month. pc/MRP then calculates the new balances for each account and will prompt users to choose from a variety of financial reports to be 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



xI⊡ Eiscal Year Start Closing a period i Calander Month Includes account From: 0	n Accounting : January, 2010 ing transactions dated
	Press OK to continue. If the month has not had a previous close and option 5 in the "Configuration", "Settings and Utilities Menu" has been set to "Allow date change during month close", you can adjust the ending date of the period you are closing. This allows users to run 4-4-5 accounting periods and or adjust the close to the manufacturing schedule. Once a month has been closed, pc/MRP will not
Closedat (c:\v846\closedat.dbf)	allow you to adjust the dates of the close regardless of how option 5 is set.  Record: 300/624 Record Unlocked

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.

pc/MRP will inform you that it will initialize the starting balances for the month following your close. 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:

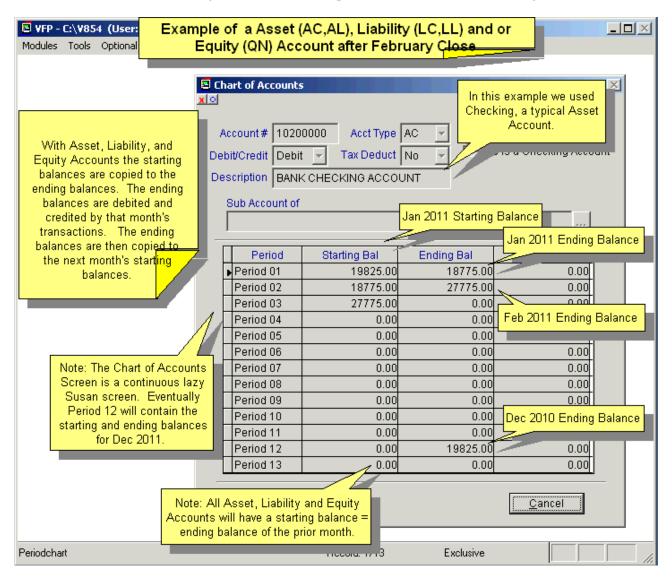
#### Revenue Accounts (RN, RO) and Expense Accounts (EN, EO, EL, ET, EG)

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.

Image: WFP - C:\W854       Example of an Expense (EN,EO,EL,ET,EG), and or a Revenue (RN,RO) Account after February Close										
	hart of Accounts			s example we used , a typical Expense	×					
	Account # 6150	0000 Acct Type	EN 🚽	Account.						
Accounts the starting	ebit/Credit Debit		Yes Y							
balances are copied to the	escription REN	Г								
ending balances. The ending	Sub Account of									
balances are debited and			Jan 2011 Starting	Balance						
credited by that month's	J			Jan 2011 Ending	Balance					
transactions. \$0.00 is then copied to the next months.	Period	Starting Bal 1	Ending Bal		Dalance					
starting balances.	Period 01	0.00	1000.00	0.00						
	Period 02	0.00	1000.00	0.00						
	Period 03	0.00	0.00							
1	Period 04	0.00	0.00	Feb 2011 Ending B	Balance 📄					
	Period 05	0.00	0.00							
<u>/</u> _	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 12 will contain the	Period 09	0.00	0.00	0.00						
starting and ending balances	Period 10	0.00	0.00	Dec 2010 Ending	Balance 🗧					
for Dec 2011.	Period 11	0.00	0.00	2						
	Period 12	0.00	1000.00	0.00						
	Period 13	0.00	0.00	0.00						
Note: All Expense and Revenue Accounts will have a starting balance of \$0.00 as Expense and Revenue must be reported by Month.										
Periodchart			Exclusive							

# 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 (Us Modules Tools Optio		ccount after Febr	uary Close	
Chart of Accounts				•
Account# 2990 Debit/Credit Credit Description YTD F The profit Dec was moved to the startin of the next month, Period 01 Period 02 Period 03 Period 04	It Tax Deduct N RETAINED EARNINGS as g bal Jan. Stating Bal 4742.00 8950.00 17950.00	When Jan moved the s ending bals YTD adju cleared out The Feb Ending Ben 0.00 8950.00 0.00	uary was closed it tarting balance to the ance. However the usting transaction the ending balance. endigng balance for contains the starting balance for Feb	
The Febuary Star Balance contains e balance of January it was wiped out) pl profits from Janu Period 12 Period 13	ending (before in Feb us the startin	g balance in Mar. 🛛 <sup>in De</sup>	0.00 0.00 tarting bal (\$0.00) c is transfered to ending bal in Dec 0.00 0.00 0.00	To manually restore YTD Retained Earnings because it was incorrectly adjusted, insert the prior months YTD Retained Earnings amount in the prior month's SBAL and EBAL and into the SBAL of the next month. Insert \$0.00 into the EBAL of the next month to be closed. Then re-close the next month.
<ol> <li>The starting balance</li> <li>The starting balance the month plus the YTE</li> </ol>	of or the YTD Account is the of the NEXT month is pop of the NEXT month is pop Dending balance for the m	nings Chart of Account is ha ansferred to the ending bala pulated with the total revenue nonth bited or credited by any adju	ance of the month being e for the month minus th	he total expenses for

#### 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.

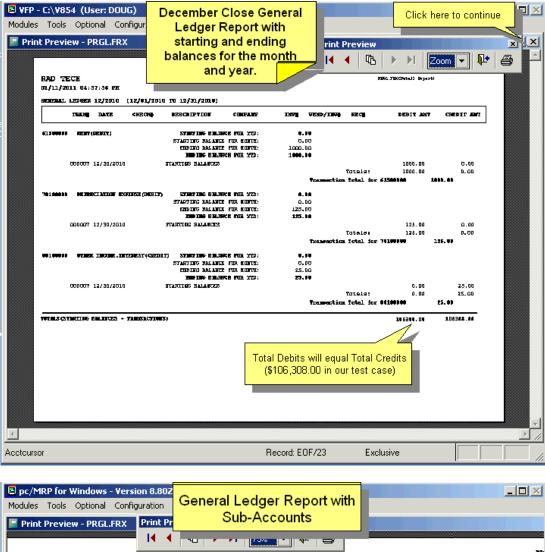
# The YTD Trial Balance Report

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.

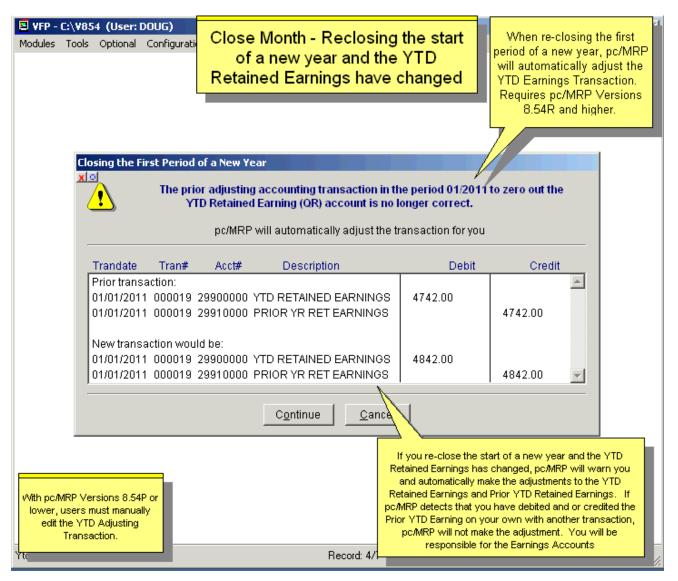


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MERAL LEDGER 09/2014 (09/01/2014 10 09/30/2014) TRABE DATE CHECKE DESCRIPTION CUMPANY	INV# VE		DEBIT AKT	CREDIT
	IND# #I	•		
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	T1	manuscrion Total for	30100000 <b>200</b>	00.0D
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		Totals:	0.00	20.
	Transaction	a Total Cor SD100DD0	:3D1200DD :	20.0D
If you wanted to double check the ending balance for a parent account such as 30100000 you would start with the Starting Balance, \$6000.00, Add the \$20,000.00 that was credit into the parent account itself	•.00 0.00 17910.00 17910.00 3 D00001 NA	NOUZ	2900.00	a.
30100000, Add the \$40,000.00 that was credited into the sub-acct 3010000:30110000, add the \$20.00 that was credited into the sub-acct	5 D00001 ML	NODE	15000.00	u. 0.
30100000:30120000 and totals the ending balance of \$66,020.00.	3/12	Exclusive		

### **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 (charxxxx.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.

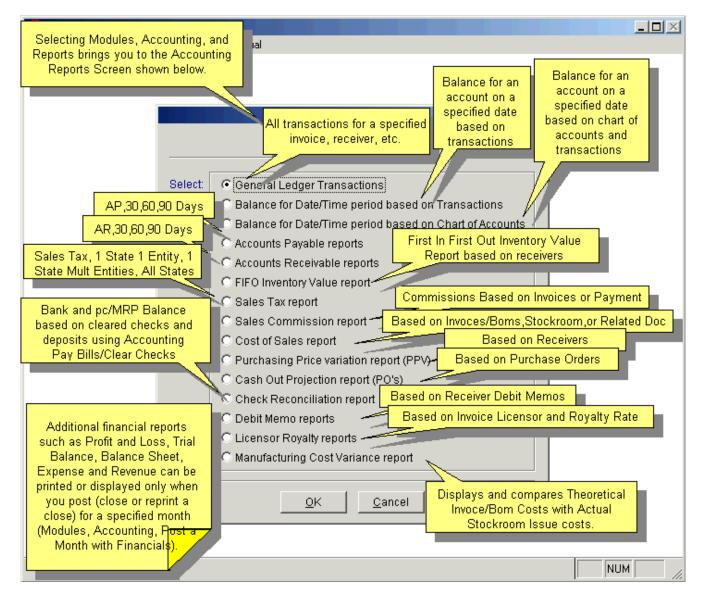
pc/MRP will ask if you wish to retain the current budget figures or the budget figures from the last close (this prompt only occurs if there were any changes to the budget figures). pc/MRP will then go through its normal close procedure as described above using the cursor instead of the chart of accounts 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

Modules	Tools Optic	ral Ledger Transactions sides of the tr			s).			1 <u>×</u>
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				10200000	BANK	10000.00	0.00	
				12100000	STOCH INVENTORY	6000.00	0.00	
				25100000	STARTING CAPITAL	0.00	21000.00	
L	D COMPS		A	60100000	TAGIIS	<b>500.00</b>	0.00	
				ZZ 100000	PAYROLL TAX RAY	0.00	<i>5</i> 0.00	
				10200000	BANK CHECK	a.oa	480.00	
	STARTING BALANC		A	11100000	ACCTS RECEIVABLE	15000.00	a.oa	
				30100000	BUSINESS INCOME	a.oa	15000.00	
				10200000	BANK CHECHING	12000.00	a.oa	
				11100000	ACC75 RECEIVABLE	a.oa	12000.00	
				61500000	RENT	1000.00	0.00	
				10200000	BANK CHECHING	0.00	1000.00	
				60100000	ADVERTI SING	50.00	a.oa	
				10200000	BANK CHECHING	0.00	50.00	
			1	61000000	INSURANCE	700.00	a.oa	
	In thi	s example total debits =		10200000	BANK CHECHING	0.00	700.00	
		al credits (\$51,908.00)		61400000	OFFICE EXPENSE	6.00	0.00	
	101	ar credits (#51,800.00)		10100000	CASE ON HAND	0.00	8.00	
			1	10200000	BANK CHECHING	25.00	0.00	
			-	B0100D00	OTHER INCOME	a.oa	25.00	
								۰ſ
andard								-

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

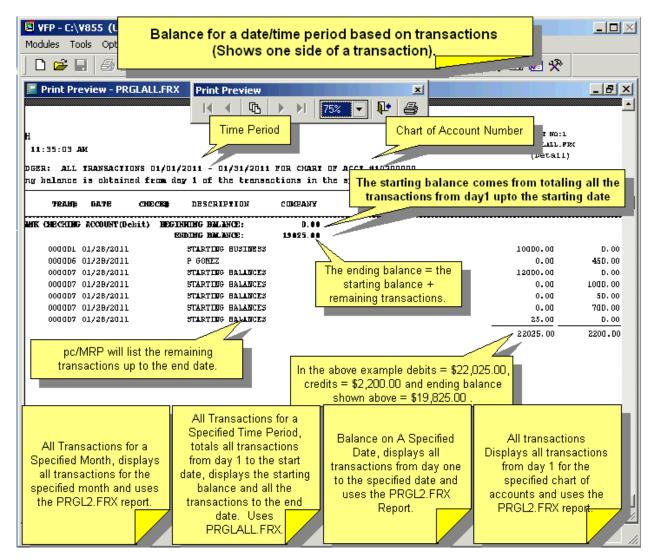
Include all transactions for a:

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 p counts (Shows one		tion).	- I ×
Print Preview - CURBAL.FRX	Print Preview	×		_ <b>B</b> ×
H 01:22:46 FM DGER ALL TRANSACTIONS FOR CHART ng balance is derived from the ]	OF ACCI #10200000 BETWEED	comes fi of acco res © 11/01/20 transact	ting balance rom the chart unts plus the st of the tion up to the ting date.	PLOR NO:1 CULELI. FOX
TRANH DATE CHECKH DESCRI	EPTION CHAPANY	IRAH AFRD\IRA#	REC# .BII	ANI CREDIT ANT
A0006         bit         comment           00060         bit         bit         bit           00007         bit         bit         bit	G BUSINESS	isactions	1 000 1 200 The ending	0.00 25.00 00.00 0.00 0.00 450.00 0.00 0.00 0.00 1000.00 0.00 50.00 0.00 740.00 25.00 0.00
This report is only correct for asset, liability, and equity accounts and will not be correct for expense and revenue accounts.	pc/MRP Versions 8.00 and higher can retrieve the starting value for any date that has been close in the past. With pc/MR versions 7.94 and lower this report is valid for starting dates begining i the past 12 months.	y ad P	transactions.	×
itandard				

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

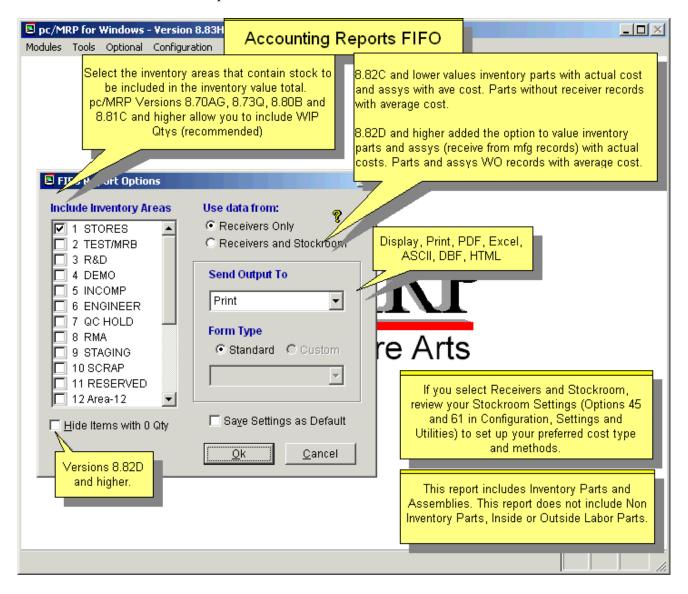
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Sorted and Grouped by Customer Account Number and Invoice	0-	Due 29	Due Ba	<u> </u>	Bal Due > 90 Days	Total Due	
If you want to match the Accounts Receivable Balance, check Posted Transactions Only. If unchecked, nvoices that accounting has not posted yet will be included.	With pc/MRP \ 8.50P, 852C an creating a file ArCompleteOnly display only ir 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 Sumi promp new index index pos stand	oc/MRP V nd higher, mary Rep t you to c dependent of on the re sibility that ard invoice uld be corr	, an AR ort will reate a t invoice emote at the e in <mark>¢ex ∕</mark>		
Standard							

You can select all open, all closed and aging reports of 30, 60 and 90 days.

### 14.7.7 FIFO Inventory Value Report

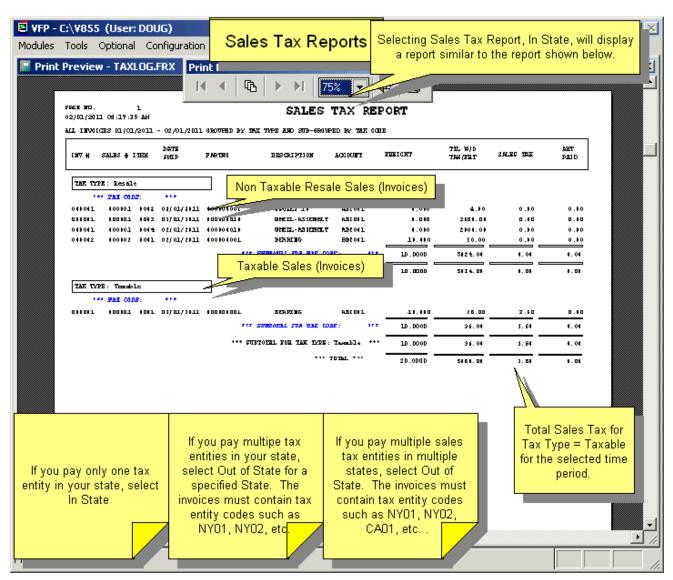
Select the inventory areas that contain stock to be included into the inventory value total.

It is recommended to include WIP quantities.



Print Preview - FIFO.FRX availa	Recvd able on Is 8.82D higher	Accounting Reports FIFO Receivers Only	Assemblies Cost. This Inventory Par pc/MRP Ver 8.81C and	t includes Inventory Parts and 5. Assemblies are valued at Ave 5. report does not include Non ts, Inside or Outside Labor Part: sions 8.70AG, 8.73Q, 8.80B an higher allow you to include WIP Ditys (recommended)
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With PN 00000001 there are 150 available. The last receiver, 000002 was for 100 @ \$1.00 ea. The prior receiver, 000001, was for 100 @ \$2.00 ea. Since there are only 150 currently available it only used 50 of the older receiver.	available. 100 @ current receive remainir	000000002 there are 200 There is one receiver for \$1.00 Since there are tly more parts than the rs can account for, the ng 100 are valued at the e cost of \$2.00 ea.	With Assy currently av	000000010 there are 5 railable and the average ist is \$290.00.
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#### 14.7.8 Sales Tax Report



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.

	ons 8.55B and higher v lace of several screen		All Salesmen, Single Salesman	Display, Print, PDF, Excel, ASCII, DBF, HTML
Report is to be based on Invoices issued during the p	2.1	nvoices Issue	yment during the period ed during the period ce line items were paid Display	
Date Range         Month         Enter Month         Enter Year         2011         FYI: Period 02/11 starts from		111	Report Type  Standard C Custom  CCOMMISS.FRX  Save Settings as Defau	
Option 1 uses 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. Warning, this option uses the salesman from line item 1 on the invoice and the commission % from the last line item on the 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	<u>Ok</u> <u>Cancel</u> pasis the commissions on the da fields in the invoice. This option v and subtract mixed tax rates on sions will only be reported when e paid in full. Versions 8.70AB, will include indep credit memos during the specified period. The ref the salesman if you select C voice when creating the indep C	will correctly an invoice. invoice line 8.72Q and created indep Credit 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.

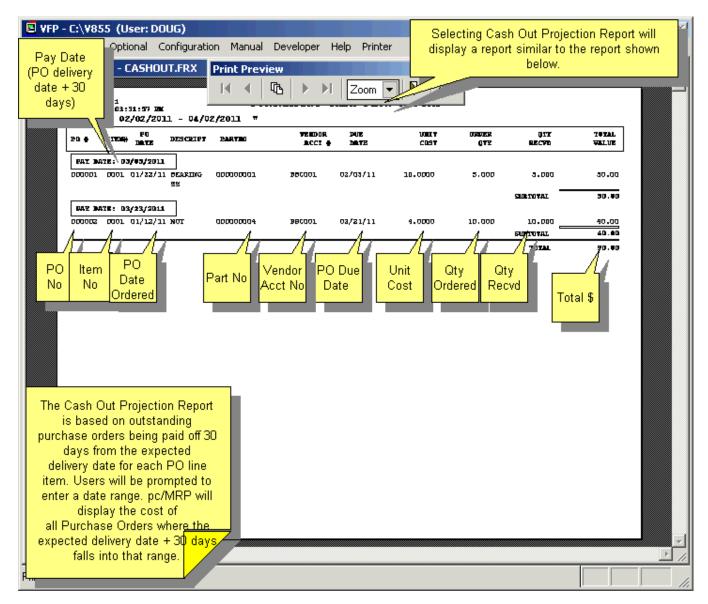
This option bases the commissions on the accounting's R, Revenue and S, Cash Sale transactions. This option will not correctly calculate and subtract the tax if the invoice line items have different tax rates, and does not handle credit memos correctly.

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.

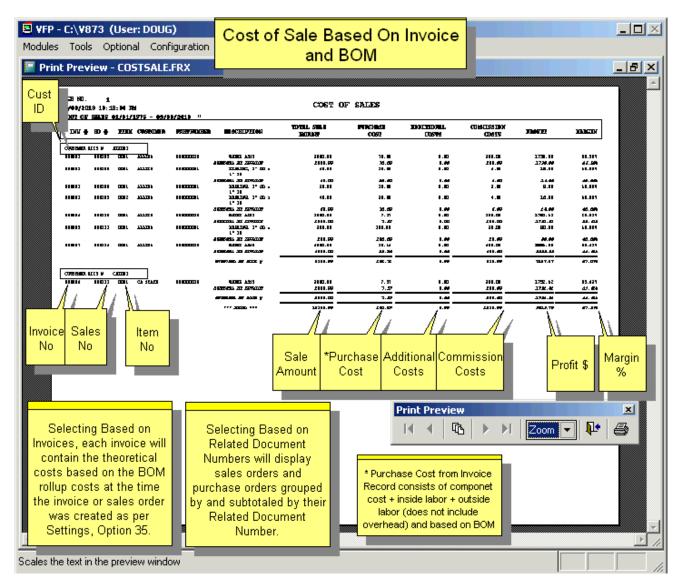
# 14.7.11 Cost of Sales Report

Cost of Sales Report based on

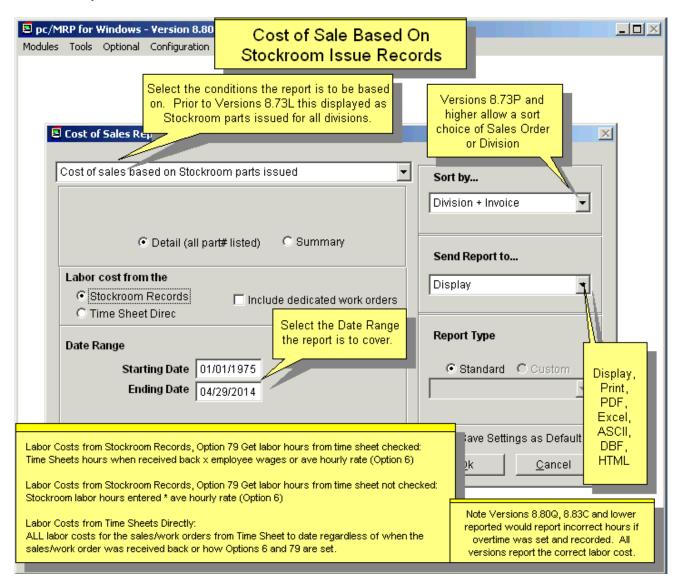
- 1. Invoices and Related BOMs (Theoretical Cost),
- 2. Stockroom and Employee Time Sheet (Actual Cost), and or
- 3. Related Document Numbers (Purchase Orders contain the sales order number its Related Document Number Field).

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.



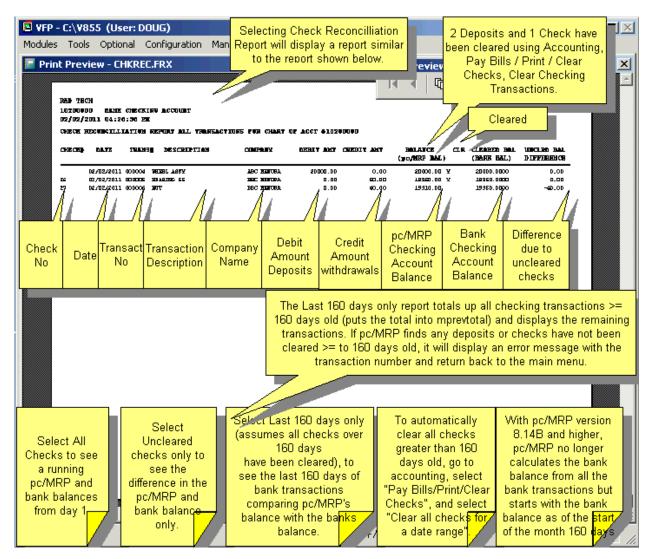
You can sort by Sales Order or Division.



# 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.

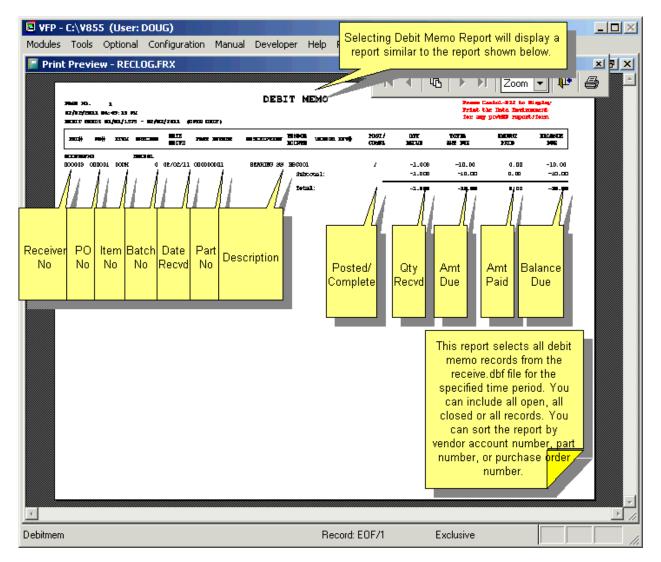
The Last 160 days only report first totals up all checking transactions greater than or equal to 160 days old. If pc/MRP finds any deposits or checks have not been cleared over or equal to 160 days old, it will display an error message with the transaction number and return back to the main menu. If 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".

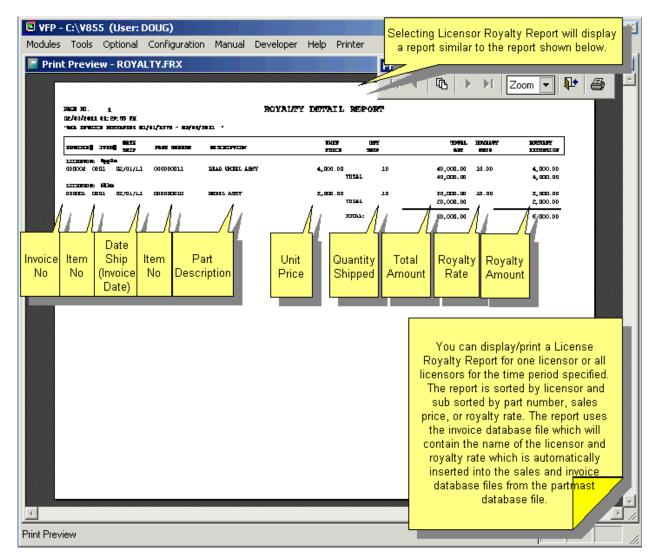
pc/MRP does not calculate the bank balance from all the bank transactions but starts with the bank balance as of the start of the month 160 days back.

#### 14.7.14 Debit Memo Reports

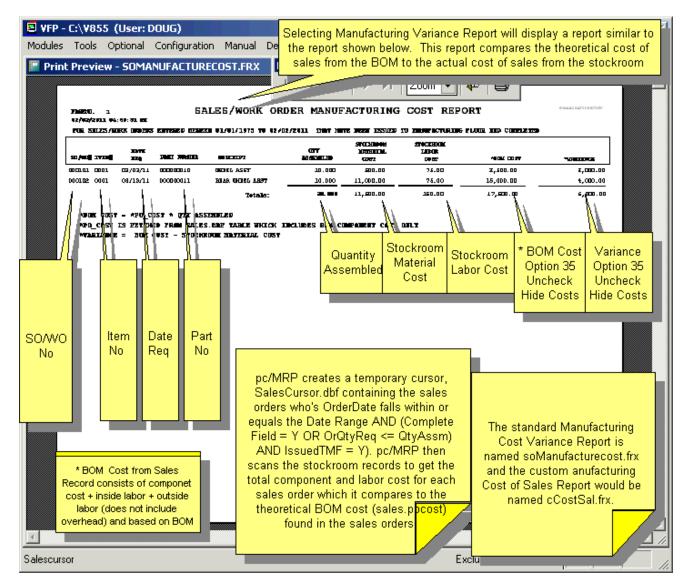


This report selects all debit memo records from the receive.dbf file for the specified time period. You can include all open, all closed or all records. You can sort the report by vendor account number, part number, or purchase order number.

#### 14.7.15 Licensor Royalty Reports



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.



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. <u>Accounting's Audit Option will automatically locate these transactions and allow you to correct them</u>. 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 F		
Purchase       Receive       Work Order       Sales Order       Invoice       Shipment		
Accounting	GL Transactions  Accounts Payable Batch Post Receivers Pay Bills / Print / Clear checks  Accounts Receivable Batch Post Invoices Receive Customer Payment Reports Drill Down Reporting Income & Expense Graph Credit Memos Debit Memos Debit Memos Chart of Accounts Tax Code Entity Post Month w/ Print Einancials Enter / Edit Budget Figures	New AP Voucher Edit / Vir Voucher Print Print Denter a new Accounts Payable Voucher, Print Print Print Print Payable, and New AP Voucher

Note: For versions 8.84 and older, see the 8.80 Manual or http://www.pcmrp.com/mrp101/apvoucherstart.htm.

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 Vou pc/MRP Version 8.8		
Creating a New Record			Document Currency
PO # NONE	Last Change / / Date Received 07/08/2014		BASE CURRENCY
Vendor Information	Shipping Inform	nation	Item Information
		Vendor Invoice # 12347 croll Vendor Contact JOE St	
Street 111 SOUT		Vendor Phone 980-11 Vendor Fax 980-11 Vendor eMail JSM@	Invoice Number
City RICHVIEW State / Zip CA	88888	Terms NET 30 Related Doc #	
Country USA			
ttem Part Number	Rev Description Part Lookup	Manufa	cturer
Model Number 1. Press the Part Look Col the part number will aut number, vendor's addres be deb	Seriel Coty F up Button. Selecting omatically insert part as, and the account to ited	1.000 Displayed Currency B sc % Freight Lot 0.00 0.00 pc/MRP will	rice Tax % 1000.000000 0.0000 ASE CURRENCY   cation Area 1 STORES NCNR Item
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.

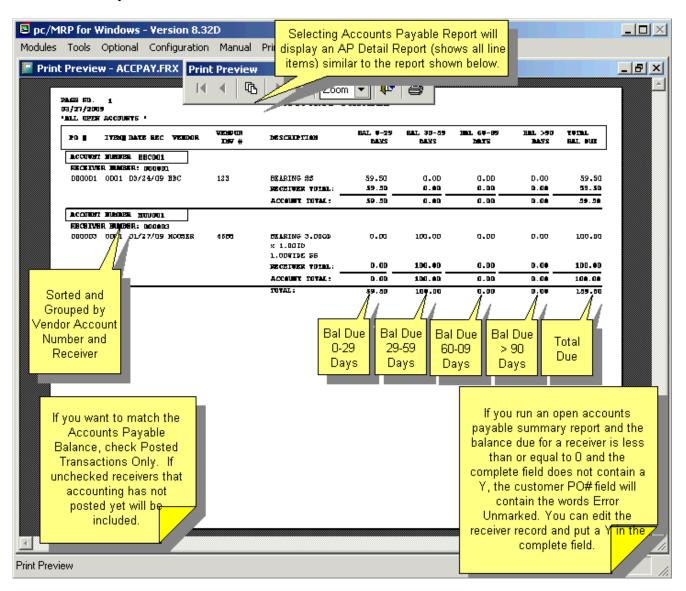
#### 14.8.2 Edit/View an Account Payables Voucher

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

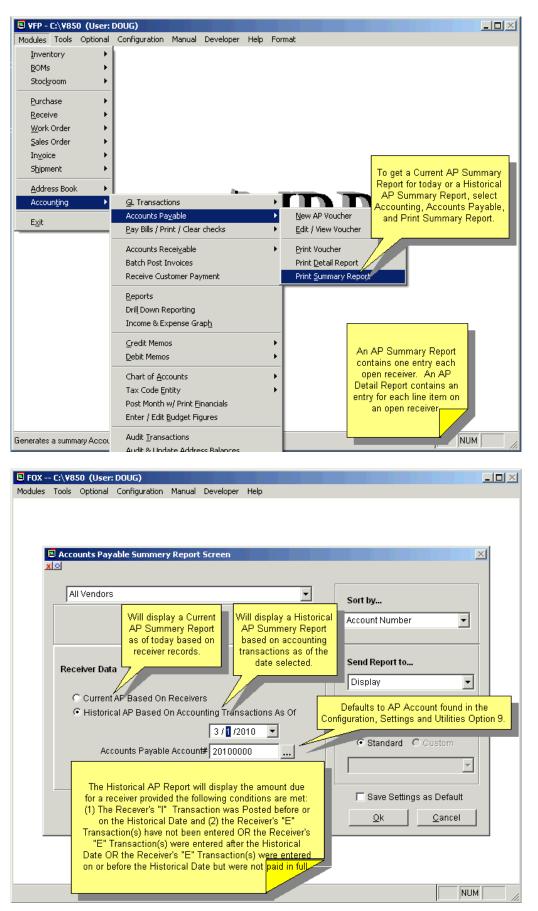
Selecting the accounts payable report option will provide a consolidated printout of all accounts or a single account subtotaled on receiver and account numbers. The balance due amounts are totaled in the 0-29, 30-59, 60-90, and Over 90 days columns.



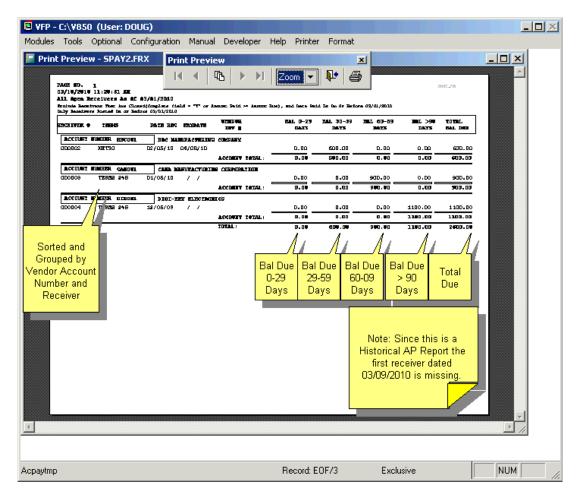
Additional accounts payable reports can be obtained by using the Receiving Report Module. The Receiving Report Module provides a variety of sorts and conditions for open and closed receivers. An open receiver is one that has not been paid and a closed receiver is one that has been paid (the **Complete** 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.

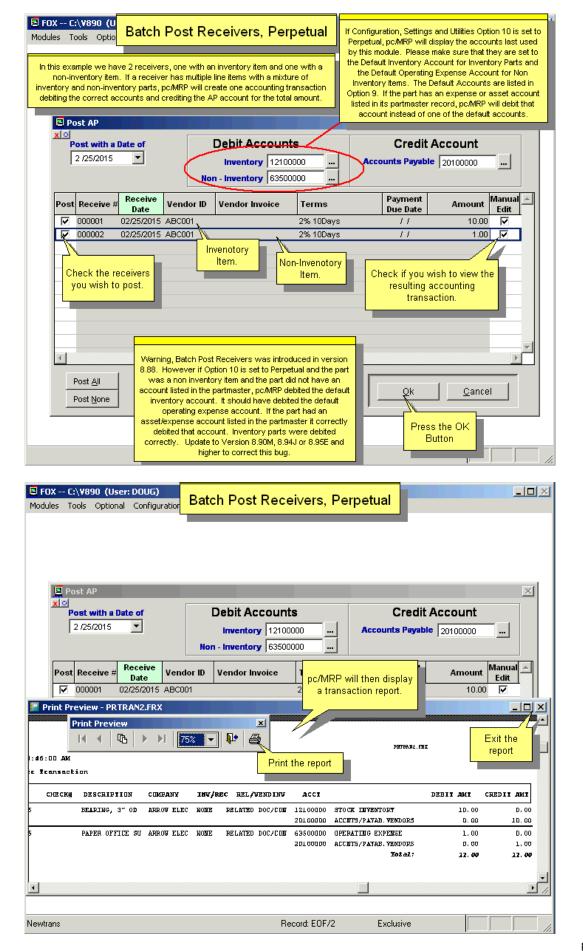
#### 14.8.6 Batch Post Receivers

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:

Modules Tools Optional Configuration	<mark>eceivers, Perpet</mark>		_0×
Post AP		_	X
Post with a Date of Debit Acco	2100000 Acc	Credit Account	
Post         Receive # Date         Vendor ID         Vendor Invoid           Image: Comparison of the state of	pc/MRP will the 2 a transaction		Int Hanual A
Print Preview	Print the report	7477fthRê. FBI	Exit the report
CHECKH DESCRIPTION CEMPANY INV/REC REL/VEND	INV ACCI	DEBIT ANT	CREDIT ANT
5 BEARING, 3" OD ARROW ELEC NOME RELATED DOC.	/COM 12100000 STOCK INVE 20100000 ACCUTS/PAY		
5 PAPER OFFICE SU ARROW ELEC NOME RELATED DOC.		EXPENSE 1.0	0 D.00
<u> </u>			-
Newtrans	Record: EOF/2	Exclusive	
FOX C:\V890 (User: DOUG)			
Modules Tools Optional Configuration	Receivers, Period		
Post AP			×
Post AP	unts 1100000 Acco	Credit Account	×
Post AP 2 /26/2015  Inventory 4	unts 1100000 Acce 3500000	Credit Account	
Post AP 2 /26/2015  Post with a Date of 2 /26/2015  Post Wender Inventory 63 Post Receive # Receive	unts 1100000 Acce 3500000	Credit Account ounts Payable 20100000	I Manual A
Post AP 2 /26/2015 V Post Receive # Receive Date Vendor ID Vendor Invoice	unts 1100000 Acco 3500000 Acco e Terms 2% 10Days pc/MRP	Credit Account ounts Payable 20100000 Payment Amour	× manual ▲ Edit 00 ▼
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Post AP Post with a Date of 2 /26/2015 Post Receive # Receive Vendor ID Vendor Invoice 000001 02/25/2015 ABC001 Print Preview - PRTRAN2.FRX	unts 1100000 Acce 3500000 Acce e Terms 2% 10Days pc/MRP a trans	Credit Account ounts Payable 20100000 Payment Amour // 11. will then display	× manual ▲ Edit 00 ▼
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# 14.9 Accounts Receivable

pc/MRP for Windows	- Version 8.50B (User: RICHARD)		
Modules Tools Optional	Configuration Manual Developer	Help	
Inventory			
<u>B</u> OMs •			
Stockroom			
Purchase •			
<u>R</u> eceive			
Work Order 🕨 🕨			
<u>S</u> ales Order ►			
In <u>v</u> oice •			
S <u>h</u> ipment			
Address Book			
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 Detail 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>Financials</u>		
	Enter / Edit <u>B</u> udget Figures		
Receivable vouchers & repo	Audit Transactions		NUM
	Audit & Hodata Address Palances		

# 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

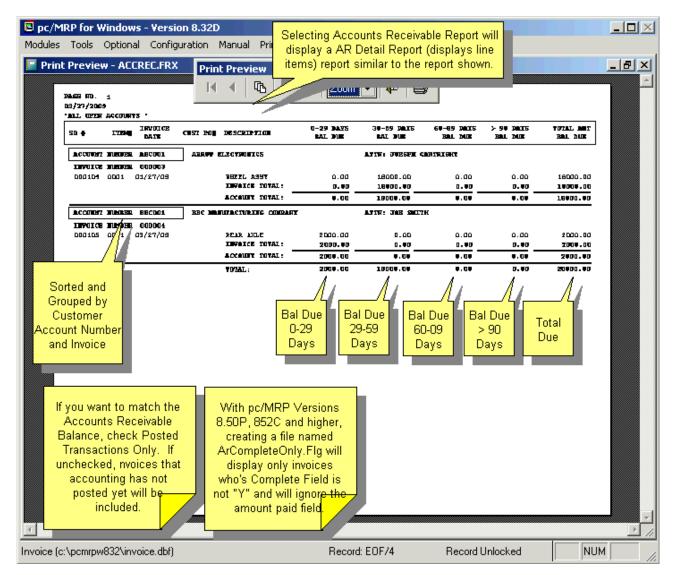
Selecting the accounts receivable report option will provide a consolidated printout of all accounts or a single account subtotaled on invoice and account numbers. The balance due amounts are totaled in the 0-29, 30-59, 60-90, and Over 90 days columns.

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).

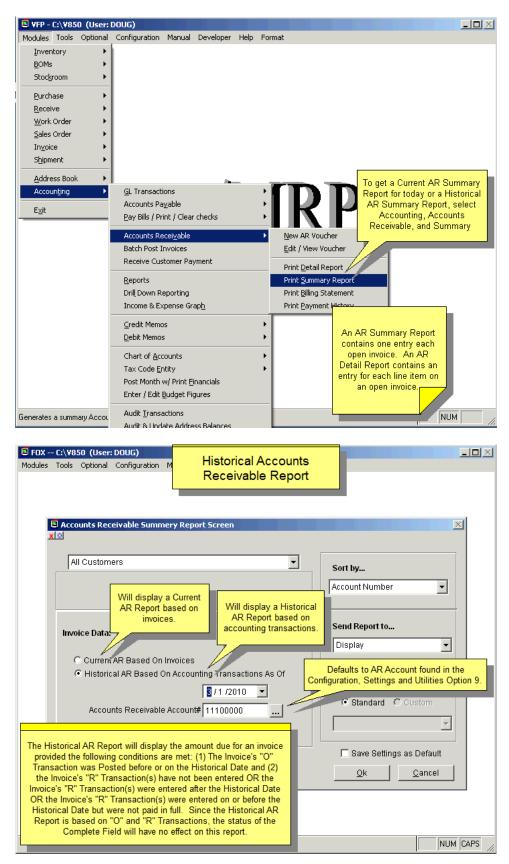
Since invoicing an item automatically creates an accounts receivable voucher, you may end up with some unwanted accounts receivable records. These records can be eliminated from showing up on the Accounts Receivable Report by using the Invoice Edit Module and entering a Y in the Complete field.

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.

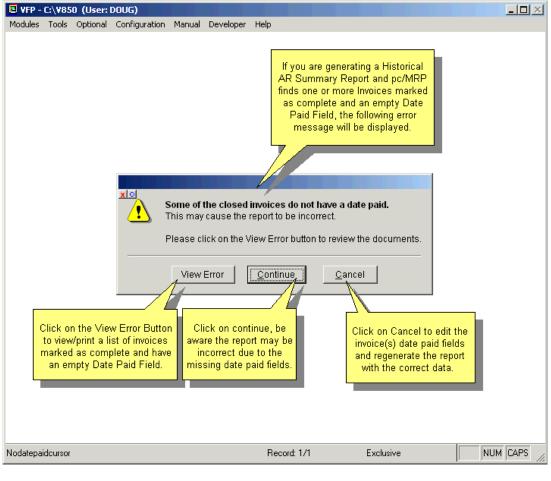
## 14.9.3.1 Accounts Receivable Detail Report

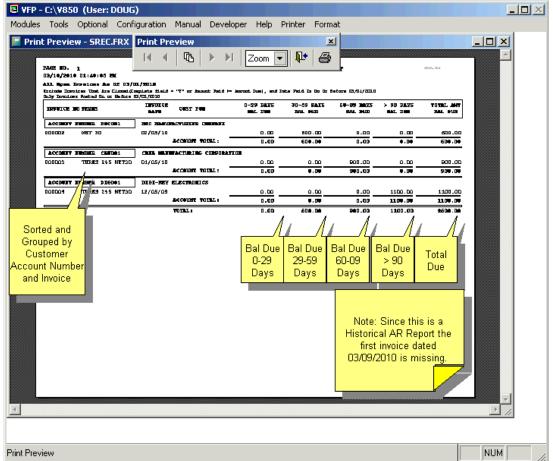


#### 14.9.3.2 Accounts Receivable Summary Reports



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.



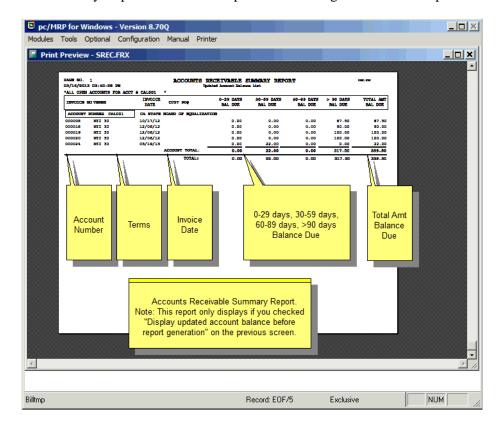


#### 14.9.4 Print/Display Billing Statements

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.

pc/MRP for Windows - Ve Modules Tools Optional Cor					_ <u>_ </u> _ ×
Print Preview - BILL.FRX					
Print Preview I I I I I I I I I I I I I I I I I I I		AS OF : PAGE NO.	: CALOD1 980-112-1112		
INVOICE: DATE	CUSIDER PO#	AMOUNT DUE	AMOUNT PAID	HALANCE DUE	
000008 10/17/ 000018 12/06/ 000019 12/06/ 000020 12/06/ 000020 12/06/ 000024 03/19/	12 12 12	billing statement	0.00 0.00 0.00 0.00 0.00 <b>707AL</b> :	67.50 50.00 100.00 100.00 22.00 339.50	
Billtmp		Record: EOF/	5 Exclusi	ve	NUM

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:



#### 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 Configuration	Receive Custo	mer Payment	Account	will display the Bank t that was used last function was used.
Receive Customer Payment     Customer ID ABC001     Bank Account 10200000     Amount Received 2,000.00		lect customer elect bank account ter amt recvd and c	heck #	action Date 009 💌 ed Amount 0.00
Pay         Date         Invoice #         Invoice           ✓         11/30/2009         000001         ✓           ✓         11/30/2009         000002         ✓           ✓         11/30/2009         000003         ✓           ✓         11/30/2009         000003         ✓           ✓         0.00003         ✓         ✓           ✓         6. OR click on Auto I         ✓           ✓         6. OR click on Auto I         ✓           ✓         ✓         ✓	erse the	50.00 1,891.34 nount to pice until	Edit C	If you leave an Invoice open, pc/MRP will record the partial payment and leave the invoice
Auto Distribute Select None I✓ Print Su Chec a s num	2,073.57 2,073.57 ummary Report king Print Summary Rep ummary report containing ber, transaction number ebited and credited for ea Re	ort will provide g the invoice and amounts	In the abor 000001 a \$10.00 E discount, \$ tax. Invoice Wheel Ass	open for another payment. Exit we example Invoices nd 000002 are for 5 Bearings with 10% 10.00 freight, 8.125% e 3 is for 1 \$2,000.00 by with 10% discount, ight and 8.125% tax.

#### **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.

🙆 VFI	P - C:\¥846 (	(User: DOUG	6						
Modul	es Tools O	All open	(un-posted) invo	oices er	Help				
		will	be displayed.						
	legister Rec	ei		it i	Memos)				×
×							Accounts Receivabl	e 11100000	
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		1					131 OT ODDUS 3010 ACC	,	
Post	Date	Invoice #	Sub Total	Discount	Tax	Freight	Invoice Total	Cost Of Goods	Manual <u>+</u> Edit
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V	11/30/2009	000002	50.00	5.00	3.66	10.00	58.66	46.30	
	11/30/2009	000003	2000.00	200.00	146.25	10.00	1956.25	290.00	
						r			
							2. Select the Invoid	ce Transactions	3 - 4
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					5D1000D0	WAGES	D. 00	20D. 00
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					121000D0	STOCK INVENTORY	D. 00	46.30
					21100000	SALES TAX	D. 00	3.66
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					11100000	ACCUT/RECVE. CUSTOMERS	58.66	D. 00
					4D1 500D0	CDST OF GOODS SOLD	46.30	D. 00
						Total:	<b>2456.17</b>	P456. 17

# 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 Optiona	l Configuration Manual Deve	Overview			
Inventory 🕨	·) l	Overview			
<u>B</u> OMs ▶					
Stockroom					
Purchase •					
Receive					
Work Order 🔹 🕨					
<u>S</u> ales Order 🔹 🕨					
In <u>v</u> oice					
Shipment •					
Address Book					
Accounting 🕨	GL Transactions		רחר		
	Accounts Payable	•	J U -		
	<u>Pay Bills / Print / Clear check</u>	s 🕨			
"Create an ind	endent credit memo (not att ependent credit memo and p Jent credit memo and attach invoice".	rint a refund check" 🌔	ts	- 11 - 21 - 21	
	Income & Expense Grap <u>h</u>			Edit / View a	
	<u>C</u> redit Memos	▶ <u>N</u> ew			t a credit
	<u>D</u> ebit Memos	► <u>E</u> dit ;	View		nemo.
	Chart of <u>A</u> ccounts	► <u>P</u> rint		- 17	+
	Tax Code <u>E</u> ntity	>	:h Independent Credit №	lamas ka Opan Tauaisa	
	Post Month w/ Print Einancia	ils Aug	In Independent Credit M	ienios to Open Invoice	5
	Enter / Edit <u>B</u> udget Figures				_
Create a New Credit Memo	Audit Transactions		Attach an Independ in the past to a ne	lent Credit Memo c w open (unpaid) inv	

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:

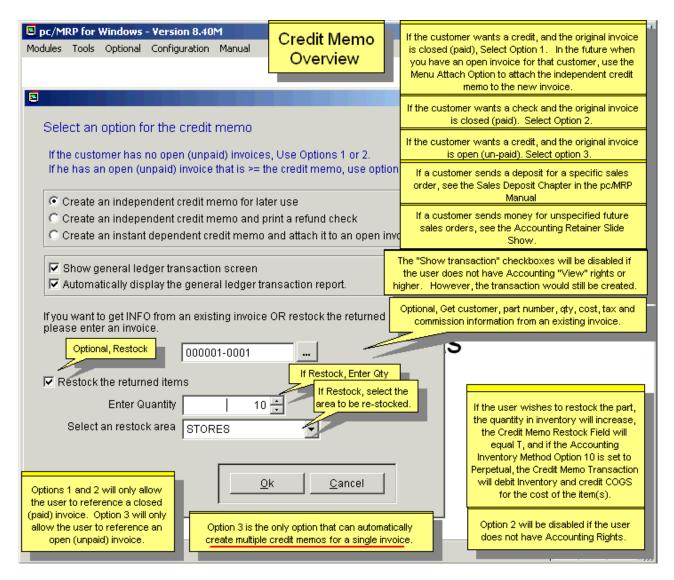
Create an independent credit memo (not attached to any invoice);

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.

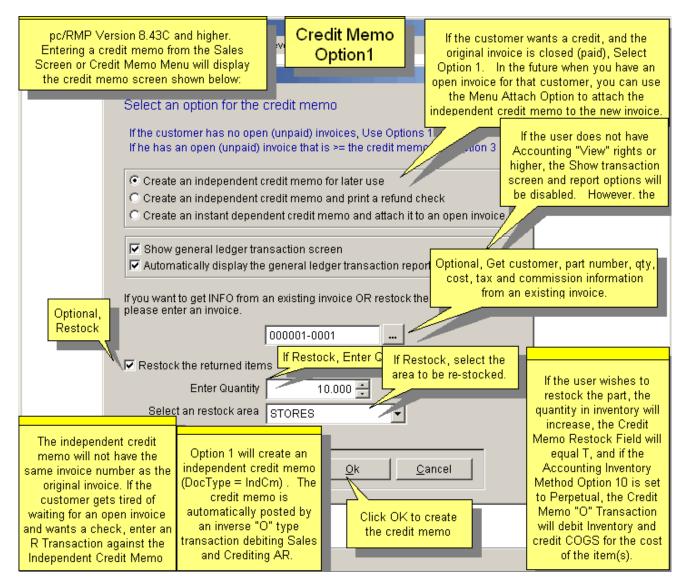
VFP - C:\V832 (Us Modules Tools Optic	ser: DOUG) onal Configuration Manual Deve	eloper Heli			
	To enter a custom xloi Sale Type	credit me er from thi select Mo lew and cl les Return 0 3 F 0 4 C 0 5 II	mo for a e Sale odules, lick on 1 2017/MIRD	C 7 QC HOLD C 8 RMA C 9 STAGING C 10 SCRAP C 11 RESERVED	
	Terms Ship Via FOB	•		Faxable Resale Food Product Service J.S. Government Dut 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
	Save Settings as Default		<u>0</u> k	<u>C</u> ancel	to be created from the sales module.

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.

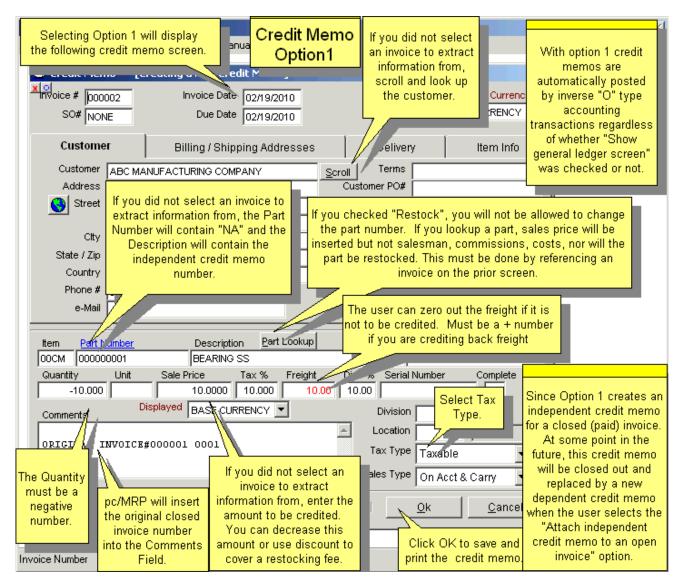
Option #1 will only allow the user to reference a closed (paid) invoice.

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.

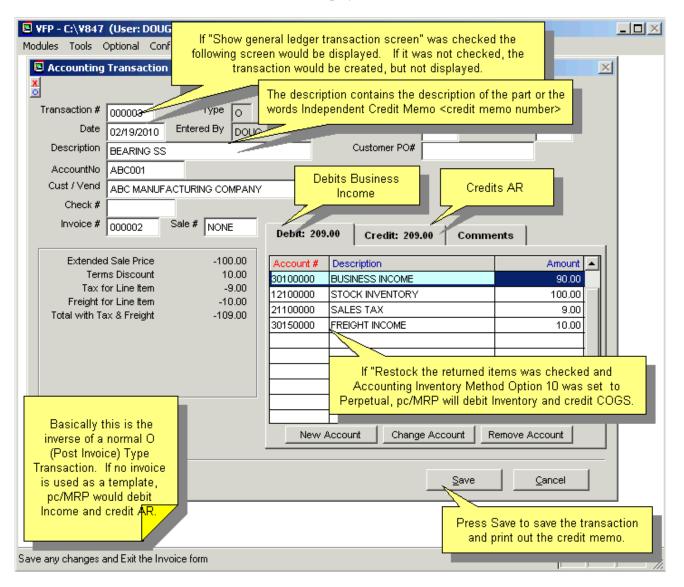
With credit memos pc/MRP will check for the following conditions, Quantity < 0, Sale Price > 0, Freight, Tax %, Discount >= 0, the address is not empty and the Part Number contains an "NA" or a valid part number.

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
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SHIP VIA: TORHS:		ACCT: ABC		
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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
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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.

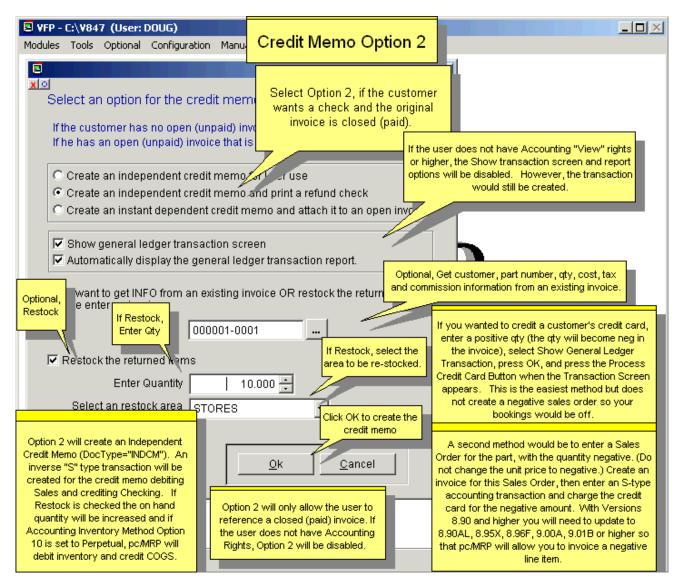
# **Option #1, Behind the scenes**

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					_ 🗆
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			number) cred	it memo.						
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×	Int	lexed Se	arch (Fastest)				Queried	Search		
Sav	e Settings	Sor	t Or <u>d</u> er		Inclu	de			1	
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# 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.

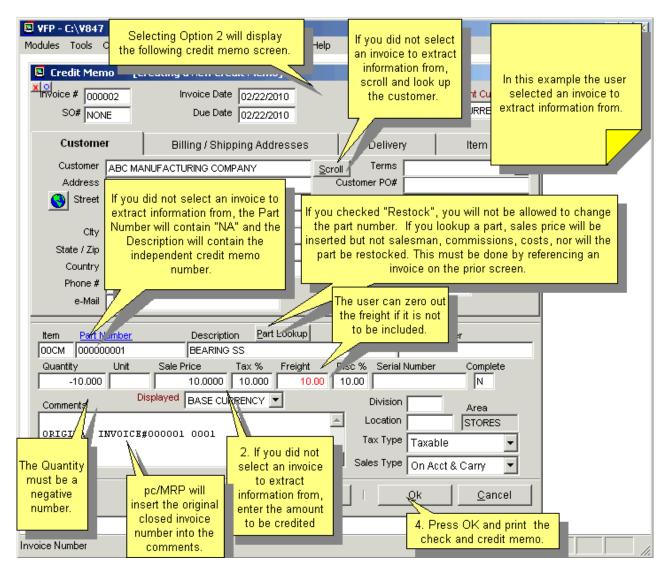
If the user does not have Accounting Rights, option #2 will be disabled.

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 you want to credit a credit card account instead of printing a check, the easiest method is the following: Instead of a credit memo, enter a Sales Order for the part, with the quantity negative. (Do not change the unit price to negative.) Create an invoice for this Sales Order, then enter an S-type accounting transaction and charge the credit card for the negative amount.

# **Option #2, Credit memo screen**

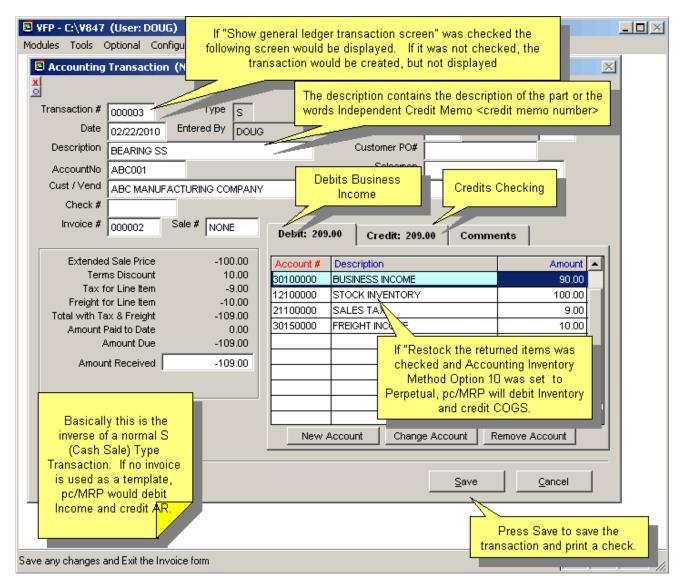
If you selected option #2, "Create an independent credit memo and print a check", you would get the following credit memo screen:



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.



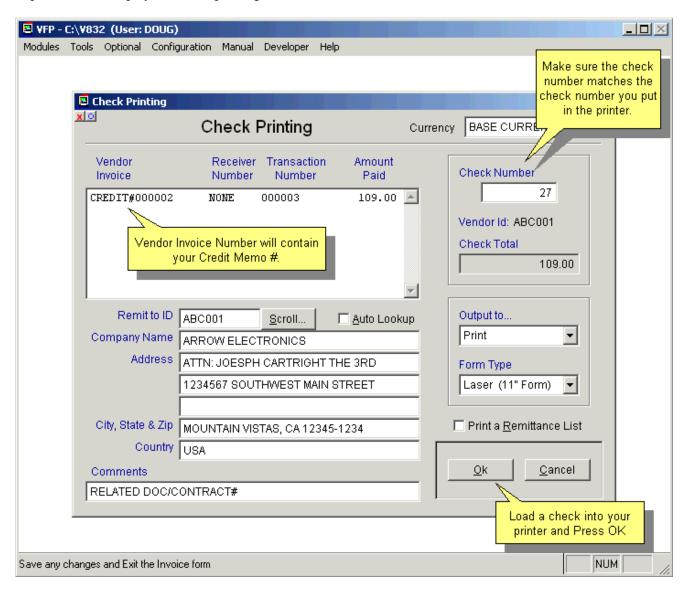
Basically this is the inverse of a normal S (Cash Sale) Type Transaction. If no invoice is used as a template, pc/MRP would debit Income and credit AR.

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**

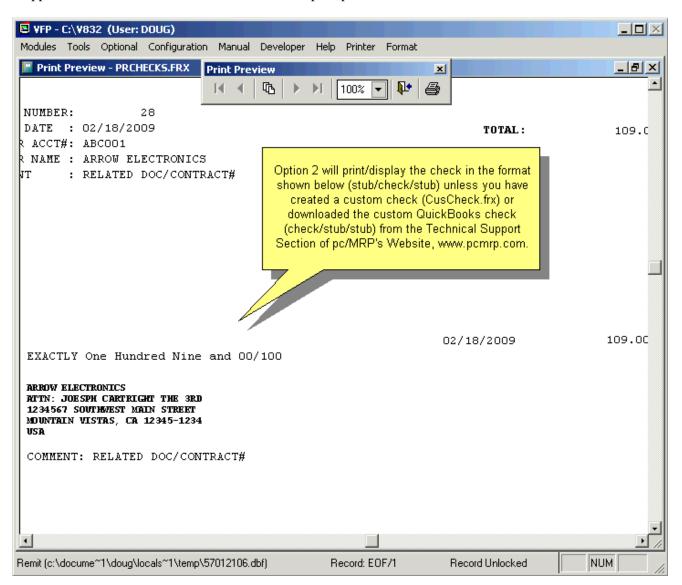
Option #2 will display the check printing screen shown below:



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:

Print I		Optional Conf ew - INVOICEB.	figuration Manual D FRX	eveloper Help	Princer Porm			
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# **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.

ALL DO	¥832 (User: I									
	eview - PRTR	Configuration AN2.FRX Print Preview	Manual D		Help Printer		following S		n Screen" play the Memo	×
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4				remaining included t what goes	e done! The g screens ar o demonstra s on behind t cenes.	e ite				
rancursor					Record: EOI	=/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.

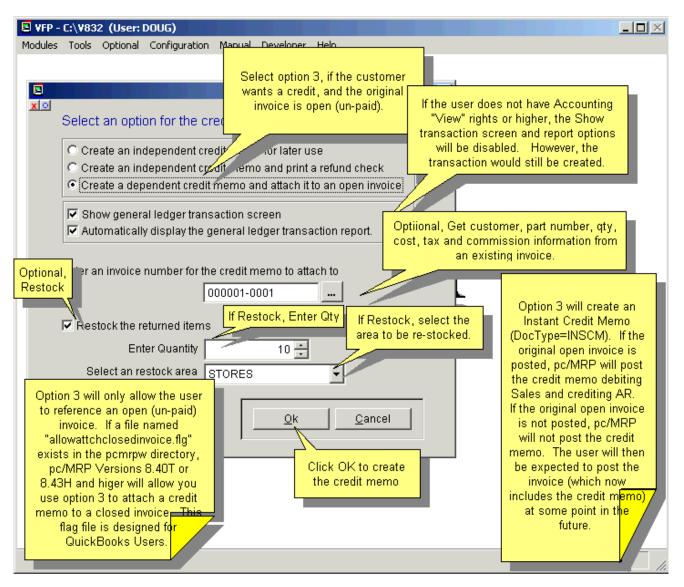
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		12100000	STOCK INVENTORY	0.00	100.00
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· · · ·	original invoice 000001	30150000	FREIGHT INCOME	0.00	10.00
C MANUFA 00000		10200000	BANK CHECKING ACCOUNT	109.00	0.00
	Inverse S transaction	11100000	ACCNT/RECVB. CUSTOMERS	0.00	109.00
C MANUFA 00000	for the independent credit memo 000002.	30100000	BUSINESS INCOME	90.00	0.00
	creat memo 000002.	12100000	STOCK INVENTORY	100.00	0.00
~		21100000	SALES TAX	9.00	0.00
/		30150000	FREIGHT INCOME	10.00	0.00
Inventory	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 j	was checked.				

pc/MRP V9.10

## 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					
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Custom Customer			Delivery	Item Info			
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City State / Zip Country	Description will c	ontain the 🔤 insert	ed but not salesma t be restocked. This	n, commissions, costs s must be done by refe	, nor will the		
Phone #			the freight if it is n				
			/	er er Complete			
-10.000 Commentar	· · · · · · · · · · · · · · · · · · ·	<u> </u>	Division	Select Tax Type.			
Enter the correct quantity as a negative number.	Address       000001       Invoice Date       02/22/2010       Document Currency         SO#       000103       Due Date       02/22/2010       BASE CURRENCY ▼         Customer       Billing / Shipping Addresses       Delivery       Item Info         Customer       Address       If you did not select an invoice to extract information from, the Part Information from, the Part Information from, the Part Information will contain "NA" and the Description will contain "NA" and the Independent credit memo number.       If you checked "Restock", you will not be allowed to change the part number. If you lookup a part, sales price will be inserted but not salesman, commissions, costs, nor will the part be restocked. This must be done by referencing an invoice on the prior screen.         Phone #       e-Mail       The user can zero out the freight if it is not to be included.         tem       BetaRING SS       Select Tax         O000000001       BEEARING SS       Select Tax         Out to Take price       Tax %       Freight       It is so %         OBLICT       INVOICE#000001       Dool       The sale price       Division         Displayed       BASE CUPENCY ▼       Division       Click OK to save the credit memo and print the original invoice with the credit.         ORECT       INVOICE#000001       Dool       Dool       Division       Type.         ORECT       INVOICE#000001						

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.

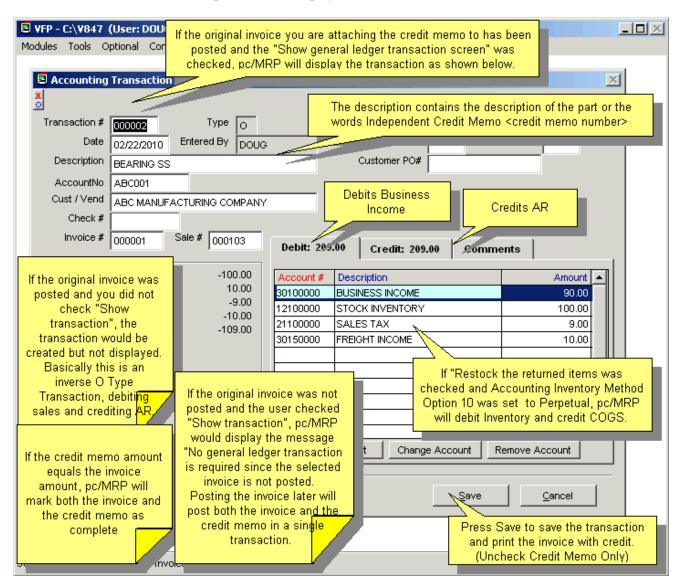
If the invoice was posted and the credit = invoice, both will be posted and complete.

If the invoice was not posted the credit memo will not be posted.

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## **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		/832 (User: DOUG) ols Optional Config	ration Manual	Developer Help	Printer For	mat		<u>_   ×</u>
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		The 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.       13         Bit del 226-1321       Bit del 226-1321         All del 226-1321       Bit del 226-1321         Bit del 226-1322       Bit del 226-1321						
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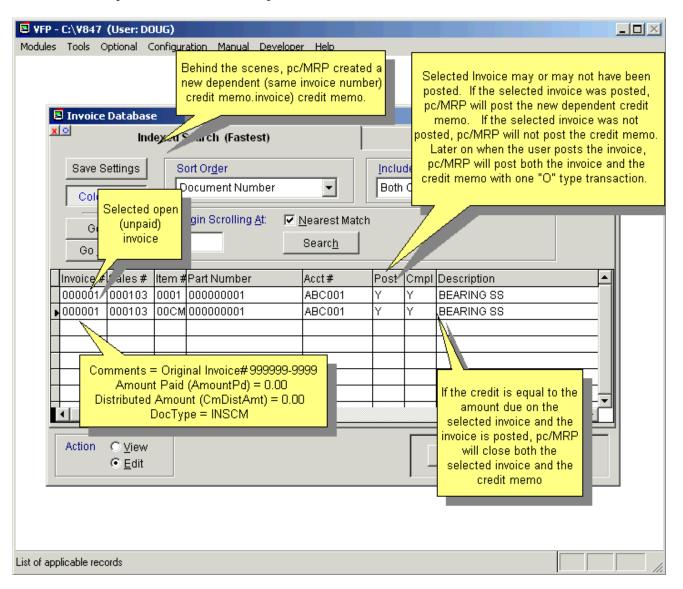
# **Option #3, Print/Display Independent Credit Memo Transaction**

If you checked "Display General Ledger Transaction Screen" pc/MRP would Print/Display the following Credit Memo Transaction Report.

10	¥832 (User: I								Þ
Print Pr	eview - PRTR	Configuration AN2.FRX Print Preview			Help Printer	If you checked "Dis Ledger Transaction So would Print/Display Credit Memo Transa	creen" pc/MRP the following	0:1	×
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	BEARIDG S5	ABC NADUFA	000001		3010D000 1210D000 2110D000 3015D000 1110D000 4015D000	BUSINESS INCOME STUCK INVENTORY SLIES TAX FREIGHT INCOME ACCNT/RECVE.CUSTOMERS COST OF GOODS SOLD	90.00 100.00 9.00 10.00	109.00 100.00	
<u>.</u>				remainin included t what goes	e done! The g screens are o demonstrat s on behind th cenes.	te 🛛			
					Record: EOF	71 Exclusive		NUM	1

#### **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.

<b>VFP - C:\V847 (</b> Aodules Tools Op	otional Configuration	Manual Print Pre	•	Help Printer Format	created th transa	enes, pc/MRP e following ctions.
MPANY INV/R	EC REL/VENDING	7 TRAN TYPE	АССТ		DEBIT AMT	CREDIT AMT
MANUFA 000001		0	11100000	ACCNT/RECVB. CUSTOMERS	109.00	0.00
	1		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 trans	tion	21100000	SALES TAX	0.00	9.00
	posted the invo		30150000	FREIGHT INCOME	0.00	10.00
MANUFA 000001	debiting AR a	ind	30100000	BUSINESS INCOME	90.00	0.00
λ.	crediting sales accounting is s		12100000	STOCK INVENTORY	100.00	0.00
	perpetual pc/MR		21100000	SALES TAX	9.00	0.00
	also debit COG	sand	30150000	FREIGHT INCOME	10.00	0.00
	Credit invento	ory	11100000	ACCNT/RECVB. CUSTOMERS	0.00	109.00
The second	O transaction		40150000	COST OF GOODS SOLD	0.00	100.00
posted the debiting sal AR. If acco perpetual and restocked th will also deb	e credit memo es and crediting ounting is set to the credit memo e item, pc/MRP pit Inventory and t COGs.	men on will both mer	no equals t the invoice automatic	, pc/MRP ally close and credit ng a "Y" in	418.00	418.00
trntmp		- "	en complet			

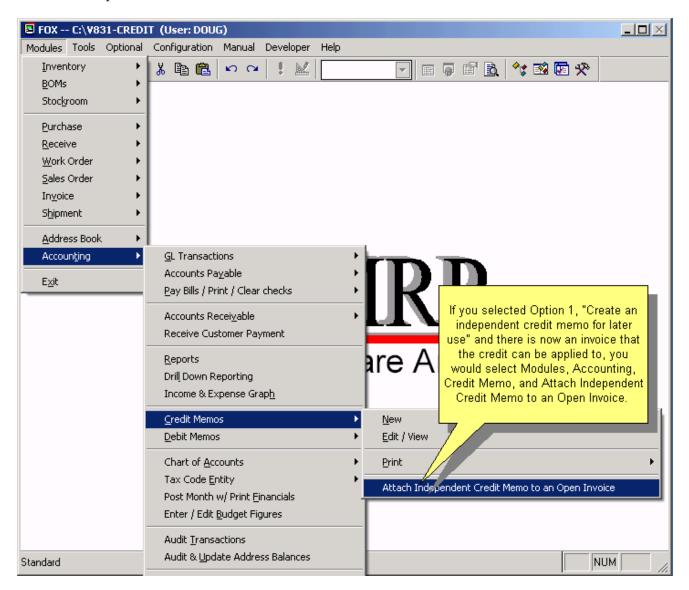
The first O transaction posted the invoice debiting AR and crediting sales. If accounting is set to perpetual pc/MRP will also debit COGs and Credit inventory.

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.

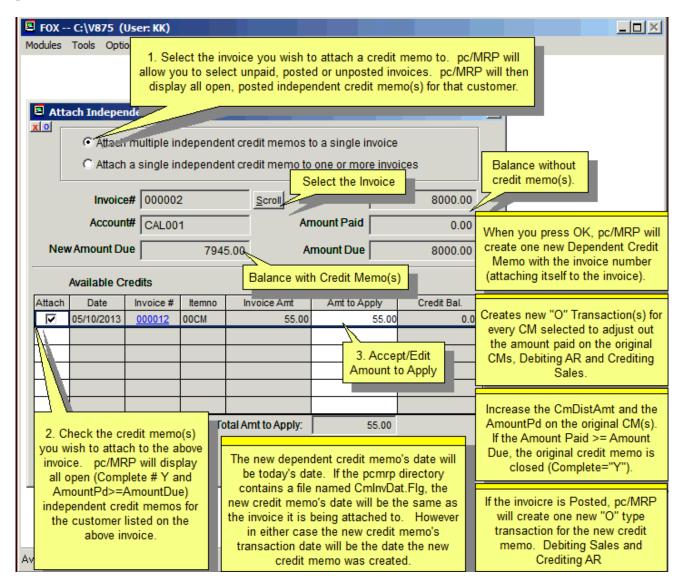
#### 14.10.6 Attach Independent Credit Memo to an Open Invoice

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

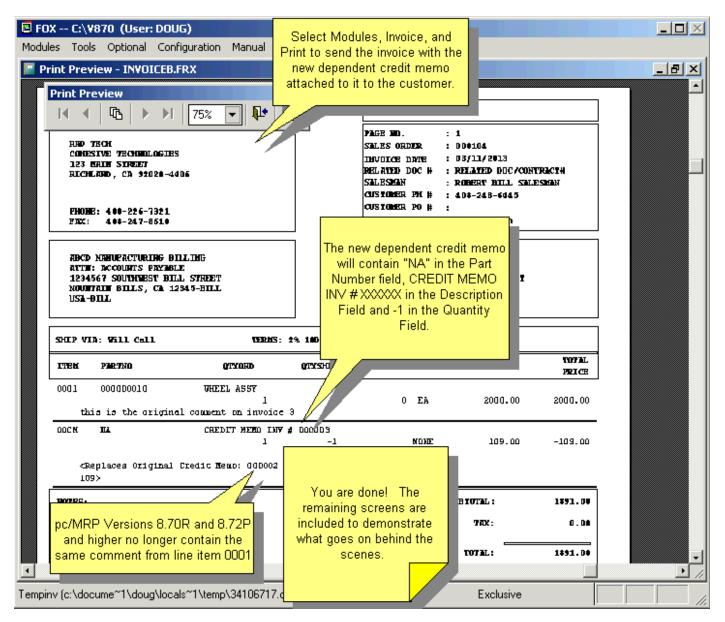
If the amount = the amount due it closes the original independent credit memo Create a new dependent credit memo to replace the original independent credit memo If the invoice was posted

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

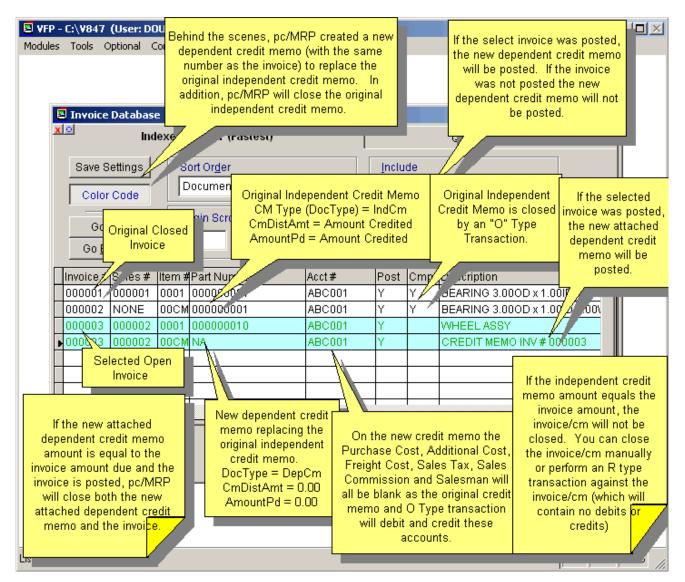
Select Modules, Invoice, and Print to send the invoice with the new dependent credit memo attached to it to the customer.



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.

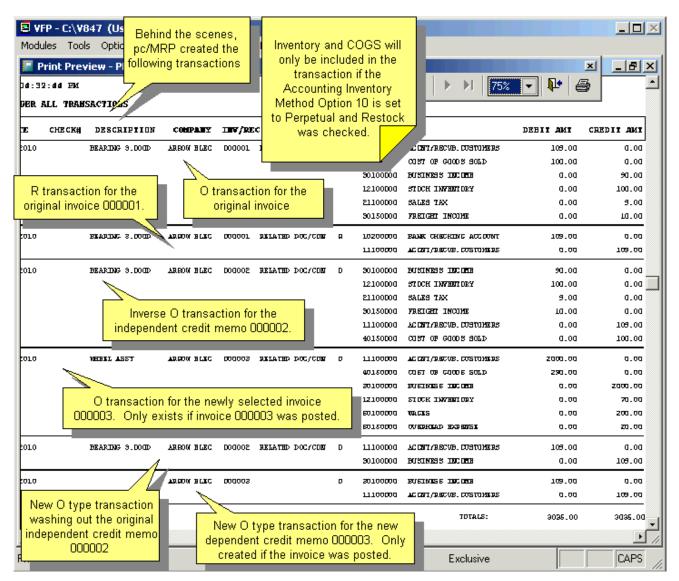


Original Independent Credit Memo 000002 comment: ORIGINAL INVOICE#000001 0001 <Replace by new credited memo: 000003 00CM Amount: \$60>

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	2
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.

Step - C:\V832 (User: DOUG) Modules Tools Optional Configuration Manual Developer Help	_0×
Credit Memo [Edit Mode]           X 0         Invoice Date         02/26/2009           SO#         NONE         Due Date         02/26/2009	Document Currency BASE CURRENCY
Customer       Billing / Shipping Addresses       Delivery         Customer       ABC MANUEACTURING COMPANY       Sevell       Terms         Address       ATTI       Image: Customer ABC MANUEACTURING COMPANY       Sevell       Terms         Address       ATTI       Image: Customer ABC MANUEACTURING COMPANY       Sevell       Terms         Address       ATTI       Image: Customer ABC MANUEACTURING COMPANY       Sevell       Terms         Address       ATTI       Image: Customer ABC MANUEACTURING COMPANY       Sevell       Terms         Image: Customer Address       ATTI       Image: Customer ABC MANUEACTURING COMPANY       Sevell       Terms         City       Rich       Image: Customer ABC MANUE Customer Address       You have ch       If you want th       Guantity check the "Adjust Inventor Customer Adjust Inventor Area Oty up by 1         Atem Part Number       Area To adjust       STORES       Image: Customer ABC MANUE Customer Area Oty up by 1         Area To adjust       STORES       Image: Customer ABC MANUE Customer Adjust Inventor Area Oty up by 1       Area To adjust       Image: Customer ABC MANUE Customer Adjust Inventor Area Oty up by 1         Manue Customer Adjust       Image: Customer Adjust Inventor Area Oty up by 1       Area To adjust       Image: Customer Adjust Inventor Area Oty up by 1         Comments       Image: Cu	ntory Qty" ory area to 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
Delete     Logbook     Boiler Plate     Labels     I       Invoice (c:\v832\invoice.dbf)     Record: 2/4	credit memo for the remaining items. In this manner the debits and credits would be correct.

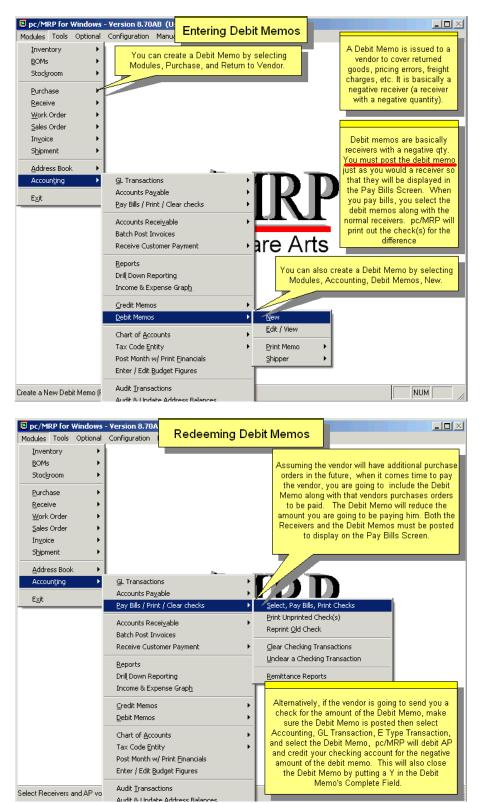
pc/MRP adjusts the credit memo's quantity and the inventory quantity. It does not adjust the original sales order quantity nor does it adjust the credit memo's inverse "O" type accounting transaction. This must be done by manually editing the sales order and the transaction. If the original credit memo 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.

### 14.11 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.

#### 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
    - o 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.
  - o Debits Inventory or purchases for a negative amount
  - 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)
  - o Credits Checking for the amt of the debit memo(s)
  - Debits AP for the amt of the debit memo(s)
  - 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:

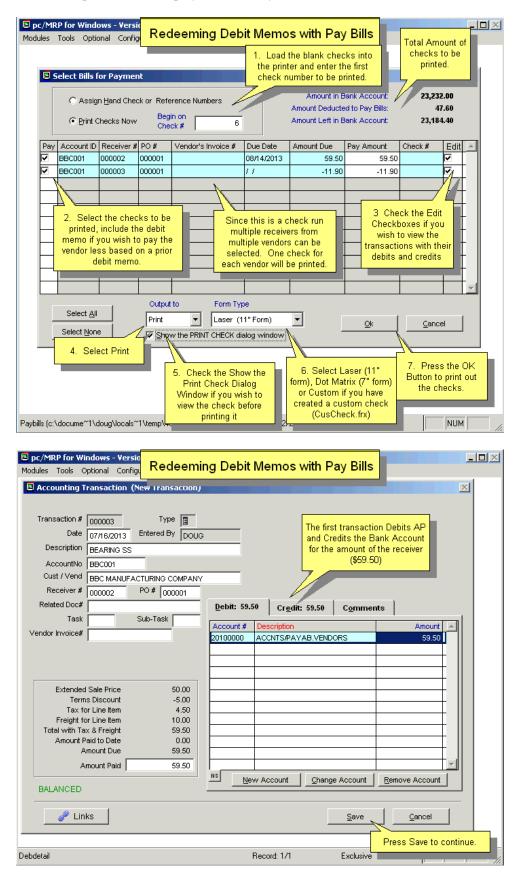
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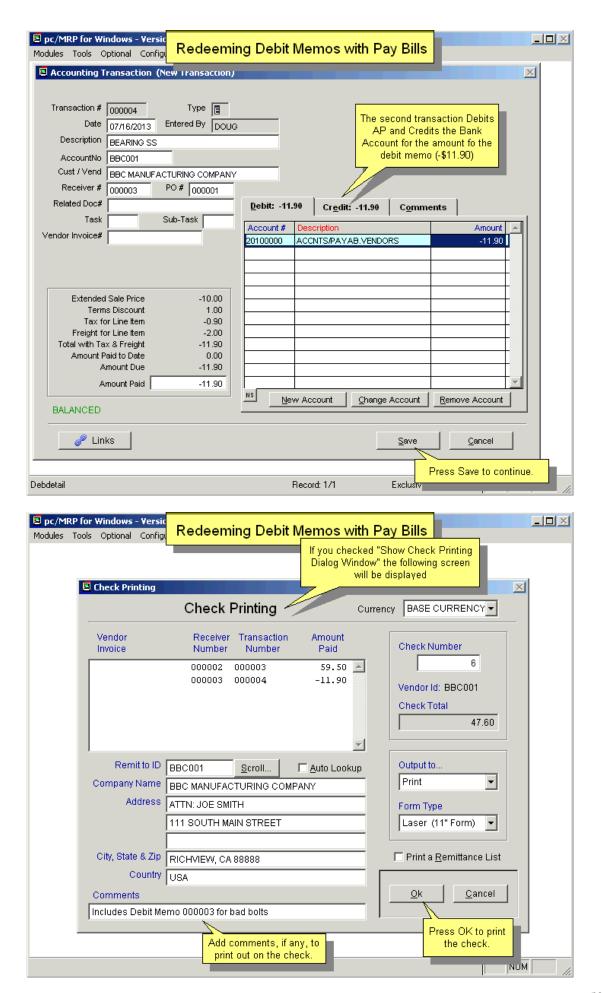
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To post the debit memo transaction, select Modules, Accounting, GL Transactions and New Transaction. Select "I", Register accounts payable invoice or debit memo.

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.





### 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.
- 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

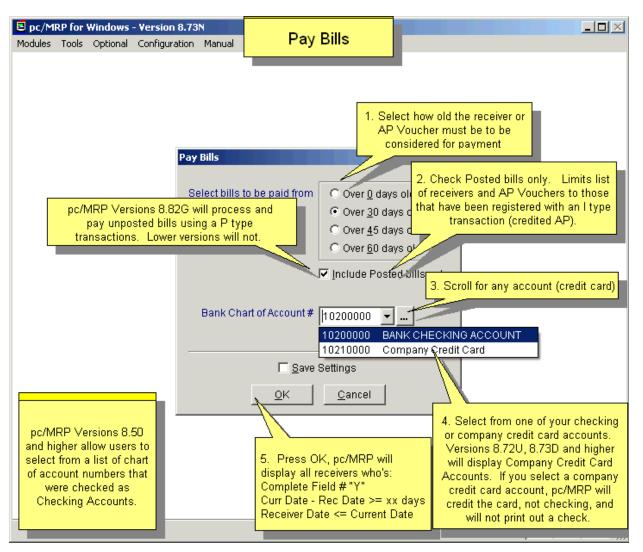
#### Step 1, Select Pay Bills, Print Checks from the menu

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.

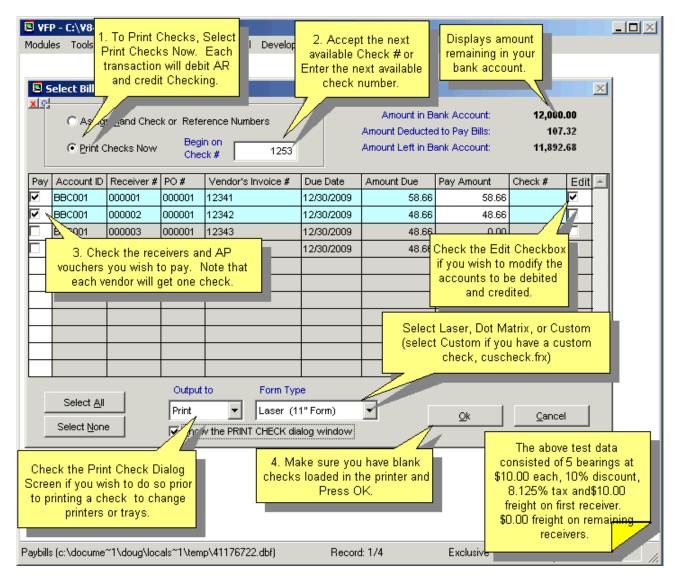
Checking Include Posted Only will allow you make sure only receivers and AP vouchers that have been posted (with an I type transaction debiting inventory or expense and crediting AP) will be considered for payment.

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.

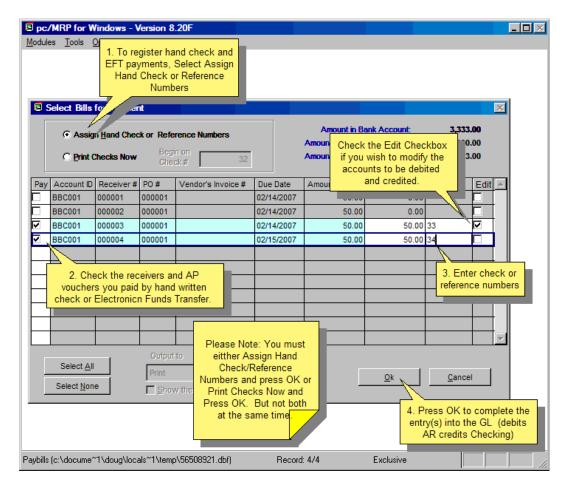
#### Step 3, Select Receivers and AP Vouchers to be paid

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.



**Note:** You must check the 'Show the PRINT CHECK dialog window' if you need to change the printed check currency from the base currency!

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.

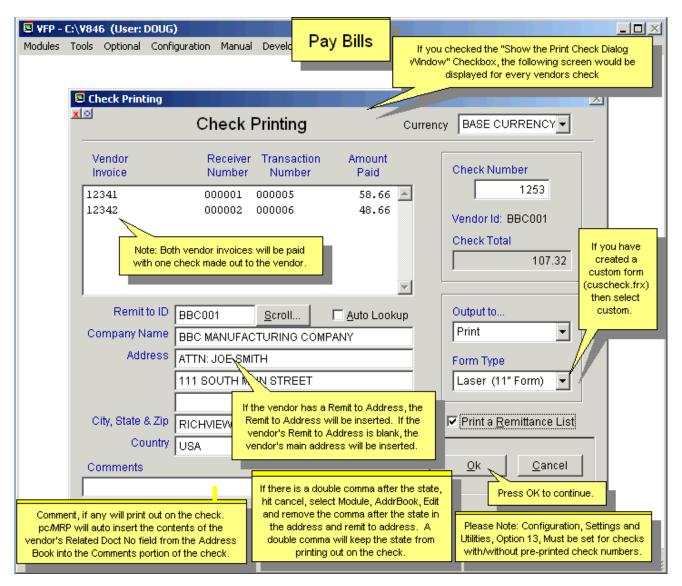
If a specific check has more than 10 receivers, pc/MRP will prompt you to place a blank check form in the printer, print it, and then ask you to place a blank sheet of paper in the printer to print out a remittance list for that specific check as the check stub does not contain enough room to include 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.

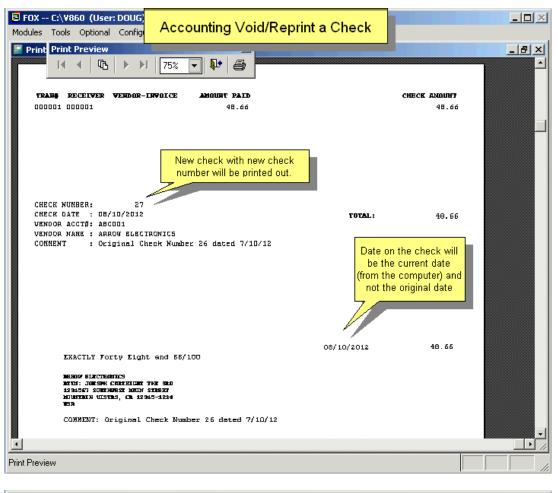
To void a check number and reprint a check (with a new check number) select the 'Reprint Old Checks' option, enter the checking account chart of accounts number, enter the original check number and click OK. pc/MRP will display the screen shown below (remember to change the check#):

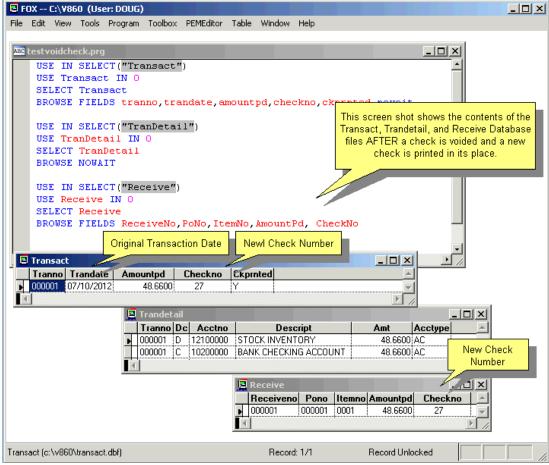
pc/MRP for Windows - Vers			
Check Printing			
	Check Printing	Currency	
Vendor Invoice	Receiver Transaction Number Number	Amount Paid	Check Number
	000001 000001	50.00	101 Vendor Id: BBC001 Check Total 50.
Remit to ID Company Name	BBC001 <u>Scroll</u> BBC MANUFACTURING COMPA	Auto Lookup	Output to Print 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 riew 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>V846 (</b>	User: DOUG)						
Modules T	fools Op	tional Config	uration <u>Man</u> u	ial Developer	Help			
					ecks tab to cl nas received cl		ect the Deposit tab to ts (bank has received	
	All the second s	lect the Cheo	ks & Depr	chat have	cleared the Ba	ank		
	xo		Chec <u>k</u> s				S	
		Cred	its to Che	ecking		mber of Credits: <b>2</b> Total of Credits: <b>155.</b> 9	98	
	Clear	/ 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		this example \$58.66 and \$ id for in a sing the vend	48.66 were le check to		
						<u>O</u> k	<u>C</u> ancel	
Consolchk (c	c:\docume	~1\doug\local	s~1\temp\37(	000470.dbf)	Record: 2/	'3 Exclusiv	re	

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

The check-writing module can be preset in the Configuration Menu to use or not use pre-printed check numbers, **Option 15**.

You can simply order checks from your local bank. You can create a custom check if you need to modify the layout for the check or for the envelopes you are using. (See Section 15.4 to learn about custom forms.)

#### 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

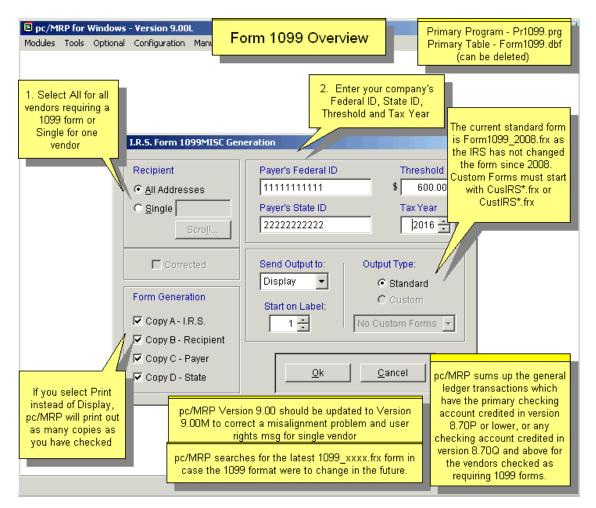
#### 14.17.1 1099MISC and 1096 IRS Tax Forms Overview

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

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 above 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 © Employer ID # © Social Security	1099 Total	l Number of ) Forms Amount of )99 Forms	1 +
✓ Printed Address  Final F Our Contact Contact Phone () - Contact Fax () - Contact E-Mail	Return	Send Ou Disp Output T I Stand	lay 💽
		<u>0</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
Remote ID (RID)
ABC CO.
Batch ID (BID)
ABC ARP INPUT FILE
Reguest a Confirmation File
Save Defaults       ✓iew 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

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).

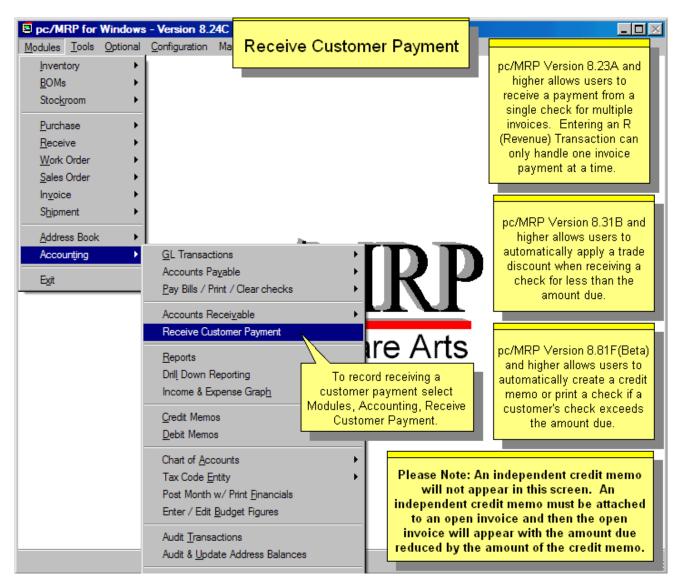
To view a specific batch number or check number, open up the log file, select Search and enter the batch number or check number. The individual batch files themselves can be viewed using Windows Notepad.

# **14.19 Receiving Customer Payments**

#### 14.19.1 Overview

For detailed, step-by-step instructions see http://www.pcmrp.com/mrp101/customerpaymentmenu.htm

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

odules Tools Optional Configu	uration Manual D	)eveloper Help				_ 🗆
Receive Customer Paymen		1. Scroll and se	lect customer	T		×
Customer ID ABC001	🛪	2. Scroll and s	elect bank acco	unt 📃 🦳	nsaction Date	
Bank Account 10200000		3. En	iter amt recvd an	d check #		
Amount Received 2,0	000.00	1354			outed Amount	
,				1		
	Invoice Amount	Amount Due	Payment	Discount	Invoice Status	<b>_</b> ≜∥
11/30/2009 <u>000001</u>	58.66	58.66	-	Edit	Complete	4
11/30/2009 <u>000002</u>	58.66	58.66	-	-	Open	4
11/30/2009 <u>000003</u>	1,956.25	1,956.25	1,891.34	Edit	Opin	≟ ∥
- Check coch invoice i					+-11	- 11
4. Check each invoice y wish to credit for this check		the payment ar ed for each invo			┼┍┙╚━━	
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						leave an ce open,
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rotals:	2,073.57	2,073.57	2,000.00			or another (ment.
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Customer ID ABC001 Bank Account 102000		RRC "PROCESS R Type Trai	SED" to indicate	the 1 een	2/ 1 /2009	e T
Customer ID ABC001		RRC "PROCESS R Type Trai entered an	SED" to indicate nsactions have b	the 1 een	2/ 1 /2009	e T
Customer ID ABC001 Bank Account 102000	2,000.00	RRC "PROCESS R Type Trai entered an ber	SED" to indicate nsactions have b Id the invoices ha	the 1 een	2/ 1 /2009	• • • •
Customer ID ABC001 Bank Account 102000 Amount Received	2,000.00	RRC "PROCESS R Type Trai entered an bei	SED" to indicate nsactions have b Id the invoices ha en updated.	the een we Undis	2/1 /2009 tributed Amou 0.0	• • • •
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Customer ID ABC001 Bank Account 102000 Amount Received Pay Date Invoice # 11/30/2009 000001	00 2,000.00 Invoice Amour 58	RRC "PROCESS R Type Trainentered an ber 166 5 66 5	SED" to indicate nsactions have b Id the invoices ha en updated. 8.66 S	the een we 3.56 Discount 3.00	2/1 /2009 tributed Amou 0.0 Invoice Stat Complete	• • • •
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Customer ID ABC001 Bank Account 102000 Amount Received Pay Date Invoice # 11/30/2009 000001 11/30/2009 000002 11/30/2009 000002 11/30/2009 000002 Print Preview - PRTRAN2.FR PANY INV/REC REL, MANUFA 000001 MANUFA 000002	00 2,000.00 Invoice Amour 58 58 1,956 PRC X /VENDINV 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10 10	RRC         "pROCESS R Type Trainent entered and being the second se	SED" to indicate nsactions have b d the invoices have en updated. 8.66 50 6.25 1,89 ED T/RECVB.CUSTON CHECKING ACCO DISCOUNT T/RECVB.CUSTON CHECKING ACCO DISCOUNT T/RECVB.CUSTON CHECKING ACCO	the een we Jose Discount Jose Edit Joo I.34 Edit DEBIT DEBIT MERS JOUNT LERS JOUNT 18	2/1 /2009 tributed Amou 0.0 Invoice Stat Complete 8.66 Complete Open Open AMT CRED 0.00 58.66 0.00 50.00 8.66 0.00 3.66 0.00 3.66	IT AMT 58.66 0.00 58.66 0.00 1891.34 0.00

You can now deposit another check for another customer, or click on Exit if you are finished. Page 430

## 14.19.3 Handling discount

VFP - C:				eceive	Custo	mer Payme	nt		_ 🗆 🗵
Bank	e Custom tomer ID Account Received	ABC001		ROW ELEC Check# 1354	for the due alter	scount Amount is remaining amour and can not be red by the user.	nt Trar	nsaction Date	S.
Pay Da	ate	Invoice #	Invoice Amount	Amo	ount Due	Payment	Discount	Invoice Status	
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11/30.	2009	000002	58.6	6	58.66	50.00	8.66	i Open 🖃	
✓ 11/30.	2009	000003	1,956.2	:5	1,956.25	1,891.34	Edit	Open 🚽	
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	unt Amou Int Accou	int:   int:   3085	8.66 <sup>-</sup> 0000				<u>Q</u> k	Exit	
<u>Apply t</u>	he Disco	Cl	ncel the Discou ick on Apply th plete the invoic iscount toward:	ie Disco e and ap	Settings an unt to oply the oice.	d Utilities, Option		Chart of Accounts ou can scroll and its.	

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xo	Customer ID	ABC001	ARRC	W ELECTRO	NICS			ansaction Date	
	Bank Accoun								
	nount Receive	1.0200000	2.000.00	Check# 1354			Undistri	buted Amount 0.00	
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Pay	Date 11/30/2009	Invoice #	Invoice Amount 58.66	Amount I	Due 58.66	Payment 58.66	Discount	Invoice Status Complete	┥╸╢
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	11/30/2009	000003	1,956.25	1.	956.25	1,891,34	Edit	Open	
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		<b>T</b>							
		Totals:	2,073.57	2,0	073.57	2,000.00			
	Auto Distribute Select None Print Summary Report								
	Click on OK to process the payments. pc/MRP will credit AR, debit checking, and (if necessary) debit sales discount.								
ecordcusp	payment			F	Record: 3	2/3 E	xclusive		

## 14.19.4 Handling overpayment

pc/MRP for Windows - Version Modules Tools Optional Configuration Modules Tools Optional Configuration Modules Tools Optional Configuration	ation Receive	Customer Overpayment		
Customer ID ABC001 Bank Account 1020000 Amount Received 4	and Bank /	Account 2. Enter Amount F	heck # 10/29/	saction Date 2013 • Ited Amount 1,000.00
Pay Date Invoice # 10/29/2013 000001 3. Check the invoices to be paid with this check.			Discount .00 Edit Enter Payment mount applied to the invoice	Invoice Status A
Totals:       Auto Distribute       Select None	40,000.00 4	0,000.00 40,000	.00	
	ve Customer Pay			1F and Higher
If the check exceeds the an memo or Print a check for th transactions for each invoice and insert a Y into the comp with line item ODAR, Descript a Credit Memo (Invoice with overpayment). 4. Create a Income for the amount of the	ne overpayment as showr selected, debiting checki lete field of each line iten ion AR Overpayment, Qty n line item ODCM, Descrip normal S type transaction	n below. If you hit ÖK ng, crediting AR for th n of each invoice. 2. ( y=1, Saleprice = amo otion Overpayment, Qf n for the AR Voucher i	, pc/MRP will 1.Crea e actual amount of e Create an AR Vouch unt of overpayment) y=-1, Saleprice = a (Debiting Checking,	ate R type each invoice ier (Invoice 3. 3. Create amount of Crediting
Pay Date Invoice # 10/25/2013 000001 Overpayment Detected Solution The payment amound istributed.	Invoice Amount Amou 40,000.00	40,000.00 transac AF Descri	R for the + amount o ption Overpayment •	biting Income, Crediting f the overpayment, Customer Check xxxx, it, insert a Y into the
	o handle the overpayment emo to apply to a future inv nd check for the overpayme	roice	are current Versions 8.8 allow you to a to the last	ions 8.81 and higher ly beta versions. 1B and lower would oply the overpayment invoice selected.
Press OK to Receive Customer Payments and Rece	Print Sur Ery Report ss Cancel to eturn to the eive Customer nents Screen.	for the CM ( the + am Overp:	Debiting Income, Cr ount of the overpayr ayment Ind CM xxxx ent Customer Check	ox, Comments

# 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			
Modules Tools Option	nal Configuration Ma	<sub>nual</sub> Retaine	r 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			×
Account # 2420 Debit/Credit Cred			ount is inactive 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.
Description RET				If a customer sends you money for
Description			te a Retainer	future sales orders that he has not
Sub Account of			nt. This is a	placed, that is a retainer. Follow
			ty account.	these steps.
	1			
Period	Starting Bal	Ending Bal	Budget	F
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Period 02	0.00	0.00	0.00	
Period 03	0.00	0.00	0.00	
Period 04	0.00	0.00	0.00	P
Period 05	0.00	0.00	0.00	
Period 06	0.00	0.00	0.00	
Period 07 Period 08	0.00	0.00	0.00	
Period 08	0.00	0.00	0.00	
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

pc/MRP for Window	vs - Version 9.00M al Configuration Manu	Retainer /	Αссοι	unts		_0)
	ar corniguration Mana					
-						
Chart of Accounts	5				×	
Account # 2421	0000 Acct Type L					
Debit/Credit Cred	Tax Deduct N	o 🔽 🗆 This i	s a Cred	it Card Acd	t	
Description Retai	ner for ALA001					
Sub Account of						
24200000						
			<u> </u>			
Period Period 01	Starting Bal 0.00	Ending Bal 0.00	Bud			(1)
Period 02	0.00	0.00				of the parent Retainer ustomer's money.
Period 03	0.00	0.00				determente money.
Period 04	0.00	0.00		0.00	Þ	
Period 05 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	0.00	0.00		0.00		
Period 10 Period 11	0.00	0.00		0.00		
Period 12	0.00	0.00		0.00		
						c/MRP will not let you faccount number and
Delete		Save/Exit	Car	ncel		ild account of a parent
						e child account has a
riodchart		F	Record: 1/	12	nistory or	any transactions.
pc/MRP for Window odules Tools Option	al Configuration Manu	Retainer	Acco	unts	_	
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Save Settings	Sort Or <u>d</u> er		Includ	le		
	Description	-	All ac	counts	-	
Color Code						
Go <u>T</u> op	Begin Scrolling <u>A</u> t:	Nearest Matc	h			
Go <u>B</u> ottom			Searc	<u>h</u>		
	Description		Turne	Deleses		
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24210000	Retainer for A	LA001	LC		0.000000 242000	000:24210000
24220000	Retainer for S		LC		0.000000 242000	
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	ainer Accounts ng the Retained
Accounting Transaction (New Transaction)	Ămount 🛛
Transaction # 000010 Type A Date 02/10/2016 Entered By Description Pre-payment to Retainer AccountNo ALA001	Credit Card [None] + Tax Amt 0.00 Approval Code
Cust / Vend Alaska Cyclery	Total Charge 0.00
Related Doc#	Debit: 1,000.00 Credit: 1,000.00 Comments
Task Sub-Task	Account # Description Amount 10200000 BANK CHECKING ACCOUNT 1,000.00
3a. When the customer sends the pre-payment, enter an A-type accounting transaction. Debit your Checking Account	
BALANCED	NS New Account Change Account Remove Account
Junks	<u>Save</u> <u>Cancel</u>
Transact (c:\pcmrpw_900\transact.dbf)	Record: 8/8 Record Unlocked NUM
Modules Loois Uptional Contiduration Manua	ainer Accounts ng the Retained
	Amount
Transaction #         000010         Type         A           Date         02/10/2016         Entered By	Check # 0423
Description Pre-payment to Retainer	Credit Card [None]  Tax Amt 0.00 Assessed Outs
AccountNo ALA001 Cust / Vend Alaska Cyclery	Tax Amt 0.00 Approval Code Total Charge 0.00
Related Doc#	Debit: 1,000.00 Credit: 1,000.00 Comments
Vendor Invoice#	Account # Description Amount Amount Account # Description Amount Amount Account # Description Amount Amount Account # Description Amount Account # Description Amount Amount Account # Description Account # Description Account # Description Amount Account # Description Account # Des
11	
3b and credit their Retainer	
Account.	
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	Women's, 1108		Tax Amt		0.00 Approval	Code
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Related Doc#	100000	<u>D</u> ebit: 120.00	Credit	: 120.00	Comments	1
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Salesman						
Commission % 0.00	]					
Extended Sale Pric	- 12					
Terms Discour						[] ]
4. When you invoice						
an S-type transaction						
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BALANCED						
Links	If by some chance				Save	Cancel
	the invoice, select and Debit the retai				<u></u>	
		nk account.			Г	
Debdetail				Exclusive	e	
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pc/MRP for Windows - Versio Modules Tools Optional Configured C	- Doto	iner Accou	nts			
	- Doto	iner Accou	nts			
Modules Tools Optional Configu	ration Manua Reta	<mark>iner Accou</mark>	nts			
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Modules Tools Optional Configu	ration Manua Reta	on Invoice#		Balance 1000.00	DebitAmount 0.00	
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Modules Tools Optional Configu Retainer for ALA001 (24210) Date Trans# Compar 02/10/2016 000010 Alaska C	ration Manua Reta	on Invoice# LA001 NONE	Receive# NONE	1000.00	0.00	X CreditAmount ▲ 1000.00000
Modules Tools Optional Configu Retainer for ALA001 (24210) Date Trans# Compar 02/10/2016 000010 Alaska C	ration Manua Reta	Drill-down report	Receive# NONE NONE	1000.00 880.00	0.00 120.00	X CreditAmount ▲ 1000.00000
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# **15.1 Settings and Utilities**

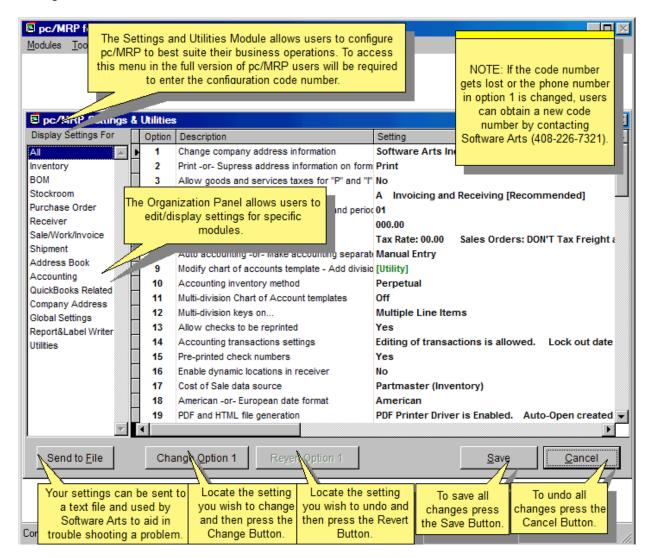
#### 15.1.1 Overview

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:

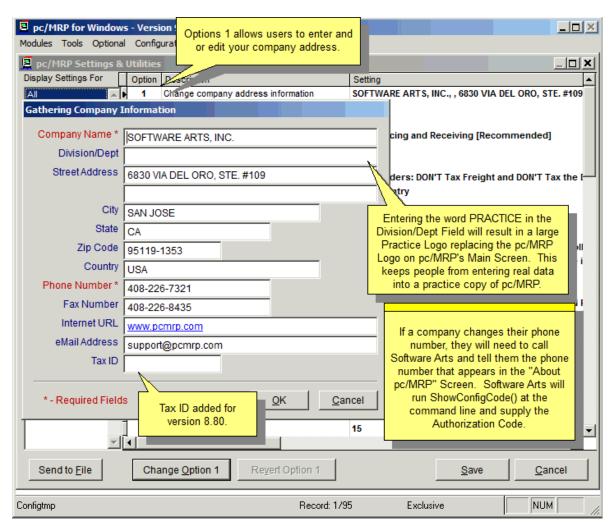


Depending on the utility/option chosen, users will be presented with a **Run Utility** or **Change Option** button. Once an option has been edited (the new values are displayed in red), users can press the **Save** button to save all changes. To undo changes to the option chosen, click the **Revert Option**. 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.

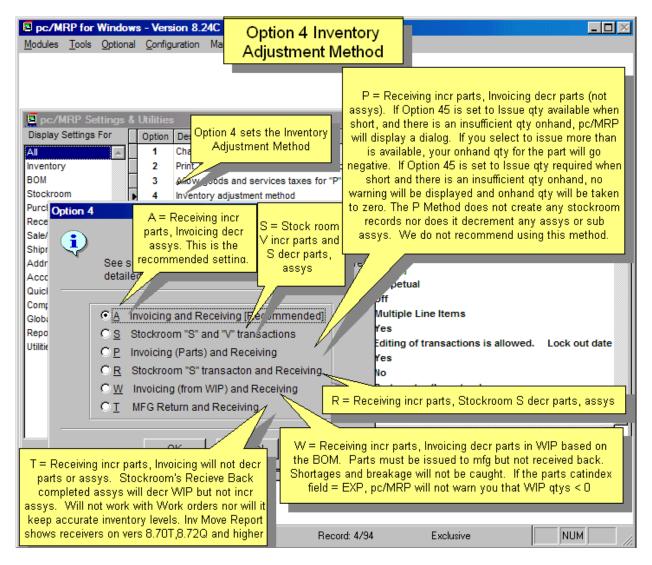
Software Arts, Inc suggests that companies create a test copy of pc/MRP for practice, testing and training purposes. To clearly distinguish between the test copy and the production copy, we suggest that you enter the word PRACTICE in the Division/Dept field of the test copy. This will result in a large 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.



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.

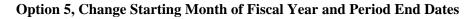
**S**, allows the stock room module to adjust the onhand quantities. Issuing parts to shipping and receiving parts from receiving will adjust the onhand quantities. <u>No stockroom transactions are created</u>.

**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       ↓       ↓         ▲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**

FOX C:\V875 (User: KK)			
Modules Tools Optional Conf	guration Manual Devel	oper Help	
🚊 pc/MRP Settings & Utilitie	s		
Display Settings For Option	Description	Setting	
Al A	Change company addre	RAD TECH, COHES	VE TECHNOLOGIES, 123 MAIN STREET, , RICHLAND, CA
Inventory 2	Print -or- Supress addre	Print	
BOM 3	Allow goods and servic	e No	
Stockroom 4	Inventory adjustment me	A Invoicing and	Receiving [Recommended]
Purchase Order 5	Change starting month of	01	
Receiver 6	Change average hourly	015.00	
Sale/Work/Invoice 7	Sales Tax settings	Sales Orders: DOI	I'T Tax Freight and DON'T Tax the Discount Purchas
A Option 7			
		Fre	ight and discounts are
c 👔 These setting af	fect the manner in whi		cable in some states.
c 🖓 performs Sales	Tax calculations.		
c			
F Sales Order Creation D	efaults	L.	ons is allowed. Lock out date is
u Ereid	ht is Taxable		
	ount is Taxable		
	ount is Taxable		
		Driver	
Purchase Order Creati	on Defaults	Meth	For more information about Taxes see "14.1.12 Tax
Ereio	ht is Taxable		Code Entity" and "4.2.8 Enter a New Address,
			Step 5, Enter Company Contact and Tax
	ount is Taxable		Information" in the Manual.
<u>O</u> K	<u>C</u> ancel		
Send to File XO Ch	ange <u>O</u> ption 7 R	evert Option 7	Note: In ordier versions. Ontion 7 was used to get
			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		Record: 7/	

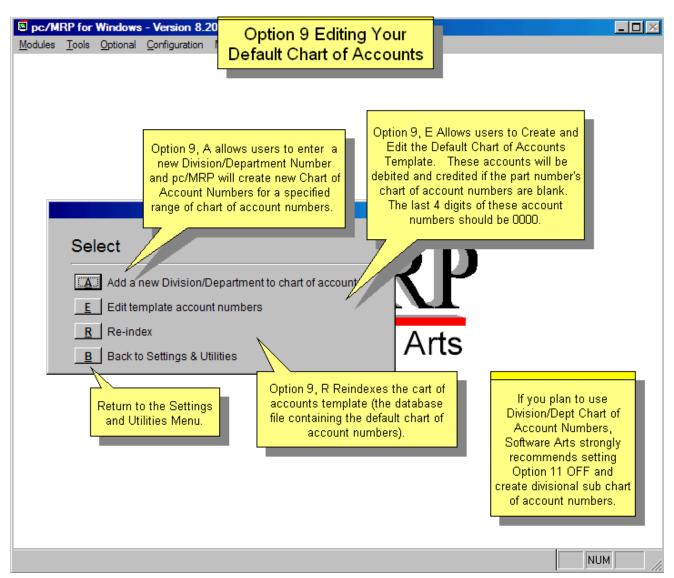
#### **Option 8, Select Automatic Accounting or Manual Entry**

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.

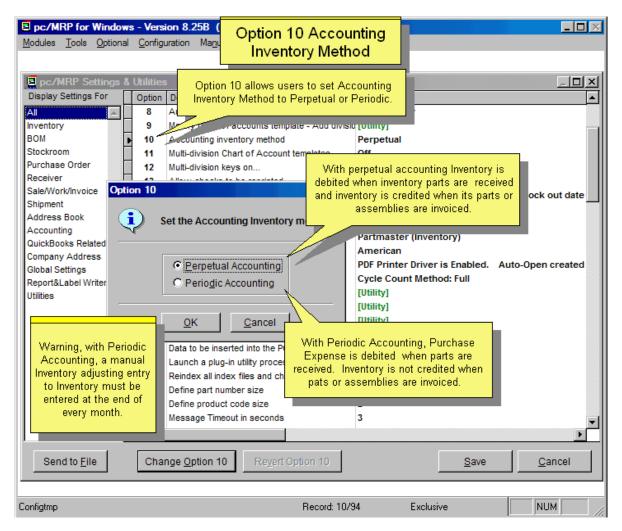
Re-index the account template dbf file:

This option allows you to re-index the account template dbf file.

pc/MRP will default to these	9.000 Option 9 Edit	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	1
	CostOfGoodsSold	40150000	
	CostOfSalesLabor	50100000	1
If the part numbers that you are invoicing have no set income acct.	CreditCardProcessing	10200000	
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	
	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	ØverheadExpense	50150000	credit card processing company transfers
invoice is posted and inside labor	/PrimaryChkAct	10200000	the money to your bank account. This is not your company's credit card account
i part humbers are included in the im-	//PurchaseDiscount	41900000	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 🔪
might be better to use a different wage expense	SalesTaxLiability	21100000	i 🔨
account number when making	SdiLiability	22130000	
summary payroll entries.	SsecMediPayrollExpense	51100000	Rounding Variances, 29200000, QN,
		22140000	Credit, was added to versions 8.80A and higher. pc/MRP will automatically Debit
If Option 10 is set to Perpetual, receive expense/asset acct, Default Inventory		Þ	this account for a +/- amount if the debits
If Option 10 is set to Perpetual or Period		<u>C</u> ancel	# credits due to rounding errors for the accounts entered automatically.
with no expense/acct, Default Operatin	ng Exp will be debited.		Accounts entered manually whose debits
If Option 10 is set to Periodic I, receive expense/acct, Default Purchase Acct		cord: 5/23 F	do not match credits will give a warning but not trigger Rounding Variances.

**Note: R**ounding Variances, 29200000, QN, Credit, was added to versions 8.80A and higher. pc/MRP will automatically Debit this account for a +/- amount if the debits do not match the 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. In prior versions the user had to manually enter an adjusting enty.

#### **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.

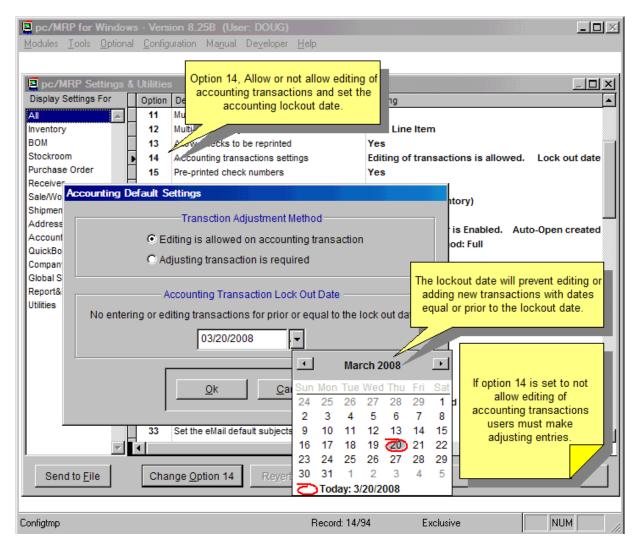
#### **Option 12, Un-assigned**

#### **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) (version **8.90A** and higher).

#### **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)	
Modules Tools Optional Configuration	n Manual Developer Help	
Display Settings For Option De	Option 19 allows an administrator to enable or disable PDF and HTML form generation.	ventory)
	er an -or- European date format American	
		ver is Enabled. Auto-Open created
Stockroom 20 Cy		or Disable PDF
Purchase Order 21 PD		generation.
Receiver       21         Sale/Work/Invoice       23         Shipment       24         Address Book       25         Accounting       26         QuickBooks Related       27         Company Address       28         Report&Label Writer       30         Utilities       31         32       33	PDF Printer Driver PDF Printer Driver © Enabled © Disable this workstation © Disable <u>a</u> ll workstations ✓ Auto-open created PDF files HTML Form Generation HTML Printer Driver HTML Printer Driver C Ena <u>b</u> led © Disable <u>a</u> ll workstations MTML Printer Driver © Ena <u>b</u> led © Disable all <u>w</u> orkstations	Allow users the option to auto open the PDF files they created. It module to change access right If users have any difficulties with the HTML 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 th	) play the file structure for a selected DE [Utility]	reports, change the settings to Code Based Generation. ▼
print driver is not installed and if either print driver is enabled, pc/MRP will attempt install the print driver.	on 19 Revert Option 19	Save Cancel
L	Record: 19/94 Exc	clusive NUM ///

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 Class C: onhand qtys. 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.

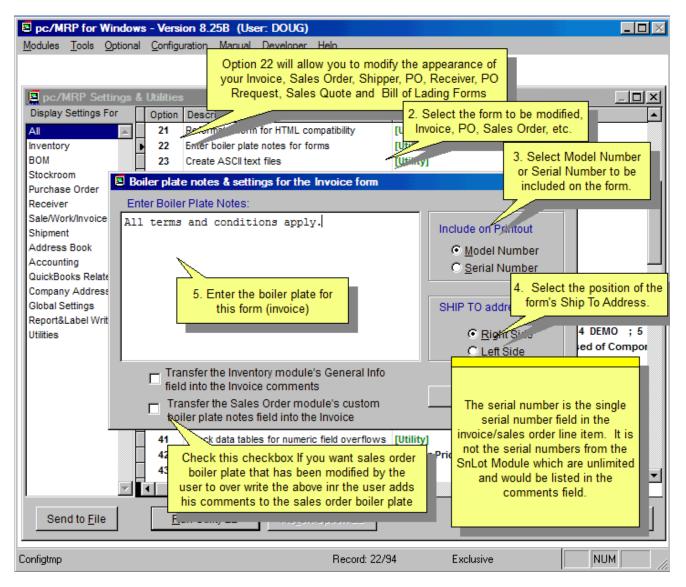
If you changed the class definitions, you must run Inventory, Physical Inventory, Cycle Count, and "Automatically fill classes for all parts" to reset part classes.

#### **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. Versions **8.80C**, **8.81D** and above default 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

Image: Contraction of the second of the s	SHEEK.	\ <b>¥905 (User: DOUG)</b> ools Optional Configuration	Configuration PO Sett		>			
Display Settings For       Option       Description       Setting         All       22       Enter bolier plate notes for forms       [Utility]         Inventory       23       Create ASCII text files       [Utility]         BOM       24       Report Writer (Modify Report/Label/Form)       [Utility]         Stockroom       25       Data to be inserted into the PO's "Entered By" fild Manually entered: User login       Duplicated: Buyer         Purchas       Option 25       Populate the ENTERED BY field on POs with       automatically be populated from:       User user automatically be populated from:         Address       Account       Manually entered:       User Login name       If the user automatically be populated from:       IEMO ; 5 IIICOMP ;         Global S       Duplicated:       User Login name       If the user automatically creates       PO's, the Entered By Field will automatically be populated from:       IEMO ; 5 IIICOMP ;         Report8       Duplicated:       User Login name       If the user automatically creates       PO's, the Entered By Field will automatically creates         Vitilites       Duplicated:       User Login name       If the user automatically creates       Pos, the Entered By Field will automatically be populated from:         Automatically created:       User Login name       If the user automatically creates       Portion 2.3, and 4 r	E pc/MRP Settings & Utilities							
Piventory       23       Create ASCII text files       [Utility]         BOM       24       Report Writer (Modify Report/Label/Form)       [Utility]         Stockroom       25       Data to be inserted into the PO's "Entered By" fildmually entered: User login       Duplicated: Buyer         Purchas       Gottion 25       If the user manually creates a PO, the Entered By Field will automatically be populated from:       If the user manually creates a PO, the Entered By Field will automatically be populated from:         Address       Accessed       If the user automatically be populated from:       IDEMO ; 5 IIICOMP ;:         Gobal S       ReportSi       Duplicated:       C User Login name       If the user automatically be populated from:         Utilities       Duplicated:       C User Login name       If the user automatically creates       POs, the Entered By Field will automatically be populated from:       IDEMO ; 5 IIICOMP ;:         Itilities       Duplicated:       C User Login name       If the user automatically creates       POs, the Entered By Field will automatically be populated from:       IDEMO ; 5 IIICOMP ;:         Automatically created:       C User Login name       If the user automatically be populated from:       IDEMO ; 5 IIICOMP ;:         Vendor Price List       Prompt for the at import Cost: Aver       Options 2,3, and 4 require       Version 9,05B and higher. The radio buthons are set to the default selections, dup	Display Se	ttings For Option Descrip	tion	Setting				
BOM       24       Report Writer (Modify Report/Label/Form)       Utility]         Stockroom       25       Data to be inserted into the PO's "Entered By" fildanually entered: User login       Duplicated: Buyer         Purchas       If the user manually creates a PO, the Entered By Field will automatically be populated from:       If the user duplicates a PO, the Entered By Field will automatically be populated from:       Detworks         Address       Account       If the user duplicates a PO, the Entered By Field will automatically be populated from:       DEMO ; 5 IIICOMP ;         Global S       Report8       Duplicated:       User Login name       If the user automatically creates PO's, the Entered By Field will automatically creates       PO's, the Entered By Field will automatically creates         Buyer       If the user automatically creates       PO's, the Entered By Field will automatically creates       PO's, the Entered By Field will automatically creates         Willities       Uplicated:       User Login name       If the user automatically creates       PO's, the Entered By Field will automatically creates         Automatically created:       User Login name       If the user automatically creates       PO's, the Entered By Field will automatically creates         Automatically created:       User Login name       If the user automatically creates       PO's, the Entered By Field will automatically creates         Automatically created:       User Login name </td <td>All</td> <td>22 Enter bo</td> <td>iler plate notes for forms</td> <td>[Utility]</td> <td></td>	All	22 Enter bo	iler plate notes for forms	[Utility]				
Stockroom       25       Data to be inserted into the PO's "Entered By" fildanually entered: User login       Duplicated: Buyer         Purchas       Option 25       Freedew       If the user manually creates a PO, the Entered By Field will automatically be populated from:       Populate the ENTERED BY field on POs with Account         Account       Manually entered:       User Login name       If the user automatically be populated from:       DEMO ; 5 IIICOMP ; 1         Global S       Report&       Duplicated:       User Login name       If the user automatically creates       POs, the Entered By Field will automatically creates         Populate the ENTERED BY field on POs with       Buyer       If the user automatically creates       PO, the Entered By Field will automatically creates         Report&       Duplicated:       User Login name       If the user automatically creates       POs, the Entered By Field will automatically creates         Populate the diting       Outiction       If the user automatically creates       POs, the Entered By Field will automatically creates         Pos, the Entered By Field will automatically creates       POs, the Entered By Field will automatically creates       POs, the Entered By Field will automatically creates         Vendor Price List       Prompt for the ar       Prompt for the ar       Prompt for the ar         QK       Cancel       Allow or not allow the Entered       Py Field will automatically creat	Inventory	23 Create	ASCII text files	[Utility]				
Purchas Received SaleWo Shipmen Address Account QuickBo Company Global S Report&I Utilities Populate the ENTERED BY field on POs with Address Account QuickBo Company Global S Report&I Utilities Duplicated: Duplicated: C User Login name C	BOM	24 Report	Writer (Modify Report/Label/Form	n) <b>[Utility]</b>				
Receiver       If the user manually creates a PO, the Entered By Field will automatically be populated from:         SaleWo       If the user duplicates a PO, the Entered By Field will automatically be populated from:         Address       Manually entered:       User Login name         Global S       Duplicated:       User Login name         Report&       Outplicated:       User Login name         Buyer       If the user automatically creates         Pos, the Entered By Field will automatically be populated from:         Automatically created:       User Login name         Buyer       If the user automatically creates         Pos, the Entered By Field will automatically creates       Pos, the Entered By Field will automatically be populated from:         Automatically created:       User Login name       If the user automatically creates         Pos, the Entered By Field will automatically creates       Pos, the Entered By Field will automatically creates         Automatically created:       User Login name       If the user automatically creates         Pos, the Entered By Field will automatically creates       Pos, the Entered By Field will automatically creates         QK       Cancel			be inserted into the PO's "Entere	d By" fi Manually entere	ed: User login Duplicated: Buyer			
SaleWo       Populate the ENTERED BY field on POs with Address Account GuickBo       PO, the Entered By Field will automatically be populated from: (or user duplicates a PO, the Entered By Field will automatically be populated from: Global S Report⁢       DetMo ; 5 IIICOMP ; ' automatically be populated from: Field will automatically be populated from: Field will automatically creates POs, the Entered By Field will automatically be populated from: Field will automatically be populated from: Field will automatically be populated from: POS, the Entered By Field will automatically be populated from: Field buttoms are set to the default selections, duplicating pc/MRP original behavior prior to version 9.05B stored the single setting in MUserLog.fig.	Purchas	Option 25		16.0				
Shipmen Address Account QuickBo Company Global S Report&i       Manually entered:       ○ User Login name ○ Buyer       If the user duplicates a PO, the Entered By Field will automatically be populated from:       DEMO ; 5 IIICOMP ; e IIOT hidden. PC         Utilities       Duplicated:       ○ User Login name ○ Buyer       If the user automatically creates POs, the Entered By Field will automatically be populated from:       IDEMO ; 5 IIICOMP ; e IIOT hidden. PC         Automatically created:       ○ User Login name ○ Buyer       If the user automatically creates POs, the Entered By Field will automatically be populated from:         Automatically created:       ○ User Login name ○ Buyer       Options 2,3,and 4 require Version 9.05B and higher. The radio buttons are set to the default selections, duplicating pc/MRP original behavior prior to version 9.05B. Version 9.05B and higher stores the settings in EnterBy.mem.         Send to Eile       XIII       Change Option 25       Reyert Option 25       Reyert Option 25	Receiver	xo						
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#### **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.

#### **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. (Versions **8.94** and below were limited to a maximum length of 15.)

#### **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**

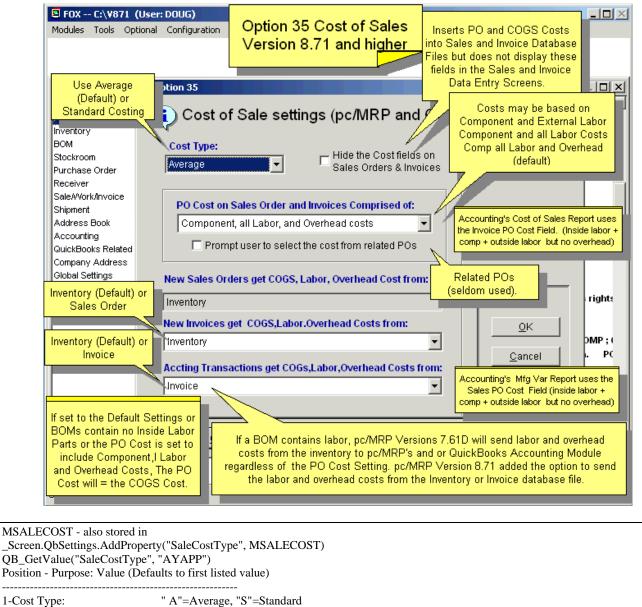
Checks the vendor ID codes listed for every part number in inventory. It will display or print a "Vendor ID Error Log" report if it finds any vendors in the inventory records where the ID cannot be found in the Address Book. You should then edit the inventory files (and insert valid vendors).

#### **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".



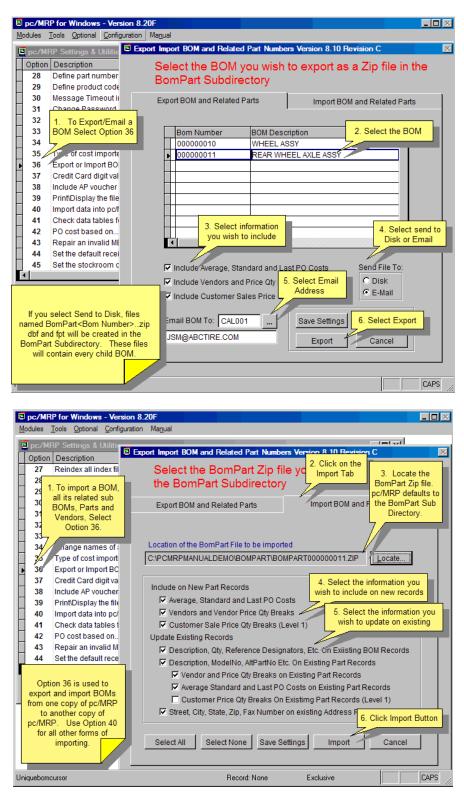
I-Cost Type: " A"=Average, "S"=Standard
2-Update Costs when invoicing: "Y"=Yes, "N"=No
3-PO cost comprised of $"A" = All costs$
"P" = Component and External Labor costs
"L" = Component and all Labor costs
4 - Hide cost/Prompt for Rel PO :"P" = Show costs without prompt
[formerly CONFIGDM-45] "R" = Show 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.

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#### **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**

IFOX C:\V896 (User: DOI Modules Tools Optional Cor		42 Purchase r Defaults	
pc/MRP Settings & U 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	Option Descrip Option 42 allows 36 Export to be automatic 37 Credit of from the "Vend	d on <b>V</b>	PO uto Format: On Vendor Price List is the commended choice. If the endor price list is empty, the Std Cost will be used. Version 8.96 and above Cos
	Initial Purchase Quantity	C Standard / Order I Always 1 Cancel Defa	
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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. (For versions **8.95** and lower, the default order quantity is always 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 Express address ASCII Tile   Utility							
Part Incrementation Method		×					
xlo 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 fou	r parts entered in each method.						
Prod Code Suffix	Prod Code Suffix	Method to Use:					
First HD000001-00 Method LS000001-00	Second HD000001-00 Method LS000002-00	O Second Method					
LS000002-00 BG000001-00	LS000003-00 BG000004-00	Ok Cancel					

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

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.

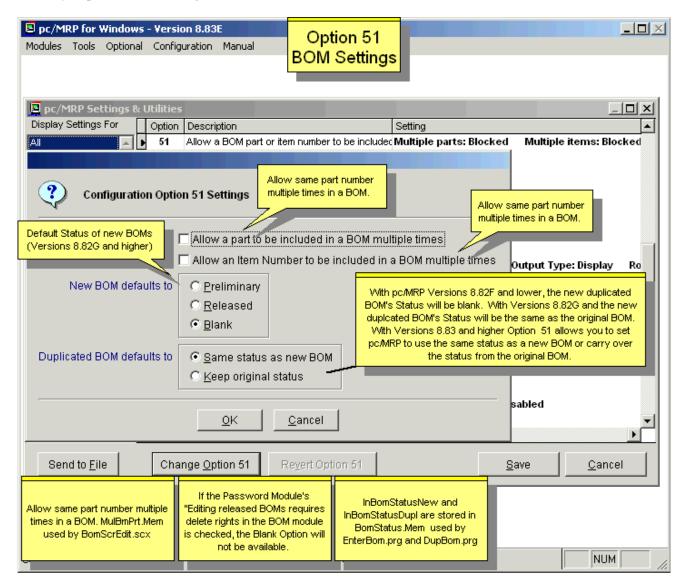
#### **Option 50, Set the Average Cost Calculation to Include Area(s):**

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

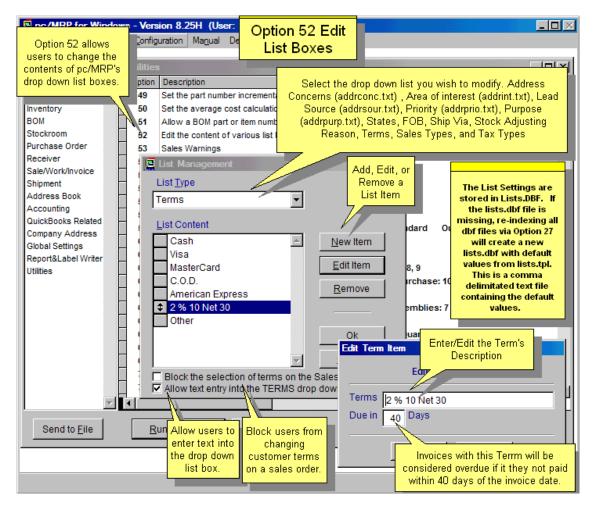
Option 51 allows users to add the same part number and/or item number to the same BOM multiple times. **8.82N**, **8.83D** and higher: Users can configure the bomstatus of a new BOM that is entered as a new BOM, or created by duplicated an existing BOM.



#### **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.

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	pc/MRP Settings & l		3 sets Sales⊫ e warning mes				Salescr.F	inishValidatio	on()
Dis	play Settings For	Option			Setting				
BC Sti Pu	ventory DM ockroom urchase Order eceiver	49Set the p50Set the a51Allow a52Edit the a	oart number incre average cost cal	ix size and default ementation method culation to include i number to be incl is list boxes	invoices + sales oro found in c	open : der exc custom	e displayed sales orders eeds the cre er's credit lir address rec	+ current edit limit nit in the	: Blo vera:
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(	© Warn if the cu ○ Warn ⓒ Block → cha	stomer PO# is u	used in other s	ales orders for th	ne <mark> same cus</mark>		voiced ,	-R' STOCKI Labor: 7	Lead
	Override <u>P</u> as		aht cost(incomin	<u>Ok</u>	<u>C</u> ancel sale <b>0.00</b> %	or w	G and above ork order tha r invoiced is :	t has beer	n issued
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Configtmp	p			Record: 48/9	95	Exclusiv	ve		

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. This feature is available since version **8.95G**, earlier versions simply warned the user. Deleting such SO/WO is blocked since 8.95G, 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.**

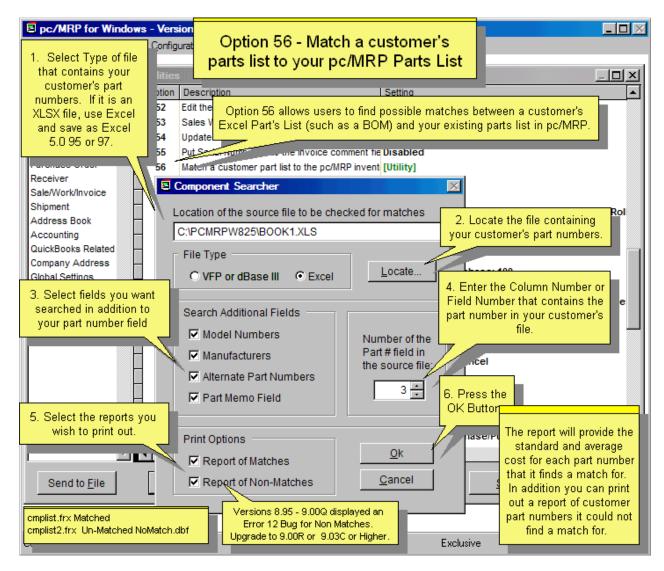
This Option will only be available if the optional Serial/Lot Number Module is activated.

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:\Y875 (User: DOU Modules Tools Optional Cor	figuration Option 55	- SnLot Numbe d into Invoices	
pc/MRP Settings & Ut 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	Option       Description         48       S       Option 55 can be sinsert serial numbers of component serial numbers of component serial invoice line item of component serial serial numbers of component series of componen	mbers and sub numbers into the comments field. Warn ers and or BOM des [Utilit invoice comment fie Dyna ers into Invoice comme ert into the comment in the rt into the comment for pe of Serial Numbers to	onfigured for Suffixes Method , Area2, Area3, Area7 ble parts: Allowed Multiple items: Blo /] n: over cr lity] amically f into the SnLot #s permanently into the comments when the invoice is created. Good for historical record. ments utput Type: None P No 'R' stockroom r 100
pc/MRP's Optional Serial Lot Number Module must be activated for this option to work.	00       0    <	rt sub-components you must Issue and not create a Then all items	versions 8.88 and higher.

#### 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.

#### **Option 60, Set the Labor Overhead Mark-up Percentage**

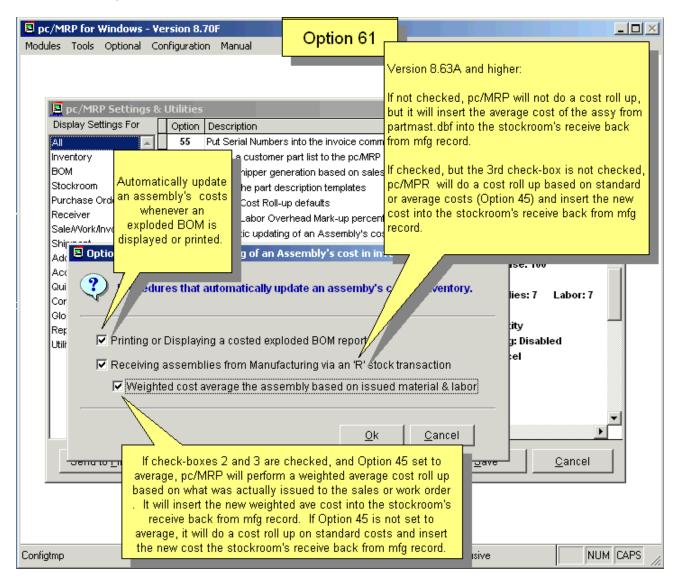
Option 60 allows users to set the labor overhead percentage. This overhead percentage would be used if labor and overhead were to be included when running a cost roll up. For example, if you have 1-hour of inside labor in a BOM at \$10.00/hr, and the labor Overhead Percentage equals 10%, total labor 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.



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

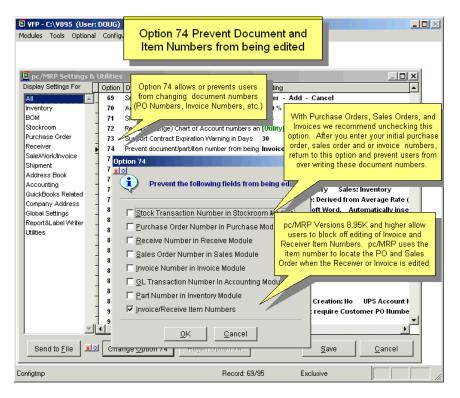
Option 72 allows users to change one ore more chart of account numbers. This utility will then propagate the change in every necessary pc/MRP table. (Historic accounting transactions, account templates, backup chart of accounts, inventory, invoice, sales, purchase orders, receivers, sales quotes and 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("999999")).

#### **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.

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**Note:** The Original Date Required is populated when the purchase order was entered (default). pc/MRP Versions **8.81E** and higher 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. Set DBF File Output Format**

Option 86 sets the output of a report sent to DBF, to either dBase III, Visual FoxPro Format or Ask.

#### **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       Description       Setting         73       Support Contract Expiration Warning in Days       30         74       Prevent document/part number from being edited       Utility]         75       Repair Duplicate document numbers       [Utility]         76       Automatically pre-seed the Physical Inventory counts Yes       [Utility]         77       Purge unneeded Revision Update folders from disk. [Utility]         78       Select the source for the division field on Purchase & Purchase: Inventory       Sales: Inventory         79       Get labor hours from employees time sheets when r No       Labor Rate: Derived from Average Rate (Option 6)         80       Set the Logbook Options       Prefers Mircosoft Word. Automatically inserts logbook h         81       Salesman & Commission source setting       Shipment Module Settings (Option 89)         82       Mark SO/WOS with an ISSUE SUBS ONL       Image: Shipment Module Settings (Option 89)         83       Add, Edit, or Delete the Terms & Condition       Image: Shipment module         84       Option 89 allows users to set the UPS Interface Settings.       This module can be configured to automatically generate a shipment document whenever an Invoice is created.         88       Interface Settings       Shipment Creation:       * If checked, after creating invoice, the shipper will be op invoice, the shipper will be op invoice, the shipper wi				
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89 Shipment module settings     C Manual Generation     C Automatic Generation				
Automatic Generation				
Open the shipment for editing after generation.				
Open the shipment for <u>e</u> diting after generation.				
Auto will create and display shipper when an invoice is created. Manual will create and display a shipper when you click on Modules, Shipper, New and Selecting an Invoice.				
Change Option 89 Revert Option 89  * If the shipper is not opened pc/MRP would select the default package type found in Option 52  sive NUM				

#### **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 (8.90Q, 8.95G and above) 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.

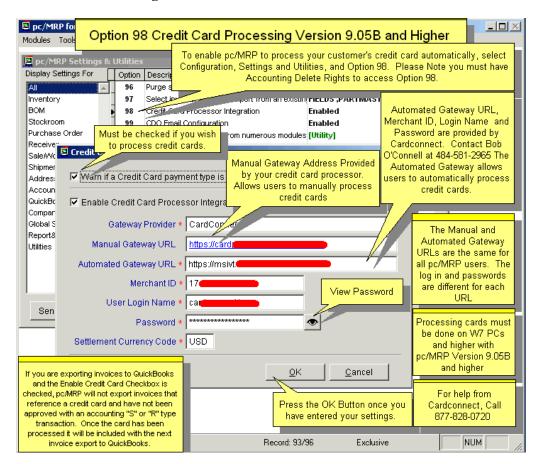
#### **Option 96. Purge Saved User Related Settings, Queries and Lists**

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.

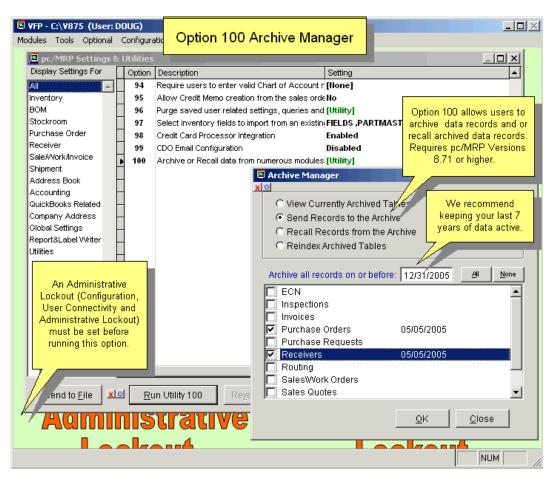
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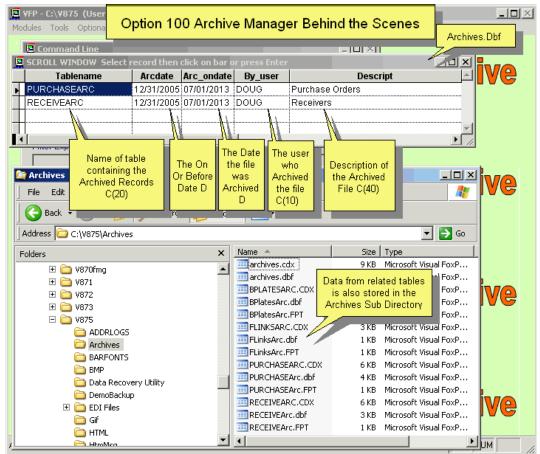
**Option 98. Credit Card Processor Integration.** 



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

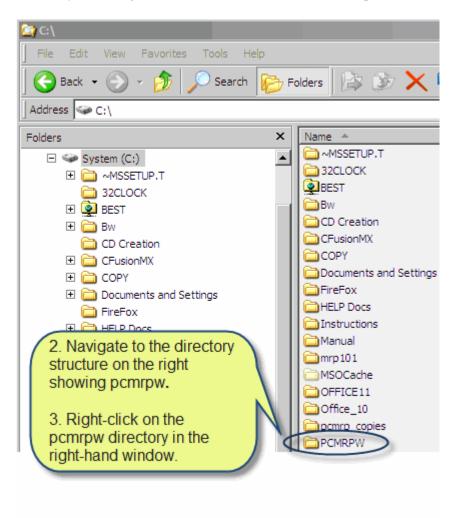
pc/MRP's directory is self contained. That is, pc/MRP runs entirely within its directory with no links to the Windows Registry or any '.ini' files. If your IT department allows you to make a backup of the pc/MRP directory, and you know where the directory is located, navigate to that directory and follow these instructions.

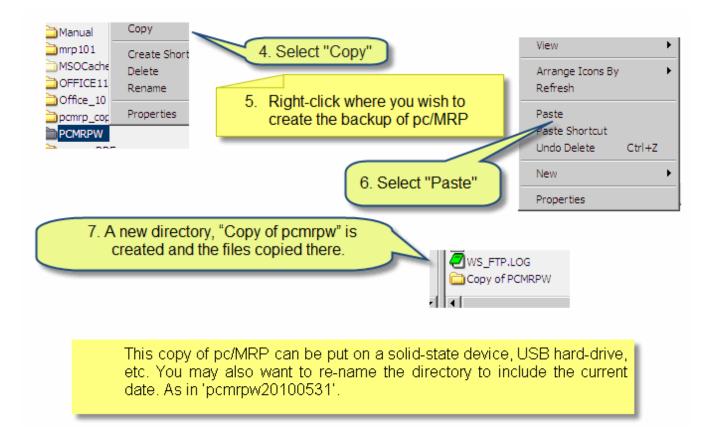
These instructions are referencing a "C:\" drive, yours may be different!

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 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.
- 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.

# **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 revision, standard reports might be overwritten but custom reports will not be 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     0	
DAGENO PAGENO INVOICE REPORT	
1 SALASH. ITEH. ST. GRUESTLF. PARTING	Posted Hodela
▲ Page Header	
0	
Group Header 1:INVOICENO	
0 5080   ITEERIN SAN LEFT (DATES PARTNO CUSTCORP CUSTPHONE ] DESCRIPT	P( MODELNO
O : : : : : : : : : : : : : : : : :	
A Page Footer	
Summary	T N
	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:	
LEFT(descript, 18)	
Object position	
Eloat     Fix relative to top of band	
C Fix relative to <u>b</u> ottom of band	
Stretch with overflow	
Size and position in layout From page top: Height:	
2.083 in + 0.166 in +	
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
			Ŧ	Cancel
Functions				Verify
<u>S</u> tring:	<u>M</u> at	h:		<u>veniy</u>
"text"	^		-	Options
Logical:	_ <u>D</u> ati	e:	_	
0	{da	ate}	•	
	· ·			
<u>F</u> ields:		Variables:		
	<b>A</b>	mdefault	C 🗖	
		mlevel	N 🛄	
		mpnsize	N	
		mchoice	N	
		configdm	C	
		configps	C	
		configco	С	
	Ŧ	mtimeout	Ν 🚽	

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		
1700 ·	<u>R</u> eport <u>W</u> indow <u>H</u> elp	
🖪 Report Designer - parts\$.f	rx	- D ×
0 50 100 100	150 200 250 300 350 400	450 500 550 6
<sup>0</sup> PAGE NO. PAGE DATE()	PARTMASTER REF	PORT
MHEADER		<u></u>
PART NUMBER	PESCRIPTION	TOTAL OTY
Page Header		
PARTNO	DESCRIPT	ONHAND+AREA2QTY+. ST
🔺 Detail		
🔺 Page Footer		
	Total:	ONHAND+AREA2OTY+ S
Summary		
		D Z
		NUM //

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:

gc/MRP for W	ndows	
<u>F</u> ile <u>E</u> dit <u>V</u> iew F	ormat <u>I</u> ools <u>R</u> eport <u>W</u> indow <u>H</u> elp	
(E 🖳 🛠 🧐		
📓 Report Desig	ner - cuspar01.frx	
0	<u>100  150  200  250  300  350  400  450  500   _</u>	E
<sup>0</sup> <b>PAGE</b> NO. P. <b>DATE()</b>	PARTMASTER REPORT	
5 MHEADER		
PART NUMB		L QTX
A Page Header		· : · :
PARTNO	]DESCRIPT]ONHAND+AR	EA2QTY+ S'
🔄 🔺 Detail		
🔺 🔺 Page Footer		
	Total: ONHAND+AR	EA2QTY+ 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	
<u>File Edit V</u> iew F <u>o</u> rmat <u>T</u> ools <u>R</u> eport <u>W</u> indow <u>H</u> elp	
E ª ?? <>	
Report Designer - cuspar01.frx	
0 1 50 1 100 1 150 200 1 250 1 300 1 350 1 400 1	450 <u>500 500 550 </u> €
PAGE NO. PAGE PARTMASTER REPOR	<u>r</u>
5 MHEADER	
PART NUMBER CLASSIFICATION	TOTAL QTY
PARTNOCLASS	ONHAND+AREA2QTY+ S'
A Page Footer	
	ONHAND+AREA2QTY+.S'
Summary	
	<u> </u>
	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" printouts and the UNCSINW report is the report form used for 14" x 11" printouts.

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\PCMRPW910\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 (including comments)	bomtemp.dbf
PICBOM	standard pick list exploded and single level	bomtemp.dbf
PICBSN	standard pick list with available serial numbers	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.dbf
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 Exp & Revenue report	chartacc.dbf
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	Reports 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*	custom Balance Sheet, Liability & Equity	chartacc.dbf
CPRCRBIT*		
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	( cmp )
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	physical inventory count sheet	partmast.dbf
BLNKINVW	wide carriage physical inventory count sheet	partmast.dbf
COSTINV	physical inventory variance report	partmast.dbf
CYCLECNT	cycle count standard form	cyctmp.dbf
CYCLEDIFFCNT	differential cycle count form	cyctmp.dbf
DISPPART	inventory find part report	partmast.dbf
PARMOV	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	uncosted wide carriage report	partmast.dbf
PARUSAGE	inventory usage report	movement.dbf
PIH	physical inventory history report	pih.dbf
PRICELIS	price list report	partmast.dbf
Custom Part	master Reports	
CUSPAR*	custom inventory/movement/usage report	partmast.dbf
CBLNKINV*	custom physical inventory count sheet	partmast.dbf
CUSPIH*	custom physical inventory history report	pih.dbf
CUSTPHY	custom physical inventory variance report	partmast.dbf
CUSTCYC*	custom cycle count form (full or differential)	cyctmp.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 Partnumber	Sopocursor
Standard Sa	ales/Shipper Form	
SALE	shaded sales order form	sales.dbf
SALEB	boxed sales order form	sales.dbf
SHIPPER	shaded shipper form	sales.dbf
SHIPPERB	boxed shipper form	sales.dbf
Custom Work	custom work order and sales order form	sales.dbf
CSHIP*	custom shipper form	sales.dbf
	es Order Reports	
CUSSO*	custom sales reports	sales.dbf
CUSTSO*		
Custom Work	Order Reports	
CUSWO* CUSTWO*	custom work order reports	sales.dbf
		1

# **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	shaded 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 in pc/MRP.

#### **Shipment Module**

Standard Sh	ipment 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 Pu	rchase 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	base 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.

	P, Min Max, Infinite Bucket Reports	
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	<pre>tempshrt.dbf action.dbf, mrppart,mrpso routing, mrpstock,</pre>
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* CUSTMRP*	custom MRP report found in infinite bucket	action.dbf

Note: Most Infinite Bucket MRP "All for a ..." reports use the action.dbf, mrppart.dbf, and mrpso.dbf.

#### **Address Book Module**

Standard Add	dress Book Report	
ADDRESS	standard address book report	addrbook.dbf
ADDRESSW	standard wide carriage address book report	addrbook.dbf
Custom Addre	ess 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	<pre>bomlist-cursor partmast.dbf bom.dbf</pre>
CNVSBOM	standard stockroom I transaction report	bomtemp.dbf
ISUSHORT	standard stockroom P and shippable report (no custom report is offered for this report)	stocktra.dbf
MAKEUPWO	standard stockroom P transaction by W/O	stocktra.dbf
SKTRCMFG	standard receive from manufacturing report	stockrtra.dbf
STKISSSHRT_PO	Standard stock issued report with POs	Stockrtra.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 only, include dedicated WO	stkcursor
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 Stockr	coom 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	standard consolidated multiple BOM report	makecons.dbf
MAKECONS	standard consolidated single BOM report	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

Stanuara 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.			
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 Se	rial/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 Routin	ng 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 EC	N Form	
ECN	standard inspection list form	ecn.dbf
Custom ECN	Form	
CECN	custom inspection form	ecn.dbf

#### **QuickBooks Module**

Standard QuickBooks Export Form		
QBEXPORT	standard Invoice/Receiving Export report form	
Custom QuickBo	ooks Export Form	
CUSOBEX	custom Invoice/Receiving Export report form	

#### **Audit Trail Module**

#### Standard Audit Trail Reports

TRAIL	Standard Component Matches report form	temp.dbf
RAILBOMCOST	Standard Component 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

#### 15.4.3.1 List of Labels

#### LABEL(.LBX) LABEL DESCRIPTION

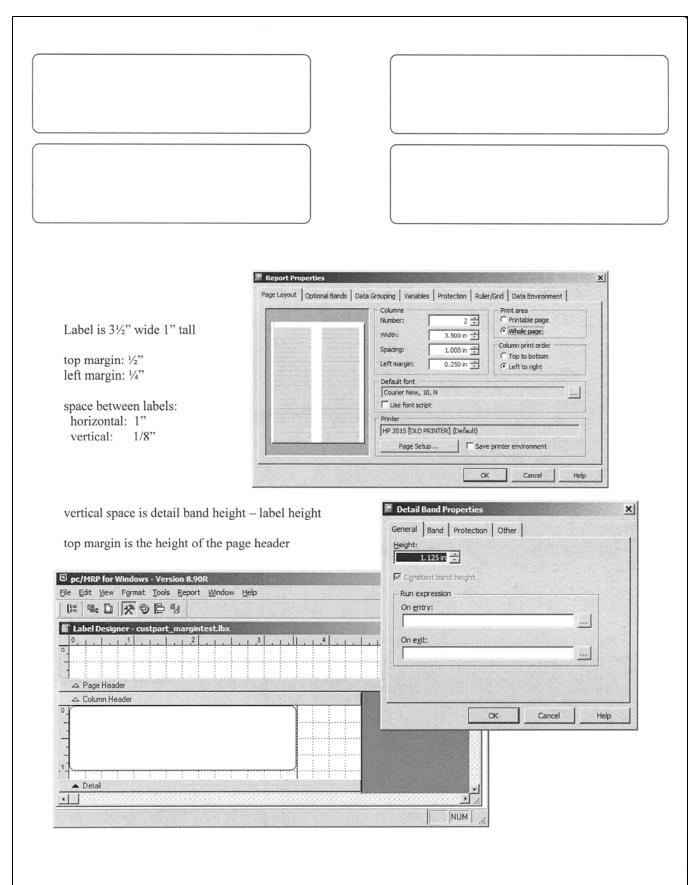
#### DBF FILE USED

	abels (also see Section 5.1.8)		
PARLABBAR	Standard parts labels w/barcode for one part TmpTab.		
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.		
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	
Assembly La	bels		
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	bol s		
RECLABEL	Inventory parts labels for a receiver (dot matrix)	receive.dbf	
RECLAB2X	Inventory parts labels for a receiver (laser)	receive.dbf	
RECLABBOX	Receiver parts labels for a receiver RoHs Checkbox	Labprnt.dbf	
RECLABOTY	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	r Labels		
ADDRLBS	standard pin fed address label 15/16x3-1/2	addrbook.db	
ADDRLBS	standard mailing address label 4"x2-7/8"	addrbook.db	
ADDRLBM	Standard laser address label 2 across 10 down	addrbook.db	
	ess Book Labels		
CUSADRXX	custom address labels	addrbook.dbf	
CUSTADRX	custom address labels	addrbook.dbf	
CUSTADRX	Order Serial Number Labels	addrbook.dbf	
CUSTADRX		addrbook.dbf sales.dbf partmast.dbf	
CUSTADRX <b>Sales/Work</b> LBLWO-SN	Order Serial Number Labels	sales.dbf	
CUSTADRX <b>Sales/Work</b> LBLWO-SN	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and:	sales.dbf	
CUSTADRX Sales/Work LBLWO-SN Custom Sale	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels	sales.dbf	
CUSTADRX Sales/Work LBLWO-SN Custom Sale CUSSNL* CUSTSNL*	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels See above for files. See above for files.	sales.dbf	
CUSTADRX Sales/Work LBLWO-SN Custom Sale CUSSNL*	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels See above for files. See above for files.	sales.dbf partmast.dbf	
CUSTADRX Sales/Work of LBLWO-SN CUSTON Sale CUSSNL* CUSTSNL* Stock Issue STKLAB	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels See above for files. See above for files. Labels custom stockroom labels	sales.dbf partmast.dbf	
CUSTADRX Sales/Work LBLWO-SN CUSTOM Sale CUSSNL* CUSTSNL* Stock Issue STKLAB Custom Stoc.	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels See above for files. See above for files. Labels custom stockroom labels k Issue Labels	sales.dbf partmast.dbf stocktra.dbf	
CUSTADRX Sales/Work of LBLWO-SN CUSTON Sale CUSSNL* CUSTSNL* Stock Issue STKLAB	Order Serial Number Labels Tmptable=copy of partmast w/ModelNo=Serial#) and: s/Work Order Serial Number Labels See above for files. See above for files. Labels custom stockroom labels	sales.dbf	

**Note:** Invoice and Receiving shipping labels and custom shipper labels are described in Section 10.1.6 for Invoices, and 8.5 for Receivers.

#### 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.

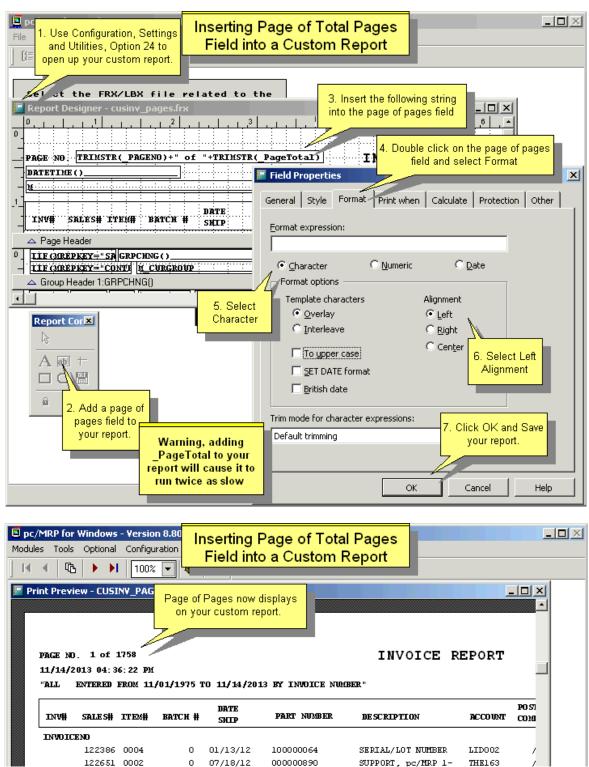
**Note:** If you are changing an **old logo to a new one**, the fastest way is to use Windows Explorer to rename the files. Let's say your forms use an image named logo.jpg. Rename logo.jpg to logo\_old.jpg. Then rename logo\_new.jpg to logo.jpg. You might find that even after the change, the old logo 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.



15.4.4.3 Address information layout used for forms

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
Additional Filter Condition	x O
⊠© Enter 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 Cancel is Not equal to

## For logical fields:

Additional Filter Condition		
Obsolete parts?		
All		
	All	
<u>0</u> K	No <u>C</u> ancel Yes	

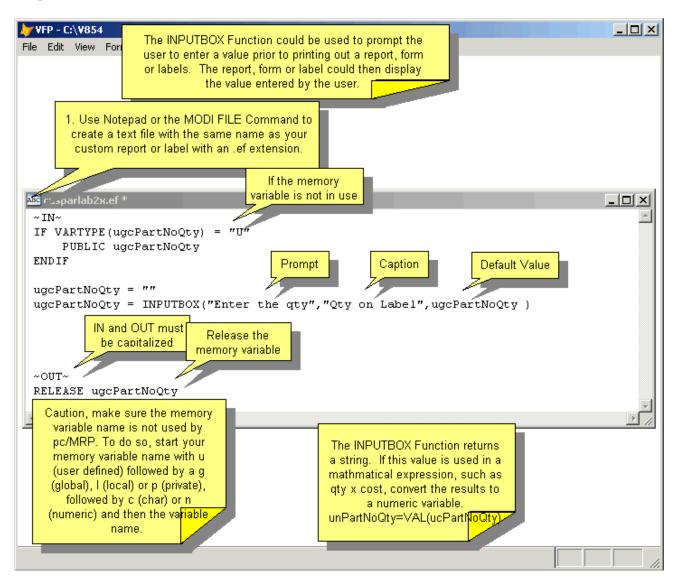
For numeric or date fields:

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>Q</u> K <u>C</u> ancel		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	omments Custom S ning Build Commer	
Image: second condition of the		□× 567 ▲ gaRight[7]
SHIP VIA: ' + SHIPVIA	<u>'TERMS: '+TERMS</u>	ACCT: '+ACCOUNTNO
4 ITEM PARTNO DESCRIPT	Field Properties	×
	Expression: ExtractTags(Comment, "build uch as CSOBuild.frx. nd enter:	to top of band to bottom of band
		OK Cancel Help

Image: Pile Edit View Tools Winds       Custom Comments Custom Sales Order Containing Standard Comments Only         Image:	
Report Designer - cso.frx	
SHIP VIA: ' + SHIPVIA 'TERMS Report Corfx   'ACCT: '+ACCOUNT	<u>NO</u>
ITEM         PARTNO         DESCI         Field Properties	×
▲ Page Header       General       Style       Format       Print when       Calculate       Protection       Other         ● ITTENNO       PARTNO       DESCRI       Expression:       Expression:       Expression:         ■ Detail       ■ Object position       ● Object position       ●	

# 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.

	r Windows - Version 9.00Q : Optional Configuration Magual	
Sales Ord	er (Edit Mode - Multiple Item)	×
SO/WO # Order Date		Back
Custome	F Billing / Shipping Delivery Item Info Accounting Info	Next
	Root Address Lookup Account # ALA001	įtems/Notes
Customer	Alaska Cyclery Addr Type CUS	🥜 Links
	Many June	
Street	23 Church Street Credt Card [None] +	Add Item
	Customer PO# 0328	
	Fairbanks Contact	Clone
State / Zip	Nealed Doc #	Breakdown
Country	USA Territory	Delete
Phone / FAX	Region	
e-Mail	Entered By	Options
Sem Part N 9999 NA	Iumber Rev Description Part Lookup Model Number	Logbook
Quantity	Unit Sale Price Tax % Freight Disc % Reg Ship Date Reg Arrival Date	Create Part
Comments	0 5.000000 10.000 0.00 0.00 06/23/2016 2 / / splayed Currency BASE CURRENCY  Division Complete Serial Number N	Create Addgess
	Heid Location Tax Type Taxable Confirmed //	Einished Gancel
		NUM

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).

eneral Style i		int when	Calculate	Protectio	n Other
<ul> <li>Print repeated \</li></ul>	alues —				
C No					
Also print					
In first whole	band of a r	new page/o	olumn		
When this da	ta group ex	pression d	nanges:		
				1	3
When band of	ontent over	flows to n	ew page/co	lumn	
		rue:			
Remove line if t				201	
		M" AND ite	mno<>"99	99"	
rint only when ex		M" AND ite	mno<>"99	99"	
rint only when ex		M" AND ite	mno<>"99	99"	

4	ITEM	PARTNC	QTYORI	QTYSHIP	BKORE UNIT	PRICE	PRICE
	🛆 Page H	eader					
	IIF (MMO	DEL='M',MODELNO,SERIAL) MMENT	DESCRIPT STRORIG STRU	•		TRCOSTSTREX ID(ALTRATE * val(\$ ROUNI	TCOST
4	🛆 Page Fo	poter					
0 	NOTES:	SUBSTR(MINVBP,1,46) SUBSTR(MINVBP,47,46) SUBSTR(MINVBP,93,46) SUBSTR(MINVBP,139,46 SUBSTR(MINVBP,135,46) SUBSTR(MINVBP5,1,46) SUBSTR(MINVBP5,47,46 SUBSTR(MINVBP5,93,46 SUBSTR(MINVBP5,139,4	5) 5) 5) 5)		IIF(UPPER(COMP	NT:         -1 * MFDI           '         MIFCOST           WITH TAX1         MFTOT           '         MIFTAXTO           '         MIFTAXTO	ISCTOT
4	🛆 Summai	ry .					

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	5:				SUBTOTAL:	100.00
					TAX1:	5.00
				SU	JBTOTAL WITH TAX 1:	105.00
					TAX2:	10.50
					TOTAL	
					TOTAL:	115.50
					TOTAL	S 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	Y
File Edit View Format Tools Report Window Help	
[ 🔚 🖳 📯 🎯 🕒 🖣 🌃 Quick Report	check (usually only done for checks).
	Setting a default printer for a form, report or check (usually only done for checks).
Save the printer environment	

pc/MRP for Windows - Version 8.50AD	
File Edit View Format Tools Report Window Help	
Close Ctrl+F4 b 4	
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         Page Header	
△ Group Header 1:GRPCHNG()	
0       penci       ITEMNN LEFT(dla SUBSTR(DESCRIPT, 1, PARTNOACCOUNTNG COST ONORDER         • Detail       •         0	
Changes the page layout and printer settings	

# And finally:

pc/MRP for Windows - Version 8.50AD	
File Edit View Format Tools Report Window Help	
) (E 🖷 🖿 🛠 🍩 📮 🐐	
Report Designer - custpowithrev.frx	
<u>_</u> <sup>0</sup> , , , , , , , , , , , , , , , , , , ,	
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△ Page Header	
Group Header 1:GRPC	
0 ponoi ITEMNUERT Paper	
Detail     Size:     Letter	
Image: Source:     Automatically Select	
Report Cor X GRPCH	
Imaging (inches)     Imaging (inches)	
A labil + C Portrait Left: 1 Right: 1	
O E Landscape Top: 1 Bottom: 1	
OK Cancel Printer	
Click on the Printer Butto	n
and select the printer to b	pe 🛛
used for this form.	

# 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

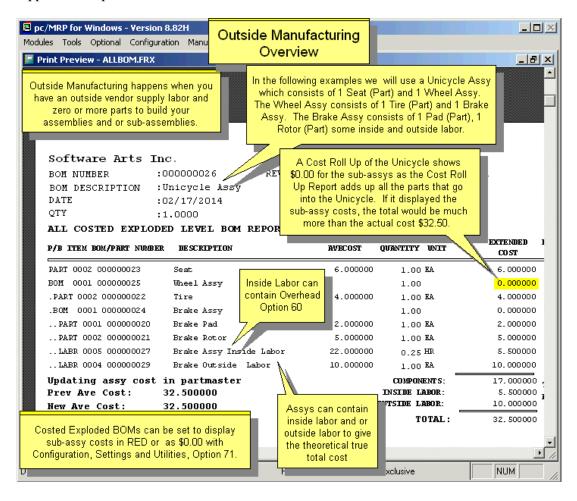
### 15.9.2 Outside Manufacturing

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



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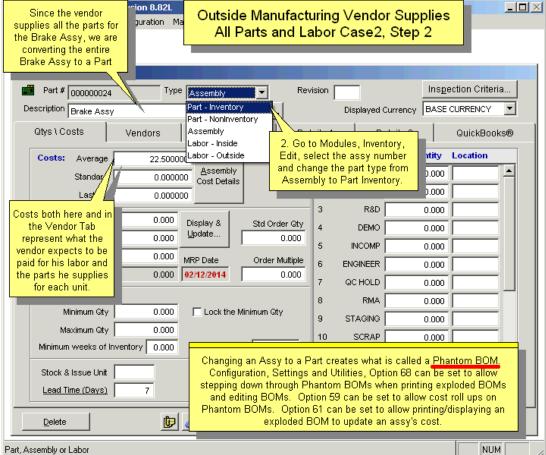
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Brake Rotor 🖊

Brake Outside Labor

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Brake Outside

Vendor's Brake Labor an

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and you do a cost roll up, you will

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Roll-ups on phantom BOMs

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 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 rotor and the PO to the vendor.

 When the vendor completes the Brake Assy, use the Stockroom to Receive Back Completed Assys

 D [c:\docume~1\doug\locals~1\temp\39587875.dbf)

# **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 Return Material Authorizations, RMA(s)

# 15.9.4.1 RMA Method 1 (assemblies and parts, pc/MRP Folder must contain a file named AllowPartIssRec.flg)

- 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.
- 2. 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. Ŝcrap
    - 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
        - 1. 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.
        - 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. If you have pc/MRP Version 8.93 or higher, 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 (version 8.93 or higher only)
  - 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

# 15.9.4.2 RMA Method 2 (Assemblies Only, \* pc/MRP Folder must contain a file named AllowPartIssRec.flg \*)

- 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. If you have pc/MRP Version **8.93** or higher, 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. If you have pc/MRP Versions 8.93 or higher only
  - 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

### 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. 999999 & 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. This step is optional.
  - 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.
  - c. 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.
  - d. 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" or "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 decrease the quantity on hand. If the part is a serialized item, select the serial number you plan to ship. This will create a "Receive from Manufacturing" Serial Lot Number detail record and increase the on hand quantity for that serial number. Use pc/MRP's Invoice module to print out an invoice and shipper for \$0.00 or higher. This will close the original sales order and decrease the quantity on hand. If the part is a serialized item, this will decrease the quantity on hand 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 is greater 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) - Companies using no serialization.

**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 (decrease onhand, increase wip).

Once it is repaired, use Stockroom's R Transaction to receive back the part back (increase onhand qty, decrease wipqty)

Invoice the sales order for \$0.00 or more (decrements onhand qty).

# 15.9.4.7 pc/MRP's method to handle re-work

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.

### **15.9.4.8** If performing the processes described in section 6 or 7

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.

For example:

If you purchase sheet stock by the pound and issue by the sq ft enter a part number for a 4x8 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 2x2 Door Panel .83333 hours (5 mins) Shearing Labor (Optional) 4 sq ft of sheet.

In this case, I would make a work order for 8 2x2 panels I would use the stock room to issue the work order to mfg It will issue a total of 32 Ft (one 4x8 sheet) I would use the stock room to receive back the work order from mfg. It would receive back 8 2x2 Panels.

If I have another Part Number called Hood (it is now an assy) .83333 hours (5 mins) Shearing Labor (Optional) 16 Sq Ft of sheet.

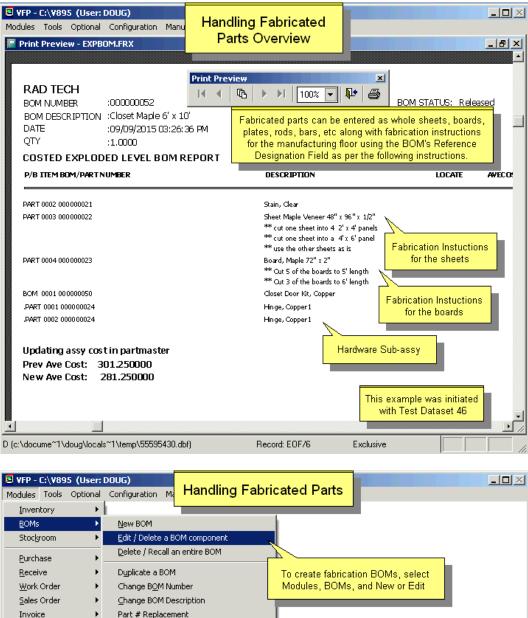
In this case (mixed use) I would issue 2 work orders, one for the hood and one for 4 panels

The stock room would issue both work order but hand out one sheet which they would share and cut up

The stock room 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.

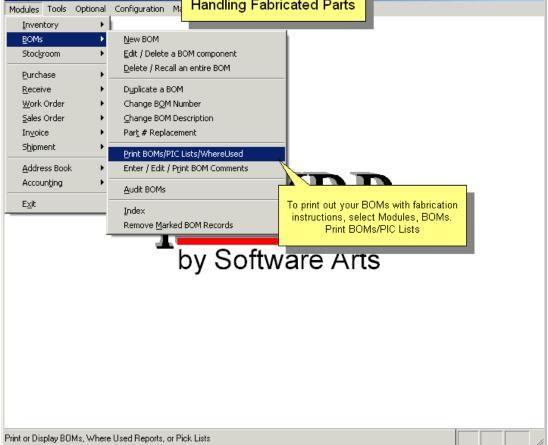
For another example see the screenshots below.

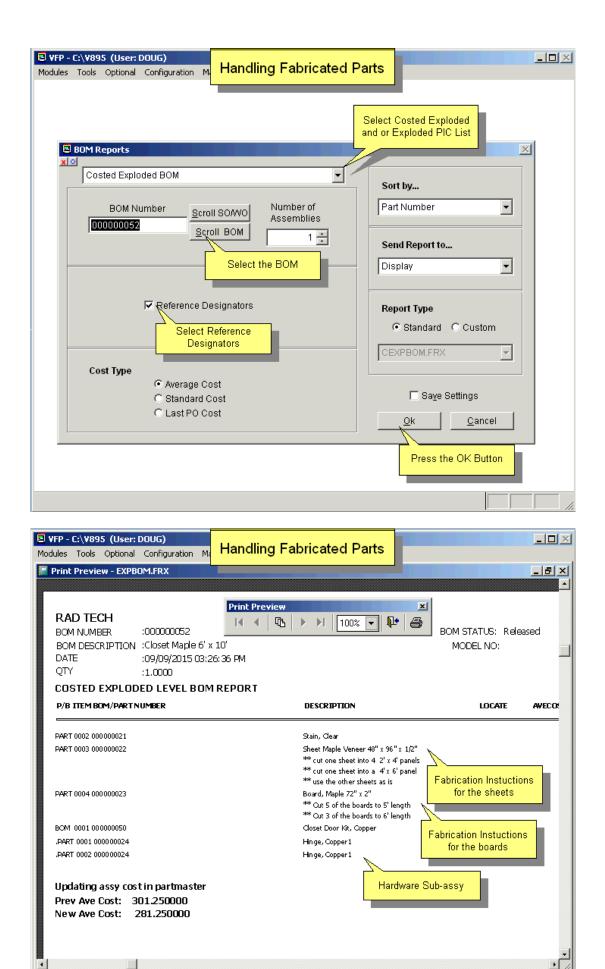




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Modules	Tools Optional Configurati		
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	IEST BOM NUMBER 000		
	Bills of Materials I	Database	<
	x o Indexe	ed Search (Fastest) Queried Search	
	Save Settings	BOM Number (Unique)	
	Color Code		
	Go <u>T</u> op	Begin Scrolling <u>At</u> : 🔽 <u>N</u> earest Match	
	Go <u>B</u> ottom	00000052 Searc <u>h</u>	
	BOM Number 000000051	Closet Maple 5'x 8'	
	▶000000052	Closet Maple 6(x10)	
		Edit a BOM that contains	
		fabricated parts.	
			.
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List of appl	licable records		
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VED -	C:\¥895 (User: DOUG)		
A REAL PROPERTY.	Tools Optional Configurat	tion M. Handling Fabricated Parts	
	000000052: Closet Maple		<b>.</b>
	Item Type Part↑     ✓ 1 A 00000	Number         Part Description         Quantity           00050         Closet Door Kit, Copper         1.0000	-
	H -	00021 Stain, Clear 3.0000	
		00022 Sheet Maple Veneer 48" x 96" x 1/2" 8.0000	
	- ✓ 4 P 00000	00023 Board, Maple 72" x 2" 8.0000	
		Select one of the fabricated items. In this	
		case we have 8 sheets of Maple Veneer	
			귀
	Component Ref. Desi	ignators Miscellaneous Add Item	
	ltem # 3	BOM Qty 8.0000 Alternate Part #s	
		ve to:	
	Part# 00000002	Item Button	
	· · · · · · · · · · · · · · · · · · ·	ple Veneer 48" x 96" x 1/2" arent Assy	1
	Manufacturer	X	0
	Model #	Changes:	1
	Unit Each	Ave Cost 18.000000 Save	-
	2	Standard Cost 0.000000 Staging Bin	1
		Last PO Cost 0.000000	1
			1
a List of th	e BOM components		

	ration M. Handling Fabricated Parts	×
Item #         Item #	t Item Edit screen       Alternate Part #s         3       BOM Qty       8.0000         000000022        Type         Sheet Maple Veneer 48" x 96" x 1/2"	
Quantity per Assembly of the componen	nt	
Purchase     Delete       Receive     Duplica       Work Order     Chang	ration Ma Handling Fabricated Parts	_ 🗆 🗵





Record: EOF/6

Exclusive

D (c:\docume~1\doug\locals~1\temp\55595430.dbf)

# 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 P BOM pc/MRP Table Structure Stock Purch Rece Sale/ Shipn Addr Acco Quick Comp Globa Globa C ASCII Ţext file (.TXT) Repo Utilitie C ASCII Ţext file (.TXT)	Option 39 allows the file structure data b Check AP voucher in rint/Display the file st es <u>3</u> ition <u>3. Select</u> File Edit Format Dictonary Tal Used by Modu	the user to print out for any of pc/MRP's ase files.	Utility] Utility] Utility] the DBF whose to print out or fes Sale Price Mark Not Configured First Method Store Area? A	up option for Suffix	iving ity to issue to W is ALLOWED. Cost kes	Roll
2. Press the OK Button	Field Field I ID 2 NAME 3 PNAME 4 ADDRE 5 CITY 6 STATE	Character Character Character SS Character Character Character	41 41 41 30	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.

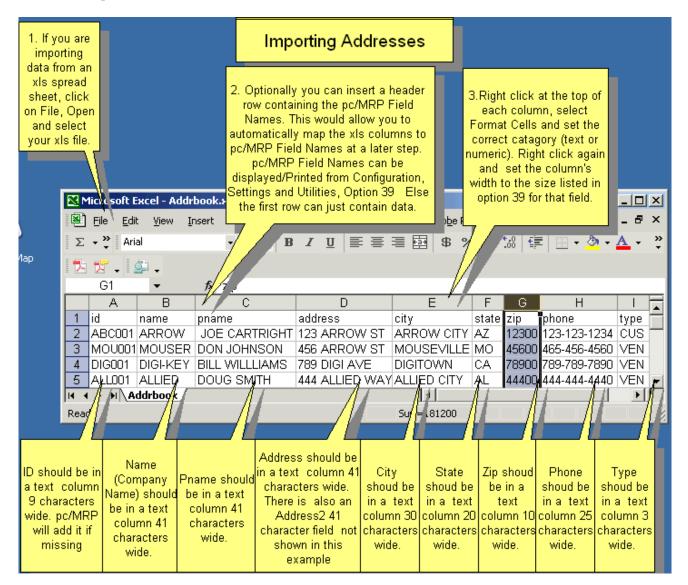
VFP - C:\V850 (U Modules Tools Opti	ional Cor	figuration					on 39, and BOM.DBF Structure as shown	
Display Settings For	Optic	n Deetto	лтп		Setting	_		
AI	39		splay the file structu	re for a selected DE	-			
🔄 pc/MRP Table 9	tructuro	e	×		[Utility]			
x o	na actare.	3		ric field overflows	[Utility]			
C Actual Table :	Structure		Scroll		Vendor Pric	e List		
	oliuciure;			ва	Prompt for	the area	when receiving	
					Import Cost	: Averag	e Quantity to is	
<ul> <li>Dictonary Tab</li> </ul>	nlo Dofinit	tion		ion	Yes			
		uon					otion is ALLOWED	
ADDRBOOK		FO\ ETDU	etur\actual\ai	vize and default cor		rad for S	Inffivac	- U ×
	_					in Tayte	X Plugins Window ?	
<ul> <li>ASCII <u>T</u>ext fil</li> </ul>			-					
🔽 Open ii	] 🖬 🖴		🗟 🔓 🖨 🖌 🚜	42 🖸   🗩 9		33	🖫 🖼   🏣 🎵   🎚	= <u> </u>   "
C HTML Docur	🔚 mrp10	01 index.htm	🛛 🔀 🔚 new 2 🔀	🔚 importesvpartlist	.txt 🔀 🔚 imp	ortesybor	n. txt 🗵 😑 ADDRBOOK. 1	IXT 🗵
V Open ii	1							
I™ Open n	2	Dicton	ary Table St	ructure for	ADDRBOOK	.DBF		
	3		y Module: Ad					
Output Folder	4		,					
	5							
	6	Field	Field Name	Type	Width	Dec	Purpose	
<u> </u>	7							
-								
	8	1	ID	Character	9	0	Account Number	
	9	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	•
	5147 char	s !Ln:1	Col: 1 Sel: 0 (0	bytes) in 0 ranges		Dos\Wir	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:

VFP - C:\V850 (User: DOUG Modules Tools Optional Confi	
	select Configuration, Settings and Utilities,
🚊 pc/MRP Settings & U	tilities and select Option 40 4. Select the type
Display Settings For	Option you wish to
AI	38 AP voucher information on receiver rep 3. Select the import from ASCII,
Inventory	39 FinitiDisplay the file structure for a selected DE pc/MRP Table CSV, dBASEIII,
BOM	40 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	50 Set the average
Global Settings	51 Allow a BOM pa Location of the file to Import
Report&Label Writer	
	52 Edit the content C:W850VADDRBOOK.CSV 53 Sales Warnings
	5. Locate the life
2. Click on Run	55         Put Serial Numb         First Row Contains:         you wish to import           56         Match a custom         Image: Field Names         data from.
Utility Option 40	
Send to File	Run Utili <del>te 40</del> 🗖 <u>S</u> ave Settings
	6. If the first row
	conatins name that Ok Cancel
	match pc/MRP field
It is a good idea to set an	names select Field
Administrative Lockout	Names, else select 7. Press OK
before importing data into	Data
pc/MRP.	

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.

		figuration Manual Developer Hel	P	
1000	🖣 pc/MRP Data Ii	mporter		×
Dis	Address Book	Database Structure		Import File
All	Field Name	Purpose	Filled By	Field Name
Inve	ID	Account Number	ID	🔺 ID 🔺
BOI	NAME	Company Name	NAME	NAME
Sto	PNAME	Contact Name	PNAME	PNAME
Pun	ADDRESS	Street Address	ADDRESS	ADDRESS
Rec Sale	CITY	City	CITY	СІТҮ
Sait	STATE	State/Province	STATE	STATE
Add	ZIP	Postal Code	ZIP	ZIP
Acc	COUNTRY	Country		PHONE
Quir	PHONE	Telephone Number	1 Since the first ro	w has column names that match
Con	EXTENSION	Telephone Extension		s, Autosync will automatically map
Glol	TYPE	Address Type (Addr Type)		e pc/MRP fields. If the first row
Rep	DATE	Date Address Entered		would have to manually map the
Utilii	ACCOUNT	*** Not Used ***		to the pc/MRP Field Names on the
	TERMS	Sale/Purchas		left columns and double clicking o
	DISCOUNT	Discount Perce Save Restore	the pc/MRP	Field Names on the right.
	FAXNO	FAX Number Import Import		
	COMMENT	Comments Map Map		
	TAXR	Tax Rate Perd		
	RESALE	Resale Number		<b>T</b>
	OAL COMAN	Polocmon male 2		WARNING! "Remove current
			<u>a</u> tosync <u>Cl</u> ear All	records and insert new records
	🕞 Import Method	b		does just that. It will delete all
	Connerda	ew records to the data table		the records in the current
	🔰 🕓 Appena n			QK database and then only add the
_		current records and insert new rec	ords I —	
		current records and insert new rec	ords	new records! This Option was removed in 8.72 and added

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.

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 Con pc/MRP Settings & Utiliti	figuration						nd PARTMAST.DBF ture as shown below	
Display Settings For Optic	on Detting	0000		Setting			<b>A</b>	
All 39	Print/Di	splay the fil	e structure for a sel	ected DE [Utility]				
				[Utility]				
pc/MRP Table Structures	_		eric field over	erflows [Utility]				
		Scroll	1	Vendor	Price List			
C Actual Table Structure			rea 🗌		for the area w		-	
			Б		Cost: Average	Quan	ntity to is	
			otion	Yes				
Dictonary Table Definiti	📝 C:\\¥8	54\STRUC	TUR\ACTUAL\PA	RTMAST.TXT - N	Notepad++		_ 🗆	×
PARTMAST.DBF	File Edit	: Search	View Encoding I	Language Settin	gs Macro Run	TextF	X Plugins Window	?
					-		-	x
ASCII Text file (.TXT)	1 🗅 🖻		B B A L		⇒   ∰ <b>b</b> o   (		🔤 🖼 📑 👖	»
Open in Notepad.	1							
	🔚 mrp10	)1index.htm	🔀 🔚 importesvpa	rtlist.txt 🗵 🔚 PA	RTMAST.TXT 🛽	3		
C HTML Document (.HT	1							
🔽 Open in your Inter	2	Dictor	ary Table St	ructure for	PARTMAST.	DBF		
	3		v Module: Pa					
Output Folder Location	4		,					
	5							
1	6	Field	Field Name	Type	Width	Dec	Purpose	
	7							
OK	8	1	PRODCODE	Character	2	Ο	*** Not Used	
<u></u> ,	9	2	CATINDEX	Character	3	0	Catagory Inde	
	10	3	PARTNO	Character	15	0	Part Number	
	11	4	DESCRIPT	Character	35	Ο	Part Descript	
	12	5	MANUFACTER	Character	25	Ο	Manufacturer	
	13	6	MODELNO	Character	23	Ο	Model Number	_।∥
	•						►	
			du o (o hutura) ti o		De dur d			
	13 LU : 1	COL:1 S	el : 0 (0 bytes) in 0 r	ranges	Dos\Windo	ws AN	INS INS	14

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. .

# 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	Impor	ing Parts			_
18) 18)	click on the hea Optionally, you containing the pc/ allow you to autom pc/MRP Field Na Field Names ca Configuration, Se	rows leaving only dat der rows and select D can then insert a head MRP Field Names. Th atically map the xls co mes at a later step. p n be displayed/Printe tings and Utilities, Op	Delete). der row his would columns to pc/MRP ed from	3. Right click each colur Format Cells correct categ numeric). Rig and set the width to the s option 39 fo	nn, select and set the gory (text or ht click again e column's size listed in
	2 - 3				
	A1 🖌 🖌 🌆 🖌 🖌 🗛 🗛 🗛	00001			
If your part numbers	Ă I	В	- C 1,	D E	E T
are all numeric and	000000001 🚯 ARING, 3" OD	x 1" ID	P	FALSE	5 10
Excel will not allow	000000002 SPOKE		P	FALSE	0 1
leading zeros, go into	000000003 REAR AXLE		P	FALSE	5 1000
the top text box and	000000004 NUT		P	FALSE	10 0
insert a single 'before	000000010 WHEEL ASSY	,	A ,	FALSE	ر 290 <b>ر</b>
the start of the part	000000011 REAR WHEEL A>	LE ASSY 🚺	A /	FALSE /	0 1500 /
	000000012 PAPER OFFICE S	SUPPLY(NonInve <mark>/</mark> tory	(PP 📙	TRUE /	1 1
	00000013 LABOR INSIDE		L //	FALSE /	5 20 <mark>/</mark> /
	10000014 LABOR OUTSIDE		L //		5 20/
	N parts				
xls Columns with logical			out Source		Cost (average
values should be		Part_Assy,	False or		cost), StdCost
Generic Columns	PartNo, your Descript, th	e text, P for or	mmitted for	Area20Qty (If	and
containing TRUE or FALSE, However	Port Number parts		entory Parts	available)	LastPOCost
numeric columns with 1	should be in a description	i _ , , , riar	nd Assys.	numeric	should be in a numerical
or 0 or text column with	text column, text column	Access I for	True for	column 13	column 14
T or F will work as well.	15 characters characters	I Incido and	utside Labor	characters	characters
i di i wiii work da weil.	wide wide.	Outoido Lobor	and Non	wide with 3	wide with 6
	wide.	Inve	entory Parts	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.

VFP - C:\V854 (User: DOU Modules Tools Optional Cor	Importing Parts Overview
Display Settings & Ut Display Settings For All Inventory BOM Stockroom Purchase Order Receiver Sale/Work/Invoice	All Select the type         Option De       Utilities, and select Option 40         38       Incluster         39       Primole         40       Import data into pc/MRP         41       Check data tables for numeric field overflows         42       PO cost based on         44       Set the default rece         45       Potom memory of the set o
Shipment Address Book Accounting QuickBooks Related Company Address Global Settings Report&Label Writer	<ul> <li>45 Set the stockroom d</li> <li>46 Allow the Auto Rec</li> <li>47 Set the Inventory de</li> <li>48 Set the part number</li> <li>49 Set the part number</li> <li>49 Set the part number</li> <li>50 Set the average cos</li> <li>51 Allow a BOM part of</li> <li>52 Edit the content of v</li> <li>53 Sales Warnings</li> <li>54 Update alternate part</li> </ul>
2. Click on Run Utility Option 40 Send to <u>File</u> It is a good idea to set an Administrative Lockout	<ul> <li>First Row Contains:</li> <li>Match a customer p</li> <li>Allow shipper gener</li> <li>Eun Utility 40</li> <li>Save</li> <li>If the first row conatins name that match pc/MRP</li> <li>Qk</li> <li>Versions 900W, 905G and higher have the following changes: pc/MRP Will no longer import existing part numbers (could wipe out current qtys if you selected to keep the new records). Call Software Arts to obtain an "AllowDupImpParts.ftg" file to restore your choice to choose. The StartDate Field contains the date the record was imported and is now read only.</li> </ul>
before importing data into pc/MRP.	field names select Field Names, else select Data 7. Press OK Vmportation\Logs\

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.

•	:\ <b>V854 (User: I</b> Tools Optional	Configuration Manual Develo	per Help	
	😐 pc/MRP Dat	a Importer		×
🧕 po	Part Master	Database Structure		Import File
Displ:	Field Name	Purpose	Filled By	Field Name
Inven BOM Stock Purch Recei SaleA Shipr Addre Acco Quick Comp Globe Repoi Utilitie	PRODCOD CATINDEX PARTNO DESCRIPT MANUFACT MODELNO DRAWSIZE DRAWINGN REVLEVEL COST POUNIT PORATIO UNIT ONHAND ONORDER ONDEMAN WIPQTY MINQTY MAXQTY	Catagory Index Part Number Part Description TER Manufacturer 1 Model Number Drawing Size Drawing numb Revision Code Average Cost Purchase Orde Stocking/Sales Quantity in Sto Quantity On Or Save		tch pc/MRP's sutosync will y map the pc/MRP fields
<u>د</u>	┌ Import Me		✓ <u>Au</u> tos∳nc <u>Cl</u> ear All	does just that. It will delete all
		nd new records to the data tab recurrent records and insert		the records in the current database and then only add th new records! This Option was removed in 8.72 and added
data (c:\	\docume~1\de		le select Append. If you wish select Remove. Then click Ol	to 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.

### 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 All Inventory BOM Stockroom Purchase Order Receiver	onal <u>C</u> onfigues <b>C</b> Utilities Option 31 32 33 34 35	Description Change Password Check inventory for i Set the eMail default pc/MRP Fields	<u>veloper</u> <u>H</u> elp	using the Select	n Excel Ind lower I higher), Names C, etc. nave to ne fields Button.	ule to chang B; 3 R&D Cost Comp	_	-
Shipment Address E Accountin QuickBook Company , Global Set Report&La Utilities DESC MANU MOD DRAM	Name DCODE NDEX	Ase Structure Purpose *** Not Used *** Catagory Index Part Number Part Description Manufacturer 1 Model Number 1 Drawing Size Drawing number		Filled By PARTNO DESCRIPT		Field Name PARTNO DESCRIPT DNHAND PART_ASSY COST JNIT NONE>		IP w.
	ort Method <u>A</u> ppend nev <u>R</u> emove cu	Revision Code Average Cost w records to the dat rrent records and in	a table sert new reco	tosync	<u>Ok</u> w records if emove curre	imp Cance	OK Butto ort parts	n to

**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.

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.

Modules Tools Opti	-	Importing Parts 900W, 9	Duplicate I 905G and Hi		
<u> </u>	or more of the import reserve data integrity,	ed part inventory records a , imported duplicate record:	-		X
lf yo	u wish to import new in e two options: 1. Remove the pre	ventory records and replace e-existing record from invent re Arts technical support to d	ory BEFORE impor	ting.	<u> </u>
	Address Book	<u>OK</u> king for and removing duplic	cate records in A	rtmast table	ord module to cl
1	Accounting QuickBooks R Company Add Global Setting: Report&Label Writer	ossing 09 20 priciade Ar voucher Into	6 re	importing caused cords, Version 9. and higher displ following warr	DOVV,9.05G lays the
to 9.00W or 9.05G at 1. pc/MRP will no lor duplicates and you s records" you could v the current qtys. If y Software Arts and v 2. Part Number Start	s we have made the follow iger import part numbers the elected "Keep the new re- vipe out your current qtys ou want retain the ability to we will install an "AllowDup	hat already exist. If there were cords" instead of "Keep the exis if the new records did not cont to choose after you update, call plmpParts.fig" flag file.	ting	Vendor Price Li	area when recei
pc/MRP for Wind Modules Tools Opti [Scheduler Enabl		Importing Parts 900W, 9	Duplicate I 905G and H		und
D	NI Control Con	tilities Option Description 25 Data to be inserted into t 26 Launch a plug-in utility p 27 Reindex all index files an 28 Define part number size Done	rocess nd check for corrupti	[Utility] on [Utility] 9 3	ord module to c
being imported in Vimportatio	sub directory n\Logs\ QuickBooks Relate Company Address ates_20161114@13.23 View Help		ages as in ale of pc	in 1 STORES; 2 TES Cost Type: Aver M (Utility) Disabled ep No DE (Utility)	
PartNo, Descri 000000001, "BE 00000002, SPO Duplicate Part Numbers		L" ID MrpPart" Part Number Description from ne new record(s) peing imported	field overflows on Option 40	Vendor Price Li	area when recei
<u> </u>			<b>_</b>		

# 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 Configuration ow you to displa					
Display Settings For Option Descent	puon		Setting			4	
All 39 Frint/Di	splay the f	file structure for a s	elected DE [Utility]				
pc/MRP Table Structures		×	[Utility]	l			
xo	_	ric field o	verflows [Utility]	l			
C Actual Table Structure	<u>S</u> cro	off	Vendo	r Price List			
_		ea ea		t for the area			
I			-	Cost: Averag	e Qua	ntity to is	1
Dictonary Table Definition		tion	Yes				
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		View Encoding I			n Tavłe	Y Pluging	
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ASCII <u>T</u> ext file (.TXT)				⇒   as <b>b</b>			
🔽 Open in <u>N</u> otepε 📔 🔎 📛		🗟 🔓 🖨 🛛 🚜		2   66 ~20	22		57 N
O HTML Document (.F 🔚 mrp10	1 index.htm	🛛 🔚 new 2 🗶	PARTVEND.T>	त 🖂			
_							
	Distan			DADTUEND	DDF		
		ary Table St		PARIVEND.	.DDr		
Output Folder Location 4	useu p	y Module: Pa	rt Vendors				
	Field	Field News		Uidth			
	Field	Field Name	Туре	Width	Dec	Purpose	-
<u></u> 8	1	 KEYID	Integer	4	 0	Unique	Begord
	2	PARTNO	Integer Character	4 15	0	Part N	
10	3	PREFER	Integer	4	0	Prefere	
10	4	VENDID	Character	7 9	0	Vendor	
12	5	VENDID	Character	9 41	0	Vendor	
13	5	VENDPHONE	Character	25	0	Vendor	
15	1	VENDEHONE	Character	20	U	venuor	FIIONE
28 Ln : 14	Col : 61	Sel : 0 (0 bytes) in	0 ranges	Dos\Wind	lows Al	NSI	INS //

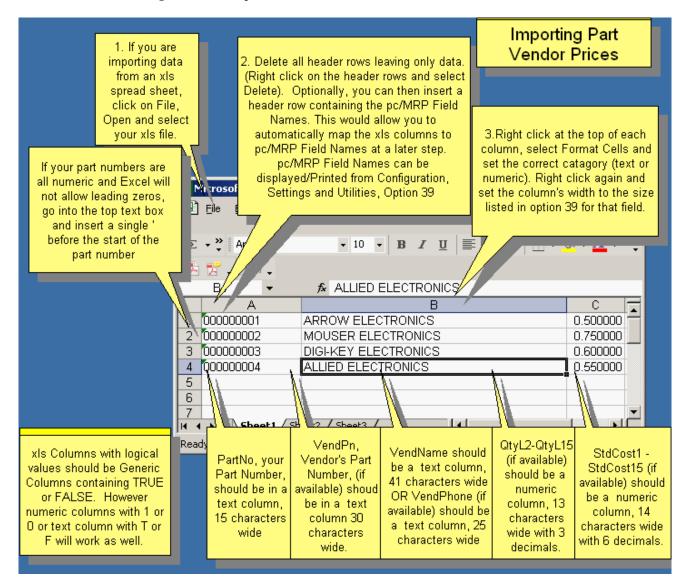
The **PartVend** table allows for an unlimited number of vendor and price quantity breaks. These versions will use the vendor name or phone number to insert into the vendor fields of the partvend table. The PARTVEND table contains KeyId, PartNo, VendId, StdCost1-15, QtyL2-15. The KeyId field need not 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**".

🗷 VFP - C:\V854 (User: Di	
Modules Tools Optional ( pc/MRP Settings 8 Display Settings For All	1. To import the data, select Configuration, Settings and Utilities, and select Option 40       4. Select the type of file you wish to import from ASCII, CSV, dBASEIII, CSV, dBASEIII,         39       Print/D' play the file structure for a selected DE Fut       5. Select the pc/MRP Table
BOM Stockroom Purchase Order Receiver Sale/Work/Invoice Shipment Address Book Accounting QuickBooks Related Company Address	<ul> <li>40 Import data into pc/MRP</li> <li>41 Check data tables for numeric field overflows</li> <li>42 PO cost based on</li> <li>42 PO cost based on</li> <li>44 Set the default recei</li> <li>45 Set the stockroom d</li> <li>46 Allow the Auto Recei</li> <li>47 Set the Inventory de</li> <li>48 Set the part number</li> <li>49 Set the part number</li> <li>50 Set the average cos</li> </ul>
Global Settings Report&Label Writer Utilities 2. Click on F Utility Option	
Send to <u>File</u>	

# Step 4 This screen shows importing with the first row containing data

Aodules Tools	54 (User: DOUG) Optional Configu pc/MRP Data Im	uration Manual Devi porter	loper Help	
×		Database Structu	e	Import File
📃 pc/ Display	Field Name	Purpose	Filled By	Field Name
All Invento BOM Stockrc Purcha: Receive Sale/W Shipme Addres Accour QuickB Compar Global S Report& Utilities	PARTNO PREFER VENDID VENDNAME VENDPHONE VENDCURNCY QTYL2 QTYL2 QTYL3 QTYL4 QTYL5 QTYL6 QTYL6 QTYL6 QTYL6 QTYL7 QTYL8 QTYL7 QTYL8 QTYL9 QTYL10 QTYL11 QTYL12 QTYL13 QTYL13 QTYL14 QTYL15 STDCOST1	Level 2 Qty Level 3 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 10 Qty Level 11 Qty Level 12 Qty Level 12 Qty		MRP's no will the
Se	C Remove cu		table d	does just that. It will delete all the records in the current 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.

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 Op	ptional C	Ionfiguratio					ption 39, and BOM.DBF will allow Structure as shown below.
Display Settings Fo	r 🛛 O	ption	приос		Setting		
All		39 Print	Display the file stru	icture for a selected	DE [Utility]		
g pc/MRP Table	Structur	es	×		[Utility]		
xo				leric field overflow	s [Utility] Vendor P	rico Liet	
C <u>A</u> ctual Table	Structure	e)	<u>S</u> croll	irea			ea when receiving
	🔀 C:\ V8	54\STRU		)M.TXT - Notepad	-		
				Language Settings		in TextE	
• Dictonary T							🖪 🛃 📑 1 運 🕢 👋
BOM.DBF	1				·	~ ~	
	🔚 mrp10	1 index.htm	🔀 🔚 importesvbo	om. txt 🔀 📄 BOM. T	XT 🔀		
ASCII <u>T</u> ext:	1						
🔽 Open	2	Dicton	ary Table St	ructure for	BOM.DBF		
C HTML Doci	3	Used by	y Module: Bi	ll of Materi	als		
⊡ Open	4						
IM Obeu	5						
Output Folde	6	E e l el		T	II i alta h	Dee	Duran a construction of the second se
	6	riela	Field Name	Туре	Width	Dec	Purpose
	ſ						
	8	1	BOMNO	Character	15	ο	BOM Number
	9	2	BOMDESCRI	Character	35	0	BOM Description
	10	3	PRODCODE	Character	2	Ο	*** Not Used ***
	11	4	CATINDEX	Character	3	Ο	*** Not Used ***
	12	5	PARTNO	Character	15	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 🗾
	1724 chare	s 178 l.p.:	1 Col:1 Sel:0	(0 bytes) in 0 range	<	Dest	Windows ANSI INS //
	inz rendi:	s mejen i		to by cosy in or drige		0031	

Please note the field names as they are useful when selecting the Autosync option when importing with **Option 40**.

# This picture shows an Excel spreadsheet with the first row containing column headings.

	Importing E	OMs Overview							
If you plan to import a multi level BOM or all your BOMs at once. The file you are importing from must be structured as shown below. If you are importing a single level BOM, the BomNo and BomDescri fields do not need to be included (pc/MRP will ask for these values). If the part number does not exist in pc/MRP's Partmast Data Base File, pc/MRP will add it along with the part description found in the PartDesc Column. If the part description found in the PartDesc Column.									
	Σ · <sup>*</sup> Arial · I0 · B <i>I</i> U ≡ ≡ ≡ ፼ \$ % , t ∉ · idata or pc/MRP								
A	& bomno B C	D E	F G						
1         bomno         bomdescri           2         000000010         WHEEL AS           3         000000010         WHEEL AS           4         000000010         WHEEL AS	SSY 00000002 SSY 000000013	BEARING, 3" OD x 1" ID         1           SPOKE         40           LABOR INSIDE         10	L						
	SSY 000000014 EEL AXLE ASSY 000000003 EEL AXLE ASSY 000000010								
Ready If you are importing a single level BOM, the BomNo and BomDescri	If the BOMs you are importing include labor, Part_Assy =	Please Note: In this multi level BOM example, the Rear Wheel	If the Part_Assy Column is not included, all part numbers not found in the Partmaster will be inserted as "P" Parts into the Partmaster (If you are on version						
Columns are not required as pc/MRP will ask for the BOM Number and BOM Description.	"L". If it is inside labor OutSource = FALSE or ommitted. If it is outside labor <u>OutSource = TRUE</u> ( a Level Column, call Software Ar	Axle Assy (000000011) requires 2 Wheel Assemblies (000000010)	8.72B through 8.90Y update to 8.90Z or 8.95L and higher). The Audit Inventory Program can be used to insert A's into all parts that are listed as BOMs in the						
	55/mportBomLevels.prg (not in Sou		BOM.DBF File.						

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. (**8.95K** and above) 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.

### 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 A	SSY	MODEL NO:
DATE	:04/05/2011 02:18:	03 PM	
QTY	:1.0000		
UNCOSTED EXPLOD	ED LEVEL BOM REPOR	RT	
P/B ITEM BOM/PART	NUMBER	DE	SCRIPTION
PART 0002 0000000	03	REA	AR AXLE
BOM 0001 0000000	10	WHE	CEL ASSY
.PART 0001 000000	001	BEA	ARING, 3" OD x 1" ID
.PART 0002 000000	002	SPO	DKE
.LABR 0003 000000	013	LAP	SOR INSIDE
.LABR 0004 000000	014	LAP	SOR 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 000000010 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)

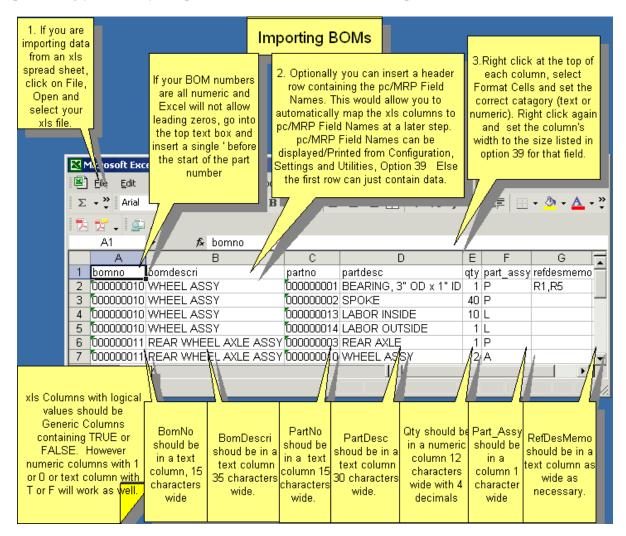
QTY - The quantity of the item needed in that specific level to finish that specific level. KEY FIELD (numeric, 7.4; this is total 12 characters including the decimal point)

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.



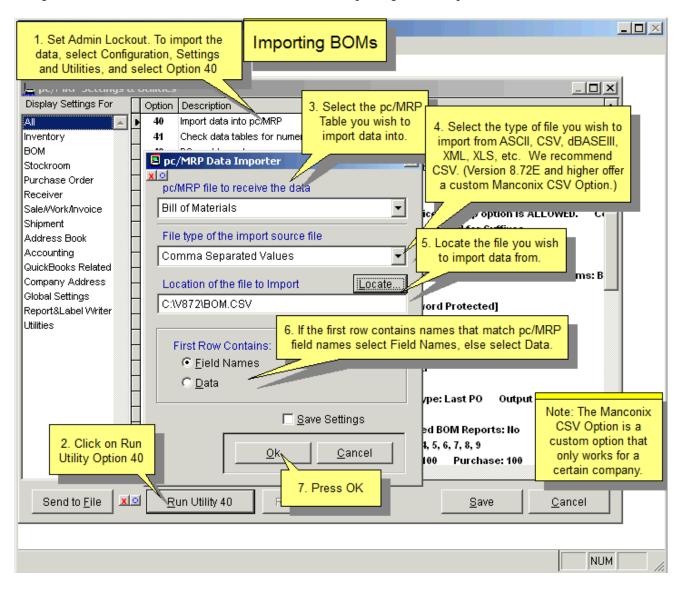
Note: The Excel file should NOT have any hidden columns or frozen panes.

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.

NTER .	:\ <b>V854 (User: DOUG</b> Tools Optional Conf	line o iti	ng BOMs	
	📕 pc/MRP Data Im	porter		×
	Bill of Materials	Database Structure		Import File
Dis	Field Name	Purpose	Filled By	Field Name
All Inve BOt Stor Purr Rec Sale Adc Adc Adc Quir Con Glol Rep Utilit	BOMNO BOMDESCRI PRODCODE CATINDEX PARTNO ITEMNO QTY PART_ASSY REFDES REFDES2 REFDES3 REFDES4 ALTPART1 ALTPART2 ALTPART3 ALTPART4 ALTPART5 ALTPART6 REFDESMEMO IZEVID	BOM Number BOM Description *** Not Used *** Part Number BOM Item Number Quantity per Assembly Part, Assembly, or Labor *** Not Used *** *** Not Used *** *** Not Used *** Alternate Part Number 1 Alternate Part Number 1 Alte	BOMNO BOMDESCRI PARTNO QTY PART_ASSY 1. Since the first row has column names that match pc/MRP's field names, Autosync will automatically map the columns to the pc/MRP fields. If the first row contained data you would have t manually map the columns on the right to the pc/MRP Field Names o the left by clicking on the left columns and double clicking on the pc/MRP Field Names on the right Utosync Clear All	BOMNO BOMDESCRI PARTNO If you are importing and one or more BOM Description Fields are empty. Version 8.72K and higher WILL NOT let you import. Prior to that, pc/MRP would ask you to enter a description and press OK. It would then enter that description into every record with an empty BOM description. If you pressed OK and not Cancel the descriptions would remain blank. With all versions of pc/MRP, if you are importing and every BOM Number is missing, pc/MRP will ask you to enter the BOM Number. WARNING! "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 was removed in 8.72 and added back in 8.82G and higher. If you
In_data (c:\	2. lf y	urrent records and insert new reco ou are adding to a table, select ALL existing BOMs and repla	Append. If you wish to	select "Remove", Version 8.82G and higher will copy the current BOM table into a subfolder named "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.

🗵 pc/MF 🗡			With pc/MRP Versions	
Display Se	Bill of Materials	Database Structure	8.72E and higher the	Import File
All Inventory	Field Name	Purpose	following part information can be imported into the	Field Name
BOM	PARTDESC	Used for Importing Only	partmast database file.	PARTNO
Stockroom	MANUFACTER	Manufacturer 1	provided the part does not	ITEMNO
Purchase	MODELNO	Model Number 1	already exist in the	QTY
Receiver	REVLEVEL	Revision Code	partmast file.	PART_ASSY
Sale/Work	POUNIT	Purchase Order Unit		REFDES
Shipment	PORATIO	Purchase Order Ratio		REFDES2
Address E	UNIT	Stocking/Sales Unit		REFDES3
Accountin	MINQTY	Minimum Stocking Quantity		REFDES4
QuickBook	MAXQTY	Maximum Stocking Quantit		ALTPART1
Company.	LTIME	Lead Time (in weeks)	· /	ALTPART2
Global Set	SALEPRICE	Sale Level 1, Price Level 1		ALTPART3
Report&La Utilities	LOCATE	Location in Primary Stores		ALTPART4
ounnes	STDCOST	Standard Cost		ALTPART5
	VENDID	Vendor Address ID		ALTPART6
	VENDNAME	Vendor Name		REFDESMEMO
	RECEIVE	Receive inspection require	d / b	KEYID
	MFG	MFG Return inspectn requi		
	INVOICE	Invoice inspection required	Warning: If you import VendiD or V	
	SHIP	Shipping inspection require	8.95 or 8.96, pc/MRP will mark p deletion. They can be restored by	
	XFERAREA	Xfer area inspectn Require	"recall all" at the command line. Ver	
	,		higher no longer list nor import Ve	
		er includes a progress bar and w	vill import	Cancel

**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. ved 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. Let's say the new BOM has y3 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

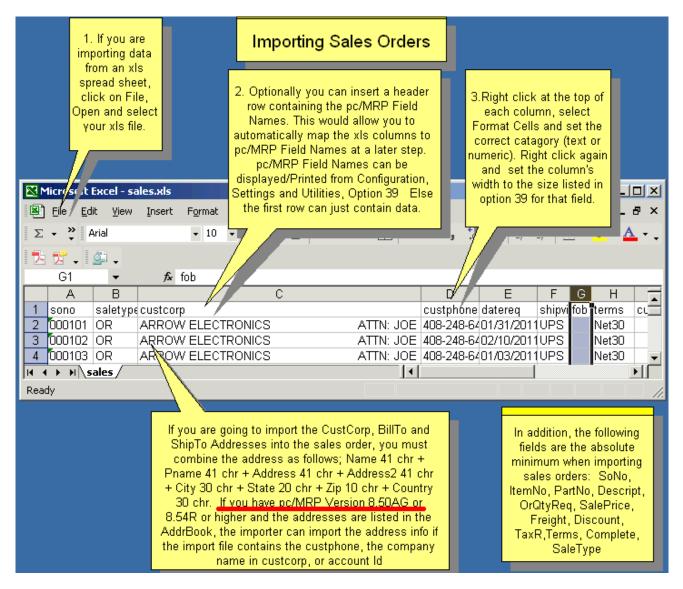
# 15.11.6 Sales Orders

Step 1 Use Option 39 to print out the sales.dbf file structure.

VFP - C:\V850 (User: DOUG)     Modules Tools Optional Configuration Mar Selecting Configuration, Settings and Utilities, Option 39, and SALES.DBF will allow you to display or print the									
ADDRBOOK.DBF File Structure as shown below.									
Display Settings For       Option       Description       Setting         All       39       Print/Display the file structure for a selected DE [Utility]         Pr/MRP Table Structures       RP       [Utility]         r numeric field overflows       [Utility]         C Actual Table Structure       Scroll         ving area       Prompt for the area when receiving         efaults       Import Cost: Average       Quantity to is									
Dictone     SALES	Z:\ <b>V8</b> File Edit	50\STRUE Search		Language Setting	ad++ Is Macro Ri ≧ #11 ₩2	3 3	🖪 🔚 1 플 🥥   💽 🛸		
. o ₪ 1 mtil 0 	2 3 4 5	Dicton	SALES.TXT 🔀 📕 ary Table St y Module: Sa	ructure for					
Output Fo	6	====== Field 		Туре	Width	Dec	Purpose		
	8 9 10	1 2 3	- SONO CUSTCONT SALETYPE CUSTCODD	Character Character Character	6 20 2	0 0 0	Sales/Work Order Number Customer Contact Type of Sale		
Ē	11 12 13 5444 chars	4 5 6 s 5622 b	CUSTCORP COMMENT CUSTPHONE Ln:30 Col:19 S	Character Memo Character 5el : 0 (0 bytes) in (	254 4 25 ) ranges	0 0 0	Customer Address Comments for item Customer Phone Number		

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

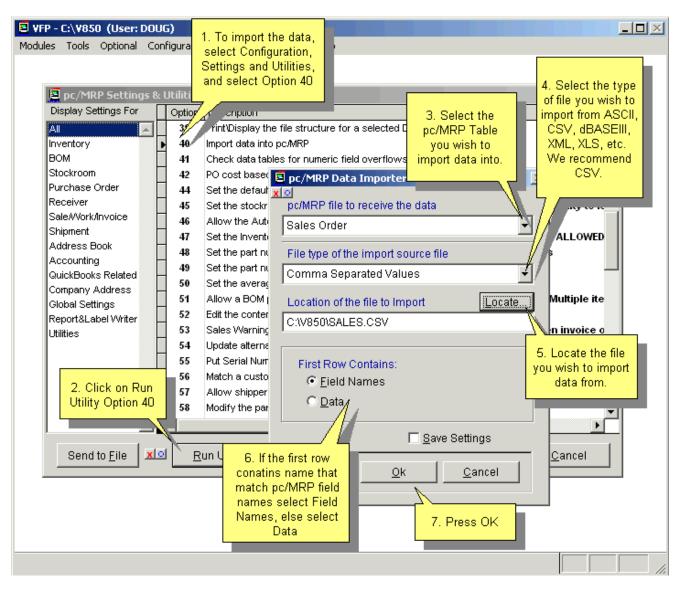


Please note that the structure of the CustCorp, BillTo, & ShipTo fields are concatenated fields described in Section 15.4.4.2.

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		1
	🖣 pc/MRP Data In	nporter		×
Dis 🗡	Sales Order	Database Structure		Import File
All	Field Name	Purpose	Filled By	Field Name
Invi BO	SONO	Sales/Work Order Number	SONO 🧧	SONO 🔼
Sto	CUSTCONT	Customer Contact	CUSTCONT	CUSTCONT
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
Adi	BILLTO	Bill-To Address	BILLTO	SHIPTO
Aci	SHIPTO	Ship-To Address		
Qui	DATEREQ	Date Required		v has column names that match
Cor	SHIPVIA	Ship Via (UPS, FED EX, etc)		, Autosync will automatically m
Glo Re:	TERMS	Freight on Board Sale Terms		pc/MRP fields. If the first row
Utili	CUSTPONO	Customer PO number		would have to manually map the
	ORDERDATE	Date Order wa		o the pc/MRP Field Names on t eft columns and double clicking
	SALESMAN	Salesman Save Restore		Field Names on the right.
	TERRITORY	Sales Territon Import Import		feid Names on the fight.
	ITEMNO	Item Number Map Map		IDESCRIFT
	DESCRIPT	Item Descripti	RIPT	BRODCODE
	PRODCODE	*** Not Used *	RODCODE	_
	CATINDEY	*** Not Lload ***		VVARNING! "Remove currer
		🗎 🚔 🎽 🗖 🖉	tosync C <u>l</u> ear All	records and insert new recor
	- Import Mothed			does just that. It will delete
	Import Method			the records in the current
		ew records to the data table		ok database and then only add
	. Hempser	urrent records and insert new reco	rasj ——	📩 new records! This Option w
		you are adding to a table select ،		removed in 8.72 and adde

**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.

### 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.

## 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:** 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. The program 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	Windows	- Version 8.73	M (User: K	К)						_ <b>_ _</b> ×
Module	es Tools	Optional	Configuration	Manual							
🚊 po	:/MRP S	Importati	on Warning								1
Displa	ay Settini		You have sele	ected to imp	port data inte	o one or m	ore infinite le	ength (Mei	mo) fields.		Ĩ
Invent BOM Stock Purch		<u> </u>	These fields r This required increase the p	parsing pro	ocess is very	slow on la					
1	pc/MRF		It is estimated	d that impor	tation of your	current file	e will take 1 H	lour, 29 Mi	nutes to con	nplete.	
4 E	Bill of Ma		If you are sure the parsing p						racter limit, y	you can t	oypass
I	Field Na REFDE		lf bypassing, j	please note	that any exc	ess field d	ata will be cu	it-off at 254	characters.		
i I	REFDE ALTPAF				) the Memo fi		[Very slow	a.,			
	ALTPAF ALTPAF ALTPAF		C None o	f my fields e	exceed 254 c	haracters.	[By-pass t	he special	parsing pro	cess]	
	ALTPAF				<u></u>	<u>i</u> K	<u>C</u> ancel				
	REFDE		Referance Des Jnique Key (S)			REFDESN	IEMO		-	] . (	Cost Roll-ı
	Autosync Clear All << Select										Area7, Are
pc/MRP Version 8.73M and higher.											
S	end to <u>F</u> i	ile	<u>R</u> un Utilit	y 40	Revert Opti	on 40			<u>S</u> ave		<u>C</u> ancel
n_data	a (c:\users	\richard\ap	pdata\local\temp	o\55543238.d	dbf)	Record: EO	F/61025	Exclusive		N	им и

# 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 Excel columns may be right justified.
  - All Excel text columns should be left justified. To left justify all Excel columns, press Ctrl-A. Select Left Justify, in the Excel Toolbar located above the spreadsheet.
- 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 required in pc/MRP.
- You get an error that the imported file needs exclusive assess to the file.
  - 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		
x0 •	Weve noticed that your software has not been updated recently. Keeping your software up to date ensures that you have all the features and fixes available. To find revisional updates for your current version, <u>Click here.</u> For information on the newest version of the software, <u>Follow this link.</u>		
	Remind me the next time Hogin Remind me the next time Hogin Remind me temmerrow Remind me in une week Remind me in two weeks	Close In versions 8.20 and above, this pops up if you have not updat within the last 60 of Choose 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 (versions 8.95G and above).

### **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 Database					_ <b>D</b> ×
Indexed Search (Fastest)		Queried Search			
Field	Not	Operator	Value	Match Case	Query Type
Id		Equal To 📃 💌	ŕ		Exclusive
Name		Equal To 📃 💌	·		Run <u>Q</u> uery
Pname		Equal To 📃 💌	·		
Address		Equal To 📃 💌	·		🖻 🖪 🗙
ld		Name		Pname	Addres 🔺
	€ ⊻iew C <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.

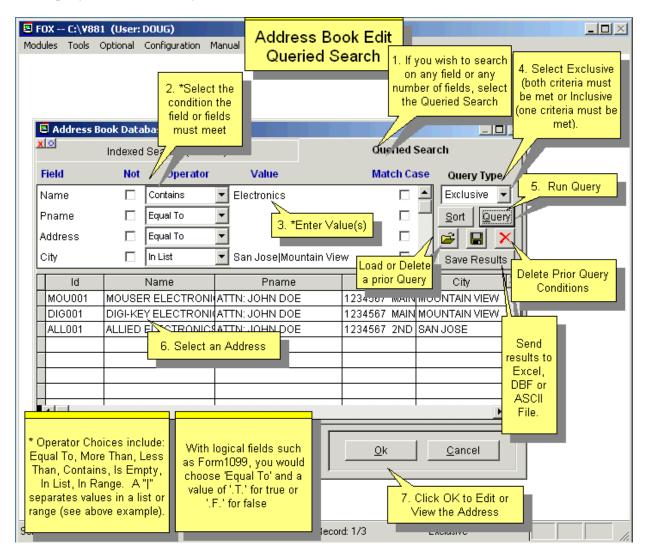
**'Contains'** does not use the "|" as there is only one value that 'Contains' looks for in the field. You can even have a value of "this and that" and it will find the exact data string <u>wherever it is located in the field.</u>

'In a Range' is for from/to values; E.G. Name, In a Range, "and|ann". Will return all <u>starting</u> values from 'and' 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' or '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. To run the query click on the Query button.



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	i Ca	se
Pname		Contains	•	JOE			
Address		Equal To	•			Γ	
City		Equal To	•	San Jose		Γ	
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	X
Name of Query JOE_1	
Query Description	
SEARCH FOR JOE NOT IN SAN JOSE	A P
✓ 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.

📮 Load Query		×
Available Queries	Creator	
CUSTOMER REFERENCES	DOUG	<b>A</b>
Customer references	RON	
JOE_1	BRENT	
REFERENCES	DOUG	-
Query Description		
SEARCH FOR JOE NOT IN SAN JOSE		×
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.  $\ensuremath{\text{pc/MRP V9.10}}$ 

### 15.14.2 Indexed Searches

and Edit Preferences. Save Settin Color Coo Go Top Go Bottor	Search y way to ess. bk Databe Sort Order Serial Number) Sort Order Company Name Company Name 2. Enter first or Description of the second s	Queried Search Include No Selections Search Search
Right Click Color Code to	Company Name	Attention:
display the BC001	ARRO 4. Select Address	ATTN: JOESPH CARTRIGHT THE 3R
color BC001	BBC Mar PANY	ATTN: JOE SMITH
definitions. AL001	CA STATE BOARD OF EQUALIZATION	ATTN: DEPT 99
AN001	CANA MANUFACTURING CORPORATION	ATTN: JOESPH CARTRIGHT THE 3R
LIG001	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.

#### 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. Versions **8.80C**, **8.81D** and above default to not include memo fields.

# 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.

	The pc/MRP application is about to undergo system maintenance.				
$\langle ! \rangle$	Please finish any tasks currently in progress and exit the application.				
$\checkmark$	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.				
	terriniate and any drisaved changes will be rost.				

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.



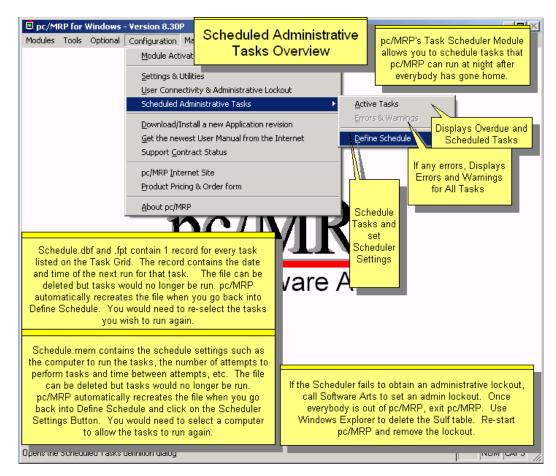
# 15.15.3 Remove the Admin Lockout

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 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, Reschedule option and Interval Settings

Press the Scheduler Settings Button to go to the screen 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.

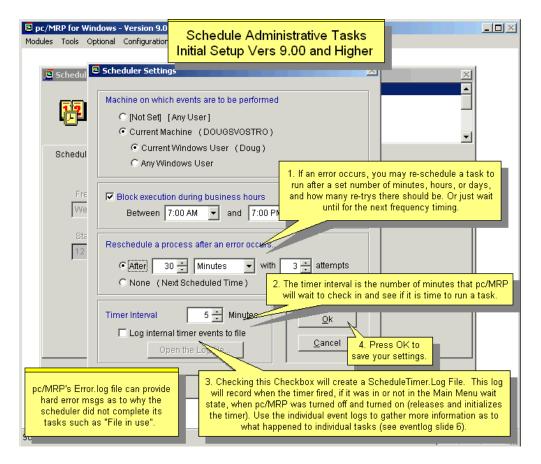
The new scheduler computer and user must log into pc/MRP and then:

- 1. Select Configuration
- 2. Select Scheduled Administrative Tasks
- 3. Select Define Schedule
- 4. Press the Scheduler Settings Button
- 5. Select Current Machine
- 6. Press the OK Button
- 7. Press the OK Button again
- 8. The main screen of the new user will display Scheduler Enabled.

If you go back to this screen, the [Not Set] option will not be available. Instead the scheduler computer will be displayed in the first row.

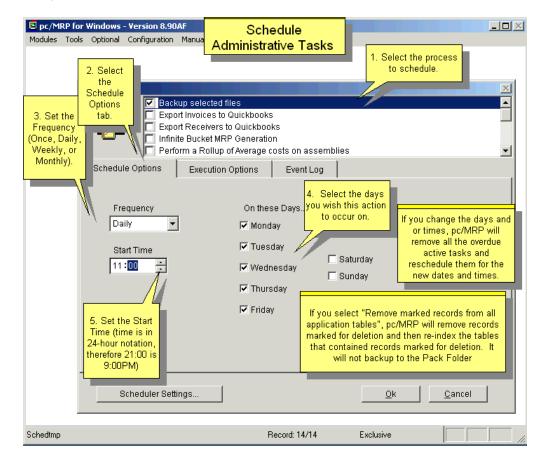
Dec/MRP for Win Modules Tools O	Schedule Administrative Lasks	
Schedul	Scheduler Settings       Image: Comparison of the security of the secu	
Schedul	<ul> <li>[Not Set] [Any User]</li> <li>Current User</li> <li>Current Machine (DOUGSVOSTRO)</li> <li>Current Windows User (Doug)</li> </ul>	
Fre	C Any Windows User	
We Sta	Between 7:00 AM  and 7:00 PM	
12	<ul> <li>● After 30 → Minutes → with 3 → attempts</li> <li>○ None (Next Scheduled Time)</li> </ul>	
	Description     Description       Description     0k       Open the Log file     Cancel	
SCI	duler Settings <u>O</u> k <u>C</u> ancel	
Schedtmp	Record: 14/14 Exclusive NUM	

The Task Scheduler execution can be limited to a specific windows user on a specific computer (8.83D and above).



#### 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.



# **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.

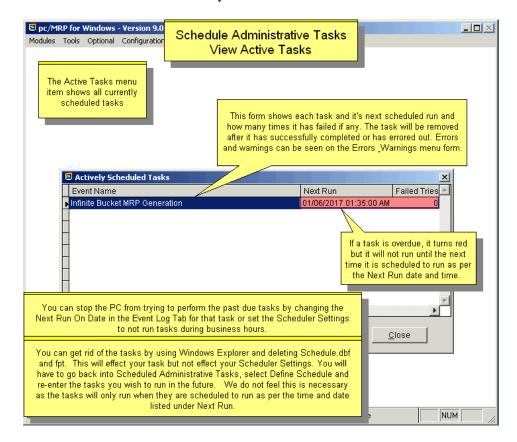
# 15.16.4 Scheduled Task's Event Log

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.

pc/MRP for Windows - Version 8.3 Modules Tools Optional Configuration	Schedule Administrative Event Log Tab	Tasks	_O×
Update Alternat Update Custon	n Time Between Failure (MTBF) on as le Part Numbers on BOMs her account balances in the Address on Demand quantities in inventory Order quantities in inventory	One of the tasks selected t 'Update the On-Demand d inventory'.	
Schedule Options Executi	on Options Event Log :48 PM Next Run on: 10/31/2008	3 02:56:00 PM <u>P</u> urge L	.og
Beginning process at: 10/30/2008 At the pre-scheduled time, the task ran and completed		C2-56:48 PM f the Next Run on is the sami time, it would be because this vas scheduled to run only one Please Note that if t PC was off during the turn it on in the mom that it has schedule were not performed. to run the schedule startup. You can sto trying to perform the by changing the Nexc as shown above Scheduler Settings to during busines	s task e time. he Scheduled e night and you nign, it will see ed tasks that It will attempt d tasks upon og the PC from past due tasks t Run On Date or set the o not run tasks
Schedtmp	Record: 8/14	Exclusive	NUM //

#### 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 Schduler

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 - Ve Modules Tools Optional Co	Schedule Administrative Lasks	_ 🗆 🗙		
[ Scheduler Enabled ]		_		
	You can simply uncheck all of the Tasks. However the Scheduler Enabled Words will 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.	5		
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 would 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 assigned 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			
	NU	M		

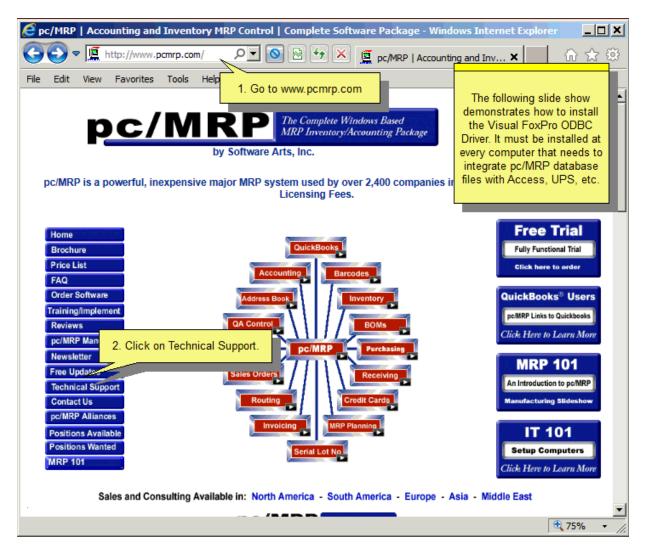
# 15.17 Creating a pc/MRP VFP ODBC DSN

#### 15.17 Overview

A slideshow is available at: http://www.pcmrp.com/mrp101/odbcopeninternetexplorer.htm

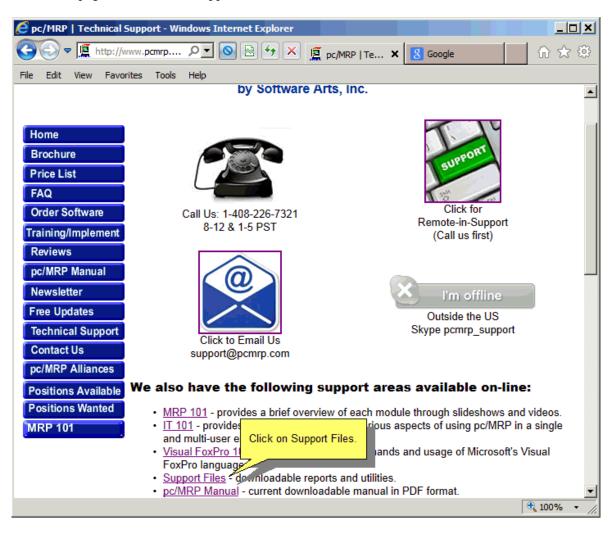
pc/MRP product is written with Microsoft's Visual FoxPro. For better security and data reliability, pc/MRP uses the native Visual FoxPro database structure instead of a dBase-III structure. This requires the use of the Microsoft ODBC drivers for Visual FoxPro tables if you use a program such as Excel, 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 Drivers</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.

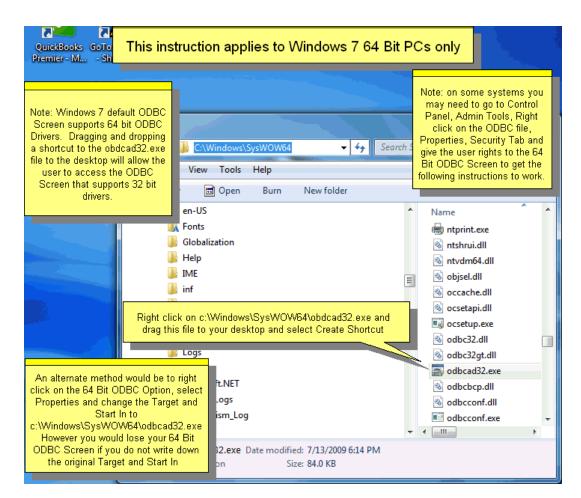
This will take you to Microsoft's web site for the download.

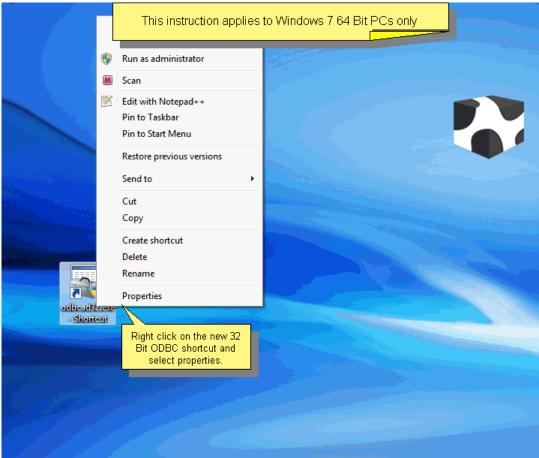
Windows XP and higher may have already installed the Visual FoxPro ODBC drivers as a part of the operating system. You can verify this by going to Step 5 (Section 15.17.5).

#### 15.17.4 Step 4 Download the file and run it.

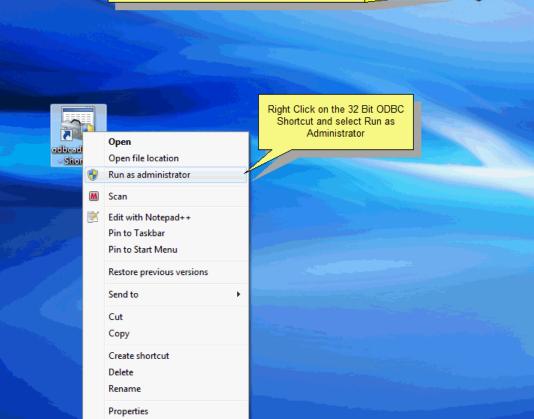
Double-clicking in the VFPODBC.msi file will automatically start the install process.

Note: The next 2 pages apply Windows 7 64 bit computers only.





General Security Tab es General Snortcut Security Details Object name: C:\Users\doug\Desktop\	Compatibility Previous Versions ovodbcad32.exe - Shortcut.
Group or user names: SYSTEM doug (dougsgateway\doug) Administrators (dougsgateway\Admini	nistrators)
To change permissions, click Edit. Permissions for doug	Make sure the user has rights to the ODBC Sceen. If the user does not have rights, Press the Advanced Button, and Change Permissions to give the user rights to use the 32 Bit ODBC Module.
Full control Modify Read & execute Read Write Special permissions	
For special permissions or advanced setting click Advanced. Learn about access control and permission	Auvanceu
	on applies to Windows 7 64 Bit PCs only

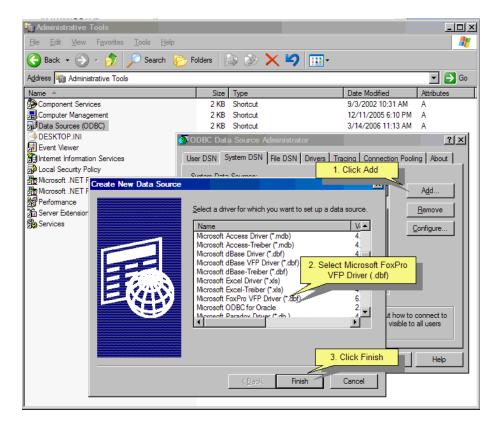


#### 15.17.5 Step 5 After the install is complete, start the Data Sources (ODBC) menu.

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.

Administrative Tools File Edit View Favorites Tools Help Back - () - () Search ()	Creating a pc/MRP ODBC Data Source	
Address Administrative Tools		🗾 🔁 Go
Name A	Size Type	Date Modified Attributes
Component Services	2 KB Shortcut	9/3/2002 10:31 AM A
Computer Management	2 KB Shortcut	12/11/2005 6:10 PM A
Data Sources (ODBC)	2 KB Shortcut	3/14/2006 11:13 AM A
DESKTOP.INI	ODBC Data Source Administrator	? ×
Event Viewer		
Internet Information Services	User DSN System DSN File DSN D	Irivers Tracing Connection Pooling About
Local Security Policy	System Data Sources:	
Microsoft .NET Framework 1.1 Configuration	System Data Sources.	
Microsoft .NET Framework 1.1 Wizards	Name	Driver Add
ODBC Visual FoxPro Set		Name Remove
Server Extensions		
Data Source Name: pcl	MRPVFP 2. Enter Des	OK <u>C</u> onfigure
	Z. Effler Des	
Description: pc	MRP VFP Database Files	5. Press OK
<b>D</b> · 1 · · ·	3	. Check Free Tables
Database type		
C <u>Vi</u> sual FoxPro datab	ase (.DBC)  © Free Table directory	
Path:		v to connect to
c:\pcmrpw	Brç	owse Options>> le to all users
If the folder is hidden, you		
may have to type in the	ОК	4. Locate your pcmrp directory (on the
path and folder name		server for multi-user installations). If you
		are in the pc/MRP folder, the browse
		window will display pc/MRP's dbf files
		that the ODBC will extract 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.

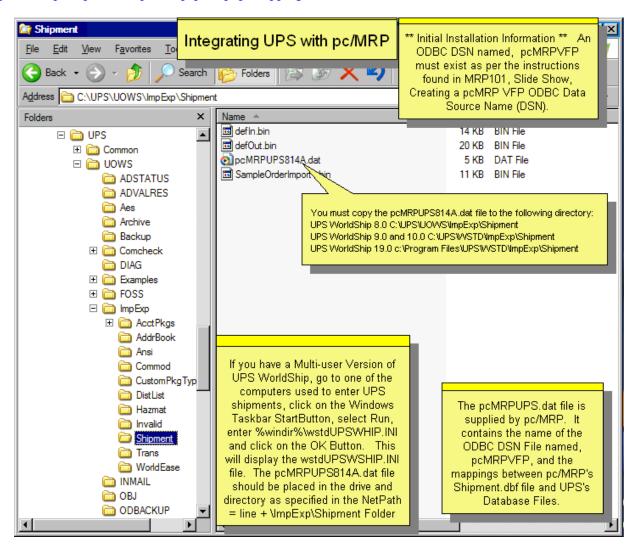
# 15.18 pc/MRP Integration with UPS WorldShip

### 15.18 Overview

A slideshow of the UPS Import/Export Wizard is available at: <u>http://www.pcmrp.com/mrp101/ups2integrateconfigurationsettings.htm</u>

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>



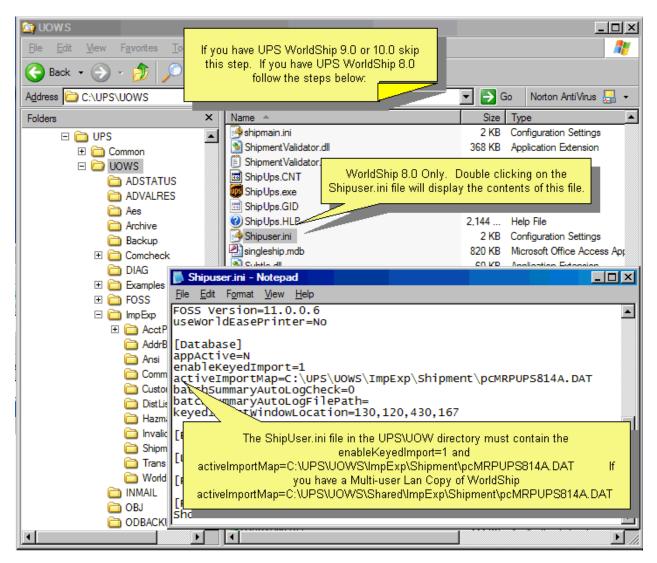
**Note:** You must have already created your ODBC connection to pc/MRP (see Section 15.17). UPS WorldShip version 8.0 or above must be installed on your computer or accessible via the LAN.

**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.

15.18.3 Step 3 Modify the Shipment Module Settings.

FOX -	- C:\V814 (User: DOUG)
Modules	<u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual De <u>v</u> eloper <u>H</u> elp
🗅 🖻	
🔄 pc/N	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 & Purchase: Inventory Sales: Inventory
79	Get labor hours from employees time sheets when r No Labor Rate: Derived from Average Rate (Option 6)
80	Set the Logbook Options Prefers Mircosoft Word 2. Select Manual (if you want to
81	Salesman & Commission source setting Shipment Module Settings (Opt generate UPS Shipping Records
82	Mark SO/WOs with an ISSUE SUBS ONL
83	Add, Edit, or Delete the Terms & Conditic These Settings affect the Provide after entering each
84	Dedicated work orders can be issued for
85	Seriso 9000 vendor Penormance Days
86	Set DBF file output format This module can be configured maucany generate a shipment document wheneve voice is created.
87	1. Select Option 89
89	Palows you to specily bining
H °	Shipment module settings O Manual Generation Option and Package Type.
H	
H	$\Box$ Open the shipment for <u>e</u> diting after generation.
H	3. Enter your UPS #
H	UPS Account Number: WX0164
li d	4. Press OK
Chai	Ige Option 89 Revert Option 89 Ok Cancel
Configtmp	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.

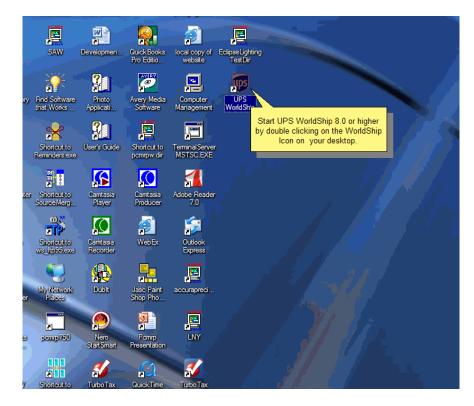
You can also open or not open the Shipment record for editing automatically.

Enter your company's UPS number in the space provided.

Pressing OK saves the settings.

#### 15.18.4 Step 4 Save the changes to the Shipment module settings.

Click on Save to save your changes. Exit or minimize pc/MRP.



# 15.18.5 Step 5 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.

UPS WorldShip	1. Select Tools					_ 🗆 🗡
<u>File Edit Activities</u>	Tools	OnLine Connect	<u>W</u> indow	<u>H</u> elp		
Shipping Log C	Address Book Editor	Shift+F9		×		? EXIT
Shipping Log C	Address Lists Editor	1	Undo	Void	End of Day	Help Exit
	⊻alidate Ship To Address	F8		- <u>_</u>	,	
Ship To Ship From		or tio	ons Deta	il Referen	ice	
Customer ID:	Charge Back Code Editor					
	Commodity <u>E</u> ditor				Package -	
Company or <u>N</u> ame:				P	ackage T	Type:
	Pro <u>f</u> ile Editor	ir			Package	<b>_</b>
Attention:	<u>R</u> eference Rate Utility		N. 10			
	Required Field Set Editor		Delivery	D	eclared V	/alue: \$
Street:	Shipper Editor	Т	ime:			
	Tab <u>O</u> rder Editor	n:		F	Reference	Number <u>1</u> :
Room/Floor/Addres	Task Schedule Editor			-		
Hoom/Hoor/Addres	Communications Setup	in	d Party	_		(Printed on Label)
	System Preferences		a raity	F	Reference	Number 2:
Country:				I [		
United States	2. S	elect System Pr	eference	es 📕 🖞		
<u>C</u> ity:	State/Prov:			_		(Printed on Label)
	<b>_</b>	Weight (poun	ds)		Shipment (	Cost
Telephone:	E- <u>m</u> ail Address:	Package:	Shipme	nt:		
() - []			0.0	D	¢	0.00
UPS Account Num	ber: Tax ID Number:				Ψ	0.00
		Electronic	Scale Act			
Shipper:	Profile:	Pkg: R I	1	<b>N</b> Is	NEW [[	Process
WX0164	▼ UPS Standard ▼					Shipment
		<u>A</u> dd 1	Pkgs _	<u>D</u> elete F	'kg	Êlû
1				Ver: 9.0		Pending: 0 Shpmt(s),
				Ver. 0.0.	IN NOFT	prending, d oripinit(s), 2

# 15.18.6 Step 6 Set up the UPS WorldShip System Preferences.

Select Tools and System Preferences and follow the setup instructions starting in Step 7. Page 598

# 15.18.7 Step 7 The UPS WorldShip System Preferences screen.

WIPS WorldShip® File Edit Activities Tools UPS Web Access UPS Online Connect Window Help	<u> </u>
WorldShip@         File       Edit       Activities       Loss UPS Web Access       UPS Online Connect       Window       Heb         System       Preferences       Editor       1. Select the MiscTa         Hardware       Printing Setup       Shipment Detail Report Setup       Miscellaneous         Address Options       Display Help       Address Book       Show Help Topic at Statup         Secondar       2. Make sure the "Always Update       Ished & Reference Bates         Street       Address Book'       Checkbox is unchecked.         First Entry Field       Erequency Reminder in days:         © Company or Name       Quays of Shipments Retained         Deformer ID       Get Latest ZIP+4® Updates         © Notfly Before Updating       Pickup Date Selection         © Not Ugdate       Pickup Date Selection         © Database Options       If Compact Database at Statup	
	Shpmt(s), 0 Pkg(s), Cc //

Select the Miscellaneous tab and ensure the Address Options for Always Update Address Book is not checked.

UPS WorldShip®	1. Delect Tools			
<u>File E</u> dit Acti <u>v</u> ities	Tools	OnLine Connect Window	<u>H</u> elp	
Shipping Pickup C		Shift+F9	Void Day Hel	
Ship To Ship From Customer ID:	Validate Ship To Address ANSI Reference Qualifier Edito Charge Back Code Editor	F8 pr tions De	tail Reference	
Company or <u>N</u> ame:	Commodity <u>E</u> ditor Pac <u>k</u> age Type Editor Profile Editor		Package Package Type:	
Attention:	<u>R</u> eference Rate Utility Required Field Set E <u>d</u> itor Shipper Editor	/ Delivery	Declared Value:	s
<u>R</u> oom/Floor/Addres	Task Schedule Editor	Select Required Fields		ber <u>1</u> : rinted on Label)
Country: United States	Communications Setup System Preferences	ird Party	Reference Num	
<u>City:</u>	State/Prov:	- Weight (pounds)	(P	rinted on Label)
Telephone:	E- <u>m</u> ail Address:	Package: Shipm		00
		Electronic Scale A	ctivated	
Shipper: WX0164	Profile:	Pkg: H 1 Add 1 Pkgs	Delete Pkg	Process Shipment FI0
			Ver: 8.0.14 XOFY Per	nding: 0 Shpmt(s), //

15.18.8 Step 8 Set the required fields in UPS WorldShip.

Select the **Tools, Required Field Set Editor**, as you will be verifying fields in the next screen. pc/MRP V9.10

# 15.18.9 Step 9 Required Field Set Editor.

UPS WorldShip®	
File Edit Activities Tools UPS Web Access UPS OnLine C	onnect Window Help
Pickup 🌌 🧕 🛄 Address Send to	
Required Field Set Editor	? ×
Required Field Set Editor	Required Field Set Name:
Choose fields required for shipping, save them as a Required	
Field Set, and assign it to a profile in the Profile Editor.	Save
Optional Fields:	Optional Fields Now Required: Delete
Reference: Reference Number 1	
Reference: Reference Number 2	Clear All Data
Reference: Reference Number 3	
Reference: Reference Number 4	
Reference: Reference Number 5	
Ship From: Attention	<u>C</u> lose
Ship From: Customer ID Add All ->	
Ship From: Department/Address 3	<u>H</u> elp
Ship From: Fax Ship From: Room/Floor/Address 2	
Ship From: Tax ID Number <- Remove	
Ship From: Telephone	
Ship From: UPS Account Number	
Ship To: Attention Ship To: Customer ID	
Ship To: Lustomer ID Ship To: Department/Actess 3	
Ship To: E-mail Address	
Ship To: Postal/Zip Co Make sure the "Ship To: Custome	
is not selected as a Required Fig	eld.
	I Delite Plan
Ad	d 1 Pkgs Delete Pkg
For Help, press Shift + F1	Ver: 8.0.14 XOFY Pending: 0 Shpmt(s),
ror help, press Shift + FT	ver: 8.0.14 (XOFT (Penaing: 0 Shpmt(s),

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.

Click the 'Save' button to save the changes and exit the Editor screen.

🚾 UPS WorldShip®		
<u>File</u> <u>Edit</u> Acti <u>vi</u> ties <u>T</u> ools UPS Web Access UPS C	DnLine 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 Customer ID:	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: \$
Room/Floor/Address 2: Department/Address 3:	Billing Option: Prepaid	Reference Number <u>1</u> :
	Bill to Third Party	(Printed on Label) Reference Number 2:
Country: Postal/ZIP Code ®: United States		
<u>C</u> ty: State/Prov:		(Printed on Label)
Telephone: E-mail Address:	Weight (pounds) Package: Shipment:	Shipment Cost
UPS Account Number: Tax ID Number:	0.0	\$0.00
	Electronic Scale Activated	
Shipper: Profile:	Pkg: H 🖪 🕨 🕅	is NEW Process
WX0164 UPS Standard	Add 1 Pkgs Delet	e Pkg
For Help, press Shift + F1	Var: 9	.0.14 XOFY Pending: 0 Shpmt(s),
ror riop, proce of inc + r r	VCI. 0	totter prost in promoting, or oripinit(s), //

# 15.18.10 Step 10 UPS Set Up is Finished, Click 'Exit'.

<b>IPS WorldShip<sup>®</sup></b> File Edit Activities <u>T</u> ools UPS Web Access UPS C	) nLine Connect Window Help	_ <u>_</u> X
Elle Edit Activities Tools OF Swed Access OF SC Shipping Pickup Create UPS.com Tracking Activities Shipping	Senaito Repeat Undo Void	Enclor Doy Help Exit
Ship To       Ship From       Distribution         Customer ID:       Update Address Book         Residential Address         Company or Name:         Attention:         Street:         Boom/Floor/Address 2:         Department/Address 3:         Country:         Postal/ZIP Code @:         United States         City:         State/Prov:         Telephone:         Email Address:         () - []         UPS Account Number:         Tax ID Number:	Service Options Detail Re- Shipment UPS Service: Next Day Air Saturday Delivery Guaranteed Time: Billing Option: Prepaid Bill to Third Party Weight (pounds) Package: Shipment: O.0	Click on Exit.  Package Package Type: Package Declared Value: \$  Reference Number 1:  (Printed on Label) Reference Number 2:  (Printed on Label) Shipment Cost \$0.00
Shipper: Profile: WX0164 VUPS Standard V For Help, press Shift + F1	Add 1 Pkgs Delet	is NEW Process Shipment Flo

15.18.11 To add international UPS shipping methods to the 'Ship Via' Drop Down Box.

Modules Tools Or Option 52 UF	S WorldShip Adding International Options
	o add International UPS Shipping methods to the Ship Via Drop Down Box, select Option 52 and press the Run Utility 52 Button.
Display Settings For Option Deservices	
	tent of various list boxes [Utility]
Inve Bot	2. Select Ship Via     DM des [Utility]
Stor List Type	Ship Via definition 4. Enter UPS Shipment
Pun Ship Via 🗨	3. Select New Method.
Sale List Content	Carrier UPS 8. Billing Usually Shinment Method
Add FedEx::FedEx Ground	New t Shipment Method Worldwide Express Pre-Paid
Acc FedEx::FedEx Home Deliver Quin FedEx::1 Day Freight	Edit It Package Types Billing Options
Con FedEx:2 Day Freight	Rem Package Types
Gloi FedEx::3 Day Freight Rep Over the Counter	UPS Letter 6. Check all valid
Utilit UPS::Next Day Air Early AM	Package Package ime
UPS::Next Day Air UPS::Next Day Air Saver	OF UPS Tube
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# 15.18.12 To set up pc/MRP to import UPS tracking numbers follow the instructions below

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# 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.

1	User Password	d & Access Right	ts						_			
	User Name	Password	Employee ID	Last U	pdate	Inventory	BOM	Stockroom	Address	Pur 🔺		
	AAA	*	000001	11/06/2	2012	E	С	N	N	۷		
	кк			12/13/2	2012	V	V	V	E	Ν		
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_				N V C E D	None View Creat Edit / Delet	ion Create				_		
		1		1						▶		
	Editing released BOMs requires delete rights in the BOM module											
	<u>N</u> ew <u>D</u> elete <u>Ok</u> <u>C</u> ancel											

An online slideshow is located here: <u>http://www.pcmrp.com/mrp101/pw1.htm</u>

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.

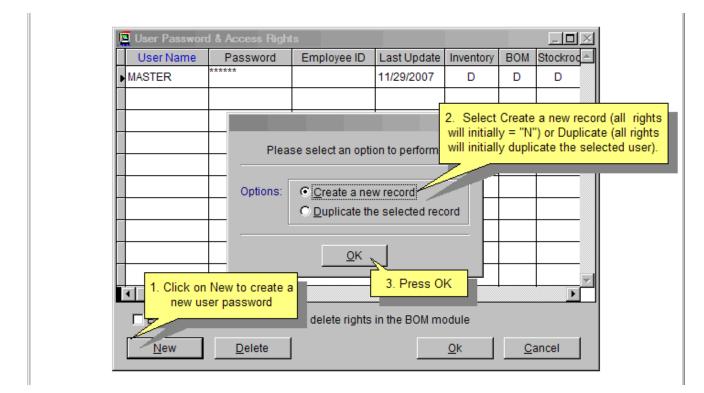
MASTER has all access rights to all modules including the password module. You can change the name of MASTER; however, you should leave one username/password with access rights to all modules including the password module. This will allow the network supervisor to be able to change the passwords in the 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. **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.

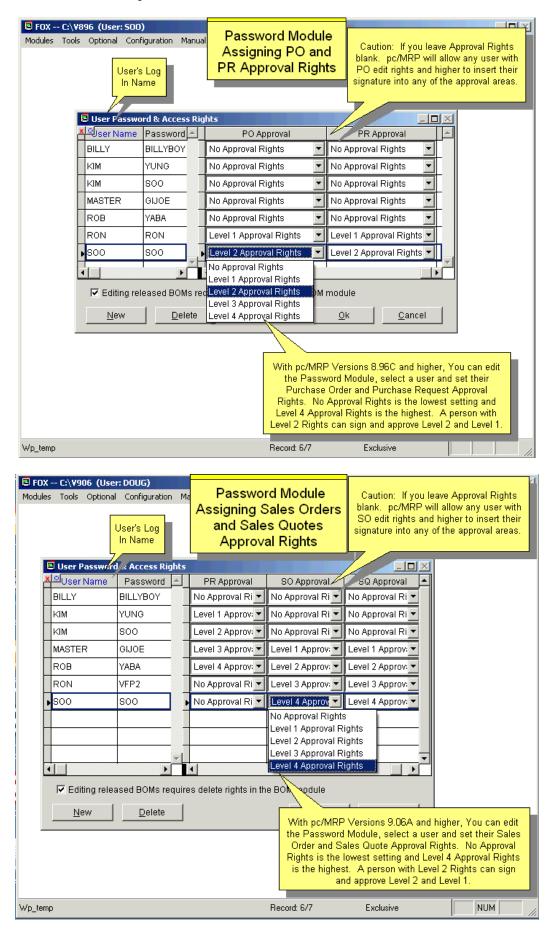


Checking the 'Editing released BOMs requires Delete rights in the BOM module' checkbox this box will require a user editing a released BOM to have Delete rights to the BOM Module. Please see Section 12.1.8 for more information.

**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.

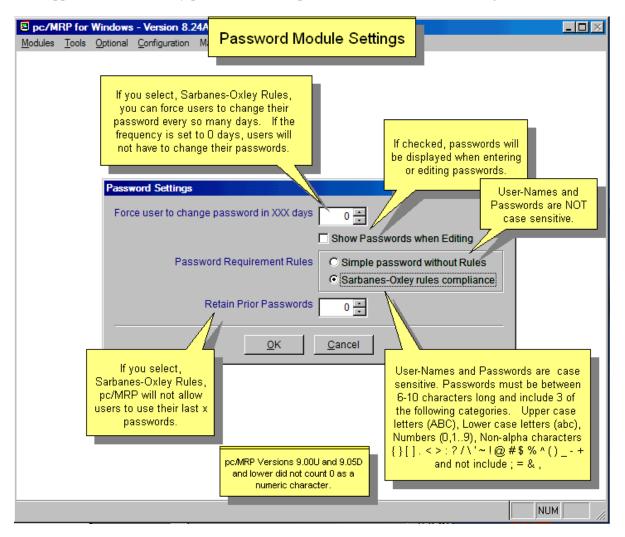
**Note:** The optional Infinite Bucket module has a checkbox to include demand for Sales/Works Orders for Preliminary BOMs. Unchecked, pc/MRP may under order. Checked, pc/MRP may order the wrong parts.

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.



# 16.2.4 Password Settings

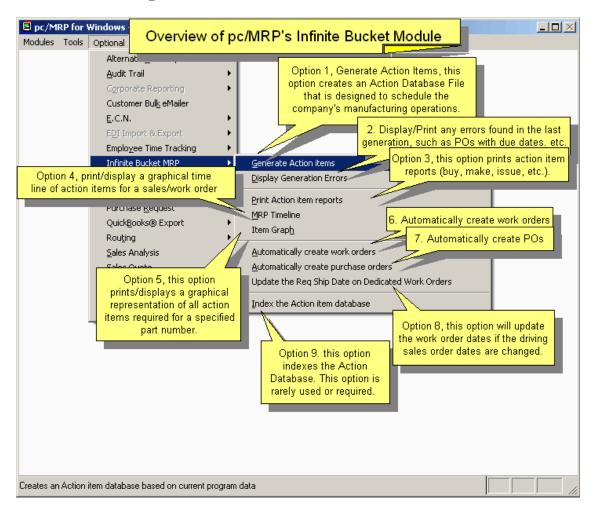
pc/MRP supports Sarbanes-Oxley password rules (Optional, Password, Default Settings):



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.

Action to be performed		Rights needed
Cost Roll-up (if set by Option 47)	E	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
Automatically update the GL when entering an invoice or receiver (if auto accounting is set on)	E	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 needs the same or higher rights to the		BOM module
Inventory module		Inventory module
Edit released BOMs (if "Editing released BOMs requires Delete rights in the	D	BOM module
BOM module" was checked)		
Activate an Optional Module (full or trial)	С	Configuration menu
View Configuration settings	С	Configuration menu
Edit Configuration settings / Run Utilities	E	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)	C	Sales
Reindex a file	D	the effected module
View credit card numbers and add new ones	C	Sales OR Invoice OR Accounting
Entering Cycle Counts	Ε	Inventory
Approve a PO or a RFQ needs approval right for that module on that level (or on a higher level)		



# 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>

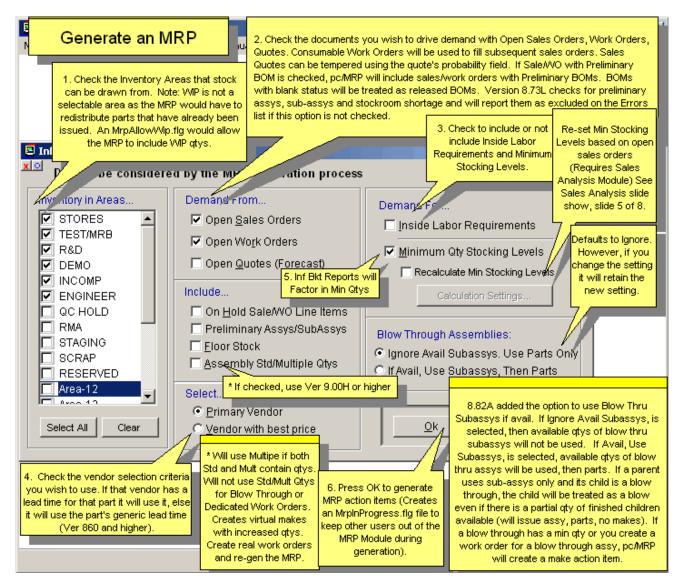
The MRP reports are only up to date right after the MRP was generated. The longer the time between the MRP generations, the more outdated your reports will be. pc/MRP displays the date the MRP was last run. To learn about how to schedule automatic MRP runs, see the pc/MRP Scheduled Tasks in Chapter 15.16 of this Manual.

pc/MRP's Infinite Bucket MRP module can be activated by 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, selection Module Activation, 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 a 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.
- Process 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 will drive the BOM minimum quantity, enter 'MINQTY' in the selection box for SO/WO# when you select the All for a Sales/Work Order Number.

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 qty available as the BUY action items can be increased by the standard order qty. 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: Versions 8.95W and below always factored in the minqty. **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.

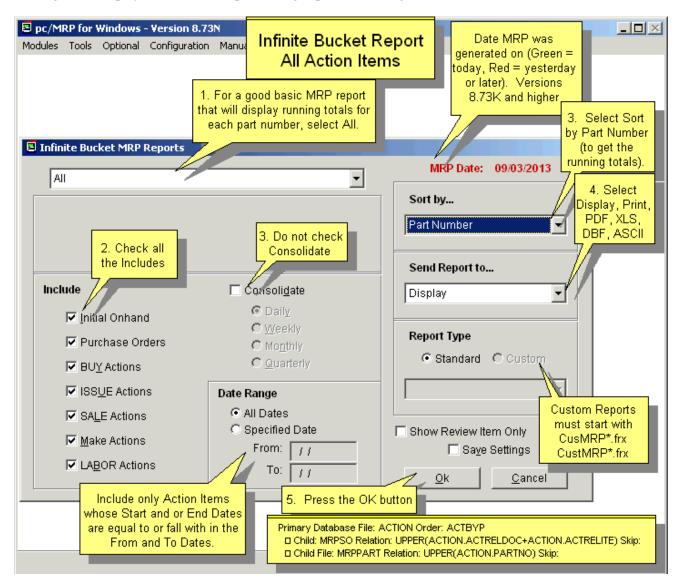
pc/MRP checks to ensure that sales order line item qtys that have been assembled but not shipped are still available. If assemblies are missing, it adds the error message "Error, sales orders for part number xxx were assembled but not shipped. Please create a consumable work order for xxx units and re-generate 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 (**8.94D** and higher). 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:

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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 Item # only used for PO action items (ActItem)
- 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 (8.88 B and higher).
  - 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.

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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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.

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	NQTY	000003 00	01 MOU001	000000003	REAR AXLE	2	2	02/23/2010	02/25/2016	
PO MIN		000003 00	01 MOU001	000000003	REAR AXLE	2	2	02/23/2010	02/25/2016	
PO MIN	03/03/2016	000003 00	01 MOU001				-			
PO MIT EN D DATE BUY MIT		000003 00	01 MOU001	000000003	REAR AXLE REAR AXLE REAR AXLE	3	-	02/25/2016	03/03/2016 03/03/2016	

000000003

000000003

000000003

000000003

Primary Database File: ACTION Order: ACTBYD
Child DataBase File: MRPSO Relation: UPPER(ACTION.ACTRELDOC+ACTION.ACTRELITE)
Child DataBase File: MRPPART Relation: UPPER(ACTION.PARTNO)

0001

0001

0001

0001

The Standard Report is MRP2.FRX

EN D DATE 03/18/2016

END DATE 03/31/2016

000102

000102

000105

000105

BUY

SALE

BUY

ISSUE

pc/MRP V9.10

6 03/11/2016 03/18/2016

03/18/2016 03/18/2016

03/24/2016 03/31/2016

03/31/2016 03/31/2016

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.

1

1 5

10

10

15

5

REAR AXLE

REAR AXLE

REAR AXLE

REAR AXLE

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.

<b>VFP - C:</b> \ odules To				М	RP Re	eports Virt	ual Mal	kes	-			
	eview - N 17317201:				Print	Preview			×			_ B >
PAGE:1						- 4   🕰   🕨	N 75%	🖉 🗕 📭	8			т ану ро/ЛОР 🗧
ALL, SO	RTED BY	PART BU	NBER									
RCTION	DRIVING SALES/W		PO	ITEN	# VENDOR	PART/ASSY #	DESCR	IPTION		0LA	PHENING TOTAL	START DATE
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ONHAND					<b>L</b> BC001	00000001		¶G, 3‴ОД х		102	102	11
PO			000001	0001	BBCOO1	00000001	BEIRI			5	107	10/21/2012
SALE	000103	0001			ABC001	000000001	BEARIN			1	106	11/02/2012
ISSUE	000101	0001			ABC001	00000001		ис, з″ор х		5	101	11/27/2012
ISSUE	000102	0001			ABC001	00000001	BEIRI	ис, з≝ор ж		20	81	12/02/2012
PART #	00000											,,
BUY	лысл	pc/N	1RP Ve	rsions	8.72F an	d higher mark	virtual ma	kes with M	AKEM	. This	500	10/31/2012
3051						assy that is so						11/27/2012
80.8	00010					order is issu						11/29/2012
15506	00010					t, Auto Create						12/02/2012
ISSUE						would have its						12/02/2012
	· · · · · · · · · · · · · · · · · · ·											
PART #	00000					er you will now						
ONHAND						he higher leve						11
80.7	00010					on the entire jo						11/20/2012
ISSUE	00010	Driving \$	Sales∧			here are min q				ate a r	eal 12	12/05/2012
ISSUE	00010			work	order for	the assy and	regenerate	e the MRP.			ד	12/05/2012
							-					
PART #	00000											
ONHAND			1							10	10	11
PO				0001	BBC001	00000004	NUT			10	20	10/11/2012
PART #	00000		WHEEL	ASSY								
ONHAND						000000010	UHEEL			5	5	1.7
NAKE	- Dawn	0001				00000010	UHEEL			5	10	11/27/2012
SALE 🖊	0.0101	0001				000000010	UHEEL			10	0	11/30/2012
NAKE (V)	000102	0001				000000010	THEEL	155T		20	0	12/02/2012
			Γ									Þ
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on (c:\v87	2\action.	(1db				Heco	rd: 6/31	He	cord Unlo	cked		NUM

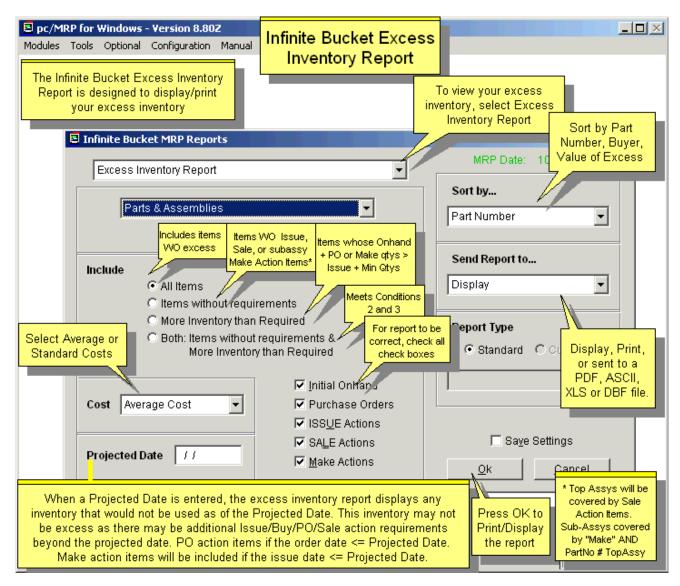
# 16.3.3.2 Consolidated Reports

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:

oc/MRP for Windows - Ver: Iules Tools Optional Conf Print Preview - MRP2CONS				1			<u> _</u>
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19/16/2013 00100002 10/14/2013 001000002 10/21/2013 001000002	STORE STORE STORE	0 0 0	510 510 0	0 200 600	0 0 0	0 0 0	0 0
PART RUNNER 000000000 10/07/2018 000000009 10/21/2018 000000009	BEAR LOLE HEAR LOLE	0	0 12	0 10	0	D D	0
PART RUMERS 000000004 10/07/2018 000000004 PART RUMERS 000000010	807	10	0	0	۵	D	٥
10/14/2013 000000000 10/21/2013 000000000 PART RUNCER 000000011	BERRY, 1927	0	0	0	۵د ۵	5 20	0
10/21/2013 000000011 10/28/2013 000000011 PART RUMBER 000000012	HEAR CHEEL AND E ANNT HEAR CHEEL AND E ANNT	0	0 0	0 0	ם חנ	LD D	0
09/16/2013 001000012 PART NUMBER 880000013	DADER STUDIE SUPPLY (Feelewestery Pa		2	٥	0	D	0
19/16/2013 001000019 10/14/2013 001000019 10/21/2013 001000019	LABOR IREIDI LABOR IREIDI LABOR IREIDI	0 0 0	5 0 0	0 0 0	0 0 0	D D D	0 50 800
PART RUNHER 000000014 10/07/2013 000000014 10/14/2013 000000014	LABOR OUTSIDE	0	5 20	0 0	0		:
		This exam 10/14/13 week of 10 could be fi paintir	/ou will n /21/13 yo or a weld	eed 50 ho ou will nee	ours and o ed 250 hc Tabor pai	during the iurs. Thi t number	e is

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.DOOD 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 (NonIncentory 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.

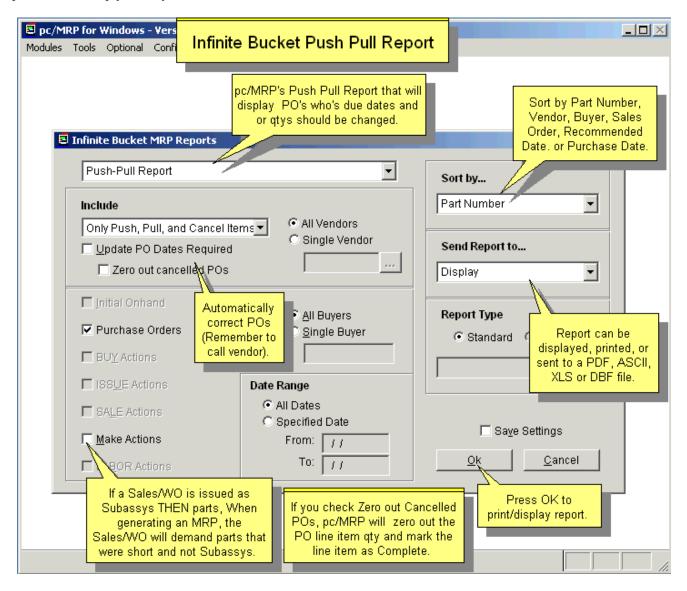
# 16.3.3.4 Pre-Shortage Report

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 8.802 Modules Tools Optional Configuration Manua	Infinite Bucket Pre-Shortage Report	
<ul> <li>Print Preview - MRP2CBPP.FRX</li> <li>The Infinite Bucket Pre-Shortage Repubasically a combination Buy and Push Putor for every part number that has an open Bur Change Delivery Date Recommendation</li> <li>DRTE: 09/26/2014 03:25:25 PM</li> <li>PROE: 1</li> <li>JLL, FOR LOTION TYPES(PO, BUY, ISSUE),</li> </ul>	Ill Report uy, PO, ation. Important Information concerning the PRE-1	NEP GEWEBATED : 09/26/20
DELIVING         ITEM#         POS         ITEM#           ACTION         SALES/WO ITEMS         NEARIWE         SALES/WO ITEMS           FARI #:         000000001         NEARIWE SS         STD COST:         10.000000         N           AVE COST:         10.000000         N         AVE COST:         10.000000         N           COMMENTS:         This field can contian addit         Commandation         Notematical additional additionadditionadditinal additional additina additional additionadditina	QUANTITY PLACE hATE ARUTACTURERS: imatch/ven good fuz 1 match per vendor ional data 1 match per vendor	SCHEDULED RECOMMENDED DELVRY DATE BUYER: RIM Test MODELS: 555050-1 5555050-1 555050-1
ВU7 000103 0001 РО ИТУИТУ 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 L0/28/2014
Виу Driving Open PO в Action Sales or for this Filtems for Work PN -	SOD. DOD SID. DOD SARUFACTURERS: ARUFACTURERS:	BUZER: 1 JG MODBLS 9/29/2014 0/28/2014 BUZZER: MODBLS
BUY 000102 0001 PART #: 00000004 TVT	12.000 10/16/2014	10/31/2014 BUYER: DOUG
	IARUFACTURERS:	MODELS:
	10.000 09/06/2014	10/15/2014 Cancel
Action (c:\pcmrpw880\action.dbf)	Record: 25/38	Record Unlocked

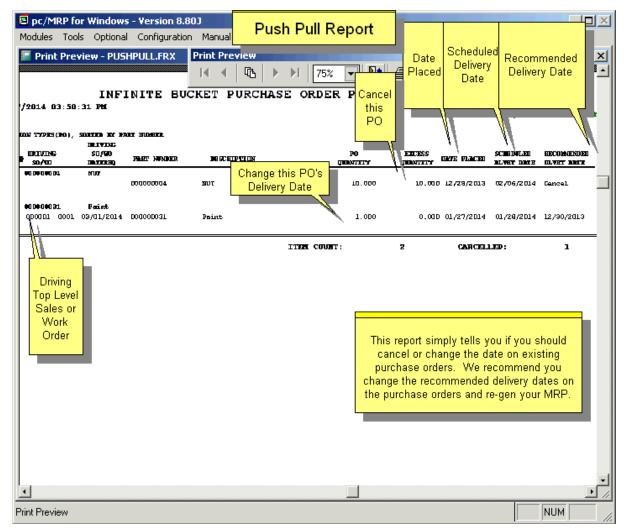
# 16.3.3.5 Push Pull Report

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 & <u>quantities</u>, 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
Include	All Vendors	Date
Include all Purchase Order Item		
Update PO Dates Required		ARNING!
Zero out cancelled POs		
Initial Onhand	All Buyers	Report Type
Purchase Orders	Single Buyer	Standard O Custom
BUYA		Standard O Custom
		MRP.FRX 💌
without the "Zero out can message below asking f advisable to "Save Settin this willautomatically upd time it is run and you in-a	date PO Dates Required" celled POs", you will get th or verification. Also, it is no ngs" with these settings se ate all POs as needed even dvertantly press YES!	ne ot et as
User Confirmation is Required		
	your currently selected report op sting Purchase Orders by updatir	
they WILL alter your exi Zeroing Out cancelled	PO items.	



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.

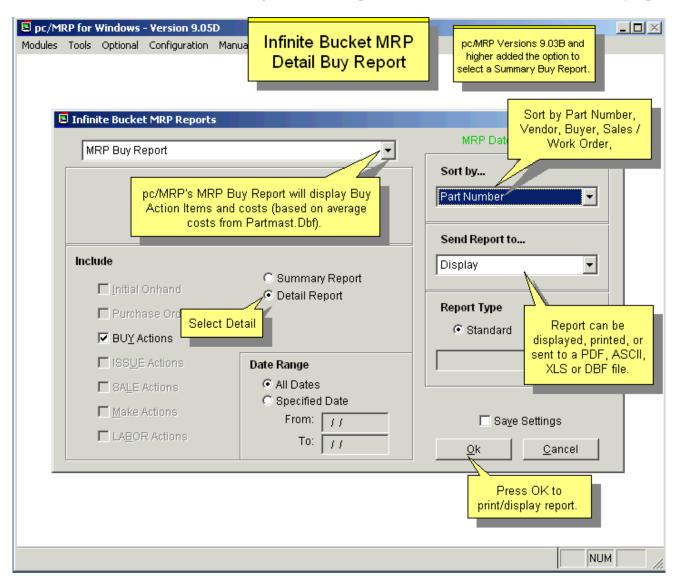
/2015 02:58:16 PM	I Configuration Man HPULL.FRX Print	Rare Cas	e 🗾 🗵 JSH PULL RE	Scheduled Delivery Date 10/11/2015	Recommended Delivery Date 07/29/2015
Types(po), sorted by date driving driving \$D/WO so/WO datered	RAGT NUMBER	DESCRIPTION		CEFS DATE An ILTY PLACED	SCHEDULED RECOMMENDED
10/11/2015 000111 0001 09/27/2015 0	0000 00021	Paint, Red	10,000	7.000 07/28/2015	10/11/2015 07/29/2015
Sales Order (000111 Date Req that need from the PO soc	Sales Or Sales Or Sales Or Sales Or 1 Bike A Lead Tim	ne 30 Days q 09/20/2015 rder 000111	30 Days /2015 y Pain/ 30 Days Lead	<b>NR: 0</b> t d Time 30 Days e 07/29/2015	CANCELLED: 0
9/20/15 which require: on hand and an existin Sales Order 000110 ra an additional sub-assy date, the MRP process later and was allocate changing the date requ allocated to sales order may still come in a Little	s 5 gals of paint, and s ig purchase order for 1 with a lead time that n ed it first and allocated d qty from the existing uired on the existing PC or 000110. Solution: Ch e early) OR auto create	pulling in a PO earlier than nee sales order 000111 due 09/27/ 10 gals of paint due on 10/11/ issued on 8/21/15 due to a 30 equires the same red paint on 3 the onhand qty of the paint to purchase order that is schedi D to 07/29/2015 even though th hange the date required on the e work orders (Per order requi his test, set the computer date	5 which requires 5 ( 015. day lead time to for th 07/29/2015. Since s sales order 000110 led to arrive on 10/1 lere will be some in s PO as per the push rement, Lower level	gals of paint. The ales order 000110 . Sales Order 000 1/2015. So the pu stock in that time, k pull report and reg sub-assys only) a	re are 7 gals of paint Order 0001111 has ) had an earlier due 0111 was processed ush pull recommends put the stock was jen your MRP (the part and regen your MRP.

# 16.3.3.6 Issued Shortage Report

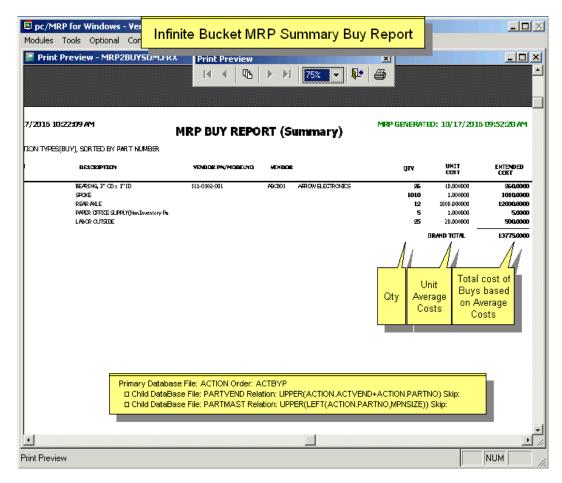
pc/MRP's Issued Shortage Report lists all issued stockroom shortages. It uses the Action Item data base file, action.dbf. It sets both mrpstock and mrpso as children database files. When it locates a make action item for the top assembly of a sales/work order, it will insert a record into TempShrt.dbf 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 Win Modules Tools Op	dows - Versic itional Config	nfinite Bucket D	etail MRP Buy	Report		
Print Preview -		III II III → MRP BI	) 75% 🔽 👫	<b>4</b>	Cos	age Unit st from tmast 2014 02
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000103 0001 780001		ABC BRADING SS	SS 60 SO-1	1	6.033088	6.033006/Z3/
000102 0001 110001	00000001	АВС БИАРДИС, 3" ОВ И 1. ПО	55 EO 50-1	20	e' 0350E8 	120.661106/28/
			SUD TOTYM	26		156.1595
RRT # 0000000	02 SPOKE	50.073		500	1.000000	500.000005/28/
000102 0001	00000002	SPORT		510	1.000000	510.000006/24/
			SUD TOTAL	1010		1010.0000
AR7 # 0000000	03 <u>PEAR AX</u>	LE		TOTA		1010.0000
000102 0001	00000003	REAR AXLE		12	1000. 0000D0	12000.0000067177
			SUE TOTM.	12		120D0.00D0
ART # 0000000:	12 PAPER 0	FFICE SUPPLY(MonInvent	ory Pa			
MINU 17	00000012	PAPER OFFICE SUPPLY (No		5	1.0000D0	6.D00DD5/29/
			SUE TOTAL	5		5.000
ART # 0000000						
MIN IT	00000013	LABOR INSIDE		δ	zo. 000000 	100.000005/28/
ART # 0000000:	14 LABOR O	UTSINT	SUD TOTAL	5		100.0000
	000000014	LIBOR OUTSIDE		5	20.000000	100.00006/22/
000102 0001	00000014	LIBOR OUTSIDE		20	20.000000	400.000006/25/
N.			SUD TOTM	25		500.0000
				GRA	RD TOTAL	13771.8595
Driving Sales/Work						
Action (c:\pcmrpw8	□ Child DataBase □ Child DataBase	ile: ACTION Order: ACTBYF File: PARTVEND Relation: U File: PARTMAST Relation: U	PPER(ACTION.ACTVEND+			Total cost of Buys based on Average Costs
Housin (c. spennipwood						



# 16.3.3.8 MRP Timeline

Contraction of the second s	RP for Windows - Ve Tools Optional Con		04E (User: DOUG)
	Timeline		
Wind	ow 🧾 e 33.33% 💌		Filters         Selected Sales/Work Order         ge         Reset           Part #
	Buy	PO	Issue Make Sale
Action	Part Number	Descri	October /2005 November /2005 Section litems
BUY	00000001	BEARI	
BUY	00000014	LABOR	
ISSUE			Issue Action Items
ISSUE	00000001	BEARII	▼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		NUM //

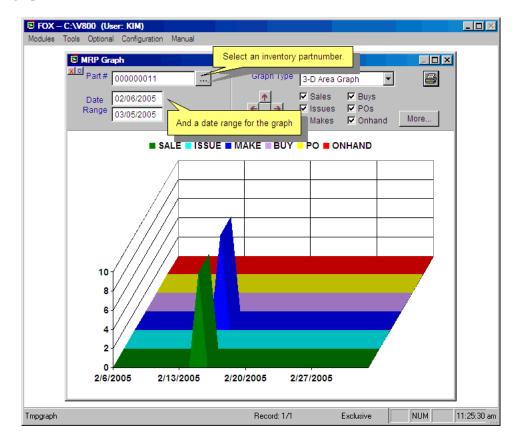
The MRP Timeline can display All actions, or just Buys, open Purchase Orders (PO), Issues, Makes, or Sales. Actions can be further filtered by specific part numbers, sales or work order numbers, and specific date ranges.

# 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 🖻 🛛 🖊 🗛 R. I V R. R. I N. M. I. M. I.	
Choose 3-D Area graph or a Line graph.	
MRP Gr.	Select the action items
xlo Part# Graph	Type 3-D Area Graph to graph.
Date 01/06/2005	I sues I Pos
Range 04/05/2005	Makes Onhand More
	Selecting More allows
MRP Graph Settings	you to set the Graph
x 0	Settings.
	he Well Diele Diener
Onhand Qty represents	Initial Date Range in Months
C Beginning Daily Balance	3 *
Ending Daily Balance	
Refactor the Onhand Qty plot when catagories	are Added Removed
Show the Date Gridlines 🔽 Show the	ne Quantity Gridlines
Ok	Cancel
	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.



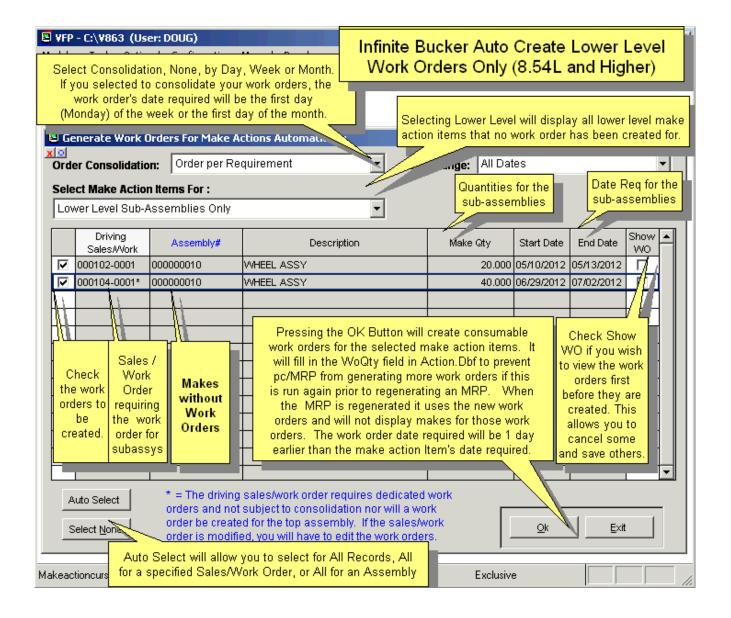
Page 634

# 16.3.4 Automatically Create Work Orders

# http://www.pcmrp.com/mrp101/mrpmenuautocreatewos.htm

Please note that you are 'micro-managing' your MRP when you select this option.

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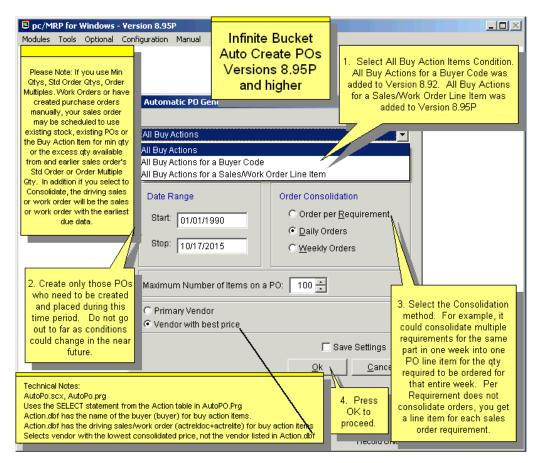
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If the purchase buy report looks good, selecting "Automatically Create Purchase Orders" will automatically generate the POs required to fill the buy requirements. Users can select a date range for generating POs. Selecting Order per Requirement will 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. Page 640

#### 16.3.6 Troubleshooting

# 16.3.6.1 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.

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L Previe 2/25/2016 R PART# N DRIVII SALES/ DATE / D DATE 02 MINQT 000104 000104 000104	w - CUSMRF 04:42:33 PM 0000000003, S <sup>KG</sup> WO ITEM 7 2/25/2016 7 8/03/2016 7 0001 8/18/2016 5 0001	onfigurat ISLIDE.F ORTED BY # PO#	ion Mai RX / ENDING ITEM #	ACTI DATE VENDOR	ON ITEI PART/ASSY # 000000003 000000003 000000003 00000000	DESCRIPTION REAR AXLE REAR AXLE REAR AXLE REAR AXLE REAR AXLE	QTV 0 2 3 5 5	0 2 5 10 5	G START DATE / / 02/25/2016 02/25/2016 03/03/2016 03/11/2016	END DATE / / 02/25/2016 03/03/2016 03/03/2016 03/03/2016	<u>_ </u>   25/20
L Previe 2/25/2016 R PART# N DRIVII SALES/ DATE / D DATE 02 MINQT 000104 000104 000105	w - CUSMRF 04:42:33 PM 000000003, S WG ITEM / 2/25/2016 Y 8/03/2016 Y 0001 8/18/2016 0001 0001	onfigurat ISLIDE.F ORTED BY # PO#	ion Mai RX / ENDING ITEM #	ACTI DATE VENDOR	ON ITEI PART/ASSY # 00000 0003 00000 0003 00000 0003 00000 0003 00000 0003 00000 0003	DESCRIPTION REAR AXLE REAR AXLE REAR AXLE REAR AXLE REAR AXLE REAR AXLE	QTY 0 2 3 5 5 1	0 2 5 10 5 6	G START DATE / / 02/25/2016 02/25/2016 03/03/2016 03/11/2016	END DATE / / 02/25/2016 03/03/2016 03/03/2016 03/18/2016	<u>_ </u> 25/20
L Previe 2/25/2016 R PART# N DRIVII SALES/ DATE / D DATE 02 MINQT 000104 000104 000105	w - CUSMRF 04:42:33 PM 000000003, S WG ITEM / 2/25/2016 Y 3/03/2016 Y 0001 8/18/2016 5 0001 5 0001 8/31/2016	onfigurat ISLIDE.F ORTED BY # PO#	ion Mai RX / ENDING ITEM #	ACTI DATE VENDOR	ON ITEI PART/ASSY # 00000 0003 00000 0003 00000 0003 00000 0003 00000 0003 00000 0003	DESCRIPTION REAR AXLE REAR AXLE REAR AXLE REAR AXLE REAR AXLE REAR AXLE	QTY 0 2 3 5 5 1	0 2 5 10 5 6	G START DATE / / 02/25/2016 02/25/2016 03/03/2016 03/11/2016 03/18/2016	END DATE / / 02/25/2016 03/03/2016 03/03/2016 03/18/2016	<u>_ </u> 25/20

# 16.3.16.2 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.

# 16.3.6.3 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.

# 16.3.6.4 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!

# 16.3.6.5 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.

# 16.3.6.6 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.

# 16.3.6.7 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	. Configure Human
「た」 III。 III) 小	Select Barcode Type 3 of 9, 128, UPC, 2 of 5, 93, EAN, PostNet, etc	Readable Text
Barcode Symbology	Human Reada	ble Text
Symbology 110 Code 128	Configure Barcode	
Code 128 Character set A B	Image	ze / Color 8.5
Image Attributes	Barcode Sample   Barcode Informatio	n _ ]
Image Type JPG  Resolution 300  Height  Rotation 0°  Margins	100 •         - <th>Displays Barcode Information for the barcode type selected, such as acceptable</th>	Displays Barcode Information for the barcode type selected, such as acceptable
Ratio 1:3 💌 Factor 1 🛬	cap-1000 Barcode Image Human Readable Text	characters, length, etc.
Barcode Color Sacal Background Color		
	ption to print Pharmacode (One and Two Code (Dutch Mail) Barcode Fonts	
		d Control Code the Designer

# 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:

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. 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. pc/MRP V9.10

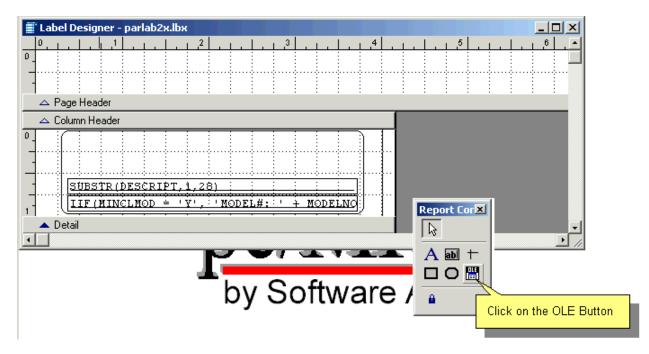
# 16.4.2 Modifying a Report or Label to Use Barcodes

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.

🖀 Label Designer - parlab2x.lbx	
Page Header     Column Header	
PARTNO         SUBSTR (DESCRIPT, 1, 28)         LIF (MINCLMFG =Y.,MFG:+ MANUFACTER         LIF (MINCLMOD = 'Y',MFG:+ MANUFACTER         LIF (MINCLMOD = 'Y',MFG:+ MODELNO         LIF (MINCLMOD = 'Y',         LIF (MINCLMOD = 'Y',         MODEL#: ' + MODEL#: ' + MODELNO         LIF (MINCLMOD = 'Y',         MODEL#: ' + MODELWO         Detail	To make room for the barcode font, select the PARTNO line and press your Delete Key. Do the same for the MINCLMFG and MINCLPI lines.

Click on the OLE button in the Report Controls Toolbar:



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 system         Consecond system         Constraint of the seco	General Print when Protection Other Control source type G Image file name G General field name Expression or variable name Control source:
SUBSTR(DESCRIPT, 1, 28)       IIF(MINCLMOD = 'V', 1)       Detail	ected control be used to render a Barcode image?
Report Cor X by Sof	Click on Yes, Render Siz a barcode image. Fr

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.

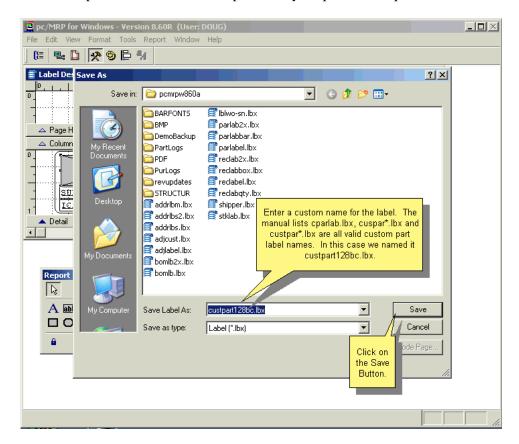
The "Control source" of the "Picture/OLE Bound Properties" dialog should now be filled with values set by the Barcode Builder:

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	

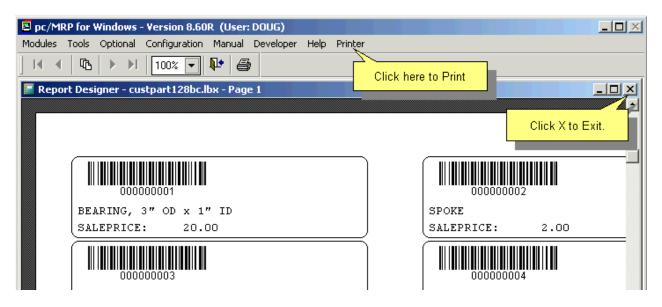
Replace the double-quotes in the "Control source" textbox with the name of the field that holds the data that is to be displayed as a barcode. This must to be a string value, e.g. TrimStr(Cost,2).

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
	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.

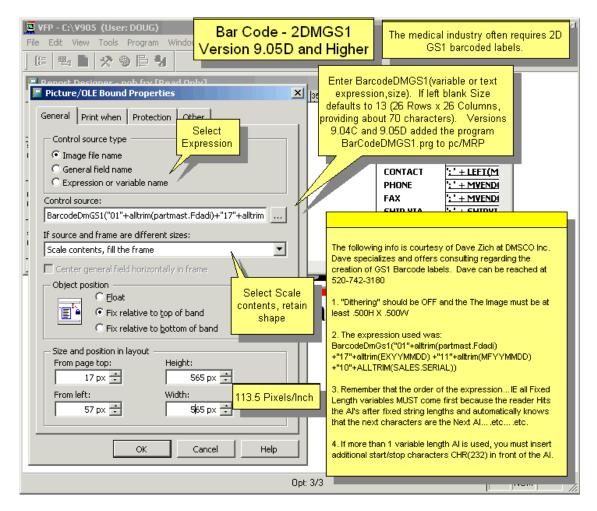
pc/MRP for Windows - Version 9.00Q Modules Tools Optional Configuration I     Print Print Preview	Bar Code - 2 Di Matrix, QR B	· · · · · · · · · · · · · · · · · · ·		
			PO #: 00000 PAGE NO. : 1 PO REQUEST : PO DATE : 03/29/20 CON TACT : PHONE : FAX :	1
PHON E: 408-226-7321 FAX: BBC MANUFACTURING COMPA ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	ANY		SHIP VIA : FOB : PLACED BY : KIM DEBIT/CHRG : TERMS : NET30 REQUESTOR : ACCOUNT # : BBC001 REL DOC # : DoD RATING	
ITEM PART Your 2D barcoo will be displaye	BEARING SS	Droid would allov a QR barcode text. A compu- barcode reader of the	d running an app such as y your mobile phone to a and display the embeddu uter with a wedge type Q could download and proc embedded text.	scan ed IR
Tempinv (c:\docume~1\doug\locals~1\temp\5	i6681531.dbf) Reco			

### **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

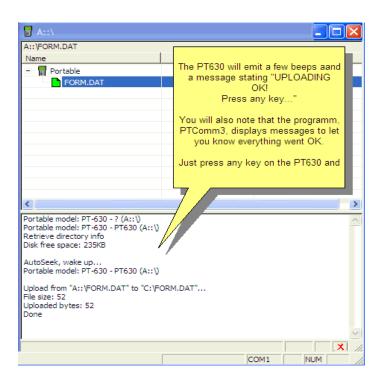
To download the physical inventory count follow the steps listed below:

- 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'

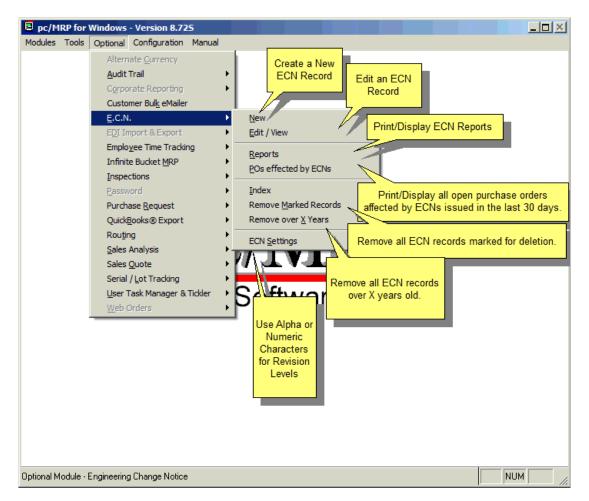
Most times, you will be replacing the previous inventory counts. A situation to "Append" would be where there are multiple storage areas for a part within a single 'STORES' area. pc/MRP V9.10

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.

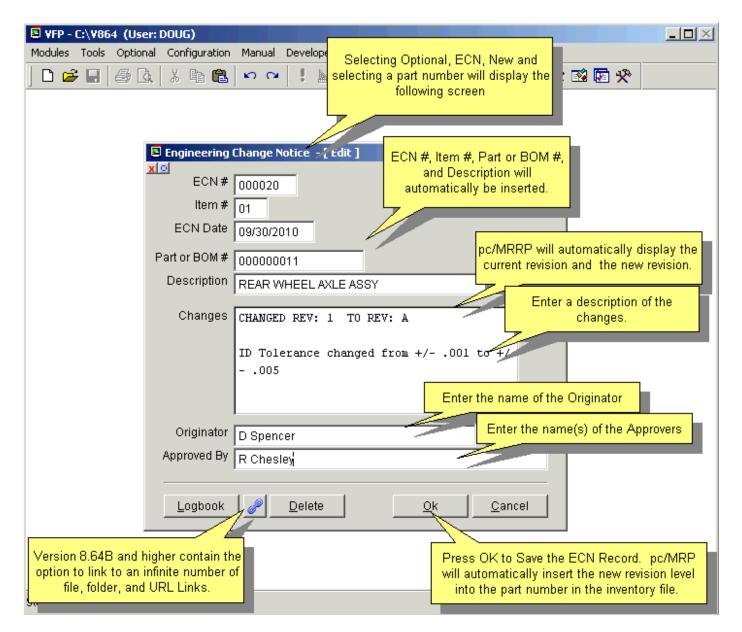
Call Software Arts (408-226-7321) to get your ECN activation code number. Then: Select Configuration Menu, Module Activation, and ECN from the menu Select activate ECN module Enter the activation code number

### 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.

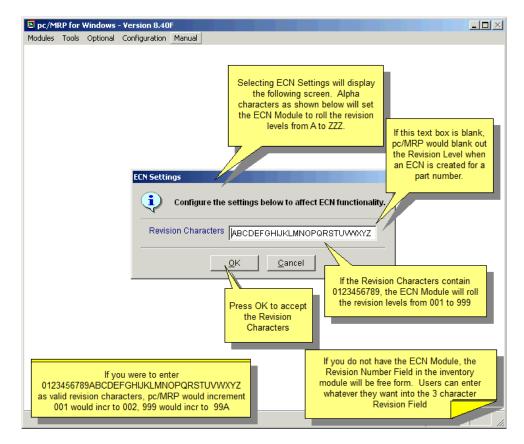
Any of the above may be listed for a specified date range, or for all records.

pc/MRP for Windows - Version 8.40F Modules T	
Modules T Selecting Optional, ECN, and Reports will display the ECN Report Screen as shown below. I. Select the Report Criteria	a perectine port
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 Market All Records C All Records C Entered in a Date range From: To: 1 1 05/28/2009	Sort by       4. Send the report to Display, Print, PDF, ASCII, Excel, DBF, or HTML         Send Report to       DBF, or HTML         Send Report to       Image: Send Report to: Send Report Type         Image: Standard       C Custom         Image: Save Settings       Image: Save Settings         Image: Ok       Image: Cancel

### Sample report:

odules To	ols Optional	Configuration	n Manua	al Print	er:							
Print Pre	eview - ECN.Fl	RX			review	Ι.					_	8
					6		▶   75%	<b>–</b>				
							-					ма
Etvare Ar 1 ECTe SO		THEFE			:	ECN	Repo	ct				nici osta
L ECHE SO	rts Orted by Ech Art Hunder	TUMBER ECN DATE	CHARGE	5	:	ECN	Repo		RIGINATOR	APPROVED	• BY	
L DECTRE SO CHE HO P2	ORTED BY ECH						_	٥	RIGINATOR Spencer	APPROVED RChesley,		

### 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.

						_ 0 >
VFP - C:\V881 (User: DOUG) Modules Tools Optional Configuration	ation Book	to Bill B	y Customer			
Print Preview - SANALC.FRX						_   □   ×
			Prin	nt Preview		×
1 01:44:34 PM	SALES AN?	ALYSIS BY	CUSTOMEF	4 B	▶ ▶  75%	- 📭 🧁
	1/01/2013 to 10/00	9/2013"			1	
CUSTOMER	1 YEAR GUAL	BOOKINGS FOR MONIN	BOOKINGS YEAR TO DATE	BILLINGS FOR MONTH	BILLINGS YEAR TO DATE	€ GOAL
ALLIED ELECTRONICS	0.00	D.00	0.00	0.00	0.00	0.000
VNET ELECTRONICS	0.00	D.00	0.00	0.00	0.00	0.000
ANA MANUFACTURING CORPORATION	0.00	D.00	0.00	0.00	0.DD	0.000
IGI-KET BLECTRODICS	0.00	D.00	0.00	0.00	0.00	0.DD0 -
NOUSER ELECTRONICS	0.00	D.00	0.00	0.00	0.00	0.000
TI BLECTRODICS	0.00	D.00	a.oo	0.00	0.00	0.000
. ** Rock BTRS	0.00	0.00	D. 00	0.00	0.00	
BC NAMUFACTURING COMPANY	0.00	0.00	0.00	0.00	0.00	0.000
A STATE BOA	0.00	0.00				0.000
REGON STATE Yearly Quota from COLLIZITION AddrBook (yr_quota		0.00		% GOAL is : //mn BAMT4		0.000
SOUTH WEST	0.00	0.00			-	
ARON ELECTRONICS	20000.00	10000.00	72040.00	20000.00	20000.00	100.000
. **	2000.00	10000.00	72040.00	2000.00	20000.00	
***	20000.00	10,000.00	72940.00	20p00.00	20090.00	
Book-To-Bill Ratio f	or Month: 0.500		Boot D-Bill	Rati or Ye	ar to Detr	3.6020
This report uses sanal.prg, sales.sales.ord	anal.dbf, sali ityreq mi	onth mt2)	lotal sales for year (Amt4)	iotal oices for onth Amt2)	Total invoices for year (BAmt4)	

## Book to Bill Current Quarter with 6 Months Billing Projection

VFP - C:\V905 (User: DOUG) Modules Tools Optional Configuration Manual Print Preview - CURRENTQTRBOOKBILL.FRX PAGE NO. 1 11/20/2016 03:33:14 PM	Book to Bill Current Q 6 Month Billing Proj	jections
Sum of Backlog (discount, no frt, tax) Backlog Month	er Book to Bill with 6 Montl	C(DATE()-1000) + "-" + DTOC(DATE()-1)
Delinquent Due 02/24/2014-11/19/2016           0 Due 11/20/2016-11/30/2016           1 Due 12/01/2016-12/31/2016           2 Due 01/01/2017-01/31/2017           3 Due 02/01/2017-02/28/2017           4 Due 03/01/2017-03/31/2017           5 Due 04/01/2017-04/30/2017           6+ Due 05/01/2017 and later           Grand Total           MTD Net Revenue (Bill)           MTD Revenue + Backlog	2000.00 2000.00 2000.00 2000.00 2000.00 2000.00 12000.00 26000.00 2000.00 2000.00 4000.00	Sales Orders - Date Required (SalePrice*QtyReq - Discount) Current Month to Date - Invoice Date (Invoices Price*QtyShip) Current Quarter to Date - Invoice Date (Invoices Price*QtyShip)
QTD Net Revenue (Bill) QTD Badklog (02/24/2014 - EOQ) QTD Revenue + Backlog QTD Net Sales Entered (Book)	2000.00 6000.00 8000.00 28000.00 Becord: E0F/21	pc/MRP uses CurrentQtrBookBill.prg sales.saleprice * sales.orqtyreq - sales discount from open sales orders only (IF IIComplete = .F. AND InQtyReq > QtyShip) for bookings

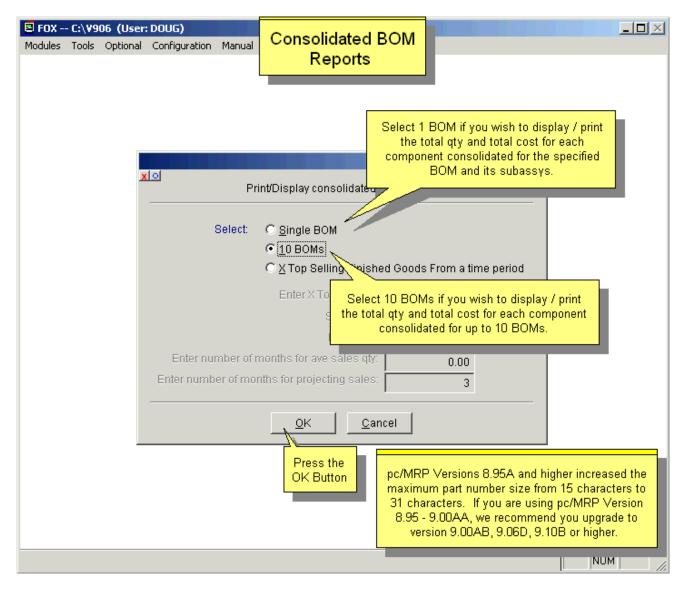
### 16.6.3 Consolidated BOM Reports

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:

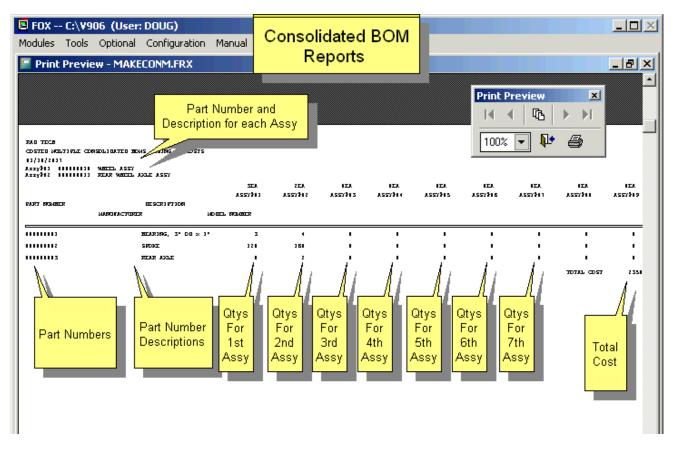
BOM QTY 2 EA 2 EA 2 EA 2 EA 2 EA ASSY # ASSY # ASSY # ASSY # ASSY # TOTAL PRICE BREAK TOTAL ONORDER ONHAND PART # DESC 000010 000015 000034 000235 003310 QTY UNIT COST COST QTY OTY 
 QTY
 QOOOL WHEEL
 2
 5
 30
 20
 3
 60

 00002 SPOKES
 40
 10
 10
 20
 10
 90

 00004 HUB SS
 5
 5
 10
 10
 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	х			
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	XXXXXXX.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 included in the time period)
   Recommended default.
- Top level parts and assemblies only (sets minimum quantities for parts and assemblies directly listed on invoices included in the time period)
- First level parts and sub assemblies only (sets minimum quantities for sub-assemblies and parts one level down from the main assemblies listed on the invoices in the time period)

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.

### Sample Estimated Usage Calculation Report:

Replacing new usage fields with 0Filtering invoices for the specified time periodTotaling quantities from invoices using the parts only methodP/B ITEM BOM/PART NUMBERINVOICE QTY USED NEW USAGEPART 001 0000001000001 24.0000 24.00PART 002 00000002000001 960.0000 960.000P/B ITEM BOM/PART NUMBERINVOICE QTY USED NEW USAGEPART 001 0000001000002 24.0000 48.00P/B ITEM BOM/PART NUMBERINVOICE QTY USED NEW USAGEPART 002 0000003000003 48.0000 48.00P/B ITEM BOM/PART NUMBERINVOICE QTY USED NEW USAGEPART 002 0000003000003 48.0000 48.00PART 001 0000001000003 48.0000 2880.00DART 002 0000002000003 1920.0000 2880.00Dividing 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"	X .1	25 112	2	200	60	336	306	30
000000003	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).

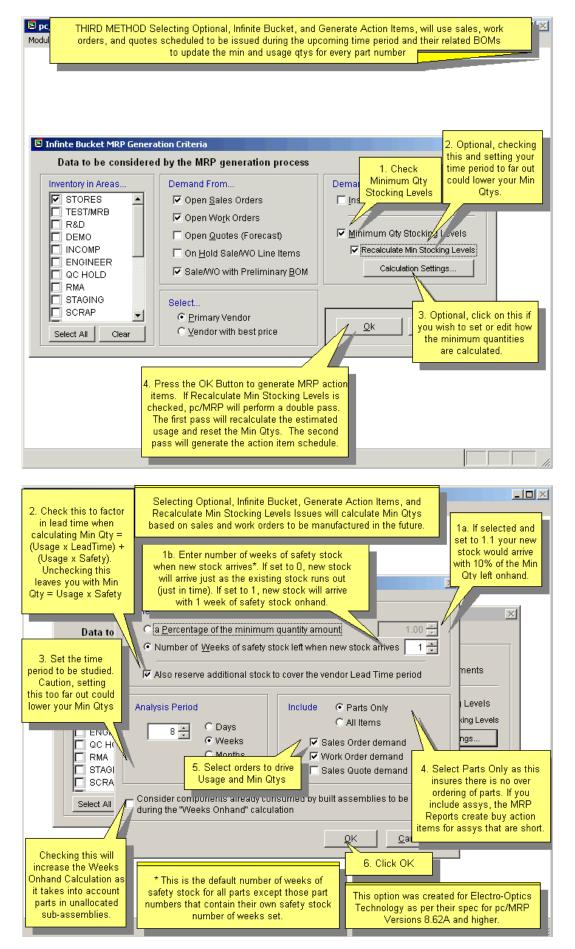
### **Sample Sales Trend Report:**

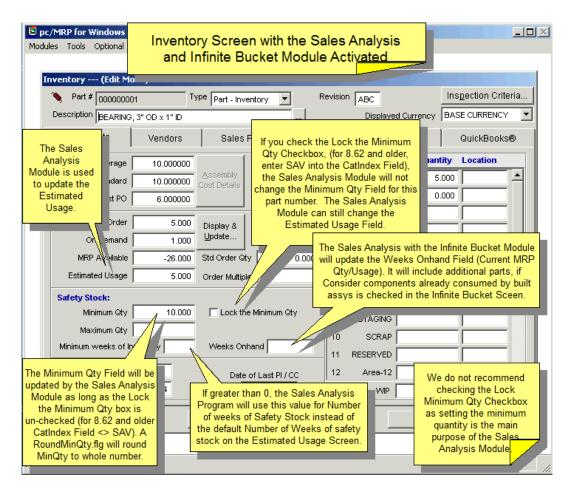
Page No. 1					0/92 Peri 11/01/92 to				
SALES ANALYSIS									
PARTNO AMOUNT	DESCRIPT	QTY PER1	QTY PER2	QTY PER3	TOTAL QTY	AMT PER1	AMT PER2	AMT PER3 TO	TAL
000000001 446.90	BEARING 3"	5	10	30	45	50.00	99.90	297.00	
0000000002	SPOKES 10"	0	1	0	1	0.00	1.50	0.00	
000000003	SPINDLE ST	0	1	0	1	0.00	38.50	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

pc/MRP for Windows - Version 9.008 Modules Tools Optional Configuration Manual	Sales Quote
Alternate ⊆urrency <u>A</u> udit Trail ►	Overview This Sales Quote Slide Show is still under construction.
Corporate Reporting Customer Bulk_eMailer E.C.N. EDTImport & Export Employee Time Tracking Infinite Bucket MRP Inspections Eassword Purchase Request QuickBooks® Export Routing	To enter a new sales quote, select Modules, Sales Quote, and New Edit an existing sales quote
Seles Analysis Sales Quote Serial / Lot Tracking Liser Task Manager & Tickler Web Orders Re-Index the sales quotes	New         Duplicate an existing sales quote           Edit / View         Convert a sales quote to a sales order           Duplicate a Sales Quote         Convert a sales quote to a sales order           Convert Quote to Order         Print/Display/Email a sales quote           Print         Print/Display sales quote reports           Reports         Remove all sales quotes marked for deletion           Remove over <u>X</u> Years         Remove all sales quotes over X years old
Add a new Sales Quote	NUM

### 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 Sales Quote Probabilities

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.

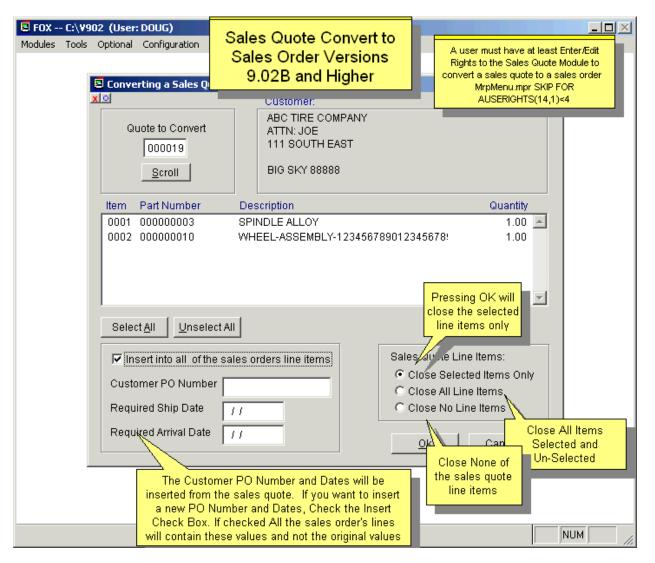
**Note:** If you send an e-mail directly from pc/MRP, you can use MS Outlook, or pc/MRP's own email program, CDO. The e-mail address in MS Outlook will automatically be populated from the e-mail entry in the pc/MRP Address Book. If you create an HTML or PDF document, you can save this document and attach 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.)

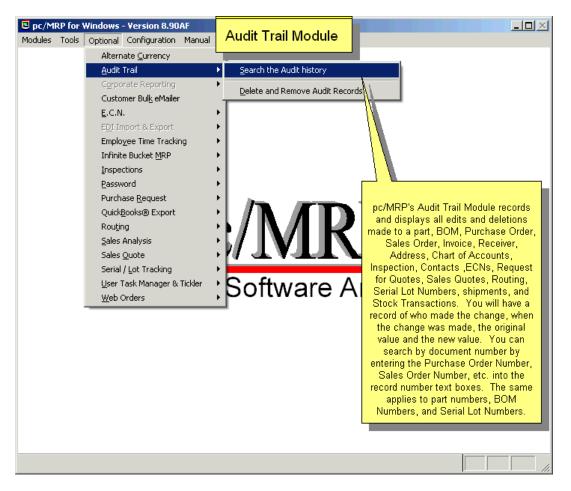
The Customer PO Number and Dates will be inserted from the sales quote. If you want to insert a new PO Number and Dates, check the "Insert into all of the sales orders line items" check box. If checked, all the sales order's line items will contain these values and not the original values (**9.02** and 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.



# 16.8 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

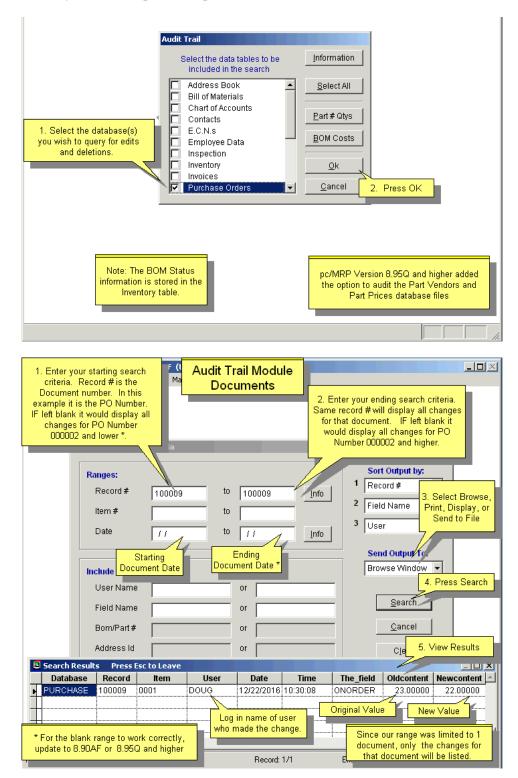
The Audit Trail Module is an optional module. To activate the Audit Trail Module, select Configuration, Module Activation, and then Audit Trail from the menu. To initiate this module Select Free Ten Day Trial, or call Software Arts (408-226-7321) to purchase this optional module, obtain your activation 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.

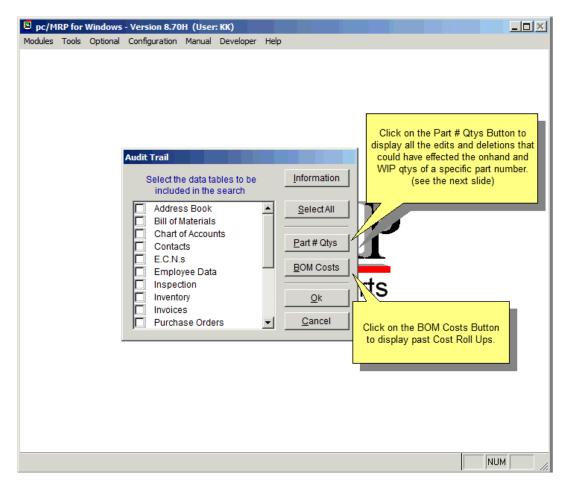


You can limit the Query to return only those that meet a specified Date by entering the same date into the first and the second field. You can return all records within a Date range by entering the start date into the first field, and the stop date into the second field. To return all records from a 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.

## 16.8.4. Searching Audit History for changes in Onhand or WIP Quantities, and Cost Roll-ups

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.

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Temp				Record:	1/1	Exclusive		

## 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.

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### **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.

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.

10	Optional Configurati	can be assigned rights	With versions 9.00 and higher users can be assigned rights to digitally sign and approve POs and PO Requests						
All User Name	Password 🔺	EDI	Inv Areas	PO Approval	PR Approval				
ROB	YABA	N	Edit	No Approval Rigl	🔹 No Approval Rigt 💌 🔤				
▶RON	RON	N	Edit	Level 1 Approval	Level 1 Approval				
800	SOO	N	Edit	Level 2 Approval	No Approval Rights				
■ Level 1 Approval Rights Use pc/MRP's Optional Password Module to assign PO Approval Rights, if any, and level Level 3 Approval Rights Level 4 Approval Rights Level 4 Approval Rights									
<u>N</u> ew	<u>D</u> elete			<u>O</u> k	<u>C</u> ancel	<u>N</u> ext			
Wp_temp				Record: 3/7	Exclusive	ļtems/Notes			
Vendor Name	BBC MANUFACTURING		iar <del>ess Lookup</del> Y	Vendor Contact	ET30	Links			
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Country	USA	Leve	el 2 Approval	Xim	Remove Sign	Options			
Vendor Ph #		Fa: Leve	el 3 Approval	Ron	That person could then	Log			
		_			edit a PO, Press the Approval Button and Insert	Create Par <u>t</u>			
Item # Part Numl		Leve	el 4 Approval	Doug	their signature at the level	Create Add <u>r</u> ess			
	Dptional Tickler Task	<u></u>	To request a	signature from an	they are approved for.	Sales Import			
Manager Modul	e will allow users to	send				Approval			
	o a user requesting H oval signature on a P			<u>0</u>	ĸ	<u> </u>			
insert his approval signature on a PO. Record: 1/11 Record Unlocked									

### 16.9.4 Converting a Purchase Request to a Purchase Order

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Item	Part Number		scription			Qu	iantity
0001	000000013 000000013	BOL					5.00 A
Sele	ct <u>A</u> II <u>U</u> nselect A	MI -		se All Items	<u>k</u>		<u>Cancel</u>

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.

### 16.9.5 Print/Email Purchase Quotes

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. Using programs like WINFAX users can also directly fax from pc/MRP.

**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.

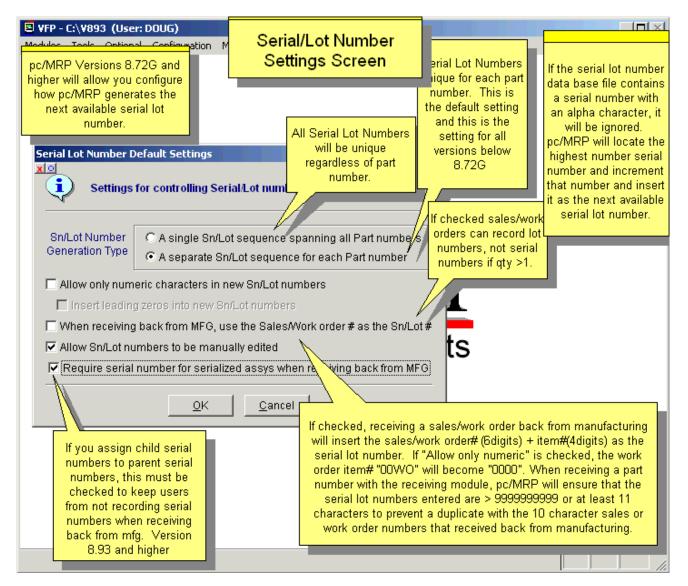
VFP - C:\V893 (User: DOUG) Modules Tools Optional Configuration Manu	Serial/Lot Number Overv	view
Alternate <u>Currency</u> <u>Audit Trail</u> C <u>orporate Reporting</u> Customer Bul <u>k</u> eMailer <u>E</u> .C.N. E <u>D</u> I Import & Export Emplo <u>v</u> ee Time Tracking	<ul> <li>individual child serial number example, this allows pc/MRP which bike where as before po bearing were issued to those 10 this, you would have had to have</li> </ul>	igher added the option to assign 's to parent serial numbers. For 'to track which bearing went into c/MRP could only report these 20 ) bikes on this sales order. Prior to ve a sales order with 10 line items arings went into one particular bike.
Infinite Bucket <u>M</u> RP <u>Inspections</u> <u>Password</u> Purchase <u>Request</u> QuickBooks® Export Routing	the stockroom to Issue 2 of the seialized wheels. When we rec we will assign the 2 bearings to The wheels are then invoiced an	PO for 3 serialized bearings. Use ose bearings to a sales order for 2 seive the sales order back from mfg their respective serialized wheels. Id the serial numbers of the wheels If or that invoice
Sales Analysis Import SnLot Records from a .CSV f SnLot Records from a .CSV f (partno,qty,snlotno). Creates SnLot and Adjusting records not Receiving	le Import le Edit a Mast t Master bit / View Print a	and or Detail SnLot Record ter and or Detail SnLot Record Master and or Detail SnLot Record
	vint	Print Serial Lot Number Reports
pc/MRP Versions 8.72G and highe	Audit Index Remove Marked Records	Audit Serial Lot Number Records Index Serial Lot Number Records Remove Deleted SnLot Records Remove Records over X years old
pc/MRP Versions 8.93 and higher *	Imp <u>o</u> rt Serial/Lot module settings Change Serial Number Assignment	Import SnLot Records from a .CSV file (partno,qty,snlotno). Creates SnLot Master and Adjusting records not Receiving records, does not adj onhand qty of PN (ImportSnLot.prg).
Optional Module - Serial Number & Lot Number Trac	king	dry of Pre (importancouplig).

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**.

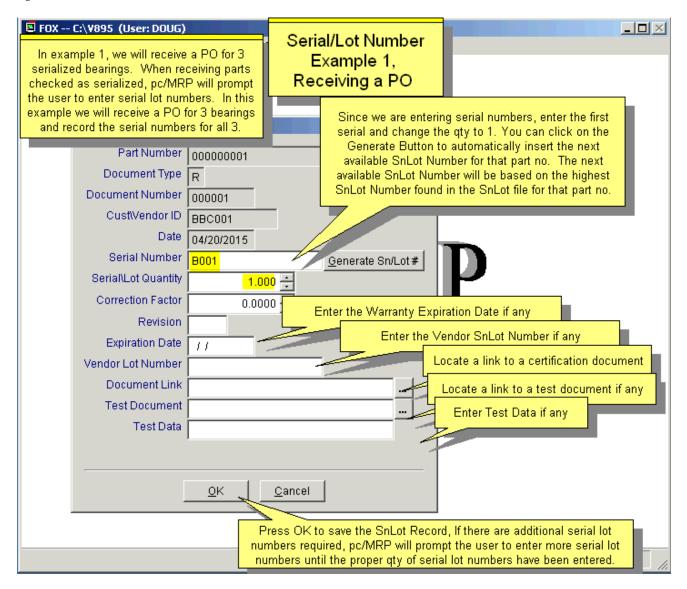
## Settings



**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 with Serial Numbers.

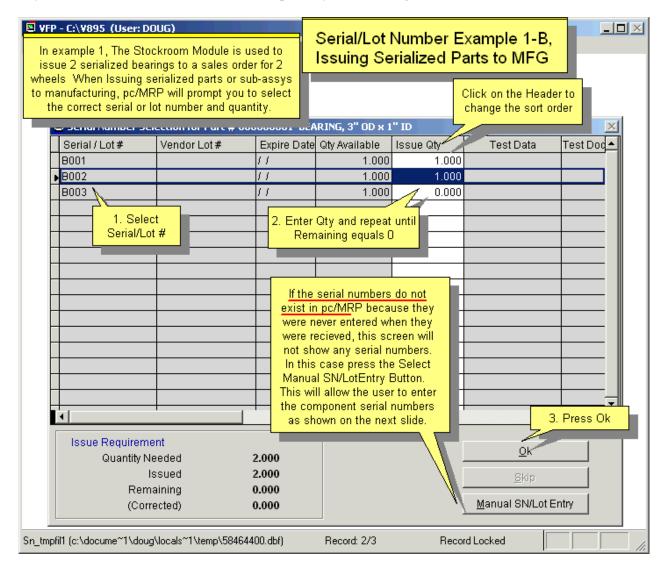
Use **Option 22** to set the receiver to include Serial Numbers as shown on the screen below:

E FOX C:\V895 (User: DOUG) Modules Tools Optional Configuration Manual Print Preview - RECB.FRX Print Preview Receiving	1,	- I × - I × #: 000001
RAD TECH COHESIVE TECHNOLOGIES 123 MAIN STREET RICHLAND, CA 92020-4400 PHONE: 408-226-7321 FAX: 408-247-8610 BBC MANUFACTURING COT ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW, CA 88888 USA	on, Settings et to Allow ot Numbers received by eiver record ERNOR INV EENDOR INV CENDOR INV CENTRE CENDOR INV CENTRE CENDOR INV CENTRE CENDOR INV CENTRE CENDOR INV CENTRE CENDOR INV CENTRE CENTRE	: 000001 : 1 : 04/20/2015 : : : DOUG, 14:23:52 : : NET30 : : BBC001 :
ITEM PARTNO DESCRIPTION	QTYREC U	NIT COST
0001 000000001 BEARING SS		
PODATE: 04/10/15 ACTUAL DATE REO: 04/22/15 Serial Numb #******* Receiver Item Serial Number B001 B002 B003	rs any of the snlot q contain 3 columns and Quantity. E	sions 8.64C and higher if tys > 1, the receiver will Part Number, Serial/Lot#, Ise, If any of the serial r, the receiver will contain
Print Preview	2 columns of seri serial numbers < 15	al numbers. If all of the 5 characters, the receiver umns of serial numbers.

See the Receiving Module (Chapter 8 in this Manual) about printing labels.

## **16.10.3 Issuing Parts to Manufacturing** (Example 1B on the Online Slide Show)

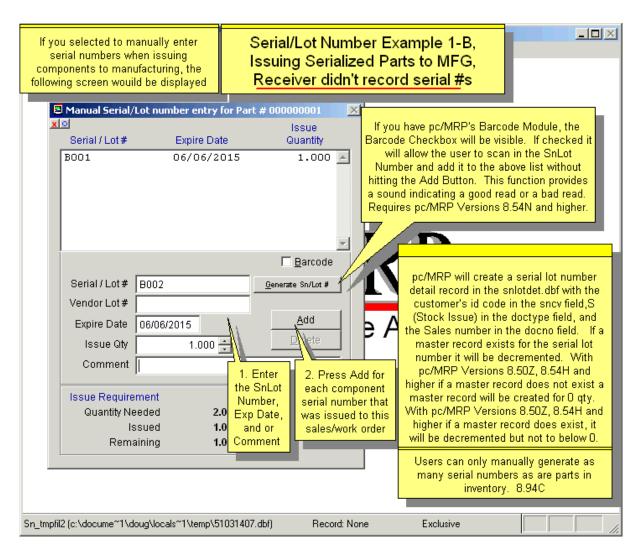
When issuing parts from the stockroom to manufacturing for a sales order, you will be asked if you wish to record serial numbers. If you answer "Yes", a screen displaying the serial/lot numbers available for that part number will allow you to select the serial/lot numbers of the part(s) you are issuing.



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.

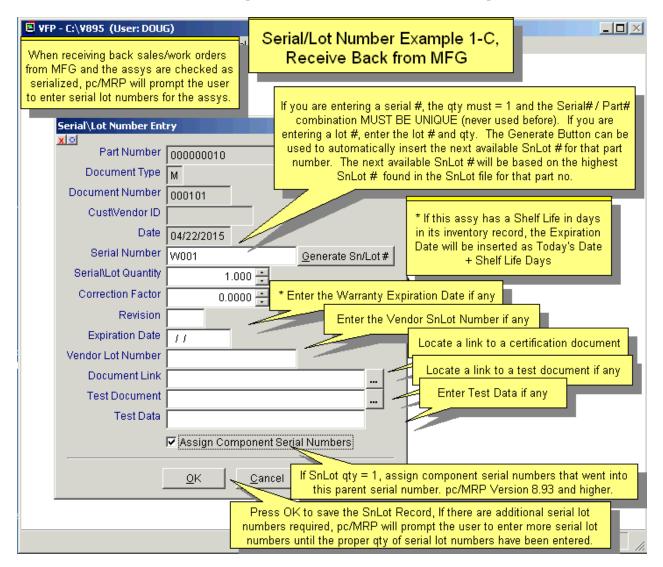
VFP - C:\V895 (User: DOUG) Modules Tools Optional Configuratio     Print Preview - CNVSBOM.FRX	Serial/Lot Number Exam Issuing Serialized Parts				_ D X _ B X _
RAD TECH BOM NUMBER : 000000010 BOM DESCRIPTION :WHEEL ASSY DATE : 04/21/2015 04:23:30 Pl QTY : 21.000 SALESWORK ORDER NO: 000101	JTEM NO: 0001.	BOM STATUS: MODEL NO:	This is	the PIC list fo	CMLERK
STOCK ISSUE REPORT FOR ISSUED F P/DITEM DOM/PARTNUMBER	ARTS IN FINITE LEVELS DEEP DESCRIPTION	LOCATE	ONDROER	ONHAND	QUANTE
SEALAL # Q77 55 UED	TEST DATA/TEST DISLIMENT FILE NAME				
PART 0001 000000001	BEARING 3" CD r 1" ID		0.000	DOR E	2.0
PART DOI2 000000002 PART DOI2 000000002 Serial Number(s) Qty	Data for that Docum	led, Test ent File d Location	0.000	1001.000	40.0

## **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. (**Note:** Assigned serial numbers were introduced in pc/MRP Version **8.93A**.)

For **reports**, see Section 16.10.9.

VFP - C:\V895 (User: DOUG) Modules Tools Optional Confi	Soria	l/Lot Number		
Parent Serial Number Document Nu Documert Parent Serial/I	umber 00000 umber 00000 umber 00010 ht Item		Custome	With pc/MRP Versions 8.93 and higher, if you checked, Assign Component Serial Numbers, the following screen will allow you to select which serialized component went into which serialized assy.
Parent	, t Serial Number	Information	Assign Child S	Serial Numbers
Select Child F	Part Number	Child Serial Lot No	Part Description	<u></u>
00000		B001	BEARING, 3" OD x 1	"ID
		B002	BEARING, 3" OD x 1	
			went into this parent	
bearing number the se sales/	, serial number VVD01. If seria rial numbers of work order wou	BOO1 that was iss alized spokes were fall the spokes tha Ild be displayed an	d serial number is a ued to a wheel, serial issued to this wheel, t were issued to this d one or more would serial number WD01.	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.
		<u>+</u>	<u>D</u> one	<u>Cancel</u>
Componentsncursor		Rec	ord: 1/2 Exc	slusive

## **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.

			voicing	nple 1-D,		
Serial Number Sel	ection for Part # 000	000010	WHEEL	ASSY		X
Serial / Lot #	Vendor Lot #		Qty Available	Issue Qty	Test Data	Test Doc 🔺
W001		11	1.000	1.000		
▶W002		11	1.000	1.000		
Lot Number Rec O for this p	eded ssued	If the a not ment	ect the parent s s being invoice for this sales of g a qty of 1 or i assy serial nun ecorded when t facturing, sele nanually enter t al numbers tha ently exist in p	d and rder by more heassys ck from ct Manual the assy tt do not	<u>O</u> k <u>S</u> kip	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.

Select Manual to manually enter serial numbers that do not presently exist in pc/MRP.

📕 VFP - C:\V855 (User: DOUC	ā)		
Modules Tools Optional Conl	If you select serial numb	ed to manually en ers for an invoice t een will be display	t <mark>he land the second second</mark>
E Manual Serial/Lot r	number entry for Part		If you have pc/MRP's Barcode Module, the Barcode Checkbox will be visible. If checked it will allow the user to scan in the SnLot Number and add it to the above list without hitting the Add Button. This
12345 12346	02/02/2011 02/02/2011	1.000	function provides a sound indicating a good read or a bad read. Requires pc/MRP Versions 8.54N and higher.
			۸Ľ
Expire Date 02/	02/2011	Earcode	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
Issue Qty Issue Requiremen Quantity Neede Issue	d <b>10.000</b>	Enter the S Number, Exp Qty and Pre	SnLot p Date, ss Add pc/MRP Versions 8.50Z, 8.54H and higher if a master record does not exist a master record will be created for 0
Remainin	g <b>8.000</b>		qty. With pc/MRP Versions 8.50Z, 8.54H and higher if a master record does exist, it will be decremented but not to below 0.
			p

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.

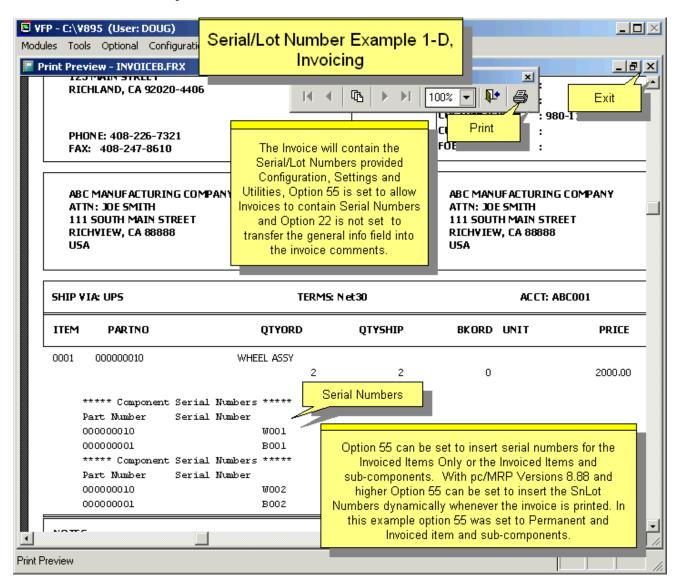
## Printing out Invoices with Serial Numbers.

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)     Modules Tools Optional Configuration Manual Developer Help	
♥ YP - C:\Y852 (User: DOUG)         Modules Tools Optional Configuration Manual Developer Help         ● Labels         Image: Start Label Parts         Image: Parts	Send To Print Output Type C Standard C Custom C Barcode Report Form Saye Settings Qk Qk Qancel
the option print ou number part numl snlot master file tha would select Modul	8.52A and higher contain t labels for every serial lot ber combination from the at has a quantity > 0. You es, Inventory, Labels, and Type Parts.
	NUM ///

## 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.

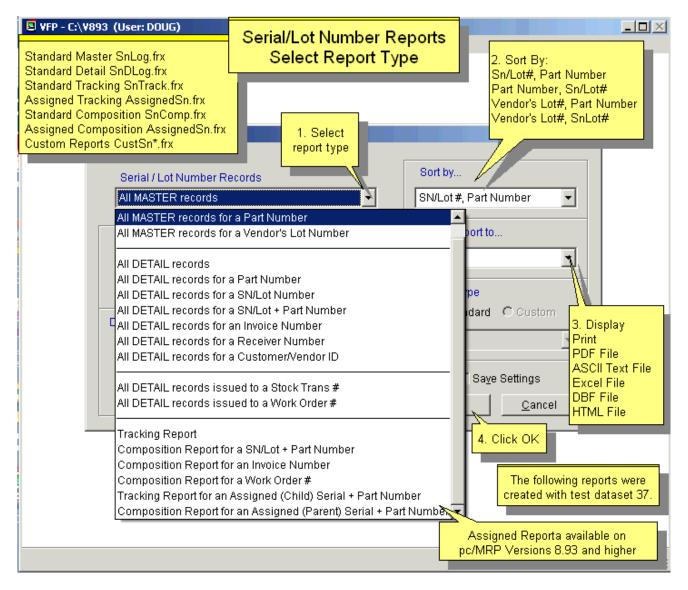
Selecting to run a Queried Search allows users to build, run, save, and load queries for the Serial/Lot Tracking tables. For further details, see Chapter 15.14 in this Manual.

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 http://www.pcmrp.com/mrp101/snreportmenu.htm



#### 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.

VFP - C:\V893 (User Modules Tools Option Print Preview - SNL DATE: 11/15/2014 PAGE: 1	al Configuration M OG.FRX Print P	erial/Lot Numbe All Master Re B ► ► [75% -	<mark>cords</mark>   ₩   ∰	r	
	sorted by SN/Lot #, Part #				
SN/LOT NUMBER	PART NUMBER	VENDOR LOT NO	EXPIRE DATE	QUANTITY	
8001	000000001	TENDOR LOTINO		0.000	
8002	000000001		ii.	0.000	
8003	000000001		ii.	1.000	
94001	000000010		11	0.000	
W002	000000010		11	0.000	
			TOTAL	1.000	
Rptdata		Record: E	EOF/5 Exclu	Isive	

DATE 11/25, PAGE 1	2014 11: 16:33 94	SER	IAL/LOT N	JMBER	DETAIL RE	PORT			
	rch sarted by Styllat 9, Pert # IBER PART NUMBER YEI	NDDR.LDTN D	TTPE DDC ND	JTEM	record Date	EXPIRE DATE	CLIST/VENCOR	QUANTITY	
8001	000000001		R 000001	0001	11/15/2014	11	880001	1.000	
8001	00000001		S 000101	0001	11/15/2014	11	ABITO1	-1.000	
8012	000000001. 000000001.		R 000001 S 000101	0001	11/15/2014 11/15/2014	11	8BCDO1. ABCDD1	1.000 -1.000	
9009	000000001		R 000001	0001	11/15/2014	11	890001	1.000	
Y4001			M 000101	0001	11/15/2004	11		1.000	
W001	000000010		I 000001	0001	11/15/2014	11	ABCD01	-1.000	
, woos	00000010			0001	11/15/2014	11		1.000	
W002	00000010		I III	0001	11/15/2014	11	ABITO1	-1.000	
l-Inv	voiced -1		earings BO	D1 and	B002				
		R-	Received I	Receiv	er 000001		ndor BBC001 + for Customer Al		
с	lote: The snlotdet re ontain 1 in their Det	Qty Field	. This		Bearings R-Receiv		Vendor ABC + 1		
	eport is conditional or -1 depending on t								

## 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 which was introduced in pc/MRP Version **8.93A**. 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.

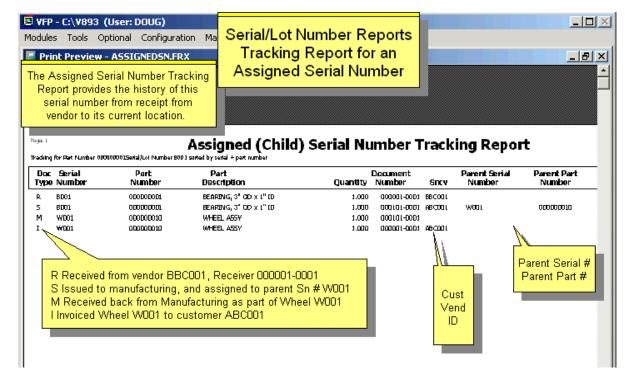
To see what serial/lot numbers went into a finished assembly, select a **Composition Report** for a SN/Lot # + Part Number combination, for an Invoice, or for a Work Order.

This is a standard composition report for Wheel W001. The standard composition report does not use assigned serial numbers which was introduced in pc/MRP Version **8.93A**. 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**

VFP - C:\V872 (User: RON) Modules Tools Optional Configuration Serial Lot Number Reports	×
Serial/Lot Number Records Tracking Report SN/Lot Number Records Tracking Report SN/Lot Number RLN-101002 Part Number CHEM0001 Date Range All Records From: To: Expiration Date 10/12/2012 Document Date (1) Decument Date (1) Press the OK Key	

Invento	W - SNTRACK.FRX			
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	Bycycle The lot number for t	he raw chemical itself along with as
Invencory	B3-013-03	BIRE0003		at contain the chemical from that lo
Inventory	B3-018-08	BIKE0003		
Invencory		BIRECCO4	Bicycle	your inventory is listed in this sectio
Inventocy	B4-019-09	BIKE0004	Bicycle -	
-	R1-045-03	RUBBOOOL	Rubber en nix 1	10.000
Inventory		CHEN0001	Ray Chancel	5905.000
-	51-029-04			10.000
-		SEATOOO1 TIREOOO1	Bicycle Seet Tire - 24"	10.000
Inventocy				
Inventory	W1-031-05	VHEE0001	Wheel - 24"	10.000
Inventocy	<b>W</b> 9-095-10	THEE0003	Wheel - 24" Plated	20.000
Inventory	W3-035-11	AHEROOO3	Wheel - 24" Plated	10.000
WIIP				
Туре	Serial/Lot #	Part 🔮	Part Description	Work Order #
0/IP	R1-048-01	RUBBOOO1	Rubber Pellets - Mix 1	000029-00%0
WIP	R1-043-01	RUBBOOOL	Rubber I	
WIP	R1-043-01	RUBBOOO1	Rubber I The lot number for t	he raw chemical itself along with as
<b>UIP</b>	R1-049-01	RUBB0001	Rubber 1 and subassys th	at contain the chemical from that lo
0(IP	RLN-101002	CHEM0001	Dow Cher	your mfg floor is listed in this sectio
0(IP	RLN-101002	CHENCOOL	Ray Cher	your mig noor is listed in this sectio
WIP	S1-026-01	SEAT0001	Bicycle S	
UIP .	T1-097-01	TIREOOO1	Tire - 2	000091-0000
WIB.	T1-037-01	TIRE0001	Tire 21	000032-0000
0(IP	T1-037-01	TIRECCC1	Tire = 2 The lot number for t	the raw chemical itself along with as
WIP	W1-027-02	VHEE0001	uncer -	
UI P	11-027-02	THEE0001		at contain the chemical from that lo
WIP .	W1-027-02	VHEE0001	vn⊿eeı – <mark>numberthatisat</mark> y	our customers is listed in this secti
Invoic	•			
Туре	Serial/Lot #	Part #	Part nor	Invoice #



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. **Note:** Assigned Serial/Lot Number Reports are available for Versions **8.93A** and higher.

## **Composition Report**

<b>72 (User: RON)</b> Optional Configu	uration Serial Lo	<mark>t Number Rep</mark>	orts		_ <b>_</b> ×
Composition SN/Lot Num	umber Records Report for a SN/Lot + ber B3-013-03 ber BIKE0003 ds From: n Date 10/12/2012		Sort by SN/Lot #, Part Num Send Report to Display croll and select the S ber and Part Number	Gerial or Lot r combination.	Excel, DF, or
	mini/Lot Number 99-013-03 Part Description Rubber Pellecs - N Raw Chemical Tice - 24" Wheel - 24"		f Scrial/Lot ● R1-043-01 RIN-101002 T1-037-01 V1-027-02 t displays all serial at went into this	10/12/2012 14:01:47 Work Order H 000037-0000 000043-0000 000013-0000	

This is an assigned composition report for Wheel W0001. It shows that Bearing 001 was assigned to Wheel 001. **Note:** Assigned Serial/Lot Number Reports are available for Versions **8.93A** and higher.

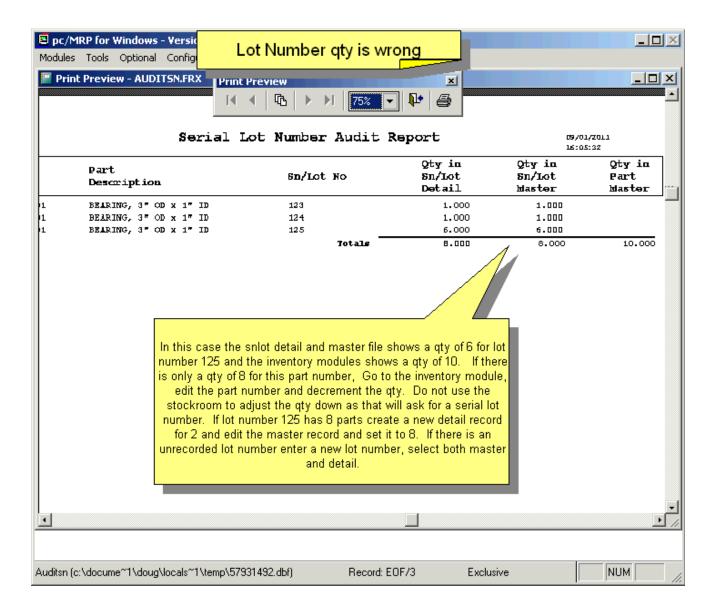
	<b>(User: DOUG)</b> Optional Configurati w - ASSIGNEDSN.FR)		Report for an		
Page I Part Number 00000001	D Saela(/Lot Number WOO L	Assigned (Parent	) Serial Number (	Compositi	on Report
Doc Serial Type Number	Part Number	Part D8scription	Document Quantity Number	Parent Serial Number	Parent Part Number
5 BD01	ODODODOD1	Beardng, 3° od x l" (d ∖	1.DOD 0D0101-Q0	al woal	00000000

## 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).

AND IN COLUMN	1RP for Windows - Versio Tools Optional Config	Serial Number qty is v	vrong							
Prin	t Preview - AUDITSN.FRX		× ] 🗣 🖨		×					
	Seri	al Lot Number Audit	Report	09/0: 15:40	1/2011 5:55					
c	Part Description	Sn/Lot No	Qty in Sn/Lot Detail	Qty in Sn/Lot Master	Qty in Part Master					
001 001 001	BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID BEARING, 3" OD x 1" ID	123 124 125	1.000 1.000 1.000	1.000 1.000 1.000						
	Totals       \$.000       \$.000       4.000         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 (d	c:\docume~1\doug\locals~1\tem	p\56814915.dbf) Record: E	OF/3 Exclusi	ve	NUM //					



(For Existing Inventory that has not been serialized)

pc/MRP for Windows - Version Modules Tools Optional Configurat			
	ion wa <u>r</u> oa pe <u>r</u> eiobei <u>H</u> eib	1	
Adding a Sn/Lot N	lasteran 1. Enterthe Quantity, 1 for a Serial Number,		
Part Number Description	00000 multiple for a Lot BEARI	WIDE SS	Enter the Vendor Serial Lot Number if any.
Serial/Lot Number Quantity Correction Factor	1234	Vendor Lot Number Expire Date / / Revision ABC	
Related Document Item Number		Record Date 03/12/200 Stock Transaction	Enter Warranty Expiration Date if any. 8 Certification Document
	Certification.doc	Customer/Vendor	/iew Certification Document
	Testresults.doc PH = 8.5, Nitrides = 70 ppm		View Test Document (8.25) st Documents (8.25A)
	Test Results (if app Version 8.25A and	higher Pres	<u>Cancel</u> ss Ok to save Master od or Detail Record.
Partmast (c:\pcmrpw825\partmast.dbf)	Re	ecord: 1/11 Record Unloc	

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.

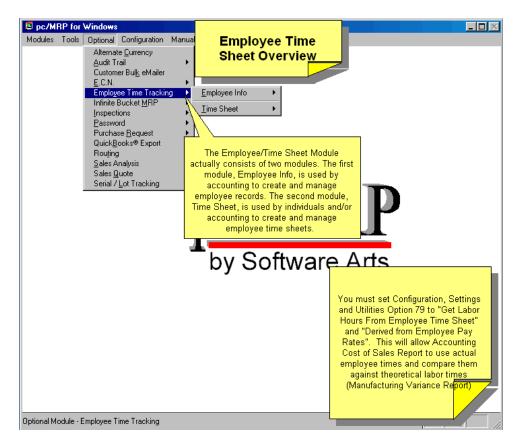
The **Documentation Link** contains the location and name of any document related to this serial/lot number. For example, the serial or lot number certification document could be stored here.
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pc/MRP V9.10

## Importing Serial/Lot numbers from a .TXT or .CSV file.

No. of the		1 (User: DOL							
Modules	Tools	Optional Co	onfiguration	Manual	Developer	Help			
		<u>A</u> udit Trai			•				
			e Reporting		+				
			Bul <u>k</u> eMailer						
		E.C.N. EDI Impor	rt & Export						
			Time Tracking	g	•				
			ucket <u>M</u> RP		1				
		<u>I</u> nspection <u>P</u> assword					_		
		Purchase			• L			0.000 V	
			ks® Export		t /	ЛЛ			sions 8.52A and higher ption to import serial lot
		Rou <u>t</u> ing <u>S</u> ales Ana	lysis			IV/I			pc/MRP. Users must dit/Delete Rights to the
		Sales Quo			<u>, 11 -</u>	T A T	T Pil	Serial Lot N	lumber Module to use
			ot Tracking	rt el la c	New	L P			The txt file must consist er,serial lot number, and
		User Task Web Orde	k Manager & T ers	lickier	•	/ View	íT	serial lot nu	mber quantity followed
	L				<u>P</u> rint <u>R</u> epo				e return for every serial you wish to import.
									· · ·
					Audi			7 /	
					Inde Rem	x ove <u>M</u> arked Reco	irde 🛛		
						ove over <u>X</u> Years			
					Impg	ort			
							Y		
Imports txt	file conta	aining Part Nur	mber, Serial Lo	ot Numb	er, SnLotQt	y			NUM //
		2 (User: DO		Manual	Developer	Liele			
Modules	TOOIS	Optional Co	Iniguration	manuar	Developer	Help			
									ss the Find Button to the txt file containing
			Import Seri	ial Lot M	umbers			the p	art numbers, serial lot
			XO	~ · · ·					rs, and lot number qty.
			<b>P</b> :	Select t	he csv or t	xt file containi	ng the serial lot	numb	
			C1	\V852\S	nlot trt		E	nd	
			10.	1703210	III OLDA		<u></u>		
			F	🔽 lf SN.	Lot Record	d exists, replace	e existing maste I detail record	r	
				quan	iny and eni	er an adjusting	l detail fecord		
					_	1			
					<u>k</u>	<u> </u>			
						-		becking the	Replace Serial Lot
					to import i numbers.	the	Num	iber Qty will	instruct pc/MRP to
The	Import	Serial Lot							the serial lot number
Nu	mbers (	Serial Lot Option is					maste combir	r file if the lo ation alread	number part number y exists in the master
Nu avai	mbers ( lable or						maste combir serial lo	r file if the lo nation alread ot number fil	t number part number y exists in the master e and the import qty is
Nu avai	mbers ( lable or	Dption is h pc/MRP .52A and					maste combir serial lo differer	r file if the lo nation alread ot number fil t from the c an adjusting	number part number y exists in the master and the import qty is urrent qty pc/MRP will snlot detail record for
Nui avai	mbers ( lable or sions 8	Dption is h pc/MRP .52A and					maste combir serial lo differer	r file if the lo nation alread ot number fil t from the c an adjusting	t number part number y exists in the master e and the import qty is urrent qty pc/MRP will

Note: The .TXT or .CSV file should not have a header row of column names.  $_{\ensuremath{\mathsf{pc/MRP}}\ensuremath{\mathsf{V9.10}}\xspace$ 

## 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**

🗧 pc/M	RP for	Windows						<u> </u>
1.100		Optional Alternal Audit T Custom E.C.N.	<u>Configuration</u> te <u>C</u> urrency	+	<u>E</u> mployee Info ►	<u>N</u> ew Edit / View		
		<u>Inspect</u> Passwo Purcha Quick <u>B</u> Routing Sales A Sales <u>G</u>	ions ord se <u>R</u> equest ooks Export a unalysis	• • • • •	<u>Time Sheet</u> →	Edity view <u>Reports</u> <u>Index</u> <u>Remove Marked</u> <u>Settings</u>	Records	
							NUM	

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.

🚊 Employee Information (Edit Mode)				_ 🗆 🗵
Employee ID     Salute     First Name       000014     Mr     Don	Initial S	Last Name Smith	,	SSN 888-88-8888
General Pay	Тах		Vacation /	(Sick Time
Address1 123 Main Street		Job Title	Engineer	
Address2 Suite 5		Job Class		
City Redmond	State CA 👻	Туре	Wage 💌	
Zip 95051-1234 Country USA		Hired		
Phone 408-248-6666 Ext 52		Released	10/10/2001	Inactive
Phone2 Ext2	Com	ments	11	- macave
Health Plan			outhern division	in fall 📃
[Un-Defined]				
[Un-Defined]				<u>_</u>
Delete			<u>O</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.

Employee Information	(Edit Mode)				
Employee ID Salute 000014 Mr	First Name Don	Initial S	Last Name Smith		SN 388-88-8888
General	Pay	Тах	Í	Vacation / Sic	k Time
	(	GL Account#	Description		Rate
Earning	[	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
	<u> </u>			0.00	0.00
 Delete				<u>O</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.

🗧 Employee	Information	(New Employee Entry)			
Employee   000016	ID Salute Mr 💌	First Name Don	Initial Last N		SSN 888-88-8888
Gen	eral	Pay	Тах	Vacation / S	Sick Time
Federal	Status		•	Extra Withholding	0.00
	🗖 Social Sec	urity 🗖 FUTA	🗖 Medicare	Allowances [	0
State	State Worked	<b>_</b>	🗖 FUI	Extra Withholding	0.00
	State Lived	<b>•</b>	🗖 SDI	Allowances	0
	Status		•	Other Deductions	0.00
Local	Status		•	Extra Withholding	0.00
2004		Single Married		Allowances [	0
Other		Married (One Income) Married (Two Income) Head of Household	🗖 Defei	rred	
<u>D</u> elete		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	intry)		_ 🗆 🗵
Employee ID Salute 000016 Mr 💌	First Name	Initial S	Last Name Smith	SSN 888-88-8888
General	Pay	Тах	Vacation / S	Bick Time
Vacation				
Hours Accrued	0.00 Accural	Туре	Hours Accrued per Peri	od 0.00
Hours Used	0.00 • Per l	Pay Period	Yearly Vacation Hou	rs 0.00
Hours un-Used	0.00 C Begi	nning Of Year	Reset at Beginning of Year	
Sick Hours Accrued Hours Used Hours un-Used	0.00	Type Pay Period nning Of Year	Hours Accrued per Peri Yearly Sick Hou Reset at Begin	rs 0.00
<u>D</u> elete			<u></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.

pc/MRP for Windows				
Modules Tools Optional Configur-	ation Manual Dev	veloper Help		
😐 Employee Databa				
indext	ed Search (Faster	st)	Queried Search	
Save Settings	Sort Or <u>d</u> er		_ Include	
	Name	<b>_</b>	No Selections	
Go <u>T</u> op	F Begin Scrollin	g <u>At:</u> 1. Enter the	last name of the employee	2. Press Search
Go <u>B</u> ottom	Smith		Searc <u>h</u>	
		FIRSTNAME	JOBTITLE	
▶ 000001 Smit		Don	Engineer	
	3. Select the em	nployee		
	loyee is to be allo	used to		
enter his	s own time sheets	s, the		
	ID must also exis module. If the pa			
module	e does not contain	the		
	s ID, only accoun d to enter the emp		<u>O</u> k <u>C</u> an	cel
	hours.		4. Pres	ss the OK
List of applicable 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

EMPLOYEE R	EPORT	
EMPLOY	ÆE LIST ÆE LIST _OYEE PROFILE	Sort by: DATE HIRED Send report to: O Display
Range:	C All Records C Entered date range From: To: 4 /20/01 4 /20/01	C Print C ASCII Text file C Excel file C DBF file
Include:	Active and Inactive     Active only     Inactive	Report type:     Standard C Custom
		<u>O</u> k <u>C</u> ancel

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.

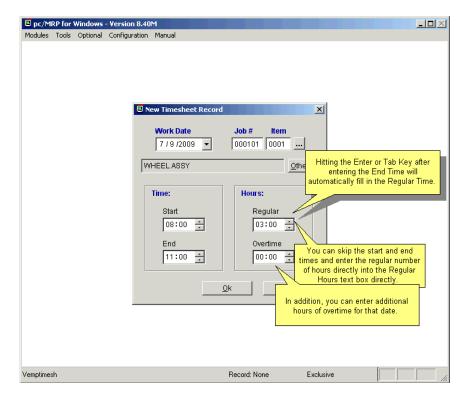
If the employee is allowed to enter his/her own time sheets, the Employer ID must also exist in the Password Module. If the Password Module does not contain the employee's ID, only Accounting will be allowed to enter the employee's hours.

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.

Timesheet							
Employee: ID #: 000014 Name: Don S Sm	ith			Display: © One Da © One We		One Month Date Range	
Date	Job#	ltem	Start Time	Stop Time	Reg Hours	O.T. Hours	며스
							-
•				1			7
			Τα	otal Reg / OT:	00:00	00:00	
<u>N</u> ew	<u>E</u> d	it <u>[</u>	<u>)</u> elete		<u>S</u> ave/Exit	<u>C</u> ancel	

## 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	e . 09 <b>-</b> (	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	LAI-LIU-	Description 🔺			
End	▶123456	Welding				
00:00	123457	Assembly				
	_					
	_					
			<b>v</b>			
			<u>O</u> k <u>C</u> ancel			
de.dbf)	Re	cord: 1/2	Record Unlocked			

:00

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: ID #: 000014 Name:				Display: O One D: O One W		<b>One Month</b> Date Range
Don S Sm	ith				4 / 1 /01	•
Date	Job#	Item	Start Time	Stop Time	Reg Hours	O.T. Hours
04/13/2001	000699	0001	08:00	10:00	02:00	
	+					
	1					
			-	otal Reg / OT:	02:00	00:00

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.

PLOYEE TIME SHEET REPORTS	
ALL TIME SHEET ALL TIME SHEET ALL TIME SHEET FOR A EMPLOYEE ALL TIME SHEET FOR A SALES/WORK ORDER	Sort by: DATE  Send report to: © Display
ALL LABOR COST REPORT ALL LABOR COST FOR A EMPLOYEE ALL LABOR COST FOR A SALES/WORK ORDER Range:	C Print C ASCII Text file C Excel file C DBF file
C All Records Entered date range From: To: 4 /20/01   4 /20/01	Report type: Standard Ocustom
	<u>O</u> k <u>C</u> ancel

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.

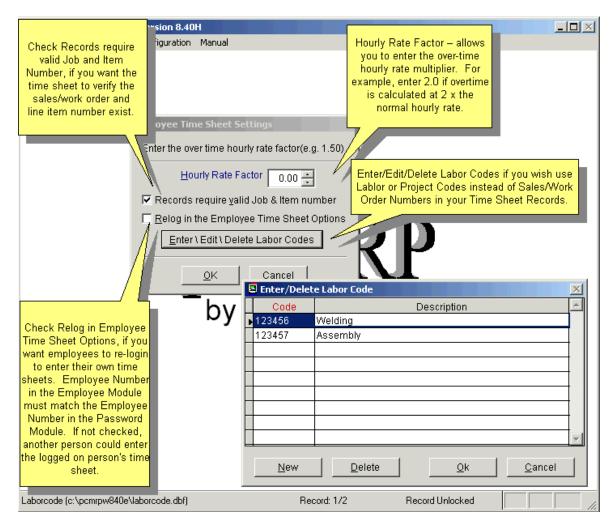
This report (COSTSALD.FRX) totals the actual inventory and labor costs for sales and work orders. The invoice.dbf file provides the selling price and the parent file for both the emptimesh.dbf and stockrta.dbf.

## 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)

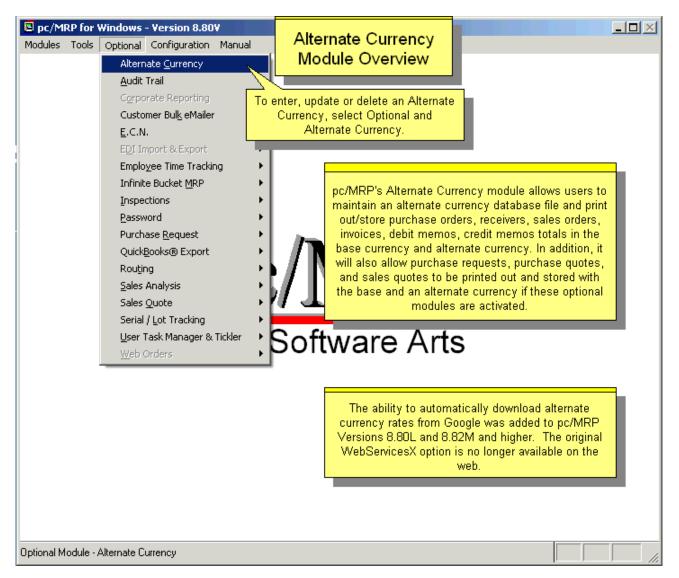
## 16.11.3.8 Time Sheet Module Default Settings



- 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**

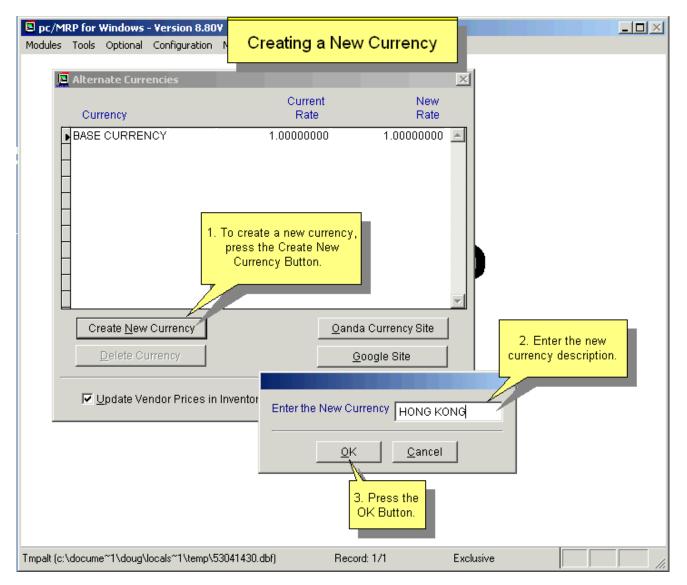
The alternate currency rate is the amount of alternate currency required to purchase one unit of your base currency. For example, if your base currency is U.S. dollars and it takes 1.25 Canadian dollars to purchase one U.S. dollar, the alternate currency rate for Canadian dollars would be 1.2500.

**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.

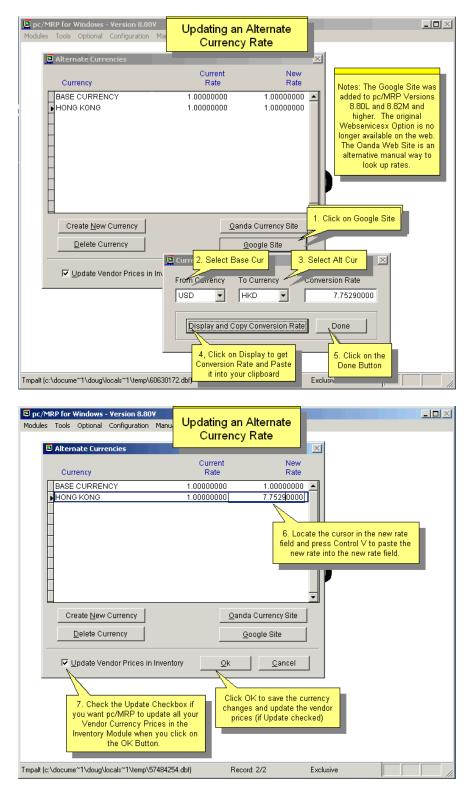
The currency list will display all the currencies along with the current exchange rate and the new exchange rate (if the user just updated the rate).

## **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 MINITACIEN : 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**).

Inventory (Edit Mode)       2. Select the currency to be displayed.         Pert # 000000001       Type Part - Inventory       Insgection Criteria         Description       BEARING 3 000D x 1 00D 1 00WDE SS       Displayed Curre         Otys 1 Costs       Vendors       Sales Prices       Details 1       Details 2         Mise:       PO Ratio       Po Unit       Buyer       Last Vendor:       Currency         1 0000       POUNIT       KM       Vendor's       Currency       CANADIAN         Mise:       PO Ratio       Po Unit       Buyer       Last Vendor:       Currency       CANADIAN         Vendors       1. Select a Vendor:       Currency       CanaDIAN       Image: Canadian       Image: Canadian         Muser       Lectronnics       Unit       If this vendor is to always get his set currency price, the Vendor's Currency should be set to his currency. If you are alway going to pay in your set base currency. If you are alway going to pay in your set base currency. If you are alway going to pay in your set base currency. The purchase order base currency. If you are alway going to pay in your set base currency. The purchase order base currency. If the vendor's Currency will be his currency and it will	Setting and Displaying Alternate Currency in the Inven	tory Module
Vendors       1. Select a Vendor         ARROW ELECTRONICS       Ouantity         Price       1         MOUSER ELETRONICS       1         MOUSER ELETRONICS       1         New Vendor       Remove Vendo         Vendor ID       DIG001         Vendor's Phone       980-112-1111         Vendor's Phone       980-112-1111	Part #       000000001       Type       Part - Inventory       Description         Description       BEARING 3.000D x 1.00ID 1.00WIDE SS        Displayed Current         Qtys \ Costs       Vendors       Sales Prices       Details 1       Details 2         Misc:       PO Ratio       Po Unit       Buyer       Last Vendor:	CANADIAN -
Vendor's Phone 980-112-1111 are alway going to pay in your set base currency price, this should be set to Base Currency. If the Vendor's Currency, the purchase order document currency will be his currency and it will	Vendors     1. Select a Vendor     Currency     CANA       ARROW ELECTRONICS     Ouantity     1       DIGI-KEY ELECTRONICS     1     1       MOUSER ELETRONICS     1     1       New Vendor     Remove Vendo     1       If this vendor is to always get his set currency price, the Vendors Currency should be set to his currency. If you     1	Price           13.6455         ▲           7.4430         ▲           0.0000         0.0000           0.0000         ■
Delete         Log Book         Part Status         Ok         print out displaying your base currency prices along with the vend prise currency prices.	Vendor's Phone 980-112-1111 are alway going to pay in your set base currency price, this should be set to Base Currency.	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 vend <mark>pr's</mark>

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	<u> </u>	Į
Vendor Invoice	Receiver Transaction Number Number	Amount Paid	BASE CURRENCY CANADIAN \$ POUNDS 27	
amo	stub will contain the base currer ount that was debited and credit in the accounting transaction.		Vendor Id: BBC001 Check Total 100.0	The AltCu Module allo checks to printed out in altcur amou
Remit to ID Company Name Address	BBC001 Scroll F BBC MANUFACTURING COMPA	Auto Lookup	Output to Print Form Type	The Checki account will credited in y base curren
	111 SOUTH MAIN STREET		Laser (11" Form)	The check wi
City, State & Zip Country Comments	RICHVIEW, Control handled by created by crea	xuations can be eating a currency unt. This account Other Expense er Income Credit djusting entries s could be made transaction or by original E type action.		print out in th alternate currer amount. The amount can b nanually chang However, the type transactio original debits a credits in bas currency will n be changed.

Modules Tools	Changing the Currency Ra	te on Existing Documents	
	ler (Edit Mode - Multiple Item)		×
xlol sorwo #	000004 Change # 0	Document Currency	
Order Date	05/30/2012 Sales Type Order Entry	YEN	Back
Custom	er Billing / Shipping Delivery	Item Info CANADIAN \$	Next
	Root Address Lookup	Account # NAK001 HK DOLLARS	Items/Notes
	Nakano Technologies	Addr Type CUS POUNDS RUBELS	Junks
	Hiro Nakano	Terms Net 30 YEN	
Street	12-1, Higashikotari	Credit Card [None]	Add Item
		stomer PO# 12695	
	Tokyo	Contact	Clone
State / Zip	589-6547 Rel	la	a <u>k</u> down
Country	Japan		elete
Phone #	86-532-8325-7977	If you recently updated the Alternate	
e-Mail	hnakano@nakanotech.com	E Currency Rate and want a previously ent document (ex. Sales Order) to reflect t	
Item Part I	Number Rev Description [	change, select Modules, Sales Order, E	dit /
	TEST ASSY Top Assembly	View, and select that Sales Order. Char	
Quantity	Unit Sale Price Tax % Freight	the Document Currency back to Bas Currency, then again to the desired Alter	
1000.0	· · · · · · · · · · · · · · · · · · ·	Currency. This will "refresh" the Curren	
Comments	Displayed Currency YEN	Rate.	
			1
			ished
		Confirmed / /	Cancel
Currency in whic	h the Sales Order is to be billed.		

# 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 Credit Card [ None ]	The currency and it at the time it was stored with that doo	entered will be
City	Obata-shi Tokyo	Customer PO# 12695 Contact	you print out the do date, the currency ratio you originally	ocument at a later / ratio will be the
allows th displayed the track	ayed Currency list box the user to convert the costs/prices into any of red currencies without hanging the document currency.	Related Doc # Territory Region Entered By KK	the current cu	
Quantity 1000.0	TEST ASSY 0 Assembly Unit Sale Price Tax % Fr	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			

🔄 pc/Mi	RP for	Windows				
Dec/Mi		Optional Alternat Audit Tr Custom E.C.N. Employ Infinite Passwo Purchas Quick <u>B</u> Routing Sales A Sales Q	<u>C</u> onfiguration e <u>C</u> urrency rail er Bul <u>k</u> eMailer ee Time Trackir Bucket <u>M</u> RP ions rd se <u>R</u> equest ooks Export nalysis	Manual	New Inspection record View / Edit Inspection Records Perform Inspections Reports Index Remove Marked Records Remove over X Years Settings	
Optional Mo	odule - li	nspection		-	NU	M

# **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/inspectionoverviewselectinspections.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

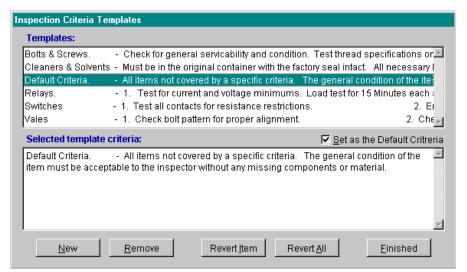
# 16.13.2.1 Inspection Window Message...

Enter the text message to b	be displayed on the inspection screen
the discrepancy/reason for r	cord for each requirement. Include rejection and the disposition of the enter any corrective action taken if
<u>0</u> K	<u>C</u> ancel

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: 000000	0001 Descriptio	DN: BEARING	
Inspection	n Criteria	Create Inspection Requirement	s:
		When Receiving from vendor	r 🛛
C Default	C External File	When returned from MFG	
Template	C Custom	When Invoicing a customer	
		When Shipping to customer	
Templates:			
Cleaners & Solvents - Default Criteria Relays	Must be in the original co All items not covered by a	ability and condition. Test thread specifica ntainer with the factory seal intact. All nec specific criteria. The general condition o oltage minimums. Load test for 15 Minute sistance restrictions.	essary I f the iter
Selected Template C	riteria:		
	-	ability and condition. Test thread specifica per specifiction in section 82.91.1 paragra	
Eind File Ope	en File	<u>k</u>	2ancel

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
Save	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, Reports

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: INFORECEIVERS INFORMATION INFORMATICA INFORMATICA INFORMATICA INFORMATII INFORMATICA INFORMATICA INFORMATICA
	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.

Inspections Type	Required. Doc #	Item#	Date	Part#	Description	Quantity 🛋
Invoice	876578		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
<						Þ
<u>P</u> rin	t			Inspect	<u>E</u> xempt	<u>C</u> ancel

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.

Printing Inspection Requirements	
Output Format C Requirement List C Inspection Sheet(s) C Selected Requirement C All Requirements	Send Output To Display
☐ Sa <u>v</u> e Settings as Default	<u>O</u> k <u>C</u> ancel

If users select Inspect... the Inspection Form will be created. This is where the actual inspection takes place.

pc/MRP for Windows - Version 8.0	)4C (User: DOUG)	
<u>Modules</u> <u>Tools</u> <u>Optional</u> <u>Configuration</u>	Ma <u>n</u> ual	
Inspection Form - (Edit Mode)		
Inspect # 0000000001	Part Number RES-	00001 Inspection Criteria
Record Type Receiver		, 100 OHMS, 5 VOLTS Displays Inspection Criteria
Document # 000001 0	0001 Vendor Id/Name ABC0	002 ABC MANUFACTORING
		Date Created 08/26/2005
		Inspect Date 08/26/2005
		Inspector DS
	•	Status Accepted
<u>D</u> iscrepancies	Corrective <u>A</u> ctions	Change the inspection status
Enter the discrepancie	s Enter the corrective	Inspect Qty 200,000
	actions.	Accept Qty 197.00
		Rejected Qty 3 Fill in the Inspected
The Customer's PO		Auxiliary Qty, Accepted Qty, and Rejected Qty
Number is automatically		
inserted into the Auxillary Field when entering an		Deleter
invoice. The Vendor's	<b>v</b>	Ok Versions 8.02 and higher)
Invoice Number when entering a receiver.		can be used to store vendor invoice numbers, customer
g a sound		PO numbers, etc.
Inspect (c:\pcmrpw\inspect.dbf)	Record: 1/1	Record Unlocked NUM

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.

#### **Inspection Reports**

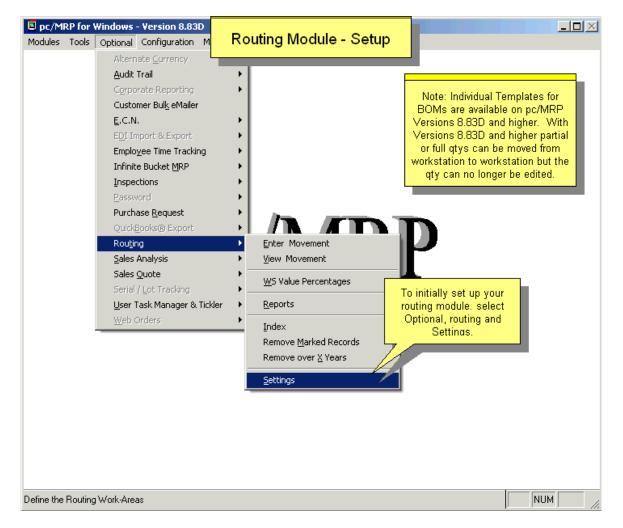
There are two inspection reports that can be run, All Inspections and Inventory Inspection List. Both report types can be sent to a variety of different display types and users can create custom Inspection reports.

- 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
	1 1		,	1	Date Required 🔹
Include	Limit To	Date Range		2	Inspection Type 🔹
				3	Part Number
Record	Received	Invoiced			
Туре	MFG Return	Shipped			0
		i omppod		L r	Send Report To
					Display 🗾
Status	Not Inspected	Rejected			
	Accepted	Exempt			Report Type
				0	Standard C Custom
				<u>ا</u>	CUSINS01.FRX
Text	🗖 Discrepancy Text				
Comments	Corrective Action Text			⊡ s	a <u>v</u> e current settings as default
					<u>O</u> k <u>C</u> ancel

# **16.14 Optional Routing Module**

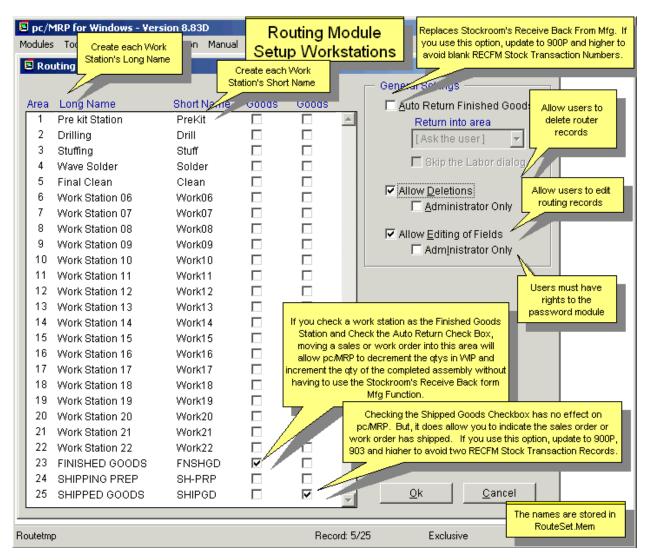
#### 16.14.1 Overview



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

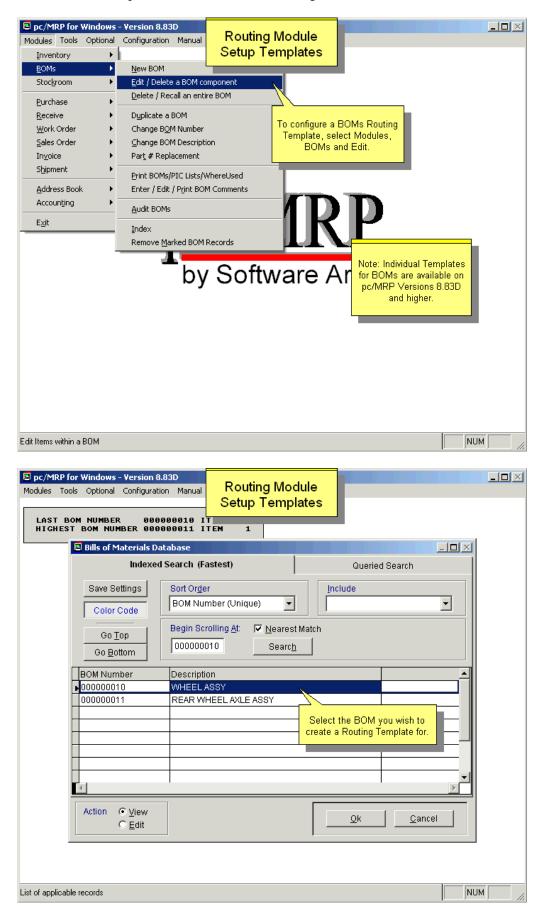


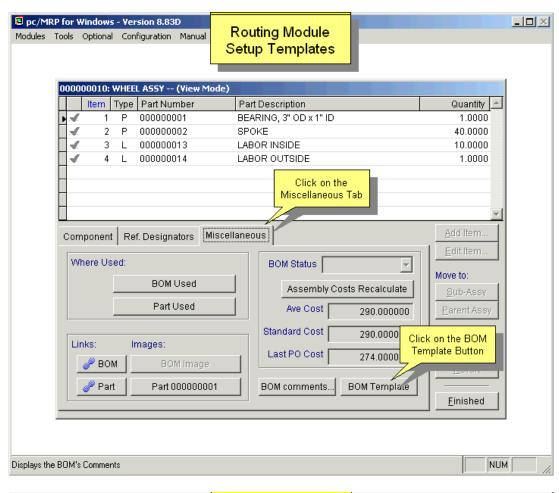
Selecting "Settings" will open the "Router Module Settings Screen" shown above. This screen allows you to setup your routing module as follows:

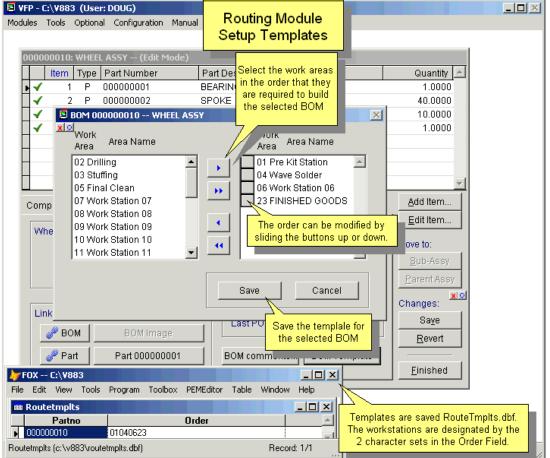
- Select each area and enter a long name (15 char) and a short name (6 char) for each workstation on your factory floor. For example, you could enter Milling Station as the long name and Mill as the short name for area 06. The short name is used for report headings.
- If you select one of your areas 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: http://www.pcmrp.com/mrp101/routingsettingsmenu.htm)

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.

Modules Tools Optional C Enter Movement	1.*Select the sales or work order you want to move from one work station to another by entering, scrolling or barcode in the sales or
Routing Screen      Mork Order     000101-0001     Scroll	work order number. The Delete Button will not be visible if you are Editing and in the View Mode.
Part Number 000000010 Description WHEEL ASSY	Edit       2. Select the area part or all of the sales order is to be moved from.         Movement       3. Select the area part
Wave Solder O Work Station 06 O FINISHED GOODS O	Pre Kit Station       Image: Constraint of the sales order is to be moved to.         To Area       4. Enter the quantity to be moved and press the Move Button.         Quantity       10.0000 Image: Move
* 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.	Output to Display Output Output Output Output

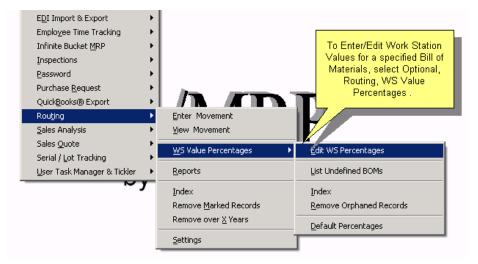
You can display a routing record for a sales/work order by selecting the "Enter Movement" option on the routing menu. Enter or "Scroll" for the sales/work order you wish to display. The "Enter Movement" screen provides the following options:

- 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 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.

PC/MRP for Wir Modules Tools O							
		ork Station Value er: 000000010 WHEEL ASSY	an as of th Perc labor Perce	ssembly, will all e cost of the as centages entered	ow you to em sembly at ea d reflect the v ly up to and i	and then choosin ter the percentag ch routing stage. alue of costs and ncluding a routing ays be 100%.	e I
	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> 8	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 wh display/	percentages are nen you select to print values on a station report.
Wsbuffer				Record: 1/1	Excl	usive	

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.

# 16.14.5 Reports

Selecting Optional, Routing, and Reports brings up the following screen:

Routing Reports     1. Select the report type     4. Select the sort order     All Records     All for a Sales/Work Order Number     All for a Product Code     All for a Product Code     All for a Related Document Number     FAll for a Customer Account Number     Guantity     Quantity     Quantity     Quantity     Quantity     Consolidate by Part Number     Saturd Custom     Saturd	pc/MRP for Windows - Version 8.30J Modules Tools Optional Configuration Manual	_0×
NUM	■ Routing Reports       1. Select the report type         All Records         All for a Sales/Work Order Number         All for a Part Number         All for a Product Code         All for a Related Document Number         Fall for a Customer Account Number         I for a Customer Account Number	Sort by Work Order Number 5. Select Display, Print, Etc. Display 7. Select Std or Custom © Standard custom ct additional otions. Save settings Qk Qancel

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)

# **16.15 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.

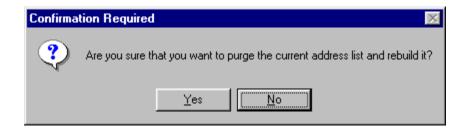
🧧 Bulk Email	Utility		_ 🗆	×
Address List	Add Remove Purge Address Lis	st & Rela	oad	
Address Id	eMail Address	Sent	Bad	<b>A</b>
_				
				-
_				
	Sort By Address Id	st		
8	pc/MRP Newsletter			
Messa	ge File			
Reports		E <u>x</u> it		-

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	
🔹 .λ.terp survey.ppt	
\\faq_about software arts.doc	
	$\checkmark$
Add <u>R</u> emove <u>O</u> K	<u>C</u> ancel

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.

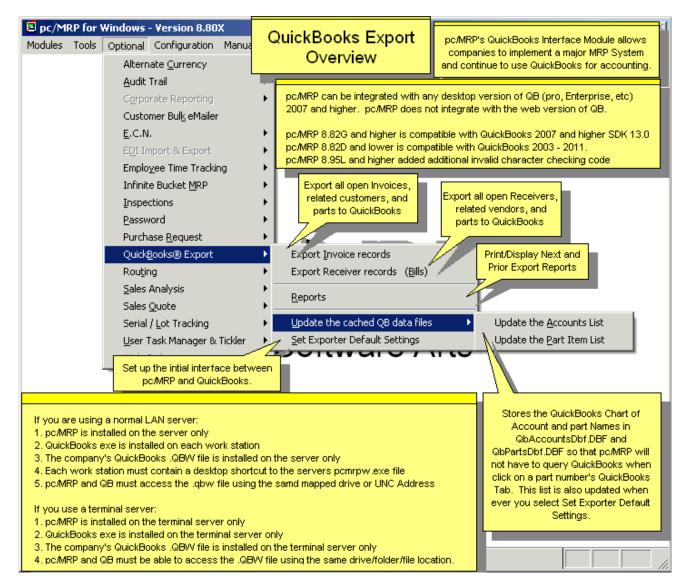
Email Report Options	×
Select the	desired report
Report Type	Sort By Customer Id
C <u>S</u> ent Only C <u>U</u> nsent Only C <u>B</u> ad Only	Send <u>T</u> o Display
	<u>Ok</u> ancel

## 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.

**Note:** pc/MRP **8.82G** and higher uses **QBFC2** and is compatible with QuickBooks 2007 and higher. pc/MRP **8.82D** and lower used **QBFC 13.0** and was compatible with QuickBooks 2003 - 2011.

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).

pc/MRP for Windows - Version 8.20F <u>Modules</u> Tools Optional Configuration Manual     Altemate Currency     Audit Trail	QuickBooks Export Open Invoices	
Corporate Reporting Customer Bul <u>k</u> eMailer <u>E</u> .C.N. Employee Time Tracking Infinite Bucket <u>M</u> RP Inspections <u>Password</u> Purchase <u>Request</u> Quick <u>Books® Export</u> Routing <u>S</u> ales Analysis	<ul> <li>To export all open pc/MRP Invoices with all related part numbers and customers to QuickBooks, select Optional, QuickBooks and Export Invoice Records.</li> <li>Export Invoice records</li> <li>Export Receiver records (Bills)</li> <li>Reports</li> </ul>	
Sales <u>Q</u> uote Serial / <u>L</u> ot Tracking <u>U</u> ser Task Manager & Tickler	<u>S</u> et Exporter Default Settings	
Before exporting an invoice, if they are NOT already in QuickBooks, pc/MRP will insert the invoice's customer, part number, classes and acct numbers. If QuickBooks already contains those items pc/MRP will not insert them. 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). 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.		

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.

pc/MRP for Modules Tools      Scheduler H	Windows - Version 8.30P Optional Configuration Manual Alternate <u>C</u> urrency Audit Trail	QuickBooks Export Open Receivers
	Autor train         Corporate Reporting         Customer Bulk eMailer         E.C.N.         EDI Import & Export         Employee Time Tracking         Infinite Bucket MRP         Inspections         Password         Purchase Request         QuickBooks® Export         Routing         Sales Analysis         Sales Quote         Serial / Lot Tracking	To export all open pc/MRP Receivers with all related part numbers and customers to QuickBooks, select Optional, QuickBooks and Export Receiver Records.         Export Invoice records         Export Receiver records         Export Receiver records         Export Receiver records         Set Exporter Default Settings
Before exporting a receiver, if they are NOT already in QuickBooks, pc/MRP will insert the receiver's vendor, part number, classes, and account numbers. If QuickBooks already contains those items pc/MRP will not insert them. 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). 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. Receivers will be inserted into QuickBook's Memo Field with a prefix of "R" to identify receiers imported from pc/MRP.		

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.

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.

If your company has not been using QuickBooks follow steps 1-22 listed below:

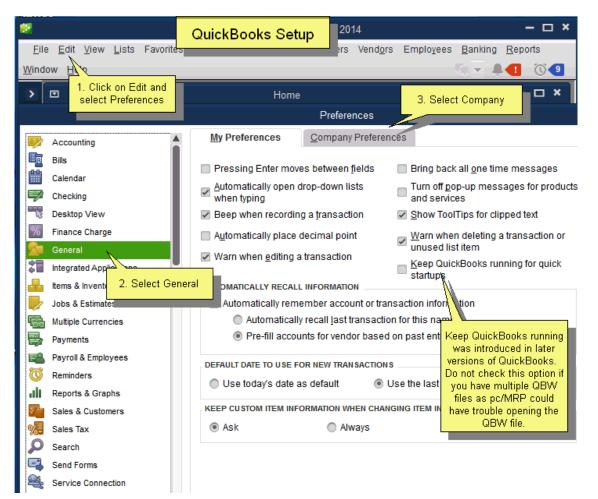
- 1. Start QuickBooks (a copy of QuickBooks must reside on this computer)
- 2. Select "File" and "New Company".
- 3. Click on the Next button 7 times.
- 4. Enter your company's name and address.
- 5. Enter your company's Tax ID # and start of fiscal year.
- 6. Pick the income tax form that your company 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:

1	XYZ -	Quick	Books	Pro Edit	ion 200	3									<u>- 0 ×</u>
E	ile <u>E</u> dit	<u>V</u> iew	<u>L</u> ists	Company	y C <u>u</u> sto	mers Vend	l <u>o</u> rs Emp	oloyees	<u>B</u> anking	<u>R</u> eports	<u>W</u> indow	<u>H</u> elp			
i I	New Co	mpany.		~		4	ø		<b>P</b>	16	Q	2	្ព		
	Open C			_	1-1	-Check	Rill	Rea	Acont	Rmod			Backup		
	Open P			ny	If your	company	has not	been u	ising Qui	ckBooks	s, select	File, N	ew		
		e <mark>p Interv</mark> ompany			Comp	any. See	e Chapte	er 16.16	5.2 Step	3 for spe	cific inst	ruction	S.		
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11-				lf yo		any has t									
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1	<u>A</u> ccoun	tant's R	eview												
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1	1. If yo	u are d	curren	tly using	1										
				kup the											
QuickBooks QBW file prior															
	setting up the QuickBooks														
	pc/MRP Interface.														
, L															

- 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:** If you have **multiple QBW files**, see the picture below about "Keep QuickBooks running for quick startups":



## Step 4. Locate your default QuickBooks Company

(see slideshow here: <u>http://www.pcmrp.com/mrp101/qbexportoverview.htm</u>)

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.

pc/MRP for Windows - Version 8.20F	
Modules Tools Optional Configuration Manual	
1. To locate the Quick File, Press the Loca	te Button.
Location of the Company file used by QuickBooks®.	
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	
Do You Charge Sales Tax? © Yes O No	Import Import from QuickBooks®
I collect single tax rate paid to a single tax agency	Map Addresses
QuickBooks® company file Location	ns
En inv Before pc/MRP can access QuickBo Iocation of the appropriate QuickB	. IDUOII
En Please review the location of the file an	nd change it if necessa 2. Press the Button
(e En Wh	
SI <u>QK</u> <u>C</u> ancel	
Use pc/MRP divisions for QuickBooks® Class	es <u>Set-up Div/Clas</u> <u>Ok</u> <u>Qk</u> <u>Q</u> <u>Ok</u> <u>Q</u> <u>Note: Each computer</u> 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
Qbaccess (c:\pcmrpmanualdemo\qbaccess.dbf) Record: 1.	/1 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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	Export to QuickBo	poks® Default Settings		Press the Test			
	Location of the Co						
	Do You Charge Sales Tax?       Import         Import from QuickBooks®         Import from QuickBooks®         Import from QuickBooks®         Map Addresses						
	C I collect multiple taxrates OR pay multiple tax agencies Map Part Items Enter a sales tax description to be printed on invoices: MRP Sales Tax Description						
	Enter your sales ta: (e.g. "5.2%");	<pre>x rate here as a percentage</pre>	10.000%				
Control Panel Settings. Ch make changes User Account If this doesn't "Never notify", then change U Note: Vista: 1 on and reboot	s 7 and Windows 8: / 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. wotion again. Change tting.	CALOO1					

Minimize your pc/MRP window.

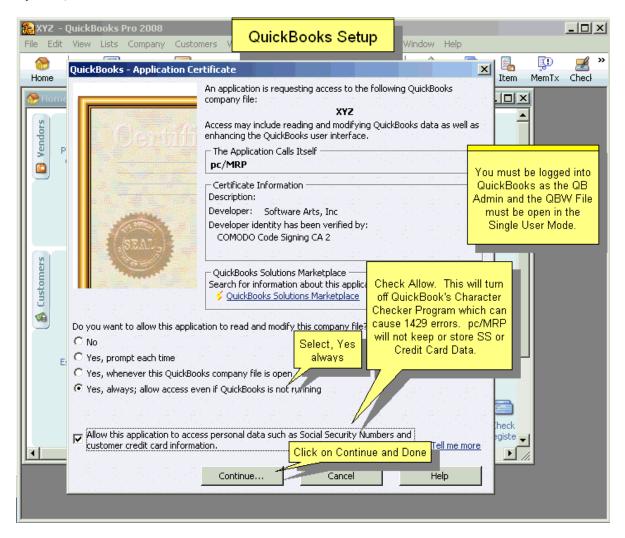
**Note**: Windows 7, 8 and 10: If the connection fails, select Control Panel / User Accounts / Change User Account Control Settings. Change to "Default – Notify me only when programs try to make changes to my computer". Now try connection again. Change User Account Control back to the original setting.

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".

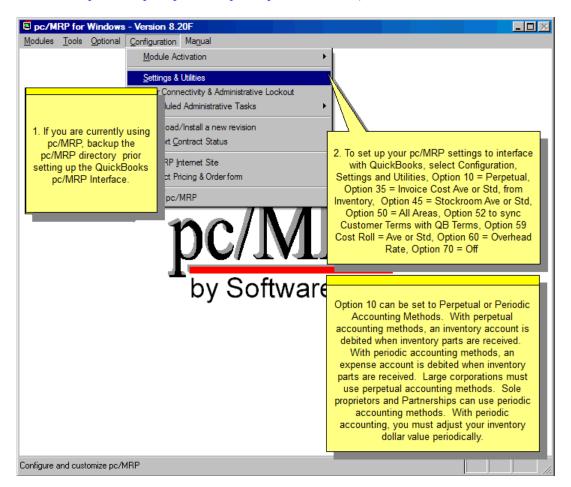
Check "Allow this application to access..." This will turn off QuickBook's Character Checker program which can cause 1429 errors. pc/MRP will not keep or store SS or Credit Card Data. **Note:** This recommendation is different from our recommendations for earlier pc/MRP versions. The change is due to 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.

It appears that pc/MRP must register as the Administrator and not under another name.

**Note:** 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.

(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.

pc/MRP for Windows	- Version 8.20F	
<u>M</u> odules <u>T</u> ools <u>O</u> ptional	Configuration Manual	
pc/MRP Part Number pc/MRP part tem to Quie t# [00000001 D QuickBooks® Id Numbers	<ul> <li>Export to QuickBooks® Default Settings         Location of the Company file used by Quickf         C:\Program Files\Intuit\Quickbooks Pro\New         Do You Charge Sales Tax? • Yes         I collect single tax rate paid to a         I collect multiple taxrates OR p         Locate QuickBooks' part item         Scription BEARING 3.000D x 1.00     </li> </ul>	Account Numbers Click on
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# 000000002 D Quic 000 If the accounts ar	e left	Type Part - Inventory 4. Scroll to the next part Cost of Goods Solutions
blank, pc/MRP wild debit and credit default accounts lis	the	Asset/Expense Account
As: Part	tings e Labor, Expense account for office s	

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.

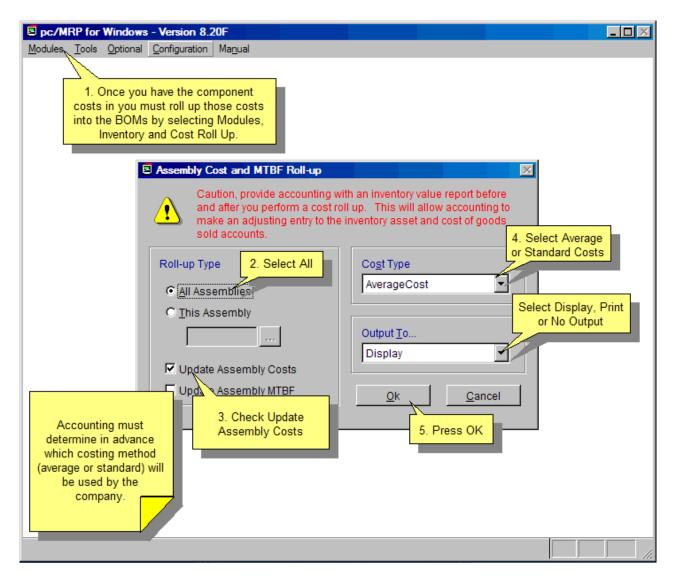
**In the future**, enter new part numbers into pc/MRP only. pc/MRP will export the part numbers to QuickBooks as necessary as "non inventory parts."

# 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	X
Location of t C:\Program I Do You Charg	Ecodic Filo
pc/MRP Customer	oport from QuickBooks®
Vendor List 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	Customer ABC MANUFACT - Cust - ABC001
MOUNTAIN VISTAS, CA 12345-1234	Vendor
Addr Id Company Name	Customer 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.ldCompany 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	nder from the
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

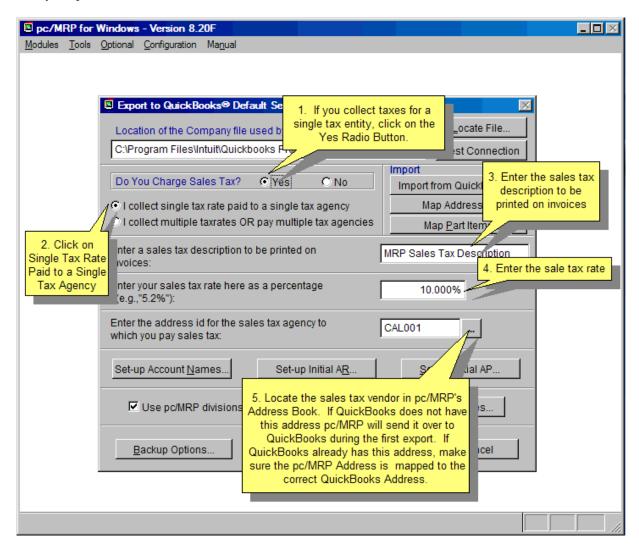
pc/MRP for Windows - Version 8.20F	
<u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u> Ma <u>n</u> ual	
Export to QuickBooks® Default Settings	
Location of the Company file used by QuickBooks®	Locate File
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	Test Connection
Do You Charge Sales Tax? O Yes SNo	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 Names Set-up Initial AR	Set-up Initial AP
Use pc/MRP divisions for QuickBooks® Classes	Set-up <u>D</u> iv/Classes
Backup Options Help Me	<u>C</u> ancel

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:

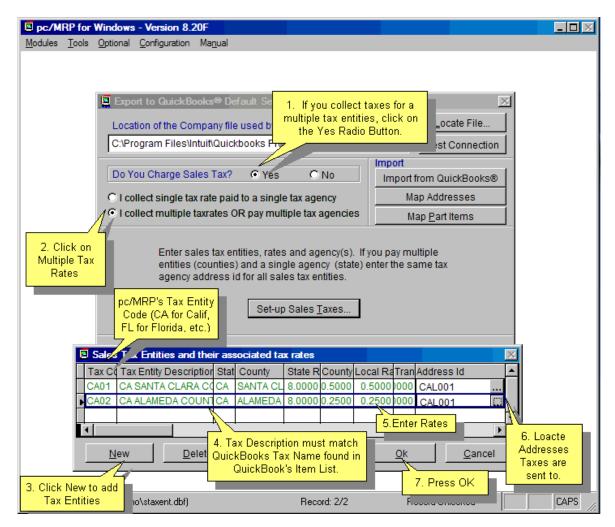
- sales tax description that will appear on invoices
- sales tax rate
- address id for your sales tax vendor (state agency that collects sales tax).

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.

Please note that the Tax Entity Description should be worded such that it makes sense on an invoice. Instead of "CA ALAMEDA COUNTY", it should read "Sales Tax, Alameda County". If you pay sales taxes to more than one state, it should read "Sales Tax, Alameda County CA".

Also note that 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. This means that if you already have a Sales Tax Item in QuickBooks, you can change the Sales Tax Item Name to match pc/MRP's Tax Code if you do not want to end up with two different Sales Tax Item Names for the same Sales Tax Entity.

# Step 14. Enter 11 base chart of 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.

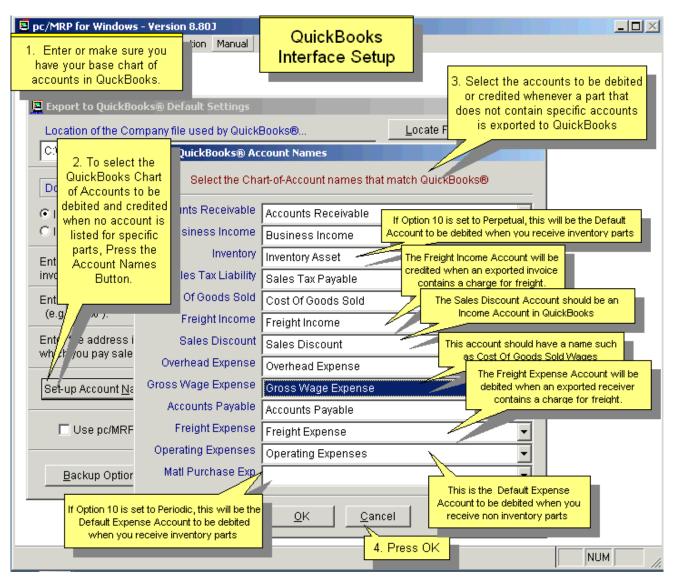
If your copy of QuickBooks does not contain a chart of accounts or is missing some of the accounts shown below, you must create the accounts shown below. To add these accounts to your QuickBooks chart of accounts, start QuickBooks, select "Accounts", and "New".

The account types must match the account types shown below.

<b>Base Account</b>	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.





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.

## 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 QuickBooks	If you want to specify unique
Interface Setup	account numbers for specific
	part numbers, edit the part
Inventory — (Edit Mode)	number and click on the QuickBooks Tab.
Part # CON-00001 Type Assembly	tion Criteria
Description CON, PCB MOD JACKS	Displayed Currency BAS, CURRENCY -
Quantites \ Costs This is the equivalent QuckBoo directly from QB by clicking on	
parts that require unique accou	
use the Part Manner Button or	n the Default Settings Screen.
QuickBooks®	time the item is invoiced or Reveal
QUICKBOOKS THE HEXT	time the item is invoiced of Rec.
Inventory Id CON-000	
	Select any QB
Select from any QuickBooks Other Current Asset, Expense, Fixed Asset,	COGS Account –
Other Asset or Other Expense Account.	
Income Account Rusinges Income	
Income Account Business Income	<u>\</u>
Asset/Expense Account Inventory Asset	
Asset account for Inventory Asset	Other Current Asset 💽 🖬 📜
(Accoun Freight Expense	Expense Select from any
Gross Wage Expens	se Expense QuickBooks
Operating Expenses	Expense Income Acct,
Insert Account Name from QuickBooks. If a file named ALLOW	COGS.FLG Expense LongTerm
exits in the pomrp folder, po/MRP will allow users to select a CO	OGS account
for the Asset/Expense Account for PART- NON INVENTORY pa 8.90L, 8.94J and 8.95D and higher will allow Other Current Liab	art numbers.
Types to make a payment to your credit card provide	

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.

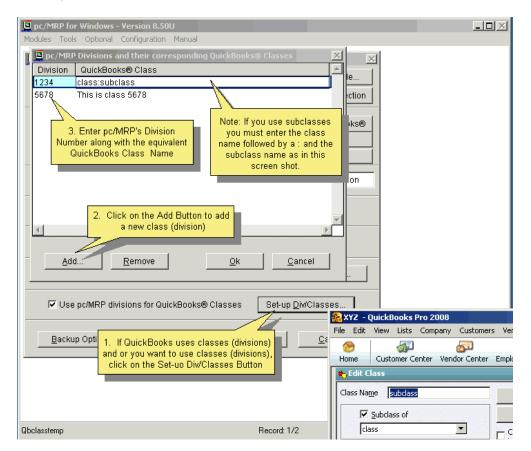
If the part is an outside labor part and it has been added to a BOM, select an inventory asset account for the Asset/Expense Account Field. If the outside labor part has not been added to a BOM, select an expense or COGs account for the Asset/Expense Account Field.

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

<u>If you do not use divisions and/or departments</u>, 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.



<u>If you do use divisions and/or departments</u>, 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.

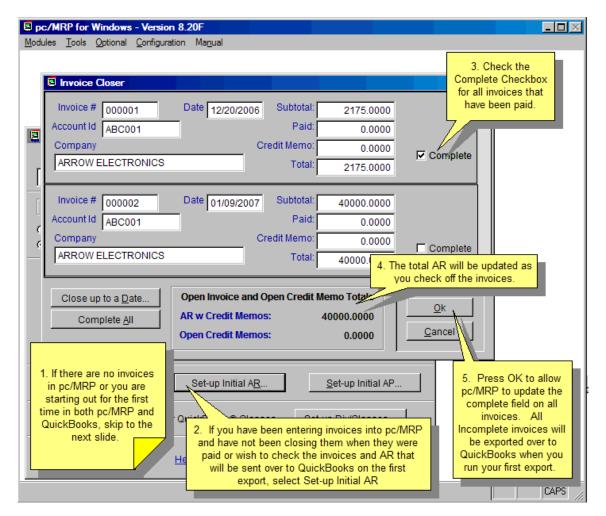
If you are starting out for the first time with both pc/MRP and QuickBooks, continue to step 21.

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.

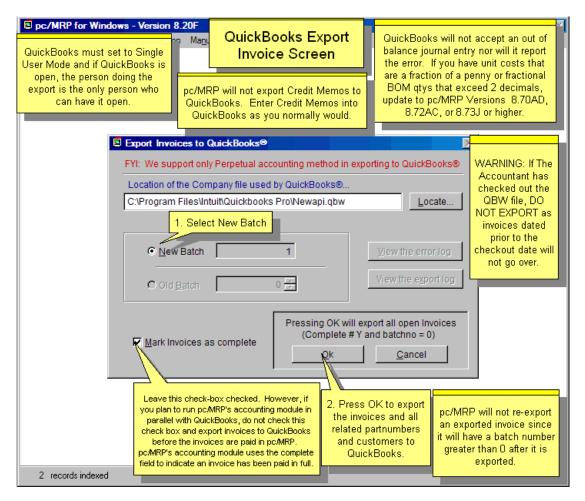
Pressing the OK button will not export the invoices. Pressing the OK button will change the invoice complete fields as per the changes you made with the closer. All invoices that are not marked as complete and have a batch number of 0 will be exported in the next step.

## 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.

pc/MRP for Windows - Version 8.20	)F				<u> </u>
<u>M</u> odules <u>T</u> ools <u>Optional</u> <u>C</u> onfiguration	Ma <u>n</u> ual				
Export to QuickBooks® Default	Settings		×	1	
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### 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.

🖪 ро	c/MRP for Windows - Version 8.20F			
<u>M</u> odu	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 bills, Ch 2006 4	o QuckBooks have	s as an open Checkbox for
	Receiver #       000002       Vendor Inv       3345         Account Id       ABC001       Date       01/03/2         Company       ARROW ELECTRONICS         Close up to a Date       Open Receiver and         Complete All       Open Debit Memos	De Complete	Paid: bit Memo: Total 4. The tota you cho	70.0000 0.0000 0.0000 al AP will be updated as eck off the receivers.
ti	next slide. and AR that will be	een entering receiv not been closing t wish to check the	vers into hem when receivers kBooks on	5. Press OK to allow pc/MRP to update the complete and endor invoices on all receivers. All Incomplete receivers with rendor invoice numbers will be exported over to QuickBooks when you run your first export.

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")

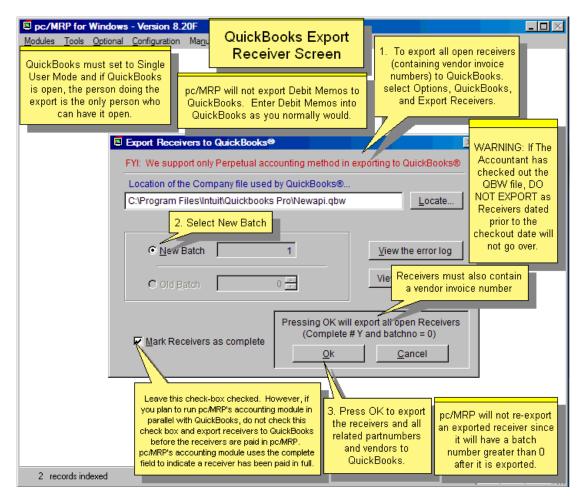
Scroll the receivers and check the complete check box for all paid receivers and debit memos and add the vendor invoice number to all receivers that you wish to export, until the AP with Debit Memo Total is correct.

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.
Page 772 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

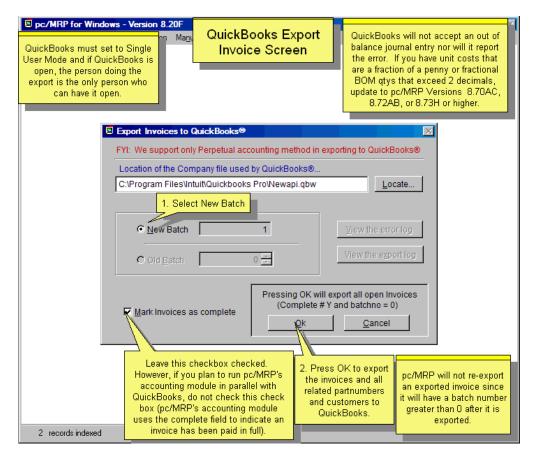
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	-				s Tax Pa								rent Liability		4.00
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		siness Se	nvicoe	♦Busi	ness Inco							Income			
			avices	1.0.0	ght Incon t Income							Income Income			
	🙇 Rep	ports			s Discour							Income			
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If you have been running QuickBooks prior to this implementation, you can skip this step.

If are just starting with QuickBooks 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.

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 OuickBooks 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**

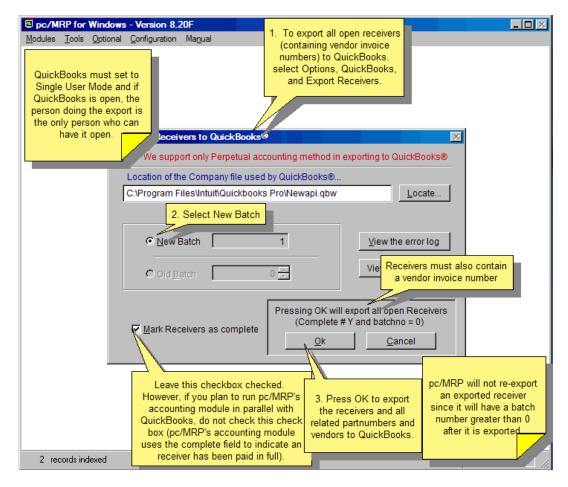
A Part and Assembly Item can be purchased and sold The Asset/Expense account field should be filled with a OuickBooks inventory asset account The COGs account field should be filled with a QuickBooks COGs account The Income account field should be filled with a QuickBooks Income Account If any of the 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.

## 16.16.4 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 Ite	em
COGS			
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 not 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.)

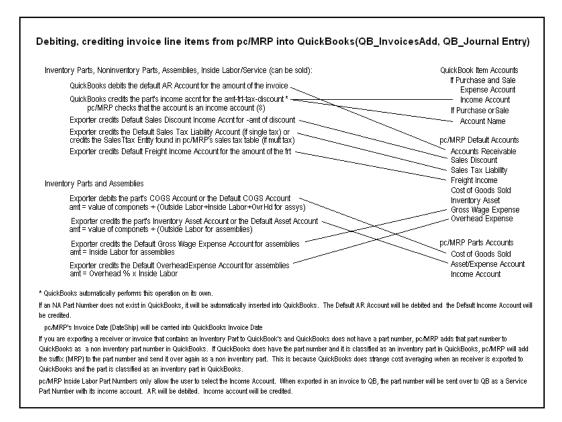
If a NA part number exists in an invoice or receiver that is being exported to QuickBooks, and QuickBooks does not contain a NA part number, pc/MRP will insert the NA partnumber into QuickBooks as a non-inventory item with the default income and expense accounts.

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.

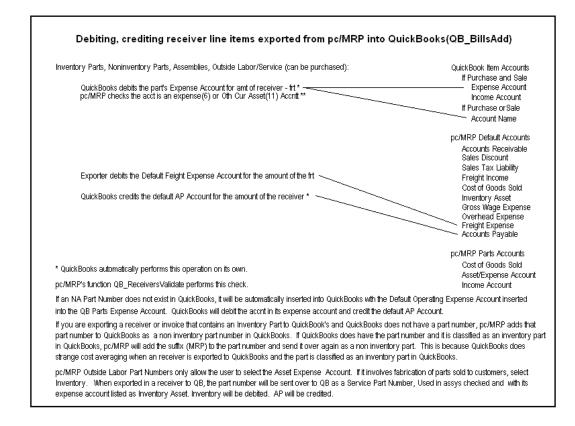
### 16.16.5.2 Debiting and Crediting Invoice Logic

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 QuickBooks

(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 of the tax is the default sales tax is the discount of the tax is the discount of tax is

If the discount  $\neq$  0, credits the default sales discount account 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

<mark>ENDIF</mark>

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 create an XML event log if a blank file is created with Notepad exists in the pcmrpw directory with the same name as the function that produced the error. To fill the request logfile, give the file a .txt extension. To fill a response logfile, give the file an extension of .xml. 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 contain the invoice, receiver or general ledger entry.

The invoice, receiver or GL entry had a cost of \$0.00.

## 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.

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 (exportgberror.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.

• 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.

#### 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 pc/MRP versions **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.

#### 16.16.6.1000 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 OBFC 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 and 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 pc/MRP 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 OB 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:

 $,./<>?;':()[] {} =_+!@#$%^&*'' (/ was not acceptable in versions 8.90G and below) 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. Version **8.95L** added additional invalid character error checking.
- 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.

### 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.

#### 16.16.6.3140 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.

#### 16.16.6.3260 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:

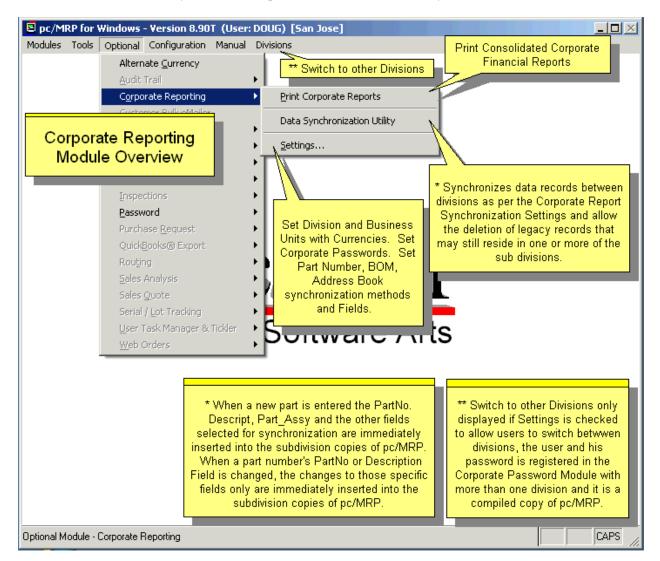
8. Accounting will add the vendor invoice number to the receiver and export it to QB as a bill9. Accounting will cut a second check in QB for the amount of the goods minus the deposit.

# **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

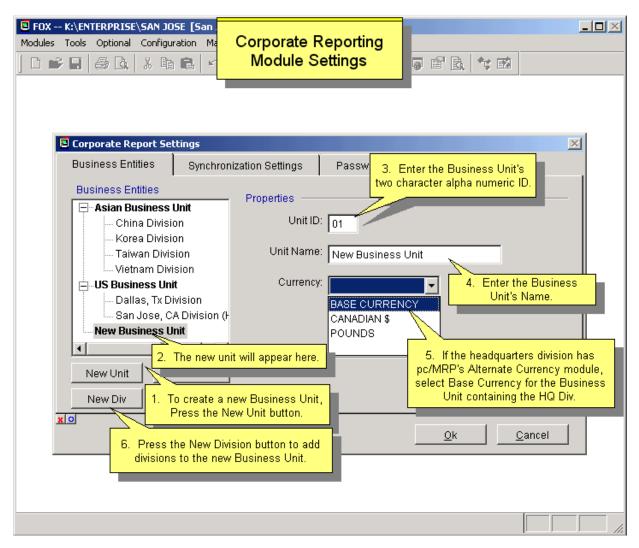
Select Configuration, Module Activation, and then Corporate Reporting Module from the menu. To activate this module, select Configuration, Module Activation, and Corporate Reporting. Then select "Free 10 day trial" or "Full activation" and enter the activation code number supplied by Software Arts.

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**

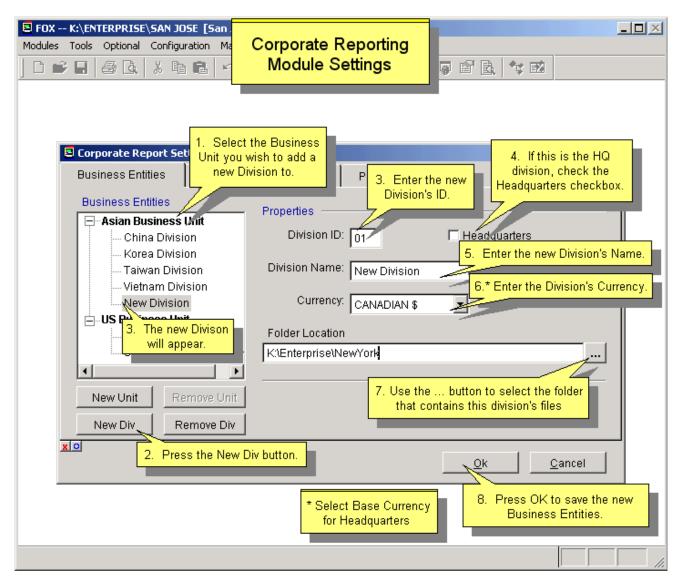


A company <u>must create one or more</u> Business Units. Business Unit(s) report to the entire corporation. Divisions report to the Business Unit(s).

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 796

#### 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:

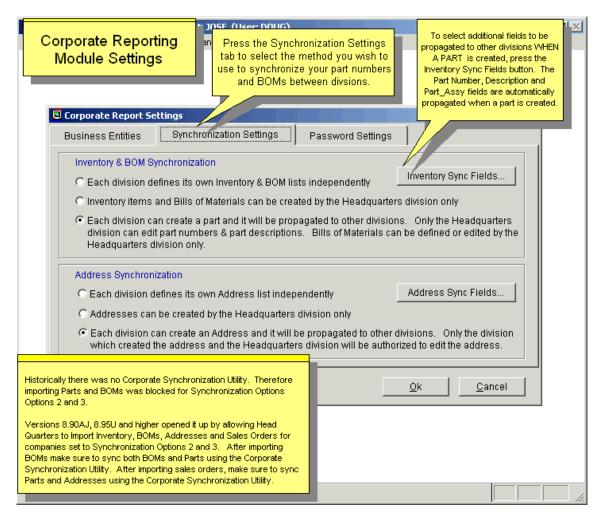
- Method 1 Open the HQ division. Select Configuration, Module Activation, select Corporate Report module, and select Deactivate. Then reactivate the Corporate Report module with your new activation code number by selecting Configuration, Module Activation, Corporate Report, Activate, and enter your new 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



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.

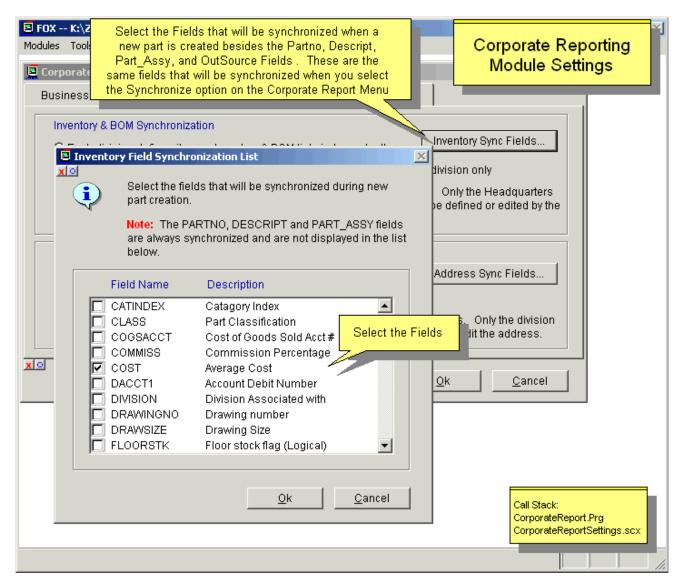
Selecting the middle radio button will allow only the HQ division to create address records. If HQ edits an address, the ID, Name, Start Date, Division fields are propagated. The new and edited addresses will be propagated to all other divisions within seconds. Other divisions are not allowed to edit 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.

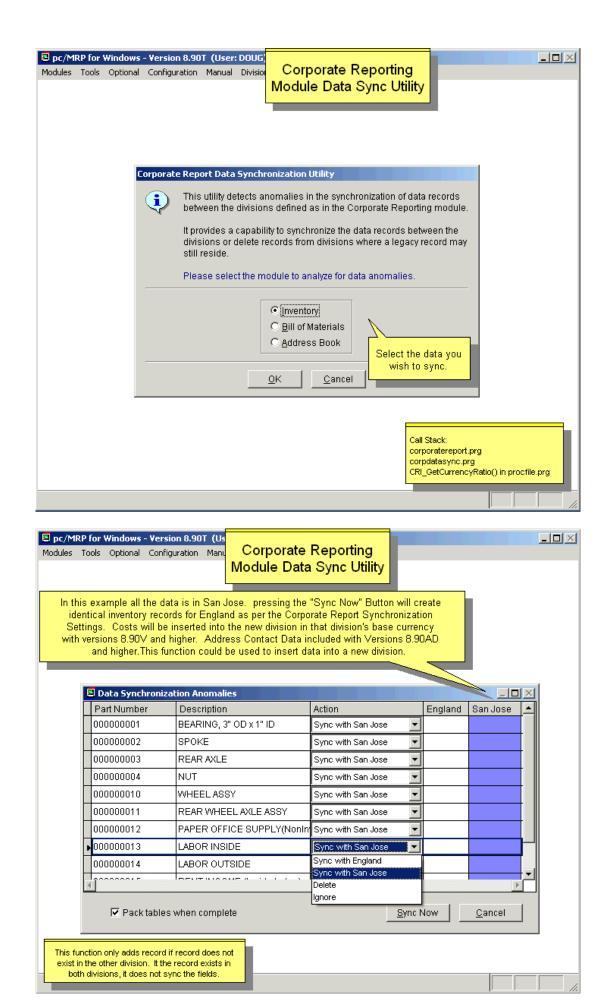
#### Step 4, Propagating Additional Partmaster or Address Fields



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 (8.90W) ^ If checked, Contact fields will be included (8.90AD)
Inventory Each Division can create parts, Only HQ can edit part numbers and part descriptions
HQ Creates new part PartNo,Descript,Part_Assy,OutSource(8.90U)+checked fields propagate to DIVs * DIV Creates new part PartNo,Descript,Part_Assy,OutSource(8.90U)+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

DIV removes marked BOM records - Records get removed from DIV only

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d	lisabled with th between divis	menu can be enab he "Allow users to sions" checkbox be	switch		to set the	e Enter, Ec	ord Settings tab dit, and Delete ch Division.
	E Corporate R Business En	eport Settings	onization Settings	Password Sett	inas		
ſ	User Nam		Employee ID	Location	Last Update	Inventory	вом 🔺
	BILLY	******	Employee ID			N	N
	BILLY	******		China Division	Asian Busines		
	BILLY	******		Korea Division	Asian Busines Asian Busines		
	BILLY	******		Taiwan Division Vietnam Division	Asian Busines Asian Busines		
	BILLY	******		Dallas, Tx Division	US Business	Unit	
		****		San Jose, CA Divisio China Division	orUS Business    10/17/2003	Unit I D	┍╼┝╴║
			<u> </u>	Taiwan Division	10/17/2003	N	
	1	Note that Doug car access 3 Divisions.		Dallas, Tx Division	10/17/2003	N	
		access 3 Divisions.			10/17/2003		
	New	Delete		Control password a			evel
x	passwo	nter a new ord, click the w button.		To allow users to a between divisions, this checkbox	switch i c check	orporate le	asswords at th avel only check heckbox.

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.

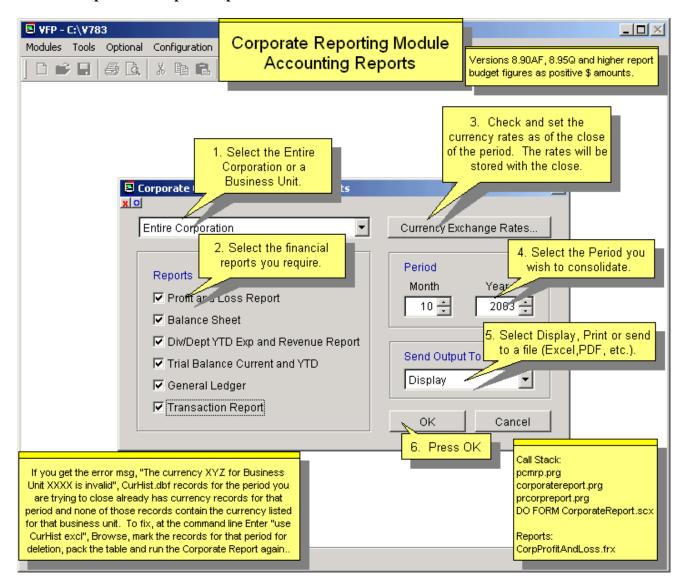
If the "Control password accounts at the Corporate Level" checkbox is not checked, passwords are managed at the division level. If it is checked, all passwords are controlled at the HQ division.

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**

					Page	: 1
					raye	. 1
DHESIVE TECHNOLOGIES IN						
/08/2003						
D EXPENSE AND REVENUE REPORT 10/03	FOR Entire Corporat	ion				
ACCT TESCETFY100	HONTH	111		YID BUDGET	<b>7106</b>	אונע אי ענוינ
HIVESUN ASCH TUTALS:	5040.40	12590.00	4000.00	8040.00	125.00	155.25
III VII SON ASHO TOTALS :	10000.00	25000.00	00D0.00	16000.00	125.00	104.15
III VI SON ASTV TOTALS :	3333.00	6992.50	2666.40	5992.60	125.00	20.40
HIVE SOF DESIGN TOTALS:	10000.00	23 000 . 0 0	1000.00	16000.00	125.00	55.14
IIIVISUN USIL TOTALS:	10040.00	20000.00	¥000.00	16040.00	125.00	40.75
HIVESON WSEF TOTALS:	15000.00	15000.00	00D0.00	6000.0D	107.50	21.63
HEVENUE TOTALS	53 333 . 00	110832.50	39666.40	69992.00	137.93	159.65
T OF COORS SOLD						
HIVESUN ASCH TUTALS:	0.00	-3950.00	9.99	0.00	0.00	0.00
HIVESON ASHD TOTALS:	0.00	-7900.00	0.00	D.OD	0.00	D. QD
III VISON ASTV TOTALS:	0.00	-2699.07	0.00	D. 0D	0.00	D.QD
III III SOH INSUH TOTALS:	0.00	-7960.00	4.44	0.00	0.00	0.00
HIVESUN VSHL TOTALS: HIVESUN VSHJ TOTALS:	a.va -790a.00	-7900.00 -7900.00		0.00 D.00	0.00	0.00 D.00
	-1940.40	-1960.00	1.11	D.QD	0.00	D.0D
COST OF GOODS SILD TUTALS	-7900.00	- 20103.07	•.D•	D.OD	0.00	D.QD
T OF LIGOR						
HIVESUN ASLA TOTALS:	0.00	- 250 . 00	2500.00	000.00	0.00	-6.90
IIIVISUT ASAD TOTALS:	0.00	- 590 . 90	5000.00		0.00	-8.38
III VI SON ASTW TOTALS:	0.00	-165.65	1666.50	3999.0D	0.00	-D.90
HIVESON ASUS TOTALS: HIVESON WSBL TOTALS:	0.00	- 50D. CD	5000.00	10000.00	0.00	-1.76
IIIVISUU VSEJ TUTALS:	04.0 04.040-	- 580.00 - 590.00	5808.88 5909.99	10040.00 3040.00	0.00 -10.90	-1.90 -1.15
COST OF LINGOR TOTALS	- 640 . 0 0	-2416.60	24166.59	43333.00	-2.06	-5.07
REMAINS REPORTSES INVESTIGATION ASSAULTION ASSAULTS	-525.00	-1464.00		0.00	0.00	0.00
IIVISUN ASAD TUTALS:	-1050.00	-2898.00		0.00	0.00	0.00
III VISIN ASIV TOTALS:	-349.97	-2995.91	0.00	D.QD	0.00	D.QD
IIIVISUN ASUN TOTALS:	-349.37	-2000.00	·.··	D.QD	0.00	D.QD
	-1050.00	-2868.00	4.44	0.00	0.00	0.00
HILLSON WELL TOTALS:						

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						
140812003							
D EXPENSE	AND REVENUE REPORT 10/03	FOR Entire Corporati	lon				
RCT I	SCRIPTION	Luckant Month	YTT	BUILDER	YIT BUILDT	RAVINE.	מו אי עבור
A REAL PROPERTY AND A REAL							
HIVESIDN BR	ж						
20100000	BOSIDESS INCOME	\$Q0Q.0Q	12600.00	4000.00	8000.00	125.00	15 <b>5</b> .
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	<b>DITUD</b> S	0.00	0.00	0.00	0.00	0.00	σ.
HIVESON ASC		5040.40	12590.00	4000.00	8040.00	323.00	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.
20820000	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 ASH		10000.00	25000.00	00D0.00	16000.00	125.00	104.
III VI SIDN ASI							
30100000	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.
30900000 IIIVISIN ASIV	REFUEDS	0.00 0.8886	D.OD 6932.50	0.00 2666.40	D.OD 5992.60	0.00 125.00	D. 20.
		3333.00	6392.30	2000.20	3392.00	163.00	20.
30100000	BUSINBSS INCOM	10000.00	25000.00	8000.00	16000.00	125.00	156.
30150000	BUILDESS INCLUI	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.
DIVISOR DSUB		10000.00	25060.00	1000.00	1.6 000 . 0 0	123.00	55.
III VI SIDN VE							
20100000	BOSINESS INCOMI	10000.00	Z5000.00	8000.00	16000.00	1Z5.00	155.
20180000	BREICHT INCOME	0.00	0.00	0.00	0.00	0.00	D.
20950000	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	D.
III VII SUR USII	TOTALS:	10000.00	20000.00	<b>TODU.UU</b>	16040.00	325.00	40.
III VI SIDN WES	53						
30100000	HUSINESS INCOME	15000.00	LSDOD.OD	0000.00	GDOD.GD	197.50	197.
	PREIGHT INCOME	0.00	D.OD	0.00	D.OD	0.00	D.
20150000	SALE DISCOUNT	0.00	D.OD	0.00	D.OD	0.00	D.,

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		RICT 30:1	
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		
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.CUSTOMERS	5666.10	
11200000	ACCNT/RECVSOTHERS	0.00	
11200000	A/RBAD DIETS RESERV	0.00	
12 100000	STOCK INVENTORY	499.95	
DIVISION ASIN		14007.59	
		14087.59	
DIVISION ASVN			
10100000	CASH ON HAND	4992.00	
1020000	BANK 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	PTRIALBALANCE.FRX Print Preview IN I IIIII		
10/08/2003 TRIAL BALANCE ACCT	2 10/03 Description	ТҮРЕ	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.

)/08/200	3	CHEOLOGI	SS IV ENTIRE CORPORATION	10/03					9808 90:1 Corpegge.984
T	MTE	CHECK	DESCRIPTION	COMPANY	1943	<b>TED/187</b>	REC	DEBUT MIT	CREDIT MET
IVISION	ASCH)								
COURT 10	10000	CASH OF THE	D						
ARTINO B		FOR TTO						D. 00	
		TOR THE DOUTH						0.D0	
0001 10			STARTING FURINESS					2500.00	0.00
0012 10			FRY'S					0.D0	<b>4</b> . 00
DING BAI DING BAI		R THE COLLE R TTD						2496.00 2496.00	0.DQ 0.DQ
		BARK CHINGS	NG 2000001						
ARTING B								0.00	
ARTING B 0001 10		FOR THE BOUTH	STARTING BUSINESS					0.00 5000.00	D. 00
0007 10			75 PRODUCTS					6000.00	0.00 0.00
0008 10			7 60782					0.00	326.00
0009 10			R TUBRES					0.00 0.00	500.00
0010 10			A FEXALLER					0.00 0.00	25.00
10 LL 110			B BERGAL					0.00	25.00 350.00
10 0T3 T0 10 0TT T0			NTE INTEREST					12.60	0.00
		в тне соотн	410 10100081						0.00 0.00
								9387.50 9387.50	0.00 0.00
		10017/02018	CUSTORIES						
LEIING B								D. dO	
								0.D0	P 40
0002 10			STARTING BUSINESS					2000.D0	D. do
0006 10			TE PRODUCTS					7500.D0	D. do
0.007 10			75 FRODUCTS					0.00	6000.00
DING BAI DING BAI		R THE BEETH						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.

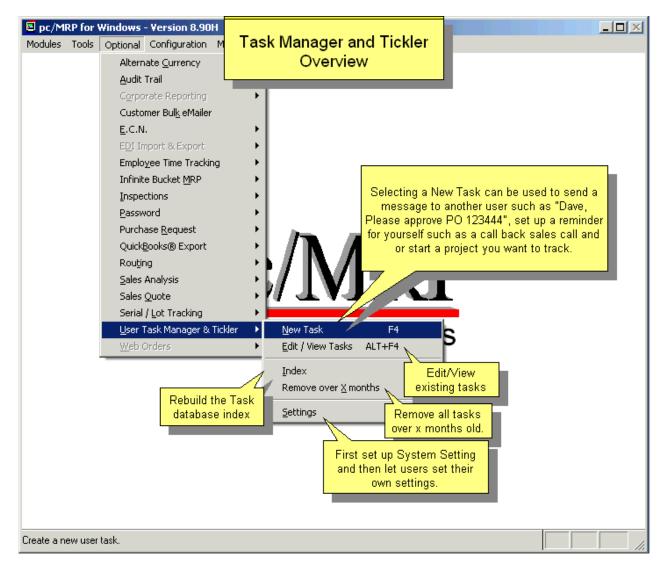
# **Corporate Transaction Report**

OKESIVE TECHI 1/01/2003 Seepal Lebeer All	OLOGIES IN TRANSACTIONERTIRE CORPORATION 10	1/03		жа : Свер	ED : 1. HT RAM, Y RK
RANS# 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	
		11100000	ACCHT/BECVB.COSTIMERS	2000.00	
		15100000	FREPAID EXPENSES	500.00	0.00
		25100000	STARTING CAPITAL	0.00	
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	
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 CHECKING 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 BEREFAL	61000000	INSURANCE. GENERAL.	350.00	0.00
		10200000	BANK CHECKING ACCOUNT	0.00	
0012 10/08/09	1967 1 S	61400000	OFFICE SUPPLIES	4.00	0.00
		10100000	CASH OF HAND	0.00	4.00
0013 10/08/03	W7B INTEREST	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.

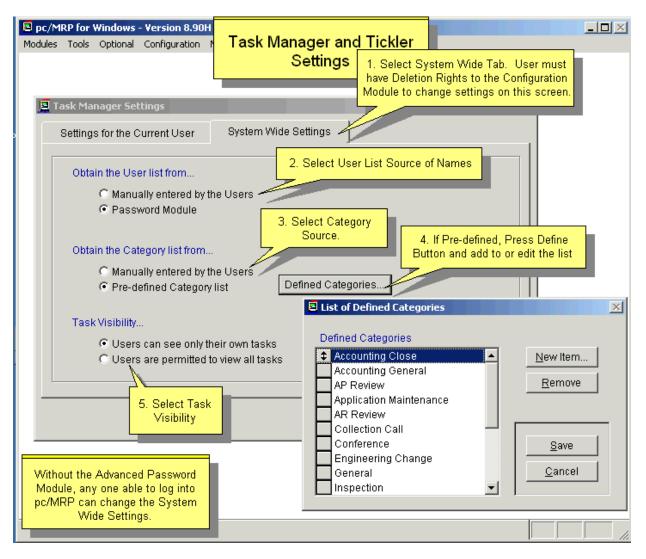
To activate this module: Call Software Arts (408-226-7321) to obtain your activation code number. Select Configuration, Module Activation, and then User Task Manager & Tickler Module from the menu. Press the "Activate" button and enter your activation code number.

# Example

Companies that own the Advanced Password Module can send requests for PO Approval.

Pc/MRP for Windows - Version 8.95U Modules Tools Optional Configuration M	Send a msg, such as a request to Approve a PO	_ <b>_</b> _X
Task Properties Task Ron, Please approv Reminder 11/17/2015 04:16:09 Properties Comments	2. Check Reminder. If you want the msg to the user to pop up right away, set the Task Manager Settings to pop up within 1 minute. re PO 123777 Priority N Category Sa	Iormal  A. Select Working Vorking
Properties Created by DOUG Created Date 11/17/201 Assigned to DOUG Due Date DOUG KIM KINGA RICHARD	5 03:16:05 PM Completed by Completed Date Completion Stage	s er_
pc/MRP for Windows - Version 8.	eceiving a request to Approve	
Modules Tools Optional Configuratic	The person receiving will see the follow	the message
Task Reminder         Task Remin         Task       Ron, Please approx         Comments	ove PO 123773	
Reschedule the Remind Turn off the Reminder Turn off the Reminder Remind me in 1 Minute Remind me in 10 Minute Remind me in 15 Minute Remind me in 15 Minute		Details Implete Once the Task is Complete, Press the Complete Button age to pop of minutes, then Press

#### System Wide Settings

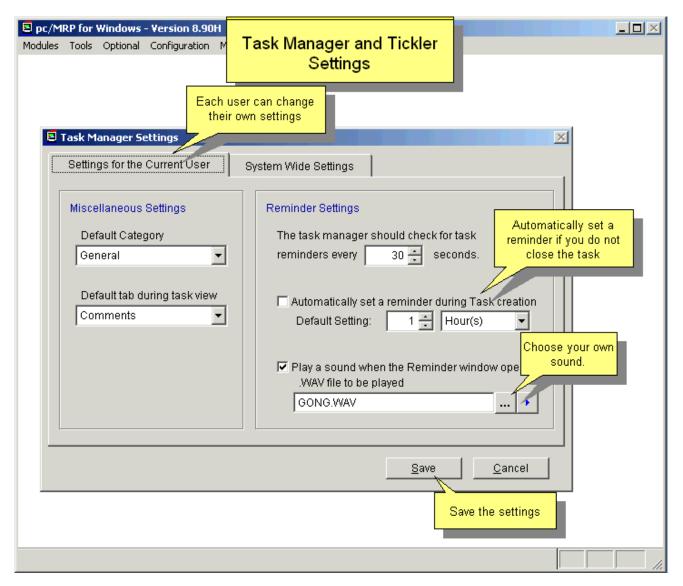


**Obtain the User list from...** Choose 'Manually entered by the Users' if you do not have the Advanced Password Module or wish the user to enter a name known not to be in the password module.

**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

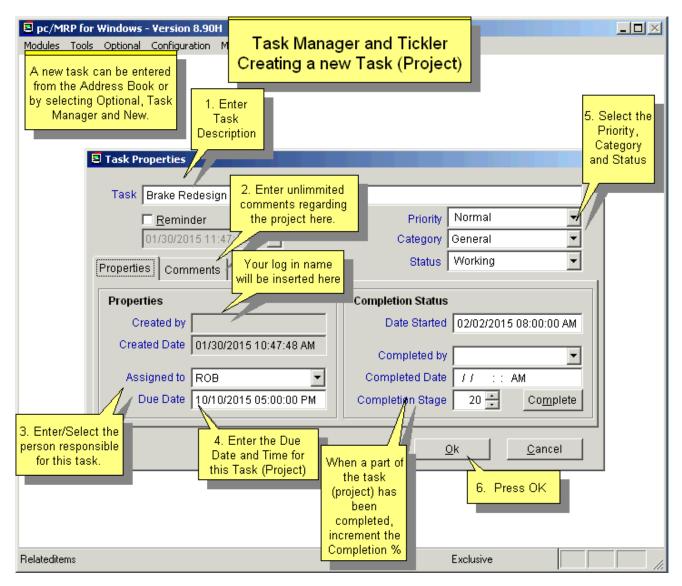
# Step 1.

When selecting 'New Task' from the menu, you will be presented with the following screen.

Dec/MRP for Wind Modules Tools Opti	onal Configuratic <mark>TaskMa</mark>	anager and Tickler ew Reminder (Tickler)
Addr Id BBC001 Compan	Company N 2. Set the Date RRC MANUF and Time the msg Task Prope is to pop up Task Cont. at BBC MANUFACT	Addr Type Status Balance and Status (Working)
Addres		Priority Normal  Category Sales Follow-up
Cit State / Zi Count Countr Telephon Faxn Comme	Sun Mon Tue Wed Thu           Call Jim         Sun Mon Tue Wed Thu           28         29         30         31         1           4         5         6         7         8           11         12         13         14         15           18         19         20         21         22           25         26         27         28         29           1         2         3         4         5	Status     Working       Fri     Sat       2     3       9     10       16     17       23     24       30     31       6     7
	1. From the Ticker Butt Optional, U Ticker a	e Address, click on the on. You can also go to Jser Task Manager and nd select New Task 5. Press OK
Relateditems		Record: None Exclusive

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

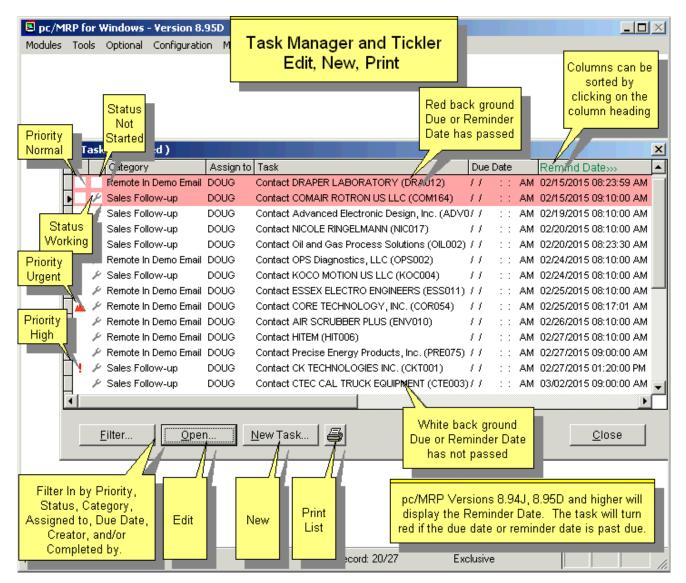


More detailed information is available for entry of the Properties tab. 'Created by' and 'Created Date' are not modifiable. 'Assigned to' can be selected from the drop-down list or, if the Administrator allowed, you can enter a name yourself just like the Category field.

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	8.10A (User: R)		
Modules Tools Optional Configuration	n Manual Developer Help		
📱 Tasks (Filtered)			×
Category Assig	n to Task	Due Date >>>	<b>A</b>
General ROB	Staff meeting	10/23/2005 04:00:0	00 PM
,	Meet w/ Bob & Joyce @ new b	rochure 10/25/2005 05:00:	00 PM 
<u>F</u> ilter <u>O</u> pe I Ta	isk Filter Criteria		
	Priority Show All	Due Date Show All	-
Pressing the 'Clear Filters' button will	Status Show All Uncompleted -	Creator Show All	•
	Category Show All	Completed by Show All	-
	igned to Show All		
	Clear <u>F</u> ilters	<u>Qk</u> <u>C</u> and	cel
		Pressing the 'Ok' bu return you to a new	ly filtered
Tasktable	Record: 1/2	Excle Tasks' scree	n.

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)		de de la coma de la com
Modules Tools Optional Configuration Manual	Developer Help		
Task Properties			
	Some data is automatically filled by the system and the originally Assigned to field defaults to the user entering the data.	General Complete Other Complete Comple	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.
Created Date 10/23/2005 11:17:54 AM Assigned to R Due Date 10/25/2005 05:00:00 PM	Completed b Completed Date Completion Stage	y R 👤	
0-100% or 1-10, et This can also be the user's default so most fields are self explanatory.			
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.

E pc/MRP for Window			(® - E				
Modules Tools Optional		ual Developer Help					
Category General ⊮ General	Assign to ROB R	Task Staff meeting Meet w/ Bob & Joyce @ new brochure	Due Date >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	04:00:00 PM			
All the Send	tput Range e displayed Tasks in I Output to	Sort By 1 Status 2 Assigned User 3 Due Date	s       Image: Save Setting       Image: Save Setting       Image: Optimized state       Image: Optimized state				
This is the standard report window modified for the User Task Manager and Tickler Module.							
Tasktable		Record: 1/2	Exclusive	NUM			

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.

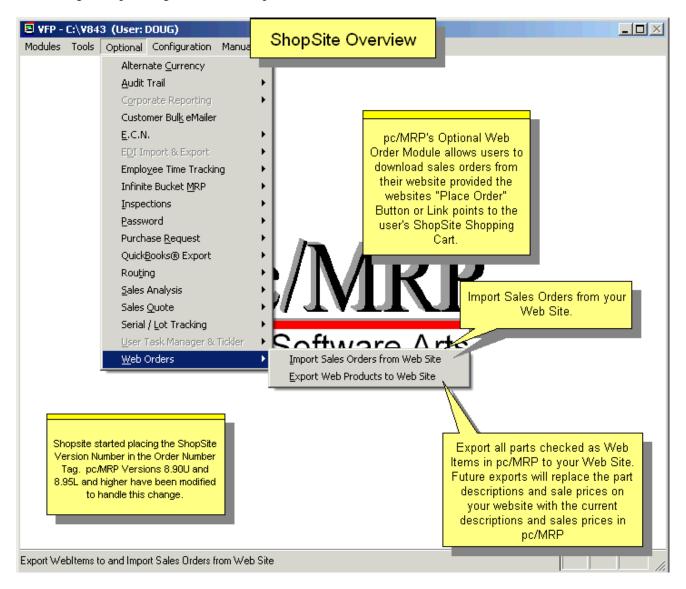
If you want to keep the last year's worth of Task & Tickler records, you would enter 12 as the age in months.

# 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.

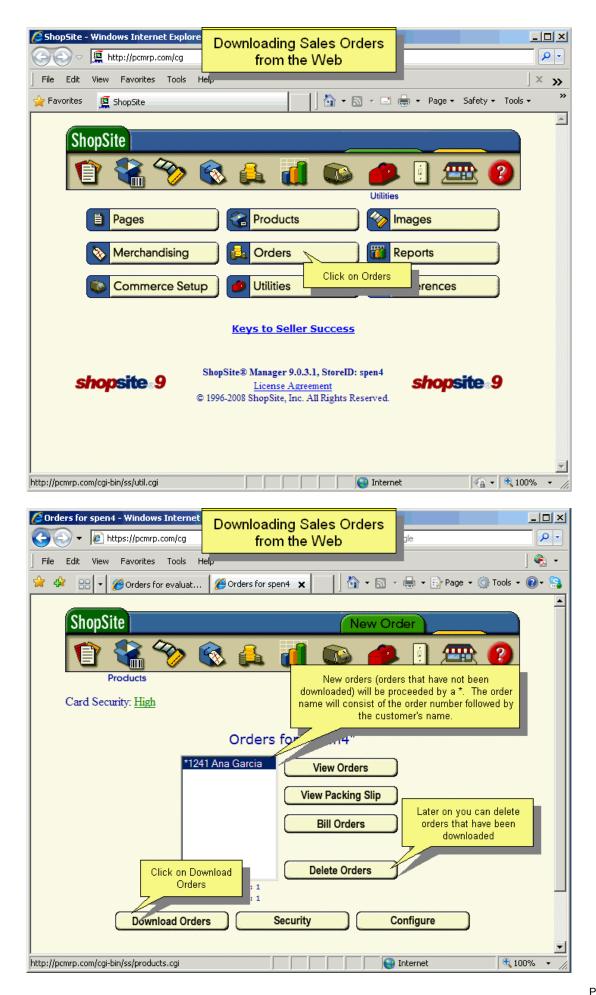


When you first integrate the two programs, use the link and password ShopSite, Inc. has provided you in an email.

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	Ń
	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.

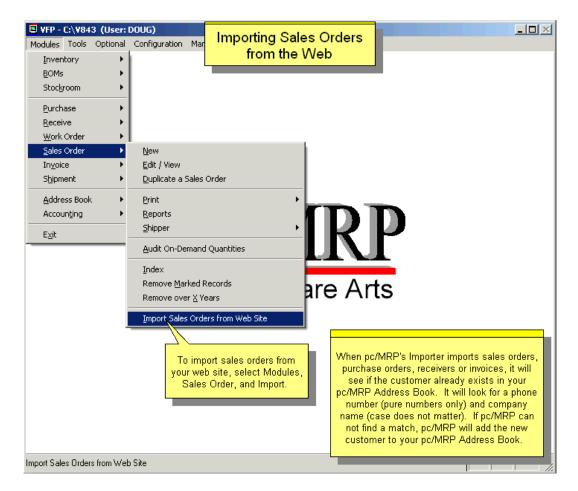
When your first online orders arrived, you will download the orders into an .XML file, and then use pc/MRP to import them into your Sales database table.



Corders Download - Windows Int	Downloading Sales Orders					
File Edit View Favorites Too	ils Help					
😭 🍄 🔠 🕶 🏀 Orders for eva	😪 🍄 🔡 🔻 🏈 Orders for evaluat 🦉 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: SSorders20090619.xml Type: XML Document From: pcmrp.com Open Save Cancel order number or date					
Open       save       Cancer         Save       Click on Save       start date         end date       end date         harm your computer. If you do not trust the source, do not open or save this file. What's the risk?       start number					
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					
Click here for information on tools such as the Stone Edge Order Manager.					
📩 Downloading from site: https://pcmrp.com/cgi-bin/ss/orderhar 🛛 📄 📄 📄 📔 🔛 🤤 Internet 🖉 🕅 🗮 100% 🝷					



pc/MRP uses the same importer engine as Configuration, Option 40 does.

VFP - C:\V843 (User: DOUG) Modules Tools Optional Configuration	Mar Importing Sales Orders from the Web	×
	pc/MRP Data Importer       Sales Order is pre-selected         pc/MRP file to receive the data       ShopSite is pre-selected         Sales Order       ShopSite is pre-selected         File type of the import source file       3. Locate the ShopSite XML File         ShopSite Sales Orders xml       ShopSite XML File         Location of the file to Import       Locate.	
	C:W843\SHOPSITE\SHOPSITE4.XML	
	ABCII Delimiter: C Tab C Other	
		1

VFP - C:\V843 (Us Aodules Tools Optic pc/MRP Setting Display Settings For	onal Configuration	Mar Importing Sales C from the Wel		
All	38 Include	AP voucher information on receiver re	pNo	
Inventory		splay the file structure for a selected D	F f1Hility1	
	🗳 pc/MRP Data In	nporter		X
Stockroom 2 Purchase Order Receiver	Sales Order	Database Structure		Import File
Sale/Work/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	SalesWork 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 tosync Clear All	SHIPPABLE TAXFREIGHT TAXDISCNT SALESSITE INTRACOMP EDIKEY REQARIDATE WEBORDERNO << Select
Send to File	If the cust Address B Address B		1. Click the Autosync	2. Click on OK

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.

pc/MRP for Wi dules Tools C Print Preview AGENO . 66/06/2013 03	Dptional Cor - SALELOG. 1	figuration	vnloading Sales ( From Web ™ ► ► 1002 ▼				_ = _ #
ISER: DOUG ALELOG.FRX ALL ENTE	Sales	Orders entered by ave a Web Order	/ hand will			DER REE	PORT
0/W0# ITEM#	2	PART NUMBER	DESCRIPT	ACCT :	SALE SMAN	QTY REQUIRED	QTY AS SMBLD
EBORDERNO							
23088 0001	/ /	000000001	ALTERNATE CURRENCY	MORO06		1.000	(
23089 0001	/ /	000000890	SUPPORT, pc/MRP 1-	NET025		1.000	I
23088 0002	/ /	100000053	SALES ANALYSIS MOD	MOROO6		1.000	(
EBORDERNO	1374				Subtotal:	3.000	
23087 0001	D M	000100101	ADDITIONAL MULTI-U	XEN002		5.000	1
					Subtotal:	5.000	
		s Orders downloa will have a Web			Total:	8.000	
Preview							

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"
Invoice [Edit Mode]           Invoice # 123089         Invoice           SO# 123087         Due	Date 06/06/2013 Date 06/13/2013	Document Cur card and deposite the BASE CURRE
Phone # <mark>contain the Shop</mark> e-Mail ke	saction Number in ent Number Field. N HISHAMUDDIN 7, RIAN SELAT KLANG UT 42000 rder and the invoice will Site Web Order Number Account # XEN	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	Tax % Freight Disc % Seria	Model Number
5.000     125.00       Comments     Displayed       BASI       Delete     Logbook	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.

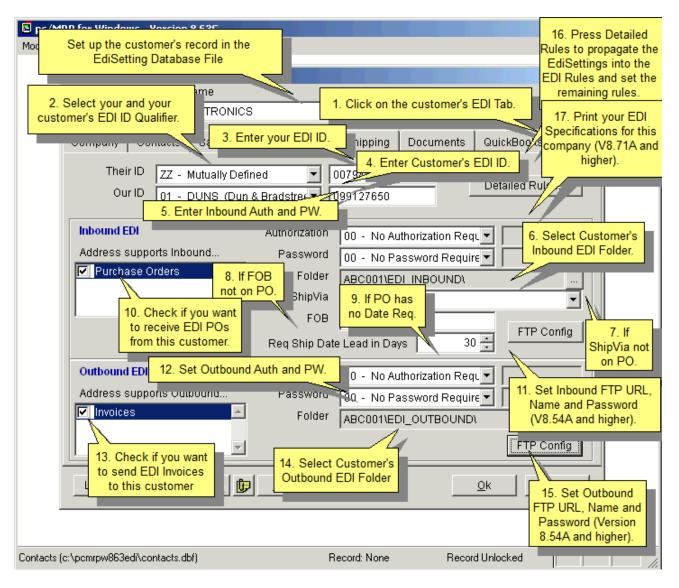
The EDI Module allows users to import Customer EDI Purchase Orders. pc/MRP will automatically create pc/MRP Sales Orders and if requested send an EDI Acknowledgement. Once the Invoice(s) have been created, pc/MRP will allow users to automatically create EDI Invoices. However, it is up to the user to 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.

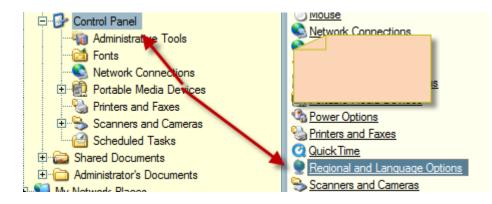
# **Viewing Security / User Rights**

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	1
	Time:	4:30 PM	1
	Short date:	11/11/2008	1
	Long date:	Tuesday, November 11, 2008	1
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	
✓ 51949 (EUC-Korean) ✓ 52936 (HZ-GB2312 Simplified Chinese)	
S4936 (GB18030 Simplified Chinese)	
✓ 57002 (ISCII Devanagari)	-
57003 (ISCII Bengali)	<u> </u>
Default user account settings Apply all settings to the current user account and to the <u>d</u> efault user profile	
OK Cancel App	
OK Cancel App	y

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 Insufficient hard disk space**

Windows 95 requires a minimum of at least 20 MB of hard disk space be available for temporary files, print buffering and RAM memory overflow (swap file). 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.

#### **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.

Older models of HP printers now came with a printer status programs that can cause problems. Disable the printer status program.

#### 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.
- 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.
- The 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". 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.
- See: 17.4.2091 if you have reason to believe that the database is corrupted.
- 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, repair or to a restore point (very risky).
- If the error message is ccard.dbf does not exist, you are using a different PDF driver. Open the sales or invoice form and change the initial value of rcCardNo to "".

# 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.

# 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).

# 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 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.

# 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.

# 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.
- I you are running version 8.90 and printing an invoice causes this error: upgrade to 8.90AK or higher.

# 17.4.30 Position is off screen (error 30)

- 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.

# **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.
- 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:

- o 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, requires 128 MB.
- 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** 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.

# 17.4.55 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.

# 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 lock on the file. Call Software Arts, Inc.

# 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)

- Somebody else is using the file. Wait until they are finished.
- File was left open when a user shut off power to their PC. Get everyone off the network and reboot the server.
- You have two copies of pc/MRP open on your PC. Quit one of the copies of pc/MRP.

# 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 pcmrpw 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.
- 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.

# 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

- 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.

- 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). <u>This is the second preferred method to fix this problem.</u>
- 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 will fill up fast so delete it once it has served its purpose.

.

- If tablerandomize() and the Data Recovery Utility don't help, a person with programming experience can try the following: Using Windows Explorer, copy in a backup copy of the .DBF, .CDX, .FPT files with a backup name. Then delete the three real files, and reindex (in pc/MRP) to recreate an empty file. Finally at the command line enter <u se *realfilename*>, <a pend from *bufilename*>.
- 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.

# 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.
- 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 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() 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).
- On one occasion rebooting the server helped.

# 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.

# 17.4.1156 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 change the width of the label to 4".

# 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. Registry entries for pc/MRP to create an instance of MS Outlook to attach a document to an email are not valid. Contact Software Arts.
- 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 you are trying to email a PDF file: MS Outlook must be open on some computers or closed on other computers. Test to see which setting works.
- 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.

# 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.

# 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.

# 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.dbt.

# 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.

# 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)

• 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.

# 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.

# 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.

# 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. "8.90B".

# 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.
- 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

$\mathbf{x}$	Your temporary file drive (C:) has only 48.05 MB Remaining.
Ŭ	To prevent possible corruption of pc/MRP's data integrity, pc/MRP is not permitted to operate without at least 50 MB of disk space available on this drive.
	You or your system administrator MUST increase the amount of available space on this drive before pc/MRP will resume operation.
	QK
	nessage will refer to the user's computer if pc/MRP runs in a Invironment. If in a Terminal Server environment, this refers to

# 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.

# 17.5.44 Windows Exception Code Errors

Possible solutions:

**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).
C0000094 RAM is corrupt. Reboot PC (may be caused by an HP printer writing to an area of RAM it shouldn't).
80000002 when editing BOMs. In one case running the Data Recovery Utility on BOMs helped.

# 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 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.

# 17.5.61 Windows can not access pcmrpw.exe

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.

# **17.6 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.
- 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 queues 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.

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.

# **17.7 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.

## 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" 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.
- Delete any pcMRP Internal Printer listed in the Control Panel's Printers & Faxes directory.
- Re-start pc/MRP and the printer driver will re-install.
- 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 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 Program Error – 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.)

# 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).

#### 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.

#### 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 sever, 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.

# **17.8 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.

#### 17.8.2 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.

#### 17.8.3 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.

#### 17.8.4 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.

#### 17.8.5 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.

# 17.8.6 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.

# 17.8.7 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.

#### 17.8.8 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.

#### 17.8.9 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).

## 17.8.10 Pay bills option does not display any bills to be paid.

The receiver index is broken, re-index the receiver file.

# 17.8.11 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.

#### 17.8.12 Cannot reprint checks.

Option 13 in the Settings and Utilities menu is set to off.

# **17.8.13** 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.

#### 17.8.14 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.

# 17.8.15 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".

#### 17.8.16 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.

#### 17.8.17 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.

#### 17.8.18 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.

# 17.8.19 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.

#### 17.8.20 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.

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. 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.

## 17.8.21 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 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.

#### 17.8.22 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.

# 17.10 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.

# **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.
- 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

#### 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 a certain action in pc/MRP (e.g. entering a new sales order or entering an accounting transaction) is significantly slower than others, check you document numbers.

If you have invalid (less than 6 digits) document numbers like 00 or blank, call Software Arts. The Support Technician will change those document numbers to valid numbers or will delete those records if they are bad entries (like an entirely blank record).

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 for help to find a better numbering system.

**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.

# **17.11 HTML and PDF 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, 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.
- 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.
- 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.

#### 17.11.3 Email as PDF - Problems

- If you wish to email PDF documents directly, Microsoft Outlook 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**".
- 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).

#### 17.11.4 Unknown Member "recipients" (error 1943)

Outlook must or must not 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). See the previous section. If you are using MS Terminal Server, you must log into the terminal Server and start your copy of MS Outlook.

#### 17.11.5 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. See Section 17.11.2 above.

#### 17.11.6 Error code -30 means that the printer has timed out before printing starts.

- Un-install the pc/MRP print driver. Re-start pc/MRP to re-install the pc/MRP print driver (re-stores cdintf.dll). Reboot the work station. *Exclude the AMYUNI print driver from being updated by the Windows Update or Auto-update process by switching from auto-update to allowing you to select what to update (Control Panel, Program Updates)..*
- Exclude the workstation and server virus checkers from scanning the pcmrpw directory.
- If you are using MS Terminal Server, log into MS Terminal Server from your computer, and remove the old pc/MRP printer driver. Now when you start pc/MRP as Administrator, you will force pc/MRP to reinstall the new print driver in your instance of MS Terminal Server.

#### 17.11.7 Email as a PDF or HTML file is not listed in the "Send Output to:" dropdown list.

Go to pc/MRP's command line and enter "msg(chkserver("Outlook.Application")).

- If the value returned is ".F.", please inform your IT department or person that Outlook is not configured as an application server and needs to be, in order for pc/MRP to attach a PDF or HTML file.
- If the value returned is ".T.", then call Software Arts, Inc. for further help.

#### 17.11.8 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.

#### 17.11.9 PDF is created but does not display.

Eventually you get an "Adobe Acrobat failed to connect to a DDE server" error message. If 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.

#### 17.11.10 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. You might need to reboot the computer.

## 17.11.11 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.

## 17.11.12 File Links cannot open up a PFD file (error 31)

You might need to reinstall Acrobat Reader.

**17.11.13 You cannot open a PDF file by right clicking on it** Remove and reinstall Acrobat Reader.

# 17.11.12 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.

# **17.12 Credit Card Connectivity Issues**

# 17.12.1 Credit card processing software can't connect to synapsegateway.net.

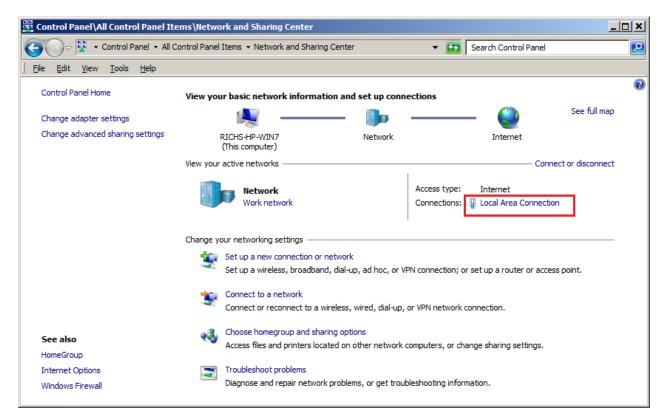
- Disable the computer's firewall. If that works, configure the firewall to allow the connection.
- Problem: The credit card processing software can't connect to synapsegateway.net. Message: "There was a disruption while communicating with the credit card processor. The credit card information was NOT 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 Connection Status				
	General			
	Connection			
	IPv4 Connectiv	/ity:	Internet	
	IPv6 Connectiv		No Internet access	
	Media State:		Enabled	
	Duration:		3 days 07:29:36	
	Speed:		100.0 Mbps	
	D <u>e</u> tails			
		-		
	Activity			.
		Sent —	Received	
	Bytes:	845,695,234	6,107,121,065	
	Properties	😗 Disable	Diagnose	
			<u>C</u> lose	

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:						
Microsoft Network Monitor 3 Driver     Ocs Packet Scheduler     Ocs Packet Scheduler     Ocs Pitter Sharing for Microsoft     Ocs Protocol Version 6 (TCP/IP)     Ocs Packet Protocol Version 6 (TCP/IP)     Ocs Packet Protocol Version 4 (TCP/IP)     Ocs Packet Protocol Version 4 (TCP/IP)     Ocs Packet Protocol Version 4 (TCP/IP)						
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 addresses:					
Preferred DNS server:	8.8.8.8				
Alternate DNS server:	8.8.8.8				
Validate settings upon exit Advanced					
	ОК Са	incel			