

This Manual is available for download at:

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

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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/MR	P for	Windows	- Version 8.3	BOB (Use	er: RICHAF	RD)
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pc/MRP is a fully integrated MRP/Accounting program for Windows. pc/MRP comes complete with eleven integrated modules: Address book, Inventory, Purchasing, Receiving, Sales Order, Work Order, Invoicing, Shipments, Bills of Materials, Stock Room, 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 eleven 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 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 95, 98, 2000, ME, and XP.

pc/MRP's Large Business and Multi-user Versions can track up to 1 billion part numbers. Please see the 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 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, 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 part numbers. Users can also print inventory reports, track inventory movement, take physical inventories, print out labels, roll up assembly costs,

and update selling prices automatically. Advanced features include digital imaging, price quantity breaks, 6 alternate part numbers, 3 alternate vendors, 9 alternate manufacturers, and model numbers per 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, digital images, alternate part numbers, routing sheets, and reference designator information can be displayed at a touch of a button while scrolling through a BOM.

# 1.2.3 Stock Room Module

pc/MRP's Stock Room 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(s) is incremented. The Stock Room Report Module provides job cost and lot tracing data. The Stock Room 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 (requires FAX/modem card). 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 with pc/MRP's optional Infinite Bucket MRP Module

### 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.

### 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.

### 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 print out an invoice and decrement the on-hand quantity in inventory. If it is an 'order entry' order (to be delivered later), pc/MRP will print out 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.

### 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 receivables 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 invoice can contain up to 99 line items. Each line item can be taxable or non-taxable and have its own due date.

### 1.2.9 Shipment Module

pc/MRP's new shipping module integrates pc/MRP with UPS's OnLine WorldShip 8.0 software. Users will no longer have to re-enter the customer addressees into UPS. Users can also select 'BOL' from the Carrier Type dropdown list and create a Bill of Lading shipping document.

# 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. Invoice, Receiver, 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.

# 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 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. Once again, it is required that you obtain the appropriate configuration codes to change the 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 fifteen optional modules that you can use to enhance the look and 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 Audit Trail Option

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. <u>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.</u> A flexible search feature allows retrieval of the recorded change based upon a variety of criteria.

# 1.4.2 ECN Option

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 which POs with part numbers that are affected by ECNs issued in the last 30 days.

### 1.4.3 Advanced Password Option

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

### 1.4.4 Purchase Request/Quote Option

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

### 1.4.5 Sales Analysis Option

Sales Analysis 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 (DOS version only). 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.

### 1.4.6 Sales Quote Module Option

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

### 1.4.7 Serial/Lot Tracking Option

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).

### 1.4.8 Infinite Bucket/MSP Module

pc/MRP's advanced MRP option 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. The MRP reports generate action items for purchases, issues to be made, makes, sales, buys, and labor actions.

### 1.4.9 Alternate Currency Option

The Alternate Currency option allows the end user to enter several different currency types and their related multiplier into pc/MRP. The user would then be able to select the desired currency for Purchase Orders, Sales Orders, and Invoices.

### 1.4.10 Routing Module

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.

# 1.4.11 Employee Time Tracking

The 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.

### 1.4.12 Inspection Module

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

### 1.4.13 Customer Bulk E-mailer

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).

### 1.4.14 QuickBooks Export

This optional module allows users routinely export AP, AR, inventory, and address data out of pc/MRP and import into QuickBooks.

### 1.4.15 Barcode Module

This optional module contains barcode fonts. These fonts are used with the report generator to add a bar code to labels and reports.

### 1.4.16 Corporate Enterprise Reporting Module Overview

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.

### 1.4.17 User Task Manager & Tickler Module Overview

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.

# 1.4.18 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.

# 2 Installing pcMRP

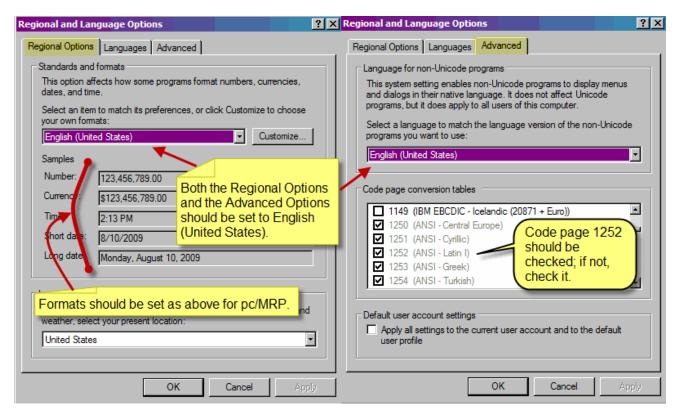
### 2.1 Hardware Requirements

500 Megs of computer memory and 500 megs of disk space or higher for Windows 2000, XP, Vista, and Windows 7.

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.

### 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)

In a single-user environment, and installing on a Vista or higher computer, do not install pc/MRP in the Windows 'Program Files' directory. Instead, allow it to install itself in it's 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 a single-user install: <u>http://www.pcmrp.com/mrp101/installpcmrpclickonlink.htm</u> Slideshow for a multi-user install: <u>http://www.pcmrp.com/mrp101/installmulticlickonlink.htm</u>

To install pc/MRP place the pc/MRP CD into your CD drive or locate the downloaded file.

If you are using the CD, wait a few seconds and the autorun should start. From the installation menu press Install. If the autorun does not start, select my computer and double click on your CD drive. Once the installation menu is on your screen press Install

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. Once the installation is complete, pc/MRP can be accessed by either your computer's Start and Programs menu, or the shortcut created on your desktop.

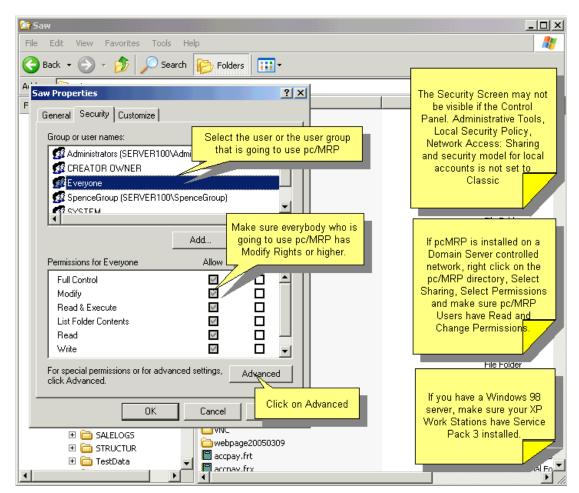
The first time you start pc/MRP, pc/MRP will require that you define a password for future access to the program and then to enter your company's name, address, phone and FAX number.

# If you have installed a single user version of pc/MRP you are finished with the installation and do not need to follow the instructions listed below.

For the server you should:

- 1. Double click on My Computer
- 2. Right click on the server's folder that contains the pcmrp files.
- 3. Select **Properties** (select **Sharing and Security** on a workstation)
- 4. Select the **Security** tab
- 5. Select the **Everyone** group
- 6. Provide all pc/MRP users (or the group) with a minimum of 'Modify' rights or higher

Please refer to screenshot below:



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 pcmrp).
- 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 70 MB of free space prior to installing pc/MRP. The pcmrpw directory could grow to 500 MB 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 840Q)
- If you are attempting to install pc/MRP from the CD and the CD fails to work. Try to install pc/MRP on a different computer to see if it is a bad CD ROM drive. If it fails on a second computer, call Software Arts (408-226-7321) for a replacement CD.
- 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 17.7.47

### 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 in Step 7 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 to a CD or 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 pcMRP 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 3.1.3 Settings and Utilities	Discusses what the Bicycle Shop is and how to utilize the tutorial. 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 Bkt 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. (MPS)
3.1.13 Purchasing	Ordering from your vendors.
Module	
3.1.14 Receiving Module	Vendors fulfilling Purchase Orders and creating Accounts Payable.
3.1.15 Stock Room	Using the stockroom to convert parts to assemblies and adjust
Module	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: Standard Modules, Accounting, Utilities and Configuration, Optional Modules, and Trouble Shooting. 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 in hard copy form from Software Arts.

### 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. Since the tutorial is in HTML and uses your Internet Browser (no you are not online, the tutorial simply uses your browser) you will often be asked to refer back to pc/MRP. You should thus learn the ALT-Tab function. By pressing ALT-Tab, you

will be able to go back and forth between applications. If you have the tutorial open and pc/MRP or any other program, simply press and hold down on the ALT key, now hit the tab key once. On most Windows operating systems, this brings up a bar in the center of the screen that has all of your currently open programs. To easily go between the tutorial and pc/MRP use the ALT-Tab function.

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 Utilities and Configuration chapter covers in detail all of the custom settings available pending 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: <u>C</u>onfiguration, and <u>S</u>ettings & 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, On or 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 will accept any password and does not need a configuration code number. As you view the Settings and Utilities, simply press OK when it asks you for your configuration code number.

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

To view your current Settings and Utilities start pc/MRP and select <u>C</u>onfiguration, and then <u>S</u>ettings & Utilities. Hit <u>N</u>ext or <u>P</u>revious as desired. Hit <u>C</u>ancel to exit the Settings and Utilities.

Note: Throughout using pc/MRP you will 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. (Do a right click on the Start Button and select 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. For pc/MRP Versions prior to version 7.90, use option 20 to change the color of the data entry screens to an ugly blue to alert users they are in a practice 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 entered into sales orders, purchase orders, work orders, and receivers. 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 <u>M</u>odules, <u>A</u>ddress Book, <u>and New</u>.

Note: You will find that all of the modules are setup 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 <u>M</u>odules, <u>A</u>ddress Book, <u>N</u>ew, you will be prompted to enter the company name that you wish to add to the address book. Please enter "ABC TIRE COMPANY."

Enter company name or last name
☐ Import Address information from an existing address.
<u>O</u> K <u>C</u> ancel

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**, this will automatically be populated by the date in your computer.

Address Book Edit Mode						
Addr Id	Company Name	Addr Type Status Balance				
ABC001	ABC TIRE COMPANY	CUS 🕶 APP 💌 945.00				
Compan	Company Sales Contact Info Billing \ Shipping Invoices Receivers					
Attention	ATTN: JOE SMITH	Contact JOE SMITH				
Address	111 SOUTH MAIN	Title VP PURCHASING				
City	BIG SKY State TN	Salutation MR.				
Zip	88888 County	E_mail joesmith@abctire.com				
Country	USA	C-Card Exp /				
Telephone	333-444-5555 Ext 123	Serial #				
Faxno	333-444-5556	Start Date 10/26/1999				
Comment	ts:					
First started purchasing from us in 1967						
La <u>b</u> els	La <u>b</u> els Logbook Delete Ok Cancel					

Notice that several tabs exist to allow users to enter additional data. The additional tabs consist of: Sales Contact Information, additional billing and shipping addresses, and Invoice and Receiver history. Salesperson information, the billing address, and the shipping address will automatically be populated in sales orders and invoices. Select the **Billing/Shipping** tab and enter separate address information into the fields provided. We will use this address entry later to enter purchase orders and sales orders.

### **3.1.5.2** Viewing an Address

To view the address just entered select <u>Modules</u>, <u>A</u>ddress Book, and <u>E</u>dit.

Note: The EDIT function is similar throughout pc/MRP. If you wish to edit a Sales Order, select <u>M</u>odules, <u>Sales</u> Order, and <u>Edit</u>. To edit a receiver select <u>M</u>odules, <u>Receiver</u>, <u>and Edit</u>.

To edit choices you must choose " $\underline{E}$ dit" under the Action square. To simply view, select " $\underline{V}$ iew." Users can also search address information in a number of different ways. Select the gray square with the black down arrow to access the drop down menu under "Sort Order." This allows searches to be made on Account ID Number (a unique address ID number per customer created by pc/MRP), company name, company telephone number, and serial number.

📮 Address Book Database 📃 🗖 🔀						
I	ndexed Search (Fastest)	Queried Search				
Save Settin	gs Sort Or <u>d</u> er Account ID Number	No Selections				
Go <u>T</u> op	📃 🕝 Begin Scrolling <u>A</u> t: 🔽 <u>N</u> eares	at Match				
Go <u>B</u> ottor	n Searc <u>h</u>					
ID CODE	COMPANY NAME	ATTN:				
ABC001	ABC TIRE COMPANY	ATTN: JOE				
Action	/iew Edit	<u>O</u> k <u>C</u> ancel				

Note: This scroll selection and actual scroll screens are similar throughout pc/MRP. Sales Orders, Work Orders, Invoices, Receivers, Purchase Orders, Stockroom Transactions, and the BOM engine all utilize this same screen. (If you ever edit something and the changes are not saved, you undoubtedly had the View checked in the Action Square.)

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

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.

### 3.1.5.3 Editing an Address

To edit an address, with the address entry still open from above, edit the Status drop down menu to CUS. (Similar to making new entries the edit feature is the same throughout pc/MRP. To edit Receivers simply select, Modules, Receive, and Edit. To edit Inventory simply select Modules, Inventory, and Edit)

Press OK. This saves the changes made.

If the OK button is not highlighted you are not in **Edit** mode. Select Cancel and attempt to edit the address entry again. This time, with the address scroll screen present select the <u>E</u>dit radio button in the Action square. When you are done editing, select OK.

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 selected view rather than edit in the "Action Square", or you selected cancel after making the changes. If the changes are there, congratulations, you have successfully edited another 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. (Modules, Address Book, New...enter the new company.)

To remove this entry "Bad Customer" from the address book selects 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 select the <u>**D**</u>elete button from the row of buttons on the bottom of the screen and then OK.

Finally, to delete an address or anything within pc/MRP you must take two steps. The record must first be marked for deletion as we have done above, then, the records marked for deletion must be deleted.

To remove records marked for deletion select, <u>Modules</u>, <u>A</u>ddress Book, and Remove <u>Marked Records</u> 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 have now successfully deleted your first record.

We have just learned almost everything about the Address Book. 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. Inventory does not contain information about how the assemblies are built. This 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 15.9.5, Special Cases.

### 3.1.6.1 Entering New Parts

Similar to the Address Book, when an end-user wants to enter a new part, simply select: <u>M</u>odules, <u>I</u>nventory, and <u>N</u>ew. 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.

Inventory (Edit Mode)					
🔦 Part# 000000001	Type Part	- Revision	Inspect	ion Criteria	
Description BICYCLE TOP ASSE		= 			
Quantites \ Costs Vendors	Sales Prices Mfgs \	Models \ Alt Parts	Miscellaneous	QuickBooks	
Costs: Average Standard Last PO	0.0000 0.0000 0.0000 Details	Stock & I Lead Tim	ssue Unit EA ne (Days)	2	
On Order On Demand Available Estimated Usage Minimum Qty Maximum Qty Std Order Qty Order Multiple	0.000 Display & 0.000 Update 0.000 0.000 0.000 0.000 0.000	Area 1 Stores 2 TEST/MRB 3 R&D 4 DEMO 5 INCOMP 6 ENGINEER WIP	Quantity 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000	Location	
Delete         Log Book         Where Used         Ok         Cancel					

Notice that similar 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  $\underline{O}K$  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 <u>Modules</u>, <u>Inventory</u>, and <u>Edit</u>. Select the same part number we just entered. Edit this part so that the Leadtime is 2 days. Select <u>Save</u>.

Note: Did you select "EDIT" in the action square?

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 **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 \$00.2500 for quantity 1 and enter quantity 100 at \$ 00.1000. 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, number, you must select "Change Part Number" from the Inventory drop down menu. This will allow you to 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.

Below is a list of those fields that are automatically updated, and how they are updated.

### STD COST/UNIT: Standard Cost per Unit.

pc/MRP calculates the standard cost per unit using purchasing history by running the cost roll-up feature in Inventory and selecting Standard Cost. This STD COST/UNIT field is populated when you run this feature.

### AVE COST/UNIT: Average Cost per Unit.

pc/MRP calculates the average cost per unit using purchasing history by running the cost roll-up feature in Inventory and selecting Average Cost. This AVE COST/UNIT field is populated when you run this feature.

### LAST PO COST: Last Purchase Order Cost.

This field brings in the cost of the last purchase order made for this part.

### **ON ORDER:** Quantity 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:** Quantity on Demand.

This field contains the quantity on demand from open work orders and open sales orders. 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. Furthermore, this field can be updated when edits are made to sales orders and work orders by running the Audit On-Demand Quantities feature in the Sales Order Module.

### AVAILABLE: Quantity Available.

This field contains the quantity available after allocation. This field is updated by running the single bucket 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.

### **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 viewing, editing, and entering 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 edit a BOM simply select Edit from the BOM menu. To enter a new BOM simply select New from the BOM menu. Most modules when printing have the Report option. For the address book and BOM module end 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 exist. 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 : 00000001	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 00000004	DIRT TEASER TIRE	
.PART 0001 00000009	SPOKES (WHEEL SPOKES)	
.BOM 0003 00000012	TUBE ASSEMBLY	
PART 0002 00000008	NGF INTERTUBE (NEVER GOES FLAT)	
PART 0003 00000010	STEM FOR TUBE	
.PART 0004 00000013	BOLTS	
PART 0003 00000003	FRAME, BICYCLE FRAME	
PART 0005 00000005	GEAR CHANGER ASSEMBLY	
PART 0006 00000006	BANANA BICYCLE SEAT	
PART 0002 00000007	PEDALS	
PART 0004 00000011	BRAKE ASSEMBLY	
PART 0007 000000013	BOLTS	

**Bicycle BOM** 

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 deduct 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 000000009 and the BOM 000000012. The TUBE assembly contains two parts, 00000008 and 00000010.

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

# **3.1.7.1 Entering Bills of Materials**

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

Select Modules, BOM, New.

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

### Select OK

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

Add a new con	nponent to	BOM 00000012			
					Alternate Part #s
🔀 Item #	4	BOM Qty	1.0000		
Part#		Ту	pe		
Description	,				
Manufacturer					
Model #					
Unit		Ave Cost	0.0000		
		Std Cost	0.0000		Staging Bin
		Last PO Cost	0.0000		
Reference De	esignators				Delete
				<u> </u>	
					Create New Part
					Settings
					<u>0k</u>
				-	<u>C</u> ancel

Notice that the Add New component to BOM 00000012 window automatically is created. 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.

	r				
		Creating a new BOM			
		BOM Number			
		-	N		
New BOM	1 number e	xists in Inventory			×
?	BOM numb	er 000000002 already exist	ts in the Inventory table.	Do you want to F	le-use this part number?
		Yes	<u>N</u> o C	ancel	
		L	<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.

00	00000	01: B	ICYCLE TOP ASSE	MBLY (Edit Mode)	
	Item	Туре	Part Number	Part Description	Quantity 🖄
•	1	A	000000002	WHEEL	2.0000
	2	Р	000000007	PEDALS	2.0000
	3	Р	000000003	FRAME, BICYCLE FRAME	1.0000
	4	Р	000000011	BRAKE ASSEMBLY	1.0000
	5	Ρ	000000005	GEAR CHANGER ASSEMBLY	1.0000
	6	Р	000000006	BANANA BICYCLE SEAT	1.0000
	7	Р	000000013	BOLTS	10.0000
					~
С	Component Ref. Designators Miscellaneous Add Item				
	Iter	m <b>#</b> [	B	OM Qty 2.0000 Alternate Part #s	<u>E</u> dit Item
		י ד הייניי			Move to:
	Ра	irt#	000000002	Type Assembly	Sub-Assy
D	escript	tion [	WHEEL		Parent Assy
Ma	nufacti	urer [			Earent Appy
	Mod	ı el#[			Changes:
		Jnit [		re Cost 0 0000	Sa <u>v</u> e
		- III		0.0000	Revert
			Standar	rd Cost 10.0000 Staging Bin	<u></u>
			Last P	0 Cost 0.0000	
				1	<u> </u>

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 000000001. 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 exploded-costed 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. It will need to match 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 Advance Password Module.

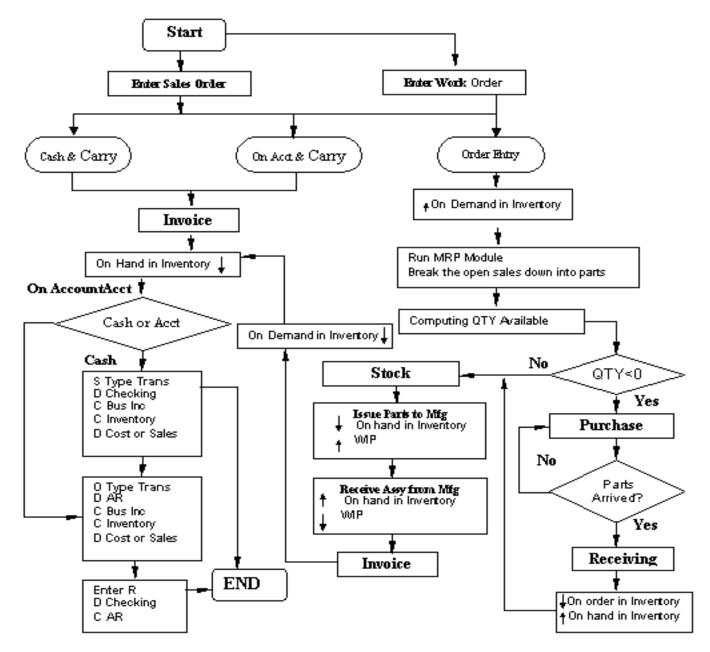
Note: There are several useful options in the BOM drop down menu. From that menu, you can delete a BOM, duplicate a BOM, change a BOM number, change the BOM description, and Audit BOMs.

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

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

### **3.1.8 Inventory Flow Model**

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



As you can see, Sales Orders and Work Orders start the entire process. These orders are based on your demand from customers or a desire to build items to stock. Items that are available for sale are directly invoiced, inventory is automatically deducted from stock, and we can begin building some A/R (Accounts Receivable). Sales Orders on order entry and Works Orders that have to be built take a different path. The 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 <u>Sales Order Module</u> and <u>Work Order Module</u> in the manual.

In short, the first method uses work orders to build to stock and sales order to build per customer order. The second method pc/MRP 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 are constantly 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.

Now, select Modules, Sale 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 Field type is essential however and deserves more attention.

The Sales Type field is essential to understand, because it 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 into assemblies command.

Order Entry sales simply places demand on the line items chosen in the sales order. These items will be due on the date as specified by the end-user in the DATE REQ field. Demand for sub-components, that are part of the sales order line item, is not created until the MRP purchasing reports are ran. Invoicing is then done once the product has been assembled and is ready to ship.

To make this clearer, select a sales type of On Account and Carry, issuing from area 1, 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 Number** 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, Make 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 "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. Notice the SC field. Do not change this field. This field abbreviates the Sales Type and Tax Code information.

With the address entered and the bicycle assembly selected press F1. 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 ESC 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 One.

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 area one 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. (The current date plus seven days.)

Note: to add additional line items we can select <u>A</u>dd Item. Of-course 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 reports these fields 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. It is important to note however, that if you frequently edit sales order item quantities that you should run the Audit sales order function. This function re-populates the on-demand quantity in inventory and is representative of the updated sales orders. Edit the' order entry' sales order for TIM to be quantity 2. Make sure the edit took.

Go back and look in inventory. Notice that the On Demand field did not change. Run the Audit On demand Feature under Sales Orders to correct this.

# 3.1.10 Work Order Module

Besides our existing sales order, we want to build two bicycles to stock. At this time, enter a Work order for two 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 receiving 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.

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. The only thing that has happened is the QTY ON DEMAND for the BICYCLE has gone up. Since we have nothing on hand to build these bicycles, we will now run our MRP purchasing reports. These reports will tell us everything we need to buy to fulfill our orders. We will run two purchasing reports, our standard MRP Single Bucket report, and then the optional Infinite Bucket MRP report. After that, we will briefly compare the two. Of-course from there, we will make purchase orders to fulfill the demand, receivers to receive the parts necessary to build, issue the builds to the stockroom, receive finished goods back into inventory, and then we will be ready to invoice.

### 3.1.11 MRP, Scheduling Production, and Purchasing

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. We will first run the standard MRP purchasing report.

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

Purchase Reports           MRP Report (All Parts Requi	red)	Sort by	
	Report Type CConsolidated		
Include Demand From: ▼ Sales Orders ▼ Work Orders	Include Demand From: I STORES I 2 TEST/MRB I 3 R&D I 4 DEMO I 5 INCOMP I 6 ENGINEER I 7 WIP	Send Report to Display  Report Type  Standard Custom	
F Print TRAC	E Calculations	<u>O</u> k <u>C</u> ancel	

Note: End 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 or send it to the Printer and press OK.

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

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

After viewing this report for a minute or two, 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  $\underline{NO}$ . 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. Further more, 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.

If you have a printer hooked up to your computer, re-run the report above and rather than selecting display, select Print Narrow. This way we will have a printed report to compare against the Infinite Bucket report. Once again, select  $\underline{NO}$  when you are prompted if you want to "Automatically create Purchase Orders".

# 3.1.12 Infinite Bucket MRP Purchasing Reports

This time we will run the more advanced MRP, the Infinite Bucket purchasing report. 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. You should have the options as depicted below.

🗧 pc/MRF	<sup>o</sup> for '	Windows	- Version 7.5	6A			_ D ×
<u>M</u> odules <u>T</u>	ools	<u>O</u> ptional	<u>Configuration</u>	Ma <u>n</u> ual			
		Alternat <u>A</u> udit T Custom <u>E</u> .C.N. Employ Infinite Inspect Passwo Purcha Quick <u>B</u> Routing <u>S</u> ales A Sales Q	e <u>C</u> urrency rail er Bul <u>k</u> eMailer ee Time Trackin <mark>Bucket <u>M</u>RP ions rd se <u>R</u>equest ooks Export nalysis</mark>	+ +	Generate Action items Display Generation Errors Print Action item reports MRP Timeline Automatically create Purch Index the Action item data		
Creates an Ac	ction it	em databa	se based on cu	rrent prog	gram data	NUM	

Select Generate Action Items. This step creates a database that we will access to query our purchasing reports. This action should be performed around once a week depending on how fast things are in your business. Select to run your MRP on both Sales Orders and Work Orders and use just inventory area 1.

Infinte Bucket MRP Generation Criteria					
Data to be considered by the MRP generation process					
Inventory Areas	Demand From         I ✓ Open Sales Orders         I ✓ Open Work Orders         I Open Quotes (Forcast)         Demand For         I Inside Labor Requirements				
	<u>Q</u> k <u>C</u> ancel				

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
☐ Initial Onhand ✓ Purchase Orders	© Dail⊻ © <u>W</u> eekly © Monthly	Report Type
I BUY Actions	C Quarterly	
✓ ISSUE Actions	Date Range	
SALE Actions	All Dates	
Make Actions	C Specified Date From: 7 /	☐ Sa <u>v</u> e Settings
LABOR Actions	To: / /	<u>O</u> k <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 parse the data. Your report should look similar to the picture below.

BBTUTUG							CTA DT	
ACTION	DRIVING SALES/WO	ITEM#	VENDOR	PART/ASSY #	DESCRIPTION	QTY	START DATE	END DATE REVIEW
DATE	07/1	7/2000						
BUY	000002	0001	SMI001	000000004	DIRT TEASER TIRE	* * * * *	07/14/2000	07/17/2000
ISSUE	000002	0001		000000004	DIRT TEASER TIRE	****	07/17/2000	07/17/2000
BUY	000002	0001	SMI001	00000008	NGF INTERTUBE (N	****	07/14/2000	07/17/2000
ISSUE	000002	0001		00000008	NGF INTERTUBE (N	****	07/17/2000	07/17/2000
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 view this page. The infinite bucket can be an invaluable tool if businesses want to plan and keep inventory (costs) to a minimum.

Once again, if you have a printer that you can print to, print this report by going through the same steps as above and sending it to the printer. If you have additional calculations that need to be performed, you can also send it to an XLS spreadsheet.

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 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.

### **3.1.13 Purchasing Module**

Entering purchase orders is the same as sales orders. This time however 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. If you were to enter the quantity first, 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 <u>F</u>inished. Now, go back to the inventory module to see what fields have changed. The QTY ON ORDER should now be 4.

Note: If purchase orders are often being edited the Audit PO function should be ran. This function automatically corrects the QTY ON ORDER in the Inventory Module.

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 <u>W</u>eekly 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 my 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.

### 3.1.14 Receiving Module

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

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

Note: pc/MRP can receive partial shipments. You can also edit receivers. However, there is not an audit function to correct edited receivers. Once a receiver is edited, end users must edit both the corresponding purchase order and inventory parts. With out editing both areas your quantities in stores will be incorrect.

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. Before convert these parts into assemblies. 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

### 3.1.15 Stockroom Module

The Stockroom module is where we turn piece parts into assemblies, or back-flush. Similar to everything in pc/MRP, when you want a new transaction simply select <u>New</u> in the module desired. In this case, select <u>M</u>odules, Stoc<u>k</u>room <u>New</u>. There are several types of transactions available. To issue sales orders and work orders to the manufacturing floor use the "<u>I</u>" type transaction. To review the rest of these transactions refer to the Stockroom Module.

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

To receive this back as a finished assembly enter the  $\underline{\mathbf{R}}$  type transaction in the stockroom. Choose the Sales Order issued and receive this Sales Order back into area 1.

Take a few minutes to review this process 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 bicycles in inventory have 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: You have the choice to issue sub-assemblies or parts only. You can also do partial issuing and then utilize the  $\underline{\mathbf{F}}$  or  $\underline{\mathbf{M}}$  stockroom transactions for makeup issues. There is also an undo feature; transaction  $\underline{\mathbf{T}}$  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 often no paper trail. To help with this you can lock-up various editing processes 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.

### **3.1.16 Invoice Module**

To enter a new invoice, select <u>Modules</u>, <u>Invoicing</u>, and <u>New</u>. 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, 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. WIP for the parts used was cleared through the Stockroom, and now inventory for the finished assemblies has decreased by the amount of the sales order. 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 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 you 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 <u>M</u>odules, Accounting, <u>GL</u> Transactions, <u>and New</u> Transaction, select <u>A</u> 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 byte). 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 <u>S</u>ave to enter this transaction. pc/MRP will ask, "Do another record?" Select <u>Y</u>es. 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  $\underline{\mathbf{Y}}$ es, take note that pc/MRP automatically increase the transaction number by 1. 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 <u>S</u>ave to enter this transaction and <u>Y</u>es 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 <u>Save to save this transaction and select No</u> 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, 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. This type of transaction is only necessary for companies using periodic accounting methods and not companies using perpetual accounting methods.

To make this final starting entry in pc/MRP, similar to above, go to  $\underline{M}$  odules, Accounting,  $\underline{G}L$  Transactions,  $\underline{N}ew$  Transaction, select  $\underline{A}$  for All types of transactions and press OK. 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** 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. This type of transaction is only necessary for companies using periodic accounting methods and not companies using perpetual accounting methods.

Once all transactions have been entered, return to the Main Accounting Menu. Print out the transactions you have just entered by selecting Accounting Reports, select General Ledger Transactions, select All Transactions (3

times), 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 and (3) adding the retained earnings (rev - exp) to the YTD earnings.

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

#### 3.1.17.1.1 General Ledger Transactions Report for Transaction Lesson

	H 1002 💽 🎶 🚔				
oftware Ar 3/09/2007 09:10 ENERAL LEDGER A				PAGE NO:1 PRTRAN.FRX	
RANS# DATE	CHECK# DESCRIPTION COMPANY	INVOICE# RELATED DOC# ACCT		DEBIT AMT	CREDIT AMT
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	STARTING 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	FREIGHT	400.00	0.00
00005 03/07/07	KMART	20100000	ACCIS 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	610 00 000	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 LEDGER	49:44 AM	SACTIONS					PRTRAN. FRX	
TRANS# DATE		DESCRIPTION	COMPANY	INVOICE# RELATED DOC#	ACCT		DEBIT AMT	CREDIT AMT
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	ACCIS 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		STARTING 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

PROFITANDLOSS. FRX			Page: 1 (Detail Rep
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
COST OF GOODS SOLD		-7900.00	-7900
COST OF LABOR		-500.00	-500
OPERATING EXPENSES		-1758.00	-1758
WRITE OFF EXPENSES		-125.00	-125
OTHER REVENUE		25.00	25
OTHER EXPENSES		0.00	0
INCOME TAXES		0.00	0
RETAINED EARNING TOTAL		4742.00	4742

## 3.1.17.3 YTD Expense and Revenue Report for Transaction Lesson

t Preview - PRYTD	.FRX						_
/09/2007 08:39	9:15 AM	Print Preview		X			
D EXPENSE AND	REVENUE REPORT 03/2007 FOR		► ►   100%	• • 6			
CCT	DESCRIPTION	Current Month	סדע	Budget	YTD Budget	%Var	YTD % Var
100000	BUSINESS INCOME	15000.00	15000.00	8000.00	8000.00	187.50	187.50
100000	OTHER INCOME.INTEREST	25.00	25.00	0.00	0.00	0.00	0.00
EVENUE TOTALS		15025.00	15025.00	8000.00	8000.00	187.81	187.81
00000	STARTING INVENTORY	6000.00	6000.00	0.00	0.00	0.00	0.00
00000	PURCHASES	3000.00	3000.00	0.00	0.00	0.00	0.00
100000	FREIGHT	400.00	400.00	0.00	0.00	0.00	0.00
100000	ENDING STOCK INVENTRY	-1500.00	-1500.00	0.00	0.00	0.00	0.00
OST OF GOODS SOLD	) TOTALS	7900.00	7900.00	0.00	0.00	0.00	0.00
.00000	WAGES	500.00	500.00	5000.00	5000.00	10.00	10.00
DST OF LABOR TOTA	лта	500.00	500.00	5000.00	5000.00	10.00	468.50
100000	ADVERTISING	50.00	50.00	0.00	0.00	0.00	0.00
00000	INSURANCE. GENERAL.	700.00	700.00	0.00	0.00	0.00	0.00
100000	OFFICE SUPPLIES	8.00	8.00	0.00	0.00	0.00	0.00
00000	RENT	1000.00	1000.00	0.00	0.00	0.00	0.00
PERATING EXPENSES	5 TOTALS	1758.00	1758.00	0.00	0.00	0.00	0.00
THER EXPENSES TOT	TALS	0.00	0.00	0.00	0.00	0.00	0.00
NCOME TAXES TOTAL	s	0.00	0.00	0.00	0.00	0.00	0.00
100000	DEPRECIATION EXPENSE	125.00	125.00	0.00	0.00	0.00	0.00
RITE OFF EXPENSES	5 TOTALS	125.00	125.00	0.00	0.00	0.00	0.00
ETAINED EARNING T	TOTALS	4742.00	4742.00				

## 3.1.17.4.1 Trial Balance Report for Transaction Lesson

Preview - GLTRIAL.FRX				
	BALANCE 03/2007 (03/01/2			
ССТ	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	ACCNTS/ 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
2130000	PAYROLL TAX.S.D.I.C.A	LC		0.00
2140000	PAYROLL TAX.S.W.T.C.A	LC		0.00
2150000	PAYROLL TAX.S.U.I.C.A	LC		0.00
2160000	PAYROLL TAX.E.T.T.CA.	LC		0.00
2900000	INCOME TAX. FEDERAL.	LC		0.00
2910000	INCOME TAX. STATE.	LC		0.00
3100000	MORTGAGES	LL		0.00
4100000	NOTES PAYABLE	LL		25000.00
5100000	STARTING CAPITAL	QN		16000.00
6100000	CAPITAL INCREASE	QN		0.00
7100000	CAPITAL DECREASE	QN	0.00	
8100000	OTHER INVESTMENT	QN		0.00
9100000	COMPANY TAXES	QN	0.00	
9900000	YTD RETAINED EARNINGS	QR		0.00
0100000	BUSINESS INCOME	RN		15000.00
0150000	FREIGHT INCOME	RN		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.

s <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration N nt Preview - GLTRIAL.FRX				_ D ×
	ALANCE 03/2007 (03/01/2	007 TO 03/31/20	07)	 
CCT	DESCRIPTION	TYPE	DEBIT	CREDIT
1100000	PURCHASES	EG	3000.00	
1200000	OUTSIDE LABOR	EG	0.00	
1300000	SALES COMMISIONS	EG	0.00	
1400000	FREIGHT	EG	400.00	
1900000	PURCHASES DISCOUNTS	EG		0.00
2100000	ENDING STOCK INVENTRY	EG		1500.00
0100000	WAGES	EL	500.00	
0150000	OVERHEAD EXPENSE	EL	0.00	
1100000	PAYROLL TAXES	EL	0.00	
1200000	WORKERS COMP.INSURNCE	EL	0.00	
1300000	EMPLOYEES BENEFITS	EL	0.00	
0100000	ADVERTISING	EN	50.00	
0200000	ACCOUNTANT/ATTORNEY	EN	0.00	
0300000	BAD DEBTS	EN	0.00	
0400000	BANK CHARGES	EN	0.00	
0500000	BOOKKEEPER	EN	0.00	
0600000	CAR AND TRUCKS	EN	0.00	
0800000	DUES & SUBSCRIPTIOONS	EN	0.00	
0900000	INSURANCE. AUTO.	EN	0.00	
1000000	INSURANCE . GENERAL.	EN	700.00	
1100000	INTEREST.	EN	0.00	
1200000	LAUNDRY AND CLEANNING	EN	0.00	
1300000	LEASING EQUIPMENT	EN	0.00	
1400000	OFFICE SUPPLIES	EN	8.00	
1500000	RENT	EN	1000.00	
1600000	REPAIRS	EN	0.00	-
1700000	SHOP SUPPLIES	EN	0.00	
1800000	PROMOT/ENTERTE INMENT.	EN	0.00	
1900000	TRAVEL	EN	0.00	
2000000	TAXES	EN	0.00	
2100000	OTHER TAXES	EN	0.00	
2200000	PERMITS AND LICENSES	EN	0.00	
2300000	TELEPHONE	EN	0.00	
2400000	TELECOMUNICATIONS	EN	0.00	
2500000	UTILITIES	EN	0.00	
3500000		EN	0.00	
	OPERATING EXPENSE			
0100000	DEPRECIATION EXPENSE	EW	125.00 0.00	
	AMORTIZATION EXPENSE	EW	0.00	25.00
0100000	OTHER INCOME.INTEREST	RO	0.00	25.00
1100000	OTHER EXP. PORTFOLIO	EO	0.00	
0100000	COMPANY TAX-FEDERAL.	ET	0.00	
0200000	COMPANY TAX. STATE	ET	0.00	

### 3.1.17.5.1 Balancce Sheet

for Windows - Version 8.20F ools Optional Configuration Manual Printer			
int Preview			
Software Arts		PAGE NO:	
03/07/2007 04:38:34 PM		PRDEBIT.	FRX Report)
		(Decali	(Report)
BALANCE SHEET 03/2007 (03/01/200	7 TO 03/31/2007)		
ASSETS			
CURRENT ASSETS			
1010000	CASH ON HAND	+	4992.0
10200000	BANK CHECKING ACCOUNT	+	19825.00
10300000 11100000	BANK SAVINGS ACCOUNT ACCNT/RECVB.CUSTOMERS	+	0.0
11200000	ACCINT/RECVB. COSTUMERS	+	0.00
11900000	A/RBAD DEBTS RESERV	-	0.0
12100000	STOCK INVENTORY	+	1500.00
		TOTAL	33317.0
LESS DEPRECIATION			
14100000	DEPRECIATION ACCRUED	-	125.0
14200000	AMORTIZATION ACCRUED		0.0
		TOTAL	-125.0
FIXED ASSETS			
13100000	SHOP EQUIPMENT	+	0.0
13200000	FURNITURE & FIXTURES.	+	15000.0
13300000	TRANSPORTATION EQUIP.	+	0.0
13400000	LEASHOLD EQUIPMENT	+	0.0
13500000	LAND	+	0.0
13600000	BUILDING	+	0.0
		TOTAL	15000.0
OTHER ASSETS			
15100000	PREPAID EXPENSES	+	1000.00
		TOTAL	1000.0
	T	DTAL ASSETS	49192.0
			1

## 3.1.17.5.2 Balance Sheet Continued

Number         Note         Note           Software Arts         D3/07/2007 04:52:08 FM         PRCEND:1           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         Detail Report)           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         CURRENT LIABLITIES           CORRENT LIABLITIES         2010000           2010000         ACCHTS/PAVAB.VENDERS           2010000         ACCHTS/PAVAB.VENDERS           2010000         SALES TAX           2010000         SALES TAX           2010000         PAUROLI TAX. F M.T.           2010000         PAUROLI TAX. F U.T.A.           2010000         PAUROLI TAX. F U.T.A.           2010000         PAUROLI TAX. S. T.C.A.           2010000         PAUROLI TAX. S. N.T.C.A.           2010000         PAUROLI TAX. S. N.T.C.A.           2010000         PAUROLI TAX. S. TATE.           2010000         PAUROLI TAX. S. TATE.           2010000         PAUROLI TAX. S. TATE.           2010000         PAUROLI TAX. S. TOTA.           2010000         PAUROLI TAX. S. TATE.           2010000         PAUROLI TAX. S. TOTA.           2010000         PAUROLI TAX. S. TOTA.           2010000         PAUROLI TAX. S. TOTA.           2010000         PAUR	P for Windows - Version 8.20F ools Optional Configuration Manual Printer			
Intervent         Intervent         PACE NO:1           D3/07/2007 04:52:08 FM         PACE NO:1         PROCEDENT, FXX (Detail Report)           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         Intervent         Intervent           LIABLITIES         CURRENT LIABLITIES         0           20100000         ACCHTS/PAVAB.VENDERS         +         3400           22100000         ACCHTS/PAVAB.VENDERS         +         0           22100000         SALES TAX         +         0           22100000         PAIROLI TAX. F.W.T.         +         50           22100000         PAIROLI TAX. F.U.T.         +         50           22100000         PAIROLI TAX. F.U.T.         +         0           22100000         PAIROLI TAX. S.U.T.C.A         +         0           22140000         PAIROLI TAX. S.U.T.C.A         +         0           22140000         PAIROLI TAX. S.TATE.         +         0				
D3/07/2007 04:52:08 PM         PRCRENT. FX           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)				
D3/07/2007 04:52:08 PM         PRCRENT. FX           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)	Coffeenes But a		ער פיד אוס - 1	
USYOT/2007 04:52:08 PM         (Detail Report)           BALANCE SHEET 03/2007 (03/01/2007 TO 03/31/2007)         ILABILITIES           CURRENT LIABILITIES         20100000         ACCNTS/PAYABLE OTHERS         +         0.0           20200000         ACCNTS/PAYABLE OTHERS         +         0.0           22100000         PALROLITAK. F.W.T.         +         50.0           22100000         PAUROLITAK. F.U.T.A.         +         0.0           22120000         PAUROLITAK. F.U.T.A.         +         0.0           22120000         PAUROLITAK. S.U.C.A         +         0.0           22150000         PAUROLITAK.S.U.C.A         +         0.0           22150000         PAUROLITAK.S.U.C.A         +         0.0           22150000         PAUROLITAK.S.U.T.C.A         +         0.0           22150000         INCIME TAK. STATE.         +         0.0           2210000         INCIME TAK. STATE.         +         0.0           22100000         CAPITAL INCERSE         + <t< td=""><td></td><td></td><td></td><td></td></t<>				
LIABILITIES CURRENT LIABILITIES 20100000 ACONTS/FAVAB.VENDORS + 3400 20200000 ACONTS/FAVABLE OTHERS + 0 2110000 SALES TAX + 0 2210000 PAYROLL TAX. F.N.T. + 50 22120000 PAYROLL TAX. F. I. C. A + 0 22120000 PAYROLL TAX. F. U.T. A. + 0 22130000 PAYROLL TAX. F. U.T. A. + 0 22130000 PAYROLL TAX. S. U.T. C. A + 0 22150000 PAYROLL TAX. S. U.T. C. A + 0 2210000 PAYROLL TAX. S. U.T. A + 0 2210000 PAYROLL TAX. S. T. T. A + 0 2210000 PAYROLL TAX. S. U.T. A + 0 2210000	03/07/2007 04:52:08 PM			
CURRENT LIABILITIES           20100000         ACCNTS/PAYABLYENDORS         +         3400.           20200000         ACCNTS/PAYABLYENDORS         +         0.           21100000         SALES TAX         +         0.           22100000         PAYROLL TAX. F.W.T.         +         0.           22110000         PAYROLL TAX. F.W.T.         +         0.           22110000         PAYROLL TAX. F.U.T.A.         +         0.           22120000         PAYROLL TAX. S.D.I.C.A.         +         0.           22140000         PAYROLL TAX.S.U.I.C.A.         +         0.           22150000         PAYROLL TAX.S.U.I.C.A.         +         0.           22160000         PAYROLL TAX.S.T.T.C.A.         +         0.           22160000         PAYROLL TAX.S.T.T.C.A.         +         0.           22160000         INCOME TAX. FEDERAL.         +         0.           22100000         INCOME TAX. STATE.         +         0.           22100000         INCOME TAX. STATE.         +         0.           24100000         NDEYCAGES         +         0.           24100000         CAPITAL INCREASE         +         0.           25100000         CAPITA	BALANCE SHEET 03/2007 (03/01/200	7 TO 03/31/2007)		
2010000         ACCNTS/PAYABLE OTHERS         +         3400.           2020000         ACCNTS/PAYABLE OTHERS         +         0.           21100000         SALES TAX         +         0.           22100000         PAYROLL TAX. F. W.T.         +         50.           2210000         PAYROLL TAX. F. U.T.A.         +         0.           2212000         PAYROLL TAX. F. U.T.A.         +         0.           2212000         PAYROLL TAX. S. U.T.C.A         +         0.           22150000         PAYROLL TAX.S. W.T.C.A         +         0.           22160000         PAYROLL TAX.S. U.T.C.A         +         0.           22150000         PAYROLL TAX.S.U.T.C.A         +         0.           22160000         PAYROLL TAX.S.U.T.C.A         +         0.           22160000         INCOME TAX. STATE.         +         0.           22160000         INCOME TAX.STATE.         +         0.           22100000         INCOME TAX.STATE.         +         0.           22100000         NOTES PAYABLE         +         25000.           24100000         CAPITAL INCERASE         +         0.           25100000         CAPITAL INCERASE         -         0. </td <td></td> <td></td> <td></td> <td></td>				
2020000         ACCNTS/PAYABLE OTHERS         +         0.           2110000         SALES TAX         +         0.           2210000         PAYROLL TAX. F.M.T.         +         50.           22110000         PAYROLL TAX. F.U.T.         +         0.           22120000         PAYROLL TAX. F.U.T.A.         +         0.           22130000         PAYROLL TAX. S.D.I.C.A         +         0.           22140000         PAYROLL TAX. S.U.I.C.A         +         0.           22150000         PAYROLL TAX. S.U.I.C.A         +         0.           22160000         PAYROLL TAX. S.U.I.C.A         +         0.           22150000         PAYROLL TAX. S.U.I.C.A         +         0.           22900000         INCOME TAX. FATE.         +         0.           22900000         INCOME TAX. STATE.         +         0.           23100000         INCOME TAX. STATE.         +         0.           24100000         NOTES PAYABLE         +         25000.           2010000         STARTING CAPITAL         +         16000.           26100000         CAPITAL INCREASE         +         0.           2100000         CAPITAL INCREASE         -         0.				
21100000       SALES TAX       +       0.         22100000       PAYROLL TAX. F.W.T.       +       50.         22110000       PAYROLL TAX. F.U.T.A.       +       0.         22120000       PAYROLL TAX. F.U.T.A.       +       0.         22130000       PAYROLL TAX. S.D.T.C.A       +       0.         22130000       PAYROLL TAX. S.D.T.C.A       +       0.         22150000       PAYROLL TAX. S.U.T.C.A       +       0.         22160000       PAYROLL TAX. S.T.T.C.A.       +       0.         22900000       INCOME TAX. STATE.       +       0.         22900000       INCOME TAX. STATE.       +       0.         23100000       MDRTGACES       +       0.         24100000       MDRTGACES       +       0.         24100000       STARTING CAPITAL       +       16000.         200000       CAPITAL INTREASE       -       0.         2100000       CAPITAL INTREASE       -       0.			+	3400.00
2210000       PAYROLL TAX. F. W.T.       +       50.         22110000       PAYROLL TAX. F I C A       +       00.         22120000       PAYROLL TAX. F I C A       +       00.         22130000       PAYROLL TAX. S. U.T.A.       +       00.         22140000       PAYROLL TAX. S. U.T.A.       +       00.         22150000       PAYROLL TAX. S. W.T. C. A       +       00.         22160000       PAYROLL TAX. S. W.T. C. A       +       00.         22160000       PAYROLL TAX. S. U.I.C. A       +       00.         22160000       PAYROLL TAX. S. T.T. C. A       +       00.         22160000       PAYROLL TAX. S.T.T. C. A       +       00.         22160000       INCOME TAX. STATE.       +       00.         22900000       INCOME TAX. STATE.       +       00.         23100000       INCOME TAX. STATE.       +       00.         24100000       MDETGACES       +       00.         24100000       STARTING CAPITAL       +       16000.         26100000       CAPITAL INCREASE       -       00.         27100000       CAPITAL INCREASE       -       00.         29100000       COMPANY TAXES       0.			+	0.00
22110000       PAYROLL TAX. F I C A       +       0.         22120000       PAYROLL TAX. F.U.T.A.       +       0.         22130000       PAYROLL TAX. S.D.I.C.A       +       0.         22140000       PAYROLL TAX. S.D.I.C.A       +       0.         22150000       PAYROLL TAX. S.U.T.C.A       +       0.         22150000       PAYROLL TAX. S.U.I.C.A       +       0.         22160000       PAYROLL TAX. S.U.I.C.A       +       0.         22900000       INCOME TAX. STATE.       +       0.         22900000       INCOME TAX. STATE.       +       0.         22900000       INCOME TAX. STATE.       +       0.         23100000       NDRTGACES       +       0.         24100000       NDTES PAYABLE       +       25000.         EQUITY       25100000       STARTING CAPITAL       +       16000.         26100000       CAPITAL INCREASE       -       0.         2100000       COMPANY TAXES       -       0. </td <td></td> <td></td> <td>+</td> <td>0.00</td>			+	0.00
22120000       PAYROLL TAX. F.U.T.A.       +       0.         22130000       PAYROLL TAX. S.D.I.C.A       +       0.         22140000       PAYROLL TAX. S.D.I.C.A       +       0.         22150000       PAYROLL TAX. S.W.T.C.A       +       0.         22160000       PAYROLL TAX. S.U.I.C.A       +       0.         22160000       PAYROLL TAX. S.U.I.C.A       +       0.         22160000       PAYROLL TAX. S.U.I.C.A       +       0.         22900000       INCOME TAX. FEDERAL.       +       0.         22910000       INCOME TAX. STATE.       +       0.         23100000       INCOME TAX. STATE.       +       0.         24100000       NDTES PAYABLE       +       25000.         25100000       CAPITAL INCRASS       +       0.         25100000       CAPITAL INCRASS       +       0.         25100000       CAPITAL INCRASS       +       0.         27100000       CAPITAL INCRASS       -       0.         28100000       OTHER INVESTMENT       +       0.         2900000       VTD RETAINED EARNINGS       +       4742				0.00
22130000       PAYROLL TAX.S.D.I.C.A       +       0.         22140000       PAYROLL TAX.S.W.T.C.A       +       0.         22150000       PAYROLL TAX.S.U.I.C.A       +       0.         22160000       PAYROLL TAX.S.U.I.C.A       +       0.         22160000       PAYROLL TAX.S.U.I.C.A       +       0.         22160000       PAYROLL TAX.S.T.C.A.       +       0.         22900000       INCOME TAX.FEDERAL.       +       0.         22910000       INCOME TAX.STATE.       +       0.         23100000       INCOME TAX.STATE.       +       0.         23100000       NDRTGAGES       +       0.         24100000       NDTES PAYABLE       +       25000.         EQUITY       25100000       CAPITAL INCREASE       +       0.         25100000       CAPITAL INCREASE       +       0.         27100000       CAPITAL DECREASE       -       0.         28100000       OTHER INVESTMENT       +       0.         2900000       COMPANY TAXES       -       0.         29900000       YTD RETAINED EARNINGS       +       4742.			+	0.00
22140000       PAYROLL TAX. S. W. T. C. A       +       0.         22150000       PAYROLL TAX. S. U. I. C. A       +       0.         22160000       PAYROLL TAX. S. U. I. C. A       +       0.         22900000       INCOME TAX. FEDERAL.       +       0.         22910000       INCOME TAX. STATE.       +       0.         22910000       INCOME TAX. STATE.       +       0.         23100000       NORTGACES       +       0.         24100000       NOTES PAYABLE       +       250000.         200000       STARTING CAPITAL       +       16000.         26100000       CAPITAL INCREASE       +       0.         27100000       CAPITAL INCREASE       -       0.         27100000       CAPITAL INCREASE       -       0.         28100000       CAPITAL INCREASE       -       0.         29100000       COMPANY TAXES       -       0.         29100000       YTD RETAINED EARNINGS       +       4742.			+	0.00
22150000       PAYROLL TAX. S. U. I. C. A       +       0.         22160000       PAYROLL TAX. E. T. T. CA.       +       0.         22900000       INCOME TAX. FEDERAL.       +       0.         22910000       INCOME TAX. STATE.       +       0.         22910000       INCOME TAX. STATE.       +       0.         22910000       INCOME TAX. STATE.       +       0.         23100000       INCOME TAX. STATE.       +       0.         23100000       MORTGACES       +       0.         24100000       NOTES PAYABLE       +       25000.         EQUITY       TOTAL       25000.       2510000.       CAPITAL INCREASE       +       0.         25100000       CAPITAL INCREASE       -       0.       0.       0.         26100000       CAPITAL INCREASE       -       0.       0.       0.         28100000       CAPITAL DECREASE       -       0.       0.       0.         29100000       COMPANY TAXES       -       0.       0.       0.         29900000       YTD RETAINED EARNINGS       +       4742.       0.			+	0.00
22160000       PAYROLL TAX. E. T. T. C.A.       +       0.         22900000       INCOME TAX. FEDERAL.       +       0.         22910000       INCOME TAX. STATE.       +       0.         22910000       INCOME TAX. STATE.       +       0.         CONG TERM LIABILITIES       TOTAL       3450.         23100000       MORTGACES       +       0.         24100000       NOTES PAYABLE       +       25000.         EQUITY       TOTAL       25000.       25000.         EQUITY       STARTING CAPITAL       +       16000.         26100000       CAPITAL DECREASE       -       0.         27100000       OTHER INVESTMENT       +       0.         29100000       COMPANY TAXES       -       0.         2900000       YTD RETAINED EARNINGS       +       4742.			+	0.00
22 910000       INCOME TAX. STATE.       +       0.         TOTAL       TOTAL       3450.         LONG TERM LIABILITIES			+	0.00
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LONG TERM LIABILITIES         MDRTGAGES         +         0.           23100000         MDRTGAGES         +         0.           24100000         NDTES PAYABLE         +         25000.           2010000         TOTAL         25000.         25000.           EQUITY         STARTING CAPITAL         +         16000.           26100000         CAPITAL INCREASE         +         0.           27100000         CAPITAL DECREASE         -         0.           28100000         COMPANY TAXES         -         0.           2910000         YTD RETAINED EARNINGS         +         4742.	22910000	INCOME TAX. STATE .	+	0.00
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EQUITY         STARTING CAPITAL         +         16000           26100000         CAPITAL INCREASE         +         0.           27100000         CAPITAL INCREASE         +         0.           27100000         CAPITAL DECREASE         -         0.           28100000         OTHER INVESTMENT         +         0.           29100000         COMPANY TAKES         -         0.           29900000         YTD RETAINED EARNINGS         +         4742.	24100000	NOTES PAYABLE	+	25000.00
STARTING CAPITAL         +         16000.           26100000         CAPITAL INCREASE         +         0.           27100000         CAPITAL DECREASE         -         0.           28100000         OTHER INVESTMENT         +         0.           29100000         COMPANY TAXES         -         0.           29100000         YTD RETAINED EARNINGS         +         4742.			TOTAL	25000.00
STARTING CAPITAL         +         16000.           26100000         CAPITAL INCREASE         +         0.           27100000         CAPITAL DECREASE         -         0.           28100000         OTHER INVESTMENT         +         0.           29100000         COMPANY TAXES         -         0.           29100000         YTD RETAINED EARNINGS         +         4742.	EQUITY			
26100000     CAPITAL INCREASE     +     0.       27100000     CAPITAL DECREASE     -     0.       28100000     OTHER INVESTMENT     +     0.       29100000     COMPANY TAKES     -     0.       TOTAL     16000.       29900000     YTD RETAINED EARNINGS     +     4742.		STARTING CAPITAL	+	16000.00
2810000         OTHER INVESTMENT         +         0.           29100000         COMPANY TAXES         -         0.           TOTAL         16000.           29900000         YTD RETAINED EARNINGS         +         4742.			+	0.00
29100000         COMPANY TAXES         -         0.           TOTAL         TOTAL         16000.           29900000         YTD RETAINED EARNINGS         +         4742.	27100000	CAPITAL DECREASE	-	0.00
29900000         YTD RETAINED EARNINGS         +         4742	28100000	OTHER INVESTMENT	+	0.00
29900000 YTD RETAINED EARNINGS + 4742.	29100000	COMPANY TAXES		0.00
			TOTAL	16000.00
TOTAL 4742	29900000	YTD RETAINED EARNINGS	+	4742.00
			TOTAL	4742.00
TOTAL LIABILITY + EQUITY 49192.		TOTAL LIABILITY +	EQUITY	49192.00

# **3.2 Implementing pcMRP**

#### 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 15.11.1 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. If, after reviewing the applicable chapters, things are still not clear, you can always call our support lines and we will be glad to help.

- 1. Register your copy of pc/MRP and obtain your Configuration Code Number by calling Software Arts 408-248-6445
- 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 manual chapter 16.16 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 (pc/MRP manual 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 enter invoices you have been paid for, 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 at a later date, from this point on 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 enter receivers you have paid for, make sure you put a "Y" in the complete field of those receivers.
  - c. If you plan to implement accounting, now or at a later date, 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.

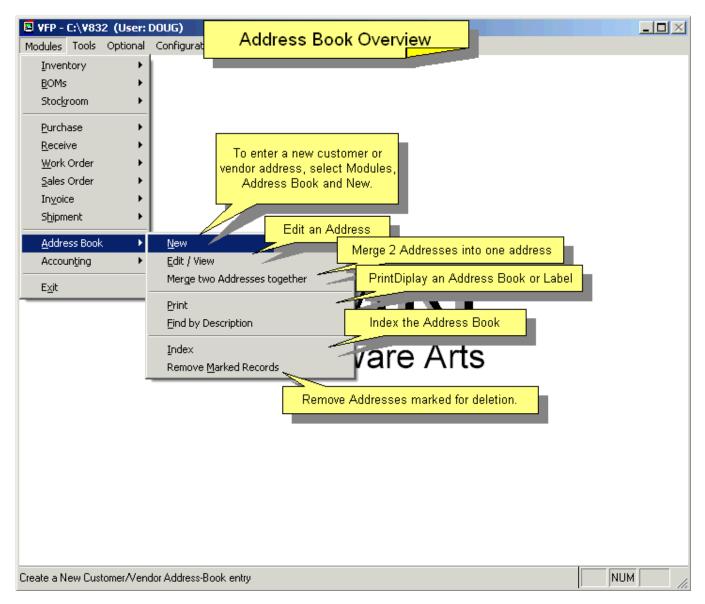
- e. If you plan to implement accounting now or at a later date, from this point on you must enter an "I" type transaction when you enter a receiver and an "E" type transaction or check run (multiple "E" type transactions) whenever you pay for a receiver.
- 12. Set up the inventory and WIP quantities 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 Physical Inventory Variance report. Make sure the inventory value is correct.
  - c. Use the Stock Room 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", and "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 15.11.1 Importing Data Files or contact Software Arts directly.

**\*NOTE:** If using your own numbering system, ensure that there are six (6) alpha-numeric characters or if not, enter leading zeroes (0).

#### 3.2.3 Data Review

After entering all of your data into pc/MRP, be sure to go through 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**



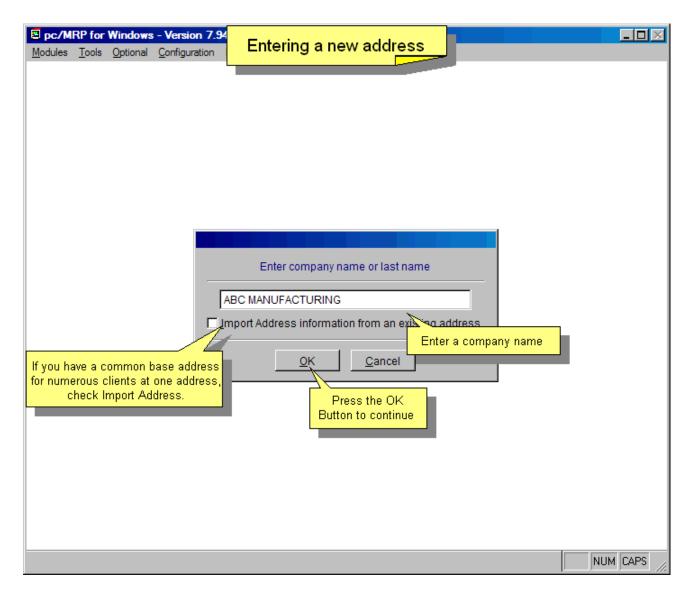
#### 4.1 Address Book Overview

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 data. The addrbook.dbf file is encrypted with pc/MRP versions 7.04 and higher as credit card numbers are stored in this data base file. An on-line slideshow is located here: <u>http://www.pcmrp.com/mrp101/addressnew.htm</u>

### 4.2.1 Enter A New Address, Step 1, Modules, Address Book, New

<b>VFP - C:\V83</b>			Entering a new address	_ 🗆 🗵
Modules Tools Inventory BOMs Stockroom	Optional	Configuration		
Purchase Receive Work Order Sales Order In⊻oice Shipment Address Book	) 	<u>N</u> ew	To enter a new customer or vendor address, select Modules, Address Book and New.	
Accounting Exit	•	Edit / View Merge two Ad Print Eind by Descr Index Remove Mark	/are Arts	
	-			
Create a New Cus	tomer/Ven	dor Address-Book	entry	NUM

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



Enter the company name or last name of the person whose address you wish to enter. 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.

Address ID auto inserted       ddress Creation       Customer's Balance Due         Addr fd       Company Name       Addr Type       Status       Balance         ABC002       ABC MANUFACTURING       Image: APP image: Output the customer's Average       0.00         Company       Contacts       Sales Contact Info       B       DIS       Ding       Documents       Qui / A oks@         Attention       Select Address Type and       Status. Settings and       Utilities Option 52 allows       VEN       The Customer's Average       Days to Pay will display here       (in red if any invoice is past         City       you to create Type and       Status Lists.       VEN       Emp       (in red if any invoice is Date ).         County       C-Card       Exp       (         County       Credit Cards       Do Not Call
Company       Contacts       Sales Contact Info       B       CUS       Dis       Dis <t< th=""></t<>
Telephone   Faxno   Start Date   06/13/2011     Do Not Fax   Do Not e-Mail     Comments:     Labels   Logbook     Delete     Ok

## 4.2.3 Enter a New Address, Step 3, Enter Company Type and Status

The top row of fields, Addr ID, Company Name, Addr Type, Status, and Balance, appear above the tabbed pages.

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 display HEW002 as the address ID code. You can override the pc/MRP ID code and enter any code you care to. 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. 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 into a purchase order.

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.

#### 4.2.4 Enter a New Address, Step 4, Enter Company Information on Company Tab Page

pc/MRP for Windows Modules Tools Optional	Enterin a/	diting an Addres	
Contract, Contra	ook New Address Creation		
Addr Id	Company Name	Addr Type Status	Balance
ABC002	Company Tab	CUS 🗾 APP	
Company	Contacts Sales Contact Info	Billing \ Shipping	Documents 8,55 and lower will store 1 credit card
Attention	John Smith	Contact John Sm	ith number per
Address	123 Main Stre	Title VP Purch	customer, Email
İ	Control, Left Click y	Vill Delutetien	Button
City	display the websit		
		Jonnange	abcman.com
	CA 95119		man.com
County		C-Card	Exp /
Country	USA	Credit	çards 🔲 🗖 Do Not Call
Telephone	333-444-0900 Ext	Serial #	🔽 🗖 Do Not Fax
Faxno	333-444-0901	Start Date 06/13/20	11 Do Not e-Mail
Comments			pc/MRP Versions 8.56 and higher
	us for over 20 years	Display Map	will store an unlimited number of
John is ou	r main contact 🔨		credit cards per customer. If
			Marathon Solutions is your credit
	Unlimmited Comments		card processor, pc/MPR will allow accounting to automatically process
	Commento		the customer's credit card.
La <u>b</u> els	Logbook Delete	Credit Card Data will be encrypted when	<u>Ok</u> Cancel
		saved back to the data	
		base files 🦯	
URL to the Customer/Vende	or website		NUM

The Company page of the address book data entry screen allows you to enter the: Company Name, 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.

The **Credit Card Number** will be encrypted whenever the address record is saved and stored in the address book data base file.

The **Display Map** Button will display a map of the address provided you are connected to the internet (see step 4.2.12).

#### 4.2.5 Enter a New Address, Step 6, Enter Unlimited Contact Information

pc/MRP for Windows - Version 8.56B Modules Tools Optional Configuration	ntering/Editing an Address
Addr Id Company Nat Conta ABC002 ABC MANUFA	K on the acts Tab       Addr Type     Status     Balance       CUS     APP     0.00       s Contact Info     Billing \ Shipping     Documents     QuickBooks®
Contacts New Delete Mr Bill Blakg (VP) Mr. Jim Johnson (Presiden Unlimited contacts per address	Title Mr. (Mr., Mrs., Dr., etc.)   First Name Jim   Last Name Johnson   Position President     Contact Methods Contact Notes   Contact Method Contact Notes     Method Value   Email jjohnson@abcmfg.com   Cell Phone 333-333-2222 x21   Unlimited contact methods per contact.
La <u>b</u> els Logbook <b>()</b>	Delete Contact Tab is available on pc/MRP Versions 8.55 and higher.
Contacts (c:\pcmrpw856\contacts.dbf)	Record Unlocked NUM

#### **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, yes/no, etc.

#### **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 characters.

#### To enter a contact:

- 1. Press the New button to enter a new contact; you can also enter a 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 value 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 currently selected method.

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

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

E pc/MRP for Windows - Version 8.568 Modules Tools Optional Configuration	Entering/Editing an Address
Address Book New Address Cre Addr Id Company Name ABC002 ABC MANUFACTURING Company Contacts Sales (	Click on Sales Contact Info Tab Balance Via, Related Doc #,
Salesman Bill Jones Salesman email bjones@abcmfg Commission % 10.00 Region CA Territory West Coast	Tax ID # 94-2222 .com Tax Code CA13 IRS Form 1099 Division Tax % 7.000 Salesman, Commission, Region, Territory, Terms, Related Doc, Tax, Div, Discount are automatically inserted into new sales orders and invoices
Resale # and	t 0.00 Vereieneu by Jerry Smith Source Trade Journal Purpose Priority All Drop Down List Boxes are user definable and can be created using Configuration, Settings and Utilites, Option 52.
Credit Limit Yearly Quota 0.00	Delete       Ok       Canfiguration, 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.

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 and have divisions and departments.

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.

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 his bill in time to get the terms discount.

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

The **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 resale number.

The **Credit Limit** field allows credit limits to be established for each customer. Option 53 in the settings and utilities menu, enables or disables a warning message from popping up if a sales order exceeds the customer's credit limit. In addition option 53 will also allow you to establish an over ride password.

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 and then press "Update" to update the tax rate on all addresses that have that tax entity code. 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.

Check the **IRS Form 1099** check box field if you feel 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 **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 **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 end users specifications. **Priority** may contain a HIGH, LOW, or MEDIUM designation. **Interests** may contain GOLF, SOCCER... **Concerns** could contain such things as quality, timeliness, 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.

pc/MRP for Windows - Version 8.508 Modules Tools Optional Configuration	Entering/Editing an Address	
Modules Tools Optional Configuration  Addr Id Company Name ABC001 ABC MENALIEAC  Click to insert main Comp Company Address  Company Cabco MANUFAC  Attention Address Company Address from another address book.  State / Zip CA Country USA Telephone 333-444-0900  Note: Leave the address s	Entering/Editing an Address Addr. Two Statue Balance Average to Pay: 0 Days Click on Billing\ShippingTab O.00 Days QuickBooks® Click to insert main Company Address TURING Display PAYABLE Map Address Company Attention Address Click to insert Shipping Address from another address in the address book. Address City MOUNTAIN HILLS State / Zip CA Telephone 333-444-0900 The option to Click to insert the Shipping and Billing and/or Shipping address fields blank to use the as the main address. Billing Address from another add	4 4
La <u>b</u> els Logbook (	Delete	
		PS //

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

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**, you can enter a **Remit to Address** instead of a Billing 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.

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

pc/MRP for Windows - Version 8.04     Entering/Editing an Address	
Address Book - Edit Mode         Addr Id       Company Name       Addr Type       Status       1. Click on the Documents Ta         ABC001       ABC MANUFACTURING       CUS       APP       1. Click on the Documents Ta         Company       Sales Contact Info       Billing \ Shipping       Documents       2. Select Document         Display:       Invoice       Sales       Item Track Cmp Description       Date Ship       Sale Price       Invoice         000001       000104 0001       Y       BEARING 3.000D x 1.09/14/2005       20.000       Sales Orders         000002       000105 0001       Track It       WHEEL ASSY       09/14/2005       2.000         000003       000106 0001       Track It       SPOKE       Ofrio/2005       2.000         Green indicates       Open (not paid).       Red indicates       Open and over         6D days old.       Express Shipment       Express Shipment       Express Shipment	
Labels Logbook Delete Ok Cancel	

When entering an address for the first time this page will be empty. However in the future this page will allow you to review all pc/MRP documents (Purchase Orders, Receivers, Invoices, etc) for this customer.

Selecting the Documents Tab will display all of the documents for this company as shown below. The rows are also color-coded. Rows in black are complete. Rows in green are open, rows in Red are open (Complete does not equal Y) and over 60 days from invoice date.

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.

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

pc/MRP for Windows - Version 8.04     Entering/Editing an Address
Address Book – Edit Mode         Addr Id       Company Name         Addr Id       Company Name         ABC001       ABC MANUFACTURING         CUS       APP         Company       Sales Contact Info         Billing \ Shipping       Documents         Quick Books
Quick Books Ids         Customer Id       ABC MANUFACT - Cust - ABC001         Vendor Id       CA STATE BOA - Vend - CAL001         If an invoice or receiver for this address is exported to QuickBooks, if QuickBooks does not contain an address will be exported to QuickBooks .
La <u>b</u> els Logbook Cancel
NUM //

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 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.

VFP - C:\V794 (U Modules Tools Optic		-		
Addr Id ABC002	ook – Edit I Compan ABC MAN	y Name IUFACTURING	Addr Type Status Balance G CORPORATION CUS I APP I 0.00	
Attenti Addre: C Z Coun	Mailing Address	John Smith 123 Main S		
Telephoi Faxi Comm John S Deav E	•	t Type Sheet Fed Pin Fed I Align	Output To C Mailing (4 x 2-7/16) Stock (3-1/2 x 15/16) C Custom Label CUSADR1.LBX	
Deave	Sa <u>v</u> e o	current settings	s as Default <u>Ok</u> <u>Ca</u> Custom labels can created with Settir and Utilities Option	ngs
Labels		oook 🍺	<u>D</u> elete <u>O</u> k <u>C</u> ancel	
		e Labels Butto bels for this ac	address. file.	1

4.2.10 Enter a New Address, Step 10, Print Address Labels

The **Label** 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

VFP - C:\V794 (User: DOUG)
Address Book – Edit Mode
Addr Id     Company Name     Addr Type     Status     Balance       ABC002     ABC MANUFACTURING CORPORATION     CUS     APP     0.00
Company Sales Contact Info Billing \ Shipping Documents Quick Books
Attention John - ···
Address 123 File Edit Format View Help
City Jone LOG BOOK FOR ACCOUNT: ABC002 ABC MANUFACTURING CORPORATION
Zip 9411
Country USA Control F5 automatically inserts the
Telephone 333- date and time for the log book entry.
Faxno 333-
Comments:
John Smith is th
Deav Berry is th
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.

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

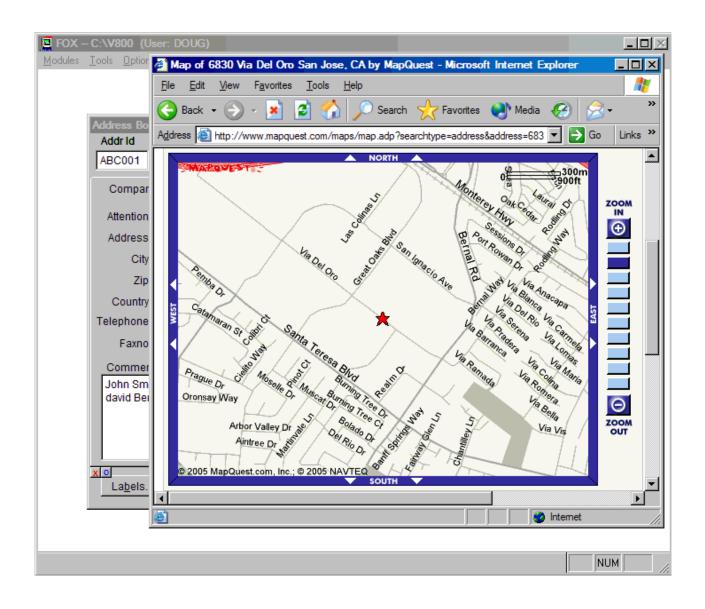
4.2.12 Enter a New Address, Step 12, Create Pop Messages for the Address

<b>VFP - C:\V7</b>	4 (User: DOUG)						
<u>M</u> odules <u>T</u> ools	Optional Configuration	on Ma <u>n</u> ual					
	ss Book – Edit Moo						
Add			Addr Type	Status	Balance	221	
ABC	Pop-up Messag			3. Selec	t Icon	×	
Co	Window Title	2. Enter Pop up Title	Icon			ks	1
Atte	Warning		Red X			. –	
Ad			(None)		<u>O</u> k	┙╞╴	
~~	Display mess		Information Question		<u>C</u> ancel	1	
	Address E		Warning				
с	Purchase		Red X				
Teler	Vendor As	signment in Inventory		<b>_</b>	Test		
1010	Message (10	24 Character Limit)					
	Check or gradit as	· · · · ·	5. Enter Messa	ge		ail	
Co Jot							
De							
			this button to cr ssage for this C				
xo	1						
	a <u>b</u> els <u>L</u> ogboo	k Delete			<u>O</u> k	<u>C</u> ancel	
							J
Popmsg (c:\v794\p	popmsg.dbf)		Record: 2/2	Re	ecord Unlocked	NUM	

You can create **Pop-up Messages** that will pop up when a user edits 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.

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

#### 4.2.13 Enter a New Address, Step 13, 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.

pc/MRP for Windows - Version 8.04D     Modules Tools Optional Configuration Ma			
Address Book – Edit Mode Addr Id Company Name ABC001 ABC MANUFACTURING C Task Properties Att Ac Task Cor 2. Check Ren M Reminder 09/14/2005 02:35:39	3. Set Date/Time Priority PM	Sales Follow-up 4. Set	≥ to Working
Stat Properties Comments ( Call Bob and remind him to re C Tele Cc		Not Started Working Hold Xabandoned Complete	
1	Press this buton to create a Tickler Message. Requires otional Task/Tickler Module.	<u>Ok</u> <u>Ok</u> <u>Ok</u> <u>Ok</u> <u>Cancel</u>	
Relateditems	Record: None	Exclusive	NUM

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.

Pressing F4, will also allow you to create a new tickler or task from any module within pc/MRP.

Pressing Alt F4 will allow you to edit a ticker or task from any module within pc/MRP. See chapter 16.18 for details.

#### 4.3.1 Edit an Address

and Edit Preferences. Save Settir Color Co Go Top Go Bottor	Search sy way to ress. ok Datab serial Number) ok Datab serial Number) ok Datab serial Number) serial Number) add sort Orger Company Name Sort Orger Company Name 2. Enter first couple of characters 3. Press Search
	Company Name       Attention:         ARRO       4. Select Address         BBC Me       PANY         ATTN: JOESPH CARTRIGHT THE 3F         BBC Me       PANY         ATTN: JOE SMITH         CA STATE BOARD OF EQUALIZATION         ATTN: JOESPH CARTRIGHT THE 3F         DIGI-KEY ELECTRONICS         MOUSER ELECTRONICS         OREGON STATE BOARD OF EQUALIZATION         ATTN: JOHN DOE         OREGON STATE BOARD OF EQUALIZATION         ATTN: DEPT 2         5. Press OK
Select Edit or View, Save Settings will store your preference List of applicable records	

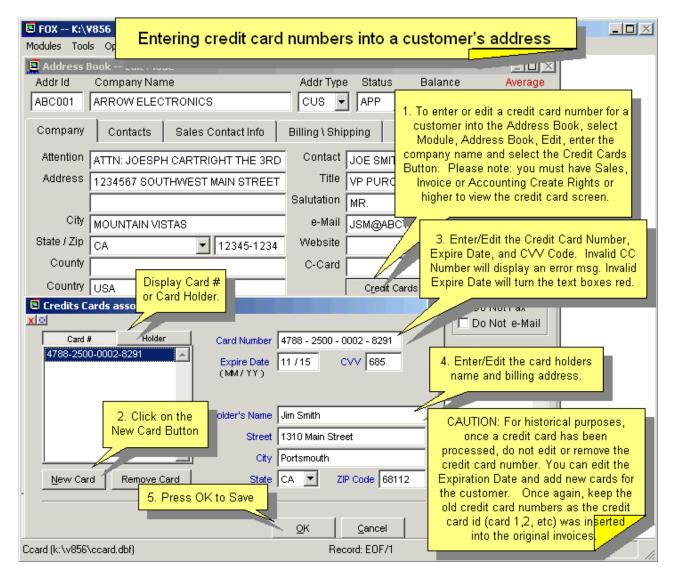
This option allows users to scroll, edit, delete, undelete, or run queries against Address Book information.

- 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 15.14.4
- 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.

Almost every field in the Address Book is editable. However, users must understand several key concepts:

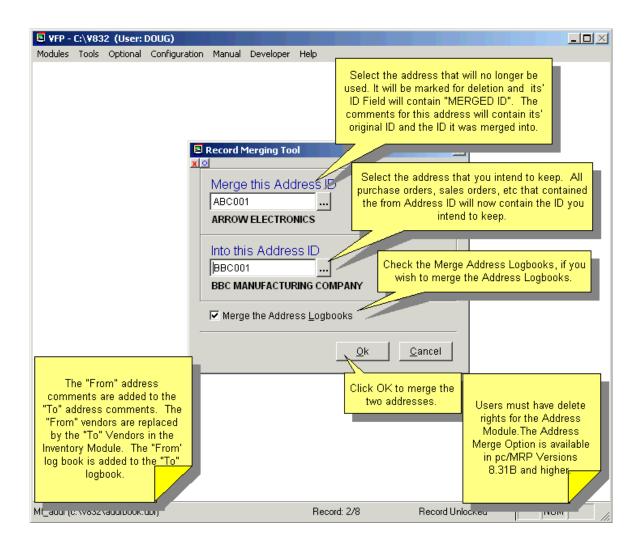
If you have changed the Address ID Code, a pop-up screen will ask, "Change Address ID Code through out all modules, purchasing, sales, etc". Answer **Yes**, if you wish to change the address ID code in every module. (It is recommended that you answer **Yes**.)

Use the **Delete** button to mark a record for deletion. Use the Undelete button to unmark the record for deletion.



#### 4.3.2 Enter Credit Card Numbers for a Customer's Address.

The credit card fields on the Company tab are no longer needed in pc/MRP versions 8.56 and higher. The fields are still there for you to add the data to the credit card screen after you press the **Credit Cards...** button. 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.



#### 4.5 Print/Display Address Reports and Labels

VFP - C:\V79 odules <u>T</u> ools	-	DOUG) Configuration Ma	nual De <u>v</u> eloper <u>H</u> elp		
Addres	ss, All Ot becified s iny's Addr d <b>resses</b>		s pick from set of	t if you want to the Specified Addresses. Vidual Address Picker	3. Generate Address Book or Labels. Generate Address Book
ld Name Pname		Equal To Equal To Equal To	4. Select Add		Primary
Address City State		Equal To Equal To Equal To	Richland		Display, Print or File
Zip Country		Equal To More Than Less Than Contains			Output T Star_ard Custom Report
Phone Extension		ls Empty In List In a Range	-		CUSADR1.LBX
Query Type	Inclusi	5. Select	Inclusive, (addresses n		<u>Ok</u> <u>C</u> ancel 9. Press OK
npquery				ord: 6/72 Exclu	isive NUM

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 Salt Lake City, their **CURRENT BALANCE** is less than \$1000.00, and their **INTERESTS** are GOLF.

The end user would select **CITY** under the **All other Addresses FIELD**. Select **This CITY**, and type Salt Lake City in the gray area under the **All other Addresses FIELD**. The end user could simply type Salt, and select **Partial** for a **MATCH**. However, since we are looking for Salt Lake City, not all cities that have Salt in the name, the end user would simply select **Exact** for the **MATCH**.

Select **CURRENT BALANCE** under the **All other Addresses FIELD**. Select **the CURRENT BALANCE** is, using the drop down menu select **LESS THAN**, and finally write \$1000.00 in the gray area under the **All other Addresses FIELD**.

Select Interests under the All other Addresses FIELD. Select This INTEREST, and write in GOLF in the gray area under the All other Addresses FIELD.

**NOTE:** For more information on running an address book query, please see section 15.14.1.

An end user can unselect a constraint by going back to the FIELD and selecting **ALL...** Furthermore, an end user 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, the end user must decide what they 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**, **SALESMAND**, **SOURCE**, **STATE**, **TAX CODE**, **TERRITORY**, **YEARLY QUOTA**, and **ZIP CODE** 

The end user can select where they 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**, the end user can import information onto word processing programs such as Word or Word Perfect for creating form letters or catalogs. Specifically in Word, an end user 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 by Description (All Addresses)

Searching the address book will print out or display all addresses matching the partial description you entered.

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

4.8 Indexed Searches (see 15.14.2)

#### 4.9 Index (see 15.14.3)

- 4.10 Remove Marked Records (see 15.14.4)
- 4.11 Remove Over X Years (see 15.14.5)

## **5** Inventory Module

pc/MRP for Windows		<u>- 0 ×</u>
·	Configuration Manual	_
Inventory	Edit / View	
Stockroom	Change Part Number	
Purchase	Eind Parts	
<u>W</u> ork Order ► Sales Order ►	<u>R</u> eports Labels	
Invoice	Sale Price Mark-up Cost & MTBF Roll-up	
Accounting	Physical Inventory Audit - Inventory Data	
E <u>x</u> it	Audit - WIP Quantities Index Remove Marked Records	
	by Software Arts	
Add a new Part to the Partma	aster	NUM

#### 5.1.1 Inventory Module Overview (see slideshow at: <a href="http://www.pcmrp.com/mrp101/partnextavail.htm">http://www.pcmrp.com/mrp101/partnextavail.htm</a>)

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/partnew.htm">http://www.pcmrp.com/mrp101/partnew.htm</a>

#### 5.1.2 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 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 (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.

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Below are some additional ideas to think about if you are free to define the part number size and structure:  $pc/MRP \ V8.50$ 

A straight non-encoded numeric part-numbering scheme can be employed. It is easier to maintain and expand a stock room 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.

Encoding the first two or three characters of the part number as a product code, will allow scrolling to start with the product code. The size of the product code can be set on the in the Settings and Utilities Module.

Large part number structures slow down data input and lead to data input errors. Supermarkets do not trust people to put in \$6.99 let alone a 15-character part number. 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.

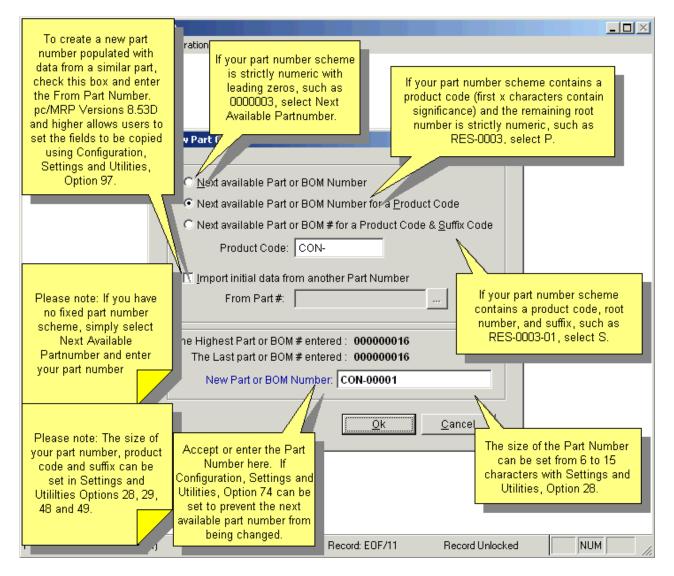
An 8-character part number structure could be optimal for companies that plan to use Auto Cad to generate and store their drawings.

Companies dealing with consignment parts should read the chapter in section 15.9.5 which covers part numbering schemes (methods) for companies who carry a large number of consignment parts. pc/MRP defaults to a 9-character part number size and a 2-character product code size unless modified by the user in the Configuration Menu.

If your part numbers are larger than 15 characters, put the large part number in the 'Model Numbers 1' field and a new abbreviated partnumber in the 'Part Number' field. Purchase Orders and Invoices will include both the new Part Number and the Model Number.

Do not put your customer 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'.

# 5.1.3.1 Enter a New Part Number, Step 1



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

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

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

Nod 1.Select Part Type Part-Inventory, Part-NonInventory, Assembly, Labor-Inside, Labor-Outside	Developer Help  2. Enter Revision  Optional
Inventory New Entry	
Part # CON-00001 Type Par	rt - Inventory Revision Inspection Criter Optional
Description CON, PCB MOD JACKS	Displayed Currency BASE CURRENCY
Qtys \ Costs Vendors S	Sales Prices 3. Enter Description or click on the
Costs: Average 0.0000	Description Description Button to insert a pre-defined description from Option 58.
Standard 0.0000	Asser Cost Dr. Select a description template
Last PO 0.0000	CAP, XXXUF, XXX VOLTS
On Order 0.000 On Demand 0.000	Displa Updat
MRP Available 0.000	
Estimated Usage 0.000	
Minimum Gty 0.000	
Maximum Qty 0.000	<u>O</u> K <u>Cancel</u>
Std Order Qty 0.000	
Order Multiple 0.000	11 RESERVED 0.000
Stock & Issue Unit	Date of Last PI / CC 12 Area-12 0.000
Lead Time (Days) 7	13 Area-13 0.000
Log B	ook Par Date of Last Physical Inventory or <u>Cancel</u> Cycle Count for this part number.
Partvend (c:\v832\partvend.dbf)	Record: EOF/3 Record Unlocked NUM CAPS

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 and then Change Part Number. If using or are planning to use QuickBooks for accounting, the allowable ASCII characters for the Addresses, Part numbers, Phone numbers, and Description fields are:

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

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 is a part of what you make and sell; e.g. Paper Towels, Office supplies, Office furniture. We added non-inventory part numbers to increase our compatibility with QuickBooks to be used as pc/MRP's accounting module. Classifying a part as non inventory only effects what type of account gets debited when accounting gets the vendor invoice and the receiver is posted to the general ledger. Also you can select to include non-inventory parts or not in your inventory value reports in the inventory module.

#### Labor - Inside:

Labor used to build/create/modify the part or assembly.

#### Labor – Outside:

Labor used to build/create/modify the part or assembly elsewhere (outsourced).

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 ECN module will automatically increment the revision level for a part number whenever a new ECN is created for that part number.

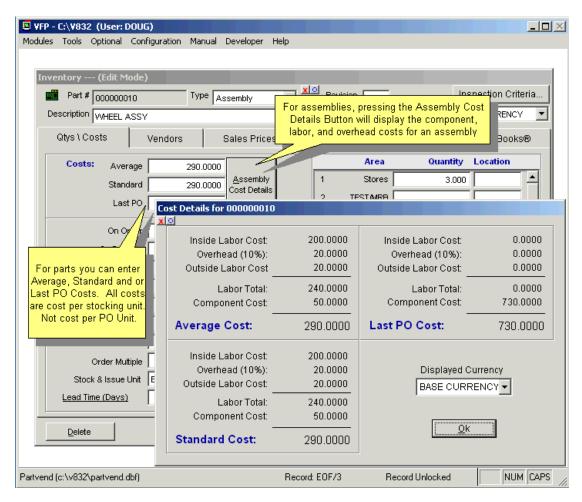
Enter the **Description** (descript). Descriptions should be such that similar items appear together in any report sorted by description.

**NOTE:** If you need a longer description than 35 characters, you may use the General Info field on the Details 2 tab (section 5.1.3.10) and print this on your forms.

The **Inspection Criteria** Button is available for users 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 users who have purchased pc/MRP's Optional Alternate Currency module. It allows users to display the cost and pricing information in alternate currencies.

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



The **Ave Cost/Unit** (cost) contains the average cost per unit. The value in this field is 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 8.1.4)

The **Std 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** (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 new PO, you must manually edit the part's Last PO Cost.

The **Cost Detail 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.

**Option 35** in the configuration settings and utilities menu, sets whether the average or standard cost will be inserted into sales orders/quotes and invoices as the cost of sales. Option 35 will also set what is included during cost roll ups, Component costs, Component costs + labor costs, or Component costs + labor costs + labor x % overhead.

# 5.1.3.4 Enter a New Part Number, Step 4, Enter Lead Times, Order Quantities, etc.

VFP - C:\V832 (User: DOUC Modules Tools Optional Conf		lelp		
Inventory (Edit Mode)		_ X 0		
🤏 Part # CON-00001	Type Part - Inventory	Revision	Ins <u>p</u> ection	Criteria
Description CON, PCB MOD J/	ACKS	Display	ed Currency BASE CURR	ENCY 🔽
Qtys \ Costs Ver	ndors Sales Prices	Pressing the Display an		ooks®
Costs: Average		Button will update and di open purchase and sales		n
Standard	10.0000 Assembly	the screen shown b		
Open PO qty	Cost Details			
Open sales	10.0000	3 R&D	0.000	
dty On Order	5.000 Display &	4 DEMO	0.000	
On Demand	n.nnn Update		· · · · · ·	
, MKP Available	CON-00001 CON, PCB MOD	JACKS		×
Estimated Usage	Open <u>P</u> urchase Orde	ers	Open <u>S</u> ales & Work Or	ders
Minimum Gty	Order # Item # Orig (	Quantity Backorder Qt		/endor Name
after MRP 01 allocation Maximum Qty	100003 0001 5.0	000 5.0000		
Std Order Qty			Button will update the Demand Quantities	
		On Order and On	Demand Quantities	
	td Order Qty used by MRP	5.000 5.00	00	Done
Stock & Issue Unit				
Lead Time (Days)	7 03/17/2009	13 Area-13	0.000	<b>_</b>
MRP will use default lead times if set to 0 (option 67)	Log Book Part	Status	<u>O</u> k <u>C</u> a	
Sotemp		Record: None	Exclusive	NUM CAPS

The **On Order** (onorder) field contains the quantity on order from 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 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. The **On Order** and **On Demand** can be displayed and updated by pressing the **Display and Update** button.

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 **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 **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. 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.

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 defaults to the **Std Order Qty**.

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 all parts, not using sub-assemblies already built. The default lead times for parts and assemblies can be set in Configuration, Settings, and Utilities, Option 67. If pc/MRP's Infinite Bucket Module finds a 0 in the lead-time it will use the default lead times found in option 67. 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 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

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

dules Tools Optional Inventory (Edit M Part # CON-000 Description CON, PCI	ode) 101	Type Par	t - In pc/MF are	RP has 2 as and 1 nhand, A	WIP	ehouse F area	Location Fields (locate,locate2,et (5B2 would be Ro Bin 2	c). Dritorio	a
Qtys \ Costs	Vend	ors S	Sale <mark>: A</mark> t	ea20Qty	,Wip0	Qty)	Details 2	Quich ooks®	
Costs: Aver	age 🗌	6.0000				7 2	Quantity	Location	
Stand	lard	10.0000	<u>A</u> ssembly Cost Details		1	Store	10.000		-
Las	PO	10.0000	obat botalla		2	TEST/MRB	2.000		
					3	R&D	0.000		
On O		5.000	Display & Update		4	DEMO	0.000		
On Dem		0.000	Opuare		5	INCOMP	0.000		
MRP Avail		5.000			6	ENGINEER	0.000		
Estimated Us		0.000			7	QC HOLD	0.000		
Minimum	Qty	0.000			8	RMA	0.000		
Maximum		0.000			9	STAGING	0.000		
Std Order	Qty	0.000		_	10	SCRAP	0.000		
					11	RESERVED	0.000		
The quantity of a par	t	The warehou:	se names	c	12	Area-12	0.000		
number is increased whenever it is receive		can be char Option 34			13	Area-13	0.000	·	·
whenever it is receive nd decreased when it sued to mfg or invoice	is	Configuration and Utilites	, Settings	<u>S</u> tatu:	s		Qk	Cancel	

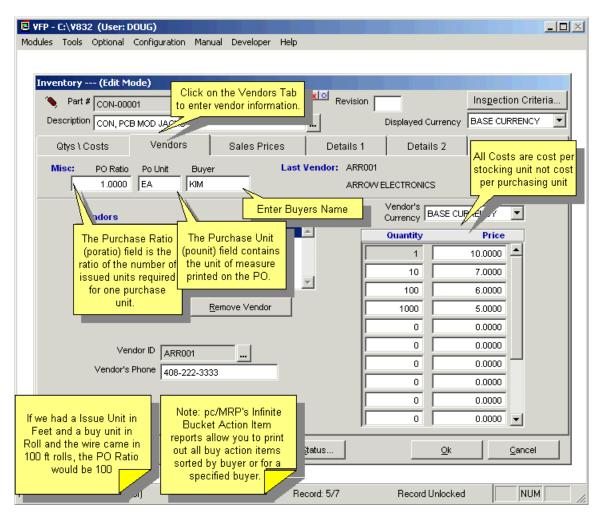
The warehouse **Area Names** such as TEST/MRB, ENGINEER, and R&D can be changed using option 34 in the configuration, settings and utilities module. It is important to note that these are areas that store parts & assemblies, not manufacturing areas. pc/MRP has one area representing manufacturing and that area is WIP (work in progress).

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" and/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 "Issue Parts to Manufacturing" an "Lower Level Issue" as pc/MRP will only remove parts from WIP when a sales or work order is "Received back from manufacturing as completed assemblies".

The part's **Location f**ields (locate, locate2-locate20) can contain any six-digit code you care to come up with to aid in locating parts.

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



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. The **PO Ratio** must be a positive number greater than zero. A zero could cause a divide by zero overflow error. 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 action item reports allows you to print out all buy action items by buyer or for a specified buyer.

# 5.1.3.7 Enter a New Part Number, Step 7, Enter Vendors and Price Qty Breaks

VFP - C:\V832 (User: DOUG) Modules Tools Optional Configu	ation Manual Developer Help		
Inventory (Edit Mode)  Part # CON-00001  Description CON, PCB MOD J.  Qtys \ Costs Ver  Misc: PO Ratio Po Un  1.0000 EA	dors Sales Prices Deta	(Versions 8.22A and higher)	
Vendors  ARROW ELECTRO  DIGI-KEY ELECTRO  MOUSER ELECTRO  Add v  New Vendor		Vendor's Currency BASE CURRENCY ▼ Quantity Price 1 10,0000 10 7,0000 100 6,0000 100 5,0000 0	
Vendor's Phone		0 Enter Price Qty Breaks 0 0 0.0000 0 0.0000 0 0.0000	
Partvend (c:\v832\partvend.dbf)	Log Book Part <u>S</u> tatus Record: 5/7	Qk <u>Cancel</u> Record Unlocked NUM	

The **Vendor Lookup** (id1-id3) allows you to enter vendor(s) from the address book for each part. Click on the "Vendor ID #" ellipsis button and enter the first few characters of the **Vendor Name, Phone Number, or ID Number**. Select the address you wish to enter and press the "Ok" key. That vendor's name, phone number, and ID number will then be filled in automatically.

The **Quantity** (qtyl2-qtyl5, qtyl2\_v2-qtyl5\_v2, and qtyl2\_v3-qtyl5\_v3) fields contain the quantity breaks for the three primary vendors.

The **Cost** (stdcost1-stdcost5, stdcost1b-stdcost5b, and stdcost1c-stdcost5c) fields contain the cost breaks for the three primary vendors. These fields will store the costs in your base currency if you have the alternate currency module. Changing the displayed currency to an alternate currency will display the vendor costs in that currency.

The **Vendor Currency** (vendcurncy, vendcur2, vendcur3) drop-down list boxes are available for each vendor if pc/MRP's optional Alternate Currency module has been activated. This allows the user to set the vendor's base currency. If you change a currency rate in the alternate currency module, pc/MRP will change the vendor cost (stdcost1-stdcost5, stdcost1b-stdcost2b, etc.) 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.

# 5.1.3.8.1 Enter a New Part Number, Step 8.1, Enter Selling Prices (Option 1, Default Method)

No. 10	:\ <b>¥8</b> 32 <b>(</b> User: D	-				
Modules T	Tools Optional	Configuration Manu	al Developer Help			
	tory (Edit Me				_	Inspection Criteria
	Part # CON-000		Part - Inventory	Revision		
Desc	CON, PCE	9 MOD JACKS		<u> </u>	Displayed Currency	BASE CURRENCY
Qt	tys \ Costs	Vendors	Sales Prices	Details 1	Details 2	QuickBooks®
	. ا	evel 1	Lev	al 2	. ا	vel 3
	Quantity	Price	Quantity	Price	Quantity	Price
	1	2.2500		0.0000	1	0.0000
	100	1.8000	0	0.0000	0	0.0000
		0.0000	0	0.0000	0	0.0000
	0	0.0000	Enter the Price Qt	y breaks for your o Level 1 customers		0.0000
	0	0.0000		evel 2 could be VA		0.0000
-		evel 4	Lev			
	Quantity	0.0000		Quantity Price Salesman		
					Commission %	0.00
			mmission based or			
			esman and Commi sion are automatic		Licensor	
		sales (	orders and invoices	·	Royalty Rate	0.00
	Delete			/alty Rates are au w sales orders an		Cancel
	Deigre		4		<sup>y</sup> ĸ	

**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 below.

The **Sale Price Quantity** fields (qtyl2-qtyl5, qtyl2a-qtyl5a, qtyl2b-qtyl5b, qtyl2c-qtyl5c, qtyl2d-qtyl5d, qtyl2e-qtyl5e,) contain the sales price quantity breaks for various levels (types) of customers.

The **Sale Price** fields (saleprice, salepric2-salepric5, salepriceb, salepric2b-salepric5b, salepric2c-salepric5c, etc.) 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.

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%.

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.

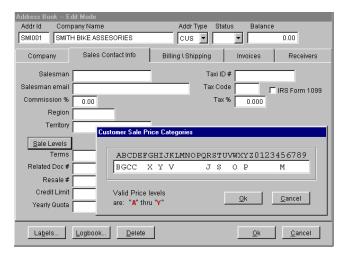
#### 5.1.3.8.2 Enter a New Part Number, Step 8.2, Enter Selling Prices (Option 2)

With this method, selecting the Sale Prices Tab will display the third page of the inventory data entry screen.

Inventory	(Edit Mode)							
Part	Part# 000000013 Type Part				Revision			
Descriptio	BOLTS		,					
Quantite	s \ Costs Ver	ndors	Sales Prices	Manufac	turers \ Models \ Al	t Parts	Miscelleneous	
ç	Salesman 🗌				Licensor	-		
	nission % 0.00	1			Royalty Rate			
		,			,,	0.00		
	Sale Price Catagory: B							
Level	Price	Level	Price	Level	Price	Level	Price	
A	5.0000	н	0.5000	0	0.0000	v	0.0000	
в	1000.0000	1	0.2500	Р	0.0000	w	0.0000	
c	5.0000	J	0.0000	Q	0.0000	×	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	T	0.0000			
G	9.0000	N	0.0000	υ	0.0000			
Del	ete		Log Book V	<u>V</u> here Use	ed	<u>i</u> k	<u>C</u> ancel	

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 Assembles', '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, customer's whose key assigns them level D pricing for B type parts would pay \$7.00 per part.

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.



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  $\mathbf{E}$  or  $\mathbf{F}$  in the address entry or if the sales price category is left bank in inventory the sales price will default to sales price level  $\mathbf{A}$ .

#### 5.1.3.9. Enter a New Part Number, Step 9, Enter Manufacturer and Manufacturer Part Number

E VFP - C:\V832 (User: DOUG)	🕒 VFP - C:\V832 (User: DOUG)
Modules Tools Optional Configuration Manual Developer Help	Modules Tools Optional Configuration Manual Developer Help
Inventory (Edit Mode) Click on Details 1 Tab	Inventory (Edit Directory Breaks imported from the
Part # 000000001 Type Det alls 1 Tab Revision Increction Criteria	Part # 000000 ? Do you want to insert Digi-Key price/quantity breaks into pc it vendors web site.
Description property and a 1 Extendion of the Low All and the	Description BEARIN
the Manufacturer's Price Lookup	Current Oty Current Price New Otys Now Prices
Otys \ Costs Vendore Details 1 Part Number oks®	Qtys 1 Costs 1.000 11.0000 5.5800 Books®
Manua cturers Mfg Part # vfodel Numbers)	10.000 6.0000 25.000 4.4600
1 Amp 555050-1	0.000 0.0000 100.000 3.5680
	0.000 0.0000 500.000 3.1220
A NoMatchy 🕐 Select the website to be Queried.	0.000 0.0000 5,000.000 2.6760
5 5GtyBrea 4. Select Vendor you wish	
6 C Eindchips.com	
	0.000 0.000 0.000
	0.000 0.0000 0.0000
2 C Mouser.com	0.000 0.0000 0.0000
	0.000 0.000 0.000
Image File: or Document Document 4 QK Cancel	Image File: 0.000 0.0000 0.0000
Crank_assents_ave5	Crank_assembly.jp; 0.000 0.0000 0. Click Yes, if you wish to save the
Imana Clear External Viewer 6 5. Press OK only be imported from	mage Clear 0.000 0.0000 0. vendor's price quantity breaks.
Arrow, Digi-Key and Mouser. Price/Qty	
Breaks are standard and	Yes No
Delete         Log Book         Part Status         Ok         Not customer specifie	CeleteCancel
■ VFP - C:\V832 (User: DOUG)	
always)	
Modules Tools Optional Configuration Manual Developer Hel	ip
Inventory (Edit Mode)	
Click on Vendors Tab	to see
Part # 000000001 T new Price Qty Bre	aks sion ABC Inspection Criteria
Description BEARING 3.000D × 1.00D	Displayed Currency BASE CURRENCY 💌
Qtys \ Costs Vendors Sales Prices	Details 1 Details 2 QuickBooks®
Misc: PO Ratio Po Unit Buyer Last V	/endor:
1.0000 POUNIT KIM	
Mandana	Vendor's BASE New Price Qty Breaks
Vendors	
ARROW ELECTRONICS	Quantity Price
↓ DIGFRET ELECTRONICS	1 5.5800
	25 4.4600
	100 3.5680
New Vendor Remove Vendor	500 3.1220
	1000 2.7875
	5000 2.6760
Vendor ID DIG001	
Vendor's Phone 980-112-1111	
300-12-111	
	Note: Vendor must exist
	in your Address Book
	Module to insert Price
Delete Log Book Part S	tatus <u>O</u> k <u>Qty Breaks.</u>

Selecting the 'Details 1' Tab will then display the fourth page of the inventory data entry screen as shown above.

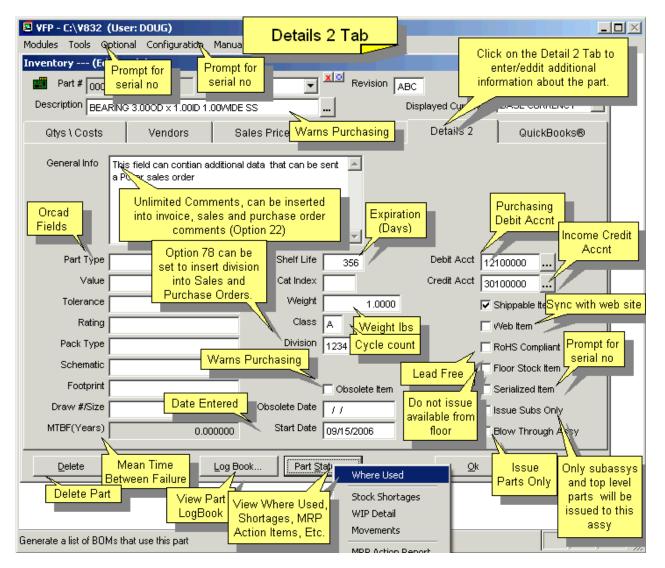
Enter **Manufacturers** (manufacter, mfg2-mfg9) and their respective **Model Numbers** (modelno, modelno2-modelno9) are self-explanatory.

The **Alternate Part Numbers** (altpart1 - altpart6) allow users to store up to six alternate part numbers that can be used in place of this part number. Option 54 in pc/MRP's configuration settings and utilities menu will set the alternate part numbers in inventory to update or not update the alternate part numbers in the BOM file.

If the manufacturing part number is distributed by **Arrow**, **Digi-Key** or **Mouser**, the standard price quantity breaks and vendor can be automatically inserted into the Vendor Price/Quantity Breaks provided the vendor (Arrow Electronics, Digi-key, Mouser Electronics, etc.) is listed in the Address Book. **NOTE:** If the prices returned are \$0.000000, then the part is probably a "Call for prices" item.

**NOTE:** With Arrow, Digi-Key, and Mouser features, 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.

# 5.1.3.10. Enter a New Part Number, Step 10, Enter Detail #2 Information



Selecting the 'Details 2' Tab will then display the fifth page of the inventory data entry screen as shown above.

The **Image File** (image\_file) field is used to store and display pictures of 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 labeled *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.xxxx.xxx)

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.

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 **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 **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.

pc/MRP uses the **Weight/Unit** (weight) field to insert the total weight of a shippable items into a UPS or Bill of Lading shipping document (labor for example is not a shippable item). If this is the **Net** weight, it is the "actual, computed, or estimated weight of a good without its container and/or packaging (tare). Gross weight less tare weight equals net weight." Ref: http://www.businessdictionary.com/definition/net-weight.html

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

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 insert the expiration date into that serial lot/number based on the date and the shelf life.

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. Parts that do not have an "A", "B", or "C", will be ignored. Settings & Utilities, Option 64 sets the default class for new parts. Therefore, to **not** include labor parts, you must remove the default Class code at the time of creating the Labor part number.

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.

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.

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

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 issuing, receiving, or invoicing for this part number.

To obsolete a part, check the **Obsolete Item** checkbox. The date field is automatically set to the current date (you may change this). This will display a warning if a part is marked as obsolete and it's obsolete date is <= the current date if you try to purchase it. 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.

The **Reliability Factor** (relfact) field (for parts) contains the number of parts per million that would fail in a one hour time period.

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 part numbers and then running the Cost and MTBF Roll Up option on the inventory menu. The MTBF option is available on pc/MRP versions 7.73 and higher.

Checking the **Issue Subs Only** Check Box (subonly) forces pc/MRP to issue sub-assemblies only when issuing this assembly. The Issue Subs Only Check Box is only visible for assemblies. The Issue Subs Only Check Box forces pc/MRP to issue sub-assemblies only for a top assembly or for sub-assemblies marked Issue Subs Only.

If a part is obsolete, check the **Obsolete** Check Box (Obsolete) and enter the date the part is to be obsolete, Obs. Date (obsdate). pc/MRP will display a warning message if a part is marked as obsolete and it's obsolete date is <= the current date if you try to purchase it. The obsolete parts will be highlighted in yellow in the scroll window.

Check the **RoHS Compliant** Checkbox if part is RoHS Compliant (lead free, etc.).

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, 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.

The **Delete** button allows the deletion of and existing part. Must run Remove Marked Records to remove parts marked for deletion from disk.

The **Logbook** button opens an ASCII text file where additional comments or instructions regarding the part may be recorded. 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.

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

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

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

pc/MRP for Windows - Version 8.04D		
Modules Tools Optional Configuration Man	Jal	_
Inventory — (Edit Mode)	If you want to specify unique account numbers for specific part numbers, edit the part number and click on the QuickBooks Tab.	tion Criteria
Description CON, PCB MOD JACK	S Displayed Currency 🗎	
	ales Prices M This is the equivalent QuckBook Part, which can be inserted direct from QB by clicking on this butto QuickBooks the new time are item to interest or recent	ily internet in the second
Inventory Id	CON-00001	
Cost of Goods Sold Account	Cost Of Goods Sold	7
Income Account	Business Income	Select any QB COGS
Asset/Expense Account	Inventory Asset	Account
Asset account for		set 🔺 🛋
If there are many parts that require unique account numbers, it may be faster to use the Part Mapper Button on the Default Settions Screen	Freight Expense Gross Wage Expense Operating Expenses Payroll Expenses from any QuickBooks Other Asset, Expense, Fixed Asset, set or Other Expense Account.	Select from any QuickBooks Income Acct, LongTerm Liability, OtherCurrLiability, or Other Income Account

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 Recievable Account is debited for the sale price

Whenever a receiver is exported to QuickBooks:

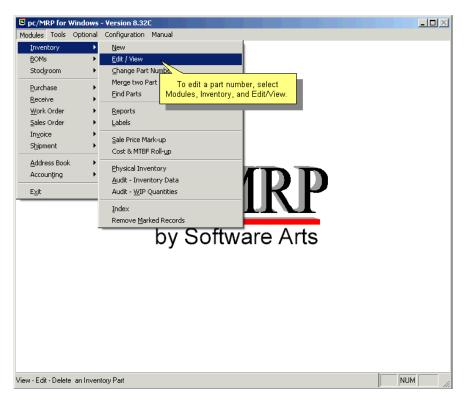
The Asset/Expense Account (QbAsset) is debited for the component cost of the product. The Default Accounts Payable Account is credited for the cost of the product

With pc/MRP Versions 8.15A and higher, clicking on the QuickBooks Tab is much faster than prior 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 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.

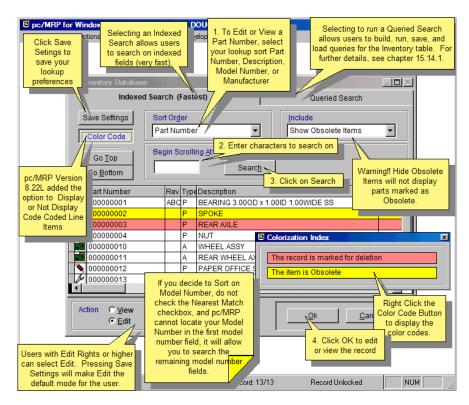
With pc/MRP Versions 8.17A and higher, pc/MRP's QuickBooks Accounting Fields were increased from 99 characters to 159 characters (QuickBooks own limit). This allows for multiple sub-accounts and larger account descriptions.

See chapter 16.16 in this manual for details on the implementing the QuickBooks Interface Module.

#### 5.1.4 Edit/View a Part Number



Click 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.

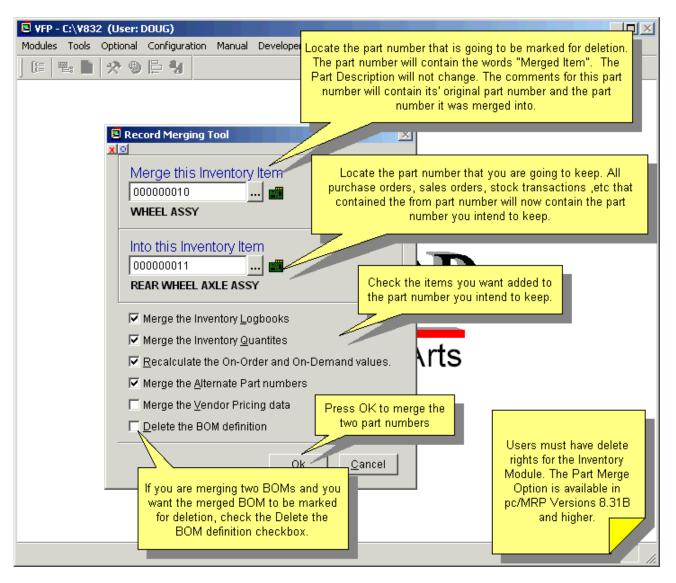
Within the inventory edit, screen users can also mark inventory items for deletion or unmark inventory items for deletion. (you must have "Action=Edit") If users press the delete or undelete button, pc/MRP will locate and mark

for deletion or un-deletion every occurrence of that part in every BOM. By pressing "OK",pc/MRP will then ask for permission to remove those records from disk for both the inventory and BOM database files. If you have a number of parts to mark for deletion and wish to save time, do not check the check boxes to remove marked records from the BOM or Inventory tables until you are finished marking inventory parts for deletion. Mark the remaining parts for deletion, and then on the last part number allow the program to remove the marked records from disk. If you determine you do not want to remove the marked records at this time, the partnumbers will be highlighted in red until deleted via the menu (Modules. Inventory (or BOMs), Remove Marked Records 5.15.1 & 12.1.16).

# 5.1.5 Change Part Number

This option will change the part number in both the Inventory Database File and the BOM Database File.

# 5.1.6 Merge Two Partnumbers Together



# 5.1.7 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**, for search on description and enter the letters **ELB**.

#### 5.1.8 Reports (Print/Display Inventory Reports)

VFP - C:\V794 (User: DOUG) Modules Tools Optional Configuration Manual	
Inventory Reports     All Parts Uncosted     All Parts Costed for a Model Number     All Parts Costed for a Buyer     All Parts Costed for a Part-Type Fle     Price List   Inventory Movement Report   Inventory Parts only   C Assemblies only   C Both Inventory Parts and Assemblies only   C Field I STORES   Is >   C A specific Catindex Code only   C A specific Class Code only   C A specific Suffix Code only	Sort by Description 3. Select Sort Send Report to Display 4. Select Display, Print, File, Etc. de © Standard O Custom CUSPAR01.FR 5. Select Std or Custom Qk Cancel 6. Press OK
	NUM

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 to create custom reports.

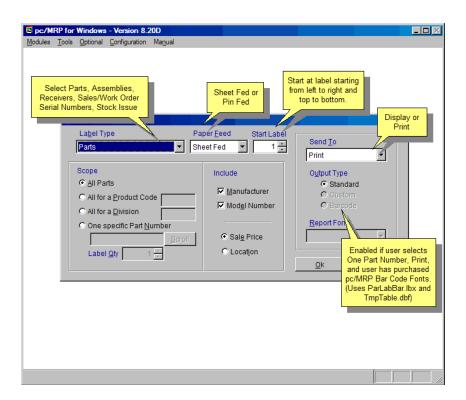
# **NOTE:** All parts un-costed for single areas are cuspart0-cuspart20.frx and are available for download at <u>http://www.pcmrp.com/invrpt.htm</u>

The **Inventory Movement Report** (*parmov.frx with movement.dbf, invmove.prg*) 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. The Initial and Ending Quantities will be calculated if the part number's last physical inventory date and last physical quantity fields are populated. If you check the include WIP Qtys checkbox, the WIP Otys from the last Physical Inventory will be taken into account when calculating initial quantities. This report can back calculate to the initial quantity if the physical inventory was taken after the report's start date. These two fields are automatically populated when you take a physical inventory or you enter the quantity when the part number is initially entered into inventory. The Inventory Movement Report has the following columns, part number, initial quantity, received quantity, adjusted quantity, invoiced quantity, issued quantity, and ending quantity. The initial quantity column will display the word "Unavailable" if the initial qty cannot be displayed due to the lack of a physical inventory count. A "\*" will be displayed next to the initial qty if the part's initial gty had to be back calculated to a date prior to the date the last physical inventory was taken. 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. The Inventory Movement report also includes both inventory and non-inventory items.

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.

# 5.1.9 Labels (Print Part 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.

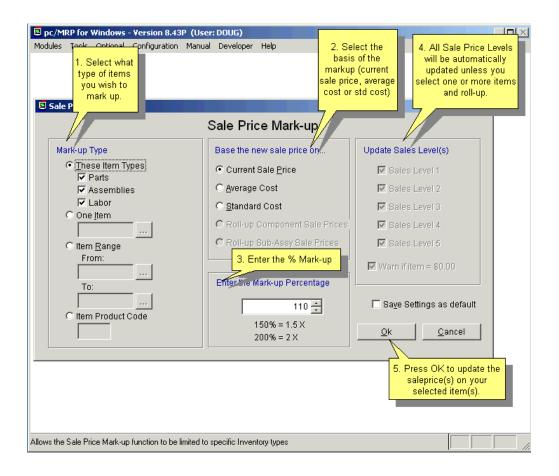
You can create custom labels by reviewing section 15.4.2.20 of this manual and using *Configuration Utility, option 24*.

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.

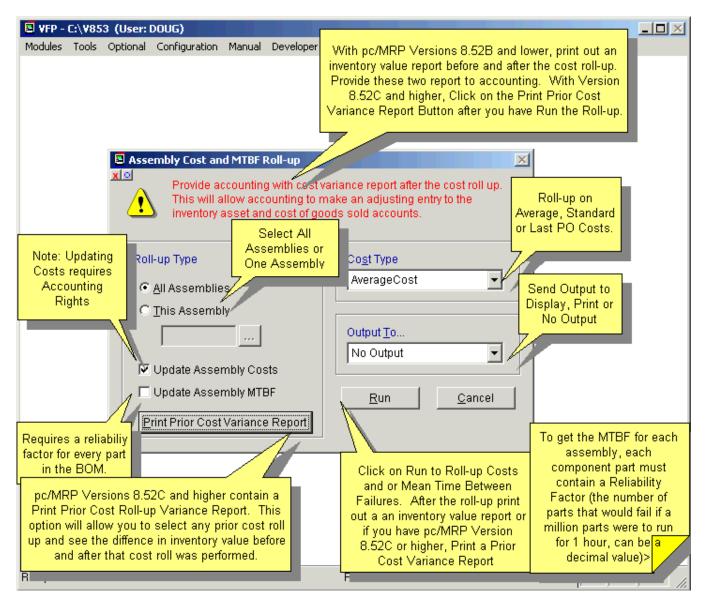
#### 5.1.10 Sales Price Markup

Automatically mark up every part's sale price by a specified % of each parts current cost or sales price.

🗧 pc/MRP fo	r Windows	- Version 8.43	P (User:	DOUG)		
Modules Tools	s Optional	Configuration	Manual	Developer	Help	
Inventory	•	New				
<u>B</u> OMs	•	<u>E</u> dit / View				
Stockroom	+	<u>⊂</u> hange Part	Number			
Purchase	•	-	art Numb	ers together		
– Receive	+	<u>F</u> ind Parts				
— <u>W</u> ork Order	•	<u>R</u> eports				
<u>S</u> ales Order	• •	Labels				
In <u>v</u> oice	+	Sale Price Ma	ark-up			
S <u>h</u> ipment	•	Cost & MTBP	<u> </u>			
<u>A</u> ddress Bo	ok 🕨 🕨	Physical Inv	entory			To mark up sales prices, select
Accounting	+	Audit - Inver		a		Inventory and Sale Price Mark-up
E <u>x</u> it		Audit - WIP				
			•			
		Index				landa wata
		Remove <u>M</u> ar	ked Reco		_	
			bv	$\prime So$	ftw	are Arts



# 5.1.11 Cost and MTBF Roll Up



The "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. **This** roll-up selection will not roll-up the sub-assembly's costs to the sub-assembly; it will use the cost of the sub-assembly from the inventory module.

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 enter/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 Enter/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). Option 47 can be set to allow only users with accounting rights to perform cost rolls ups.

The "Cost Type" drop down list box allows users to roll up average, standard or last PO costs.

The "Output To" drop down list box allows users to send the report to "Display", "Print" or "None".

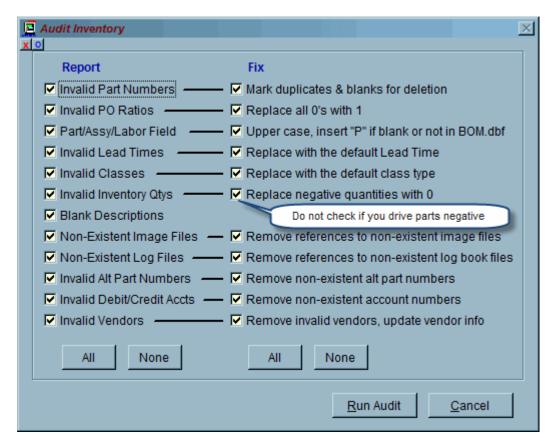
The MTBF option is available on pc/MRP versions 7.73 and higher. The mean time between failures is calculated as follows:

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 Miscellaneous Tab for each part.

# **5.1.12** 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 floor (WIP). See the Physical Inventory Section of this manual (6.1) for a more complete description of the Physical Inventory and Cycle Count Programs.

# 5.1.13 Audit-Inventory Data



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 it finds duplicate part numbers, it will mark the second part number for deletion. The program will continue searching the inventory database file for additional duplicate part numbers until it has marked all duplicate part numbers for deletion. The program will then remove pc/MRP V8.50

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.

# 5.1.14 Audit-WIP Quantities

pc/MRP's Audit WIP Option allows users to correct the WIP Quantity Fields displayed in the Inventory Module to equal the quantity in WIP as per the stockroom issue records. The WIP Quantity may be off because somebody edited this field or they edited a stockroom record without editing this field in the inventory module. This option allows you to display the WIP Variance Report (WIPVAR.FRX) which 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. In addition this report allows you to correct the WIP quantities (change the quantities in the WIPQTY Fields to equal the quantities based on the stockroom issue records).

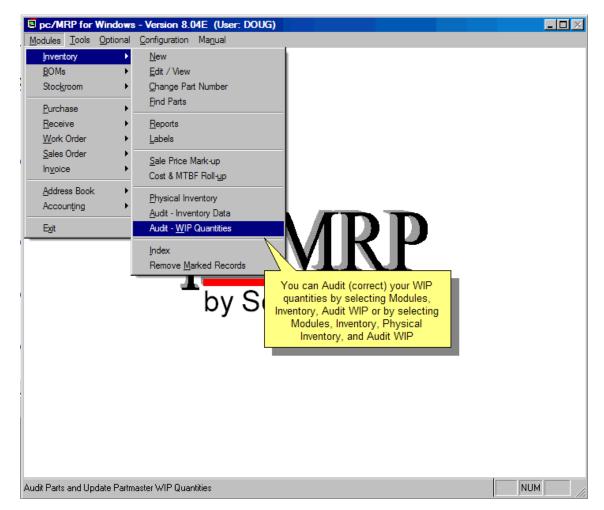
This report will only print or display open sales or work orders if it is not complete (the complete field does not contain a "Y"), the order was issued (in the stockroom there is an ISSTM record), and, the quantity issued is greater than the quantity returned.

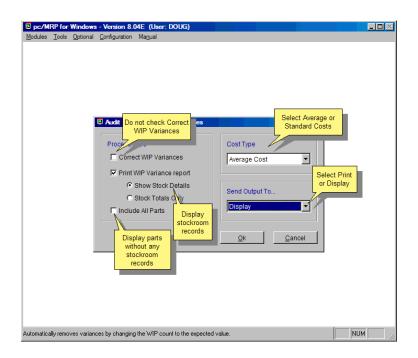
An online slideshow is located here: http://www.pcmrp.com/mrp101/auditwiprun.htm

To audit and correct WIP quantities follow the steps shown below:

# 5.1.14.1 Audit-WIP Quantities – Step 1

Run Audit WIP by selecting Modules, Inventory, Audit WIP or Physical Inventory.





Do not select Correct WIP Variances as we want to just see what sales and work orders are out on the manufacturing floor (WIP). Once we see what sales and work orders are on the floor, we will adjust WIP quantities by issuing additional sales and work orders to the floor and by receiving back sales and work orders from the manufacturing floor.

# 5.1.14.3 Audit-WIP Quantities – Step 3

<u>M</u> odules <u>T</u> o	ools <u>O</u> ptic <b>eview - W</b>	W	The initial report of orders (101, 102 Stockroom Record	2, and 105) the Is show are cu	at pc/MRP's urrently in WIP.	is not on the ma but is listed here to receive it back Receive the sale	es/work order 101 anufacturing floor , somebody forget to manufacturing, s/work order back n slide 4.
so\wo #	ITEM	STOCK TRANS #	QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	RRENT WIP QTY (PARTMAST)	VARIANCE
PART NU	JMBER:	000000001	BEAF	ING 3.000D	x 1.00ID 1		
000101	0001	000001	10.0000	0.0000	10.0000		
000102	0001	000005	16.0000	0.0000	16.0000		
000105	0001	000007	1.0000	0.0000	1.0000		
			**	TOTALS **	27.0000	35.0000	8.0000
PART NU	JMBER:	000000002	SPOR	æ			
000101	0001	000002	400.0000	0.0000	400.0000		
000102	0001	000006	640.0000	0.0000	640.0000		
000105	0001	800000	40.0000	0.0000	40.0000		
			**	TOTALS **	1080.0000	1300.0000	220.0000
PART NU	JMBER:	000000003	REAR	AXLE			
000102	0001	000003	10.0000	0.0000	10.0000		
			**	TOTALS **	10.0000	10.0000	0.0000
PART NU	JMBER:	000000010	WHEE	L ASSY			
000102	0001	000004	4.0000	0.0000	4.0000		
			**	TOTALS **	4.0000	4.0000	0.0000
₁ }pt_data	manufact forgot t	turing floor but to issue it to m	vork order 106 is not listed here, so anufacturing. Isso s shown on slide 5	omebody Je it to	EOF/8 Re	cord Unlocked	

Make a list of sales and work orders pc/MRP is reporting as being on the manufacturing floor from the WIP Variance Report (WIPVAR.frx) report shown above..

	r Windows - Version 8.04E (User: DOUG) s Optional Configuration Manual						
	Select stock transaction process						
	O [ - issue parts only for an assy(s) infinite levels deep to mfg						
	C L - issue additional parts not listed in the BOM, or breakage. (not for makeup shortage)						
	C M - issue individual Makeup or shortage parts to mfg						
	C P - issue multiple make-up shortages from a single inventory area						
	C E - issue multiple make-up shortages to mfg automatically						
	C S - issue parts or assemblies to Shipping. (DO NOT use this option if you invoice)						
	C B - transfer parts Between inventory storage areas						
	<u>R</u> - Receive completed assemblies from mfg and Back Flush consumed component parts     U - receive Unused returned parts from mfg (neg is ve)						
	C V - receive onused retained parts from mig (neg ist de)						
	C A - Adjust inventory onhand qtys Receive back all sales/work orders that a						
	C T - reTurn all parts/assys issued to a sales/work of actually on the manufacturing floor. F						
	example, if sales order 101 is not on the	he					
	manufacturing floor, receive it back as com assemblies from manufacturing.	npleted					
	<u>QK</u> <u>C</u> assemblies from manufacturing.						
-							
	NU	IM .					

Remove any sales/work orders that are not actually on the manufacturing floor by selecting Modules, Stockroom, New, Receive completed assemblies back from manufacturing.

# 5.1.14.5 Audit-WIP Quantities – Step 5

Del 10	Vindows - Version 8.04E (User: DOUG)						
Modules Loois	Optional Configuration Ma <u>n</u> ual						
Sel	lect stock transaction process						
	I - issue parts only for an assy(s) infinite levels deep to mfg						
	○ L - issue additional parts not listed in the BOM, of treakage. (not for makeup shortage)						
	C M - issue individual Makeup or shortage parts to mf						
	C P - issue multiple make-up shortages from a since structure in the manufacturing floor but not shown in the manufactu						
	original report. For example, if sales order 1	106 is					
	C B - transfer parts Between inventory storage are report, issue it to the manufacturing floor but not o						
	© R - Receive completed assemblies from mfg and	··					
	$\underline{C}\underline{U}$ - receive Unused returned parts from mfg (neg issue)						
	○ <u>V</u> - receive parts from ReceiVing						
	C A - Adjust inventory onhand qtys						
	C I - reTurn all parts/assys issued to a sales/work order						
QK <u>C</u> ancel							
	NL	JM //					

If there are any sale/work orders that are on the floor but not on the report, select Modules, Stockroom, New and Issue parts for a sales or work order for every sales order or work order that should be on the report.

# 5.1.14.6 Audit-WIP Quantities – Step 6

	fersion 8.04E (User: DOUG)	_ 🗆 🗵
Modules Iools Optional Con		
Select the COst type to use on the	wIP Variance report when calculating the variance value.	

Once the report is correct, run Audit WIP one last time, this time, check the Correct WIP Variances Check Box.

# 5.1.14.7 Audit-WIP Quantities – Step 7

t Print Pri I d		▶ ▶I 100%	• • •				. <mark>   ×</mark>
DATE: 1	.0/19/2		P VARIAN	CE REPO	RT (WIPV	AR.FRX)	
so\wo #	ITEM	STOCK TRANS #	QUANTITY ISSUED	QUANTITY RETURNED	CORRECT WIP QTY (STOCKRM)	CURRENT WIP QTY (PARTMAST)	VA
PART NU	MBER:	000000001	BEARI	ING 3.000D 3	( 1.00ID 1		
000102	0001	000005	16.0000	0.0000	16.0000		
000105	0001	000007	1.0000	0.0000	1.0000		
			**	TOTALS **	17.0000	25.0000	
PART NU	MBER:	000000002	SPORE	s 🔪			
000102	0001	000006	640.0000	000	640.0000		
000105	0001	800000	40.0000				
000102 000106	0001 0001	000000003 000003 000011	** REAR 10.0000 1.0000 ** WHEEL	work o manufacturin correct and a WIP Quant sales order and sale	port should conta rders that are ac g floor. The WIP re reflected as su tity Fields. Notic 101 is no longer s order 106 is in	tually on the quantities are n uch in the Invent e in our example in manufacturing	ow ory
000102	0001	000004	4.0000	-L	-		
000102	0001	000012	2.0000	0.0000	2.0000		
							•

The report should now display the correct sales/work orders on the manufacturing floor along with the correct WIP quantities. Since you selected Correct WIP Quantities, the WIP Quantity Fields in the Inventory File will be correct as after the report is printed or displayed. Reprinting the report again would show no variance between the stockroom WIP Quantity and the Inventory (Partmast) WIP Qty.

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.

If you select the "Correct WIP Variances" option, pc/MRP will correct the WIP quantities in inventory as per the following pseudo code:

Once WIP is correct, you can run a physical inventory on the stores area(s) and correct the quantities for that area (do not include WIP quantities as they have already been corrected at this point).

As a precaution, always select "Include all parts" if you are looking for a dollar variance and are using pc/MRP version 8.20L or lower.

The inventory WIP quantity will be higher than the Audit WIP quantity if you issue parts to a sales/work order and then manually close that sales/work order without returning completed assemblies. In addition, the inventory WIP quantity may not match the Audit WIP quantity if a person edits the WIP quantity or stockroom records.

#### 5.1.15 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 number 4.
- The last physical inventory was taken prior to the date being reported.
- The inventory adjustments were made using the stock room module' adjustment option rather than editing the quantity in the inventory module.
- The stockroom's Issue and Receive options were used rather than the convert parts to assemblies.

#### 5.1.16 Index (see 15.14.3)

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

# 5.2 pcMRP Inventory Flow Model

### **5.2 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 clarified using a company that builds bicycles as an example. 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 printed out an invoice (not a sales order) and decreased the on hand quantity of the bicycle in inventory by 500 (as the bicycles would have then been carried out of the plant).

Purchasing would 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 part master. 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.

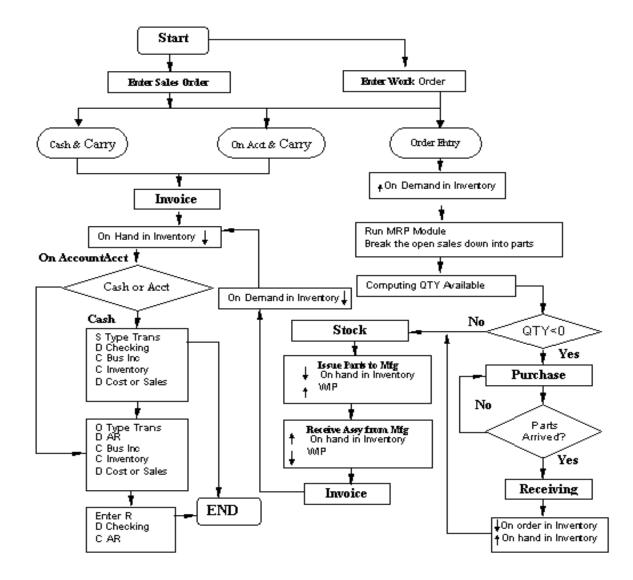
The Stock Room Module is used to convert the parts into assemblies by either issuing parts to manufacturing and then receive assemblies from manufacturing (2 steps) or converting parts to assemblies (1 step).

The first option 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.

The second option, "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.

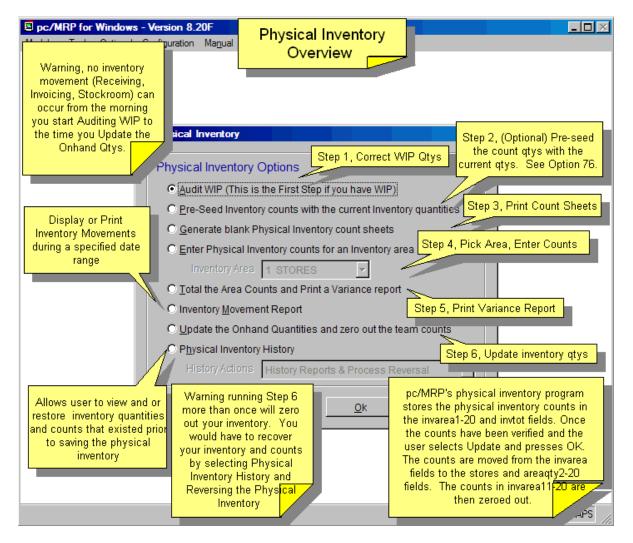
# The following flow chart describes each step.



# **6 Physical Inventory and Cycle Count Module**

#### 6.1 Overview

Selecting the option, "Physical Inventory" in the Inventory Menu will allow that module to be selected. If the Physical Inventory option is selected, the Physical Inventory Menu shown below will appear.



# 6.1.1 Audit WIP

WIP stands for Work In Process on the manufacturing floor. 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 section 5.1.13 for instructions and an overview of this function. (See on-line slide show at: http://www.pcmrp.com/mrp101/auditwiprun.htm)

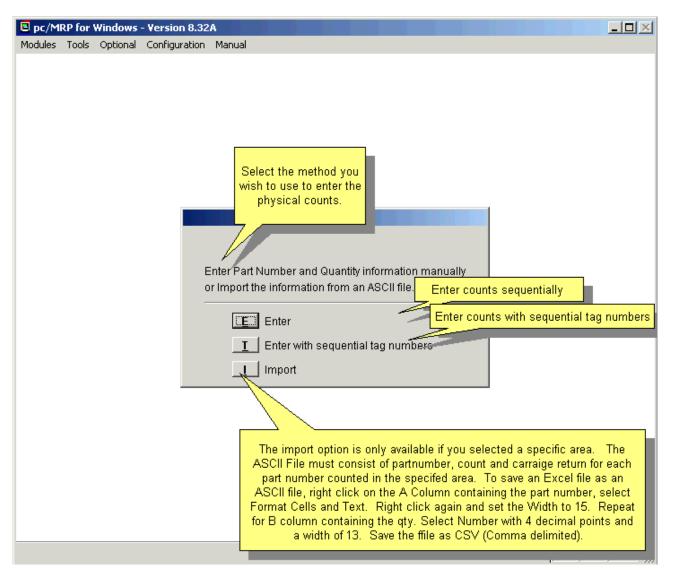
#### 6.1.2 Pre-seed Physical Inventory

This option appears on the above screen in pc/MRP Versions 7.94 and higher. This 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 only function if all team counts in all inventory areas are zero. If all team counts are zero, and this option is set to yes, when a user selects to enter a team count quantity for the first time in areas 1-20, the pre-seed option will be activated.

#### 6.1.3 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. It is important to remember that each team takes inventory in its own area and not the area of another team as this would result in a double count of the same items. Both areas can contain parts with the same part numbers as in the other areas. 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 5.1.18) prior to entering the physical inventory in stores.

# **6.1.4 Enter Physical Inventory Count**



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**. If you select to enter the count from an ASCII file, the ASCII 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.

**NOTE:** Versions 8.00 and lower have only 6 stores areas. Versions 810 to 832A have 11 stores areas. Versions 8.40 and higher have 20 stores areas.

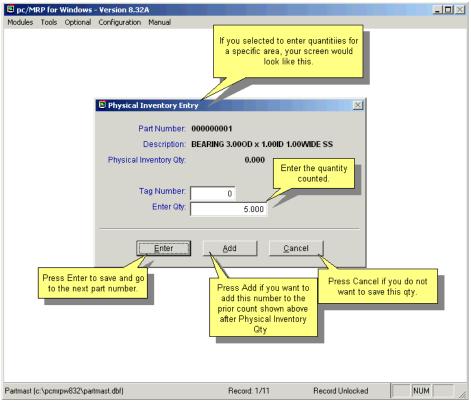
Please see chapter 16.4.3 & 4 to create ASCII files using a BarCode reader. If you select to enter the counts manually, pc/MRP will prompt you to enter the counts in the order you selected (by part number or by location). In either case, the counts are entered into the inventory invarea1 through invarea20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

If you elect 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. Please note that if errors occur, please print the report. The error import counts will still be replaced or appended as you selected.

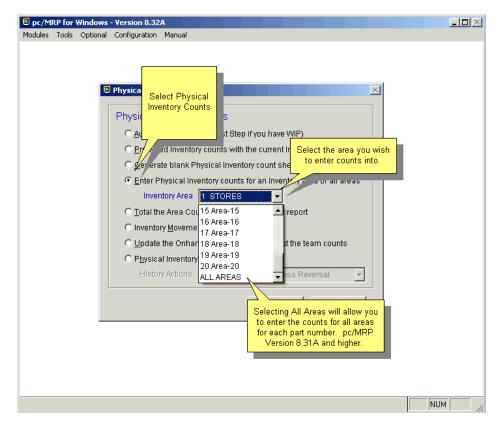
When entering your first area count, pc/MRP versions 7.54 to 7.93 will determine if it can pre-seed the inventory counts with the current inventory quantities and ask users if they wish continue (Option 76 in the Settings and Utilities must be set to YES). If any team count quantities are greater than zero, the team counts will not be pre-seeded. You will not see a progress bar indicating that it is pre-seeding the counts. This could happen if one or more counts were accidentally entered during a prior date without completing the physical inventory (update). If that is the case the counts (invarea1 – invarea20) can be zeroed out by calling Software Arts. pc/MRP versions 7.94 and higher have a pre-seed button as described in 6.1.2.

pc/MRP versions 8.31A and higher allow the entry of one area at a time or all areas as noted in the following screens:





#### **ALL AREAS:**



#### 6.1.5 Total The Inventory Counts And Print 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.

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.

# 6.1.6 Update The Onhand Quantity 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 Inventory 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. As of pc/MRP Versions 7.01L and 7.02Q and higher, the Update option will only run if the user has inventory delete rights (provided the password module has been activated).

#### 6.1.7 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 versions 6.82AG, 6.80AE, 6.87D, and higher 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.

#### 6.1.8 Physical Inventory History

pc/MRP version 7.50F and higher have a Physical Inventory History Option. Selecting this option will bring up a screen with the following screen.

2	Physical Inventory	×					
Г		7					
	Physical Inventory Options						
	C Audit WIP (This is the First Step if you have WIP)						
	C Pre-Seed Inventory counts with the current Inventory quantities						
	O Generate blank Physical Inventory count sheets						
	C Enter Physical Inventory counts for an Inventory area or all areas						
	Inventory Area 1 STORES						
	O Total the Area Counts and Print a Variance report						
	O Inventory Movement Report						
	O Update the Onhand Quantities and zero out the team counts						
	Physical Inventory History						
	History Actions History Reports & Process Reversal						
L	History Reports & Process Reversal						
	Index the History table						
	Remove History records over X years old						

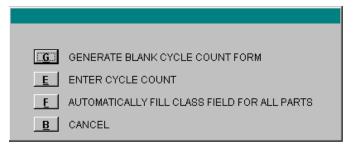
Selecting History Reports & Process Reversal will display all prior physical inventories. You can then display, print, and/or restore past physical inventories. This option will restore the last physical inventory quantities, date, team counts, and areas 1-20 quantities as they were just prior to when 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.

	Physical Inventory History						
X	o Date	Time	User		Storage Area Grouping		
	01/06/2001 04/06/2001 07/05/2001 07/09/2001 09/21/2001 09/21/2001 08/01/2002 08/01/2002 08/01/2002	09:13:48 21:56:02 17:12:07 15:16:39 15:18:02 10:15:59 10:16:37 10:18:13	RON RICK MARTHA RON RON KIM KIM KIM	*	Storage Area Grouping Storage areas <u>1</u> thru 7 Storage areas <u>8</u> thru 14 Storage areas <u>15</u> thru 20 Include <u>W</u> IP quantities on report Sort Report By Part Number		
	08/27/2002 03/01/2004	12:01:34 10:52:32	KIM KIM Physical Inventory	¥	Send Report to Display Report Type Standard C Custom		
					<u>O</u> k <u>C</u> ancel		

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

## 6.1.9 Cycle Count Options

Selecting the Cycle Count Option will display the menu below:



## 6.1.10 Generate Blank Cycle Count Forms

Generates a blank Physical Cycle Count Form. The form will contain 1/20th of all of the class A parts, 1/60th 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. 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", will be ignored. Settings & Utilities, Option 64 sets the default Class for new parts. Therefore, to not include labor parts, you must remove the default Class code at the time of creating the Labor part number.

**NOTE:** A partnumber may occur on consecutive cycle count forms if there are changes in the number of partnumbers in the inventory database (partmast,dbf).

## 6.1.11 Enter Cycle Count

Allows users to rapidly enter the cycle counts into the inventory ONHAND QUANTITY field for each part number counted. The counts may be entered manually or imported from a comma delimited ASCII file. The ASCII file must have the part number and quantity as the first two data elements within the file. Any additional data elements will be ignored. Please see chapter 16.4.3 & 4 to create ASCII files using a BarCode reader.

This option also allows you to enter the count for each part number for all areas in one screen. pc/MRP stores the new quantities in the stores areas (onhand, area2qty-area20qty, and wipqty). In addition, pc/MRP also updates the last physical date and quantity fields (lastphydate, lastqty1-lastqty20, lastqtywip) 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.

## **6.1.12 Enter Differential Cycle Counts**

With pc/MRP version 8.14F and higher, users can use **Configuration, Settings & Utilities, Option 20** to set pc/MRP to accept either '**Full**' or 'Differential' Cycle Counts.

🛄 pc/MRP for Win	dows - Versi	on 8.32D (User: R	ichard)				_	
Modules Tools	Optional	Configuration	Manual Dev	veloper Help				
<u>I</u> nventory	•	<u>N</u> ew						
<u>B</u> OMs	•	<u>E</u> dit / View						
Stoc <u>k</u> room	· •	<u>C</u> hange Part Num	iber					
Burchano	I	Mer <u>g</u> e two Part N	umbers togeth	her				
Purchase Beceive		Eind Parts						
<u>R</u> eceive Werk Order		Denerte		Inventory Co	unts 🔿			
Work Order		<u>R</u> eports			2			
Sales Order		<u>L</u> abels		🕐 🛚	/hich Inventory	counting proce	ess do you wai	nt?
In <u>v</u> oice Shiamant		Sale Price Mark-	up					_
S <u>h</u> ipment		Cost & MTBF Rol	<b>-</b> р	E. I. Dhu	- to at the sector of the sect	Differentia		-
<u>A</u> ddress Book	•	Dhumical Inventor		Full Phy	sical Inventory	Differentia	al <u>C</u> ycle Count	
Accounting	• • • • • • • • • • • • • • • • • • •	<u>P</u> hysical Inventor <u>A</u> udit - Inventory						
Ewit		Audit - <u>W</u> IP Quan			7 1 7			
Exit		Audit - <u>w</u> ir Quali	uues					
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		Remove <u>M</u> arked I						
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				Select: O G	enerate a blank	Differential Cu		
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Manually Audit and Up	date Inventory	y quantities					NUM	
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		on 8.32D (User: Ri Configuration		reloper Help			_1	
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				reloper Help			_	
				reloper Help				
Modules Tools	Optional -			reloper Help		×		
Modules Tools	Optional -	Configuration	Manual Dev			X		
Modules Tools	Optional	Configuration tial Cycle Counts CAUTION: Dil	Manual Dev Terential Cy	cle Counts		×		
Modules Tools	Optional -	Configuration tial Cycle Counts CAUTION: Dil	Manual Dev Terential Cy		punt quantity	×		
Modules Tools	Optional	Configuration tial Cycle Counts CAUTION: Dif Enter the differen	Manual Dev ferential Cy ce between pc	cle Counts MRP qty and the co		×		
Modules Tools	Optional	Configuration tial Cycle Counts CAUTION: Did Enter the differen If counted qty wa	Manual Dev ferential Cy ce between pc s greater than t	cle Counts	er a positive qty.	X		
Modules Tools	Optional	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa	Manual Dev ferential Cy ce between po s greater than the s less than the	cle Counts MRP qty and the cr he pc/MRP qty enter pc/MRP qty enter a	er a positive qty. negative qty.			
Modules Tools	Optional	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa	Manual Dev ferential Cy ce between po s greater than the s less than the	cle Counts MRP qty and the cr he pc/MRP qty ente	er a positive qty. negative qty.			
Modules Tools	Optional	Configuration	Manual Dev ferential Cy s greater than the s less than the e a stockroom a	cle Counts MRP qty and the cr he pc/MRP qty enter pc/MRP qty enter a	er a positive qty. negative qty. d adjust onhand qt			
Modules Tools	Optional	Configuration	Manual Dev ferential Cy s greater than the s less than the e a stockroom a	<b>cle Counts</b> MRP qty and the co he pc/MRP qty enter pc/MRP qty enter a udjusting record and	er a positive qty. negative qty. d adjust onhand qt			
Modules Tools	Optional	Configuration	Manual Dev ferential Cy s greater than the s less than the e a stockroom a	<b>cle Counts</b> MRP qty and the co he pc/MRP qty enter pc/MRP qty enter a udjusting record and	er a positive qty. negative qty. d adjust onhand qt			
Modules Tools	Different	Configuration	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples®	cle Counts MRP qty and the co he pc/MRP qty enter adjusting record and Hanging File Folder Quantities	er a positive qty. negative qty. d adjust onhand qt s	y. Quantities		
Modules Tools	Optional Different Optional Part # 60 STORES	Configuration	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples® RMA	cle Counts MRP qty and the co he pc/MRP qty enter a djusting record and Hanging File Folder Quantities 0.000	er a positive qty. I negative qty. d adjust onhand qt s Area-15	y. Quantities 0.000		
Modules Tools	Optional Different Different STORES TEST/MRB	Configuration Utal Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 0000003 Quantities 0.000 0.000	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples® RMA STAGING	cle Counts MRP qty and the cr he pc/MRP qty enter pc/MRP qty enter a idjusting record and Hanging File Folder Quantities 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-16	y. Quantities 0.000 0.000		
Modules Tools	Optional       Different       Image: Constraint of the second seco	Configuration Utal Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 0000003 Quantities 0.000 0	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples® RMA STAGING SCRAP	cle Counts MRP qty and the co the pc/MRP qty enter pc/MRP qty enter a idjusting record and Hanging File Folder Quantities 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-16 Area-17	y. Quantities 0.000 0.000 0.000		
Modules Tools	Optional Different Part # 60 STORES TEST/MRB R&D DEMO	Configuration Utal Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 0000003 Quantities 0.000 0.000	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples® RMA STAGING SCRAP RESERVED	cle Counts MRP qty and the cr he pc/MRP qty enter pc/MRP qty enter a idjusting record and Hanging File Folder Quantities 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-16	y. Quantities 0.000 0.000		
Modules Tools	Optional       Different       Image: Constraint of the second seco	Configuration Utal Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 0000003 Quantities 0.000 0	Manual Dev ferential Cy ce between pc s greater than t s less than the e a stockroom a Staples® RMA STAGING SCRAP	cle Counts MRP qty and the co the pc/MRP qty enter pc/MRP qty enter a idjusting record and Hanging File Folder Quantities 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-16 Area-17	y. Quantities 0.000 0.000 0.000		
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Modules Tools	Optional Different Part # 60 STORES TEST/MRB R&D DEMO INCOMP ENGINEER	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 00000003 Quantities 0.000	Manual     Dev       ferential Cy       cc     between pcc       s greater than t       s less than the       e a stockroom a       Staples®       RMA       STAGING       SCRAP       RESERVED       Area-12       Area-13	cle Counts MRP qty and the cr he pc/MRP qty enter adjusting record and Hanging File Folder Quantities 0.000 0.000 0.000 0.000 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-15 Area-16 Area-17 Area-18 Area-20 Area-20	y. Quantities 0.000 0.000 0.000 0.000 0.000		
Modules Tools	Optional Different Part # 60 STORES TEST/MRB R&D DEMO INCOMP ENGINEER	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 00000003 Quantities 0.000	Manual     Dev       ferential Cy       cc     between pcc       s greater than t       s less than the       e a stockroom a       Staples®       RMA       STAGING       SCRAP       RESERVED       Area-12       Area-13	cle Counts MRP qty and the cr he pc/MRP qty enter adjusting record and Hanging File Folder Quantities 0.000 0.000 0.000 0.000 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-15 Area-16 Area-17 Area-18 Area-20 Area-20	y. Quantities 0.000 0.000 0.000 0.000 0.000		
Modules Tools	Optional Different Part # 60 STORES TEST/MRB R&D DEMO INCOMP ENGINEER	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 00000003 Quantities 0.000	Manual     Dev       ferential Cy       cc     between pcc       s greater than t       s less than the       e a stockroom a       Staples®       RMA       STAGING       SCRAP       RESERVED       Area-12       Area-13	cle Counts MRP qty and the cr he pc/MRP qty enter adjusting record and Hanging File Folder Quantities 0.000 0.000 0.000 0.000 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-15 Area-16 Area-17 Area-18 Area-20 Area-20	y. Quantities 0.000 0.000 0.000 0.000 0.000		
Modules Tools	Optional Different Part # 60 STORES TEST/MRB R&D DEMO INCOMP ENGINEER	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 00000003 Quantities 0.000	Manual     Dev       ferential Cy       cc     between pcc       s greater than t       s less than the       e a stockroom a       Staples®       RMA       STAGING       SCRAP       RESERVED       Area-12       Area-13	cle Counts MRP qty and the cr he pc/MRP qty enter adjusting record and Hanging File Folder Quantities 0.000 0.000 0.000 0.000 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-15 Area-16 Area-17 Area-18 Area-20 Area-20	y. Quantities 0.000 0.000 0.000 0.000 0.000		
Modules Tools	Optional Different Different STORES TEST/MRB R&D DEMO INCOMP ENGINEER QC HOLD	Configuration tial Cycle Counts CAUTION: Dif Enter the differen If counted qty wa If counted qty wa pc/MRP will creat 00000003 Quantities 0.000	Manual     Dev       ferential Cy       cc     between pcc       s greater than t       s less than the       e a stockroom a       Staples®       RMA       STAGING       SCRAP       RESERVED       Area-12       Area-13	cle Counts MRP qty and the cr he pc/MRP qty enter adjusting record and Hanging File Folder Quantities 0.000 0.000 0.000 0.000 0.000 0.000 0.000	er a positive qty. negative qty. d adjust onhand qt s Area-15 Area-15 Area-16 Area-17 Area-18 Area-20 Area-20	y. Quantities 0.000 0.000 0.000 0.000 0.000 0.000		

With Differential Cycle Counts, the user enters the difference (actual minus what pc/MRP has recorded as being in inventory). 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.

## 6.1.13 Automatically Fill Class Fields for All Parts

Discrimination of the second s	ows - Version 8.32D (User: RICHARD)
Modules Tools (	Optional Configuration Manual Developer Help
<u>I</u> nventory <u>B</u> OMs Stoc <u>k</u> room	New       Inventory Counts         Edit / View       2         Change Part Number       ?         Which Inventory counting process do you want?
<u>P</u> urchase <u>R</u> eceive	
<u>W</u> ork Order <u>S</u> ales Order	
In <u>v</u> oice S <u>h</u> ipment	Sale Price Mark-up Cost & MTBF Roll-up
<u>A</u> ddress Book Accoun <u>t</u> ing	Physical Inventory     O       Audit - Inventory Data     Select:   C Generate a blank Cycle Count Form
Exit	Audit - <u>WIP Quantities</u> C Enter Cycle Counts C Automatically fill class for all parts
	Index Remove Marked Records
	by Softwai
	Enter the Dollar(\$) amount used/week for class "A" parts.
Manually Audit and Upda	ate Inventory quantities NUM

This selection will ask you to enter the dollar amount used per week to classify a part as a class 'A' part. pc/MRP will then automatically determine the class of each part based on cost and usage.

If the cost of a part is greater than \$4.99 **OR** its (cost X usage/week) exceeds the dollar amount you entered above, it will become a class 'A' part.

If the cost of a part is less than \$5.00 **AND** greater than \$0.49 **AND** its (cost X usage/week) is less than the dollar amount you entered above, it will become a class '**B**' part.

If the cost of a part is less than \$0.50 **AND** its (cost X usage/week) is less than the dollar amount you entered above, it will become a class 'C' part.

# 7 Purchasing Module

VFP - C:\V794 (User			_ 🗆 🗵
Modules Tools Optional	<u>C</u> onfiguration Ma <u>n</u> ual		
Inventory			
Stockroom			
Purchase	New		
Receive	Edit / View		
Work Order	 Duplicate a PO	To enter a new purchase order, select	
Sales Order	Print	Modules, Purchase and New.	
In <u>v</u> oice	<u>R</u> eports		
Address Book	Return to <u>V</u> endor		
Accounting	Audit Onorder <u>Q</u> uantities		
Exit	PO <u>L</u> ogbook		
	Index		
	- Remove <u>M</u> arked Records		
	Remove over <u>X</u> Years		
	by S	oftware Arts	
	<i>b</i> , <i>c</i>		
Create a New Purchase Orde	er		NUM

# 7.1.1 Overview

The Purchasing Module allows users to enter, edit, and print out Purchase Orders and reports. In addition reports can be sent to disk and POs can be emailed and or faxed directly from the PC. Address and part number information can be scrolled and imported from their respective modules. Entering a PO automatically increments the on order quantity in the Inventory File. 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: http://www.pcmrp.com/mrp101/purchasenew.htm

## 7.2.1 Enter a new purchase order step 1, select Purchase, New

From the Main Menu shown above, select "**Purchase**" and "New". The PO Data Entry Screen shown below will appear with the next available PO number and Date as shown below on the following page. You can overwrite the PO number with your own PO number. However, the PO number should consist of only numeric characters with leading zeros. pc/MRP is unable to increment alpha characters. You can prevent the PO numbers from being edited with Option 74 in Settings and Utilities.

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

pc/MRP for Windows - Version 8.04E (User: DO	DUG)	
<u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u> Ma <u>n</u> ual		
Purchase Order		×
PO Number 000004 Date Ordered 09/19/2009	This is a newly created Document Currency record that has not yet been saved BASE CURRENCY	Back
Vendor Informatic	prmation Item Information	Next Items/Notes
Vendor Acct# available PO Number	P Vendor Contact	currency is
Vendor Name	Terms selected the P	O will print out
	PO Request # both the bas alternate curr	
Street	Entered By Requires pc/M	
	Related Doc Currency	Module
City	DoD Rating	<u>D</u> elete
State / Zip	Requestor DOUG	
Country		<u>O</u> ptions
Vendor Ph # Fax #		
Item # Part Number Rev Description	Part Lookup 🔲 Pick Manufacturer	Create Par <u>t</u>
0001		Create Address
	Cost Per Unit % Tax % Discnt Date Require	Sales Import
Configuration Settings Displayed Curvecy	0.0000 0.000 0.00 / / /	
and Utilities, Option 74, can be set to prevent the PO Number from being	BASE CURRENCY Time Required :: he Quantity. This will allow P to highlight the vendor with est price for that quantity.	<u>E</u> inished <u>C</u> ancel
abf)	Record: 1/13 Record Unlocked	

Enter the quantity first, this will allow pc/MRP to highlight the vendor with that best price for that 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.

pc/MRP for Windows - Version 8		
Modules Tools Optional Configuration	Ma <u>n</u> ual	
Purchase Order		×
PO Number 000004	This is a newly created Document Currency	
Date Ordered 09/19/2005	record that has not yet BASE CURRENCY	Back
		Next
Vendor Information	Shipping Information Item Information	Items/Notes
Select the desired Part record		
Part Number Rev	Description Model No	Add
▶ 000000001 ABC	BEARING 3.000D x 1.00ID 1.00V 555003-1	Add
CON-00001	CON PCB MOD JACKS 555003-1	Clon <u>e</u>
000000013 2. Select	the correct part and press Enter.	Brea <u>k</u> down
00000014		
00000004	NUT	Delete
00000012	PAPER OFFICE SUPPLY(NonInv	
		Options
	Ok Cancel	
Item # Part Number Rev De	scription Part Lookup Pick Manufacturer	Create Par <u>t</u>
0001 BE	A	Create Address
Model Number	Qty Unit Cost Per Unit % Tax % Discnt Date Require	
1	1. Enter part of the Description, Part	Sales Import
Comments Disp	Number or Model Number and press Enter.	
	0.00	Finished
	Confirmed	
		Cancel
P		
Partmast (c:\pcmrpw\partmast.dbf)	Record: 1/13 Record Unlocked	NUM CAPS

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 [Rtn] or double click. All the necessary part information (including **part #, description, model #, PO unit, cost/unit, and manufacturer**) will be entered automatically.

**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.

E VFP - C:\V794 (User: DOU	ā)			
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfig	uration Ma <u>n</u> ual			
Purchase Order				×
	This is a s	newly created	Document Currency	
PO Number 000003 Date Ordered 10/12/2004		at has not yet	BASE CURRENCY	Back
Date Ordered 10/12/2004	been sav	ed	BASE CORRENCT	Next
Vendor Information	Shipping Informatio	n Iter	n Information	Jump To
Vendor Acct#				
Vendor Name		endor Contact		<u>A</u> dd
	Vendor Selection			Clone
Street	Select the de	sired Vendor		
City/State/Zip		NICS		Brea <u>k</u> down
Country	ARROW ELECTRO BBC MANUFACTUR			Delete
Vendor Ph #	Fax # CANA MANUFACTU	IRING COMPAN		0.0
				Options
-		Cancel		
Item # Part Number Re	/ Descript		cturer	Create Part
0001 Model Number	Qty Unit Cost Per	Soloot the desired	vendor and press the	eate Add <u>r</u> ess
			P has high lighted the	Sales Import
Comments	Displayed Currency BASE C	vendor with the best	price at this quantity.	
	<u> </u>		0.00	Finished
	Confirm	ed		Cancel
	7			
			<u> </u>	
Partmast (c:\v794\partmast.dbf)	He	ecord: 1/11	Record Unlocked	NUM CAPS

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

pc/MRP for \	Vindows - Version	8.04E (User: DOU	G)		_ 🗆 🗵
<u>M</u> odules <u>T</u> ools	Optional <u>C</u> onfiguration	n Ma <u>n</u> ual			
Purchase C	rder				×
PO Number	000004		This is a newly created	Document Curren	cy
Date Ordered			record that has not yet been saved	BASE CURRENCY	Back
					Next
Vendor	Information	Change Vendor	rmation	Ite Terms inserted the Address B	
Vendor Acct#	BBC001	Vendor Address Loo	okup Vendor Contact		inserted from Inventory
Vendor Name	BBC MANUFACTURI	IG COMPANY	Terms	(buyer). If th	ne Buyer is empty, it will
	ATTN: JOE SMITH		PO Request #	be popula	ited by the user login.
Street	111 SOUTH MAIN ST	REET	Entered By	КМ	Cione
		ndor info inserted			Breakdown
City	RICHVIEW	the Address Bool			Delete
State / Zip	CA	100000	Requestor	Doug	Related Document
Country	USA				Number inserted from
Vendor Ph #	980-112-1111	Fax # 980-112-11	Change Part Number	Change Manufacturer	the Address Book.
				Sales Ta	x and Trade Discount
Item # Part Num	<u> </u>				rom the Address Book
0001 0000000 Model Number			00 ID 1.00 WIDE SS FourPi Cost Per Unit	riceQtyBreaks	
555003-1	Part info insert from Inventor			0.000 0.00 12/12/200	Sales Import
Comments	-		BASE CURRENCY -	Time Required 12:00:00	
MUST BE CHROI	IE PLATED	<u> </u>		Freight 10.0	Enter Date and Time Required.
			Continned	ay costs in 👘 🔼	Required.
	omments can be		differe	nt currency	Enter freight
	ted from Inventory. See Option 22.		Check Confirme		
Vendor ID number	See Option 22.		vendor confirms the	he PO	NUM CAPS

- The **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.
- The **Related Document Number** (related sales order or contract #)
- The **Contact** (This field will automatically be populated from the Address book contact field or can be manually overwritten.)
- The **PO Placed By** (This field will be populated by the buyer per inventory part. If the Buyer is empty, it will be populated by the user login. This field can also be manually overwritten.)
- The **D.O. Rating** (Department of Defense Rating). This is used to help determine the priority of defense contracts.
- The Freight Amount
- Unlimited lines of **Comments**.
- Check the **Confirmed** Check Box when the Vendor has confirmed that he has 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 in the Shipping Information Page.

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

pc/MRP for Windows - Version 8				_ 🗆 🛛
Modules Tools Optional Configuration	n Ma <u>n</u> ual			
Purchase Order				×
PO Number 000004		is a newly created rd that has not yet		Back
Date Ordered 09/19/2005	beer	n saved	BASE CURRENCY	Next
Vendor Information	Shipping Inform	nation	Click the Add Button to	
Vendor Acct# BBC001	Vendor Address Lookup		add another line item	Items/Notes
Vendor Name BBC MANUFACTURIN	- ·	Vendor Contact		
ATTN: JOE SMITH		PO Request #	NET 30	Add
Street 111 SOUTH MAIN STR	REET	Entered By		Clone
		Related Doc		Brea <u>k</u> down
City RICHVIEW		DoD Rating		Delete
State / Zip CA	88888	Requestor		
Country USA			10000	<u>O</u> ptions
Ven The next availabe line ite	-116-1116			Log
automatically be inser		. =		Create Part
tem # Rev De	escription 🔽 Part Lo		Pick Manufacturer	
Model Number	Qty Unit Cost P	er Unit	% Tax % Discnt Date Require	Create Address
	1.000	0.0000	0.000 0.00 12/12/2005	Sales Import
Comments Dis	played Currency BASE	CURRENCY -	Time Required	
	<u> </u>		Freight 0.00	<u>F</u> inished
	Co	onfirmed		<u>C</u> ancel
	<b>Y</b>			
Your part number				NUM

To Add another line item click on the Add Button. Once a new line item is added to the PO you can click on the Back, Next, and Jump To Buttons to navigate to and from 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.

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

pc/MRP for Windows - Version 8.04E (User: <u>Modules</u> Tools Optional Configuration Manual	: DOUG)					_ 🗆 🗵
Purchase Order PO Number 000004 Date Ordered 09/19/2005 Vendor Information Chir Purchase Order Line Item Edit Form	This is a n record tha been save	ew review a th Purcha	ne Items/Note nd edit line ite se Order Not	ems and the es Section		Back Next
Item # Part Number Description			Order Quantity			
0001 00000001 BEARING 3.000D x 1.00D 0002 00000002 SPOKE	1.00WIDE SS	12/12/2005 12/12/2005	100.0000 1000.0000	6.0000 1.0000		<u>A</u> dd
	Revi	ew/Edit Date	Required		┇║.	Clon <u>e</u>
		antity and U			┇║.	Brea <u>k</u> down
	_				╞║	<u>D</u> elete
					┓	
Enter Boiler Plate Notes:				<u> </u>	-	<u>O</u> ptions
This is a custom comment for the en	ntire PO.	Sub To	tal:	1,600.00	-	Log
		Discou	nt:	0.00	-	Create Part
pc/MRP will auto insert the purchase	<u> </u>	Tax:		0.00	-	Create Address
boiler plate text (if any) from Settings		Freight	:	10.00		<u>S</u> ales Import
and Utilities, Option 22). Users can ed and save the Boiler Plate Notes for this		Total:	·	1,610.00		Finished 1
purchase order.	Running	Totals OF	(	Cancel		<u>F</u> inished <u>C</u> ancel
Poitems	Re	cord: 2/2	Exclusi	ve		NUM

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

If you want to enter boiler plate notes other than the default boiler plate notes set in option 22 or you wish to review your line items, click on the Items/Notes Button.

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

pc/MRP for Windows - Ver	sion 8.04E (User: DOUG)
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfig	guration Manual
Purchase Order	
PO Number 000004	Change # 0 This is an old record
Date Ordered 09/19/2005	Complete N from the data table Edit/Vew the next line item.
	<u>Next</u>
Vendor Information	Shipping Information Item Information
Vendor Acct# BBC001	Vendor Address Lookup Vendor Contact JOE SMITH
Vendor Name BBC MANUFAC	
ATTN: JOE SM	
Street 111 SOUTH MA	Create a blanket PO Clone
	Related Doc Delete a line item. Breakdown
City RICHVIEW	DoD Rating
State / Zip CA	
Country USA	88888 Requestor DOUG
Vendor Ph # 980-112-1111	Fax # 980-112-1112 Create a new part number
300-112-1111	
Item # Part Number Re	ev Description Part Lookup Pick Create a new address Create Part
0001 00000001 A	ABC BEARING 3.000D x 1.00D 1.00V Create a line item from a sales order. Create Address
Model Number	Qty Unit Cost Per U
555003-1	100.000 POUNIT 6.0000 0.000 0.00 12/12/2005
Comments	Displayed Currency BASE CURRENCY Time Required 12:00:00
MUST BE CHROME PLATED	Freight 10.00 Einished
<u> </u>	Click on Finish Button to save the PO.
	pc/MRP will increase the onorder quantity of each item ordered.
Partmast (c:\pcmrpw\partmast.dbf)	Record: 1/13

When you are satisfied with the all the entries, click on the **Finished** Button to save. If the Vendor Account # is not found in the Address Book Module or the Part Number can not be found in the Inventory Module, the user will be prompted to take corrective action. 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.

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

When you are finished, you also have the opportunity to print, display, fax, send to e-mail as HTML or send to email as PDF. To send to e-mail, MS Outlook, not MS Outlook Express, must be your default e-mail program. To send to fax you must install 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.

# 7.3.1 Creating blanket purchase orders with the Clone Button

Contraction of the second s	Vindows - Version 8.04E (User: DOUG) Optional Configuration Manual			
Purchase O PO Number Date Ordered	rder 000004 Change # 0 Th	is is an old record pulled m the data table	Document Currency BASE CURRENCY	Back
Vendor Vendor Acct# Vendor Name	Information Shipping Info BBC001 Vendor Address Lookup BBC MANUFACTURING COMPANY	Press the Clo Venc a multi line b	one Button to create lanket PO with even s and due dates.	Next Items/Notes
Street City	ATTN: JOE SMITH 111 SOUTH MAIN STREET BICHVIEW	PO Request #		Clon <u>e</u> Brea <u>k</u> down Delete
line i	e number of additional tems to be created. 980-112-1111 Fax to create 1	Every 1 +	Enter the date inte between line item	
Item #         Part Numl           0001         00000000           Model Number         555003-1		<u>Ok</u> <u>C</u> ancel	er nt Date Require 0 12/12/2005	Create Part Create Address Sales Import
MUST BE CHROI	IE PLATED	SE CURF Click on OK to the blanket		Einished
Partmast (c:\pcmrpv	Vpartmast.dbf)	Record: 1/13	Record Unlocked	NUM

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

# 7.3.2 Creating blanket purchase orders with the Breakdown Button

Purchase Order						
PO Number 0000 Date Ordered 09/19			s is an old record n the data table		nt Currency JRRENCY	Back
Vendor Inform	ation	Shipping Infor	mation		1	Next Items/Notes
Item Breakdown				Press the Break to create a mult		items/notes
Part# 00000	0001		Tot	PO with unever and due		Add
Description BEAR	NG 3 000D x 1 0	DOID 1 DOWIDE SS	Ac			
	Enter the q	uantitities.	8	Still Needed:	70.000	Clone
10.000	12/12/2005	Enter the due d	ates	0.000	11	Breakdown
20.000	01/01/2006 -	0.000		0.000	11	<u>D</u> elete
0.000	11	0.000	11	0.000	11	
0.000	11	0.000	11	0.000	11	<u>O</u> ptions
0.000	11	0.000	11	0.000	11	Log
0.000	11	0.000	11	0.000	11	Create Part
0.000	11	0.000	11	0.000	11	Create Addres
0.000	11	0.000	11	0.000	11	Sales Import
0.000	11	0.000	11	0.000	11	<u>Quice import</u>
0.000	11	0.000	11	0.000	11	Finished
						Cancel

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

## 7.3.3 Using the Options Button

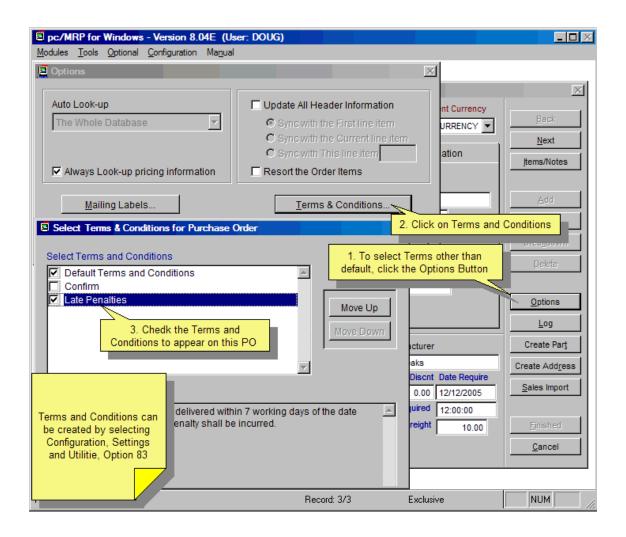
1.985	4 (User: DOUG) Optional Configuration Manual	_ D ×
	Zhnourai Zhuilidhaanni walinai	
Purchase C	Vrder	X
PO Number Date Ordered	from the data table	Back
Vendor	Information Shipping Information Item Information	<u>N</u> ext Jump To
Vendor Acct# Vendor Name	BBC001 Vendor Address Lookup Vendor Contact JOE SMITH BBC MANUFACTURING COMPANY Terms NET 30	Add
Chroat	ATTN: JOE SMITH PO Require the Ortice Butter to to	Clon <u>e</u>
Street City/State/Zip	III SOUTH MAIN STREET         PO Place         Click on the Option Button to to bring up the Options Screen.           RICH         Lookup by Whole Database, Starts with Entered Characters, Contains Entered Characters         Relate	Brea <u>k</u> down Delete
Auto Look-u		Options
	Iookup everytime you change qty       C Sync with the Current line ite information, select n the brader information         Cook-up pricing information       Resort the Order Items	nethod to Sync
Mai	ling Labels	<u>Finished</u>
	Print Mailing Labels for Vendor <u>Ok</u> If you are not using Labels for Vendor Terms and Condition Terms and Condition Terms and Condition	ng the default ons, select the

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 large database.

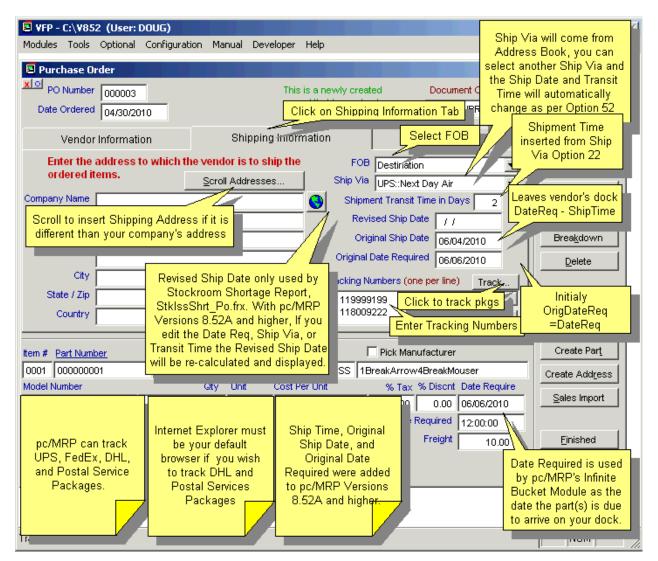
Other options on the Option Window include:

- Always Look-up pricing info When clicked, the pricing will always be looked up even when then quantity is edited. This checkbox value is set, until changed, 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.



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.

## 7.3.5 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 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.

When the purchase order is created.

The OrShipDate, RevShipDate would be visible and contain the same date.

The OrDateReq, DateReq would be visible and contain the same date.

When the purchase order is edited

If the OrdateReq field contains a date, the OrDateReq would be visible but disabled If the OrShipDate field contains a date, the OrShipDate would be visible but disabled

## 7.3.6 Item Information Page

<b>pc/MRP for Windows</b> Adules Tools Optional					
Purchase Order PO Number Date Ordered 11/14/20		This is an old record p from the data table		nt Currency ck on Item Info	Back prmation Tab
Vendor Informati Received Qty Rejected Qty Date Rcvd // Time Recd	on Delivery Field in automatic when item 0.000	is received.	Freight is Taxabl	ax Freight and	serted from part
On Time Del	splayed in Stockroom Short StklssShrt_PO.frx. Not used	Div 12	34	ost per unit in ntory. Cost of Should be figuration	
tem # <u>Part Number</u> 0001 000000001 Model Number	ABC BEARING 3.000D x 1.00	IT Lookup	Div is inserted	d from the	Create Par <u>t</u> Create Add <u>r</u> ess
555003-1 Comments MUST BE CHROME PLATED		6.0000		12/12/2006 12:00:00 10.00	Sales Import
rtmast (c:\pcmrpw\partmast	.dbf)	Record: 1/16	Record l	Unlocked	CAPS

Check Freight is Taxable (Taxfreight) if freight is taxable.

Check **Discount is Taxable** (Taxdiscnt) if the discount is taxable. 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

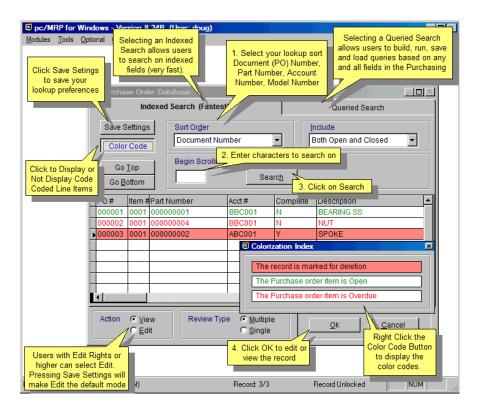
The Rev Ship Date, if used, is only shown on the Stockroom Shortage report. Not used by MRP.

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.

#### 7.4.1 Select a purchase order to edit



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.

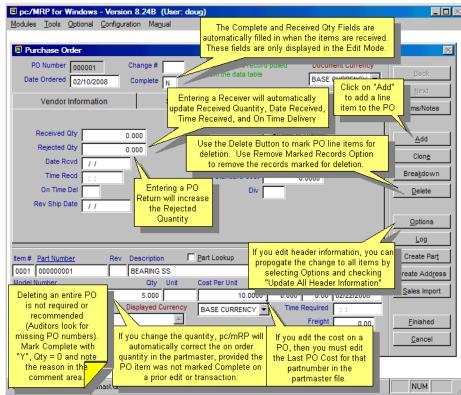


Selecting an **Indexed Search** allows users to search on indexed fields. An Indexed Search is much faster than a Queried Search.

For purchase orders larger than 50 line items, user may opt to select Single for the **Review Type.** Choosing the single review type will bring only the PO item selected up for viewing/editing, while the multiple option will bring up the entire PO. Adding a new item to an existing PO can only be done with the multiple review type.

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.

## 7.4.2 Edit a purchase order



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

- If you edit a quantity in the PO quantity, you must also edit the onorder quantity in the inventory file or run one of the Audit OnOrder Quantities. With pc/MRP version 8.01 and higher pc/MRP will correct the onorder quantity in the inventory file automatically. If the PO cost is changed after saving the new PO, you must manually edit the part's Last PO Cost.
- pc/MRP versions 8.01A and higher automatically correct the part number's on-order quantity whenever the quantity in the purchase order changes.
- pc/MRP prints out the vendors 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 press 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 (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.
- Users can use the delete and undelete buttons in the data entry screen to mark purchase order line items for deletion and un-deletion. Once the record has been marked for deletion, return to the menu and select **REMOVE MARKED RECORDS.** You must then rune the **AUDIT ONORDER QTYS**.

## 7.4.3 Deleting a purchase order

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

- Option 1:
  - You should, 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, all at the same time to ensure that the **OnOrder** qty is updated when you save the record.
- Option 2:
  - Mark each line item's **Complete** flag with a "**Y**" for all line items and then run the **Audit OnOrder Quantities** from the Purchase menu. This keeps the original order qtys.

Once all the line items in a PO are marked **Complete** (maybe with 0 qtys), the whole PO is considered complete. Versions 8.00 and below should also run the "**Audit Onorder Quantities**" menu item of the Purchase Module to correct the **On Order** qtys.

**Note:** You will also have to run the "**Audit Onorder Quantities**" if you delete the record without zeroing out the qtys in the PO line items or change the qty to 0 <u>after</u> you previously marked and saved the record as **Complete**.

# 7.5 Select a PO to Print, Display, E-mail, or Fax

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

Configuration, Settings and Utilities, Settings

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

pc/MRP is designed to print out purchase orders on plain paper with a laser or ink jet printer. If necessary carbonless forms can be obtained as shown below:

## Dot matrix printers

You can order pc/MRP's two part (5K-2990-2), three part (5K-2990-3) or four part (5K-2990-4) carbonless forms and matching double window envelopes (5K-DW3787) from Rapid Forms, telephone number 1-800-257-8354. Be sure to give the Rapid Forms Operator pc/MRP's Keycode Number C20100.

## Laser printers

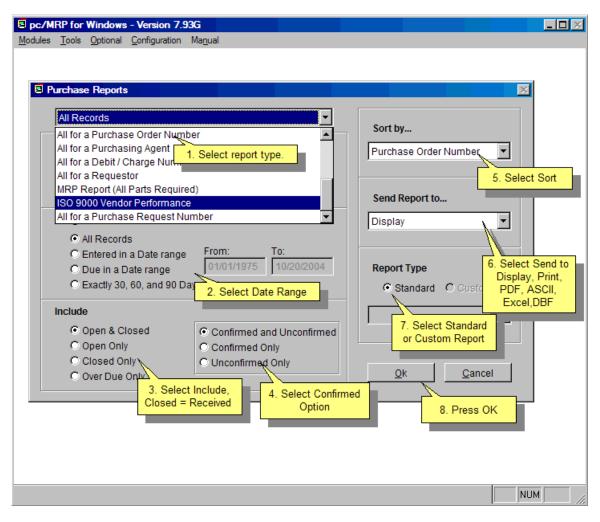
You can order the 3-part NCR carbonless paper by calling JC Paper in Mt. View, CA at (650)965-0983. Ask for the zero-form, straight sequence 3 part NCR pre-collated 8-1/2" X 11" paper. It comes in sets per package

Purchase orders may be folded in third and placed in double windowed envelopes.

VFP - C:\V794 (User: DOUG)				
Modules Tools Optional Configuration N Print Preview II	Magual Printer	The PO will	be displayed as shov	wn below.
SOFTWARE ARTS 1	INC.	PAGE 1	PO	#: 000003
PUBLICATION DIVISIONS 6830 VIA DEL ORO # 10 SAN JOSE CAL 95119 PHONE: 408-226-7321 FAX: 408-226-8435		TERMS : NE' REL DOC# : COL CONTACT : JOI PHONE : 980	stination	PO DATE REQUESTOR : PO REQUEST : PLACED BY : ACCOUNT # : DEBIT/CHRG :
Vendor: BBC MANUFACTURING CON ATTN: JOE SMITH 111 SOUTH MAIN STREET			Ship To: SOFTWARE ART PUBLICATION 6830 VIA DEL	DIVISIONS
RICHVIEW CA 88888			SAN JOSE CAL	95119
ITEM PARTNO	REV DESCRIPTION	DATE REQ	QTY UNIT	PRICE
0001 00000001 555003-1 MUST BE CHROME PLATED	ABC BEARING 3.00	OD x 1.00ID 1. 12/12/04	00WIDE SS TYC 100 POUNIT	6.00
Tempinv (c:\docume~1\doug\locals~1\temp\;	Taxes are totaled (Ba each line item (Calc rounding. The total t rounded to 2 decimals	ltem) w/o ax is then	Exclusive	

## 7.6.1 Purchase Order Reports

To print or display purchase order reports select Modules, Purchase Order, and Reports. pc/MRP will display the screen shown below.



Configuration, Settings and Utilities, Option24 allows users to create custom report forms. See Section 15.4.1 of this manual for instructions on creating custom reports forms.

## 7.6.2 ISO 9000 Vendor Performance Report

The ISO 9000 Vendor performance report shown above allows end 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 end 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.

This report, VENPER.FRX (contains all code for the report), uses the following database files: Purchase with Addrbook and Partmast as children, and PartVend as child of partmast.

**NOTE:** The 'Y' or 'N' in the 'On Time' field is calculated and is based upon the Receiver 'Date Received', the PO 'Date Required', and Option 85 when the receiver is entered. Not on Qty. For partial receivers, within the due range, it is still 'On Time'. The ISO 9000 report is correct even when you include Open & Closed POs and will

show if there is a qty still due. If the date received falls outside the Option 85 range, as an expedited delivery may, then you will also have to change the PO 'On Time' flag manually to a 'Y'.

## 7.6.3 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. Both methods utilize the screen below.

pc/MRP for Windows - Version 7.9 <u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u>		
Purchase Reports		
MRP Report (All Parts Re	quired)	Sort by
	onsolidated in / Max	Vendor Account Number
Include Demand From:	Include Demand From: I STORES 2 TEST/MRB 3 R&D 4 DEMO 5 INCOMP 6 ENGINEER J WIP	Send Report to Display  Report Type  Standard Custom
Print TR	ACE Calculations	<u>O</u> k <u>C</u> ancel
		NUM

## 7.6.3.1 Min/Max Report (lgminmax.frx)

The first 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. This 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.

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

The second method, Consolidated, provides the exact amount of parts required to be ordered to meet the demand driven by sales orders and/or work orders. The consolidation report first zeros 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.

## MINQTY+ONDEMAND-ONORDER-(THE SUM OF THE STORAGE AREAS CHOSEN)

If there are not enough finished assemblies and sub assemblies to fill the open sales and work orders pc/MRP will use the BOMs 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 the manual.

The Consolidated Purchasing Report can be ran 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. Do not printout 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.

Example, Narrow Carriage Purchase Order Report Format

rint Preview - LGPARR								ĺ۵.
Pirk Preview	N 100% • 🔮 🗃		P CONSOLII	ATED SHORTAGE	REPORT			]
PART HUNDER	DESCRIPTION MOD	EL NUMBER	VENDOR	PHONE .	COST UNIT	QTY REQ	EXTN COST	
000000003	FRAME, X23 BICYCLE FRAME	14-987	CANONWALE INC.	111-111-1111	0.0000	5.000	0.00	
00000005	GEAR CHANGER ABT ASSEMBLY -TY		CANONWALE INC.	111-111-1111	0.000	5.000	0.00	
00000004	DIRT TEASER TIRE		SMITH BIKE ASSESORIES	111-111-3211	0.000	10.000	0.00	
00000006	BANANA BICYCLE SEAT		SMITH BIKE ASSESORIES	111-111-3211	0.000	5.000	0.00	
00000007	PEDALS		SMITH BIKE ASSESORIE	111-111-3211	0.000	10,000	0.00	
00000008	NGF INTERTUBE (NEVER GOES FLAT)		SMITH BIKE ASSESORIE	111-111-3211	0.000	10.000	0.00	
00000009	SPOKES (WHEEL SPOKES)		SMITH BIKE ASSESORIE	111-111-3211	0.000	400.000	0.00	
00000010	STEM FOR TUBE		SMITH BIKE ASSESORIE	111-111-3211	0.000	10.000	0.00	
00000011	BREAK ASSEMBLY		SMITH BIKE ASSESORIE	111-111-3211	0.000	5.000	0.00	
00000013	BOLTS		SMITH BIKE ASSESORIES	111-111-3211	0.000	90.000	0.00	
						TOTAL :	0.00	
				-				4

After the consolidated report has been generated, pc/MRP offers an Excess Inventory report.

This new report can include: All parts Only parts without requirements Parts with more On-Hand than required Both: Parts without requirements or more onhand than required

It can be sorted by: Part number

Description Model number Manufacturer

It 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. 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, an error report describing the error(s) will be available.

## 7.7 Return items to a vendor (Debit Memo)

This process is the same as documented in creating a debit memo in the general ledger, and is found in Chapter 14.11.3, Debit Memo Module.

#### 7.8 Audit Onorder Quantities

Zeros out the onorder quantity in inventory and then replaces the on order quantities with the on order quantities from all open POs. If several purchase order quantities are edited this option will automatically correct inventory quantities. This option will also display non-existent 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.

## 7.9 PO Log Book

This feature can be used to record conversations or commitments pertaining to each PO. The Windows version of pc/MRP uses generic ASCII text files.

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

7.11 Indexed Searches (see 15.14.2)

7.12 Index (see 15.14.3)

- 7.13 Remove Marked Records (see 15.14.4)
- 7.14 Remove Over X Years (see 15.14.5)

# **8 Receiving Module**

pc/MRP for Window	ws - Version 8.20F	_ <b>_ _</b> ×
Modules Tools Optional	al <u>C</u> onfiguration Ma <u>n</u> ual	
	•	
BOMs •		
Stockroom		
Purchase	<u> </u>	
Receive	▶ <u>N</u> ew	
Work Order	Edit / View	
Sales Order	Print Select Modules, Receive and	
In <u>v</u> oice	New to enter a receiver	
Shipment •	Print Receiving Labels	
Address Book	Index	
Accounting		
E <u>x</u> it	Remove over <u>X</u> Years	
	Remove <u>Marked Records</u> Remove over <u>X Years</u> by Software Arts	
	by Software Arte	
	by Soliware Aris	
Create a New Receiver		
create a New necerver		

# 8.1.1 New (Enter A New Receiver)

Allows users to enter a new receiver into the Receiving Database File. pc/MRP will display the next available **Receiver Number** and ask if you wish to scroll the PO file. If users answer **Yes**, they will be allowed to scroll the PO file by either PO Number, Account Number, or Part Number. If users 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. <u>The Receiver Number should consist of only numeric characters with leading zeros.</u> pc/MRP is unable to increment alpha characters.

An online slideshow is located here: http://www.pcmrp.com/mrp101/receivenew.htm

VFP - C:\V794 (User: DOUG) Modules Tools Optional Configuration Manual Creating a New Record	All of the information shown below will be entered automatically from the PO.
PO # 000003 Date Received 10/22/2	Document Currency
Vendor Information S	Shipping Information Item Information
Vendor Acct # BBC001	Vendor Invoice #
Vendor Name BBC MANUFACTURING COMPA	ANY Terms NET 30
ATTN: JOE SMITH	Related Doc # CONTRACT # 22335
Street 111 SOUTH MAIN STREET	
City / State / Zip RICHVIEW CA 88	8888 If applicable enter the Serial or Lot Number. If you are
Country USA	using pc/MRP's Optional Serial Lot Number, do not enter the Serial Lot Number here as pc/MRP will prompt you to enter the Serial Lot Number on a following screen.
Item Part Number Rev Description	
0001 000000001 ABC BEARING 3.0	DOOD X 10 IN ESS TYCO
Model Number Serial #	uty Recieved Unit Price Tax %
555003-1	100.000 ROUNIT 6.0000 0.000
Comments	Displaye If necessary, edit Qty Received
MUST BE CHROME PLATED	Note: The Receiver Boiler Plate is set in Settings and Utilities, Option 22 and can not be edited in the receiver data entry screens.
Purchase (c:\v794\purchase.dbf)	Record Unlocked NUM

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.

Part number data from inventory can be viewed in the receiver by pressing F1.

Quantity Received should be edited by the computer operator if necessary.

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.

**Vendor Invoice Number**, and **Freight** are usually entered by accounting when the vendor sends the 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).

pc/MRP for Windows - Version 8.04E (User: D odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual	DOUG)
Creating a New Record	×
Receiver #         000002         Last Change         /           PO #         000004         Date Received         09/	Image: Non-State in the state in t
Vendor Information	Shipping Information Item Information
Delivered To Received By DOUG, 13:27:56	Shipped Via UPS enter the name of kage was delivered to. Tracking Numbers (one per line) Track 119191919191 919192930 Pressing the Track Button will automatically track the packages listed.
	GON Manufacturer G 3.000D x 1.00ID 1.00WIDE SS FourPriceQtyBreaks
Model Number Serial # 555003-1	Qty Recieved         Unit         Price         Tax %           100.000         POUNIT         6.0000         0.000
Comments MUST BE CHROME PLATED	Displayed Currency: BASE CURRENCY  Disc % Freight Location Area 10.00 10.00 STORES
	<u>Q</u> k <u>C</u> ancel
chase (c:\pcmrpw\purchase.dbf)	Record: 5/6 Record Unlocked NUM

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 entire 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 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.

pc/MRP for Windows - Version 8.2	20D	
Modules Tools Optional Configuration	Ma <u>n</u> ual	
Check if Freight or Discount is taxable.	Aux Date is auto insert into Date Received Sh Asset or Expense Account to Debit Aux Direction of the series	d. Doc Click on Item Info to enter or edit item info. BAS Item Information
Pay Date 01/00 Pay Date is automatically calculated based on delivery dat plus number of days in terms.	Date Required On Time (Y/N) Standard Cost	12/01/2006
Model Number 555003-1	Serial # Qty Recieved	Unit Price Tax %
Comments Press OK to rec order will decrea:	100.000 Displayed C ceive line item, qty onhand will increase, on se, average cost will be re-calculated. If qty ty ordered, PO will be marked complete.	Location Area
Purchase (c:\pcmrpw\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 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 calculated from the number following the word "NET" in the Terms Field.

The date is automatically inserted into the **Date Received** Field. If the Date Received is equal to or prior to the **Date Required**, pc/MRP will automatically insert a **Y** into the **On Time** 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."

Once the new receiving record has been entered, pc/MRP will update the quantity received, date received, on time delivery, and complete field in the purchasing record. It will automatically increase the quantity on hand and decrease the quantity on order in inventory, provided pc/MRP has been configured to do so (Configuration, Settings and Utilities Option 4 set to A). If a receiver is over received pc/MRP will decrement the quantity on order in inventory but it will not take the onorder quantity negative.

The AUX field is a 20-character field for your use and can be reported on as "All for an AUX value".

If the new cost  $\geq 0$  and quantity received  $\geq 0$  and the old cost  $\geq 0$  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 old cost = 0 then the average cost will = the new cost per stocking unit including any discount. If the new cost = 0 then the average cost will be calculated just as the example describes.

Option 50 in pc/MRP's configuration menu allows you to include alternate area quantities and WIP quantities in the above formula.

If you have activated the serial/lot number module, pc/MRP will ask if you wish to "Enter serial/lot numbers". If you answer Y, you will be prompted to enter the quantity and serial/lot number of the part number 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"

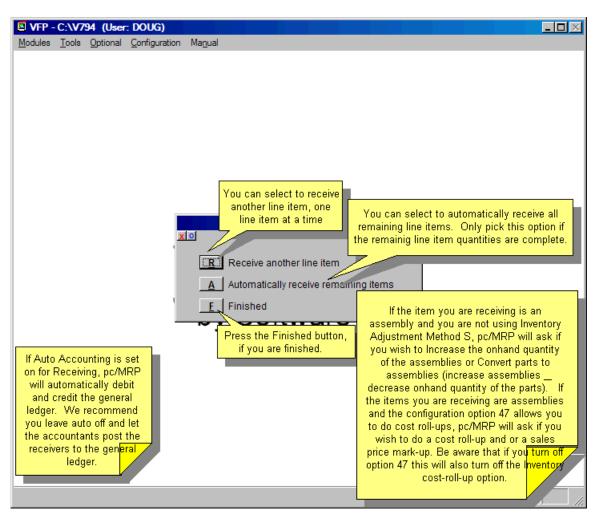
Option 44 in Configuration Settings and Utilities allows you to either set pc/MRP to prompt which area is to receive the parts or set a specific area as the default area.

If the item you are receiving is an assembly and you are not using Inventory Adjustment Method **S**, 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). You will also have the options to run a cost roll-up and or sales price markup.

If the items you are receiving are assemblies and the 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. **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.** 

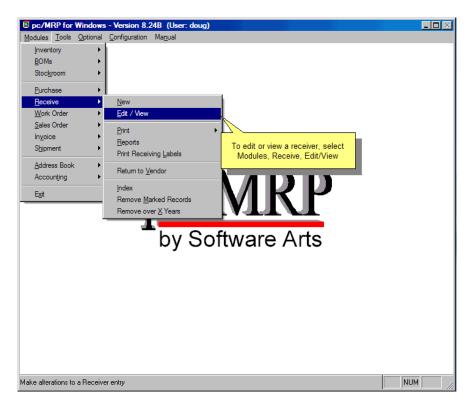
If the PO line item has already been received, pc/MRP will generate a warning allowing the user to continue or cancel.

Once the initial line item has been received, pc/MRP will prompt you to "Receive an additional line item", "Receive the all of the remaining line items on the original PO", or Press the "Finished" Button if you are finished.



After all the line items have been entered for a receiver pc/MRP will automatically debit and credit the general ledger if it is configured to do so (auto accounting on).

## 8.2 Edit/View (Scroll/Delete/Undelete Receiver Line Items)



This option allows users to scroll, edit, delete, undelete, or run queries against Receiver records.

pc/MRP for Window Modules Iools Optiona Click Save Setings to save your lookup preferences Wer Database	ows users on indexed ry fast).	t your lookup sort nt (Rec) Number, umber, Account r, Model Number	Selecting a Queried Search allows users to build, run, save and load queries based on any and all fields in the Receiver Table
Indexe	d Search (Fates		Queried Search
Save Settings	Sort Or <u>d</u> er Document Number	Bot	ude th Open and Closed
Go Top	Begin Scrollir 2. Enter	characters to searc	ch on
Click to Display or		Search J	
Not Display Code Debttom			k on Search
ver PO # It	tem #Part Number	Acct #	on 🔺
000001 000001 0	000000001	BBC001	BEARING
	0002 00000002	BBC001	SPOKES 10
	0003 00000003	BBC001	REAR AXLE
	0004 00000004	BE 🗷 Colorization	Index X
	0005 000000014	BE	
▶ 000002 000002 0	0001 00000002		is marked for deletion
		The item ha	as been Posted to Accounting
	I	The Receiv	er item is Open
			<u>,</u>
Action C View			Ok Cancel
€_Edit			
		<u> </u>	Right Click the
Users with Edit Rights or higher can select Edit. Pressing Save Settings will	4.	Click OK to edit or view the record	Color Code Button to display the color codes.
make Edit the default mode	F	lecord: 6/6	Record Unlocked NUM

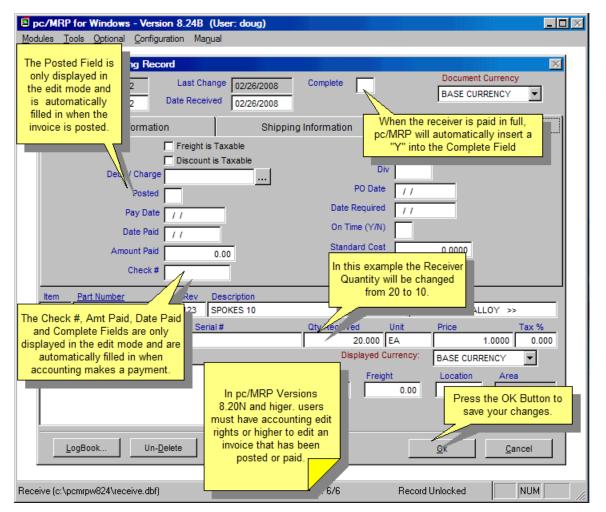
Selecting an **Indexed Search** allows users to search on indexed fields. This allows pc/MRP to find the information much faster. To perform an **Indexed Search** select the:

- Desired Sort Order
- Desired Include information: Open, Closed, Both Open and Closed
- Enter the applicable data in the Begin Scrolling At: field
- Press Search
- Select the desired Action, View or Edit

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 Receiver table. For further details, see chapter 15.14.1.

Every field within the receiver table is editable. There are however, several key concepts users must understand before editing.

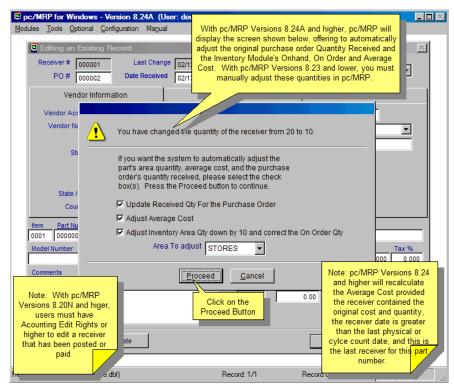


If users edit the quantity received in a receiver users must (V8.23 and lower):

- Edit the quantity received in the PO record
- Edit the complete field in the PO record to be Y or N if the status of the purchase order has changed
- Edit the inventory area quantity representative of the quantity change

The process to completely reverse a receiver is:

- Edit the quantity received in the receiver line to 0 and mark Complete = 'Y'
- Edit the quantity received in the purchase order line to 0 and mark Complete = [blank]
- Manually decrease the inventory by the amount of the original receiver quantity



If a person edits or deletes a receiver with pc/MRP version 8.25H and higher, pc/MRP will allow the option to automatically adjust:

• If a person 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 greater than the last Physical Inventory Date for that part number.

• If a person 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 'Application Version' field is > '824' and

The receiver's qty cost or discount or deleted or undeleted was adjusted and

The receiver's original ave cost => 0 and

The receiver's original inventory qty => 0 and

The receiver is the last receiver for that part number and

The receiver's date is greater than the last physical date and

The receiver's qty + the original inventory qty > 0 and

The receiver's new cost => 0 and

The receiver's new qty => 0

If these conditions are 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 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. A "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 to 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. Once the record has been marked for deletion, return to the menu and select **REMOVE ALL DELETED RECORDS FROM DISK AND REINDEX.** 

In pc/MRP version 8.20N and higher, users must have Accounting Edit rights or higher to edit a receiver that has been posted or paid (requires Advanced Password Module).

# 8.3 Print/Email Receiver

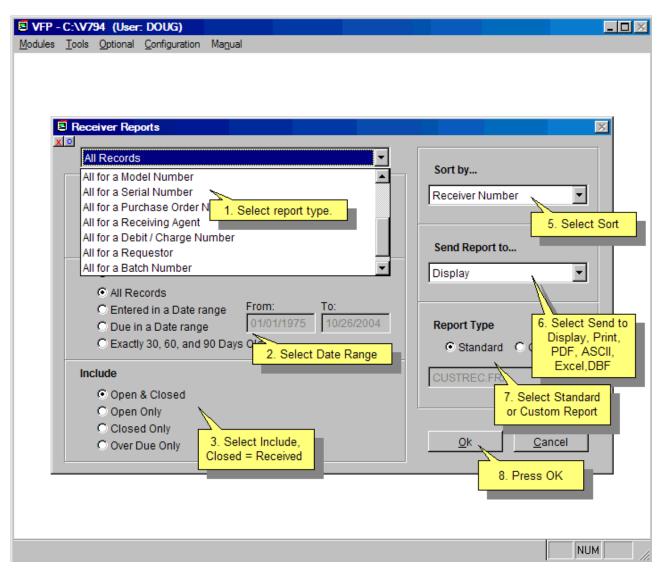
VFP - C:\V794 (User: DOUG)     Modules Iools Optional Configuration Manual Printer	_D×
Print Preview	
Sd First Prev Next Next Close Pri	nt RECEIVER #: 000002
PU Page Page Page Page Rep 683 SAN JOSE CAL 95119	PO NUMBER : 000003 PAGE NO. :1 DATE : 10/25/2004
PHONE: 408-226-7321 FAX: 408-226-8435	SHIP VIA : UPS VENDOR INV: RECVD BY : DOUG, 09:41:47
BBC MANUFACTURING COMPANY ATTN: JOE SMITH 111 SOUTH MAIN STREET RICHVIEW CA 88888	PO REQ NO : DEBIT/CHRG : 10100000 TERMS : NET 30 REQUESTOR : DAN ACCOUNT # : BBC001 REL DOC # : CONTRACT # 22335
ITEM PARTNO DESCRIPTION	QTYREC UNIT COST
0001 00000001 BEARING 3.000D 555003-1 PODATE: 10/12/04 ACTUAL DATE REQ: 12/	x 1.00ID 1.00WIDE TYCO 100POUNIT 6.00 12/04
MUST BE Receiver Boiler Plate Notes are inserted from Option 22 in Settin	
Receiver boiler plate	xes are totaled (BatchPri) for ach line item (CalcItem) w/o unding. The total tax is then FREIGHT:
Tempinv (c:\docume~1\doug\locals~1\temp\36671688.dbf)	nded to 2 decimals. (CalcTot)

This option will print, display, send to e-mail, or send the receiver to an HTML document to attach the receiver 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.

We recommend using plain paper. However, you can order 3-part NCR carbonless paper by calling JC Paper in Mt. View, CA at (650)965-0983. Ask for the zero-form, straight sequence 3 part NCR pre-collated 8-1/2" X 11" paper. It comes in sets per package.

#### 8.4 Reports (Printout/Display Receiver 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 (ASCII, XLS, DBF). If the report is sent to a file the rows will be filtered but all of the fields will be included.

#### **8.5 Print Labels**

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

🗧 pc/l	IRP for	Windows	- Versi	on 8.2	DF							. <b>D</b> ×
<u>M</u> odules	<u>T</u> ools	<u>O</u> ptional	<u>C</u> onfigu	ration	Ma <u>n</u> ual							
	📮 Labe	el Genera	tor								×	
	Item #	Part Num	nber		Description					Quantity	Boxes 📥	
		0001 00000001		BEARING 3.0	00D x 1.00IE	1.00WIDE	SS		10.000	1		
	0002	0000000	02		SPOKES					100.000	2	
										number of line item		
			eiver#		02		Deliv	vered To				
			Item #					FOB				
	P	urchase (	Order #	0000	03			Sel	ect:			
		Part N	umber	0000	00001					(Standard R		
		Manuf	acturer	FourF	PriceQtyBreaks			Ree	cLabBox	(PB Free C	heckbox)	
		M	lodel #	5550	03-1							
		Date Re	ceived	01/03	/2007			Dutput		splay 💿 Pr	in <u>t</u> er	
				,			L	abel Forn	n RECL	ABQTY.LBX	-	
					specify per box		5	<u>S</u> tart on La	bel #	1 🕂 🔨	Start at L	abol
		I Sp	ecify Inc	lividua	l Box <u>Q</u> uantities	<u>Help</u>		<u>0</u> k	<u> </u>	<u>C</u> ancel Press OK	Numbe	
Workfile	c:\docun	ne~1\doug	\locals~1	\temp\	47676076.dbf)	Reco	rd: 2/2	E×	clusive			

Configuration, Settings & Utilities, Option 24 can be used to create custom labels. With versions 8.21B and lower use NOTEPAD to add the label filename to the list found in the file RECLAB.LST which resides in the pcmrpw directory. With versions 8.21A and higher, custom labels starting with CUSTREC\*.LBX will be displayed in the drop-down list box (15.4.20).

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

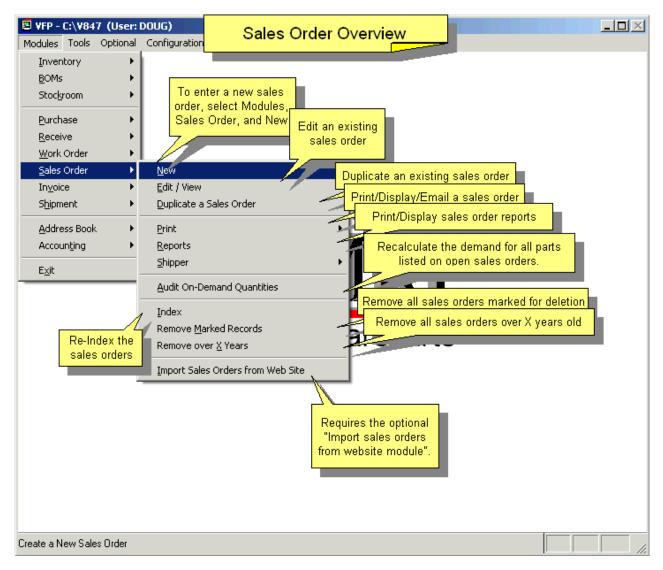
8.7 Indexed Searches (see 15.14.2)

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 Sales Order (Order Entry)



#### 9.1 Overview

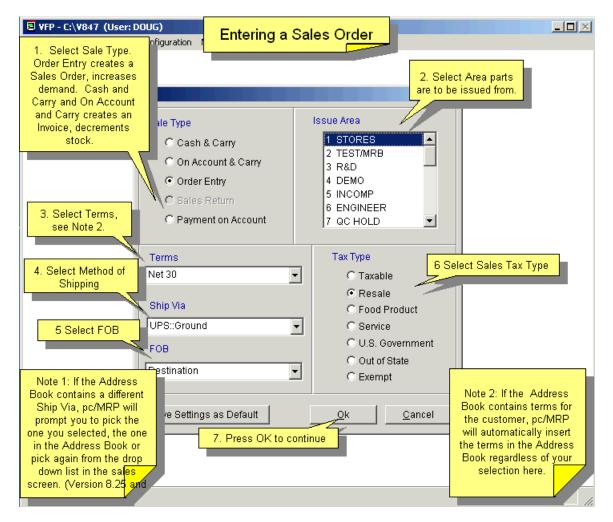
pc/MRP's Sales Module allows you to enter, edit, and print sales orders and sales order reports. If a sales order entered as a "cash and carry" or as an "account and carry" order, pc/MRP will print out an invoice and decrement the on hand quantity in inventory. If a sales order is created as "order entry" (to be delivered at a later date), pc/MRP will print out a sales order and increase the on demand quantity. pc/MRP's Sales Module will provide numerous reports including All Overdue Sales Orders, All Sales Orders for a Month, Sales Tax, Sales Commission, and Cost of Sales. Each Sales Order can contain up to 9999 line items (Settable via Settings & Utilities, Option 63). Each line item has a due date and can be taxable or non-taxable. An online slideshow is located here: <a href="http://www.pcmrp.com/mrp101/saleselectnew.htm">http://www.pcmrp.com/mrp101/saleselectnew.htm</a>

## 9.2.1 Enter a new sales order step 1, Select Sales and New from pc/MRP's Main Menu

VFP - C:\V847 (User: Modules Tools Optional	Entering a Sales Order	
VFP - C:\V847 (User:         Modules       Tools       Optional         Inventory       Image: Stockgroom       Image: Stockgroom         BOMs       Stockgroom       Image: Stockgroom         Purchase       Image: Stockgroom       Image: Stockgroom         Stockgroom       Image: Stockgroom       Image: Stockgroom         Stockgroom       Image: Stockgroom       Image: Stockgroom         Stockgroom       Image: Stockgroom       Image: Stockgroom         Shipment       Image: Stockgroom       Image: Stockgroom         Address Book       Accounting       Image: Stockgroom         Exit       Image: Stockgroom       Image: Stockgroom	To enter a new sales order, select Modules, Sales Order, and New	
Create a New Sales Order		

Select Modules, Sales and New as shown above and the following screen in step #2will appear.

#### 9.2.2 Enter a new sales order step 2, Select Type, Area, Terms, Ship Via, Tax and FOB



Select the Type of sale:

- **Cash and Carry** -- pc/MRP generates a Sales Order, creates/prints an Invoice and deducts stock. This method places a C in the 1st character of the sales code field, **Saletype**.
- On Account and Carry -- pc/MRP creates a Sales Order, creates/prints an Invoice and deducts stock. This method places a A in the 1st character of the sales code field, Saletype.
- **Order Entry** -- pc/MRP creates/prints Sales Order, increases on demand in inventory. This method places a O in the 1st character of the sales code field, **Saletype**.
- Sales Return -- This creates a credit memo. See the credit memo chapter for more information. In versions 6.89 and higher 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 the Issue Area (where the parts and assemblies will be issued from) and the Tax Type .

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.

Select **Tax Type**. A single character (Taxable=T, Resale = R, Exempt = E) will be saved as the second character in the **Saletype** database field.

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.

#### 9.2.3 Enter a new sales order step 3, Select the Customer

pc/MRP for Windows - Version 8.568     Modules Tools Optional Configuration	ng a Sales Order
Sales Order (Add Mode - Multiple Item)	X
SO/WO # 000104	Document Currency
Order Date 1. Enter the first couple of	BASE CURRENCY V Back
characters of the customer	s
Customer name and press Enter.	Item Info Accounting Info
	Items/Notes
Customer	Account #
Address	Addr Type
	Terms Net 30
Street	Credit Card [None] + Clone
	Customer PO#
City	Contact Brea <u>k</u> down
State / Zip	Related Doc #
Select the desired Address record	elect the company from
	list and press Enter. Pname
ABC002 ABC MANUFACTURING	ptions
ALL001 ALLIED ELECTRONICS	ATTN: JOHN DOE
ABC001 ARROW ELECTRONICS	ATTN: JOESPH CARTRIGHT THE 3RD
AVN001 AVNET ELECTRONICS	ate Par <u>t</u>
BBC001 BBC MANUFACTURING COMPANY	ATTN: JOE SMITH
CAL001 CA STATE BOARD OF EQUALIZATION	
CAN001 CANA MANUFACTURING CORPORA	TION ATTN: JOESPH CARTRIGHT THE 3RD
DIG001 DIGI-KEY ELECTRONICS	ATTN: JOHN DOE
MOUDD1 MOUSER ELECTRONICS	ATTN: JOHN DOE
	ancel
	<u>Ok</u> <u>Cancel</u>
Addrbook (c:\pcmrpw856\addrbook.dbf)	Record: 1/11 Record Unlocked NUM

- Place the cursor in the **Customer** Field or the **Account** # Field.
- Type the first few characters of the customer name or the Account #.
- A list of customer addresses will appear.
- Scroll to the desired customer and hit [Enter] or double click. All the address information will be entered automatically.
- If alternate billing and/or shipping addresses exist in the address entry for this customer pc/MRP will automatically populate the BILL TO and/or SHIP To fields.

The "Account #" and "Part #" fields are always linked to the Customer Address Book and Part Master. This means that the entries to these two data fields must be valid numbers contained in the Address Book or the Part Master.

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.

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

And the second s	ndows - Version 8.568 ptional Configuration N Entering	g a Sales Order		<u> </u>
🚊 Sales Order	(Add Mode - Multiple Icem)			×
SOAVO # 000 Order Date 06/1		•	Document Currency BASE CURRENCY	<u>∎</u> ack
Customer	Billing / Shipping Deliv	very Item Info	Accounting Info	Next
Customer ARR	Root Address Lookup OW ELECTRONICS	Account # ABC001		<u>I</u> tems/Notes
	N: JOESPH CARTRIGHT THE 3RD	Terms 2% 10De	ays Net 30 Days 💌	Add Item
Street 1234	1567 SOUTHWEST MAIN STREET	Credit Card [None]	<u>+</u>	Clone
Ctty MOU	INTAIN VISTAS	Contact JOE SMI	тн []	Brea <u>k</u> down
State / Zip CA	12345-1234		D DOC/CONTRACT#	Delete
Country USA			WEST TERRITORY	
e-Mail sales	<sup>248-644</sup> For items without a part #, e s@arrov "NA" and the description	1. Enter part of th	CION e part description, part umber and press Enter.	Options
Item Part Nur 0001 Ouertitu	Wh Linit Solo Drice Tay V Er.		2. Select the part and press OK.	Create Par <u>t</u>
Part Numbe	r Rev Description	Model No		<b>_</b>
▶ <b>■</b> 000000010	WHEEL ASSY			Einished Cancel
🗖 <u>S</u> how Obsol	lete Items	(	<u>-</u> k <u>C</u> ancel	
Partmast (c:\pcmrpw8	856\partmast.dbf)	Record: 5/11	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 (that you have entered) will appear.

Scroll to the desired part and hit [Enter] or double click.

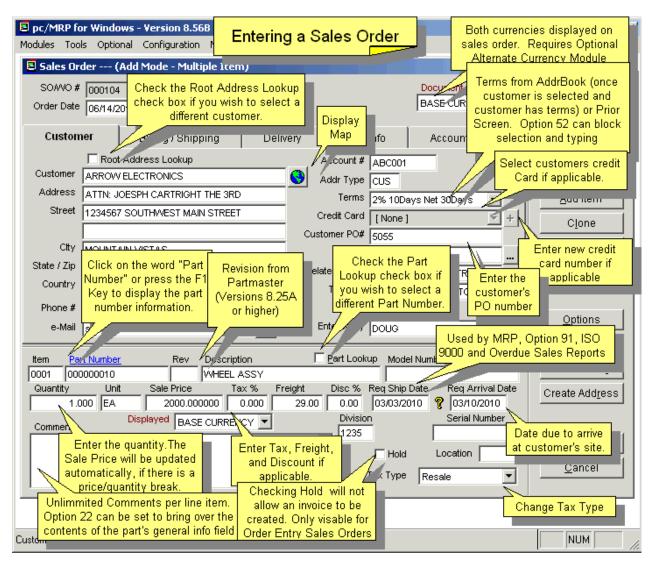
All the necessary data will be entered automatically.

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 options 17 and 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 (P,L,A).

For items without a part #, enter "NA". Then manually enter the description and model number.

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.

#### 9.2.5 Enter a new sales order step 5, Enter Quantity, Tax, Freight, 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 **Specific 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 [Delivery] Date Required.

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 totals for all line items will be totaled and printed out on the forms and reports.

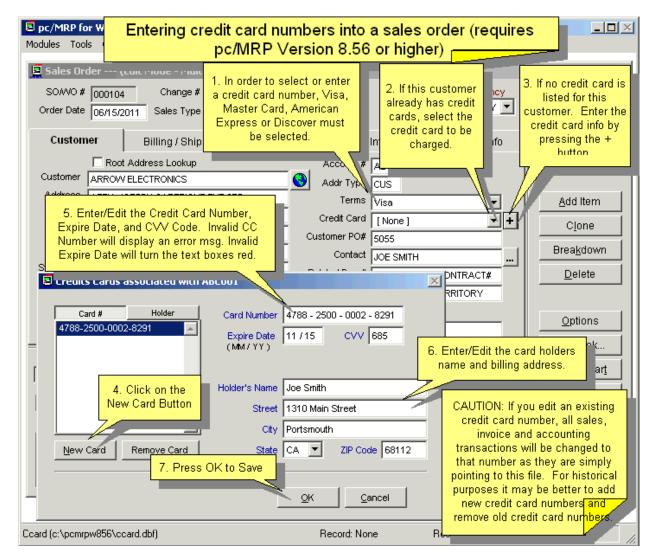
The Reg Arrival Date (reqaridate) is currently used for information only.

The **Related Document Field** (Contract) is a 21 character scrollable field. It can be used to enter a related contract number, serial number, or document number. Each line item can include as many **Comments** as necessary.

Each line item can have one **Serial Number** (serial). If multiple serial numbers are needed per line item then you may need the Serial Lot Number module. (Chapter 16.10.1)

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. Page 152 pc/MRP V8.50 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. It is displayed on pc/MRP versions 8.25A and higher.



9.2.5.1 Enter a new sales order step 5.1, Enter Credit Card information.

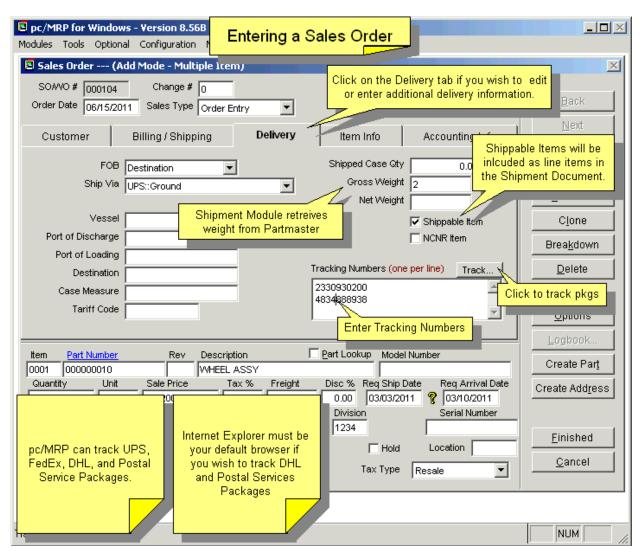
pc/MRP versions 8.56 and above allow you to enter or select a credit card to use with the sales order.

#### 9.2.6 Enter a new sales order step 6, Enter Billing and Shipping Addresses if necessary

pc/MRP for Windows - Version 8.568 Modules Tools Optional Configuration	a Sales Order	
	on the Billing/Shipping tab to view or the billing and shipping addresses.	Eack <u>N</u> ext Items/Notes
Bill To ABCD MANUFACTURING BILLING Address ATTN: ACCOUNTS PAYABLE Street 1234567 SOUTHWEST BILL STREET City MOUNTAIN BILLS State / Zip CA 12345-BILL	ABCD MANUFACTURING SHIPP C ATTN: RECEIVING 1234567 SOUTHWEST RECV Check the Enable check boxes if you enter and lookup billing or shipping CA	ou wish to different
Country USA-BILL  tem Part Number Rev Description 0001 000000010 WHEEL ASSY Quantity Unit Sale Price Tax % Freig 1.000 EA 2000.000000 0.000 Comments Displayed BASE CURRENCY ▼  The Division Field can be autom inserted from the Partmaster or A Book as per Option 78 in Config Settings and Utilities. Partmast (c:\pcmrpw856\pa.me.cem,	29.00 0.00 03/03/2011 <b>?</b> 03/10/2011 Division Serial Number 1234 Hold Location Tax Type Resale	Options Logbook Create Part Create Address <u>Finished</u> Cancel

If the Billing Address and/or Shipping Address is different from the Customer Address, you can manually enter the appropriate data fields. Or, you can click the Billing Address check box and /or Ship Address check box then type in a few characters of the customer name in the "Bill To" and/or "Ship To" fields. The Address Book window will appear allowing you to select the desired addresses.

#### 9.2.7 Enter a new sales order step 7, Enter Delivery Information if necessary



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 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.

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 in the invoice but not in the shipment documents.

The Shipment Module gets the Gross Weight (grssweight) and Net Weight (netweight) directly from the inventory module and not from the Sales Order Module.

#### 9.2.8 Enter a new sales order step 8, Enter Item Information if necessary

pc/MRP for Windows - Version 8.568     Entering a Sales Order	<u> </u>
Clienting dedicated to this sales order. I tolwow : item ino : And	Eack ales order to be b-assys only.
Web Site Sales Order Number       Issued to MFG and Qty Assembled will be auto filled by the StockRoom Module.       Date Shipped al Req Ship Date 03/03/2011         Web Order Number       Reference No. 1         Sales Site       Reference No. 2         Manufacturing Site       Reference No. 3	<u>A</u> dd Item Clone Breakdown Delete Options
Item       Part Number       Rev       Description       Part Lookup       Model Number         0001       000000010       WHEEL ASSY       Disc % Req Ship Date       Req Arrival Date         1.000       EA       2000.000000       0.000       29.00       0.00       03/03/2011       % 03/10/2011         Displayed         Displayed       BASE CURRENCY       Division       Serial Number         1234       Hold       Location       Tax Type       Resale	Logbook Create Par <u>t</u> Create Add <u>r</u> ess <u>F</u> inished <u>C</u> ancel
Partmast (c:\pcmrpw856\partmast.dbf) Record: 5/11 Record Unlocked	NUM ///

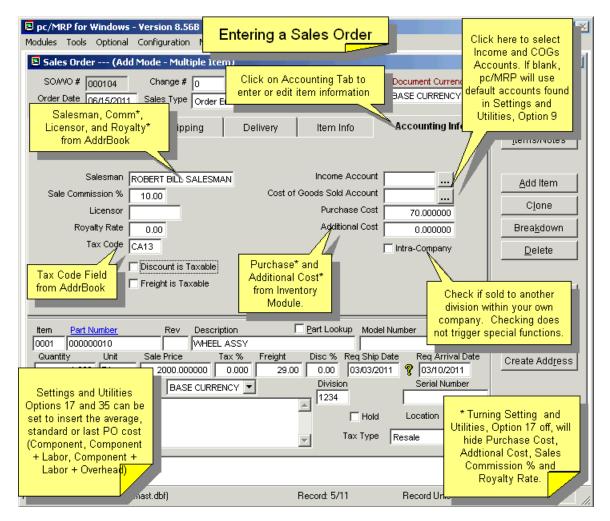
If the sales order requires dedicated work orders, check the **Requires Dedicated Work Orders** Checkbox. See the Work Orders Chapter, Section 13.1.10 and .11 for details on this feature.

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.

**NOTE:** If the customer's **Sales Level**, in the address book and a **Disc %** both have values, both are used in the calculation.

The **Original Date Required** is automatically populated anytime the Date Required is edited. This fields stores the previous Date Required.

#### 9.2.8.1 Enter a new sales order step 8.1, Enter Accounting Information if necessary



The **Credit Account** (cacc1) 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 Options 17 and 35 to import the average or standard cost and include or not include labor and overhead costs. The **Additional Cost** (Addcost) field is an optional field currently **not** 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.

### 9.2.9 Enter a new sales order step 9, Add Another Line Item or click on Finished

pc/MRP for Windows - Version 8.568 Modules Tools Optional Configuration	Entering a Sales Order	-	
🗧 Sales Order (Add Mode - Multipl	le :rem;		×
SO/WO #         000104         Change #         0           Order Date         06/15/2011         Sales Type         C		Document Currency           BASE CURRENCY	
Customer Billing / Shippin	g Delivery Item Info	Accounting Info	es l
Salesman ROBERT BILL SAI Sale Commission % 10.00 Licensor 0.00 Royatty Rate 0.00 Tax Code CA13	Cost of Goods Sold Account	Add Item Clone ther line item to the sales on the Add Item button.	
Discount is Tax Inserts next available line item		<u>D</u> elete Options Logbook	
	Tax %         Freight         Disc %         Req Ship           00         0.000         29.00         0.00         03/03/20	011 <b>?</b> 03/10 Serial N Location After adding a line iter you will be able to use t Back, Next, and Jump	m the to he
Partmast (c:\pcmrpw856\partmast.dbf)	Record: 5/11	Record Unio	

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.

#### 9.2.10 Enter a new sales step 10, Enter the Boiler Plate and Review the line items

pc/MRP for Windows - Version 8.568     Modules Tools Optional Configuration     Entering	a Sales Order		
Solvo # 000104 Change # 0 Order Date 06/15/2011 Sales Type Order Entry	▼ review and Sales (	e Items/Notes Button to J edit line items and the Order Notes Section	<u>B</u> ack
Customer Billing / Shipping Delive	ry Item Info	Accounting Info	_tems/Notes
Sales Order Line Item Edit Form			
tern # Part Number Description 0001 000000010 WHEEL ASSY	Req Ship Date 03/03/2011	Order Quantity Unit Sale Price 1.0000 2000.00000	
0002 000000001 BEARING, 3" OD x 1" ID	03/03/2011	1.0000 20.00000	
	Review/Edit Date F		rea <u>k</u> down Delete
			Options
Enter Boiler Plate Notes:		<u></u>	Logbook
5% Penalty on all overdue invoice payment pc/MRP will auto insert the sales boiler plate text (if any) from Settings and Utilities, Option 22). Users can edit and save the Boiler	ts. Sub T Disco Tax: Freigi Total:	bunt: 0.00 0.00 ht: 29.00	reate Part ate Add <u>r</u> ess <u>Finished</u> Cancel
Plate Notes for this sales order. Displayed Currency: BASE CURRENCY Salesitems	Running Totals	OK Cancel 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. You are allowed to add to or overwrite this text if you so wish.

#### 9.2.11 Enter a new sales step 11, Click on Finished to save the sales order

Dec/MRP for Windows - Vers Modules Tools Optional Confi	Entering a Sales Order	
Order Date 06/15/2011 Sale	e - Multiple Item) hange # 0 es Type Order Entry / Shipping Delivery Item Info	<u>B</u> ack
Sale Commission % 10.0 Licensor Royatty Rate 0.0 Tax Code CA13	Purchase Cost	
tem <u>Part Number</u> 0002 00000001	Create a new part number         Rev       Description       Ret Lookup       Mode courser         ABC       BEARING, 3" OD x 1" ID       555       Create a new address         e Price       Tax %       Freight       Disc %       Reg Ship D         20.000000       0.00       0.00       0.00       03/03/2011       Serial Number         BASE CURRENCY       Ital       Ital       Ital       Ital       Ital         Tax Type       Click on Finish to the sales order.       Ital       Ital       Ital       Ital	<u>Create Part</u> Create Add <u>r</u> ess <u>Einished</u> <u>Cancel</u>

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 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 Sales Order exceeds the customers 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 the Settings and Utilities for further detail on the credit limit warning.

#### 9.3.1 Other Buttons and Keys, Clone Button

pc/MRP for Windows - Version 8.568 Modules Tools Optional Configuration	g a Sales Order
🚊 Sales Order (Add Mode - Multiple Item)	X
SOMVO # 000104 Change # 0 Order Date 06/15/2011 Sales Type Order Entry Customer Billing / Shipping Del	I. To create a blanket sales order with evenly spaced delivery dates and quantities click on the Clone Buttton <u>■ack</u> <u>Next</u> <u>tems/Notes</u> <u>tems/Notes</u>
Sal Sale Commis Lic Royatt Taz	Income Account <u>A</u> dd Item Cost of Goods Sold Account <u>Clone</u> Purchase Cost <u>10.000000</u> Additional Cost <u>0.000000</u> Brea <u>k</u> down <u>D</u> elete
Discount is Taxable     Freight is Taxable     Item Part Number Rev Descripti 0002 000000001 ABC BEARING	Number of clones to create       Every       1 ★       Options         1 ★       Oweek(s)       0       0         1 ★       Oweek(s)       3. Enter the frequency (spacing between line item delivery dates)
Quantity       Unit       Sale Price       Ta         1.000       EACH       20.000000       (         Comments       Displayed       BASE CURREN         4.       Press the OK button the additional line it	
Partmast (c:\pcmrpw856\partmast.dbf)	Record: 1/11 Record Unlocked NUM

Click on the **Clone** button to create a blanket sales order with evenly spaced delivery dates and quantities.

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.

The number entered into the "**Every**" box will be activated only when the "**Date REQ**" field on the Sales Order entry screen has a valid delivery date.

Enter the desired parameters and click "OK"

Clicking "Cancel" will return to the Sales Order entry screen without adding any line items.

#### 9.3.2 Other Buttons and Keys, Breakdown Button

Discontinear Contension Provided American Stress Provided American Stre		Entering a S	ales Order			
	Change # 0		Item Info	Docu BAS Acc	<ol> <li>To create a blanket sales order with varied delivery dates and or varied quantities, click on the Breakdown button</li> </ol>	Back
Part# 0000000 Description BEARING			Total Rec Accounte Still Ne	ed For:	3.000 3.000 0.000	Add Item
2.000	03/03/2011	0.000 / / 0.000 / / 0.000 / /		0.0		Brèa <u>k</u> down <u>D</u> elete
0.000	// 2. Enter th	e desired quantitie ctive delivery dates		0.0		Options
0.000		0.000 / / 0.000 / / 0.000 / /		0.0	100 / / 100 / / 100 / /	Create Par <u>t</u> Freate Add <u>r</u> ess
		0.000 / /				<u>F</u> inished <u>C</u> ancel
3. Press the Ok button to create the line items.     Cancel						

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, the "Accounted for" will increase to reflect the total that has been entered so far.

The "Still needed" indicating 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 with 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.

#### 9.3.3 Other Buttons and Keys, Options Button

pc/MRP for Windows - Version 8.568     Modules Tools Optional Configuration     Entering a	Sales Order
📃 Sales Order (Add Mode - Multiple Item)	×
SO/WO #     000104     Change #     0       Order Date     06/15/2011     Sales Type     Order Entry	Document Currency       BASE CURRENCY
Licensor Royatty Rate 0.00 Tax Code CA13 Click here to update Header Information on a line items. Select method of looking up Customers and Partnumbers. Auto Look-up tem Ooo: Que Starts with Entered Characters Contains Entered Characters	Item Info Item Info Click on the Options Button to set the way pc/MRP looks up Customers and Partnumbers, updates Header Information, print Mailing Labels, and the number of times pc/MRP will perform a price lookup. Additional C Intra-Company Pelete Options Logbook Create Part Options Resort the Order Items Always Look-up pricing information Ok Cancel
Partmast (c:\pcmrpw856\partmast.dbt)	Record: 1/11 Record Unlocked NUM

Click on the **Options Button** to perform the following tasks.

The **Auto Look-Up** will determine what appear 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 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.

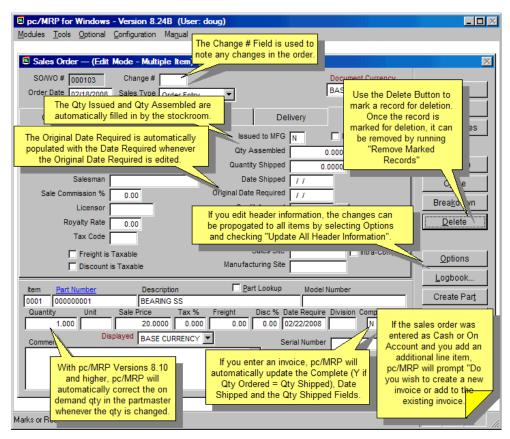
**NOTE:** When duplicating a sales order, pricing information is not changed unless the quantity or part number is changed and the option is checked.

The **Resort the Order Items** option will resort the Items Number 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.

#### 9.3.4 Sales Credit Limit Override Screen



9.3.5 Other Buttons and Keys, F1 Button, Display Part Number Information

Inventory (View N Part # 0000000 Description BEARING Qtys \ Costs		Part - Inventory MDESS Sales Prices	▼ × ○ 	Revision AB	Displayed Currenc Details 2	y BAS	pection Criter E CURRENCY QuickBooks@	•
Costs: Avei Stan Las On O On Den MRP Avai Estimated Us Minimum Maximum Std Order Order Mu Stock & Issue Lead Time (Days)	dard 10.000 t PO 10.000 rder 0.00 rder 0.	Acsembly Cost Details     Display & Update	Pres	F DE INCC ENGINI QCHC R STAG 0 SCF sthe F1 Kc "Part Numb	res	5.000 2.000	Location	•

#### 9.4 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 country of origin, 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 **IF** you select it to transfer on the Invoice boiler plate selection <u>AND</u> if there is **NO** boiler plate text for the invoice boiler plate.

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 if auto accounting is set on in the configuration menu. However, it is recommended that auto accounting to be 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".

Menu option 53 in the Configuration/Settings and Utilities can be set to provide or not provide credit limit warnings.

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 one company.)

#### 9.5 Edit/View (Scroll/Delete/Undelete Sales Order Line Items)

L SHE	rs - Version 8.24B (User: doug)	
Modules Tools Optiona	I <u>C</u> onfiguration Ma <u>n</u> ual	
Inventory •		
<u>B</u> OMs ►		
Stockroom •		
Purchase		
Receive		
Work Order		
Sales Order	<u></u>	
In <u>v</u> oice	Edit / View	
Shipment •	Duplicate a Sales Order	
Address Book	Print To edit or view a sales order,	
Accounting	Reports select Modules, Sales Order	
Exit	Shipper and Edit/View.	
	Audit On-Demand Quantities	
	Index	
	-	
	Remove <u>Marked Records</u> Remove over <u>X Years</u> ware Arts	
	Nellove over A reals	
Make alterations to a Sales	Order entry	NUM
make allerations to a sales		

To view or edit a sales order, select Modules, Sales and Edit. pc/MRP will display the screen shown below.

Go	Selectin Search to searc fields Work Orde Indexe	d Search (Faster Sort Orger Document Nu Begin Scrolling	1. Select Documen Part Nur Number,	Selecting a Queried Search allows users to build, run, save and load queries based on any and all fields in the Sales Table of the Sales Table and all fields in the Sales Table of the Sales Table and all fields in the Sales Table of the Sale
option to Display	Item #Part	Number	Acct #	Complet tion
or Not Display 101	0001 000		ABC001	N 03/21/2008 WHEEL ASSY
Code Coded Line 102	0001 000		ABC001	Colorization Index
103	0001 000	000001	ABC001	The record is marked for deletion         The order is on HOLD         The order has been Issued to Manufacturing         The order is Open         The order is Overdue
Action Users with Edit Right higher can select Ed	O ⊻iew ⊙ Edit	Review Ty	C <u>S</u> ingle	Ok I Nancel I

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

In pc/MRP version 8.43 and below you have an option of **'Review Type'** to look at **Multiple** records in a SO or just **Single** records at a time.

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. Press Search
- 6. Select the correct record
- 7. Press **Ok** to proceed to the edit screen for that record.

pc/MRP for Windows - Version 8.24B (User: doug)	
Modules Tools Optional Configuration Magual The Change # Field is used to note any changes in the order.	X
Solves Creat       Change #         Order Date       00103         Change #       Document Currency         Order Date       00103         Sales Type       Document Currency         The Qty Issued and Qty Assembled are automatically filled in by the stockroom.       Delivery         The Original Date Required is automatically populated with the Date Required whenever the Original Date Required is edited.       Salesman         Salesman       Date Shipped       0.000         Salesman       Original Date Required is edited.       Original Date Required is edited.         Original Date Required is edited.       Date Shipped       0.000         Salesman       Original Date Required is edited.       Date Shipped         Salesman       Original Date Required is edited.       If you edit header information, the changes can be propogated to all items by selecting Options and checking "Update All Header Information".	deletion. ord is n, it can es unning ked
Freight is Taxable     Ouce site     Discount is Taxable     Manufacturing Site	<u>O</u> ptions
Item         Part Number         Description         Part Lookup         Model Number           [0001         000000001         BEARING SS	Logbook Create Par <u>t</u>
Quantity       Unit       Sale Price       Tax %       Freight       Disc %       Date Require       Discion       Composition         1.000       20.0000       0.000       0.00       0.000       0.000       0.000       Discion       If the sale         Comment       Displayed       BASE CURRENCY       Serial Number       If the sale       Account         With pc/MRP Versions 8.10       If you enter an invoice, pc/MRP will automatically update the Complete (Y if Qty Ordered = Qty Shipped). Date       Date       Displayed       Nivoice         Shipped and the Qty Shipped       Date       Shipped and the Qty Shipped       Date       Nivoice	ales order was as Cash or On and you add an onal line item, will prompt "Do to create a new e or add to the ting invoice.

Every field within the Sales Order table is editable. There are however, several key concepts a user must understand before editing.

If the Sales Order edited was originally entered as "**Cash and Carry**" or "**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 a sales order, you must also edit the quantity on demand in inventory or run one of the Audit OnDemand features. If an invoice has been entered for this sales order you must edit the invoice as well. The reason pc/MRP does not edit the other files automatically, is that if the other files were edited first, your edit would then re-adjust the previous edit. This could create an endless loop of confusion. To edit the address, simply edit the address in the first line item.

**NOTE:** pc/MRP versions 8.01A and higher automatically correct the part number's on-demand quantity whenever the quantity in the sales order is changed.

The **ISSUED / QTY ASSMD** appears on the edit screen for **order entry** sales orders as these types of orders automatically become work orders. pc/MRP will automatically enter a "**Y**" when the assemblies are issued from stock to manufacturing. The **QTY ASSMD** field is automatically updated when the assemblies are received by the stock room from manufacturing for that sales order number.

The **COMPLETE**, and **QTY SHIP** fields are displayed only in the edit mode and are filled in automatically when the items are invoiced. The **QTY SHIP** 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**" in the **COMPLETE** field marks the record as open.

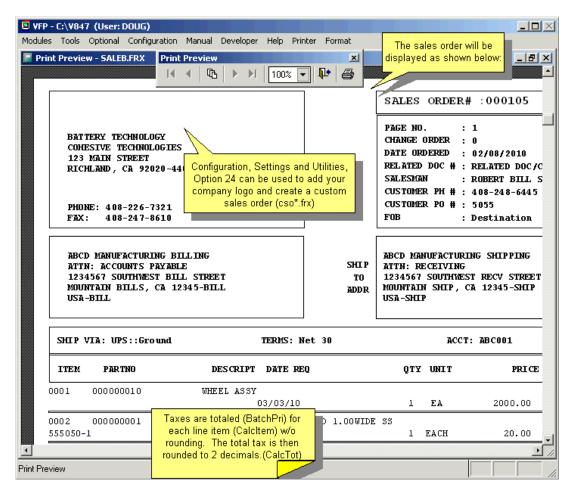
The **DATE SHIPPED** field appears to the right of the **DATE REQ** field. This is updated automatically when invoicing.

The **CO**# stands for **Change Order Number;** this is used to note any changes in the order. Use the **Delete** Button to mark a record for deletion. Once the record has been marked for deletion you must return to the menu and select **REMOVE MARKED RECORDS.** 

The **Original Date Required** is automatically populated anytime the Date Required is edited. This fields stores the previous Date Required

#### 9.6 Duplicate a Sales Order

When you duplicate a sales order, the complete sales order is duplicated with a new Sales Order number.
 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. (ref: 9.3.3)



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.

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.

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.

The sales order form uses sale.frx and saleb.frx. See section 15.4.1 to create a custom sales order (cso.frx).

Sales Orders, Invoices, and Shippers can be configured to print out the Serial Number or Model Number using the Configuration Menu's, Settings and Utilities, Option 22.

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.

#### 9.7.2 Printing sales orders on carbonless paper on laser printers

You can order the 3-part NCR carbonless paper by calling JC Paper in Mt. View, CA at (650)965-0983. Ask for the zero-form, straight sequence 3 part NCR pre-collated 8-1/2" X 11" paper. It comes in sets per package.

#### 9.7.3 Printing sales orders on carbonless paper on dot matrix printers

You can order pc/MRP's two part (5K-2990-2), three part (5K-2990-3) or four part (5K-2990-4) carbonless forms and matching double window envelopes (5K-DW3787) from Rapid Forms, telephone number 1-800-257-8354. Be sure to give the Rapid Forms Operator pc/MRP's Keycode Number **C20100**.

#### 9.8.1 Reports (Printout/Display Sales Order Reports)

pc/MRP for Windows - Version 8.32D	
Modules Tools Optional Configuration Manual	
Sales Order Reports  I. Select Report Type  All Records  All for a Sales Code  All for a Customer PO Number  All for a Territory  All for a Territory  All for a Region  ISO 9000 Report  All for a Licensor  Version 8.31M or high  ISO 9000 Customer On-Time Delivery  Multiple Sales Reports (One for each Saleoman)  2. Select Date Range	4. Select Sort By Sort by Sales Order Number 5. Select Display, Print, etc. Ber Send Beport to
All Records     C Entered in a Date range     Due in a Date range     Due in a Date range     Di/01/1975     03/24/2009     C Exactly 30, 60, and 90 Days Old	Report Type © Standard © Custom
Open & Closed     Select Filter (Closed = Invoiced)     Open Only	
C Closed Only C On Hold Only	🗖 Save Settings as Default
	<u>Ok</u> <u>Cancel</u> 6. Press OK
	D. Press OK

Select Modules, Sales Orders and Reports to display or print out a sales order report. Allows users to print out or display various sales order reports (salelog.frx). See section 15.4.1 to create custom sales order reports (cusso\*.frx or custso\*.frx).

#### 9.8.2 ISO 9000 On Time Delivery Report for Customers

The ISO 9000 On Time Delivery Report (soper.frx) for Customers is sorted by customer Account Number and consists of the following columns:

Sales Order Number
Item Number
Original Date Required
Revised Date Required
Date Shipped
On Time to Original Date Required
Will contain a Y if Date Ship is between Original Date – 10 and Original Date. The subtotal will be
100 * (number of on time orders/total number of orders)

On Time to Current Date Required

Will contain a Y if Date Ship is between Revised Date -10 and Revised Date. The subtotal will be 100 \* (number of on time orders/total number of orders)

#### 9.9 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. Those line items **not** on hold will be printed/displayed.

#### 9.10 Audit On-Demand Quantities

Zeros out the ondemand quantity in inventory and then replaces the on demand quantities with the ondemand quantities from all open sales 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 rerun the function again.

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

9.12 Indexed Searches (see 15.14.2)

9.13 Index (see 15.14.3)

9.14 Remove Marked Records (see 15.14.4)

9.15 Remove Over X Years (see 15.14.5)

# 10 Invoice Module

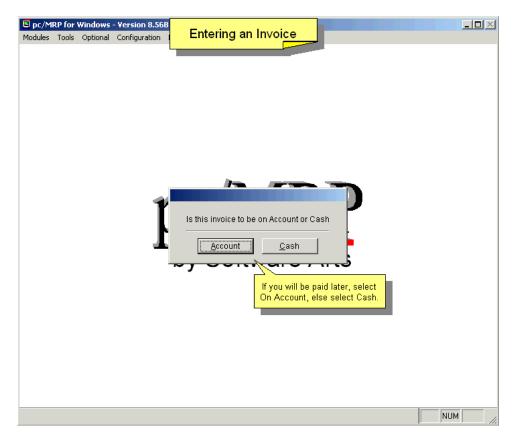
Dec/MRP for Windo Modules Tools Option	Entoring on Invoice	
Modules     Tools     Option       Inventory     BOMs     Stockgroom       Stockgroom     Import       Qurchase     Receive       Work Order     Sales       Sales     Order       Shipment     Address       Address     Book       Accounting     Import	Image: Configuration	
Create a New Invoice		NUM

#### 10.1 Overview

pc/MRP's Invoice Module allows you to enter, edit, and print invoices and invoice reports.

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

#### 10.2.1 Enter a New Invoice Step 1, Select Invoice and New from pc/MRP's Main Menu



Select Modules, Invoice and New as per the screen shown above. Select Account or Cash.

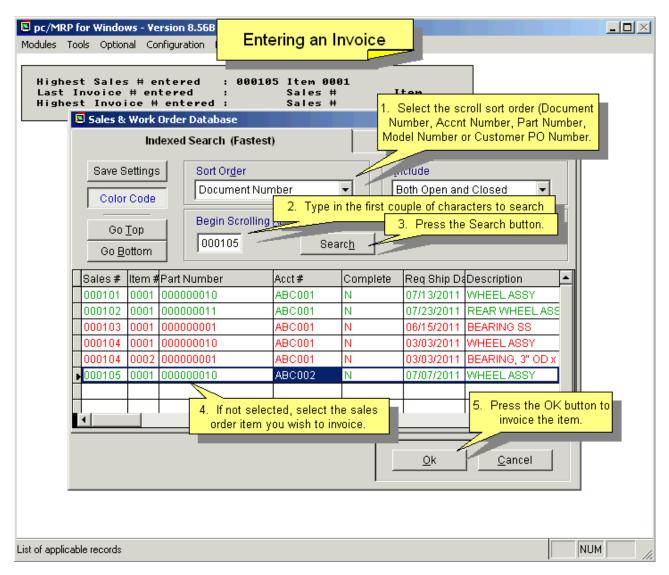
	- Version 8.56B Configuration	Entering an Invoice
		Select the issuing Inventory area
	ľ	1 STORES 2 TEST/MRB 3 R&D 4 DEMO 5 INCOMP
	4	6 ENGINEER 7 QC HOLD 8 RMA 9 STAGING
		<u>QK</u> <u>Q</u> ancel Select the inventory area the part(s) and or assembly(s)
		will be shipped from.

Select the **inventory area** the parts and or assemblies will be shipped from. Answer **OK** to proceed to the sales order screen selection.

Answer YES to scroll the sales order database. Answering NO will abort the operation.

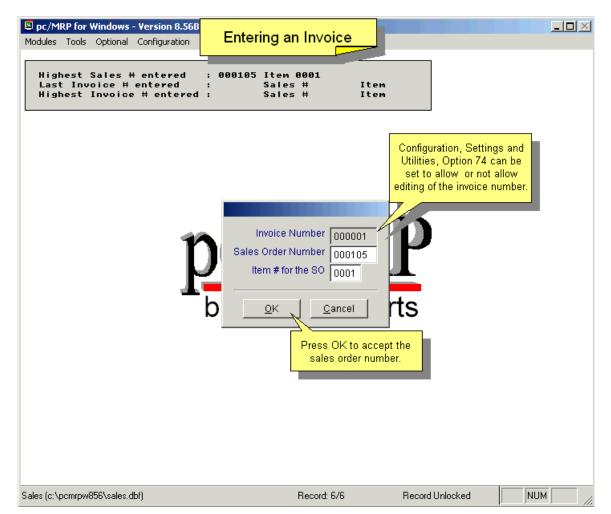
pc/MRP for Windows - Version 8.568 Modules Tools Optional Configuration	tering an In∨oice		
Highest Sales # entered : 000 Last Invoice # entered : Highest Invoice # entered :	105 Item 0001 Sales # Ite Sales # Ite		
D	Scroll the SALES file?	P	
by-		rts	
	Select Yes to scroll th order database file an a sales order to be in	d select	
Sales (c:\pcmrpw856\sales.dbf)	Record: 6/6	Record Unlocked	NUM //

#### 10.2.2 Enter a New Invoice Step 2, Select the Sales Order to be Invoiced



- 1. Select the **Sort Order** for the sales orders to be displayed in:
  - Document Number (Sales Order Number)
  - Account Number
  - Part Number
  - Model Number
  - Customer PO Number
  - Ship to Address
- 2. Type in the first couple of characters to search on.
- 3. Press the **Search** button
- 4. Select the sales order number you wish to invoice
- 5. Press the **OK** button

#### 10.2.3 Enter a New Invoice Step 3, Accept the Next Available Invoice Number



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 unable to increment alpha characters. For example if the highest invoice number was B00007, pc/MRP would provide B00008 as the next available invoice number. But, B99999 would be incremented to 000001 which in most cases would have already been used.

If you want to add an additional item to an existing invoice, you may do so by typing in the invoice number and the next highest item number available on the sales order you are invoicing against.

For **On Account & Carry** or **Cash & Carry** sales orders that already have an invoice associated with it, you may be presented with the following screen. Just select the option you require.

An Invo	ice already exists.					
?	At least one Invoice already exists for this Sales Order. Do you want to					
	Create a new Invoice or Add to an old Invoice					
	Create Add					

# 10.2.4 Enter a New Invoice Step 4, Check Invoice Customer, Quantity, Freight, Tax, and Discount

Due Date is aut calculated from order's te	the sales ms v Invoice] If an Alternate Document Unvoice Date 06/16/2011 Currency is selected, the invoice will print out in Document
Customer	Billing / Shipping Delivery Item Info Accounting Info applicable.
Customer [	ABC MANUFACTURING Terms Net 30
	lohn Smith Credit Card [None]
🔗 Street	23 Main Street Customer PO# 5055
Map	Related Doc # Contract # 22
Ctty	Can Jose Web Order No Enter new credit
	CA 95119 Territory West Coast Card number if
	JSA Region CA applicable
	33-444-0900 Entered By DOUG
e-Mail	smith@abcman.com E Account # ABC002 Type CUS
Guantity Guantity Comments Ch if applicat Sales orde bring on	umber       Description       Model Number         0010       VMHEEL ASSY       Init       Sale Price       Tax %       Freight       Disc %       Serial Number       Complete         EA       2000.000000       0.000       29.00       0.00       Division       Area         Displayed       BASE CURRENCY       Division       Area       STORES       pc/MRP will         ange qty       Requires Alternate       Type       Resale       pc/MRP will         e, add additional comments.       Ex will be imported from the       Type       On Acct & Carry       Complete Field         ts will be imported from the       Labels       Qk       Can       Line item is paid.         er's General Info Field.       NUM       NUM       NUM

Part Number, 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 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 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 **Related Document** field is a 21 character scrollable field. It can be used to enter a related contract or document number.

The **Document Currency** & the **Displayed** currency fields require the optional **Alternate Currency Module** and if installed, will print using both currencies.

#### 10.2.5 Enter a New Invoice Step 5, Check Billing and Shipping Addresses

Date for	Vindows - Version 8.568 Optional Configuration	Entering a	n Invoice		
Invoice     Invoice # 000     SO# 000		e] Shipping A	or edit the Billing and Addresses, click on the ipping Addresses Tab		
Customer	Billing / Shipp Bill To Address	Display Map	y Item Info Ship To Address	Display Map	
Bill To	ABC MANUFACTURING		ABC MANUFACTURING		
Address	Accounts Payable		John Smith		
Street	123 Main Street		123 Main Street		
City	San Jose		San Jose		
State / Zip	CA	95119	CA	95119	
Country	USA		USA	,	
	J				
Item Part	Number De:	scription	Mo	odel Number	
0001 0000	000010 VVH	EEL ASSY			
Quantity	Unit Sale Price	Tax % Freig		lumber Complete	
3.000			29.00 0.00		
Comments	Displayed BASE	CURRENCY 🔽	Division	Area	
			Location	STORES	
			Tax Type R	(esale 💌	
Billing and	Shipping		Sales Type 🔽	On Acct & Carry 🔄	
Address					
automatical from the sa		ler Plate La <u>b</u> e	ls	<u>O</u> k <u>C</u> ancel	
nom the se					1
L					

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.

The **Payment Due Date** is the date the payment is due on. pc/MRP will automatically calculate by adding the term you entered plus the date of the invoice. You must simply begin with the word "NET." By example, a term of NET-60 or NET 60 will automatically calculate the payment due date 60 days beyond the invoice entry date.

An unlimited amount of **Comments** can be entered for each invoice line item.

Up to nine lines of **Notes** can be added to all Invoices by modifying the Configuration Menu's Boiler Plate Option. (Option #22)

#### 10.2.6 Enter a New Invoice Step 6, Check Delivery Information

Dec/MRP for Win Modules Tools Op	Entering an Invoice	
No. 10	[Creating a New Invoice] Click on the Delivery Tab to view delivery information. Unvoice Date 06/16/2011 Due Date 07/16/2011 Click on the Delivery Tab to view delivery information. E CURRENCY	
Custor	er Billing / Shipping <b>Delivery</b> Item Info Accounting Info	
Dest	ation Tracking Numbers (one per line) Track	
Case Me Tarif	493303030333	(gs
	It Number Description Model Number	
Quantity 3.	Unit Sale Price Tax % Freight Disc % Serial Number Complete	
Comments	Displayed BASE CURRENCY Division Area	
	Location STORES	
pc/MRP can tra FedEx, DHL, ar Service Pack	Postal you wish to track DHL Is [ Ok Cancel	

The ShipVia and FOB fields that 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.

Invoices and Shippers can be configured to print out the **Serial Number** or **Model Number** using the Boiler Plate Option. (**Option #22**)

If the **Serial Lot Number Module** has been purchased, do not enter serial numbers into the above serial number field. 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.** 

# 10.2.7 Enter a New Invoice Step 7, Check Item Information

pc/MRP for Windows - Version 8.568     Entering an Invoice
Criginal Qty and Previous Qty are displayed when editing but not when entering. Original Qty 3.000 Reference No. 1
Previous Qty 0.000 Reference No. 2 Sales Site Manufacturing Site Auxiliary Fields that can be used for custom reports Intra-Company Sale.  Item Part Number Model Number
0001       000000010       VHEEL ASSY         Quantity       Unit       Sale Price       Tax %       Freight       Disc %       Serial Number       Complete         3.000       EA       2000.000000       0.000       29.00       0.00       Division       Area         Comments       Displayed       BASE CURRENCY       Division       Area         Location       STORES       Tax Type       Resale       Sales Type       On Acct & Carry         Delete       Location       Sales Type       On Acct & Carry       Carread
Delete     Logbook     Boiler Plate     Labels     Ok     Cancel       Original Order Quantity     NUM

### 10.2.8 Enter a New Invoice Step 8, Check Accounting Information

pc/MRP for Windows - Version 8.568     Modules Tools Optional Configuration	ring an Invoice	
Invoice [Edit Mode]		Click on the Item Tab to
	62011 Check if Freight or Discount is taxable. m Info	Docume enter or edit item info BASE CUP Accounting Info
Tax Code CA13 ☐ Freight is Taxe ☐ Discount is Ta		
Salesman Bill Jones Sale Commission % 10.00 Licensor	Posted Check # Date Paid	Income Account to credit. COGs
Royatty Rate 0.00 Lice	man, Commission, nsor, Royalty from Sales Module	
Quantity     Unit     Sale Price     automs       3.000     EA     2000.000     or pa       Displayed     BASE     Option	ase and Additional Cost is atically imported from Sales rtmaster depending on how 35 in Settings and Utilities Will not be visible if option 17 is set to Off.	Model Number Number C Number C Are STC Resale The Check #, Date Paid and Amount Paid Fields are automatically updated when the invoice is paid and displayed when editing but not when entering.
 		On Acct & Carry
Invoice (c:\pcmrpw856\invoice.dbf)	Record: 1/1	Record Unlocked NUM

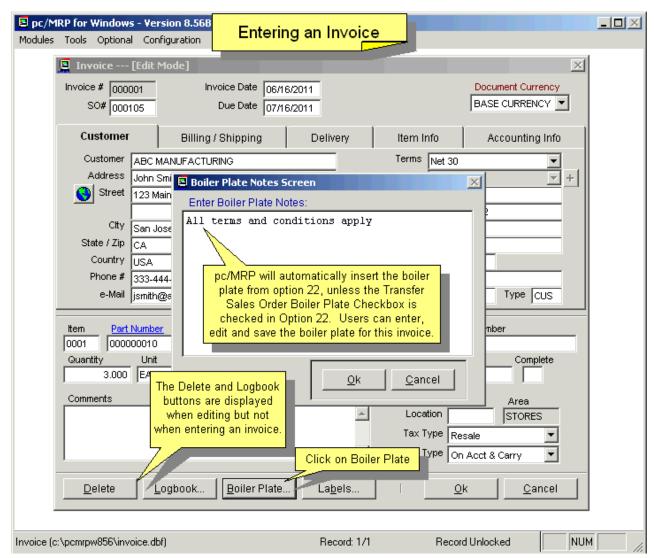
The Salesman, Sale Commission %, Licensor, Royalty Rate, and Income Credit Account are automatically inserted from the sales order.

The **Freight is Taxable** and **Discount is Taxable** Checkboxes are automatically inserted from the sales order. These fields should be checked if the freight or discount is taxable.

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 an debit by clicking on the corresponding ellipse button.

### 10.2.9 Enter a New Invoice Step 9, Enter/Edit Default Boiler Plate Notes



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 verbiage, only the invoice boiler plate will be used.

## 10.2.10 Enter a New Invoice Step 10, Press OK Button Finish or Add another Line Item

	<b>HRP for Window</b> s Tools Optiona	s - Version 8.568 Entering an Invoice
	Invoice	[Edit Mode]
	Invoice # 0000 SO# 0007	
	Customer	Billing / Shipping Delivery Item Info Accounting Info
	Customer	ABC MANUFACTURING Terms Net 30
	Address	John Smith Credit Card [None]
	Street	123 Main Street Customer PO# 5055
		Related Doc # Contract # 22
	City City	San Jose Web Order No
	State / Zip Country	CA 95119 Territory West Coast
		USA Region CA 333-444-0900 Entered By DOUG
		jsmith@abcman.com Entered By DOUG Account # ABC002 Type CUS
	Item Part	Number Description Model Number
	0001 0000	00010 WHEEL ASSY
	Quantity	Unit Sale Price Tax % Freight Disc % Serial Number Complete
	3.000	EA 2000.000000 0.000 29.00 0.00
the o di	n an invoice is s nhand qty and t emand qty will t vased in the inve module.	the on increased in the sales Sales Type On Acct & this line item.

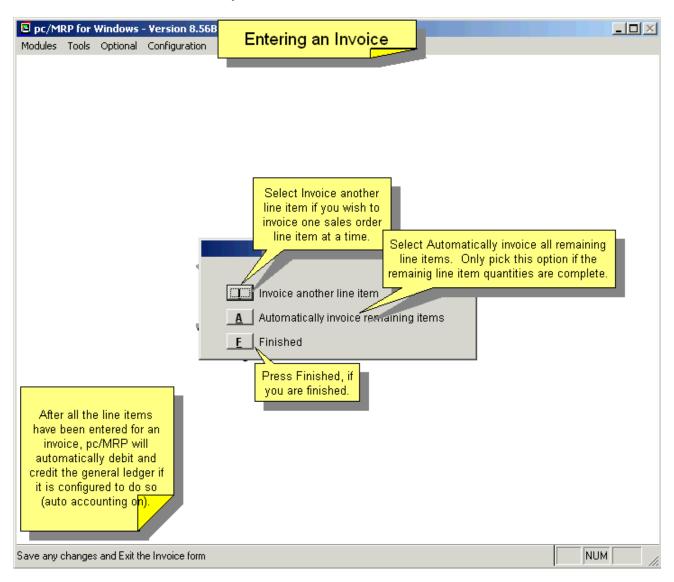
Press the **OK** Button to add another line item or finish the PO.

If the invoice quantity exceeds the sales order quantity, the user will be warned to proceed or cancel. 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),
- Invoice what is available,
- Re-enter the invoice, or
- Cancel.

Once the invoice item is accepted, the Sales Order's Quantity Shipped and Complete are updated and the part number's On-Demand and On-Hand quantities are decremented.

### 10.2.11 Enter a New Invoice Step 11, Add Additional Line Items or Finish Invoice



Once the initial line item has been invoiced, pc/MRP will prompt:

- I Invoice another line item (select this if you are invoicing partial quantities)
- A Automatically invoice the remaining line items (select this to invoice entire sales order)
- F Finished

When you are finished, you also have the opportunity to print, display, send to e-mail, or send the invoice to an HTML or PDF document and attach the invoice to an e-mail. Using programs like WINFAX users can also directly fax from pc/MRP. If an INVSHIP.FLG and INVLAB.LST files exist in your pc/MRP directory you will be prompted to print out shipping labels.

If Configuration, Settings and Utilities, Option 8, Auto Accounting is **On** for invoices, after all the line items have been entered for invoice, pc/MRP *will automatically* debit and credit the general ledger. A "**Y**" will be inserted into the invoices **Posted** Field.

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 invoices **Posted** Field.

When Accounting enters an **R** type transaction (Receives Payment) a "**Y**" will be inserted into the invoice's **Complete** Field and the **Amount Paid** Field will be increased by the amount paid.

# 10.2.12 Enter a New Invoice Step 12, Print Labels for a Customer.

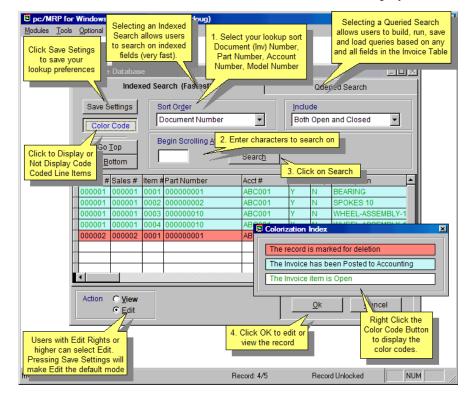
pc/MRP for Windows - V Modules Tools Optional Co	E Di	tering an Invoice			<u>_0×</u>
📕 Invoice [Edi	it Mode]				×
Invoice # 000001 SO# 000105	_	00/10/2011	_	Occument Currency	_
Customer	Billing / Shipping	g Delivery	Item Info	Accounting Info	
Addre	<b>Iress Labels</b> Mailing Address			× •	] ] +
ABC Job 	C MANUFACTURING hn Smith 3 Main Street n Jose, CA 95119 A		# of Labels to be printed Start Printing on Label #		
ttem 0001 [( Quantity 3. Comments	Output Type Sheet Fed Pin Fed Align	Output To Mailing (4 x 2-7/1 Stock (3-1/2 x 15 Custom Label	(16) NO CUSTOM	te	
	ia <u>v</u> e current settings as Logbook <u>B</u> oiler I	 	Ok O Click on Labels if y to print out addres		
Invoice (c:\pcmrpw856\invoice.	.dbf)	Record: 1/1	Record Ur	nlocked	

Pressing the **Labels** button will allow you to print out address labels for this customer. To create custom labels, please see chapter 15.4.22 for labels and custom label naming conventions.

### 10.3 Edit/View (Scroll/Delete/Undelete Invoice Line Items)

pc/MRP for Windows	s - Version 8.24B (User: doug)	
Modules Tools Optional	Configuration Manual	
Inventory •		
BOMs •		
Stockroom		
Purchase •		
Receive		
Work Order		
Sales Order		
In <u>v</u> oice	New	
Shipment +	Edit / View	
Address Book	Print +	
Accounting	Reports To edit or view an invoice, select	
Exit	Shipper  Modules, Invoice and Edit/View.	
	Index	
	Removed Marked Records	
	Remove over X Years	
	Print Shipping Labels Ware Arts	
-		
Make alterations to a Invoice	entry N	

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** Select the correct 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.

pc/MRP for Windows - Va Modules Tools Optional Cor      Invoice — [Edit Mode]      Invoice # 000001      S0# 000001	nfiguration Ma <u>n</u> ual	Document Currency BASE CURRENCY	The Posted Field is only displayed in the edit mode and is automatically filled in when the invoice is posted.
Customer Tax Code	Discount is Taxable Amo	Delivery Item Info Check # Posted Y unt Paid 0.00 ate Paid ( /	
Sale Commission % 1 Licensor dou Royalty Rate Original Qtv Previo In this e Invoice Q changed 0001 0000000	0.00     Credit A       1g     Purchas       5.00     Addition       2.000     Sa       example the tuantity will be d from 1 to 2.     Manufacture       Sale Price     Tax % Freight       20.000     0.000	Account se Cost 10.0000 nal Cost 0.00 ales Site 0 only display and are aut when acc Model Number 0.00 Disc % Serial Number Complete 0.00 N	#, Amt Paid, Date omplete Fields are ed in the edit mode tomatically filled in ounting receives mayment.
Delete Logboo	In pc/MRP Versions 8.20N and higer. user must have accounting e rights or higher to edit invoice that has been posted or paid.	Location       Fax Type       Tax       Press the OK But       save your change       an	

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**, 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.

Use the delete button to mark a record for deletion. Use the Undelete button if you wish to unmark the record for deletion.

In pc/MRP version 8.20N and higher, users must have Accounting Edit rights or higher to edit an invoice or receiver that has been posted or paid (requires Advanced Password Module).

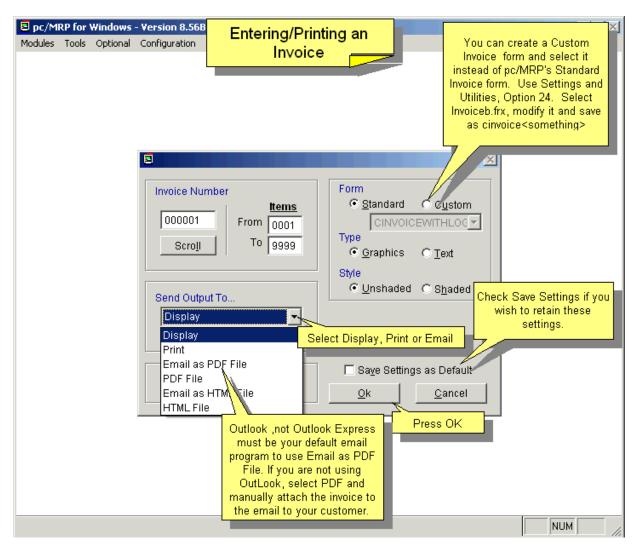
If a person edits or deletes an invoice with pc/MRP version 8.24 and higher, pc/MRP will allow the option to automatically adjust:

- 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 8.24A (Us)	er: doug)	- D ×
<u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u> Ma <u>n</u> ual		
Invoice — [Edit Mode]	display the screen shown below, offering to automatically	
Invoice # 000002 Invoi	adjust the original sales order Quantity Shipped and the Inventory Modules Onhand and On Demand Quantities.	
SO# 000105 D	ue Date With pc/MRP Versions 8.23 and lower, you must manually adjust these quantities in pc/MRP.	
Customer Billing	) / Shipp	
Custo	Days 💌	
St You have ch	anged the quantity of the invoice from 1 to 2.	
State / quantity and the correspondent Cou continue.	he system to automatically adjust the part's area //or the sales order's quantity ship, please select onding check box(s). Press the Proceed button to he Sales Order's Quantity Shipped	
Adjust Inv	rentory Area Qty down by 1 and On Demand Qty	
<u>item <u>r</u></u>	o adjust STORES	
2 Comments	Proceed Cancel	
	Click on the Proceed Button	ice for
	Sales Type On Acc to update the qtys	et the fering on the
Delete Logbook	Boiler Plate Labels   <u>Ok</u> sales order and inve areas.	entory
Invoice (c:\pcmrpw824\invoice.dbf)	Record: 2/2 Record Unloc	

If pc/MRP detects a QB batch number or an accounting transaction, it will display the transaction numbers that need to be edited.

## 10.4.1 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 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 invoice form uses invoice.frx and invoiceb.frx. See section 15.4.1 to create a custom invoice (cinvoice.frx).

Modules	Tools Opt	lows - Version 8.56B ional Configuration INVOICEB.FRX	Entering/Printir Invoice	ig an			
	6830 V: San Jo: USA	Print Pre re Arts II First ia Del Ord Page se, CA 9511		Dese Print Form	INVOIC PAGE NO. ALES ORD NVOICE D NELATED D SALESMAN CUSTOMER CUSTOMER FOB	DER DATE DOC # PH #	00001 : 1 : 000105 : 06/16/2011 : Contract # 22 : Bill Jones : 333-444-0900 : 5055 : Destination
	Account 123 Mai	NUFACTURING ts Payable in Street se, CA 95119		SHI P TO ADDR	ABC MAN John Sm 123 Mai: San Jose USA	ith n Stre	et
	SHIP VIA:	UPS : : Ground	TERMS: N	et 30		AC	CT: ABC002
	ITEM	PARTNO	QTYORD	QTYSHIP	BKORD	UNIT	PRICE
	0001 (	00000010	WHEEL ASSY	3	0	EA	2000.00

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.

# 10.4.2 Printing invoices on carbonless paper on laser printers

You can order the 3-part NCR carbonless paper by calling JC Paper in Mt. View, CA at (650)965-0983. Ask for the zero-form, straight sequence 3 part NCR pre-collated 8-1/2" X 11" paper. It comes in sets per package.

### 10.4.3 Printing invoices on carbonless paper on dot matrix printers

You can order pc/MRP's two part (5K-2990-2), three part (5K-2990-3) or four part (5K-2990-4) carbonless forms and matching double window envelopes (5K-DW3787) from Rapid Forms, telephone number 1-800-257-8354. Be sure to give the Rapid Forms Operator pc/MRP's Keycode Number **C20100**.

### 10.4.4 Printing Shippers

Once pc/MRP has displayed or printed the invoice, it will ask if you wish to print out a shipper for the invoice. The shipper can be folded in thirds and placed in a clear shipping envelope attached to the shipping box with the shipping address displayed. Configuration, Option 22 will allow you to enter Shipper boiler plate comments if you wish. The invoice's boiler plate will **NOT** be transferred to the shipper.

### 10.4.5 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.

# 10.5 Reports (Printout/Display Invoice Reports)

<b>NFP - C:\V794 (User: DOUG)</b> Modules Tools Optional Configuration Manual Developer Help	
Invoice Reports  I. Select Report Type	4. Select Sort By
All Records	Sort by
All for a Part Number All for a Customer Account Number	5. Select Display, Print, etc.
All for a Related Document Number All for a Division / Department All for a Model Number	Send Report to
All Records     All Records     Entered in a Date range	
C Due in a Date range 01/01/1975 11/08/2004 C Exactly 30, 60, and 90 Days Old	Report Type     O Standard C Custom
Include	CUSINV01.EFX
Open & Closed <u>3. Select Filter (Closed = paid)</u> Open Only     Closed Only	6. Press OK
O Over Due Only	Ok <u>C</u> ancel
243 bytes copied.	NUM

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.

GE ND.	1	·  >   100%		INVOI	CE REPORT			
	NVOICE NU	IBER" DATE SHIP	PART NUMBER	DE SCRIPTION	ACCOUNT PO:	QTY STED SHEP	TOTAL AM	BALANCE DUE
NVOICEND	000	001						
00001 000	001 0001	06/18/02	00000001	BICYCLE TOP ASSEMB	ABC001	1.000	1500.00	1500.00
00001 000	001 0002	06/19/02	00000001	BICYCLE TOP ASSEMB	ABC001	1.000	1500.00	1500.00
					TOTAL	2.000	3000.00	3000.00
NVOICEND	000	002						
00002 000	002 0001	06/19/02	000000001	BICYCLE TOP ASSEMB	ABC001	1.000	1500.00	1500.00
					TOTAL	1.000	1500.00	1500.00
					TOTAL:	3.000	4500.00	4500.00

### **10.6 Printing Additional Shipper Labels**

DC/MRP for Windows - Version 100 (1998)	ersion 8.40X (User: DOUG)				
To utilize this option wh created both the INV INVSHIP.FLG files mu pcmrpw folder. This op users to increase or number of labels (boxe by changing the "Box shown above. Each lab "1 of 10", "2 of 10"	en invoices are LAB.LST and ist exist in the ion also allows decrease the s) per line item (es" count as el will be labeled	Help		Quantity Boxe	X
PUBLICA 6830 VIA SUITE 10		c	Shipper# ustomer PO # Shipped Via FOB	000004 5055 DHL::Ground Destination	
ATTN: RE 1234567	SOUTHWEST RECV STREET			C <u>D</u> isplay © Prin <u>t</u> er m SHIPPER.LBX • abel # 1 •	
Allo	ify Individual Box <u>Q</u> uantities) <mark>vs the users to specify</mark> 1e qty in each box	Help	1 <u>0</u> 7	Cancel	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** file 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 INLAB.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 report. The first line of this file will read, **SHIPPER.LBX = Standard pc/MRP shipping label**. Note that at the bottom of the picture above you see the text **Standard pc/MRP shipping label**, this text comes from the **INVLAB.LST** file. When editing the **INVLAB.LST** add an additional line by pressing enter at the end of the previous line. Then follow the same structure as the first line. When you select the custom report, the custom comment will show up at the bottom of the screen to help select the correct custom label.

If a file named INVLAB1.upf and INVLAB2.upf exist, pc/MRP will follow the commands in these 'in' and 'out' program files to display a custom screen which can also set up custom variables and arrays read by the custom label '.FRX' file.

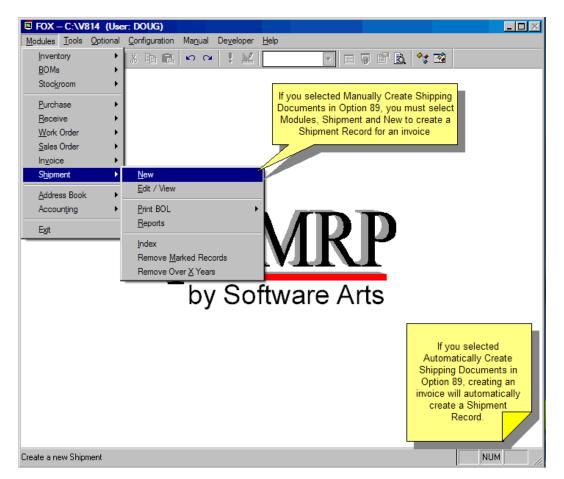
Here is a sample label generation:

pc/MRP for Windows - Version 8.40 Modules Tools Optional Configuration			_ 🗆 .
Report Designer - shipper.lbx - P	rint Preview	× 4	< <u> </u>
FROM:	SHEP TO:	FROM:	SHEP TO:
SOFTWARE ARTS INC FUELICATION DIVISION 6830 VIA DEL ORO SUITE 101 SAN JOSE, CA 95119	ABCD MANUFACTURING SHIPPING ATTN: RECEIVING 1234567 SOUTHMEBET RECV STREET MONNTAIN SHIP, CA 12345-SHIP USA-SHIP	SOFTWARE ARTS INC RUBLICATION DIVISION 6833 VIA DEL ORO SUITE 101 SAN JOSE, CA 95119	ABCD MANUFACTU ATTN: RECEIVID 1234567 SOUTHP MOUNTAIN SHIP. USA-SHIP
CUSTOMER PO #: 5055		CUSTOMER PO #: 5055	
SHIPPER #: 000004	ITEM: 0001	SHIPPER #: 000004	ITEM
PART #: 000000010		PART #: 000000010	
DESCRIPTION: Wheel Assy		DESCRIPTION: Wheel Assy	
BOX QUANTITY: 5	UNIT: EA	BOX QUANTITY: 5	דואט
вох	1 of 2	BOX	2 of 2
Ind	u do not check "Specify ividual Box Quantities", MRP will devide the qty per box evenly.	Since 2 boxes were specified, 2 labels were created.	×

- 10.7 Queried Search Overview (see 15.14.1)
- 10.8 Indexed Searches (see 15.14.2)
- 10.9 Index (see 15.14.3)
- 10.10 Remove Marked Records (see 15.14.4)
- 10.11 Remove Over X Years (see 15.14.5)

# **10.10 Shipment Module**

### **10.10 Overview**

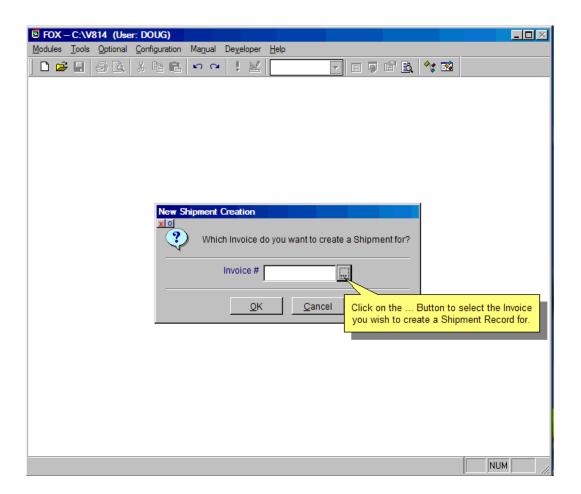


pc/MRP's new shipping module integrates pc/MRP with UPS's OnLine WorldShip 8.0 software. Users will no longer have to re-enter the customer addressees into UPS.

Users can also select 'BOL' from the Carrier Type dropdown list and create a Bill of Lading shipping document.

**Note on Option 89:** If set to automatically generate a Shipment record for an invoice, there must be a 'shippable' partnumber on one of the invoice's line items. Otherwise **NO** 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.

10.10.1 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.

FOX -	- C:\V	814 (User: DOU	JG)								_ 🗆 ×
odules	<u>T</u> ools	Optional Config	juration	Ma <u>n</u> ual	De <u>v</u> eloper	<u>H</u> elp					
D 🖻		6 Q. X I	e R	00	! ! 🗹		- E 9		** 🖾		
COLOR OF COLOR	oment	(New Shipment	)								×
x10       Not Assigned       Invoice # 000001         Ship Date       03/24/2006       Sales Order # 000001         Recipient ID       ABC001          Company       ABC MANUFACTURING COMPANY         Attention       ATTN: JOE SMITH         Address       111 SOUTH MAIN STREET				Ship Method Package Type	Carriel UPS 2nd Day Air Package Prepaid		Select Select Selec Cha	ct UPS Ship Metho Package T It Billing Op Inge UPS # ct or 3rd Pa	vpe tion if		
City RICHVIEW State / Zip CA S8888			UPS Account # WX0164 UPS Weight 22.4 Weight auto calculated								
Country USA Telephone 980-112-1111 Faxno 980-112-1112					Add C.O.D Ar Confirmation						
	Email								Chec	k if applicab	le
Ship	Inv Iter 0001	m Part Number		Descrip			Qty 2.0000	Unit Weight 1.0000	Tot. Weight 2.0000		<u> </u>
- -	0002	000000002		SPOKES	-		2.0000	0.2000	0.4000		
		12345678901234	2.0000	10.0000	20.0000	0					
<b>I</b>										K to save	
shipme	nt					Record: 1/1		<u>O</u> K Exclusive		Cancel	

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.

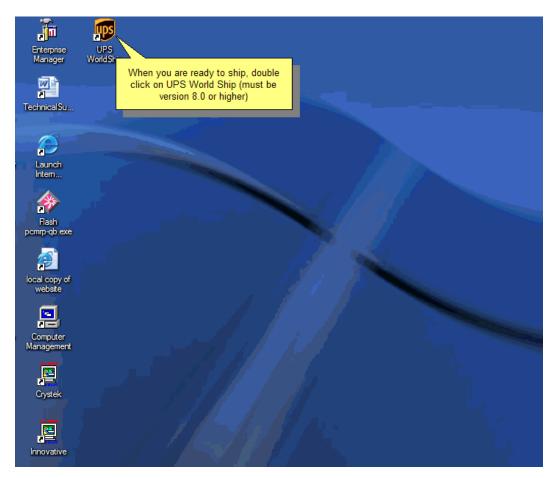
**NOTE:** Parts are checked as shippable on the Inventory part's 'Miscellaneous' tab. **NOTE:** Unit weight comes from the partmaster (see 5.1.3.10 for the definitiuon).

If Freight 'Collect' or 'Bill to 3<sup>rd</sup> Party' is selected as a billing option, you will have to enter the customer's UPS number after interfacing with the UPS online software.

All items must be checked (default) for the correct weight to be calculated for the shipment. This is NOT used to include or not include a line item for a shipment. It is assumed that the all invoice line items are shipped on this document. You will not be able to partially ship an invoice and expect to ship the rest later. Create multiple invoices if you plan on splitting shipments.

Finish the data entry by pressing the 'OK' button to save the record.

# 10.10.3 Step 3 Go to the UPS WorldShip OnLine interface.



UPS WorldShip OnLine version 8.0 should already be installed upon you 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.

Section 15.17 and 15.18 of the pc/MRP manual will help you set up your UPS WorldShip interface.

# 10.10.4 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
<u>File</u> <u>E</u> dit Acti <u>v</u> ities <u>T</u> ools UPS Web Access	UPS OnLine Connect Window Help
	Connection Assistant
Ship To   Ship From   Distribution   Customer I <u>D</u> :	Egport A Single End Of Select Keyed Import Select pcMRP map
Company or <u>N</u> ame: Attention:	Keyed Import       Import         Automatic Export After Processing Shipment       1         Automatic Export During End Of Day       Import         Automatic Export of HAZMAT/DG After Processing Shipment       More
Street:  Room/Floor/Address 2: Department/Address 3:  Country: Postal/ZIP Code ®: United States	Bill to Third Party  (Printed on L file does not  appear, select More
City:     State/Prov:       Telephone:     Email Address:       ( ) - [ ]     I       UPS Account Number:     Tax ID Number:	(Printed on Label) Weight (pounds) Package: Shipment: 0.0 Electronic Scale Activated
Shipper: Profile:	Pkg:     H     H     H     Is     NEW     Process       Add     1     Pkgs     Delete     Pkg     Fit
	Ver: 8.0.14 XOFY Pending: 0 Shpmt(s), // K CAPS

When the UPS WorldShip starts, select the menu item "**UPS OnLine Connect**", then "**Keyed Import**", and lastly, "**pcMRPUPS814A**". The suffix of 814A means that pc/MRPs UPS interface works with pc/MRP versions 8.14A and higher.

### 10.10.5 Step 5 Enter the invoice number to ship.

<b>FOX – C:\V814 (User: DOUG)</b> <u>Modules</u> <u>Tools</u> <u>Optional</u> <u>Configuration</u> Ma <u>n</u> ual Der	
and hit Enter	Phyoice Number you wish to ship pr. Do not click the Close Button, u have Processed all Invoices.
Shi       Enter import key:         Cus       000001         Cor       Image: Cus         Attention:       Image: Cus         Street:       Image: Cus         Boom/Floor/Address 2:       Department/Address 3:         Country:       Postal/ZIP Code ©:         United States       Image: Cus         City:       State/Prgv:         Telephone:       E-mail Address:         ()       Image: Tax ID Number:         UPS Account Number:       Tax ID Number:         Shipper:       Profile:         WX0164       UPS Standard	? X       Options       Detail       Reference         Jose       rt       Package         Vice:       Package         Vice:       Package         Vice:       Package         Saturday Delivery       Package         Guaranteed Time:       Billing Option:         Prepaid       (Printed on Label)         Bill to Third Party       (Printed on Label)         Weight (pounds)       Shipment:         0.0       Shipment Cost         Package:       Shipment:         0.0       \$\$0.00         Electronic Scale Activated       \$
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. Do NOT 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.

### 10.10.6 Step 6 Verify the shipment data.

EFOX – C:\V814 (User: DOUG)	_ 🗆 🗵
File       Edit       Activities       Loo         Shipping       Pickip       pc/MRP's Address ID is purposely not inserted       VI2       Keps         Ship To       Ship       purposely not inserted       Service is automatically inserted from Shipment       Package is inserted from Shipment         Customer ID:       V       Update Address Book       Residential Address       Service       Package       Package         ABC MANUFACTUP       Customer's Address is automatically inserted       Shipment       Package       Package       Your Inv         Attention:       automatically inserted       Saturday Delivery       Guaranteed Time:       Billing Option:       Package       Vour Inv         Street:       111 SOUTH MAIN STREET       Reference Number       Double       Package       Pirited on Lal         Country:       Postal/ZIP Code @:       Bill to Thi       Billing is automatically inserted       Pirited on Lal         City:       State / Prov:       Richview       CA       Veight (poulder)       Pirited on Lal         Veight (poulder)       Ca       Email Address:       pinent:       Click       Shipment:         (980) 112-11111       Email Address:       0.0       Sot       Click <th>automatically om shipment.</th>	automatically om shipment.
Shipper: WX0164 UPS Standard Pkg: H  1   H of 1 Repeat 1 Pkgs Modify Shpmt F10	
Ver: 8.0.14 XOFY Pending: 0 Shp	mt(s). // //

Verify the data automatically filled in by UPS WorldShip.

Please note several items are not required. The Customer ID and UPS Account Number are examples. Required data label fields are usually in a 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.

### 10.10.7 Queried Search Overview (see 15.14.1)

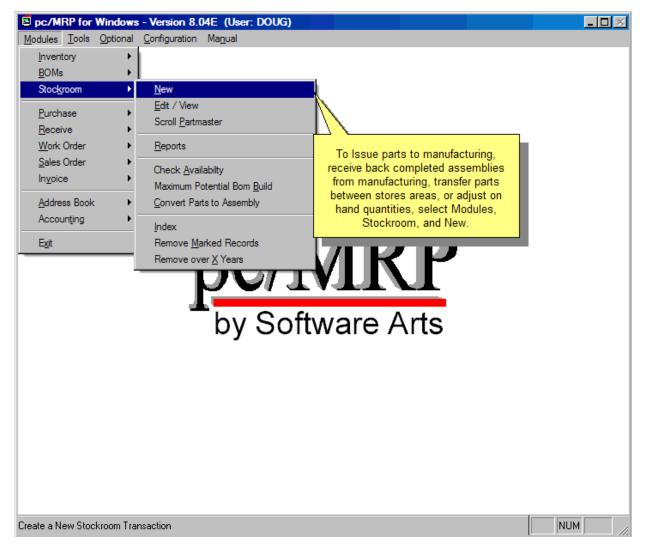
10.10.8 Indexed Searches (see 15.14.2)

#### 10.10.9 Index (see 15.14.3)

### 10.10.10 Remove Marked Records (see 15.14.4)

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

# **11 Stockroom Module**



### 11.1 Overview of the Stock Transaction Module

The Stock Room Module allows users to: receive parts from receiving, issue parts and sub-assemblies to manufacturing, receive parts from manufacturing as completed assemblies, backflush piece parts, issue parts and assemblies to shipping, issue parts from one inventory area to another, and adjust the onhand quantities.

An online slideshow is located here: http://www.pcmrp.com/mrp101/stkroomnew.htm

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

By Selecting <u>M</u>odules, <u>S</u>tockroom, and <u>N</u>ew pc/MRP will display a list of all of the stockroom transactions available for users to enter. Simply click on the radio button or press the key of the letter 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.

# 11.2.2 Issue parts/sub-assemblies to a sales or work order Step 2 – Select Issue

pc/MRP for Windows - Version 8.04E (User: DOUG)	- <b>D</b> ×
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual	
Select stock transaction process	
I - issue parts only for an assy(s) infinite levels deep to mfg	
C L - issue additional parts not listed in the V, or breakage. (not for makeup shortage)	_
Select the "I" transaction to issue a top level assembly(	
C E - issue multiple make-up shortages to this function once and only once to issue parts for every	
© S - issue parts or assemblies to Shippii sales/work order that is issued to manufacturing.	
C B - transfer parts Between inventory storage areas	
$\underline{\mathbb{C}}~\underline{\mathbb{R}}$ - Receive completed assemblies from mfg and Back Flush consumed component parts	
C U - receive Unused returned parts from mfg (neg issue)	
C ⊻ - receive parts from ReceiVing	
C A - Adjust inventory onhand qtys	
C I - reTurn all parts/assys issued to a sales/work order	
OK Cancel	
NUM	11.

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.

All manufacturing jobs start with the I (for issue) type transaction and end with the R (for receive) type transaction. Users can only use the L, M, F, B, U, and T type transactions after performing the I transaction and before performing the R transaction.

Select the stock room area you wish to issue the parts from. pc/MRP cannot issue from multiple areas during the I type transaction. If a users wishes to issue part of the build from one inventory area and other parts from a different inventory area, users will have to issue the I transaction short, and perform make up transactions, **M**, **F**, and **B**, transactions to issue from the alternate area.

Enter the account number to credit for these parts 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 display the next available stock transaction number. Press OK to accept the number.

Answer **Yes**, if there is a sales/work order number for this transaction. pc/MRP will then allow you to scroll by sales/work order number, part number, or account number for the correct sales/work order number.

Please Note: You must enter an existing Sales or Work Order Number; otherwise pc/MRP will not be able to decrement the WIP quantities correctly when the Sales/Work Order is received as assemblies from manufacturing.

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

pc/MRP for Windows - V	
Modules Tools Optional Co 2. Select Assembly (IF available) ther	
you want pc/MRP to issue subassys if then parts when there are no more su	
available. Select Parts Only if you v	vish to
issue parts only and no completed sub you Select Sub-Assemblies Only the f	
Stock Issue options are available. Never ask, will	issue
subassys only. Ask when short, will issue parts or subassys if subassys ar	
Always ask, will ask, parts or subassys	
comes to a subassy.	
	3. Select Print
	Send Report to
	Display
	4. Select Custom or
When Issy in a Sub-Assembly, Issue:	Standard Report
Assembly (IF Available), then Component parts C Parts Only	Report Type
C Sub-Assemblies Only Never Ask	Standard O Custom
√ Issue Parts Automatically	
P. Ioda Fallo Adomatically	<u>O</u> k <u>C</u> ancel
2. Check, "Issue Parts Automatic: wish to have pc/MRP issue the	
automatically. pc/MRP will stop an	d allow you
to edit or OK transactions that are marked as "Serialized" in the inventor	
	NUM ///

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-assemblies.
  - 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.

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.

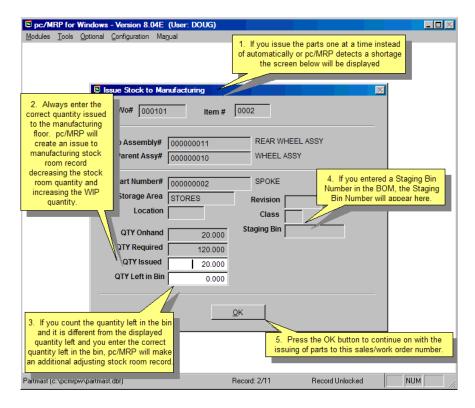
•

# 11.2.4 Issue parts/sub-assemblies to a sales or work order Step 4 – Select Line Items

pc/MRP for Windows - Versi		er: DOUG)			_ <b>_</b> X
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfigu	uration Ma <u>n</u> ual				
I Select	ealee order lir	itome to	be issued to manufacturing		
Receive		Item #	Part Number	Quantity 🛆	
	000101	0001	000000010	4.0000	
	000101	0003	00000010	2.0000	
	Check the sal you wish to				
	you wish to	rissue par			
	1			▼ 	
Sales ord	ler line items u	navailable f	or issuing		
Line item	0002 has alre	ady been is	sued to mfg (ISSTMF = "Y")	<u> </u>	
			Line items th	at can not be issued and t	he
				ey can not are listed here	
Sele	ect All Se	lect None	Ok	Cancel	
Iss	ue parts to al			OK to issue parts to	
	on this sale:	s order	the s	elected line items	
Salesitemcursor			Record: 1/2	Exclusive	NUM //

Select the line items on this sales order you wish to include on the 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.

### 11.2.5 Issue parts/sub-assemblies to a sales or work order Step 5 – Handle any Shortages



If you issue the parts one at a time instead of automatically or pc/MRP detects a shortage the screen shown above will be displayed. Option 45 can be set to default the Qty Issued Field to the quantity required or the quantity available. We recommend you set Option 45 to the Quantity Available and always inset the actual quantity issued (this will keep your WIP straight). If you set Option 45 to Required, you do not answer 'Yes' to track serial numbers, and you have checked Automatic issue, the screen below 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, and you enter the correct quantity left in the bin, 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.

### 11.2.6 Issue parts/sub-assemblies to a sales or work order Step 6 – Record Serial Numbers

If you have activated pc/MRP's Advanced Serial/Lot Number module, pc/MRP will ask if you wish to enter serial numbers. If the serial numbers entered are past their expiration date the user will be warned to cancel or continue.

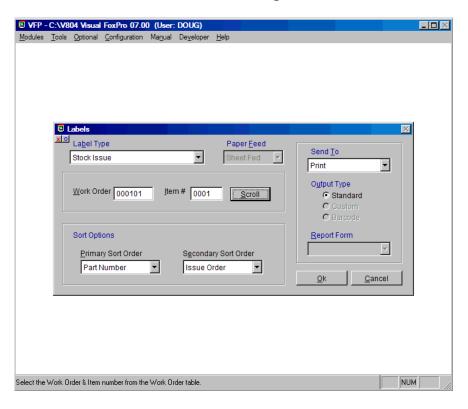
Furthermore, if you have changed the QTY Left in the Bin field on the *Issue Stock to Manufacturing* screen, the serial lot number module has been activated, and the part is serialized, the *Adjust Serial/Lot* button will appear.

SERIAL/LOT NU	MBER LIST					>
PARTN	0 00000009	SPOKE	S (WHEEL SPOKE	:S)		
SERIAL/LOT #	VENDOR LOT #	EXPIRE DATE	SERIAL/LOT QTY	ADJUST QTY	NEW SN/LOT QTY	<b>_</b>
13243456	SAM001	11	100.0000	0.000	0.000	
5678901001	SAM001	11	3200.0000	0.000	0.000	
		<u> </u>	1			<b>–</b>
<u> </u>						
	1			. 1		
New	<u>E</u> dit			<u>0</u> k		

If you want to adjust serial/lot number, click the Adjust Serial/Lot button. You will get a list of the existing serial lot numbers from the master serial lot number table for that part as shown on the *Serial/Lot Number List* Screen. If you would like to enter a new serial lot number, click on the **New** button, you will get a screen similar to the Serial Lot Number Adjustment Screen. Enter the necessary fields for the serial/lot number and click Ok to save.

If you would like to adjust the serial lot quantity for an existing serial lot number, select the serial lot number, and click the **Edit** button, you will get the *Serial Lot Number Adjustment* Screen. Entering a negative number into the Adjust QTY field will bring the serial/lot quantity down and entering a positive number into the Adjust QTY field will bring the serial/lot quantity up. Click the **Ok** button to save the adjusted serial lot number. When you are done with entering and adjusting the serial lot numbers, click Ok on the Serial/Lot Number List screen. All of the newly entered serial numbers will be saved into the master serial lot number table, and the adjusted serial lot numbers' SNLOTQTY field in the master serial lot number table will be replaced by the value in the NEWSNLOTQTY field of the cursor. An adjustment entry will be created in the detail serial/lot number table for each adjusted serial lot number.

### 11.2.7 Issue parts/sub-assemblies to a sales or work order Step 7 – Print PIC List/Labels



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.

In versions 7.50 and higher users can create a flag file allowing labels to be created for the items being issued to manufacturing. The flag file is **isstklab.flg**.

If this file is present in the pcmrpw directory the screen shown above will appear.

This option allows users to select various criteria, a specified work order, and multiple output types for the labels to be created.

# 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 finished sub-assemblies issued.

- Select the stock room area you wish to issue the parts from.
- Enter the account number to credit for these parts if required to do so by accounting, otherwise, leave this space blank.
- pc/MRP will display the next available stock transaction number. Press **OK** to accept the number.
- Answer Yes, if there is a sales/work order number for this transaction.
- Please Note: You must enter an existing Sales/Work Order number; otherwise, pc/MRP will not be able to decrement the WIP quantities correctly when the Sales/Work Order is received as assemblies from manufacturing.
- Enter the Part or BOM number and the quantity you wish to issue.
- Enter **Yes**, if you wish to track lot numbers.
- 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(s) as a completed assembly(s).
- If you choose to issue the assembly as component parts, pc/MRP will issue the component parts. <u>Once again</u> enter the **date** and **quantity** of the assembly you wish to issue (pc/MRP will not change the onhand quantity of the assembly at this time).
- Answer **Yes**, if you wish parts to be issued automatically.
- When it comes to a sub-assembly for that kit, pc/MRP will ask "Issue parts or Sub-Assemblies?" Select **Sub-Assemblies** if you wish to issue the sub-assembly as completed sub-assemblies. Select **Issue Parts** if you wish to issue the sub-assembly as parts on another lower level "L" type transaction that you will enter after you have finished issuing parts at this level.
- Creating a 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' (ISSTMFG) field. This is not recommended, as pc/MRP will not allow an 'I' type issue transaction to that Sales/Work Order afterwards.

# 11.3.2 Importing Part Number and Quantity information

Importing creates a series of "L" type Stockroom transactions from a comma separated ASCII 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:

DATA	ТҮРЕ
Part Number	6-15 Character
Quantity Issued	Numeric
SO/WO Number (leading zeros)	6 Character (optional)
SO/WO Item Number (leading zeros)	4 Character (optional)
Issue Area (same as area name)	8 Character (optional)
Lot Number	6 Character (optional)
Quantity Required	Numeric (optional)

The following screen allows configuration of the import process.

8	×
Location and Name of the ASCII file to	Import
	<u> </u>
SalesWork Order Information C Automatic SO/WO Item NONE 0001 Scroll	Issuing Area          1 STORES         Chart of Accounts         If Automatic         If Manual
Lot Tracking	C Save Option Settings

- Enter the Location and Name of the ASCII file to Import or use the FIND button to pick it from the directory tree.
- 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 importation process, an error report will be available after completion.

## 11.4 M - Issue Makeup or Shortage Parts to Mfg

We strongly recommend using the stockroom's P option instead of the M or F option 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.

For stockroom transactions **P**, **M**, and **F** if option 66 in the settings and utilities is set to yes, the original transaction date will be replaced by the date of when the makeup shortage issue is performed.

For versions 7.71A an lower, pc/MRP increases the quantity issued in the original stockroom transaction record.

With versions 7.71B and higher, 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.

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

We strongly recommend using the stockroom's P option instead of the M or F option 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 by 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 may 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.

For stockroom transactions **P**, **M**, and **F** if Option 66 in the settings and utilities is set to yes, the original transaction date will be replaced by the date of when the makeup shortage issue is performed.

### 11.6 P - Issue Multiple Makeup Shortages from a Single Inventory Area

100	pc/MRP for Windows - Version 8.04E (User: DOUG)										
	s <u>1</u> 0	ois	Optiona	a <u>C</u> oniigur	allon Ma <u>n</u> ual						
_									intend to	quantity you issue to fill hortage.	
	📮 ls:	ue :	Shorta	ge Make-ı	ups from STORE	S .					
[	Wor	_	ltem #	Stk Tran #		Description	Shortage	• •	Date Req	Customer Ic 🔺	
	▶ 000	_	0001	000004	00000001	BEARING 3.000D >	7.000		09/25/2005	ABC001	
	000	107	0001	000002	00000002	SPOKE	40.000	0.000	12/12/2005	ABC002	
[			_								
L			F	rint/Displa	ay a PIC List of					<b>V</b>	
1	4			shortage	es to be filled			int/Display			
								the list			
		_	-				7/				
		~	Gene	rate an Iss	ueList		tput to	Output Fo			
			Г	Seperate	by Work Order	Prir	nt 💌	Standard	Form	<b>▼</b>	
				Seberate							
							ailable to fill th	e shortage			
		Qu	antity a	available fo	or Part # 000000	001					
					25.000			<u>O</u> k	<u>C</u> ano	cel	
				,							
		_									
Stktmp (	c:\doc	ume	~1\dou	g\locals~1\l	temp\43260177.db	f) Reco	rd: 1/2	Exclusive		NUM	

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 so it matches the quantity issued. It will create a new stockroom issue record using the current cost found in the partmaster.

- 1. First, select the area where the parts will be issued from.
- 2. Second, 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.

Users can also select to 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 item(s) has been selected and the user presses **OK**, the user will be prompted to track serial numbers as needed.

For stockroom transactions **P**, **M**, and **F**, if **Option 66** in the settings and utilities is set to yes, the original transaction date will be replaced by the date of when the makeup shortage issue is performed.

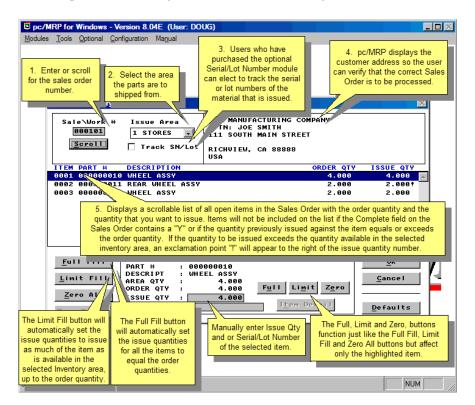
**NOTE:** The 'P' type transaction must have a positive quantity on hand in the chosen inventory area in order for the shortage to be displayed.

# 11.7.1 S - Issue Parts or Assemblies to Shipping

Enter an "S" to issue parts or assemblies to shipping.

This option was created for companies that **do not** 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 versions 8.04E and above will not using 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.



### **11.7.2** 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.

# **11.7.3** In the upper right corner of the window:

Displays the customer address so the user can verify that the correct Sales Order is to be processed.

### **11.7.4** 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 0001 on the example picture on the previous page.

## **11.7.5** 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.

### 11.7.6 The Default Settings window: (The initial default settings are shown.)

Default settings for Issuing to S	hipping 🛛 🔀
START WITH Issue Quantities © Order Quantity © Available in Area © Zero	<ul> <li>□ Update quantities when Area changes</li> <li>✓ Warn if over issuing against Order</li> <li>✓ Warn if insufficient quantity in Area</li> <li>□ Track Serial/Lot Numbers</li> </ul>
Issue Area 1 STORES 🔻	<u>S</u> ave

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 activated for those users who have purchased 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.

### 11.8 B - Issue Transfer Parts Between Inventory Areas

If you select to transfer	parts between areas the scr	reen shown below will	be displayed.

to another an	ted "Enter" to transfer parts ea, the screen shown below vill be displayed.	
3. Enter quantity To Area. 2 TEST/MRB  Quantity 5.000	This is an assembly Number 000000010 Transfer © Component Part(s) Only © Sub-Assembly(s) Then Pe © Top Assembly 00000010 pt passembly: 000000010 Display	
Next Transaction Number	<u>Qk</u> <u>Q</u>	ancel

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 a RECFB record. Transferring inventory from an alternate storage area into another alternate storage area creates both an ISSTB and RECFB record.

<b>E</b> 1	c/MRP for Windows - 1	/ersion 8.20F		
	<ul> <li>xc/MRP for Windows = 1 lules Iools Optional Q</li> <li>2. Enter the Related Document Number for tracking purposes.</li> <li>3. Select area you are transfering parts from</li> <li>3. Select area you are transfering parts to</li> </ul>	wrliguration Mague If you selected "I to another area, t will be	to Import ASI Find If Short C Transfer Full Quan C Transfer Available C Always Ask If Short I Issue Serial Lot Nurr	ocate the comma delimited Cli file that contains the part numbers and quantities.

pc/MRP Versions 8.15A and higher contain the option to transfer parts between inventory areas using an ASCII comma separated list of part numbers and quantities. If you select to use such a list the screen shown above is displayed.

## 11.9.1 R - Receive Completed Assemblies from Manufacturing

pc/MRP for Window					
Modules Tools Optional	Check sales sales back Selecter Receiver unes ✓ 00010 00010 00010	Magual the line items on order to be receiv from manufacturi Order Item # 1 0001 1 0002	this red ng Part Number 000000010 000000011 000000010	back i change in th Quantity 4.0000 2.0000 2.0000	are not receiving the full amount, the quantity here his screen. **
Salesitemcursor			Record: 1/3	Exclusive	NUM ///

This module allows completed assemblies to be received from manufacturing back into the stock room. pc/MRP uses the following pseudo code when completed assemblies are returned from manufacturing to the stock room:

- Find the stock transactions 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 versions 7.00 and lower do not alter the original quantity required. Jobs that are received back in full with shortages still outstanding will still show up as short as the quantity required is still greater than the quantity issued. The stockroom record can be edited so that the quantity issued equals the quantity required. pc/MRP versions 7.01 and higher decrease the quantity required to match the quantity issued. As such, versions 7.01 and higher 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 data base 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.

Creating a text file, LISSUPWO.FLG, with notepad in the pcmrpw directory will force pc/MRP to insert a 'Y' into the Sales/Work Order ISSTMFG field. This is not recommended, as pc/MRP will not allow an 'I' type issue transaction to that Sales/Work Order afterwards.

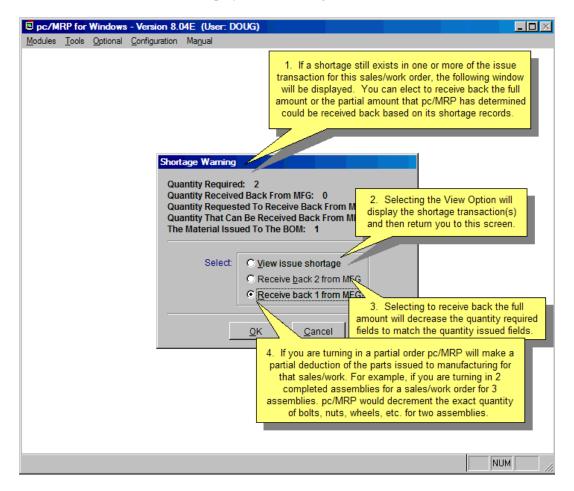
With pc/MRP versions 8.10P and higher, creating a file named "AllowPartIssRec.flg" with Notepad, will allow pc/MRP to receive back a Sales/Work Order line item that contains an inventory part instead of an assembly. Software Arts does not recommend using this option. It will remove from WIP all the parts issued to that Sales/Work Order line item and increase the quantity of the part listed on the Sales/Work order line item.

## Please 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.

## 11.9.2 Receive Back Completed Assemblies Shortage Warning

With pc/MRP versions 7.73 and higher, if pc/MRP determines that the work order or sales order you are receiving back can not be received back in full, it displays the following screen.



This screen allows users to quickly determine the status of the build. Users can see the quantity required, quantity already received from manufacturing, the quantity the user has requested returned back from manufacturing, and the calculated quantity that can be returned based on the material issued thus far. Users can also view the shortage report for this build and print the shortage report. If users choose to view the shortage report, once they are finished viewing the report, they will be returned to this status window.

After entering **R** type transaction pc/MRP will ask for the number of labor hours required to complete this assembly. With versions 7.73 and higher, you can populate the labor hours from the Employee Time Tracking

module by setting Option 79 within the Settings and Utilities menu. The average labor cost entered into the transaction can be set to be derived from the employee pay rates or Option 6 from within the Settings and Utilities menu. If you select the average labor cost to be derived from the employee pay rates, the following formula will be used:

SUM of different employees

(employee pay rate \* work hour + employee pay rate \*overtime \* overtime pay rate factor) total hours of employees

pc/MRP will display the next available stock transaction number. Press **OK** to accept the number. If there is a sales or work order number for this transaction, enter **Yes**, and enter the sales order number. pc/MRP will use the Sales/Work Order Number to determine which and how many part(s) or assembly(s) should be received.

pc/MRP will ask if you wish to track Lot Numbers.

Enter the **Quantity** of assemblies or parts being returned from manufacturing. If the quantity of assemblies being turned in matches the quantity of assemblies originally issued to manufacturing, all of the items issued to manufacturing for the sales/work order number will be deducted from WIP. If a partial quantity of completed assemblies is turned in, pc/MRP reduces the quantity in WIP as described above.

The **Onhand quantity** of the assemblies or parts will increase in inventory.

The Quantity Assembled will be increased in the Sales/Work Order.

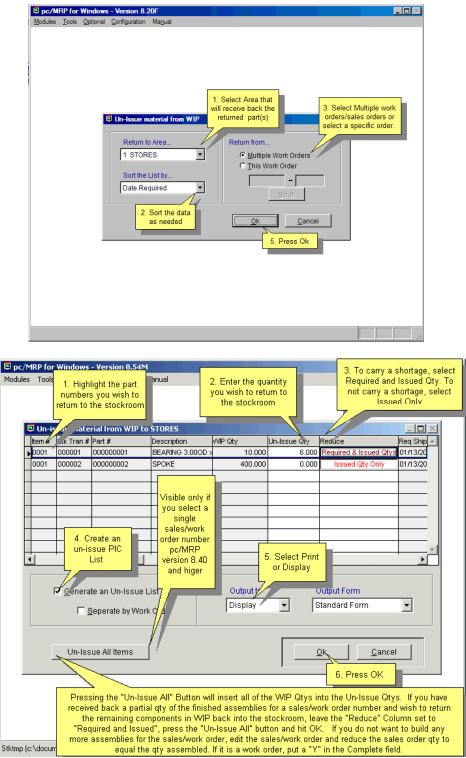
If it is for a Work Order, and the quantity assembled is equal to or greater than the original quantity required, a "Y" will be placed in the **Complete** Field.

## 11.10 U - Receive Unused Returned Parts from Manufacturing

Check out the on line slideshow for this transaction selection here: http://www.pcmrp.com/mrp101/stkroomselectunissue.htm

Dec/MRP for Modules Tools	Receiving back unused parts from manufac pc/MRP Versions 8.54A and higher	
5	ielect stock transaction process	
	<ul> <li>C I - issue parts only for an assy(s) infin</li> <li>C L - issue additional parts not listed in</li> <li>C M - issue individual Makeup or shortage</li> <li>C P - issue multiple make-up shortages</li> <li>C E - issue multiple make-up shortages</li> <li>C B - issue parts or assemblies to Shipp</li> <li>C B - transfer parts Between inventory stor</li> <li>C R - Receive completed assemblies for mfg and Back Flush consult</li> <li>C U - receive Unused returned parts from mfg (neg issue)</li> <li>C Y - receive parts from Receiving</li> </ul>	bdules, re unused the OK
	C A- Adjust inventory onhand qtys C I - reTurn all parts/assys issued to a sales/work order	pc/MRP Versions 8.53 and lower simply alter the qty issued and the qty required (if you do not wish to carry a shortage). pc/MRP Versions 8.54A and higher create adjusting transactions, leaving an audit trail for accounting.

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 number 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 Requirement and Issued Quantities** or simply **Reduce the Quantity Issued 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 overissued such as issuing a full reel.
- 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 presses **OK**, the user will be prompted to track serial numbers as needed.
- This type of transaction must be done before the final return of completed assemblies is transacted.

## 11.11 V - Receive Parts from Receiving

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.

Do not use this transaction if you are set to Inventory Adjustment method A, see Settings and Utilities, Option 4.

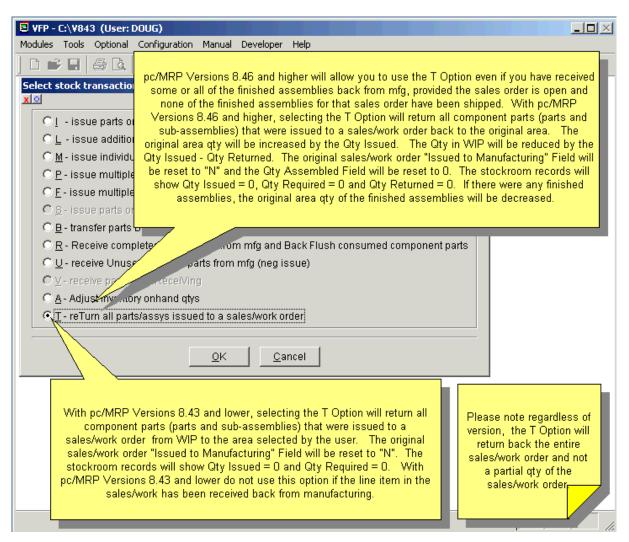
## 11.12 A - Adjust Onhand Quantities

pc/MRP for Windows - Version 8.20D	
Modules Tools Optional Configuration Manu	a
	2. Enter the adjustment gty. Increasing the onhand
1. Enter or scroll for the part	quantity in stores or in another area creates RECFA stock transaction record(s). Decreasing the onhand
number to be adjusted	quantity in stores or in another area creates ISSFA
	stock transaction record(s).
Part Number	
Quantity	3.000 3. Entering the Related Doc # is optional
Related Doc #	
Comments	Parts were contaminated
Reason	4. Entering the Comments is optional
	5. Auxilary is an optional user field
	<u>OK</u> <u>Cancel</u> 5. Select Reason. Reasons can be set with Settings and Utilities, Option 52.
	with occurings and same so, option sz.
	6. Press the OK button to continue. If you are
	utilizing the Serial Lot Number Module, this transaction will also automatically adjust
	quantities in the Serial Lot Number database.

This option allows the onhand quantity of parts to be adjusted (increased or decreased). It leaves a record of the adjustment; where as editing the part number, would not leave a record of the adjustment. 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 Auxilary field is a 20-character field for your use and can be reported on as "All for an AUX value".

## 11.13 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** are also set to 0. pc/MRP will prevent users from using this transaction if they have already performed a '**R**' type transaction (qty assembled > 0).

## 11.14 Edit/View (Delete/Undelete A Stock Transaction)

This option allows users to scroll, edit, delete, undelete, or run queries on Stockroom 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, Sales and Work order Number, Part Number, or Model 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 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 Stockroom table. For further details, 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 backflushed for this transaction.
- When the **REQUIRED QTY** does not equal the **ISSUED 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**.
- There is a key of **TRANSACTION TYPES** in the edit screen of each stockroom transaction.
- Use the delete and undelete buttons to mark and unmark records for deletion. Once the record has been
  marked for deletion, return to the menu and select **REMOVE ALL DELETED RECORDS FROM DISK AND REINDEX.** 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.

## 11.15 Scroll Inventory

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.

## 11.16 Reports (Printout/Display Stock Transaction Reports)

pc/MRP for Windo n 8.20D Tools Optional C Select All Stock Transactions, All for a Sale/Work Order, All fo a Part Number, All Sub-Totaled by Sales/Work Order, All for a Product Code, All for a Related Document Number, Shippable Sales Orders, A single Stock Transaction, All for a Debit Account Number, All for a Credit Account Number, All for an Aux Account Stock T • All Stock Transactions 4. Select Sort Sort by Transa • 2. Select Records to be included Send Report to. Include • Comments Display All Stock Transactions Serial/Lot Numbers C Issued to Manufacturing Only П O Issue to Shipping Only ort Type C Received from Manufacturing Onl Select All Sub-Totaled to enable Send Output to Standard C C Received from Receiving Only Display, Printer, PDF File, ASCII Text File, Excel File, DBF File, C Make-up Shortages issued to MFG only Г C All Transactions for a Stockroon Lot number C Adjusting Transactions Only HTML File. C Cycle Count O 3. Select Date Range Save Settings Date Range All Records <u>0</u>k <u>C</u>ancel C Entered in a Date range 6. Press OK

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

The above screen will allow you to display/print all manner of stockroom reports.

<u>M</u> odule	es <u>T</u> ool	ls <u>O</u> pti	onal <u>C</u> o	onfigur	ation M	Ma <u>n</u> ual I	<u>P</u> rinter					
🖱 Pri	nt Prev	riew - S	тоскі	OG.I	RX			Print Prev	view			× _ 8
		port Na	ame	ĺ				First Prev	₩ Next Las	4	₽ Print	þ 1
L/19/20	107	1	ANRACTION	15 50		OCK I	SSUE REE	ORT				
TRAN #		50 +	RECURN	ITEN	1011	TYPE	PARTNO	DESCRIP?	DATE	OLA BID	OFY ISS/REC	SHORTAGE
100001	000101	000101	NCRE	00 01		ISSIN	000000001	HERRING 3.DOOD	01/16/07	10.000	10.000	D.000
0000	000101	000101	NORE	00.01		ISSIM	000000002	EDOKE	01/16/07	400.000	400.000	0.000
00003	000101	000101	NORE	00 01	1235	ISSIM	000000001	BEARINE 3.000D	01/16/07	2.000	2.000	0.000
000004	000101	000101	NORE	00 01		ISSIM	000000002	EPOKE	01/16/07	80.000	80.000	D.000
00006	000101	000101	NORE	00 01	466	RECEN	00000010	WHELL ASSY	01/16/07	2.000	2.000	D.000
90 00 06	000101	000101	NORE	00 01		ISSIM	NURE	LABOR	01/16/07	0.000	0.000	D.000
									TOTAL	£94.000	494.000	0.00

Selecting Make-up Shortages issued to MFG and check the Show PO Info Checkbox, pc/MRP will provide shortage amounts along with related open PO Information.

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 an 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 its and 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.

## 11.17 Check Availability (of parts for a specified assembly)

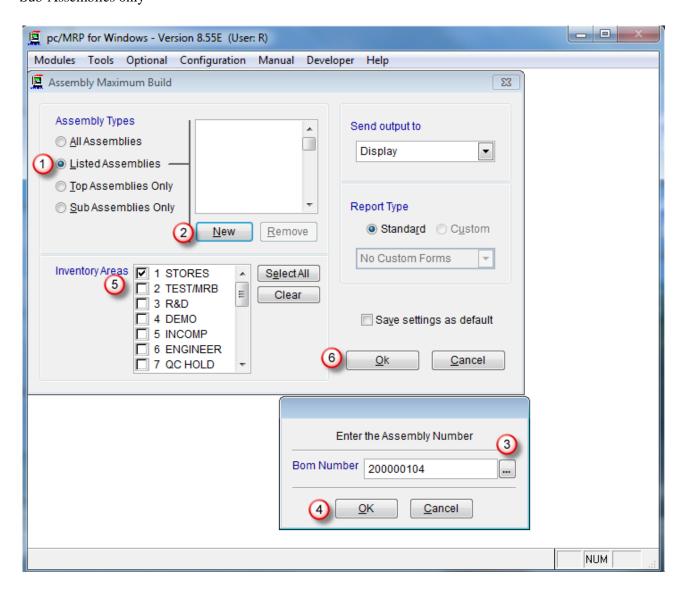
Will print out the status (quantity on hand, quantity on order, and quantity required) for each part number in a specified assembly. pc/MRP will ask for the BOM number and the quantity required. You also have a choice of a single stores area, All Areas, Qty Available, and Avail-OnOrder. Next, select '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 (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 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.

## 11.18 Maximum Potential Build

The Stockroom module allows one to see how many of a: All Assemblies Listed Assemblies Top Assemblies only Sub-Assemblies only



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/MRP for Windows - Ve	ersion 8.55E (User: R)				X
Modules Tools Optional	Configuration Manual Developer	Help Printer			
Print Preview - BOMBUI	LD.FRX				×
					^
Trexx Bicycles	5			PAGE NO:1	
DATE :03/10/2011				BOMBUILD. FRX	
Maximum j	potential number of Boms		for Listed Asse	emblies	
	Areas In	ncluded: Onhand			
BOM NUMBER	DESCRIPTION	DIVISION	QUANTITY IN INVENTORY	MAXIMUM BUILD OTY	
200000104	Brake Assembly Rear Kit		0.0000	0.0000	
•					
Bomlist	Record	: EOF/1 Exclusive		NUM	, at

## 11.19.1 Convert Parts To Assemblies

Provides a short cut method that automatically converts parts into assemblies. This routine bypasses putting parts into WIP and using a work order number to record the transactions. If you select the print out option, you will receive a printed record of the transaction that can double as a PICK list.

pc/MRP versions 7.92G and higher will disable this option if a file named '**NOCONVERTPARTSTOASSY.FLG**' exists in the pcmrpw directory.

pc/MRP versions 8.01 and higher 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.

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.

We recommend using the Stockroom's "Issue parts to manufacturing" and "Receive back completed assemblies from manufacturing" instead of "Converting parts to assemblies" because:

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 completed

## 11.19.2 Convert Parts To Assemblies with a Negative Quantity

Not recommended for the same reasons outlined in section 19.1 above. However, if you must, please see the slide below. (Remember, you **MUST** select '**Parts Only**'.)

E VFP - C:\V850 (User: DOUG)	
Modules Tools Optional Configuration Manual Developer Help	
Image: Second state of the second s	6. Send report to display, print, pdf, xls or dbf file.
4. Select the action Display	
When Issuing a Sub-Assembly, Issue:	
<ul> <li>Assembly (IF Available), then Component parts</li> <li>○ Parts Only</li> <li>○ Sub-Assemblies Only</li></ul>	
Issue Parts Automatically	You can enter a negative quantity to disassemble an assembly to COMPONENT
	PARTS ONLY under the following condition: You must select Parts Only in step 4. Note : BOM can be multi-level and component onhand gtys can be 0, positive or negative

## 11.20.1 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:

- Let pc/MRP issue the required amount but physically issue the reel. Consider the reel as part of the stock room 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.
- 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 stock room along with the reels. Enter the quantity remaining on the reels using the stockroom's "U" type transaction ("Returned unused parts from manufacturing to stock"). Select "Reduce Required and Issued Qtys". Once you have returned all the reel quantities with "U" type transactions, you can return the sales/work order as completed assemblies using the stockroom's "R" type transaction.
- 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. See section 10.10.1 "Receive Unused Parts from Manufacturing".

## 11.20.2 Special Cases - Handling Scrap Parts

You have used the Stockroom's 'I' Transaction Type to issue all the parts for 200 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 200 completed bicycles.

Please note that pc/MRP's Serial/Lot Number module will record the serial numbers for 'I', 'R', 'A', 'U', and 'L' the stockroom transactions

## 11.20.3 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 can also use the "U" transaction to return the scrapped parts to the Scrap stores area as in Option 1 above.

## 11.20.4 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 sale or work order.

Use the Stockroom's 'R' Transaction Type to receive back the 200 completed circuit boards into a stores area.

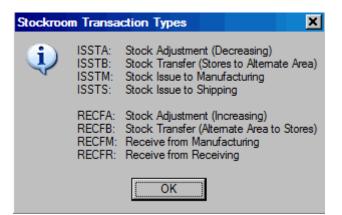
Inspection rejects five of the finished circuit boards 'A' (This must occur after the Stockroom's 'R' Transaction Type).

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. Zero out the scrap area using the command line: (use partmast; replace all area??qty with 0) **OR** 

Use the Stockroom' 'A' Transaction Type to decrement the quantity in the stores 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.



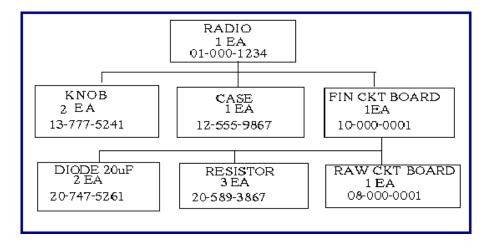
- 11.22 Queried Search Overview (see 15.14.1)
- 11.23 Indexed Searches (see 15.14.2)
- 11.24 Index (see 15.14.3)
- 11.25 Remove Marked Records (see 15.14.4)
- 11.26 Remove Over X Years (see 15.14.5)

# 12 Bill of Materials Module

#### 12.1.1 Bill Of Materials Overview

A Bill of Materials, 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:

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



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. You could then 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.

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

KINAMED					
BOM NUMBER	: 00000001	12	RE	v :	
BOM DESCRI	TION: REAR END	) ASSEMBLY	MO	DELNO:	
DATE	: 12/29/97	7			
oty	: 1.0000				
	SINGLE LEVEL		MANUFACTURER	MDDELND	QTY/ASS
	SINGLE LEVEL NUMBER DESCRIPTIO	IN	MANUF ACTURER GUN MANUF ACTURI		QTY/ASS
ITEM BOM/PART	SINGLE LEVEL NUMBER DESCRIPTIO 4 REAR TRANS	IN	GUN MANUFACTURE	IN ISSUE	
ITEM BOM/PART	SINGLE LEVEL NUMBER DESCRIPTIO 4 REAR TRANS	AXLE	GUN MANUFACTURE	IN ISSUE	1.000

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 print out is illustrated below:

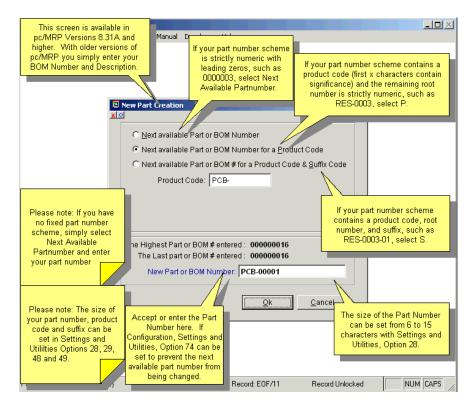
BOM NUMBER	: 000000012	REV	:
BOM DESCRIPTION	: REAR END ASSE	MBLY MODEL	NO:
DATE	: 12/29/97		
OTY	: 1.0000		
UNCOSTED EXPLO		1 REPORT Description	LOCATE
UNCOSTED EXPLO			LOCRTE TSTPP
UNCOSTED EXPLO		DESCRIPTION	TSTPP
UNCOSTED EXPLO	UMBER	DESCRIPTION REAR TRANSAXLE	TSTPP
UNCOSTED EXPLO <u>P/B ITEM BOM/PART N</u> PART 002 00000004 BOM 001 000000010	UMBER	DESCRIPTION REAR TRANSAXLE WHEEL ASSEMBLY12345678901234567890	TSTPP

## 12.1.2 Enter a New BOM

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).

S VFP	- C:\¥83	2 (User:	DOUG)							
Modules	Tools	Optional	Configuration	Manual	Developer	Help				
		Cre:	ating a new BO	м						
		xo	_				Enter the r	new BOM Des	cription	
		Br	BOM Number				2			
			OM Description	ГРСВ,		1				
					<u>0</u> K		<u>C</u> ancel			
		_				_۲	Press OK	_		
						4	T TESS OK			
			ould begin with							
as a	n asser	nbly and	o distinguish i not a part. Yo	ou 📄						
			wording of the	•						
logic	al desc	riptions o	can improve th	ie 🛛						
US		s of your rt list prir	alphanumeric							
	p.a.									
				-						

The description should begin with Assy, FG, or WIP to distinguish it as an assembly and not a part. 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 exits in the Inventory or BOM data base files, it will display an "Already Exists" error message

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

1.11.1	_		- Version 8.2 Configuration					_ 🗆 🗵
	_	Rennon2 er Add a new Part Descriptiv Manufactur Model Un Reference	CB IO MODU component to # 1 t # t # t #	BOM PCB-00002 BOM Qty 	 part number le part you withe BOM	r or	htty in the second seco	
Quantity per	As:	sembly of the c	omponent					CAPS //

Press the ellipse button to scroll and lookup the part or assembly number to be inserted into the BOM. You can look up part and assembly numbers by part number, description or model number. If you desired to enter an assembly that does not exist, you will have to exit this BOM, build the lower level assembly first, than add it to this BOM. BOMs must be built from their lowest level up.

pc/MRP for Windows - Version 8.208	
Modules Tools Optional Configuration Manual	
Add a new component to BOM PCB-00001	y 🔺
Alternate Par	t#s
1 BOM Qty 1.0000	
Part# Type	
Inventory Database	
Indexed Search (Fastest)	
Save Settings Save Settings	
Co Part Number V No Selections	▼
Go Top Begin Scrolling	cription
Go Bottom RES Search	
De Part Number Rev TypeDescription 3. Click on Search	Model Nur 🔺
Mar CAP-00001 P CAP, 50 uF, 5 VOLTS	
CON-00001 A P CON, PCB MOD JACKS	555052-1
FIN-00001 P FINISHED GOODS, IO CHASIS	M-00001
RES-00001 P RES, 1000HMS, 5 VOLTS	
	Cancel
4. Pr	ress OK
List of applicable records	CAPS

## 12.1.4 Enter Quantity, Reference Designators and Staging Bin Number

1.51115		Windows - Ver Optional Confid		u al				
Modules	10013		juration ma <u>r</u>	<u>1</u> 001				
		0001. DCD 10						
	PCB			BOM PCB-0001	Enter Qu	antity		y 🔺
		🌂 Item #	1	BOM Qty	5.000		Alternate Part #s	
		Part#	RES-0000		Type Part		.0-00100	
		Description		HMS, 5 VOLTS	· J'an	- 1 🗀	Ent	er Staging Bin if
		Manufacturer	Motorola				ne	cessary. Pick can be sorted by
		Model #	R100-5	Ave Cost				Stading Bin.
	Cor	Unit	JEA	Std Cost	0.5000	- Star	ging Bin	
				Last PO Cost		BIN	11 1/	Create New Part
		Reference D					Delete Z	on the fly.
	De:	R1, R4, 1	KIU-KI3				Create New Part	Sy
	Mani	Enter	Reference	Designators or			Settings	
				Il print out on osted BOMs).		7	Qk	
					Set part lookup M			
					ecify if Alternate are to be transfer	ed from the		Click OK
					part mast	er.		
Reference	Designa	ators						CAPS //

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. The BOM screens will accept but **not** record changes to the Part Data (Part Description, Manufacturer and Model Number).

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 12.1.11).

An infinite number of **Reference Designators** (refdesmemo) can be entered for every part within the BOM. Enter the Reference Designators. The first 160 bytes are broken into 4-40 character fields and **also** stored in the refdes and refdes2-3 fields.

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.

COMP. T			- Version 8.2							- <b>D</b> ×
<u>M</u> odules	<u>T</u> ools	<u>O</u> ptional	<u>C</u> onfiguration	Ma <u>n</u> ual						_
	DCD (	001 00		E (1111	1.5					
	PCB-0		Part Numbe		pde) Part Descriptio	n			Quantity 📥	
	iter	1 P	RES-00001		RES, 1000HMS		TS		5.0000	
				4		-				
			has now bee to the BOM	<mark>n</mark>						
		added	to the BOIN							
		nonont					New BOM item		Add Item	
	·	ponent .	Ref. Design	I	ellaneous				Edit Item	
		Item #	1	BOM Qt	V 5.	.0000	Press Add to	add anothe		
		Part#	RES-00001		Type Part		part or sub-as the B			
	Desc		RES, 1000H	MS, 5 VOLTS			the D		To Edit or the part nu	
	Manuf		Motorola						press E	dit.
	N	lodel #	R100-5						Changes:	
		Unit	EA	Ave Cos	st 0.	.5000			Save	
			· · · · ·	Standard Cos	st 0.	.5000	Staging Bin		Revert	
			<b>N</b>	Last PO Cos	st 0.	.4500	BIN 1		Finished	
Exit BOM d	lata scree	en with ch	anges							

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.

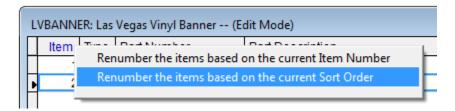
pc/MRP for Windows - Version 8.20B	
<u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u> Ma <u>n</u> ual	
PCB-0001: PCB,IO MODULE - (Edit Mode)	
Item Type Part Number Part Description	Quantity 🛆
1 P RES-00001 RES, 1000HMS, 5 VOLTS 2 P CAP-00001 CAP. 50 uF. 5 VOLTS	5.0000
2 P CAP-00001 CAP, 50 uF, 5 VOLTS 3 A 000000010 WHEELASSY	1.0000
3 A 00000010 WHEELASST	1.0000
Component Ref. Designators Miscellaneous	Add Item
Item # 1 BOM Qty 5 0000	Alternate Part #s
Item # 1 BOM Qty 5.0000	RES-00100
Part # RES-00001 Type Part Press	the Save Button to
Description RES 1000HMS 5 VOLTS Save yo	our changes and keep
Manufacturer Motorola	king on the BOM.
Brood the Depart	Button to restore
the BOM to its n	
Unit EA Ave Cost	
Standard Cost 0.5000	Staging Bin
	Einished
	d Button to save your
	o pc/MRP's Main Menu.
Add a new item to the 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):



Use Tols Qotional Configuration Magual         PCB-0001: PCB.IO MODULE - (Edit Mode)         Item Type Part Number         Part Description         Quantity         1       P         P       RES.10001MS, 5 VOLTS         2       P         CAP-00001       RES, 1000HMS, 5 VOLTS         1.0000       CAP.60.uc F.VolTS         1.0000       Reference Designators for the part number         selected. Press the Edit Button to edit       the Reference Designators         Vertice       Miscellaneous         Part #       RES.00001         Description       RES, 1000HMS, 5 VOLTS         Nove to:       Sub-Assy         Parent Assy       Changes:         Save       Revert	pc/MF	RP for	Windows	- Version 8.2	OB CONTRACTOR CONT	_ 🗆 ×
Item       Type       Part Number       Part Description       Quantity         1       P       RES-00001       RES, 1000HMS, 5 VOLTS       5.0000         2       P       CAP-00001       CAP_EQUE_EVOLTS       1.0000         2       P       CAP-00001       CAP_EOUE_EVOLTS       1.0000         3       P       CAP-00001       CAP_EOUE_EVOLTS       1.0000         4       Reference Designators for the part number selected. Press the Edit Button to edit the Reference Designators.       Image: Component Ref. Designators       Add Item         2       Part #       RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         2       Bub-Assey       RarentAssy       Changes:       Save       Save         2       Revert       Einished       Einished       Einished	dules	<u>T</u> ools	<u>O</u> ptional	<u>C</u> onfiguration	Ma <u>n</u> ual	
Item       Type       Part Number       Part Description       Quantity         1       P       RES-00001       RES, 1000HMS, 5 VOLTS       5.0000         2       P       CAP-00001       CAP_EQUE_EVOLTS       1.0000         2       P       CAP-00001       CAP_EOUE_EVOLTS       1.0000         3       P       CAP-00001       CAP_EOUE_EVOLTS       1.0000         4       Reference Designators for the part number selected. Press the Edit Button to edit the Reference Designators.       Image: Component Ref. Designators       Add Item         2       Part #       RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         2       Bub-Assey       RarentAssy       Changes:       Save       Save         2       Revert       Einished       Einished       Einished						
1       P       RES.00001       RES.1000HMS, 5 VOLTS       5.0000         2       P       CAP-00001       CAP.ED.UE E.VOLTS       1.0000         The Ref Designators Tab will display the Reference Designators for the part number selected. Press the Edit Button to edit the Reference Designators.       1.0000         Component       Ref. Designators       Miscellaneous       Add Item         Edit Item       Edit Item       Edit Item         Part #       RES-00001       Description       RES, 1000HMS, 5 VOLTS         Reference Designators       Miscellaneous       Add Item         Edit Item       Move to:       Sub-Absy         Part #       RES.00001       Description       RES, 1000HMS, 5 VOLTS         Reference Designators       Sub-Absy       Parent Absy         R1, R4, R10-R13       Saye       Revert         Einished       Einished       Einished		PCB-	0001: PC	CB,IO MODUL	E - (Edit Mode)	
1       P       RES.00001       RES.1000HMS, 5 VOLTS       5.0000         2       P       CAP-00001       CAP.ED.UE E.VOLTS       1.0000         The Ref Designators Tab will display the Reference Designators for the part number selected. Press the Edit Button to edit the Reference Designators.       1.0000         Component       Ref. Designators       Miscellaneous       Add Item         Edit Item       Edit Item       Edit Item         Part #       RES-00001       Description       RES, 1000HMS, 5 VOLTS         Reference Designators       Miscellaneous       Add Item         Edit Item       Move to:       Sub-Absy         Part #       RES.00001       Description       RES, 1000HMS, 5 VOLTS         Reference Designators       Sub-Absy       Parent Absy         R1, R4, R10-R13       Saye       Revert         Einished       Einished       Einished		Ite	m Type	Part Numbe	r Part Description Quantity 🔺	
L       L						
Reference Designators for the part number selected. Press the Edit Button to edit the Reference Designators.         Component       Ref. Designators         Miscellaneous       Add Item         Edit Item       Edit Item         Part #       RES-00001       Description         Reference Designators       Move to:         Sub-Assy       Part Assy         Changes:       Saye         Revert       Einished			2 P	CAP-00001	CAR 50 UE 5 VOLTS 1.0000	
selected. Press the Edit Button to edit the Reference Designators.         Component       Ref. Designators         Miscellaneous       Add Item         Edit Item       Edit Item         Bart #       RES-00001       Description         RES       1000HMS, 5 VOLTS       Move to:         Sub-Assy       Parent Assy         Changes:       Save         Revert       Finished					The Ref Designators Tab will display the	
the Reference Designators.     Component   Ref. Designators   Miscellaneous     Add Item   Edit Item   Edit Item   Move to:   Sub-Assy   Part #, R4, R10-R13     Changes:   Save   Revert   Einished						
Component       Ref. Designators       Miscellaneous       Add Item         Part #       RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         Reference Designators       Sub-Assy       Parent Assy         R1, R4, R10-R13       Changes:       Save         Event       Einished		<u> </u>				
Part # RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         Sub-Assy       Parent Assy         R1, R4, R10-R13       Parent Assy         Changes:       Save         Revert       Finished		<u> </u>			the Relefence Designators.	
Part # RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         Sub-Assy       Parent Assy         R1, R4, R10-R13       Parent Assy         Changes:       Save         Revert       Finished		H-				
Part # RES-00001       Description       RES, 1000HMS, 5 VOLTS       Move to:         Sub-Assy       Parent Assy         R1, R4, R10-R13       Parent Assy         Changes:       Save         Revert       Finished		ш.,				
Part # RES-00001 Description RES, 1000HMS, 5 VOLTS Move to: Reference Designators R1, R4, R10-R13 Parent Assy Changes: Save Revert Einished		Com	ponent	Ref. Designation	ators Miscellaneous <u>A</u> dd Item	
Reference Designators       Sub-Assy         R1, R4, R10-R13       Parent Assy         Changes:       Save         Revert       Einished						
Reference Designators          R1, R4, R10-R13         Changes:         Save         Revert		Pa	rt# RES	5-00001	Description RES, 1000HMS, 5 VOLTS	
R1, R4, R10-R13			Refe	rence Design		
Parent Assy Changes: Save Revert Einished					Sub-Assy	
Save Revert <u>F</u> inished			RI	, R4, RIU	Parent Assy	
Save Revert <u>F</u> inished						
Einished					Changes:	
					Save	
<u>Finished</u>					Revert	
<u>Finished</u>						
					Finished	
of the BOM components CAPS	1.11	DOM				CAPS

Clicking on the Reference Designator Tab will display the reference designator page shown above

The Reference Designator field 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 is C1, C2, C3, etc. It can be used by regular manufacturers to list special instructions for assembly, such as, cut 13" long.

#### 12.1.8 Miscellaneous Tab

pc/MRP for Window			
<u>M</u> odules <u>T</u> ools <u>O</u> ptional	I <u>C</u> onfiguration Ma <u>n</u> ual		
PCB-0001: F	PCB, IO MODULE – (Edit Mod	le)	The BOM Status can be set to
		nt Description	<blank>, Preliminary or Released.</blank>
1 P		Press the Miscellaneous	The Password Module can be set to allow only user's with BOM Delete
2 F		Tab to view writere Osed	Rights to edit a Released BOM. The
		Comments and set the	Partmaster contains the BomStatus
		BOM Status.	Field. P = Prelimary, R or Blank = Released
Press the Where			included.
used Buttons to set where the part or	e		
assembly is used.		New BOM i	Add Item
	f. Designators Miscell	aneous	
Where Us	ed.	BOM Status Released	Edit Item
	BOM Used	Dom otatus Incicased	Move to:
	BOW Used	Assembly Costs Re	ecalculate <u>S</u> ub-Assy
Press the Image	Part Used	Ave Cost	3.2500 Parent Assy
Buttons to view an image of the part	Image for Part: 0	00000010 🗵 post	3.000 Pressing the Recalculate
or assy.		· · · · ·	3.000 Pressing the Recalculate Button will calculate and
		Cost	2.250 display the entire average,
	_ 🛀		standard and last PO cost of the BOM
		BOM comments.	
			Emisned
	External View	Cancel	ress the Comments Button to
			enter up to 20 lines of BOM uting or assembly instructions.
Closes the window			uning of assembly instructions.

Clicking on the Miscellaneous Tab will display the miscellaneous 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.

pc/MRP version 8.11B and higher allows you to set the **BOM Status** (partmast.bomstatus) to **Blank**, **Preliminary, or Released**. If you have the Password Module, checking the 'Editing released BOMs' requires <u>D</u>elete rights in the BOM module' and only users with delete rights can edit the released BOMs.

The Assembly Costs **Recalculate** button recalculates and displays the costs.

Pressing 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.

#### 12.1.9 Move to Sub-Assembly Button

pc/MRP for Windows		
<u>M</u> odules <u>T</u> ools <u>O</u> ptional	Configuration Manual	
PCB-0001: P	CB, IO MODULE – (Edit Mode)	
Item Type		Quantity 🔺
1 P	RES-00001 RES, 1000HMS, 5 VOLTS	5.0000
2 P	CAP-00001 CAP, 50 uF, 5 VOLTS 000000010 WHEEL ASSY	1.0000
	00000010 WHEELASSI	1.0000
		<u> </u>
Component	Ref. Designators Miscellaneous New BOM item	Add Item
ltem #	BOM Qty 10000 Alternate Part #s	Edit Item
iterr #	3 BOM Qty 1.0000 Atternate Part #S	Move to:
Part#	000000010 Type Assembly	-
Description	WHEEL ASSY	Sub-Assy
Manufacturer		Parent Assy
Model #		Changes:
	To edit/view a sub-assembly of the displayed BOM, press the Move to	
Unit	EA Ave Cost Gisplayed BOM, press the Move to Sub-Assy button. Notice that the P	
	Standard Cost Type of the part selected is an A type	
	Last PO Cost part (Assembly).	Finished
		<u>r</u> inished
a List of the BOM component	\$	

To drop down into a sub-assembly, select the sub-assembly in the grid and then click on the Sub-Assy Button as shown above.

## 12.1.10 Move to Parent Assembly Button

00000010			
	WHEEL ASSY - (Edit M		Ourantity (
Item Type	Part Number 000000001	Part Description BEARING 3.000D x 1.00ID 1.00WIDE SS	Quantity <u> </u> 1.0000
2 P	000000002	SPOKE	40.0000
3 L	000000013	LABOR INSIDE	10.0000
4 L	00000014	LABOR OUTSIDE	1.0000
Component Item #	Ref. Designators Mit	Cty 1.0000 Alternate Part #s	<u>A</u> dd Item <u>E</u> dit Item Move to:
Part#	00000001	Type Part	Sub-Assy
Description	BEARING 3.000D x 1.0	0ID 1.00WIDE SS	Parent Assy
Manufacturer	FourPriceQtyBreaks		
Model #	555003-1	To Move back up the parent assemb	y, Changes:
Unit	EACH Ave C	Cost press the Parent Assy Button	Sa <u>v</u> e
	Standard C	Staging Bin	<u>R</u> evert
	Last PO C	Cost 0.0000	

To move back up to the parent assembly, click on the **Parent Assy** Button as shown above.

#### 12.1.11 BOM Settings Button

pc/MRP for Windows - Version 8.20B	
<u>M</u> odules <u>T</u> ools <u>O</u> ptional <u>C</u> onfiguration Ma <u>n</u> ual	
PCR-0001- PCR IO MODULE - (Edit Mada)	
BOM Component Item Edit screen	ntity 🖻
▶	Alternate Part #s 000
Item # 1 BOM Qty 5.0000	RES-00100 000
Part# RES-00001 Type Part	
Description RES, 1000HMS, 5 VOLTS	
Manufacturer Motorola	
Model # R100-5	
C Unit EA Ave Cost 0.5000	
Std Cost 0.5000	Staging Bin         Click on the Settings           BIN 1         Button to set the Lookup
Select Lookup Method (Whole Last PO Cost 0.4500	Method and Alternate
Database, Starts with entered characters, Contains entered 4 Editor settings	Part Number Source.
Characters)	Create Ney 1 Assy
Component Lookup method	
The whole database	Settingś
✓ Transfer alternate part numbers	<u>O</u> k
<u>Transier alternate part numbers</u>	Cancel
If checked, pc/MRP will automatically	led
insert the Alternate Part Numbers from Ok Cancel	
the Inventory Record.	

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 every 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.

## 12.2 Edit/Delete a BOM Component (View)

This option allows users to scroll, edit, delete, undelete, or run queries against BOM 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**, BOM Number, Part Number, BOM Description Enter the applicable data in the **Begin Scrolling At:** field Select the desired **Action**, **View** or **Edit** Press **Search** 

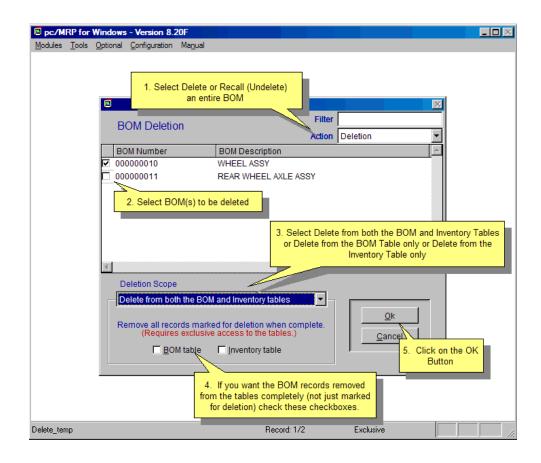
pc/MRP will automatically scroll to the desired record or the nearest match. Select the correct record by scrolling and press **Ok** to proceed to the edit screen for that record.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the BOM table. For further details, see chapter 15.14.

Please review the Enter New BOM section of this chapter as the view and edit BOM screens function the same as the Enter New BOM screens.

## 12.3 Delete an Entire BOM

Allows you to mark an entire BOM for deletion or un-deletion as shown on the screen below:



## 12.4 Duplicate A BOM

Allows you to duplicate a BOM.

#### 12.5 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 number in inventory.

#### 12.6 Change A BOM Description

Allows you to change a bill of materials description without having to edit every record that contains that bill of material description. pc/MRP also changes the description in inventory.

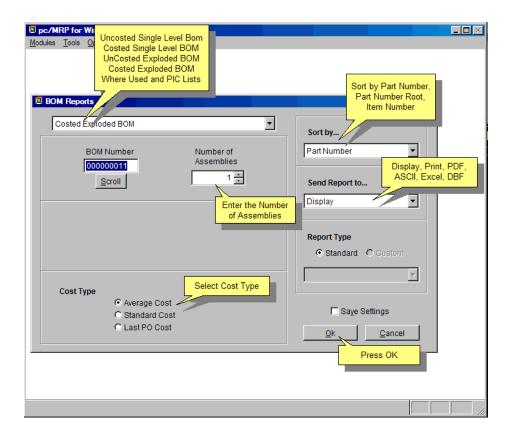
#### 12.7 Part Number Replacement

Allows you to replace one part number with another part number in any BOM containing the original part number. You select the BOMs that you want the part number replaced in.

#### 12.8 Reports/Lists

Allows you to print or display BOMs, PICK Lists, and Where Used Reports.

See section 15.4.1 to create custom reports.



A Costed Exploded BOM would print/display as shown on the screen below:

pc/MRP for Windows -						<u> </u>
Modules Tools Optional (	<u>C</u> onfiguration Ma <u>n</u> ual <u>P</u> rint	er ,				
Print Print Preview		×				- 🗆 🗵
	▶ ▶↓ 100% ▼ ₽*	8				•
Software Arts						
BOM NUMBER	:000000011	REV:				
	:REAR WHEEL AXLE	ASSY	MODEL NO:			
DATE	:12/29/2006					
QTY	:1.0000					
COSTED EXPLODED	LEVEL BOM REPORT	т				
P/B ITEM BOM/PART NUM	BER	DESCRIPTION	1	LOCATE	AVECOST	
PART 0002 000000003		REAR AXLE			1000.0000	
BOM 0001 000000010	N	WHEEL ASSY				
.PART 0001 000000001		BEARING 3.000D x 1.001	D 1.00WIDE SS		9.7500	
.PART 0002 000000002	BOMs and Parts	SPOKE			1.0000	
.LABR 0003 00000013	are indented on	LABOR INSIDE			22.0000	
.LABR 0004 00000014	exploded reports.	LABOR OUTSIDE			20.0000	
Updating assy cos	t in partmaster	BOM COMMENTS:				
Prev Ave Cost:	1579.50					
New Ave Cost:	1579.50					
	quantit BOMs to	a print out a Costed Explo ty of 1 and Option 61 is se o update costs, pc/MRP v that assembly in the inver	et to allow costed vill update the cost	t		• •
D (c:\docume~1\doug\locals~	1\temp\34645207.dbf)	Record: EOF/6	Exclusive			

NOTE: To ensure that all BOM and sub-BOM costs are correct, perform cost roll-ups for All 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 stock room personnel to print out the parts required for an assembly or sub-assembly.

An exploded PICK list includes all of parts including parts from sub-assemblies in one consolidated list.

The Reference Designator Fields print out on the wide carriage PICK List, wide carriage Uncosted BOM, and narrow carriage uncosted single level BOM reports.

## 12.9 Audit The BOM File

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 option. 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 in the bom.dbf that does not exist in the partmast.dbf

A part number in the bom.dbf that does not exist in the partmast.dbf

A BOM number in the bom.dbf that contains a part number that is the same as the BOM number

A 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

It automatically replaces the BOM part/assy/labor field with the contents of the partmast.dbf part\_assy field.

A subassembly number found in a BOM that does not exist as a BOM in the bom.dbf file.

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 them selves on levels more than one level deep.

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.

If any recursive errors were found you must delete the BOM record calling the parent BOM. (See 17.3.17)

## 12.11 Phantom Bills of Materials

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/LABR** field from **A** to a **P**. The MRP module would then create action items to buy the sub-assembly from a vendor rather than buying the components and issuing 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.

## 12.12 Blow Through Bill of Materials

If an assembly reports to a parent assembly and it is checked as a **Blow Through Assembly** in 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.

## 12.13 Index (see 15.14.3)

## 12.14 Remove Marked Records (see 15.14.4)

# **13 Work Order Module**

📮 pc/MRP for Wi	indows	S				
<u>Modules T</u> ools <u>O</u>	ptional	Configuration Manual				
<u>I</u> nventory <u>B</u> OMs Stoc <u>k</u> room	* * *					
<u>P</u> urchase <u>R</u> eceive	+ +					
<u>Work Order</u> Sales Order Invoice Address Book		New Edit / View Print Reports				
Accounting	•					
E <u>x</u> it		Remove <u>M</u> arked Records Remove over <u>X</u> Years				
Work Order Module	Work Order Module					

## 13.1.1 Overview

pc/MRP's Work Order Module allows manufacturing to enter, edit, and print in house work orders to build to stock. The work order contains valuable information such as has it been issued to manufacturing and how many assemblies have been completed and returned to the stock room. It is important to note that order entry sales orders automatically become work orders and share the same database file. The Sale Order Form and the Work Order Form are same form except that Work Order will take only one line item, 00WO and is labeled Work Order instead of Sales Order. 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 issuing invoices.

## 13.1.2 New (Enter A New Work Order)

- From the Main Menu, select "Work Orders".
- From The Work Order Menu, select "Add A New Work Order"

The Work Order Data Entry Screen will appear.

📮 Work Order (Add Mode - Single Item)	X
SOMVO # 000003 Change # 0 Order Date 06/16/2003	<u>B</u> ack <u>N</u> ext
Customer Billing / Shipping Addresses Delivery Item Info	Jump to Item
Customer Terms   Address Customer PO#   Address Customer PO#   Street Related Doc #   Ctty/State/Zip Territory   Country Region   Account # Address Type   Phone # Contact	Add Item Clone Breakdown Delete Options
Item       Part Number       Description       Image: Part Lookup       Model Number         00W0	Logbook Create Part Create Address Finished
Consu <u>m</u> able	<u>C</u> ancel

Note: The **Root Address** and **Part number** check boxes are activated (with check marks). This indicates that the screen is set to look up address and part information from the database.

The "Account #" and "Part #" fields are always linked to the Customer Address Book and Part Master. *This implies that the entries to these two data fields must be valid numbers contained in the Address Book or the Part Master*.

## **Step 1: Select Customer:**

• Enter your company's name in the Customer Field or your company's ID in the Account # Field.

## Step 2: Select Part

- Place the cursor in the Part # Field, Description Field or Model Number field.
- Type in the first few characters of the part #, part description, or model number.
- A list of parts matching the characters (that you have entered) will appear.
- Scroll to the desired part and hit [Rtn] or double click. All the necessary data will be entered automatically. Note: *The part number must be a valid assembly number in inventory. It should not be a component part or "NA"*.

#### **Step 3: Enter Quantity**

• Type in the quantity. Unit and pricing data will be entered automatically. If there is a price/quantity break, the price data will be different for different quantity levels.

#### **Step 4: Enter Date Required**

• Type in the date when the parts are required. This data allows pc/MRP to track and print Overdue Work Order Reports.

## **Step 5: Enter the rest of the fields**

- Since a Work Order is an in-house build to stock, the Customer PO Number, Customer Contact, and Freight fields can be left blank.
- Each item can have as many comments as necessary.
- Work Orders are one line item only.
- 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.

#### Step 6: Save the Work Order when finished

• When you are satisfied with the all the entries, click "Finished" to save.

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 Part Master), the user will be prompted to take corrective actions.

Options      Auto Look-up     The Whole Database     Original Date Required     / /     Credit Account     Serial Number	Update All Header Information Sync with the First line item Sync with the Current line item Sync with This line item Resort the Order Items Always Look-up pricing information
<u>M</u> ailing Labels	<u>O</u> k <u>C</u> ancel

## **Option Buttons**

## • Auto Look-Up Return

The selections of the "Auto Look-Up Returns will determine what appear in the customer list and the part number list during the selecting customer and selecting parts operations.

- **The Whole Database** (default setting) -- The window (e.g. Address Book) 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 large database.
- **Resort the Order Items** This is deactivated.
- **Update all Header Information** This is deactivated.

Notes: 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 w/o waiting for an explosion
- You can build to stock, stocking finished-assemblies and sub-assemblies

## 13.1.3 Edit/View (Scroll/Delete/Undelete Work Order)

This option allows users to scroll, edit, delete, undelete or run queries against work order 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
- 3. Desired **Include** information
- 4. Enter the applicable data in the Begin Scrolling At: field
- 5. Select the desired Action, View, or Edit
- 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 screen for that record.

Selecting to run a **Queried Search** allows users to build, run, save, and load queries for the work order table. For further details, see chapter 15.14.

All of the fields in a work order are editable. Users however must understand several key concepts before editing work orders.

- 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 / QTY ASSMD** appears on the edit screen for work orders. pc/MRP will automatically enter a "Y" when the assemblies are issued from stock to manufacturing. The **QTY ASSMD** field is automatically updated when the assemblies are received by the stock room from manufacturing for that sales order number.
- The **COMPLETE** field is displayed only in the edit mode and is filled in automatically when 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 CO# stands for Change Order Number, and is used to note any changes in the order.
- Use the delete button to mark a record for deletion Once the record has been marked for deletion you must return to the menu and select **REMOVE MARKED RECORDS**.

## 13.1.4 Print (Display A Work Order)

Allows you to print out or display a work order.

Work Order Reports		×
All Records		Sort by Work/Sales Order Number
Range		Send Report to Display
<ul> <li>All Records</li> <li>Entered in a Date ran</li> <li>Due in a Date range</li> <li>Exactly 30, 60, and 90</li> </ul>	01/01/1975 03/19/2009	Report Type © Standard © Custom
Include © Open & Closed	Include Sales Orders	CUSWO.FRX
C Open Only C Closed Only C Over Due Only	<ul> <li>All: Issued &amp; NOT Issued to MFG</li> <li>Orders Issued to MFG only</li> <li>Orders NOT Issued to MFG only</li> </ul>	Save Settings as Default <u>O</u> k <u>C</u> ancel

Allows you to print out or display various Work Order Reports. See section 15.4.1 to create custom reports. Your standard report options are as follows:

ALL RECORDS (OPENED AND CLOSED) ALL RECORDS FOR A SPECIFIED PRODUCT CODE ALL RECORDS FOR A SPECIFIED PART NUMBER ALL RECORDS FOR A SPECIFIED ACCOUNT ALL RECORDS FOR A SPECIFIED ACCOUNT AND TIME PERIOD ALL RECORDS FOR A DIVISION FOR A SPECIFIED TIME PERIOD ALL RECORDS DUE ON A SPECIFIED TIME PERIOD ALL CASH RECORDS FOR A SPECIFIED DAY ALL OPEN RECORDS (Backlog and Mfg Schedule) ALL OPEN RECORDS FOR A VEND/CUST ACCOUNT # ALL OVERDUE RECORDS

Any of the above may include the following:

**Matching Exact:** This selection allows you to find a work order report by using the exact work order report record, specified day, specified period of time, specified product type, specified part number, specified account, specified account and time period, division for a specified time period, due date on a specified time period, specified day, open records, open records for a vend/cust account #, or all overdue records. It will display, print, or send only that record.

**Matching Partial:** This selection allows you to find a work order report by using a partial description of the exact work order report record, specified day, specified period of time, specified product type, specified part number, specified account, specified account and time period, division for a specified time period, due date on a specified time period, specified day, open records, open records for a vend/cust account #, or all overdue records. It will display/print/send all work order reports matching the partial description.

Any of the above may be sorted by:

Work/Sales Order Number Part Number Account Number Part Number Root Date Entered Document/Contract # Due Date Model Number Product Code PO Number Territory Salesman Date Required (Manufacturing Schedule)

# 13.1.7 Summary of Flag Files

If the flag file **SHORTRTN.FLG** exists work orders returned from manufacturing short will prompt users to decide if the order should be closed automatically or remain open.

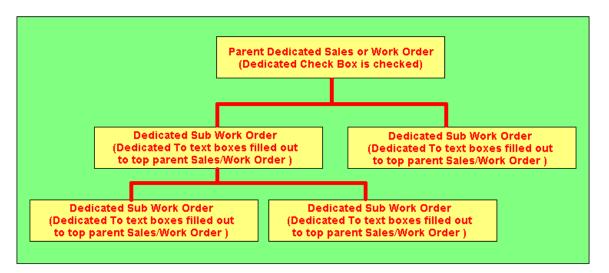
# 13.1.8 Dedicated Work Orders (pc/MRP Versions 7.83 and higher)

To create a parent sales or work order, you must check its Requires Dedicated Work Orders check box, as shown below:

🖳 Sales Order (Edit Mode - Multiple Item)	×
XI     Occurrency       SOMVO # 000101     Change #       Order Date     07/13/2003       Sales Type     Order Entry	<u>B</u> ack <u>N</u> ext
Customer Billing / Shipping Addresses Delivery Item Info	Jump to Item
Require Dedicated Work Orders     Issued to MFG     N     Qty Assembled     0.000	Add Item
Quantity Shipped 0.0000	Clone
S parent for dedicated work orders, check the equired 77	Brea <u>k</u> down
Sale Commi Required Dedicated Work Orders check ccount	<u>D</u> elete
has been issued to manufacturing, you will     be Cost     0.0000       Rove     not be allowed to change this check box.     al Cost     0.000	Options
tem Part Number Description EPart Lookup Model Number	Logbook
0001         000000011         REAR WHEEL ASSY           Quantity         Unit         Sale Price         Tax %         Freight         Disc %         Date Require         Division         Complete	Create Par <u>t</u>
10.000 0.000 0.000 0.00 0.00 09/11/2003 N	Create Add <u>r</u> ess
Comments Displayed BASE CURRENCY Serial Number	
Location	<u>F</u> inished
Tax Type Resale	<u>C</u> ancel

To create dedicated work orders, you must enter the sales/work order number it is dedicated to, as shown below:

📕 Work Order (Edit	Mode - Single Item)			×
SOMVO # 000103 Order Date 07/03/2003	Change #		Document Currency BASE CURRENCY	<u>B</u> ack <u>N</u> ext
Customer	Billing / Shipping Addresses	Delivery	Item Info	Jump to Item
🗖 Require D	Dedicated Work Orders			
Dedicated to SOWVO #	000101			Add Item
Dedicated to Item #	0001			Clone
Tax Code		Date Shipped		Cione
Salesman		Date Required 🦷 / /		Brea <u>k</u> down
Sale Commission %	0.00 To dedicate a work of	order to a specific de	diasted colos or	<u>D</u> elete
Licensor		ne the sales order nu		
Royalty Rate	0.00 item number this wo		cated to. In this	<u>O</u> ptions
Item Part Number	Des	3 Line Item 0001. O		<u>L</u> ogbook
00000 00000010	to change the c	anufacturing, you wil ontents of the dedica		Create Part
Quantity Unit	Sale Price 0.000 0.000 0.000			
Dis	splayed BASE CURRENCY -			Create Address
Comments	BASE CORRENCT	Serial Numbe	r	
		Location	י 📃 י	<u>F</u> inished
		-	Consu <u>m</u> able	<u>C</u> ancel



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 must 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 fields.

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(s).

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.

# 13.1.10 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 insert an error message into 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 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.

# 13.1.11 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.

# 13.1.12 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.

# 13.2 Queried Search Overview (see 15.14.1)

# 13.3 Indexed Searches (see 15.14.2)

13.4 Index (see 15.14.3)

# 13.5 Remove Marked Records (see 15.14.4)

# 13.6 Remove Over X Years (see 15.14.5)

# 14.1 Accounting Overview

Pc/MRP for Windows Modules Tools Optional	Accounting Overview nc/MPP Versions 8 20H
Inventory	CloseInProgress.Flg when a close is started. It will
Stockroom	Additional Menu Items not shown on this screen shot, IRS Tax Forms and 1099, 1096 Forms for vendors, Wells Fargo Reconcilement (Well Fargo will only cash checks on this list) Close can go back in immediately and reclosed
In⊻oice ► Shipment ►	Enter/Edit GL Transactions
Address Book	Enter/Edit AP Vouchers
Accounting	GL Transactions Select Receivers and Print Checks
E <u>x</u> it	Pay Bills / Print / Clear checks - Enter AR Vouchers
	Accounts Receivable Batch Post Invoces (Version 8.41 and higher) Batch Post Invoices Record Customer Deposits (Version 8.23 and higher) Receive Customer Payment Transaction, AP, AR, Cost of Sales, PPV, Reports.
	Reports         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
	Credit Memos     Enter/Edit Debit Memo for a vendor       Debit Memos     Enter/Edit Chart of Accounts
	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.
Accounting Module	Audit Iransactions     Updates Customer Balances in Address Book.       Audit & Update Address Balances     Image: Customer Balances in Address Book.

# 14.1.1 Accounting Overview

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 Chart of Accts 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 credit 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 version 8.20H and higher 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. In pc/MRP versions 8.23A and higher, the person who initiated the close can log back in immediately and not wait the hour.

# 14.1.2 General Ledger Transaction Module

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.

	Select the GL transaction type
• <u>s</u>	Cash and carry sale
<u>o</u> <u>o</u>	Register accounts receivable invoice
0 <u>R</u>	Accounts receivable payment
ΟE	Cash purchase or debit memo
01	Register accounts payable invoice or debit memo
ΟE	Accounts payable or debit memo payment
$\odot \underline{W}$	Register a payroll Check
ΟA	All other transactions - rent, taxes, etc

# 14.1.3 Accounts Payable Module

The Accounts Payable Module allows you to enter, edit and printout 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, make separate), the accountant would not enter the accounts payable module but would enter a general ledger transaction into the general ledger (option 1 on the accounting menu). 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 Module

The Accounts Receivable Module allows you to enter, edit and printout 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 (in the configuration menu), 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 (make separate), the accountant would not enter the accounts receivable module but would enter a general ledger transaction into the general ledger (option 1 on the accounting menu). 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 "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 (Accounting Report Module)

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.

GENERA	L LEDGER TRANSACTIONS
A BALANCE	E FOR A DATE OR TIME PERIOD
CURREN	IT BALANCE OF A SPECIFIED GL ACCOUNT (T ACCT)
P ACCOUN	ITS PAYABLE REPORTS
R ACCOUN	ITS RECEIVABLE REPORTS
E FIFO INVI	ENTORY VALUE REPORT
I SALES TA	AX REPORT
M SALES C	OMMISSION REPORT
S COST OF	SALES REPORT
V PURCHA	SING PRICE VARIATION REPORT (PPV)
H CASH OU	JT PROJECTION REPORT (PO's)
	RECONCILIATION REPORT
DEBIT ME	MOREPORTS
L LICENSO	R ROYALTY REPORTS
<u>B</u> CANCEL	

# 14.1.6 Drill-Down Reporting

(As of pc/MRP Version 7.90)This module will allow you to select a chart of accounts number as shown below.

Chart of Acc	counts		×
Account#	Description	Account Type	Credit/Debit
10100000	CASH ON HAND	Ν	AC
10200000	BANK CHECKING ACCOUNT	N	AC
10300000	BANK SAVINGS ACCOUNT	N	AC
11100000	ACA VRECUB CUSTOMERS	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	Ν	AC
13100000	number sorted by date.entered.	N	AF
13200000	FURINITORE & FIATORES.	N	AF
13300000	TRANSPORTATION EQUIP.	N	AF
13400000	LEASHOLD EQUIPMENT	Ν	AF
13500000	LAND	N	AF
12600000		N1	×
		<u>O</u> k	<u>C</u> ancel

Double 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.

D 🖻	;	6 B.	🔏 🗈 🖻	n ca 🕴				r 🖻	* 🛐		
	K CHE	CKING /	ACCOUNT (102	00000) Debit	Accou	unt					Þ
o Da	ite	Trans#	Compa	iny Name		Desc	iption	Invoice#	Receive#	Balance	ŀ
04/23/	2003	000169	ABC MANUFAC	CTURING CO	BE	ARING		NONE	000005	-48281.9	5
04/23/	2003	000170	ABC MANUFAC	CTURING CO	BE	ARING		NONE	000001	-48365.2	J
04/23/	2003	000172	ABC MANUFAC	CTURING CO	PA	RT 1		NONE	000009	-48370.7	5
04/23/	2003	000174	ABC MANUFAC	CTURING CO	BE	ARING 3.00	OD x 1.00ID 1	NONE	000020	-48381.8	5
06/05/	2003	000179	HEWLET PACH	KARD	W	HEEL ASSEM	IBLY123456789	000163	NONE	-47507.3	1
06/24/	2003	000180	ABC MANUFAC	CTURING CO	BE	ARING		NONE	000003	-47557.3	9
06/24/	2003	000181	ABC MANUFAC	CTURING CO	BE	ARING		NONE	000006	-47607.4	7
06/24/	2003	000182	ABC MANUFAC	CTURING CO	BE	ARING		NONE	000007	-47657.5	5
06/24/	2003	000183	ABC MANUFAC	TURING CO	TE	ST BOM YAE	A	NONE	800000	-50065.3	5
06/24/	2003	000184	ABC MANUFAC	CTURING CO	IN	SIDE LABOR	TEST	NONE	000010	-50065.3	ว
06/24/	2003	000185	ABC MANUFAC	TURING CO	PA	PER OFFICE	SUPPLY(Nonl	NONE	000012	-49965.3	J
06/24/	2003	000185	ABC MANUFAC	CTURING CO	PA	PER OFFICE	SUPPLY(Nonl	NONE	000012	-51630.3	5
06/27/	2003	000186	ABC MANUFAC	CTURING CO	R	EAR WHEEL	AXLE	NONE	000013	-52740.3	5
08/01/	2003	000188	ABC MANUFAC	CTURING CO	N	JT		NONE	000023	-52758.0	5
09/09/	2003	000190	CUSTOMER F	OR TESTING	W	HEEL ASSY		000404	NONE	-50538.0	3
10/07/	2003	000193	CUSTOMER F	OR TESTING	W	HEEL ASSY		000405	NONE	-39438.0	3
11/12/	2003	000195			TE	ST		NONE	NONE	-39438.0	5
•			Transaction v	cking on the vill display th action	ne -				Invoice or display tl	icking on the Receiver will he Invoice or ceiver.	
Sort <u>S</u> ho	-7 1	Date nsaction	Show <u>I</u> r	▼		Enc	ling balance -39438.06		<u>C</u>	ancel	-

Double clicking on a transaction number will display the complete transaction. Double 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:

		Inco	ome and Ex	pense			
140000							
120000							
80000							Income
60000							Expense
20000			▏█─┤▐┝		┣╾┦┣┣╾┦		
		lar06 Apr06	May06 Jup06			at06 Nov06	
0 Dec05 Jar	106 Feb06 N	Mar06 Apr06	May06 Jun06	Jul06 Aug	06 Sep06 O	ct06 Nov06	
Dec05 Jar				Jul06 Aug(	06 Sep06 O	ct06 Nov06	
Dec05 Jar	nmary Income	Mar06 Apr06	etail				
Dec05 Jar	nmary Income Dec05	e & Expense De Jan06	etail Feb06	Mar06	Apr06	May06	Jun06
Dec05 Jar come & Expense Sum Revenue	nmary Income Dec05 62596.51	e & Expense De Jan06 56827.81	etail Feb06 53939.73	Mar06 53666.89	Apr06 39263.75	May06 55277.35	47814.84
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold	1mary Income Dec05 62596.51 -1120.50	e & Expense De Jan06 56827.81 -3717.57	etail Feb06 53939.73 -687.56	Mar06 53666.89 -3062.97	Apr06 39263.75 -199.09	May06 55277.35 -2013.29	47814.84 -3930.71
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor	Dec05 62596.51 -1120.50 -51505.57	e & Expense De Jan06 56827.81 -3717.57 -22993.86	Feb06 53939.73 -687.56 -23377.19	Mar06 53666.89 -3062.97 -22930.80	Apr06 39263.75 -199.09 -24339.49	May06 55277.35 -2013.29 -22963.12	47814.84 -3930.71 -34503.14
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses	Dec05 62596.51 -1120.50 -51505.57 -35195.78	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08	tail Feb06 53939.73 -687.56 -23377.19 -7033.13	Mar06 53666.89 -3062.97 -22930.80 -6998.83	Apr06 39263.75 -199.09 -24339.49 -10976.21	May06 55277.35 -2013.29 -22963.12 -10689.58	47814.84 -3930.71 -34503.14 -8135.82
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses Write Off Expense	Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00	47814.84 -3930.71 -34503.14 -8135.82 0.00
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses Write Off Expense Other Revenue	Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00 0.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00 0.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00 0.00	47814.84 -3930.71 -34503.14 -8135.82 0.00 0.00
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses Write Off Expense Other Revenue Other Expenses	Income Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00 0.00 0.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00 0.00 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00 0.00 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00 0.00 0.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00 0.00 0.00	47814.84 -3930.71 -34503.14 -8135.82 0.00 0.00 0.00
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses Write Off Expense Other Revenue Other Expenses	Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00 0.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00 0.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00 0.00	Jun06 47814.84 -3930.71 -34503.14 -8135.82 0.00 0.00 0.00 0.00 0.00
• • •	Income Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00 0.00 0.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00 0.00 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00 0.00 0.00 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00 0.00 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00 0.00 0.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00 0.00 0.00	47814.84 -3930.71 -34503.14 -8135.82 0.00 0.00 0.00
Dec05 Jar come & Expense Sum Revenue Cost Of Goods Sold Cost of Labor Operating Expenses Write Off Expense Other Revenue Other Expenses Income Taxes	Income Dec05 62596.51 -1120.50 -51505.57 -35195.78 -600.00 0.00 0.00 0.00	e & Expense De Jan06 56827.81 -3717.57 -22993.86 -13279.08 0.00 0.00 0.00 0.00	tail Feb06 53939.73 -687.56 -23377.19 -7033.13 0.00 0.00 0.00 0.00 0.00	Mar06 53666.89 -3062.97 -22930.80 -6998.83 0.00 0.00 0.00 0.00	Apr06 39263.75 -199.09 -24339.49 -10976.21 -300.00 0.00 0.00 -800.00	May06 55277.35 -2013.29 -22963.12 -10689.58 0.00 0.00 0.00 0.00	47814.84 -3930.71 -34503.14 -8135.82 0.00 0.00 0.00 0.00

#### 14.1.8 Print/Clear Checks

This module will allow you to print, reprint, clear and unclear checks. pc/MRP Versions 6.63C and higher added the option to print a remittance report. For further details, see the Printing Check chapter, 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 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. 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. (to Index, see 15.14.3)

# 14.1.13 Post Month With Financial

Post Month with Financials automatically retrieves each accounts 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.

Month Close
Select the reports to be printed or displayed
Profit and Loss Report
Current Month Trial Balance
Div/Dept YTD Exp-Rev Reports
✓ YTD Expense and Revenue Report
✓ <u>T</u> rial Balance current and YTD
✓ General Ledger ✓ Transaction Report
<u>O</u> K <u>C</u> ancel

# 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 (can cause transaction report to go into an endless loop on that transaction number), blank transaction numbers, and duplicate blank transaction numbers (can 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 module 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 pcMRP Accounting

pc/MRP for	Windows				
<u>M</u> odules <u>T</u> ools	<u>O</u> ptional	<u>C</u> onfiguration Ma <u>n</u> ual			
<u>I</u> nventory <u>B</u> OMs Stoc <u>k</u> room	+ + +				
<u>P</u> urchase <u>R</u> eceive Work Order Sales Order In <u>v</u> oice	* * * *				
Address Book	•				
Accounting	•	<u>G</u> L Transactions	•		
E <u>x</u> it		Accounts Payable Accounts Receivable			
		<u>R</u> eports <u>P</u> ay Bills / Print / Clear checks	•		
		<u>C</u> redit Memos <u>D</u> ebit Memos	•		
		Chart of <u>A</u> ccounts Tax Code <u>E</u> ntity Post Month w/ Print <u>E</u> inancials Enter / Edit <u>B</u> udget Figures	*		
		Audit <u>T</u> ransactions Audit & <u>U</u> pdate Address Balances			
		IRS Tax Forms Wells Fargo Account Reconcilement	•		
		T	-	 NUN	
Add or Edit a Gene	rai Ledger	Transaction			

# 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 users 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 bold):
  - Select option 8, to turn auto accounting on or off, see manual, section 15.1.8
  - Select option 10, to run periodic or **perpetual** accounting inventory methods, see manual, section 15.1.10
  - Select option 14, to **allow** 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 manual, 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 manual, section 15.1.11
  - Select option 12, to turn set multi-div to key on product code or division, see manual, 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 manual, section 15.1.9
- 5. Set options 35, 45, and, 59 in the settings and utilities configuration menu to use standard or averaged costs.
- 6. Set option 42 in the settings and utilities configuration menu to use the vendor price list, V.

# 14.2.3 Entering Starting Balances into pc/MRP's Accounting Module

After the Chart of Accts has been established, the acct balances must be transferred in by entering accounting transactions and not by inserting the dollar amounts directly into the Chart of Accts 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 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 detail 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". 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.
- Use the PO Module to enter each open unpaid PO. Make sure the PO date is the date you originally placed the order.
- Use the Receiver Module to enter each open unpaid Receiver. Make sure the Receiver date is 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				_ 0	×
Receiver# 000001	Vendor Inv	VI000001	Subtotal:	1435.6000	<u> </u>
Account Id BBC001	Date	11/09/2002	Paid:	0.0000	
Company			Debit Memo:	0.0000	
BBC MANUFACTURING C	OMPANY	Complete	Total:	1435.6000	
					$\frac{1}{2}$
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	
					<u> </u>
Close up to a <u>D</u> ate Complete <u>A</u> ll	Open Receiv AP w Debit Open Debit		emo Totals 1459.6000 0.0000	<u>O</u> k <u>C</u> ancel	

This screen allows you to 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, 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 COMPANY Total	0.0000	✓ Posted
Invoice # 000002 Account Id ABC001 Company ABC MANUFACTURING C	Date 10/11/2002 Subtotal Paid Credit Memo COMPANY Total	0.0000	I 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:	Memo 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. Also, make sure when you close the month with your beginning balances, to save the close on a floppy. (pc/MRP will automatically ask you to do this. Simply enter a floppy and press **COPY**) This may require that you close the month, confirm that the close is good, then re-close the same month, but this time make the backup floppy. This will create a backup of your beginning balances. Do not ever use this disk again without consulting Software Arts first.

# 14.3 Chart of Accounts Module

pc/MRP for	Windows	- Version 8.1	IOK (Us	er: DOUG)						_ D ×
Modules Tools	Optional	<u>Configuration</u>	Ma <u>n</u> ual	De <u>v</u> eloper	<u>H</u> elp					
Inventory	+									
<u>B</u> OMs	•									
Stockroom	+									
Purchase	+									
<u>R</u> eceive	+									
Work Order	+									
<u>S</u> ales Order	+									
In <u>v</u> oice	•									
Address Book	c 🕨									
Accounting	+	<u>G</u> L Transac	tions			+				
Exit		Accounts P	ayable			) I				
		Accounts R	ecei <u>v</u> able					,		
		Reports						-		
		Drill Down F	Penartina			L M			a new Base C	
		Pay Bills / P		r checke		. —			ts Number, s	
			ninit / Ciea	II CHECKS		Ire	e Arts		Accounting, ( ounts and Nev	
		<u>C</u> redit Memo	os			γµς	/ / / (Q			
		<u>D</u> ebit Memo	s			•				
		Chart of <u>A</u> co	counts			• <u>N</u> e	ew h			
		Tax Code <u>E</u>	ntity			▶ <u>E</u> d	lit / View			
		Post Month	w/ Print <u>F</u>	inancials		Pri				
		Enter / Edit	<u>B</u> udget Fi	gures		<u></u> n				
		Audit Transa	actions			Inc				
		Audit & Upd		ss Balances		Re			the chart of: . To edit the	
									f, use Configu	
		IRS Tax For		_					Option 72 as	
		Wells Fargo	Account	Reconcileme	nt			ged everyw	here, transact	
Add, Edit, or Deleti	e a Chart-o	f-Account						archive co	pies, etc.	

# 14.3.1 Overview (see slideshow here: <a href="http://www.pcmrp.com/mrp101/chartofaccountsnewbase.htm">http://www.pcmrp.com/mrp101/chartofaccountsnewbase.htm</a>)

pc/MRP comes with a standard set of chart of account numbers such as 6250000 for Utilities, 1030000 for Savings Account, etc. The first four characters are reserved for the base account number and the last four characters are reserved for division and department number. 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 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 below.

pc/MRP Versions 8.03 and lower allowed divisional accounts but not category sub accounts.

pc/MRP Versions 8.04a – 8.04d allowed divisional and category sub accounts.

pc/MRP Versions 8.04e and higher allows:

- A user to add a base divisional chart of accounts by clicking on Chart of Accounts New \*
- A divisional sub account to report to a base corporate chart of account (ends in 0000)
- A user to select a divisional sub account as a parent account.

pc/MRP Versions 8.43f and higher allows:

- The Div/Dept YTD Expense and Revenue reports to work with div sub accounts that have 0000 parent accounts.
- A user to 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 (pc/MRP V8.50 & higher).

# 14.3.2 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

#### 14.3.3 Establish a set of sub-chart of account numbers on paper

pc/MRP Versions 8.04e and higher allow 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

As of pc/MRP versions 8.50AR, 8.55T, & 8.56B and higher, both of the above patterns will work.

#### 14.3.4 Entering a base chart of account number

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:\V851 (User: DOUG)	
2.Select Debit or Credit	CASH 5. Select if it is Tax Deductable or not. 3. Enter the new Chart of Accounts Description If the account Type is AC and it is a Debit Account,
Period Period 01 Period 02 Period 03 Period 04 Period 05	Bal Budget Bal Budget Checking Account. Requires pc/MRP Version 8.50 and higher.
Period 06 Period 07 Period 08 Period 09 Period 10	Note:     To edit the chart of account number itself, use Configuration, Settings and Utilities, Option 72 as it must be
Period 11 Period 12 Period 13	Save/Exit Carel
Periodchart	

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 upgrading to 8.50 or higher, 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.

#### 14.3.5 Entering a sub chart of account number

To create a base 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.

📮 VFP -	C:\¥851 (User: DOUG	)				_ 🗆 🗵
Modules	Tools Optional Conf	iguration Manual De	eveloper Help			
	Chart of Accounts	0000 Acct Type t Tax Deduct tricity	EN I Accou	inter the new int Description.		
	, 				<u>k</u> —	
	Period	Starting Bal	Ending Bal	Budget		
	Period 01					
	Period 02					
	Period 03					
	Period 04				<ol> <li>Scroll and se</li> </ol>	
	Period 05				Parent Chart of Ac	
	Period 06				this case we selct	
	Period 07				Account Number 6 The Debit/Credit,	
	Period 08				Type and Tax De	
	Period 09				automatically b	
	Period 10				match the parent	
	Period 11					
	Period 12					
	Period 13					
			<u>S</u> ave/Exit	<u>Cancel</u> 6. Pri	ess Save and Exit	
Periodcha	ırt		Record: 1	1/13 E	Exclusive	NUM

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

# 14.3.6 Register your default account numbers.

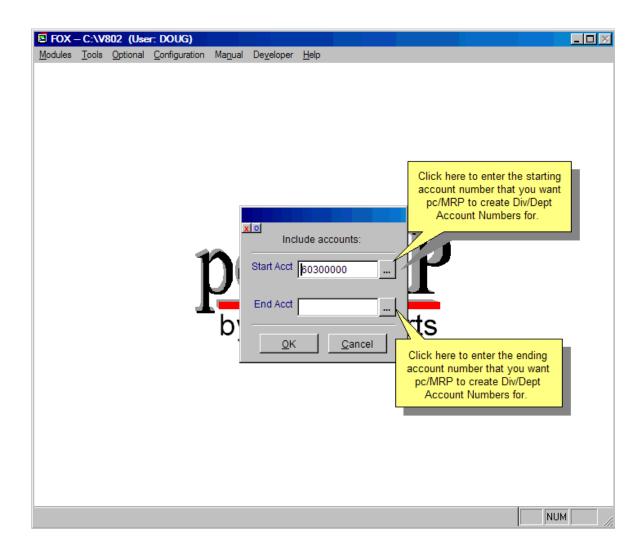
Once your base chart of account numbers are established, you must register your default account numbers with pc/MRP. This will allow pc/MRP to automatically pull up the correct accounts to debit and credit when you are making an entry into the general ledger. For example, pc/MRP needs to automatically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

SCROLL WINDOW Select				
Acct Description		Acct Number	r	<u> </u>
AcctsPay	0000	20100000		
AcctsRec	0000	11100000		
Busincome	0000	30100000	<u></u>	
CostOfGoodsSold	0000	40150000		
FicaLiability	0000	22110000	Enter your default chart of	
FreightExpense	0000	41400000	account number for every type of	
FreightIncome	0000	30150000	account listed.	
FwtLiability	0000	22100000 l		
GrossWageExpense				
Inventory	0000	12100000		
OperatingExpense	0000	63500000		
OverheadExpense	0000	50150000		
PrimaryChkAct PurchaseDiscount	0000	10200000		
Purchases	0000	41900000		
SaleDiscount	0000	30850000		
SalesTaxLiability	0000			
		21100000		
SdiLiability SsecMediPayrollExpense	0000	22130000 51100000		
SwtLiability	0000	22140000		
SwiLlability	0000	22140000		

# 14.3.7 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.



# 14.3.8 Edit/View (A Chart Of Accounts)

Allows you to edit a Chart of Account Number. 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 had 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.

# 14.3.9 Print (Display The Chart Of Accounts)

Allows you to printout or display the Chart of Accounts. pc/MRP's Chart of accounts are further defined as follows:

14.3.10 Index (see 15.14.3)

14.3.11 Remove Marked Records (see 15.14.4)

# 14.3.12 Chart of Accounts Categories

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 A EL A EN A EW A EO A	ccounts are categorized as follows: ccounts will be totaled under Cost of Goods ccounts will be totaled under Cost of Labor ccounts will be totaled under Normal Operation ccounts will be totaled under Write off Experience ccounts will be totaled under Other Expenses ccounts will be totaled under Income Taxes	ing Expen	ses<		
RN A	ccounts are categorized as follows: ccounts will be totaled under Revenue ccounts will be totaled under Other Revenue				
QN A	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 A	Accounts are categorized as follows: ccounts will be totaled under Current Liabil ccounts will be totaled under Long Term Liak				
AF AG AC AG AL AG	ounts are categorized as follows: ccounts will be totaled under Fixed Assets ccounts will be totaled under Current Assets ccounts will be totaled under Long Term Asse ccounts will be totaled Accum Write Offs				

# 14.3.13 pc/MRP Chart of Account Structures 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
<ul> <li>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 &amp; child debit/credit accounts do not have to match</li> </ul>
Example: Utilities $(1^{st})$ 6250 0000 Utilities Div 1 $(2^{nd})$ 6250 0100 Water Div 1 $(3^{rd})$ 6251 0100 Electricity Div 1 $(3^{rd})$ 6252 0100 Utilities Div 2 $(2^{nd})$ 6250 0200 Water Div 2 $(3^{rd})$ 6251 0200 Electricity Div 2 $(3^{rd})$ 6252 0200
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 Edit the Debit/Credit Field Must have no existing transactions Must have no existing transactions Must have no existing sub accounts Edit the Debit/Credit Field Must have no existing sub accounts Edit the Full ID Field Must have no existing transactions Must have no existing transactions Must have no existing transactions Must have no existing transactions Must have no existing sub accounts Must have no twin div/dept accounts
<ul> <li>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)</li> <li>Delete a Base Sub Chart of Account Must have no transaction history</li> </ul>
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)

# 14.4 General Ledger Module

pc/MRP for V	Windows				<u> </u>
<u>M</u> odules <u>T</u> ools	<u>O</u> ptional	<u>C</u> onfiguration Ma <u>n</u> ual			
<u>I</u> nventory <u>B</u> OMs					
Stoc <u>k</u> room	•				
<u>P</u> urchase	•				
<u>R</u> eceive	•				
Work Order					
<u>S</u> ales Order					
Invoice					
Address Book					
Accounting	<u> </u>	<u>GL</u> Transactions	•	New Transaction	
Exit		Accounts Payable		Edit / View Transaction	
- <u>-</u>		Accounts Recei <u>v</u> able	<u> </u>	Scroll Transactions	
		<u>R</u> eports		Index	
		Pay Bills / Print / Clear checks	•	Remove <u>Marked Records</u>	
		Credit Memos		Remove over⊻Years	
		Debit Memos	•		
	-	-			
		Chart of <u>A</u> ccounts			
		Tax Code <u>E</u> ntity Post Month w/ Print <u>F</u> inancials	· ·		
		Enter / Edit Budget Figures			
	_				
		Audit <u>T</u> ransactions			
	_	Audit & <u>U</u> pdate Address Balances			
		IRS Tax Forms	•		
		Wells Fargo Account Reconcilement			
	_			I	
Add or Edit a Gener	ral Ledger	Transaction		NUM	

# 14.4.1 GL Transactions, New Transaction (entering)

Selection 1 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:

pc/MRP for W     Enter Modules Tools (	ing an Accounting S (Cash and Carry) Transaction
	New General Ledger Transaction
	Select the GL transaction type
	Image: Second structure       Image: Second structure         Image: Second structure       Image: Second structure </th
	OK       Canc         OK       Checking account. If necessary, pc/MRP         2. Press Ok to Continue.       Overhead accounts. pc/MRP will automatically credit the Income account listed for that part number or the default Income account. If necessary, pc/MRP         will also automatically credit the default Income account. If necessary, pc/MRP         will also automatically credit the default Income account. If necessary, pc/MRP         will also automatically credit the default Inventory, Sales Tax, Freight, Wages, and Overhead accounts.

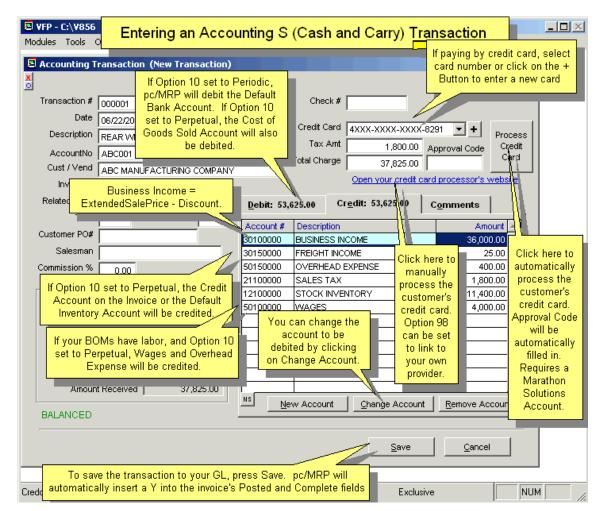
If you select an S, O, or R type transaction, pc/MRP will prompt you to scroll the invoice file to locate the invoice or AR Voucher. You can scroll on document number (invoice number), customer account number, part number, model number, and or sales order number.

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 also 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.



# Cash and carry / On Account & Carr: y 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 abandon 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 invoice with the correct values.

If Multi Divisions is Off (Default Setting Option 11, pc/MRP Versions 7.01 and higher) The Income Chart of Accounts
Case the Invoice or Part contain an Income Credit Account (uses invoice if populated) pc/MRP credits the Income Account listed in the Invoice or Part
Otherwise
pc/MRP credits the Income Account listed in the Default Account Template
Remaining Chart of Accounts (Bank, Frt, Tax plus Inventory and COGs if Option 10 = Perpetual)
pc/MRP Debits and Credits Accounts listed in the Default Accounts Template
If Multi Divisions is On (Option 11)
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"

## 14.4.1.2 Register accts receivable invoice (O):

Modules Tools C Entering an Accounting O (Register Invoice) Transaction	
Accounting Transaction (New Transaction)	×
Transaction #         000001         Type         O         Related Doc#           Date         11/04/2009         Entered By         DOUG         Task         Sub-Task	
Description         REAR WHEEL ASSY           AccountNo         ABC001           Cust / Vend         ABC MANUFACTURING COMPANY	tion 10 set to
Business Income = ExtendedSalePrice - Discount. Debit: 53,625.00 Credit: 53,625.00 Comments	
Extended Sale Price       40,000.00       Account #       Description       Amount         Terms Discount       -4,000.00       30100000       BUSINESS INCOME       36,000.00         Tax for Line Item       1,800.00       Freight for Line Item       25.00       12100000       STOCK INVENTORY       11,400.00         Intel with Tax & Freight       37.90       11,400.00       SALES TAX       1,800.00         If Option 10 set to Perpetual, the Credit Account on the Invoice or the Default Inventory Account will be credited       S0150000       FREIGHT INCOME       25.00         50150000       OVERHEAD EXPENSE       4000.00	
New Account Change Account Remo	RP gets the , COGs, Labor rerhead dollar
You can change the accounts to be debited or credit by clicking on the Account Buttons. To save the transaction to your GL, press Save. pc/MRP	nts from the records using age or standard sts as per ation, Settings ies, Option 35.

#### 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 the Default Accounts (Option 9) for the amt 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, Versions 7.60Q and higher only use 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 in versions 7.60Q and higher.

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.

With pc/MRP versions 7.70 and higher, outside labor is rolled into inventory and inside labor is rolled into gross wages.

Charging a credit card v	vith an R Type (Receive Payment) <u>Transaction</u>
When the accountant enters an R (I transaction, the credit card number inserted from the invoice. Another c selected from the drop down If it is a partial payment, manually ec Credits, Amt Received, Total Charge a	is automatically redit card can be list box. it Debits, id Tax Amt.
AccountNo ABC001 Cust / Vend ARROW ELECTRONICS Invoice # 200016 Sale # 100088	Credit Carut 4XXX-XXXX-8291  Process Tax Amt 180.00 Approval Code Total Charge 1,990.00 Open your credit card processor's website
Related Doc#     RELATED DOC/CONTRACT#       Task     Sub-Task       Customer PO#	Debit: 1,990.00       Credit: 1,990.00       Comments         Description       Amount         ACCNT/RECVB.CUSTOMERS       1,990.00         Click here to manually       Click here to
Extended Sale Price 2 000 00 In this example, accounting first entered an O Type Transaction debiting Accounts Receivable and is now entering an R Type Transaction which will credit Accounts Receivable and debit the default credit card account (usually a checking account) for \$1,990.00.	process the customer's credit card.       automatically process the customer's credit card.         Option 98       credit card.         Can be set       Approval Code will be automatically process the customer's credit card.         You can change the account       Remove Account         You can change the account       Save
Creddexuar	to be debited by clicking on Change Account.

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 abandon 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 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 Versions 7.01 and higher) 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"

VFP - C:\V84	Entering an	Accounting	P (Cash Purch	ase) Transact	tion
Accounting	Transaction (New Tra	nsaction)			nter the vendor's
Transaction # Date Description AccountNo Cust / Vend	11/05/2009 Entered B BEARING SS BBC001 BBC MANUFACTURING C	. 1000			Comments pc/MRP Versions 8.32A and higher.
Tern Tax f Freight f Total with Ta Amount I	d Sale Price ns Discount or Line Item or Line Item	57.25	# Description     STOCK INVENTORY	If Option 10 is Default Inve debited . It Default Purch will be debite inventory item	Amount 47.25 10.00 s set to Perpetual, the ntory Account will be f set to Periodic, the nase Expense Account d. If the PO is for non s the Default Operating scount will be debited.
			hange Account another account.	Save	Cancel
auto	. To save the transac omatically insert the a receiver's Complete fie	mount paid into th	ie receiver and a Y int	to the	d /

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 abandon 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.

If Multi Divisions is Off (Default Setting Option 11, pc/MRP Versions 7.01 and higher) 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

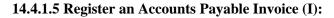
Else the receiver has a division

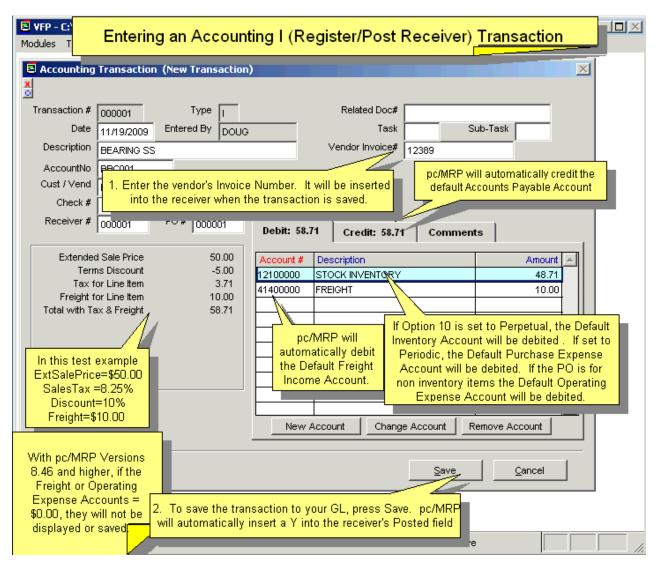
If the default account + division exists

Debit/Credit the default Accounts + Division

Else the Default Account + Division do not exist

Debit/Credit the Default Accounts + "0000"





## 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 abandon 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, & lastly, Option 9 for the default inventory account. It the screen presented above, the default inventory account is 12100000.

If Multi Divisions is <b>Off</b> (Default Setting Option 11, pc/MRP Versions 7.01 and higher) 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 <b>Perpetual</b> will debit the account in the receiver, partmast, or default
Inventory Account in that order.
If Option 10 is set to <b>Periodic</b> 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 <b>On</b> (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 <b>Perpetual</b> debit the Default Inventory Account
If Option 10 is set to <b>Periodic</b> 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 <b>Perpetual</b>
If exists in chart of accounts debit the Default Inventory Account + division
Else debit Default Inventory Account + "0000"
If Option 10 is set to <b>Periodic</b>
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"

## 14.4.1.6 Accounts Payable Payment (expense) (E):

Modules Tools of Entering an Accounting E (Expense) Transaction
Accounting Transaction (New Transaction)         Image: Strategy of the strategy of t
You can change the accounts to be debited or credit by clicking on the Account Buttons.
2. To save the 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.

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 abandon 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 received 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.

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 Versions 7.01 and higher)
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"
```

VFP - C:\V846 (User: DOUG) Modules Tools Optional Configuration Manual Dev	reloper Help
Modules Tools Optional Configuration Manual Dev	
BALANCED	employee or the total amount for New Accor all employess for the payroll run.
	<u>Save</u> <u>Cancel</u>
Transact (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 another 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**: 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 in the manual section 14.5.7.

## 14.4.1.8 Adjusting transaction types (A):

E pc/MRP for Windows - Version 8.20B
Modules Tools Optional Configuration Manual
Credit: 0.00 Debit: 5000.00 Chart # BANK CHECKING ACCOUNT 3,000.00 HAMOUNT 2,000.00 BANK SAVINGS ACCOUNT 2,000.00 Enter dollar amount. 0.00 Click on the Button to Add or Change a Chart of Account Number UNBALANCED (5000.00) Press the Save Button to save the transaction. 0.00 Save Cancel
Chartacc (c:\pcmrpmanualdemo\chartacc.dbf) Record: 3/84 Record Unlocked

#### 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. Rent, depreciation, and cash purchases 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.

Slideshow at: <u>http://www.pcmrp.com/mrp101/editaccountingoption14.htm</u>

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**, the options to edit 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 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 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 will not 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 has been edited since entering the transaction, select "Manual". After manually editing the transaction, you must then 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 amount paid and complete fields. He 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.

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.

#### 14.4.3 Scroll (Transactions)

Allows you to scroll and display accounting transactions. You can scroll on:

- D Document Number (Transaction Number)
- A Account Number (Customer/Vendor ID Number)
- P Part Number

Having selected the field to scroll on; pc/MRP will prompt you to enter the first characters to begin scrolling at for that field. For example, if you wanted to display the accounting transaction containing a payment from ACHME CORP you could scroll on A, Account Number and begin scrolling at ACH. Once you have located the record press to display it.

#### 14.4.4 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(mtrantype)
                                                 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 stay 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 settinpit WITH 'AcctsRec', mcacc1

CASE mtrantype = "O" && sale on account

DO settinpit WITH 'AcctsRec', mdacc1

IF EMPTY (MCACC1) OR MCACC1 = "MULTIPLE"

DO settinpit 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 .
```

#### 14.4.5 Index (see 15.14.3)

## 14.4.6 Remove Marked Records (see 15.14.4)

## 14.4.7 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

## **14.5.4.1 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)

#### 14.5.4.2 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 in pc/MRP versions 8.43 & higher) (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

pc/MRP V8.50

### **14.5.6 Perpetual Inventory Methods**

pc/MRP can be set in the configuration menu to use the perpetual inventory method (Version 6.49AS and higher only). <u>The Perpetual Inventory Method requires the inventory to be adjusted with each sale and purchasing transaction.</u> To employ this method the accountant must know the inventory cost for each sale. pc/MRP can provide those figures by first running the Automatic Cost Roll Up Option and then printing out an "All Parts Costed Report" in inventory. With this method, you must add a new account called "COST OF GOODS SOLD" to the chart of accounts as an "EG" Debit Account.

If you were to add labor to your BOMs you could manually credit inventory and overhead (credit acct) when debiting cost of goods sold.

Transaction type 'P' PURCHASE, CASH 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. SALE, CASH Transaction type 'S' 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 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	XES (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 CREDIT : BANK CHECKING 10200000	22140000	
PAYING STATE PAYROLL TAXES DEBIT : EXPENSES PAYROLL TAXES 51100000 CREDIT : ACCUM LIAB SUI 22150000 ETT 221600	000	

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
```

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

DEBIT OWNERS WITHDRAWAL (QN, 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 Credit Card Entries

If you plan to pay the credit card bill at a later date:

- 1. SELECT ACCOUNTING
- 2. SELECT ACCOUNTS PAYABLE VOUCHER
- 3. SELECT NEW AP VOUCHER
- 4. ACCEPT DEFAULTS: STORES, RECEIVER NUMBER
- 5. SELECT NO PARTNUMBER
- 6. SCROLL TO PICK UP THE BANKS ADDRESS
- 7. ENTER THE CREDIT CARD AND PAYMENT PERIOD IN DESCRIPTION
- 8. ENTER A QUANTITY OF 1
- 9. ENTER THE TOTAL DOLLAR AMOUNT IN PRICE FIELD
- 10. FILL IN COMMENTS
- 11. PRESS THE ACCEPT BUTTON
- IT WILL NOW ENTER AN I TYPE TRANSACTION
  - 11. ACCEPT THE NEXT TRANSACTION NUMBER
  - 12. DEBIT VARIOUS EXPENSE ACCOUNTS
  - 13. CREDIT AP OR AP-CREDIT CARD ACCOUNT FOR TOTAL AMOUNT OF EXPENSES.

Pay off the credit card bill at the later date using an E (expense) type transaction or a "Pay Bills Check Run."

## CREDIT CHECKING (10200000) DEBIT AP OR CREDIT AP-CREDIT CARD ACCOUNT

#### 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

# 14.6 Post the Month with Financials

pc/MRP for Windo	ws - Version 8.24C (User: doug)	
Modules Tools Option	al <u>C</u> onfiguration Ma <u>n</u> ual	pc/MRP Versions 8.20H
Inventory		and higher will create a
<u>B</u> OMs	•	CloseInProgress.Flg when a close is started. It will
Stoc <u>k</u> room	•	clear itself in 1 hour if the
Purchase	•	close is aborted. With
<u>R</u> eceive	»	Versions 8.23A and higher
Work Order	▶	the person who initiated the close can go back in
<u>S</u> ales Order	▶	immediately and reclose.
In <u>v</u> oice	▶	
S <u>h</u> ipment	•	
<u>A</u> ddress Book	· · · · · · · · · · · · · · · · · · ·	
Accounting	GL Transactions	
Exit	Accounts Payable	•
<u></u>	Pay Bills / Print / Clear checks	
	Accounts Receivable	
	Receive Customer Payment	
	Ire Arts	
	Drill Down Reporting Income & Expense Graph To close a month, reclose a	
	Income & Expense Graph month or reprint a close, select	
	Credit Memos Modules, Accounting, Post	16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Debit Memos Month and Print Financials.	If you select to reclose a prior month and pc/MRP has
	Chart of Accounts	a backup of that month,
	Tax Code Entity	(charMMYY.dbf), pc/MRP
	Post Month w/ Print <u>Financials</u>	will ask if you wish to "Reprint" or "Reclose" the
	Enter / Edit <u>B</u> udget Figures	month. Both options will
	Audit Transactions	display and or print the
	Audit & Lladata Address Palances	financial statements.
Close a Month and print Fir		

# 14.6.1 Post the Month and Print Financials Overview (see slideshow here: http://www.pcmrp.com/mrp101/closemonthselectpostmonth.htm)

Post Month With Financials automatically retrieves each accounts 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 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.

## 14.6.2 Closing, Re-closing the Current month, or Closing the Next Month

If you select to close, re-close the current month (displayed) or close the next month, pc/MRP will display the starting and ending dates of the month you selected to close.

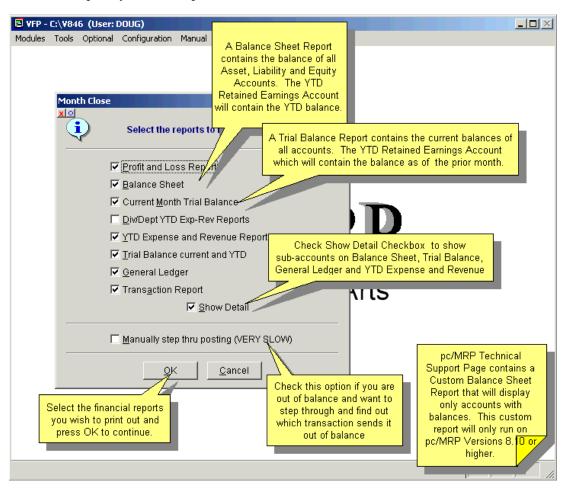
VFP - C:\V846 (User: DOUG) Modules Tools Optional Configura	tion Manual Developer H	elo		<u> </u>
xi⊙ <u>F</u> iscal Year Sta Closing a period Calander Mon Includes accour From: [	ts: January 💌	vare Ar	P	
	change during month c closing. This allows us to the manufacturing so	Settings and Utilities N lose", you can adjust t ers to run 4-4-5 accou chedule. Once a mon	Menu" has been set to the ending date of the p nting periods and or ad	"Allow date eriod you are just the close /MRP will not
Closedat (c:\v846\closedat.dbf)		Record: 300/624	Record Unlocked	

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).

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:\V854       Example of an Expense (EN,EO,EL,ET,EG), and or a Revenue         Modules       (RN,RO) Account after February Close					
	Chart of Accounts			example we used a typical Expense	
	Account# 6150	0000 Acct Type	EN 🚽	Account.	
	ebit/Credit Debit				
Accounts, the starting			res		
balances are copied to the	escription REN	Г			
ending balances. The ending	Sub Account of	_			
balances are debited and		J	lan 2011 Starting I	Balance	
credited by that month's transactions. \$0.00 is then	1			Jan 2011 Ending Balance	
copied to the next month's	Period	Starting Bal	Ending Bal		
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 Balance	
	Period 05	0.00	0.00		
	Period 06	0.00	0.00	0.00	
Note: The Chart of Accounts	Period 07	0.00	0.00	0.00	
Screen is a continuous lazy Susan screen. Eventually	Period 08	0.00	0.00	0.00	
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		
	Period 12 Period 13	0.00 0.00 ہے	. 1000.00 0.00	0.00	
	Penod 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.       Cancel					
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 balances.

Modules Tools Optional Equ		ount after Feb	ty (LC,LL) and ruary C <mark>lose</mark>	or _□×
With Asset, Liability, and Equity Accounts the starting	hart of Accounts Account # 1020 bit/Credit Debit Account BANK Sub Account of	0000 Acct Type	AC  No	s example we used ing, a typical Asset Account.
credited by that month's transactions. The ending balances are then copied to the next month's starting	Period	Starting Bal	Jan 2011 Starting   Ending Bal	Balance
balances.	Period 01     Period 02     Period 03	19825.00 18775.00 27775.00	18775.00 27775.00 0.00	0.00 0.00 0.00
	Period 04 Period 05	0.00	0.00	Feb 2011 Ending Balance
Note: The Chart of Accounts Screen is a continuous lazy	Period 06 Period 07 Period 08	0.00 0.00 0.00	0.00	0.00 0.00 0.00
Susan screen. Eventually Period 12 will contain the starting and ending balances	Period 09 Period 10	0.00	0.00	0.00 0.00 Dec 2010 Ending Balance
for Dec 2011.	Period 11 Period 12 Period 13	0.00 0.00 0.00	0.00 19825.00 0.00	0.00
Note: All Asset, Liability and Equity     Cancel       Accounts will have a starting balance = ending balance of the prior month.     Exclusive				

## 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.

## 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 General Ledger Report

The general ledger report (prgl.frx) displays the starting balance for the year, the starting balance for the month, the transactions for the month, the ending balance for the month, and the ending balance for the year for every chart of accounts that was debited or credited during that month.

The ending balance for each account is the same amount that is displayed in the Trial Balance and Balance Sheets. The Ending Balance for each account can be calculated by taking its beginning balance, adding its Transaction Totals for each of its sub-accounts.

## The 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 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 charxxx.dbf. In addition, pc/MRP will prompt you to make a copy of the chart of accounts data base file on a 3-1/2" floppy disk and label it charxxx.dbf. For example if you were to close November 2001, the backup file name would be char1201.

## 14.6.3 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 were any previous month was not closed correctly. Months must be closed sequentially.

## 14.6.4 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.

## 14.6.5 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.

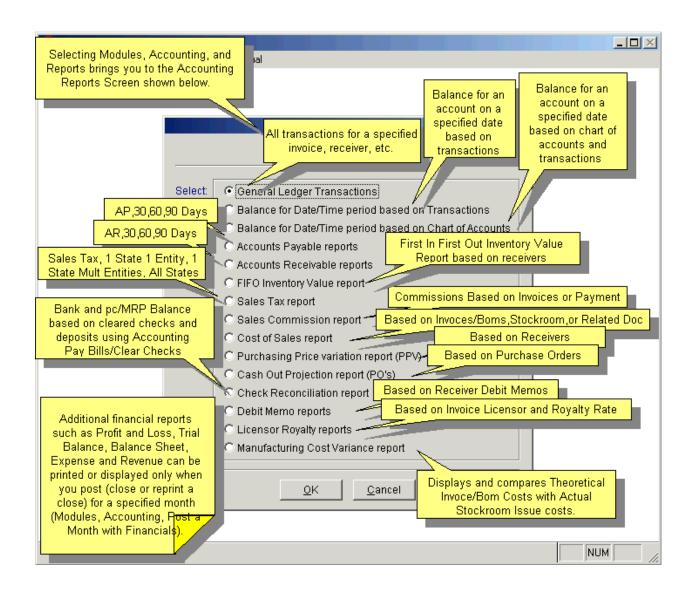
If you select **"Re-close"**, pc/MRP will warn you that after the close, you **must re-close every subsequent month** up to the current month that has been closed. The detail on how pc/MRP accomplishes this is listed below.

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 versions 7.50S and 7.51D and higher 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 7.50R and lower will retain the budget figures from the old close. 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. In addition, pc/MRP will prompt you to make a copy of the chart of accounts data base file on a 3-1/2" floppy disk and label it 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.

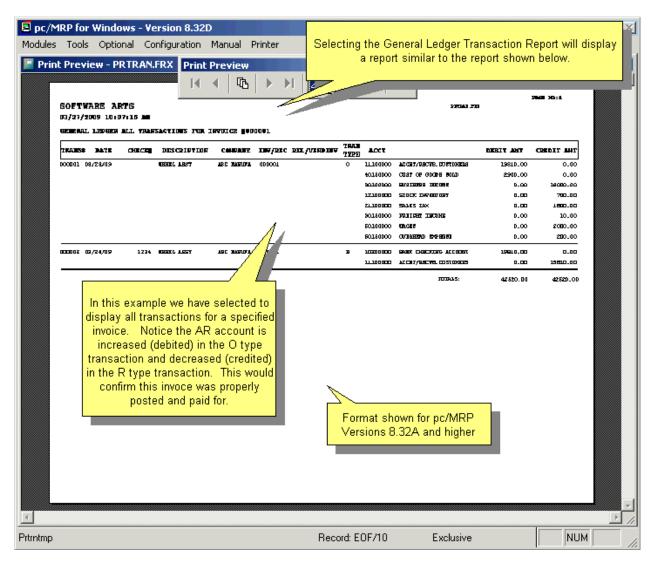
# 14.7 Accounting Report Module



## 14.7 Accounting Reports 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).

## 14.7.1 General Ledger Transaction Reports (Displays whole transactions)



This report displays all accounts debited or credited for every transaction displayed. This report can be filtered as shown below:

- M Month
- T Time period
- S Balance for a specific date
- A All transactions regardless of time

Include all transactions for a:

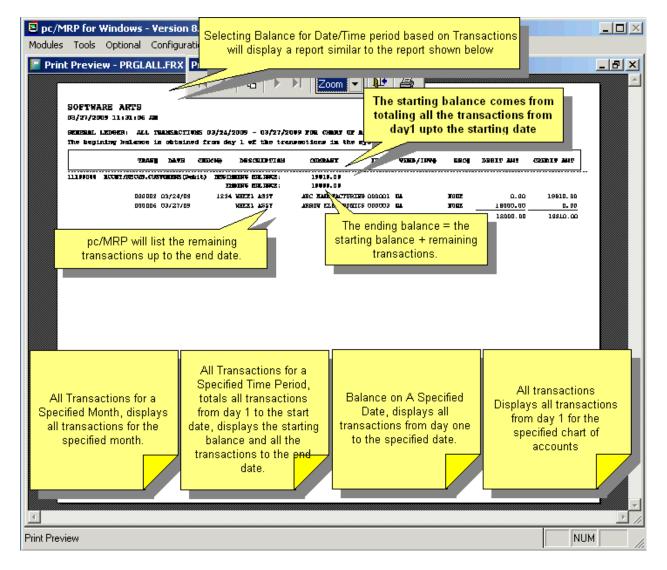
- C Chart of accts #
- V Vendor/customer acct #
- H Check #
- D Related Document #
- I Invoice #
- R Receiver #
- A All transactions

Types of transactions to include:

- A All
- S Cash sales only
- O Receivable vouchers only
- R Receivable payments only

- P Cash purchases only
- I Accounts payable vouchers only
- E Payable payments only
- W Payroll checks only

#### 14.7.2 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:

#### M Month

Displays all the transactions for that account for the specified month.

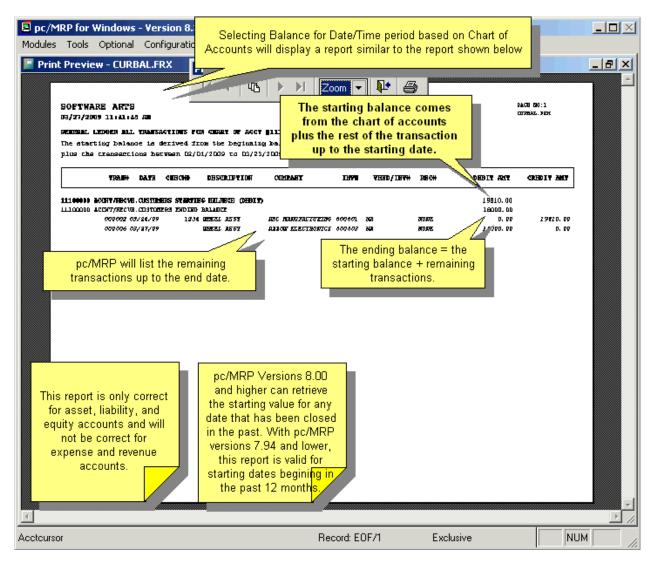
T Time period

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. S 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

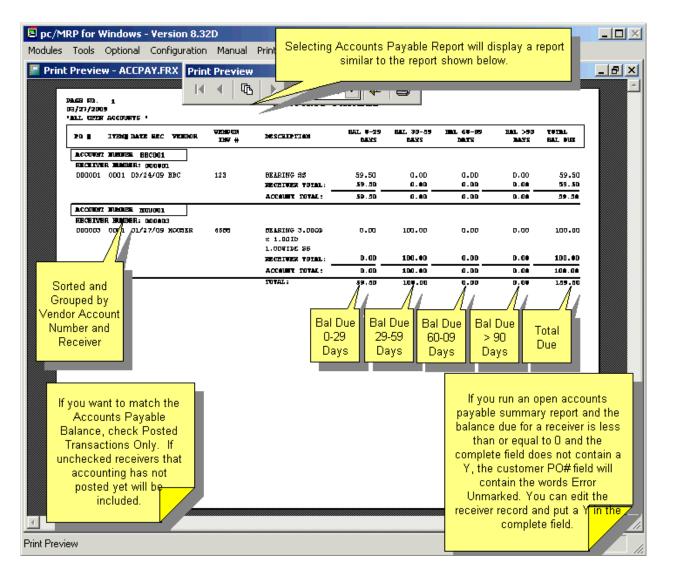
## 14.7.3 Balance for a date or time period based on chart of accounts.



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.

With pc/MRP versions 7.94 and lower, pc/MRP will display the starting balance at the start of the current fiscal year from the chart of accounts, all of the transactions up to the current date, and the total of the starting balance plus the transactions. For this report to work you must have closed at least one month in your current fiscal year.

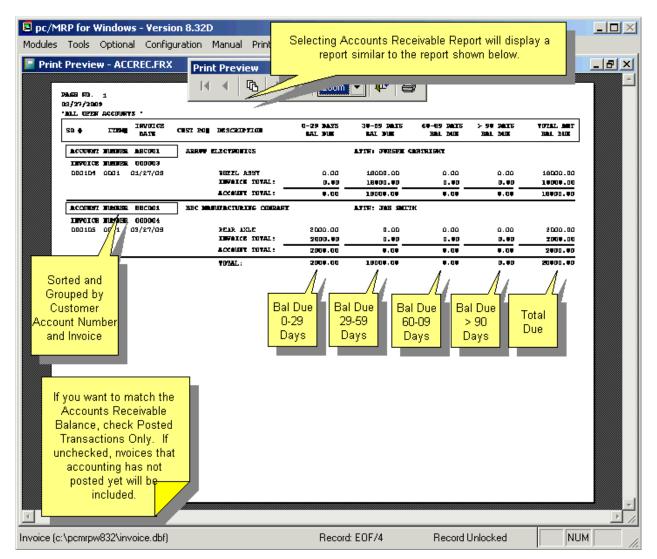
With pc/MRP version 8.00, you will be prompted to enter the chart of account number, start date and end date. You can select a starting date from any month that has been closed in the past. pc/MRP will locate the starting balance at the start month from the chart of accounts database files, total all 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.



Allows you to print out accounts payable reports. 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.

## 14.7.5 Account Receivable Reports



Allows you to print out accounts receivable reports. You can select all open, all closed and aging reports of 30, 60 and 90 days.

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#### 14.7.7 Sales Tax Report

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The sales tax report option prints and or displays a sales tax report for a specified time period. The sales tax reports will include all invoices entered during the time period you specify.

If you select In State, pc/MRP will sort and subtotal sales taxes due on the invoice tax type, such as taxable, resale, out of state, US government, etc. The report (taxlog.frx) will consist of invoices created during the time period specified. The invoices must contain sales tax type (automatically inserted from sales orders into invoices). If you create a custom in state report, it must be named ctaxlog.frx.

If you select Out of State, pc/MRP will sort and subtotal sales taxes due by the invoice state and tax entity code such as CA01, CA02, NY01, etc. The report (taxlogo.frx) will consist of invoices created during the time period specified. The invoices must contain tax entity code (automatically inserted from the address book into sales orders and then into invoices). If you create a custom out of state report, it must be named ctaxlogo.frx.

If you select Out of State for a specified state, pc/MRP will sort and subtotal sales taxes due by the tax entity code such as CA01, CA02 for the specified state such as CA. The report (taxlogo.frx) will consist of invoices created during the time period specified for the specified state. The invoices must contain tax entity codes (automatically inserted from the address book into sales orders and then into invoices). If you create a custom out of state report, it must be named, ctaxlogo.frx

If you are required to pay state sales taxes for only the county you are based in, print out the instate 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.

#### 14.7.8 Sales Commission Report

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Selecting f received durin month in the module uses . R, Revenue a Sale transac option will n calculate and tax if the invoi have differen	g a specifie accounting Accounting and S, Cash ctions. This ot correctly subtract th ce line it <del>em</del>	a 's n	during the sp will use the c was entere	voices issued recified month. late the invoice d and not on f the invoice.	line items uses the o the date pa fields in th option calculate mixed ta invoice. Co	ne invoice. will correctle and subtra ax rates on commissions reported wh	n full Is on Iplete This Y act an s will <del>Pn</del>	

Prints out or displays a Sales Commission Report for a specified month, subtotaled by Salesman. Commissions can be based on:

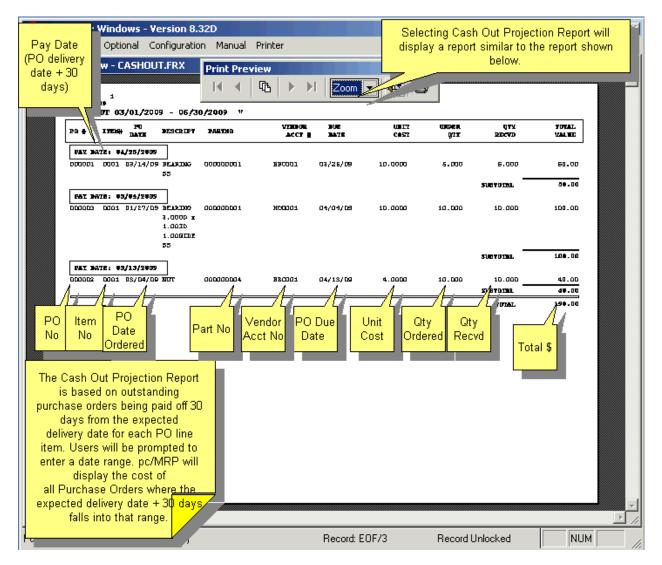
Payments received during a specified month in the accounting module.

This option basis 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. Invoices issued during the specified month.

This option basis 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.

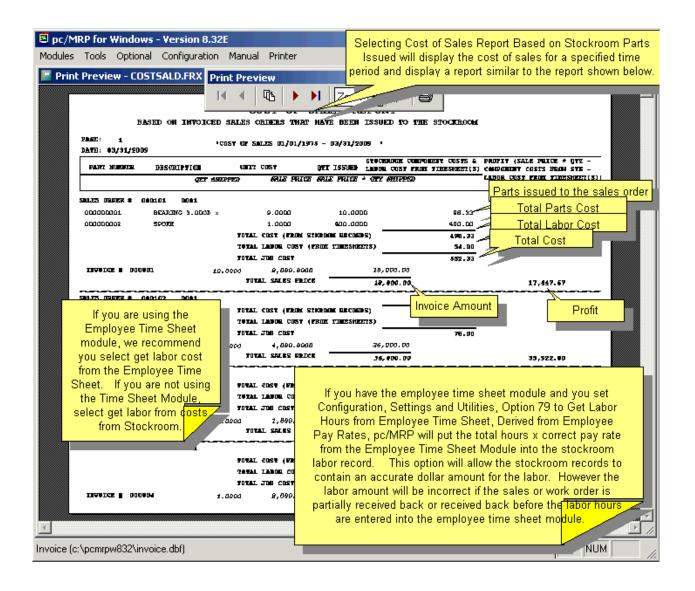
This option basis the commissions on the date paid and complete fields in the invoice. This option will correctly calculate and subtract mixed tax rates on an invoice. Commissions will only be reported when invoice line items are paid in full

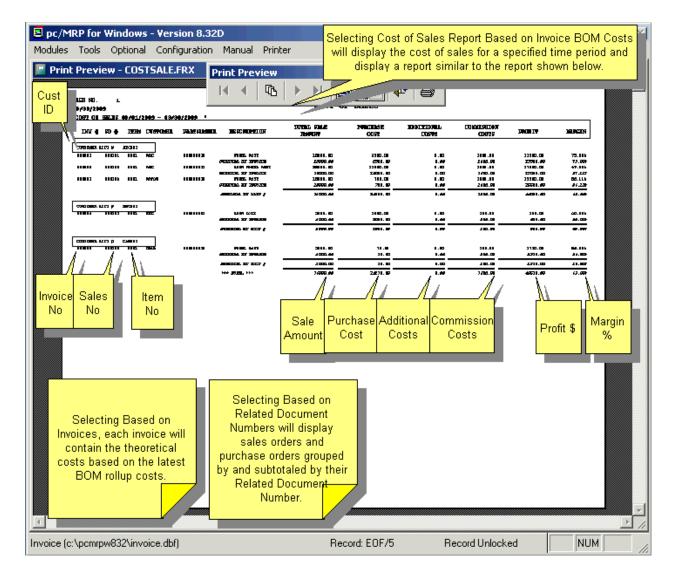
# 14.7.9 Cash Out Projection Report (POs)



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.

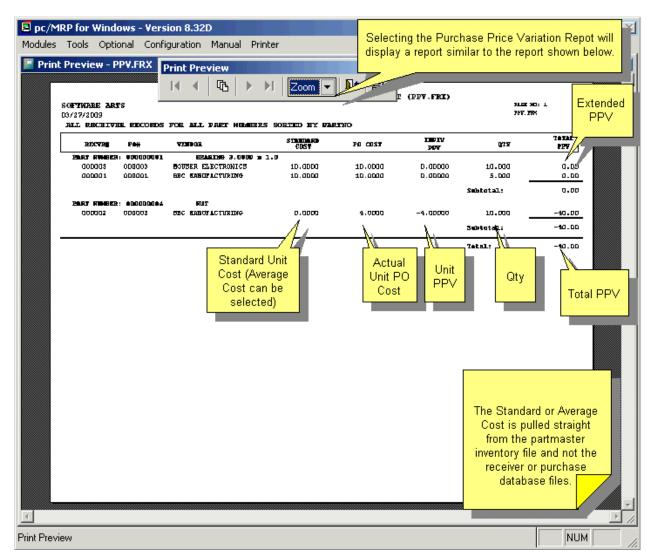
(1)





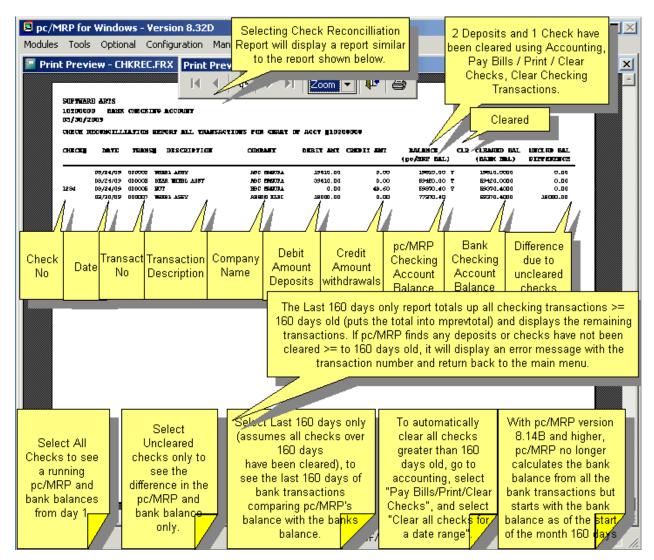
pc/MRP will allow you to print out a cost of sales report for a specified month based on invoices. Each invoice contains theoretical cost of the BOM based on cost-roll-ups or the cost based on stockroom transactions issued to those invoices. pc/MRP's Configuration Menu, Option 17, will allow you to select how the cost of sale for each invoice is obtained from inventory, from the Cost field from Related Purchase Orders, or turned off (P/R/O).

If the costs are populated from inventory, option 35 in the settings and utilities 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.



Accounting's Purchase Price Variation 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.

# 14.7.12 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 banks 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.

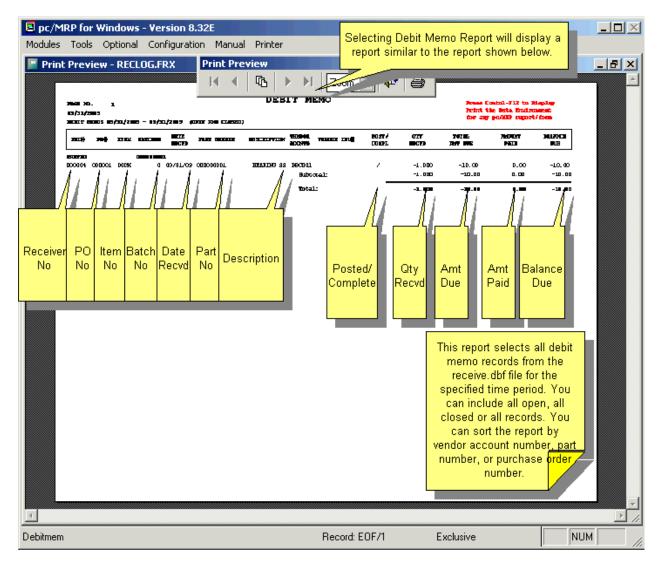
The Last 160 days only report first totals up all checking transactions greater than or equal to 160 days old. If pc/MRP finds any deposits or checks have not been cleared over or equal to 160 days old, it will display an error message with the transaction number and return back to the main menu. If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

With pc/MRP version 8.14B and higher, pc/MRP no longer calculates the bank balance from all the bank transactions but starts with the bank balance as of the start of the month 160 days back.

# 14.7.13 Debit Memo Reports



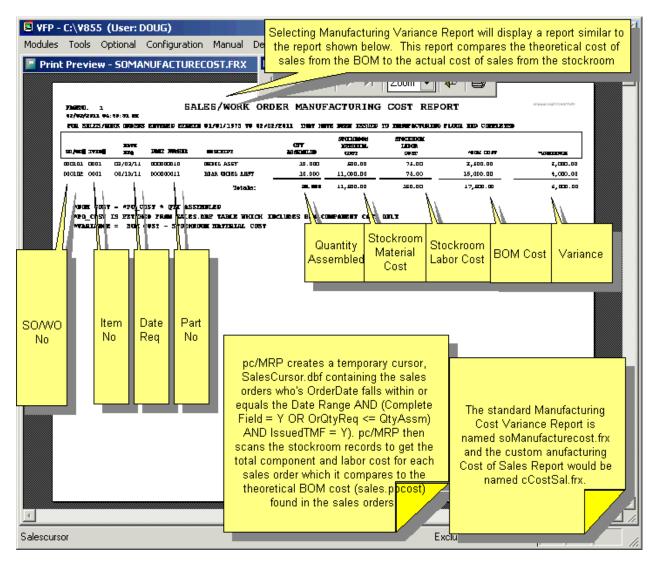
This report selects all debit memo records from the receive.dbf file for the specified time period. You can include all open, all closed or all records. You can sort the report by vendor account number, part number, or purchase order number.

# 14.7.14 Licensor Royalty Reports

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You can display/print a License Royalty Report for one licensor or all licensors for the time period specified. The report is sorted by licensor and sub sorted by part number, sales price, or royalty rate. The report uses the invoice database file which will contain the name of the licensor and royalty rate which is automatically inserted into the sales and invoice database files from the partmast database file.

# 14.7.15 Manufacturing Cost Variance Report

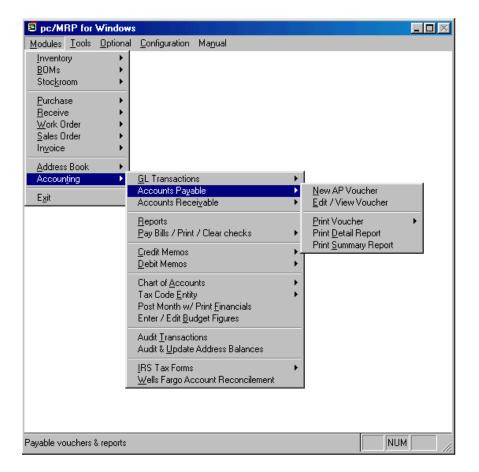


pc/MRP Versions 8.00 and higher contain the option to display/print a manufacturing variance report comparing the theoretical cost of sales (from the BOM) to the actual cost of sales (from the stockroom records). pc/MRP prompts the user to enter a date range for the order date of the sales orders to 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.

# 14.7.16 Accounting Report Errors

Accounting report errors can occur due to duplicate transaction numbers, duplicate blank transaction numbers, and incorrect dates. Accounting's Audit Option will automatically locate these transactions and allow you to correct them. Duplicate transaction numbers can cause an accounting report to loop on the duplicate number. To correct this delete one of the first duplicate transaction number. If necessary, the transaction can be re-entered with a new transaction number. Duplicate blank transaction numbers can cause an accounting report to loop on the blank transaction printing out only lines and no transactions. To correct this, delete the blank transaction numbers. Invalid dates such as 03/99/92 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 Module**



# 14.8.1 New (Enter an Accounts Payable Voucher)

Selection 1 allows you to enter payable vouchers for items or services that are not received by receiving, such as rent, utilities, freight, etc. All vouchers entered by the Accounts Payable Module will contain the letters "AP" as its Item Number. It is not necessary to enter vouchers for items received by receiving since the receiving module enters these vouchers automatically. Vouchers created automatically by receiving will contain line item numbers in their item number field.

Entering an accounts payable voucher will automatically update the general ledger. You must make certain you debit the correct Chart of Account when entering the general ledger. For example if you were entering rent as an accounts payable voucher you would debit 6150 for rent and not 4110 purchases.

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

Another way to isolate the receivers from automatically entering payables vouchers is to make a separate directory named ACCTING, copy a clean copy of pc/MRP into this directory and now both accounting and receiving can run their own programs. Be aware that this method will now require accounting to reenter the receiver data as vouchers.

When entering an accounts payable voucher you will be issued the next available Receiver Number. The PO Number will contain the word "NONE" and the Item Number will contain the letters "AP".

Date Received is automatically entered and is used by the Accounting Module in aging the Accounts Receivables records. It is also the date used to determine which Receiving records are over one year old and ready for deletion.

The **Part Number** will contain the letters "NA" as this module will not automatically move part numbers from on-order and into onhand as the Receiver Module does.

Description, Manufacturer, Model Number, Order Qty, Unit, Cost, 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.

**Quantity Received** should be entered by the computer operator. **Vendor Invoice** # must be entered when the vendor sends his invoice. This can be done by editing the Receiver or by entering a Payment Transaction in the Accounting Module.

After you examine the vendor's terms enter the **Date to be Paid**.

The **Complete** (Y/N) field must be filled out with either a **Y** or **N** depending on whether this line item has been paid. This field is used by the computer for the Accounts Payable Report. 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.

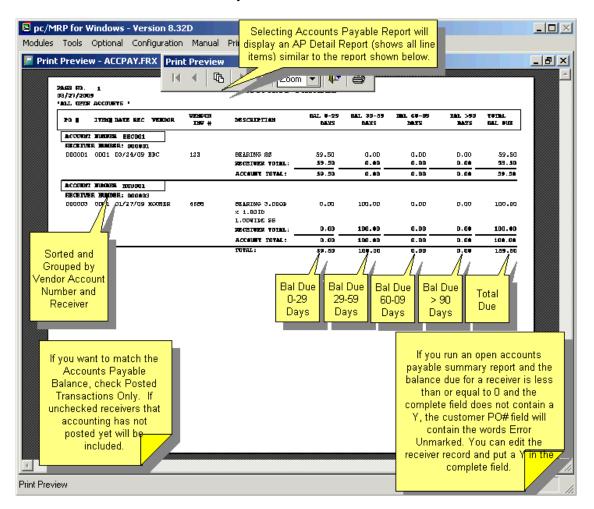
Since entering an AP Voucher automatically enters a general ledger transaction, editing an accounts payable voucher automatically takes you to the general ledger editing routine.

#### 14.8.3 Print Voucher

Allows you to print out an accounts payable voucher.

#### 14.8.4 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.



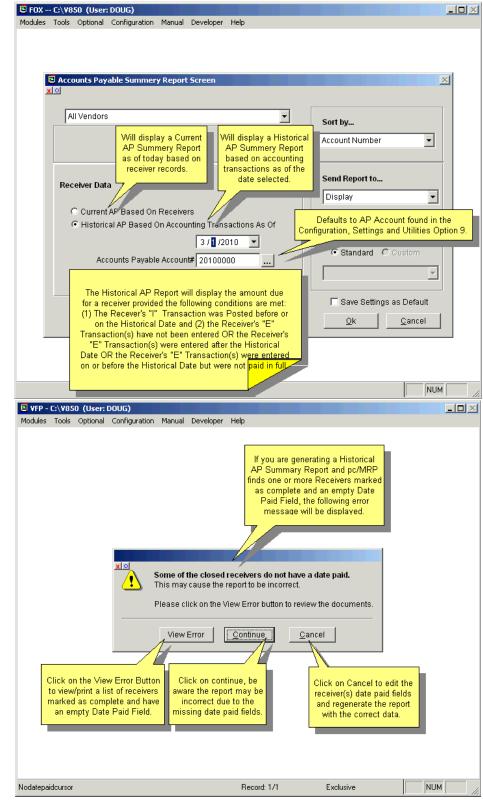
Additional accounts payable reports can be obtained by using the Receiving Report Module. The Receiving Report Module provides a variety of sorts and conditions for open and closed receivers. An open receiver is one that has not been paid and a closed receiver is one that has been paid ( the **Complete**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

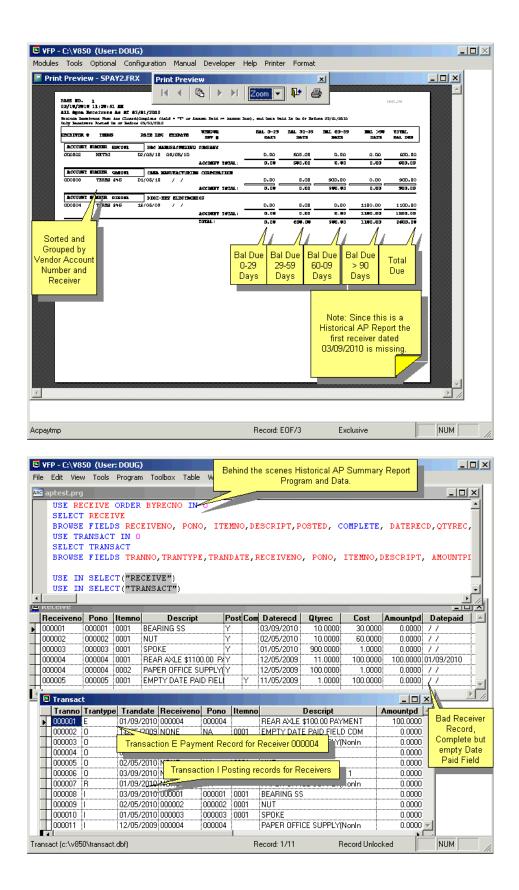
# 14.8.5 Print Summary Report

📕 VFP - C:\V850									
Modules Tools O	ptional	Configuration	Manual	Developer	Help	Form	at		
Inventory	•								
<u>B</u> OMs	•								
Stockroom	<u> </u>								
Purchase	•								
<u>R</u> eceive	•								
<u>W</u> ork Order	•								
<u>S</u> ales Order	•								
In <u>v</u> oice	•								
Shipment	•								To get a Current AP Summary
<u>A</u> ddress Book	•				_	_			Report for today or a Historical
Accounting	•	<u>G</u> L Transacti	ons			+			AP Summary Report, select Accounting, Accounts Payable,
Ewik		Accounts Pa	<u>y</u> able			•	New AP Vouche	er	and Print Summary Report.
E <u>x</u> it		<u>P</u> ay Bills / Pri	nt / Clear	checks		•	Edit / View Vou	cher	· · ·
		Accounts Re	cei <u>v</u> able			•	Print Voucher		
		Batch Post I	nvoices				Print <u>D</u> etail Rep	oort 🂋	
		Receive Cus	tomer Pay	yment			Print <u>S</u> ummary I	Report	
		Reports				T			
		Drill Down Re	eporting						
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		Debit Memos							AP Summary Report
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		Tax Code <u>E</u> r	•						y for each line item on
		Post Month (	. –						an open receiver
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Generates a summary	Accou	Audit <u>T</u> ransa	ictions						NUM
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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.

# 14.8.6 Select Bills for Payment

See section 14.14 Pay Bills Option, for instructions on paying bills.

# 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 🔹 🕨			
Sales Order			
In <u>v</u> oice			
S <u>h</u> ipment •			
Address Book	<u> </u>		
Accoun <u>t</u> ing +	GL Transactions		
Evik	Accounts Payable		
E <u>x</u> it	Pay Bills / Print / Clear checks	пг	
	Accounts Recei <u>v</u> able	New AR Voucher	
	Batch Post Invoices	Edit / View Voucher	
	Receive Customer Payment	Print <u>D</u> etail Report	
	Reports	Print Summary Report	
	Drill Down Reporting	Print Billing Statement	
	Income & Expense Grap <u>h</u>	Print Payment History	
	<u>C</u> redit Memos		
	Debit Memos		
	Chart of Accounts		
	Tax Code Entity		
	Post Month w/ Print <u>F</u> inancials	1	
	Enter / Edit Budget Figures		
Receivable vouchers & repo	Audit Transactions		NUM
necervable voucriers & repo	Audit 9. Updato Addroce Palancos		

# 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 Account 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

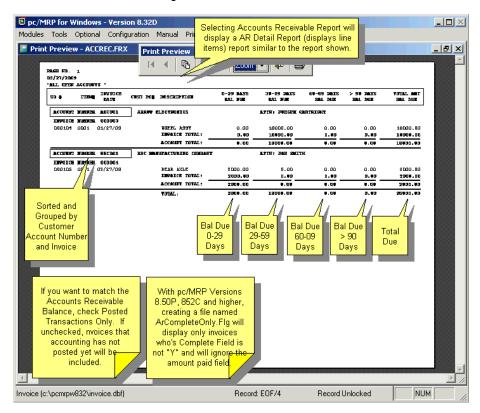
Selecting the accounts receivable report option will provide a consolidated printout of all accounts or a single account subtotaled on invoice and account numbers. The balance due amounts are totaled in the 0-29, 30-59, 60-90, and Over 90 days columns.

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).

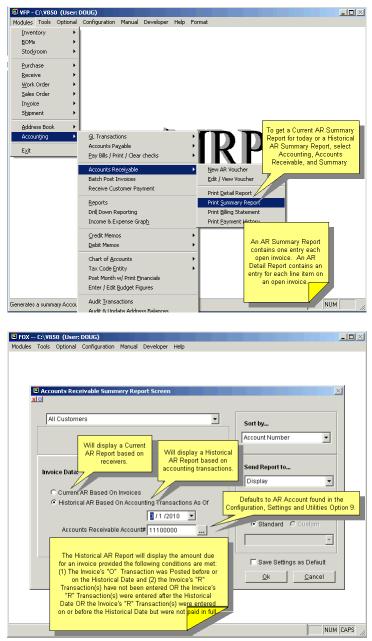
Since invoicing an item automatically creates an accounts receivable voucher, you may end up with some unwanted accounts receivable records. These records can be eliminated from showing up on the Accounts Receivable Report by using the Invoice Edit Module and entering a Y in the Complete field.

pc/MRP DOS and Windows Versions 6.43 and higher include 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

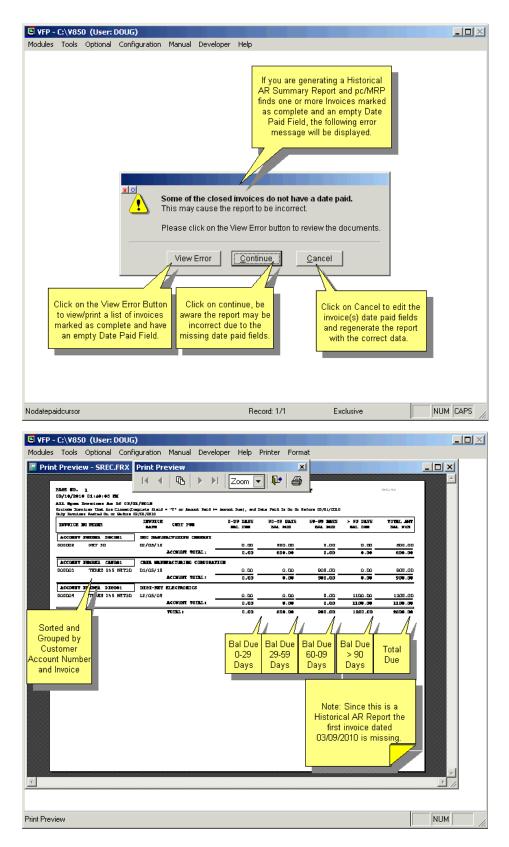


#### 14.9.3.2 Accounts Receivable Summary Reports



With pc/MRP Versions 8.50 and higher, an 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.

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# 14.9.4 Print/Display Billing Statements

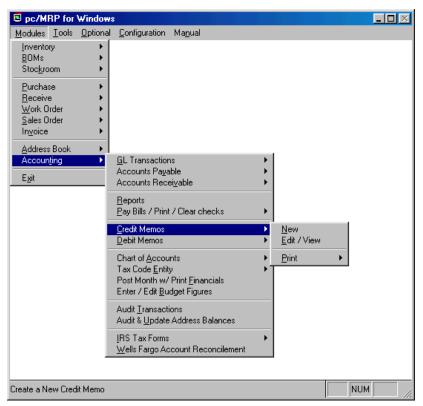
Allows you to print out a Billing Statement for every open account in accounts receivable. This report will zero out the balance due fields in the address book. A pop up screen will ask "Use Complete as a filter". If you answer "N", pc/MRP will not print out invoices where the amount paid equals the amount due. If you answer "Y", pc/MRP will not print out invoices with a "Y" in the invoice's complete field. The "Y" option is provided for including overpaid invoices. The balance due fields in the address book will then be recalculated. A pop up screen will ask if you want a billing statement for All companies or a Single Company. The next pop up screen will ask to include all open invoices or all open invoices for companies show an amount due in the address file. A pop up screen will again ask "Use Complete as a filter". Enter "Y" if you entered "Y" the first time or "N" if you entered "N" the first time.

#### 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 (pc/MRP versions 8.23 and higher)

To record receiving a customer payment, select Modules, Accounting, and Receive Customer Payment.



# 14.10 Credit Memo Module

# 14.10.1 New (Enter A Credit Memo – pc/MRP versions to 8.31)

A credit memo is issued to a customer to cover returned goods, pricing errors, freight charges, etc. Credit memos can be created from the accounting menu (credit memo, new) and or the sales menu (new, sales return). Credit memos will appear in both your invoice and accounts receivable reports. You can enter multiple credit memos against an invoice.

pc/MRP will ask if you plan to restock the returned items.

If you answer **Yes**:

- Select the area to be restocked.
- Select the invoice and line item to be credited.
- pc/MRP will then create a credit memo for a negative quantity for the part number found in the line item credited.
- Click on the OK button to accept the credit memo.
- pc/MRP will then increase the onhand quantity of the part number.

If you answer No

- Select the invoice and line item to credit.
- Enter the dollar amount to credit the customer.
- pc/MRP will create a credit memo for that invoice with an "NA" part number, a quantity of -1, and the dollar amount.
- Click the OK button to accept the credit memo.

# 14.10.2 If you are using pc/MRP's Accounting Module

The following instructions assume you have entered an invoice and the O type accounting transaction for the invoice.

\*\* All transaction amounts and chart of accounts described below will automatically be displayed.

\*\* All invoices with credit memos and credit memos will automatically be closed when paid in full.

- 1. If the customer has not paid the invoice and calls requesting a credit on the invoice or the customer needs a check for a reduced document.
  - Enter a credit memo as described earlier for that invoice
  - Enter an **O** type accounting transaction to register the credit memo, <u>line item CM</u>
    - Debit 3010, business income, enter debit as a + amt
    - Credit 1110, accts receivable, enter credit as a + amt
    - o pc/MRP will automatically put a Y in the credit memo posted field
  - Reprint the invoice for reduced amount for you and your customers records
  - When the check arrives for the reduced amount, enter the R type transaction for invoice for the reduced amount.
    - Debit 1020, checking, for the reduced amount
    - Credit 1010, accts receivable, for the reduced amount
    - o pc/MRP will distribute the amount received to each line item until it runs out.
    - If the amount paid equals the amount due, pc/MRP will automatically put a Y in each line item and credit memo(s) complete field.
    - pc/MRP will display the correct amount due and the correct amount paid if you wish to reprint invoices or use the amount paid equals the amount due as a criteria to determine open and closed invoices.
- 2. If the customer has paid the invoice (the  $\mathbf{R}$  type payment for the invoice has been entered into the general ledger) and calls requesting a credit on an existing open invoice.
  - Enter a credit memo as described earlier for the open invoice. Do not restock.
  - Enter an **O** type accounting transaction to register the credit memo, <u>line item CM</u>
    - Debit 3010, business income, enter debit as a + amt
    - Credit 1110, accts receivable, enter credit as a + amt
    - o pc/MRP will automatically put a Y in the credit memo posted field
  - Reprint the open invoice for reduced amount for you and your customers records
  - When the check arrives for the reduced amount, enter the R type transaction for invoice for the reduced amount.
    - o Debit 1020, checking, for the reduced amount
    - Credit 1010, accts receivable, for the reduced amount
    - o pc/MRP will distribute the amount received to each line item until it runs out.
    - If the amount paid equals the amount due, pc/MRP will automatically put a Y in each line item and credit memo(s) complete field.
    - pc/MRP will display the correct amount due and the correct amount paid if you wish to reprint invoices or use the amount paid equals the amount due as a criteria to determine open and closed invoices.
  - If you wish to restock items from original invoice, enter a stock room adjusting transaction (Modules, Stockroom, New, Adjusting Transaction)

3. If the customer has paid the invoice (the  $\mathbf{R}$  type payment for the invoice has been entered into the general ledger) and the customer now requests a credit in the form of a check to be paid at a later date.

- Enter a credit memo as described earlier.
- Enter an **O** type accounting transaction to register the credit memo, <u>line item CM</u>
  - Debit 3010, business income, enter credit as a + amt
  - Credit 1110, accts receivable, enter credit as a + amt
  - o pc/MRP will automatically put a Y in the credit memo posted field.
- When you issue a check for the credit memo amt, enter an **R** type transaction for the credit memo, <u>line item CM</u> (do not use pay bills).
  - Enter a negative amount for the credit amount received
  - Debit 1110, accts receivable, enter credit as a + amt
  - Credit 1020, checking, enter credit as a + amt
  - o Answer Yes when asked to print the check
  - o pc/MRP will automatically put a Y in the credit memo complete field
  - pc/MRP will automatically enter the credit memo amount paid field as a negative amount paid.

4. If the customer has paid the invoice (the  $\mathbf{R}$  type payment for the invoice has been entered into the general ledger) and the customer now requests a credit to be used on a future invoice.

• Enter a credit memo against the next invoice to be created for this customer as described in example 14.10.1. This will allow will allow you to enter just one O type transaction for the invoice (which will contain the credit memo) and one R type transaction for the invoice when you are paid.

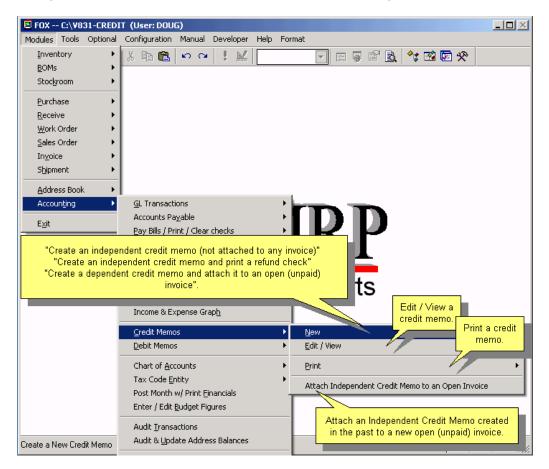
# 14.10.3 How pc/MRP Closes credit memos and invoices with credit memos automatically when an R type transaction is entered for them.

- If an invoice line item is selected:
  - The program will add up the amount due, *mamountdu* (cost, freight, tax, discount) for all line items. The credit memo line item will be negative and is included the total amount due.
  - The amount paid is added to the amount paid to date.
  - The total amount paid is distributed to the amount paid field starting at the first line item until the amount paid is expended.
  - If the amount paid equals the total amount due, *mamountrc* >= *mamountdu*, pc/MRP closes the invoice and attached credit memo by putting a Y in the complete field of each line item and credit memo.
  - Under these circumstances
    - The complete field for all the line items and the credit memo will contain a Y.
    - The amount paid field for the last line item will not equal the amount due.
    - The amount paid field for the credit memo will equal \$.00
    - The total amount paid will equal the total amount due for the entire invoice and credit memo.
- If a credit memo line item is selected.
  - If any of the invoice line items are not complete, pc/MRP will ask you to select one of the invoice's line items.

- If all of the invoice line items are complete:
  - All credit memo line items will be closed by placing a Y in their complete fields.
  - All credit memo line items will contain a negative amount paid.
  - The total amount due will equal the total amount paid for the entire invoice and credit memo.
  - pc/MRP will prompt you to print a check for the total amount of the credit memo(s).

#### 14.10.4 Credit Memo Module Overview (pc/MRP version s 832A and above)

Users with the correct rights can enter credit memos from the Sales Order New Screen and from the Accounting Credit Memo Menu shown below (creditmemoverview.gif)



pc/MRP's new Credit Memo Module was introduced in pc/MRP Version 8.32A allowing 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.

With the Menu New Option, users can;

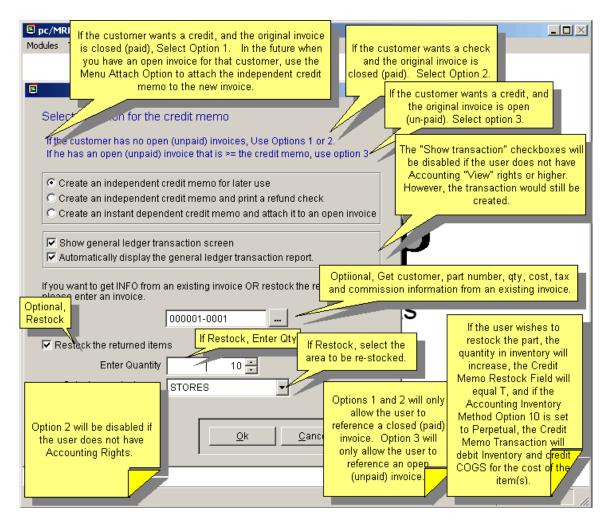
Create an independent credit memo (not attached to any invoice).

Create an independent credit memo and print out a refund check.

Create a dependent credit memo and attach it to an open (unpaid) invoice.

With the Menu Attach Option users can;

Attach an Independent Credit Memo created with option 1 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.



creditmemooverview2.gif

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 (8.40T and higher, 843H and higher).

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.

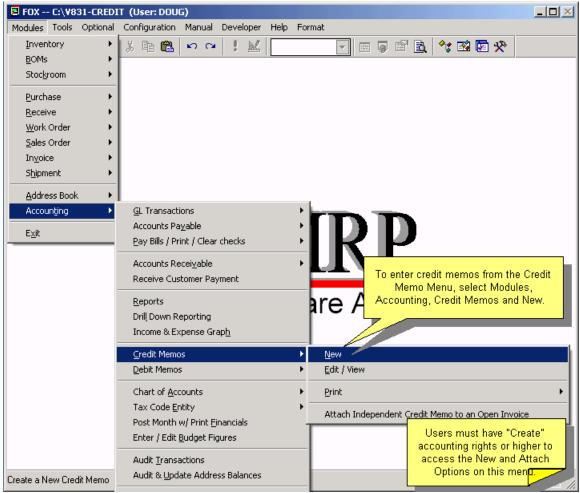
**NOTE:** If the item is re-stocked is a serialized item:

- 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.

# 14.10.5 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 as shown in the screen below.



creditmemomenu.gif

The user must have "Create" accounting rights or higher to access the New and Attach Options on this menu.

#### 14.10.6 Entering a Credit Memo from the Sales Screen:

To enter credit memos from the Sales Screen, select Modules, Sales, New, and Sales Return as shown on the screen below.

VFP - C:\V832 (User: DOUG) Modules Tools Optional Configuration Manual Deve	eloper Hel	p		
xlol Module. Sale Type Sales, N	er from th select Mo New and c ales Return 0 3 F 0 4 E 0 5 II	e Sale odules, lick on n	C 7 QC HOLD C 8 RMA C 9 STAGING C 10 SCRAP C 11 RESERVED	
Terms Ship Via	•	0	pe Taxable Resale Food Product	
FOB	•		Service U.S. Government Out of State Exempt	The Sales Return Radio Button will only be enabled, if the user has create rights or higher in sales and Option 95 is
<u>S</u> ave Settings as Default		<u>0</u> k	<u>C</u> ancel	sales and Option 35 is set to allow credit memos to be created from the sales module.

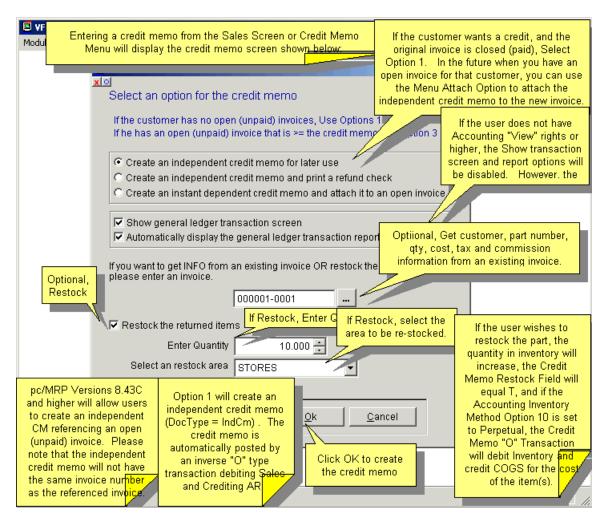
creditmemosalesscreen.gif

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 was added to pc/MRP Version 8.32A Configuration, Settings and Utilities Screen to give 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 "Allow" for users updating to version 8.32A or higher from a version lower than 8.32. Option 95 will initially default to "Not Allow" for new copies of pc/MRP.

# 14.10.7 Option 1 Create an independent credit memo for later use menu

Entering a credit memo from the Sales Screen or Credit Memo Menu will display the credit memo screen shown below:



# Creditmemooption1.gif

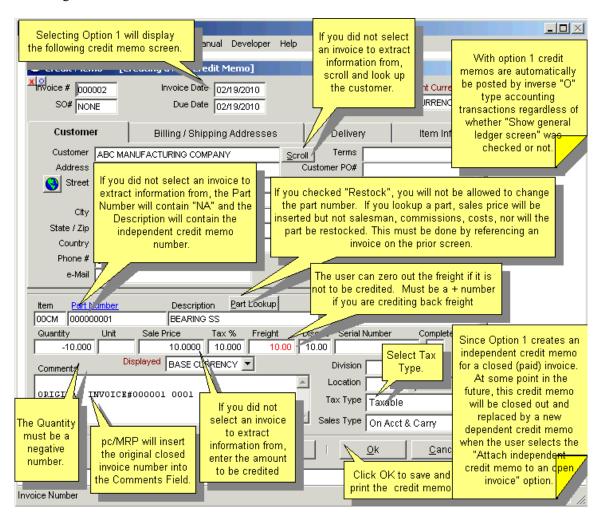
If the customer wants a credit, and the original invoice is closed (paid), Select Option 1, "Create an independent credit memo for use at a later date". In the future when you have an open invoice for that customer, you can use the Menu Attach Option to attach the independent credit memo to the new invoice.

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).

#### 14.10.7.1 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.

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.

#### 14.10.7.2 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.

Image: WFP - C:\V847 (User: DOUG         Modules Tools Optional Conf         Image: Conference of Con
Transaction # 000003 Uppe 0 Transaction # 000003 Entered By DOUD Description BEARING SS Customer PO# AccountNo ABC001 Debits Business
Cust / Vend ABC MANUFACTURING COMPANY Income Credits AR Check # Invoice # 000002 Sale # NONE Debit: 209.00 Credit: 209.00 Comments
Extended Sale Price       -100.00         Terms Discount       10.00         Tax for Line Item       -9.00         Freight for Line Item       -100.00         Total with Tax & Freight       -109.00         If "Restock the returned items was checked and         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. Basically this is the inverse of a normal O (Post Invoice) Type Transaction. If no invoice is used as a template, pc/MRP would debit Income and credit AR. Press Save to save the transaction and print out the credit memo.

creditmemootypetransaction.gif

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>

## 14.10.7.3 Option 1 Print/Display Independent Credit Memo

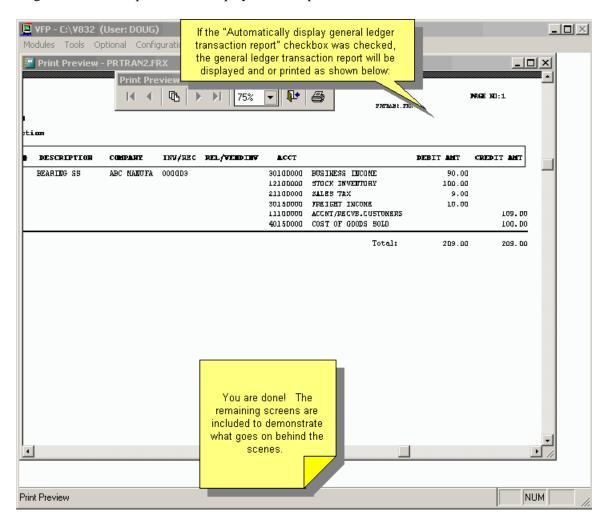
When a user creates a credit memo, pc/MRP offers to print/display and or email the credit memo as shown in the screen below:

E VFP - C:\V832 (1 Modules Tools Op F Print Print Prev ECH IVE TE: AIN STREET AND , CA 92020 - : 408-226-7321 408-247-8610	tional Con view When a user cre pc/MRP offers to email the credit the scr 4406	5	or		2/09/2009 30-112-1111	
ANUFACTURING C JOE SMITH OUTH MAIN STRE IEW, CA 88888			ATTN: JO 111 SOUT	FACTURING E SMITH H MAIN STR 7, CR 88888 ACCT: J	REET B	
PARTNO	QTYORD	Тузнір	BKORD	UNIT	PRICE	TOT AL PRICE
000000001 GINAL INVOICE#	BEARING SS O	-10			10.00	-100.00
.nvoice boiler	plate			DIS	TOTAL: COUNT: TAX: EIGHT: TOTAL:	-100.00 10.00 -9.00 -10.00
Tempinv (c:\docume~	1\doug\locals~1\temp\52374292.	dbf) Record	: EOF/1	Exclusiv	/e	

creditmemoprint.gif

#### 14.10.7.4 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:



creditmemootransactionreport.gif

## 14.10.7.5 Option 1 Behind the scenes credit memos

Behind the scenes, pc/MRP created a new posted independent (has its' own invoice number) credit memo.

	- <b>C:\V832 (</b> : Tools Op		Behind	the scenes, d independen number) c	it (has if	ts'own invo	new bice					
	Invoice	-		arah (Fastast			1					
		Ind	exea Sea	arch (Fastest	)				Queried Sear	rch		
		ettings Code Priginal Cl Invoice	Doc osed	in S Indeper Memo items. F	ndent C returnin Restock pe = Inc	g 10 = T, at	Inclu Both		and Closed	Y		
		F ules#	litem #Pa	art IV 🖉 🦯 ar		Acct#	Post	Cmpl	Description		<u> </u>	
	000001	000103	0001 00	00,00 .01		ABC001	Y	Y	BEARING SS			
	▶000002	NONE	00CM 00	0000001	~	ABC001	Y		BEARING SS			
					Com	ments con	tain "Or	iginal I	nvoice#000001	0001		
	•								1			
	Action	C ⊻iew € <u>E</u> dit							<u>0</u> k	<u>C</u> anc	el	
Enter a si	tring to move	to a point v	vithin the li	st							NUM	

creditmemooption1behindcreditmemos.gif

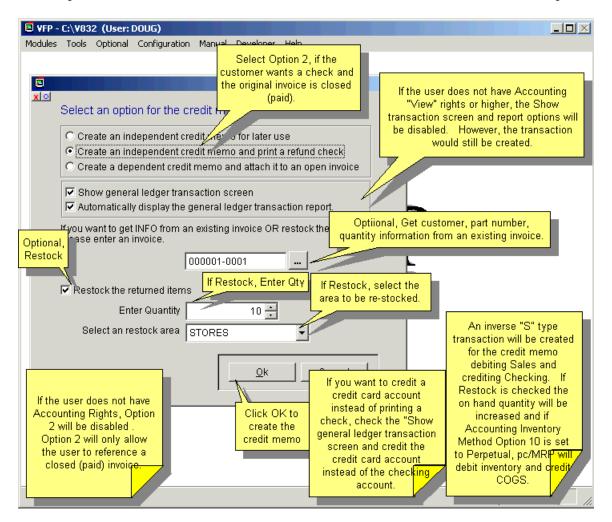
## 14.10.7.6 Option 1 Behind the scenes transactions

VFP - C:\V832 (Use Modules Td	er: DOUG)		eloper Help			<u> </u>
Behind th	he scenes, pc/l following transa					
Save Setti	ansaction for the al invoice 0000 ing AR, COGs a rediting Sales, Inventory.	ne D1, and R Tra origin: debiti	Insaction for the al invoice 000001 ng checking and crediting AR	Queried Se lude Inverse O transaction the independent c memo 000002, deb Sales, Inventory a crediting AR and C	earch on for redit piting and	
Transaction         Acct           000001         ABC           000002         ABC           000003         ABC	001 O 001 R	Chky _	Description BEARING SS BEARING SS BEARING SS	109.0000 109.0000 109.0000 90.0000	mt 1  90.0000 109.0000	
				<u>k</u>	Inventory and COO only be included transaction if t Accounting Inve Method Option 10 to Perpetual and F was checked	in the the ntory ) is set Restock
List of applicable records					N	JM M

Creditmemooption 1 behind transactions.gif

#### 14.10.8 Option 2 Create an independent credit memo and print a check menu

Select Option 2, if the customer received an order, wants a check and the invoice is closed (paid).



creditmemooption2.gif

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, check the "Show general ledger transaction screen and credit the credit card account instead of the checking account.

#### 14.10.8.1 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:

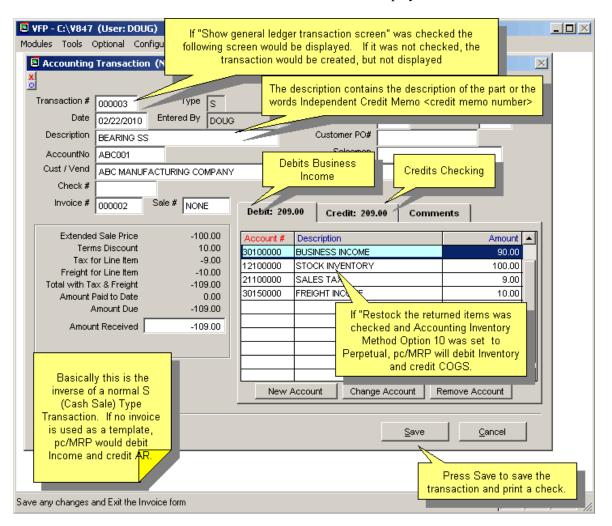
Selecting Opti	on 2 will display dit memo screen.	anual Developer Help	If you did not select		<u> </u>
	Let caulity a new . viii 102 Invoice D	e] ate 02/18/2009 pate 02/18/2009	information from, scroll and look up the customer.		
Custome	r Billing / S	hipping Addresses	Delivery	Item Info	
Customer Address	ABC MANUFACTURING C ATTN: JOE SMITH 111 SOUTH MAIN STREET		Customer PO#		
	RICHVIEW ex CA NU	you did not select an tract information from mber will contain "N/ Description will cont ependent credit mem	invoice to t, the Part A" and the ain the to number. The user can zero out	selected	ample the user d an invoice to formation from.
ttem <u>Part N</u> 00CM 00000 Quantity -10.000 Comments,	0001 BEARI Unit Sale Price	iption Part Lookup NG SS Tax % Freight 0 10.000 10.00 CUTRENCY V	Disc % Serial Number		
The Quantity must be a negative number.	pc/MRP will insert the original closed invoice number into the comments.	2. If you did not select an invoice to extract information from, enter the amount to be credited	4. Press	Cancel OK and print the and credit memo.	

### creditmemooption2screen.gif

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.

#### 14.10.8.2 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.



creditmemooption2transaction.gif

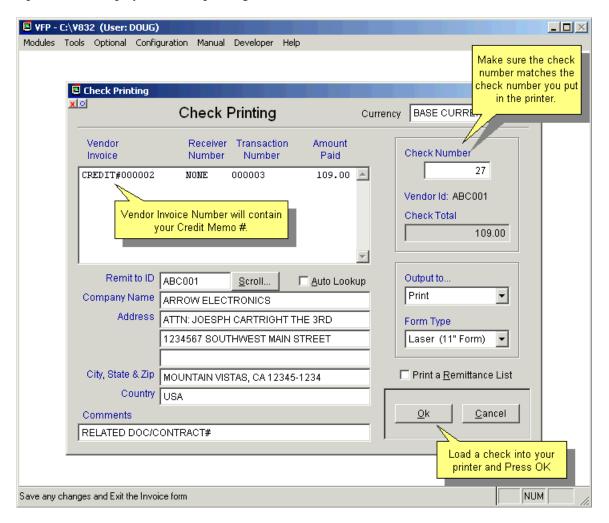
Basically this is the inverse of a normal S (Cash Sale) Type Transaction. If no invoice is used as a template, pc/MRP would debit Income and credit AR.

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>

#### 14.10.8.3 Option 2 Independent Credit Memo Print Check Screen

Option 2 will display the check printing screen shown below:

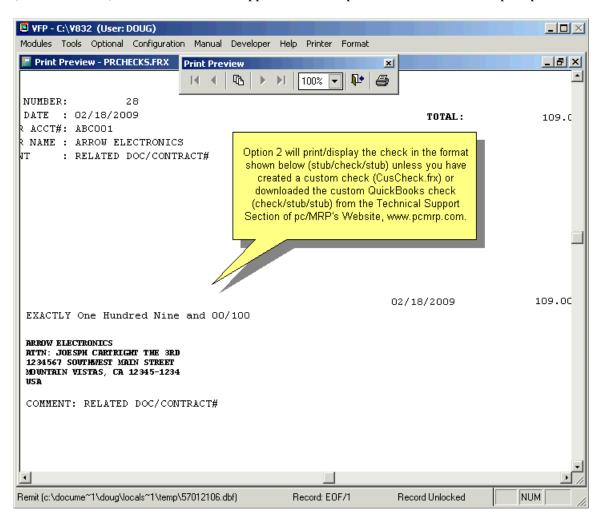


creditmemocheckscreen.gif

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.

#### 14.10.8.4 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 pc/MRP's Website, www.pcmrp.com.



creditmemocheckformat.gif

## 14.10.8.5 Option 2 Print Independent Credit Memo

Option 2 will offer to print, display or email the credit memo as shown below:

RAD TRON       PAGE ND. : 1         RAD TRON       COMPSING TROMBLAGIES         123 RAIN STREAT       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       12-1111         PHORE: 400-226-1321       PROTECT TROMPARY       12-1111         PROTE: JOE SAUTH III SUUTH NATH STREET RICHATER, CA ##88#       SHIP NOTE       PAGE NO. : 1         SHIP VIA:       TERM PAGENTH OC       OFFENDING OFFENDING       SHIP VIA: DEC MANUFECTURING CONPARY         SHIP VIA:       TERMS:       RCCT: RECK1         OCCN       000000001       BEARING SS 0       -10         OCCN       000000001       DEARING SS 0       -10         OCCN       000000001       DEARING SS 0       -10         DISCOURT:       SHE POTAL:       -180.00         DISCOURT:       10.00       -100.00         DELOCENTIAL HEVOLCE/0000001 0001       TERMS:       SHE POTAL:       -100.00         DISCOURT:       10.00       -100.00       TERMS:       -10.00         DISCOURT:       SHE POTAL:       -100.00       TERMS:       -3.00         OCCN       000000001 0001       DISCOURT:       10.00       -100.00         DISCOURT:       10.00       -100.00       TERE:       <	
FRX:       444-247-8510         ABC KARNUFACTURING CONFARM ATTE: JOJE SKITH 111 SUUTH NALM STREET RICKVIEW, CA ###88# USA       SHIF TO MOR       JOCK MANUFACTURING COMPANY ATTE: JOE SMITH MOR         SHIP VIA:       SHIP VIA:       JOCK SHIP ATTE: JOE SAUTH SUCKVIEW, CA ###88# USA       JOCK SUCKVIEW, CA ###88# USA         SHIP VIA:       TERMS:       RCCT: FBC401         THEM       PARTNO       QTYORD       QTYSHOP         OOCN       000000001       BEARLING SS 0       -10         OCCN       000000001       DEARLING SS 0       -10         OCCN       000000001       DOOL         INFORMER       SHE FOTAL:       -140.08         DISCOMMIC 10001       TATE:       -9.09         INFORCE HOLLER plats       TATE:       -10.00	
ITEM     PARTNO     QTYORD     QTYORD     QTYORD     HEDRD     LEIT?     PRICE       0000     000000001     BEARLING SS 0     -10     10.00     -100.00       ORIGINAL INVOLVE#000001 0001	
DOCK         DOCOL         DEARING SS         D	
SUB 10TEL:         -140.00           DISCOUNT:         10.00           invoice boiler plate         TEX:         -9.00           EXELENT:         -10.00         -10.00           TOTAL:         -10.00         -10.00	
	•

creditmemooption2printcm.gif

## 14.10.8.6 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.

in En	.¥832 (User: I								_ 0
	eview - PRTR	Configuration AN2.FRX Print Preview		Developer He	elp Printer		General Ledg pc/MRP w following 3	2, if you chec ger Transactio ould Print/Dis S Type Credit saction Repol	n Screen" play the Memo
CHECK	DESCRIPTION	COMPANY	INV/REC	REL/VENDIN	V ACCT			DEBIT ANT	CREDIT ANT
	BEARING SS	ABC NABUFA	000002		301 0 D000 121 0 D000 211 0 D000 301 5 D000 102 0 D000 401 5 D000	STOCK I SALES T FREIGHT BANK CH		90.00 100.00 9.00 10.00	109.00 100.00
							Total:	209.00	203. DO
•				remaining included to what goes		e ite			
rancursor					Record: EOI	F/1	Exclusive		

creditmemooption2prcmtran.gif

## 14.10.8.7 Option 2 Behind the scenes credit memos

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.

Distance of the second s	- <b>C:\V832</b> ( s Tools O			tion Manua	l Developer	Help					J	<u> </u>
	E Invoice x o Save S	Database Ind	po m	sted and c emo (with	losed indep its' own invo	P created a n endent credit vice number)		de	Queried Sear	ch	<u> </u>	
	Go Go	Code Original ( Invoir	Closed	ocumen	Posted and ( Independen Memo retur items. Rest DocType =	t Credit ming 10 = ock = T, 11	, 		and Closed	•		
		ales #  000103		00000000		ACCL# ABC001	POSE	Y	Description BEARING SS			
	▶0000002			000000000		ABC001	Y	Y	BEARING SS			
					Com	ments contai	n "Oriț	<mark>jinal Ir</mark>	woice#000001	0001		
	   <b>↓</b>										•	
	Action	C ⊻iew ● <u>E</u> dit							<u>0</u> k	<u>C</u> anc	el	
List of ap	plicable reco	rds									NUM	11.

creditmemooption2behindcreditmemos.gif

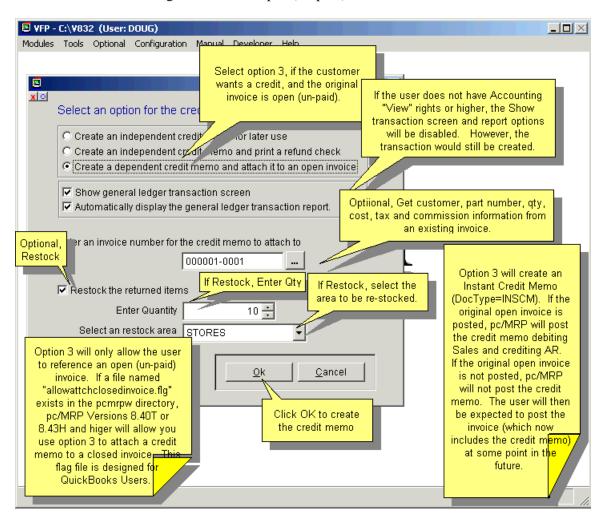
#### VFP - C:\V832 (User: DOUG) Modules To<u>ols Optional Configuration Manual Dev</u>eloper Help Behind the scenes, pc/MRP created GENE the following transactions Last H i 🖪 🖉 <u> – – ×</u> x ol Indexed Search (Fastest) Queried Search O transaction for the Sa original invoice 000001, Inverse S transaction for debiting AR, COGs and • C the independent credit R Transaction for the crediting Sales, memo 000002, debiting original invoice 000001 Inventory. Sales, Inventory and debiting checking and crediting Checking and COGS crediting AR П Gg ۰m. <sub>1</sub>Cnk Printea |Descrip/ \* Trakis .ction #Acct # Туре BEARY S BEARIN S SS 000001 ABC001 0 000002 ABC001 R BEÁRING SS 000003 ABC001 S Y • Inventory and COGS will only be included in the transaction if the <u>0</u>k Accounting Inventory Method Option 10 is set to Perpetual and Restock was checked. NUM Enter a string to move to a point within the list

#### 14.10.8.8 Option 2 Behind the scenes transactions

Creditmemooption2behindtransactions.gif

#### 14.10.9 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).

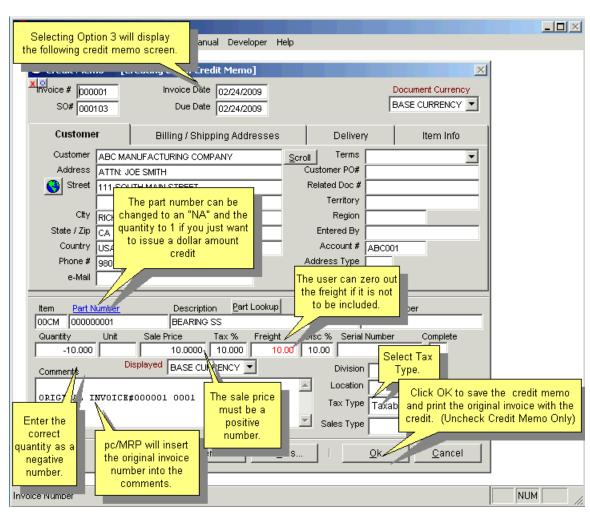


Option 3 will only allow the user to reference an open (un-paid) invoice.

**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 (8.40T and higher, 843H and higher).

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.



## 14.10.9.1 Option 3 Credit memo screen

creditmemooption3screen.gif

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 number will not be restocked.

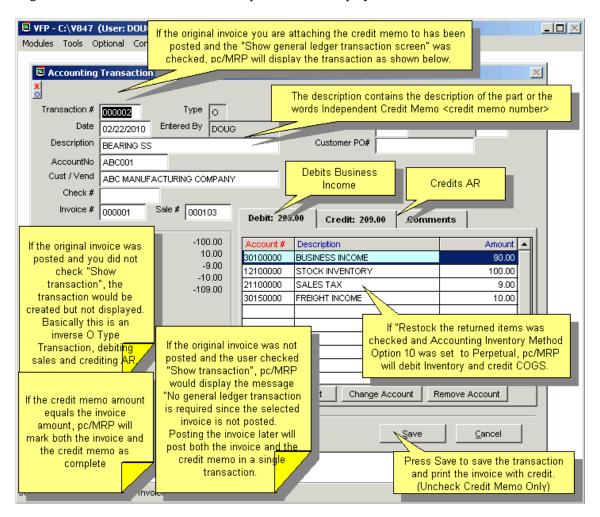
If "Restock the returned items" is checked the part number will be restocked.

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.

#### 14.10.9.2 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 2nd 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.

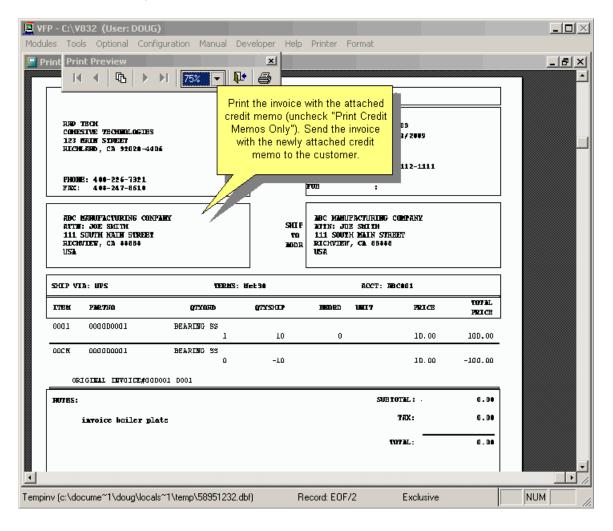
If the credit memo amount equals the invoice amount, pc/MRP will mark both the invoice and the credit memo as complete.

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.

#### 14.10.9.3 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.



## 14.10.9.4 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.

VFP - C:	\¥832 (User: I	DOUG)						
	fools Optional review - PRTR		Manual (	Developer He	lp Printer 2	lf you checked "Dis Ledger Transaction S would Print/Display Credit Memo Transa	creen" pc/MR the following	P
02:42 PM Transact	im							
CHECK	DESCRIPTION	COMPANY	INV/REC	REL/VEIDIN	7 АССТ		DEBIT ANT	CREDIT ANT
	BEARIDG SS	ABC NAMUFA	OOOODL			FUSINESS INCOME STOCK INVENTORY SLIES TAX FREIGHT INCOME ACCNT/RECVE.CUSTOMERS COST OF GDDDS SOLD	90.00 100.00 9.00 10.00	103.00 100.00
						Total:	209.00	203. DO
4				remaining included to what goes o		te 🛛		J
rancursor					Record: EOF	7/1 Exclusive		

creditmemooption3prtran.gif

#### 14.10.9.5 Option 3 Behind the scenes credit memos

Behind the scenes, pc/MRP created a new dependent (same invoice number) credit memo.

VFP - C:\V832 (User: DOUG)	
Modules Tools Optional Config new dependent (same invoice credit memo.invoice) credit m	number)
Invoice Database	
x ioi Indexoa Search (Fastest)	Queried Search
Save Settings Sort Or <u>d</u> er Co Selected open (unpaid) invoice Go	
Invoice # Sales # Item #Part Number Acct #	Post Cmpl Description
000001 000103 0001 000000001 ABC00	
O00001 000103 00CM 000000001 ABC00     AB	If the credit is equal to the amount due on the selected invoice, pc/MRP will close both the selected
Action View Edit Action View Edit Action View Edit Selected invoice was not po pc/MRP will not post the c memo. Later on when the posts the invoice, pc/MRP w both the invoice and the c memo with one "O" typ transaction.	redit user redit

creditmemooption3behindcreditmemos.gif

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.

#### 14.10.9.6 Option 3 Behind the scenes transactions

Behind the scenes, pc/MRP created the following transactions.

Modules Tools Op CENERAL L Last Transa       Behind the scenes, pc/MRP created the following transactions.         Hi       Accounti         Save Settings       Sort Orger Document         Save Settings       Sort Orger Document         Begin Scro       Document         Go Top Go Top       Begin Scro         Go Top Go Bottom       Begin Scro         Transaction #Acct #       Typ         Chk Printed       Description         000001       ABC001         ABC001       BEARING SS         000002       ABC001	📴 VFP - C:\V832 (User: DOUG)		
Save Settings       Sort Order         Color Code       Documen         Go Top       Begin Scro         Go Bottom       Color Code         Transaction #Acct #       Typ         Chk Printed       Description	GENERAL L Last Transa Hi Accounti	cenes, pc/MRP ne following	
Go Iop     Begin Scrd     COGs and Credit inventory.     restocked the item, pc/MRP will also debit Inventory and credit COGs.       Go Bottom     Transaction #Acct #     Type     Chk Printed     Description       000001     ABC001     0     BEARING SS	Save Settings Sort	t Or <u>d</u> er invoice debiting Al cumen perpetual pc/MRF	action posted the AR and crediting punting is set to RP will also debit
	Go <u>Top</u> Go <u>B</u> ottom	Typ Chk Printed	Description
	▶ 000002 ABC001		
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.	memo economication of the interview of t	quals the amount nvoice, pc/MRP omatically close invoice and credit y putting a "Y" in	<u>Ok</u> <u>Cancel</u>

Creditmemooption3behindtransactions.gif

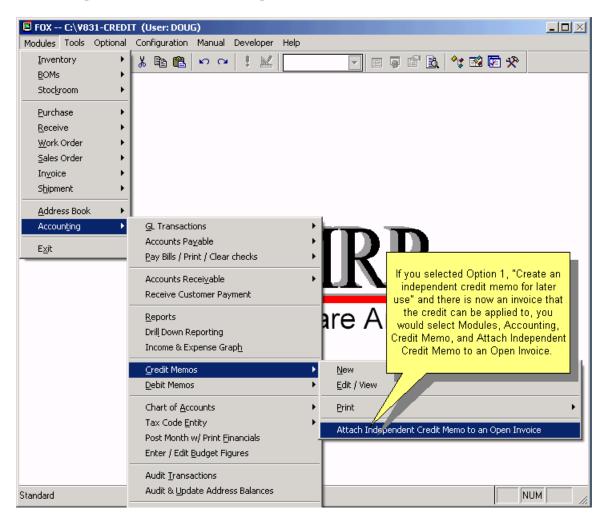
The first O transaction posted the invoice debiting AR and crediting sales. If accounting is set to perpetual pc/MRP will also debit COGs and Credit inventory.

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.

#### 14.10.10 Menu Attach Option, 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.



creditmemoattachmenu.gif

#### 14.10.10.1 Menu Attach Option, 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.

VFP - C:\V832 (User: DOUG)				
Modules Tools Optional Configuratio		pc/MRP will allow y invoices. pc/M	you to select u RP will then di	attach a credit memo to. npaid, posted or unposted splay all open, posted s) for that customer.
Attach Independent Credit Men X 0	io(s) to an Open		-	
Invoice# 000003 Account# ABC001	<u>S</u> croli	Invoice Amt Amount Paid	20000.0	credit memo(s).
New Amount Due 19940.5	000	Amount Due	20000.0	When you press OK, pc/MRP will
Available Credits		Credit Memo(s)		create one new Dependent Credit Memo with the invoice number (attaching itself to the invoi <mark>ce).</mark>
Pay         Date         Invoice #         Itemno           ✓         02/26/20         000002         00CM	Invoice Amt 59.5	Amt to Apply 50 59.50	Credit Bal.	
2. Check the credit memo(s wish to attach to the above in pc/MRP will display all o (Complete # Y and AmountPd>=AmountDu independent credit memos customer listed on the above	ivoice.	4. Press O the credit mo invoice. Bu enabled aft	K to attach emo(s) to the utton will be er a positive r is selected. <u>C</u> ancel	Creates new "R" Transaction(s) for every CM selected to adjust out the amount paid on the original CMs, Debiting AR and Crediting Sales. Increase the amount paid on the original CM(s). If the Amount Paid >= Amount Due, the original credit memo is closed (Complete
				If the invoicre is Posted, pc/MRP will create one new "O" type transaction for the new credit memo. Debiting Sales <u>and</u>
Availereursor (c:\v832\availereursor.dbf)		Record: 1/1	E×	Crediting AR

creditmemoattach.gif

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

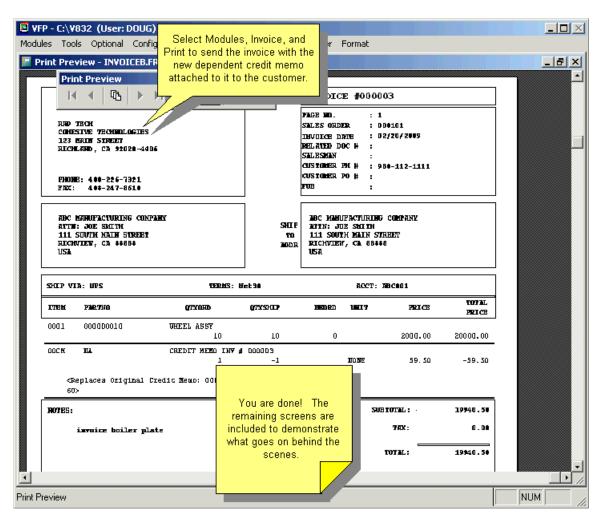
If the amount = the amount due it closes the original independent credit memo Create a new dependent credit memo to replace the original independent credit memo If the invoice was posted

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

#### 14.10.10.2 Menu Attach Option, 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.

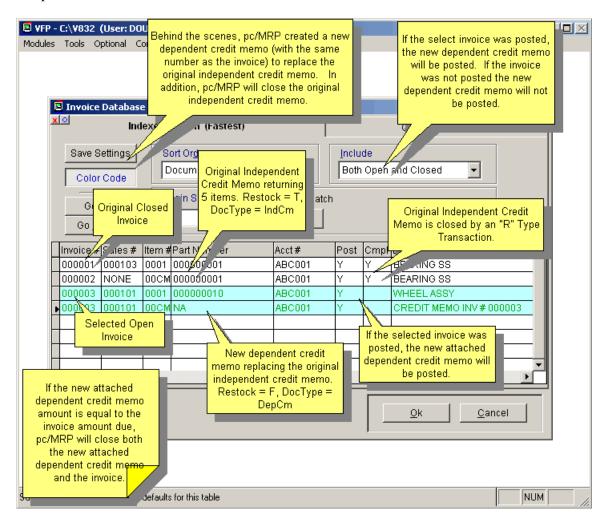


#### creditmemooption4printinv.gif

You are finished! The remaining screens are included to demonstrate what goes on behind the scenes.

#### 14.10.10.3 Menu Attach Option, Behind the scenes credit memos

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.



creditmemooption4behindcreditmemos.gif

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.

#### 14.10.10.4 Menu Attach Option, Behind the scenes transactions

Behind the scenes, pc/MRP created the following transactions:

VFP - C:\ Modules To Behi	nd the scene the following			elp		
	O transactio original invoic lebiting AR, ( crediting 3 Invento	n for the e 000001 COGs an Sales,		ng and R Sales	Queried Search O transaction for ependent credit 000002, debiting , Inventory and g AR and COGS	O transaction for the newly selected invoice 000003 debiting AR, COGS and crediting
000002 000003 000004 000005	Acct # ABC001 ABC001 ABC001 ABC001 ABC001 ABC001	Type Cl O C R C O C O C R C R C	hk F Description BEARING S BEARING S BEARING S WHEEL AS CREDIT ME BEARING S	35 35 35 87 EMQ INV # 000003	109.0000 109.0000 45.0000 20000.0000 59.5000 59.5000	20000.0000 59.5000 59.5000 59.5000
The fifth tran which posts dependent cred only create selected invo poster	the new lit memo is d if the pice was	was indep 0000	/ R type transaction hing out the original pendent credit memo D02 debiting AR and Crediting Sales	the new de memo OOO Sales and	transaction for pendent credit 1003 debiting crediting AR.	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.

creditmemooption4behindtransactions.gif

Only Transaction 3 has a comment 'O' Transaction for Independent Credit Memo: 000002 00CM??

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.

## 14.10.11 Editing, credit memo menu

To edit a credit memo, select Modules, Accounting, Credit Memos, and Edit as shown in the screen below.

■ VFP - C:\V832 (User:			
Modules     Tools     Optional       Inventory     Image: Stockgroom     Image: Stockgroom       Burchase     Image: Stockgroom     Image: Stockgroom       Burchase     Image: Stockgroom     Image: Stockgroom       Modules     Image: Stockgroom     Image: Stockgroom       Modules     Image: Stockgroom     Image: Stockgroom       Modules     Image: Stockgroom     Image: Stockgroom       Shipment     Image: Stockgroom     Image: Stockgroom       Address Book     Image: Stockgroom     Image: Stockgroom       Exit     Image: Stockgroom     Image: Stockgroom	Configuration Manual Developer	Help Fo	To edit a credit memo, select Modules, Accounting, Credit Memos, and Edit as shown in the screen below.
Edit an existing Credit Memo	Income & Expense Graph <u>Credit Memos</u> <u>Debit Memos</u> Chart of <u>A</u> ccounts Tax Code <u>Entity</u> Post Month w/ Print <u>E</u> inancials Enter / Edit <u>B</u> udget Figures Audit <u>T</u> ransactions Audit <u>T</u> ransactions	) ) ) )	New Edit / View Print Attach Independent Credit Memo to an Open Invoice NUM

creditmemoeditmenu.gif

## 14.10.11.1 Editing, credit memo screen

In the example shown below we have changed the quantity from -5 to -6  $\,$ 

VFP - C:\V832 Modules Tools C	(User: DOUG) Iptional Configuration Manual Developer Help	_ 🗆 🗵
Credit Men	no [Edit Mode]	
XOICE # 000 SO# NO	002 Invoice Date 02/26/2009 Document Currency	
Custome	er Billing / Shipping Addresses Delivery Item Info	
Customer Address OStreet	ABC MANUFACTURING COMPANY     Scroll     Terms       ATTN: JOE SMITH     Customer PO#       111 SOUTH MAIN STREET     Related Doc #	
City	Territory       RICHVIEW       Region	
State / Zip Country	CA 88888 Entered By Account # ABC001	
Phone #	980-112-1111 Address Type	
e-Mail Item Part N 00CM 00000		
Quantity	Juli Sale Price Tax % Freight Disc % Serial Number Complete	
Comments	10.0000         10.000         10.00         Y           Displayed         BASE CURRENCY         Division         Area	_
	INVOICE#000001 0001 by new credited memo: 000003 00CM Sales Type	
<u>D</u> elete	Logbook Boiler Plate La <u>b</u> els   <u>O</u> k <u>C</u> ancel	
City		

creditmemoeditscreen.gif

#### 14.10.11.2 Editing, credit memo adjusting quantity screen

If you want pc/MRP to adjust the inventory quantity check the "Adjust Inventory Qty" Checkbox and select the inventory area to adjust.

VFP - C:\V832 (User: Modules Tools Optional	DOUG) Configuration Manual Developer	· Help		
Credit Memo X O NVOICE # 000002 SO# NONE	Invoice Date 02/26/2009 Due Date 02/26/2009		Document Currency BASE CURRENCY	
Address ATTI		want pc/MRP to adjust the		
City RICH State / Zip CA Country USA Phone # 980- e-Mail		ity check the "Adjust Inver box and select the invento adjust. a Qty up by 1	pry area to pc/MRP ad memo's qu inventory qu	justs the credit jantity and the jantity. It does e original sales
ttem Part Number 00CM 000000001 Quantity Uni -6.000 Comments	Area To adjust	STORES  _ sed Cancel	adjust the inverse "O" transaction done by mar sales or	tity nor does it credit memo's type accounting This must be nually editing the rder and the
Amount \$60>	credited memo: 000003 0	Click on the Proceed Butt allow pc/MRP to make t inventory adjustments La <u>b</u> els	the s. better to credit memory better to cr credit m remaining manner th	If the original o did not restock rts, it would be reate a second nemo for the items. In this ne debits and uld be correct
Invoice (c:\v832\invoice.db	fj	Record: 2/4	Record L	

creditmemoadjustqtyscreen.gif

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 Memo Module

E pc/MRP for Windows -			A debit memo is issued
	Configuration Manual		to a vendor to cover
Inventory BOMs Stockroom	You can create a Debit Memo by s Modules, Purchase, and Return to		returned goods, pricing errors, freight charges, etc. It is basically a
Purchase • Receive •			negative receiver (a receiver with a neg <del>ative</del> quantity).
Work Order 🔹 🕨			
Sales Order 🔹 🕨			
In <u>v</u> oice + S <u>h</u> ipment +			Debit memos are basically receivers with a negative qty. You post
Address Book			the debit memo just as
Accounting	GL Transactions		you would a receiver.
	– Accounts Payable •	עעו	When you pay bills, you select the debit memos
E <u>x</u> it	Pay Bills / Print / Clear checks		along with the normal
	Accounts Recei <u>v</u> able Batch Post Invoices Receive Customer Payment	are Arts	receivers. pc/MRP will print out the check(s) for the difference
	<u>R</u> eports Drill Down Reporting Income & Expense Grap <u>h</u>		te a Debit Memo by selecting unting, Debit Memos, New.
	Credit Memos		
	Debit Memos	<u>N</u> ew	
	Chart of <u>A</u> ccounts	Edit / View	
	Tax Code Entity	Print Memo 🔹 🕨	
	Post Month w/ Print <u>F</u> inancials	Shipper 🕨	
	Enter / Edit <u>B</u> udget Figures		
Create a New Debit Memo (F	Audit <u>T</u> ransactions Audit & Undate Address Balances		

#### 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 negative receiver (a receiver with a negative quantity).

Selecting "New" allows you to enter a debit memo. pc/MRP will prompt you to select the area receiving the parts. Select the inventory area the parts are being issued from (usually stores). 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 (Requires version 6.80 or higher). 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.

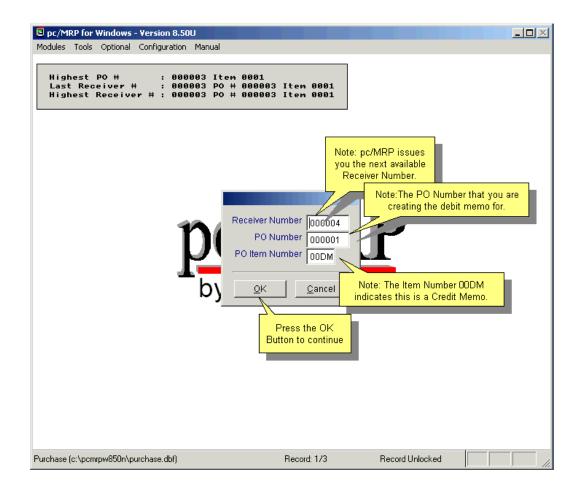
#### 14.11.1 The written method to process debit memos follows:

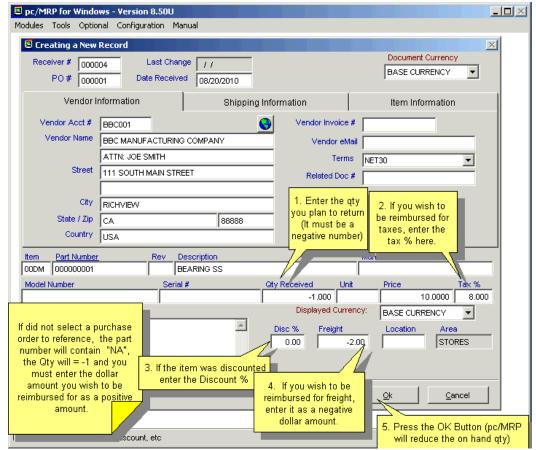
- Enter POs as you normally would
- Enter Receivers as you normally would
- Enter I type transaction for receivers as you normally would
  - Debits Inventory or purchases for the full amount
  - o Credits AP for the full amount
- Enter E or Paybills (multiple E) type transactions as you normally would
  - 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, Rturn 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)
- 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 Paybills (multiple E) type transactions and there are unpaid receiver(s) for this vendor whose total amount is greater than the debit memo, select the receiver(s) and the debit memo(s).
  - Credits Checking for the full amt of the receiver(s)
  - Debits AP for the full amt of the receiver(s)
  - Credits Checking for the amt of the debit memo(s)
  - Debits AP for the amt of the debit memo(s)
  - o pc/MRP will print a check for the difference.
- If the total amount due for the receivers exceeds the total amount due for the debit memos for a vendor, pc/MRP will automatically close the debit memos and receivers selected for that vendor as follows:
  - o It will put a Y in each line item and debit memo's complete field.
  - o 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.

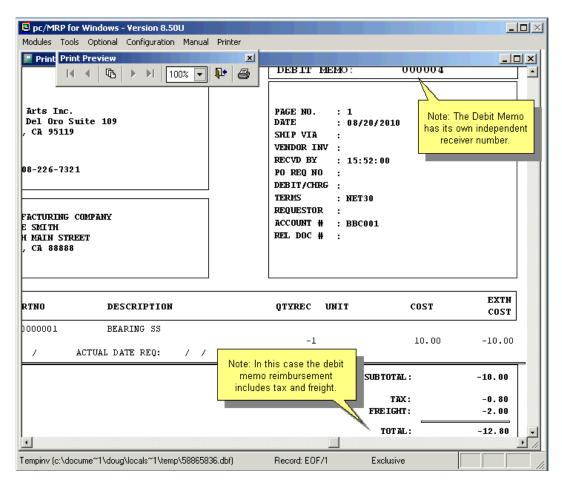
As you can see, the above method works well if there are unpaid receivers that you can take a credit (actually debit) against. If there are no open receivers, create an accounts receivable voucher for that vendor and create a check against the AR voucher.

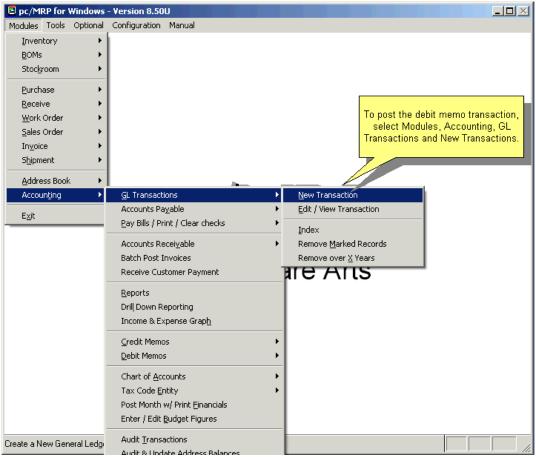
## 14.11.2 The illustrated method to process debit memos follows:

pc/MRP for Windows - Version Modules Tools Optional Configure						<u>_0×</u>
Highest PO # :	000003 Item 000003 PO #	000003 It		]		
Hignest Receiver # :	000003 PV #	000003 10	em 0001			
9	) Should this D	ebit Memo ref	oronco o enc	cific Purch:	ace Order?	
		ebit Mento rei	erence a spe			
	l	Yes	<u>N</u> o	]		
	~ , `		lick on Yes			
			cified PO ar			
Receive (c:\pcmrpw850n\receive.dbf)		Re	cord: 1/3	Re	ecord Unlocked	
🖲 pc/MRP for Windows - Version	8.500					_ <b>_ _</b> ×
Modules Tools Optional Configura	ation Manual					
Highest PO # : Last Receiver # : Highest Receiver # :	000003 Item 000003 PO # 000003 PO #	000003 It				
Purchase Order Dat	abase			<u> </u>		
Indexed	Search (Fastest	)		Queri	ed Search	
Save Settings	Sort Or <u>d</u> er			nclude	Select the PO a	ad Partnumber
Color Code	Document Nur	nber		9oth Open a	that is being return matter if the origin	ned. It does not
Go <u>T</u> op	Begin Scrolling		rest Match		received and pa	
Go <u>B</u> ottorn	000001	Sea	arc <u>h</u>		7/	
PO# Item #Part I		Acct#	Complete	Description		
▶000001 0001 0000 000002 0001 0000		BBC001 BBC001	Y	BEARING NUT	88	J
000003 0001 0000		MOU001	Y	REAR AXI	E	-
						-
			1		ess the Button	<b>~</b>
						<u>-</u>
				<u>o</u> k	<u>C</u> ancel	
ist of applicable records					[	



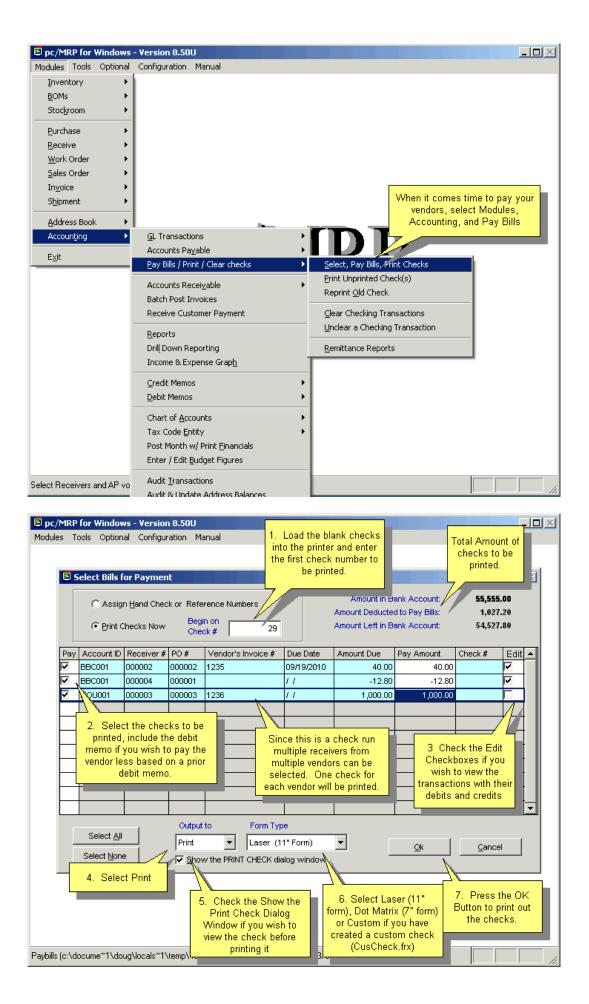






🗧 pc/MRP	for W	indows ·	Version 8.50	
Modules To	ols	Optional	Configuration	Manual
			New Ge	eneral Ledger Transaction
				Select the GL transaction type
			0000000	E Accounts payable or debit memo payment     W Register a payroll Check     A All other transactions - rent, taxes, etc

pc/MRP for Windows - V	ersion 8.50U	
Modules Tools Optional Co	nfiguration Manual	
	New General Ledger Transaction	
	Select the GL transaction type	
	O Register accounts receivable invoice invoice or o	gister accounts payable debit memo and click on he OK Button.



🖴 pc/MRP for Windows - Version 8.50U			
Modules Tools Optional Configuration Manual			
Accounting Transaction (New Transaction			×
Transaction # 000006 Type E	Related Doc#		
Date 08/22/2010 Entered By	Task	The first transaction Debit	
Description NUT	Vendor Invoice#	1235 for the amount fo the rec	
AccountNo BBC001		(\$40.00)	elvel
Cust / Vend BBC MANUFACTURING COMPANY			
Receiver # 000002 PO # 000002	Debit: 40.00 Credit: 40.00	Comments	
			_
Extended Sale Price 40.00 Terms Discount 0.00	Account # Description	Amount	
Tax for Line Item 0.00	20100000 ACCNTS/PAYAB.VE	NDORS 40.00	
Freight for Line Item 0.00			
Total with Tax & Freight 40.00 Amount Paid to Date 0.00			
Amount Due 40.00			
Amount Paid 40.00			
			-III
	New Account Change	e Account Remove Account	
BALANCED			
		Save Cancel	
			1
		Press Save to cont	tinue
) Debdetail (c:\pcmrpw850n\trandetail.dbf)	Record: 12/12	Record Unlocked	
	Hooda. IEITE		

# **14.12 Sales Deposits**

#### 14.12.1 Recommended way to process Sales Deposits if pc/MRPs accounting module is used (Autoaccounting 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, -\$10,000.00.

Create an invoice for the deposit:

1. Create an invoice for line item 002 for \$10,000.

Post the \$10,000.00 deposit invoice:

- 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.

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.

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 the second invoice, this time for line items 0001 & 0003:

- 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.

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.

#### 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 amt to the amt pd
- 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 amt to the amt pd
- 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".

# **14.13 Purchase Deposits**

### 14.13 When You Make a Deposit On A Purchase

If the purchase is to be delivered in the future:

Enter the purchase order and note the deposit amount in the comment field.

Enter an 'A' type accounting transaction

- Debit Vendor Deposits
- Credit 'Checking' for the deposit amount
- Enter the PO# in the Related Doc field

When the item is received, enter a receiver:

If auto accounting is on (Settings & Utilities, Option 8)

The receiver will automatically debit purchases and credit AP for the full amount.

If auto accounting if off

- Enter an 'I' type transactions, debiting purchases and crediting AP for the full amount.
- Enter an 'E' type transaction; debiting AP and crediting Vendor Deposits (instead of checking) for the deposit.

When you pay off the remainder of the bill enter another 'E' type transaction

- debiting AP
- crediting Checking

NOTE: Your accounting department may have to create the "Vendor Deposit" asset (AC) account.

# 14.14 Print or Clear Checks, Recording Hand Checks and Electronic Funds Payments

Inventory BOMs Stockgroom Burchase Beceive Work Order Sales Order Address Book Accounting Egit Egit Chart of Accounts Drill Down Reporting Eay Bills / Print / Clear checks Credit Memos Debt Memos
Wells Farma Account Reconcilement

#### 14.14 Overview

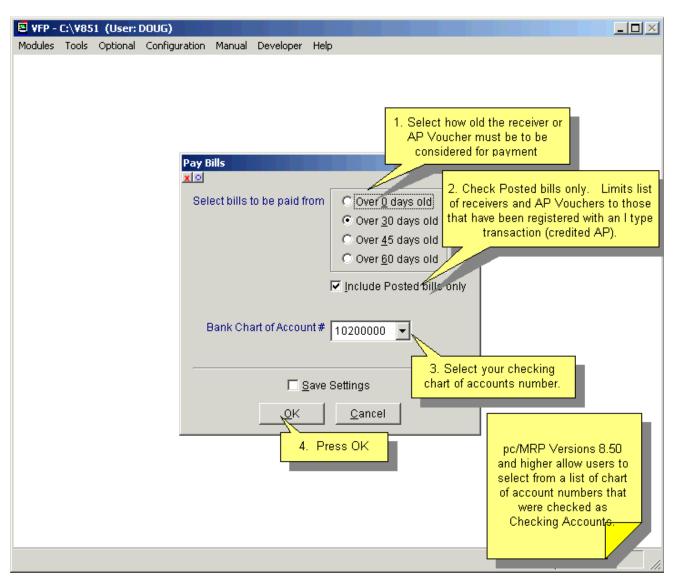
This module allows users to print, reprint, clear and unclear checks, hand checks, electronic funds payments and print remittance reports. Slideshow is at: <u>http://www.pcmrp.com/mrp101/paybillsmenu.htm</u>

#### 14.14.1.1 Step 1, Pay Bills, 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 print out checks, register hand checks and electronic funds payments select Modules, Accounting, Pay Bills/Print/Clear checks and Select Pay Bills Print Checks as shown on the screen above.

14.14.1.2 Step 2, Pay Bills, 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.

Enter the Bank Chart of Account # and press the OK Button.

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.

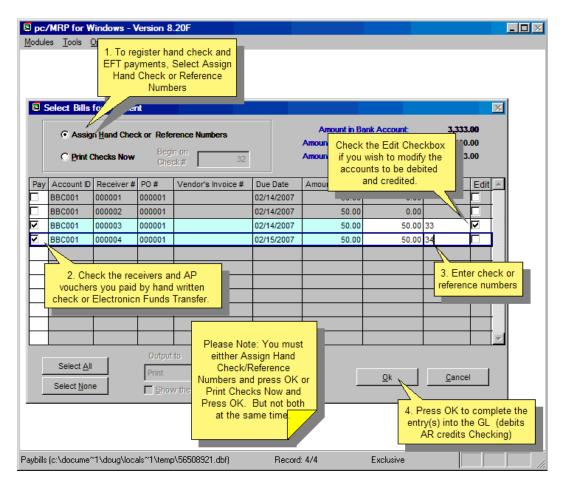
### 14.14.1.3 Step 3, Pay Bills, Select Receivers and AP Vouchers to be paid

To process (debit AP and credit Checking) receivers, AP vouchers and print checks, select Print Checks Now as shown below.

Modul	es Tools F t celect Bill	To Print C Print Check cransaction and credi	s Now. will deb Checki	Each it AR ng.	available ( Enter the n	t the next Check # or ext available number. Amount in B Amount Deducte Amount Left in B		your
Pay	Account ID	Receiver #	PO#	Vendor's Invoice #	Due Date	Amount Due	Pay Amount	Check # Edit
•	BBC001	000001	000001	12341	12/30/2009	58.66	58.66	
	BBC001	000002	000001	12342	12/30/2009	48.66	48.66	
	B ~ 901	000003	000001	12343	12/30/2009	48.66	0.00	
	vouchers	ick the rec you wish t endor will (	opay. N	lote that				atrix, or Custom
	Select <u>A</u> ll Select <u>N</u> one	•	Output Print	to Form Typ Laser (1 v the PRINT CHECK dia	1" Form)	]	<u>o</u> k	Cancel
Screi to p		ish to do s neck to ch ortrays.	o prior ange				\$10	The above test data onsisted of 5 bearings at 0.00 each, 10% discount, 8.125% tax and\$10.00 reight on first receiver. 0.00 freight on remaining receivers.

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

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.

With pc/MRP version 8.00K and higher, there is a "Show Print Check Dialog" checkbox which 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.

#### 14.14.1.4 Step 4, Pay Bills, 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.

### 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 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 transactionswhere the old check number was used.

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 - Ver Modules Tools Optional Confi		
Check Printing		
	Check Printing	Currency BASE CURRENCY
Vendor Invoice		nount Paid Check Number
	000001 000001	50.00 Vendor Id: BBC001 Check Total Check Total Su
Remit to ID Company Name	BBC001 Scroll Au BBC MANUFACTURING COMPANY	to Lookup Output to
Note: This method does not leave a record of the	ATTN: JOE SMITH 11 SOUTH MAIN STREET	Form Type Laser (11°Fd. (2) Select Print
old check number. To do so would require you to zero out the original transaction, edit the receiver's amount paid field and enter new e type transaction with a riew	ICHVIEW, CA 88888	Print a <u>R</u> emittance List
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.

#### 14.14.4 Clear 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>V8</b> 46 (	User: DOUG)								
Modules To	ools Op	otional Config	uration <mark>- Manu</mark>	ial Developer	Heln					
			ch	ecks (bank h	ecks tab to c las received c	heck). deposi	ect the Deposit tab to c ts (bank has received d			
	ACCOUNTS ON A	elect the Cheo	ks & Depr	chat have	cleared the Ba	ank				
	Checks Deposits									
		Cred	its to Che	ecking		mber of Credits: <b>2</b> Total of Credits: <b>155.</b> (	98			
	Clea	r Date	Transact#	Check#>>>	Account ID	Vendor Invoice #	Amount Paid 🔺			
		11/30/2009	MULTI	1253	BBC001	MULTI-INVOICES	107.32			
		12/02/2009		1254	BBC001	12343	48.66			
		12/02/2009	000014	1255	BBC001	12344	48.66			
		2. Clear th by checkin checks the recei	ng off the bank has		this example \$58.66 and \$ d for in a sing the venc	48.66 were le check to				
Consolchk (c:	\docume	e~1\doug\local	s~1\temp\370	100470.dbf)	Record: 2/	/3 Exclusiv	/e			

This option allows you to scroll and pick from all uncleared transactions (transactions whose cleared field does not equal "Y" and debits or credits the checking chart of account number). If the transaction database file is large, you must allow quite a bit of time for it to set the filter to display only transactions that debit or credit the checking account.

Once you are finished clearing your checks and deposits, you can run a Check Reconciliation Report to see the difference between pc/MRP's and the banks checking account balances. To display or print a Check Reconciliation report, select Modules, Accounting, Reports, and Check Reconciliation Report.

#### 14.14.5 Unclear a Checking Transactions

The Unclear Checks option will allow you to clear a check for a specified transaction number.

#### 14.14.6 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

#### 14.14.7 Ordering Laser Checks

pc/MRP's check writing module allows the option of printing either dot matrix checks or laser checks. We do not recommend using the Windows version of pc/MRP to print out Dot Matrix checks

The check-writing module can be preset in the Configuration Menu to use or not use pre-printed check numbers. Laser checks with your company's pre-printed address can be ordered through Rapid Forms (1-800-257-8354). Or Delux (1-800-328-0304)

When ordering checks specify: Company Address to be pre-printed Either pre-numbered checks or blank check numbers Rapid Forms Check Number LM 102CG-1 (Stub, Check, Stub) Delux Check Number 081013/6-89

#### 14.14.8 Ordering Check Envelopes

Compatible double window envelopes for either laser or Dot Matrix Checks can be ordered from Rapid Forms (1-800-257-8354). When ordering check envelopes specify: Check Envelope Number CHENV

#### 14.14.9 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.

#### 14.14.10 Check Numbers

When entering a PayBills 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 versions 7.92G and higher do not allow more than one person to print checks at the same time.

#### 14.14.11 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 Introduction

Often customers ask for term discounts such as 2% Net 10, meaning a 2% discount will be given provided the customer pays within 10 days. A trade discount is a discount given to a customer regardless of the payment terms. 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.

Since one is never sure if a customer is going to take advantage of the payment terms offered it requires 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 and takes 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 named cinvoice.frx. that would contain the remit to address in the note section of the custom invoice.
- 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 Versions 7.50A and higher have 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 by selecting 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

I.R.S. Form 1099MISC G	ieneration
Recipient  All Adresses  Single  Scroll	Paver's Federal ID Threshold \$ 600.00 Paver's State ID Tax Year 2002 -
Form Generation  Copy A - I.R.S.  Copy B - Recipient  Copy C - Payer  Copy D - State	Send Output to:     Output Type:       Display <ul> <li>Standard</li> <li>Custom</li> </ul> Start on Label: <ul> <li>No Custom Forms</li> <li>Display</li> </ul> 1 <ul> <li>Dk</li> <li>Cancel</li> </ul>

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 the "primary" 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 #	Total Number of 1 🕂 1099 Forms
C Social Security	Total Amount of 1.00 🛨
✓ Printed Address      ✓ Final F      Our Contact      Contact Phone () -      Contact Fax () -      Contact E-Mail	Return Send Output to: Display Output Type: Standard C Custom No Custom Form
	<u></u> <u></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, Stables....) 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.

#### 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. Also, make sure the checking account used to pay the 1099 in question is set as the primary checking account in option 9 in Settings and Utilities.

# 14.18 Wells Fargo Account Reconcilement (Positive Pay) Option

#### 14.18.1 Wells Fargo Account Reconcilement Overview

pc/MRP Versions 7.54D and higher contain 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) 🛛 💌
Eile Generation Settings
Last Batch # Next file to be created
Export File Path
<u> </u>
Remote ID (RID)
ABC CO.
Batch ID (BID)
ABC ARP INPUT FILE
Reguest a Confirmation File
Save Defaults Generate Cancel
ViewLog

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

<u>File Generation</u>
Chart# Bank Account#
✓ 10200000 4600019876
<b>V</b>
Add <u>R</u> emove
Date Range
Start Date         End Date           01/01/1985         to         01/28/2002
Save Defaults           ViewLpg

- 1. If you have not entered the pc/MRP chart of account number for your company's checking account, do so now by pressing the add button. You can enter more than one Wells Fargo Bank account. If you have entered the Wells Fargo Account(s), select the accounts you wish to create a batch file for by checking the respective check boxes.
- 2. Enter the Start and End Dates (Wells Fargo's program does not mind if you accidentally send the same check number again).
- 3. Press the Save Defaults button to save the above settings as your default settings.
- 4. Press the Generate button to create the file.
- 5. Log into your Wells Fargo Internet account and send the file you just generated.

14.18.4 Viewing your Wells Fargo Account Reconcilement Log

🗉 Wfe_arp.log - Notepad 📃 🗖	×
<u>F</u> ile <u>E</u> dit <u>S</u> earch <u>H</u> elp	
Start Batch1.arp       01/14/2002 to 01/21/2002         \$\$ADD ID=ABC CO.       BID='ABC ARP INPUT FILE'         WRRECU       4600019876         00000079770115024600019876320000006411         000000797801150246000198763200000052556         000000797801150246000198763200000041568         00000798001150246000198763200000074700         &       00004         0000175235	

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:

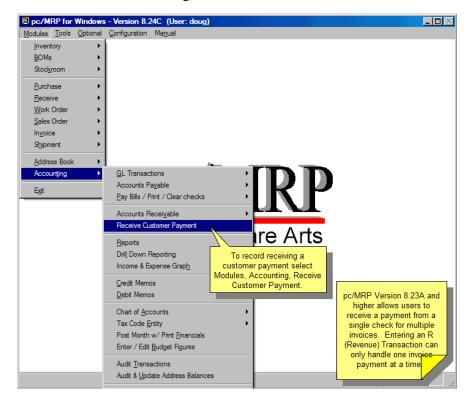
- Characters 1 through 10 contain the check number (0000007977)
- Characters 11 through 16 contain the check date (01/15/02).
- Characters 17 through 26 contain the bank account number.
- Characters 30 through 39 contains the check amt (0000006411 = \$64.11).

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.

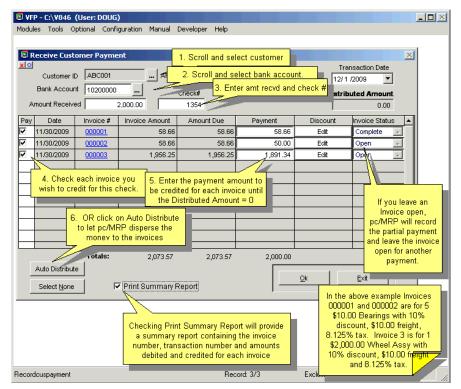
# **14.19 Receiving Customer Payments**

#### 14.19.1 Overview

With pc/MRP versions 8.22 and lower, customer payments are received with a 'R' type accounting transactions. With pc/MRP versions 8.23 and higher, customer payments can also be received using the 'Receive Customer Payment' menu item as shown in the following screen shots.



#### **14.19.2** Select the customer



# 14.19.3 Process the transaction.

10 TO 10	- C:\¥831 (L										<u> </u>
Modules	Tools Opt	-	ration Manual	Developer H	Help Prir	nter					
		₲   ▶ ▶	100% 💌	₽ @							
		comer Payme	nt							×	1
×	Customer I		AF			ll display the wo indicate the R T			nsaction [ 22/2008	Date	
А	Bank Accou mount Receiv		<u></u> 9,000.00	Transa	ictions h	lave been entere have been updat	dand	distribu	<b>ited Amo</b> 0	.00	
Pay	Date	Invoice #	Invoice Amour					unt	Invoice St	atus 🔺	
	07/21/2008	000001	5,653.	60	5,653.60	5,653.60	Ec	lit	Complete	• 🖵	
	07/21/2008	000002	30:	60	30.00	25.00		5.00	Complete	-	
	07/22/2008	000003	4,000.		4,000.00	3,321.40	Ed	lit	Open	<b>v</b>	
			PRO	DCES	SE	)					
Print	: Preview - P	RTRAN2.FRX								I	
COMPA	INY IN	W/REC RE	L/VENDINV	ACCT				DEBIT	AMT	CREDIT	AMT
ABC M	ANUFA 00	0001		10200000	BANK	CHECKING ACCO	UNT	563	53.60		
				11100000		/RECVB.CUSTOM				56	53.6
ABC M	ANUFA 00	0002		10200000		CHECKING ACCO	UNT	2	25.00		
				30850000		DISCOUNT			5.00		
ARROW	- FIFC 00	0003 DF1 M	TEP DOC/CON	11100000 10200000		/RECVB.CUSTOM CHECKING ACCO		221	21.40		30.0
Arrow	555C UU	COOS RELAI		11100000		/RECVB.CUSTOM		332	51.40	33	21.4
	hecked, the	ry Checkbox summary re		11100000	ACCINI	/RECVD.COUTON	EKJ	90	05.00		005.0
•	will be	displayed									• //
Recordeu	uspayment				Record	± EOF/3	Exclusive			NUM	

### 14.19.4 Continue or Finish.

VFP - C:\V8 odules Tools	Optio	nal Configu	ration Manual De	eveloper Help				
Receive		mer Payme		You can now dep check for anothe				×
	omer ID Account Receiver	10200000		Check#		7	ransaction Date /22/2008  outed Amount 0.00	
Pay Da		Invoice #	Invoice Amount	Amount Due	Payment	Discount	Invoice Status	-
		Totals:	0.00	0.00	0.00			-
	istribute t <u>N</u> one		Print Summary I			<u>o</u> k	Exit Or you can clid Exit Button if finished	you are
cordcuspayme	ent			Recor	d: None	Exclusive	NU	м

#### 14.19.5 Processing Customer Overpayments.

The following is a work-around method to handle customer overpayments for pc/MRP versions 8.40 through 8.43.

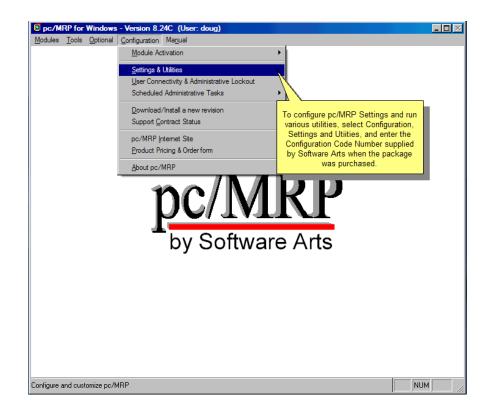
- 1. Receive the over-payment with a "R" type accounting transaction against the invoice (Modules, Accounting, GL Transactions, New Transaction, and select: R Accounts receivable payment).
- 2. Create an Independent Credit Memo for the amount of the over-payment (Modules, Accounting, Credit Memos, New, Create an independent credit memo for later use). Check the 'Show general ledger transaction screen' and zero out the debits and credits in the general ledger transaction screen.
- 3. Eventually another invoice will be created for that customer (Modules, Invoice, New). The credit memo amount is un-affected.
- 4. Post the new invoice (Modules, Accounting, General Ledger Transactions, New, and select: O Register accounts receivable invoice).
- 5. Attach the original credit memo (from step #2) to the new invoice (Modules, Accounting, Credit Memos, Attach Independent Credit Memos to Open Invoices).
- 6. Send the customer the new invoice that now includes a line item for the credit memo and shows the reduced invoice amount.
- 7. When the customer sends in the payment, either:
  - a. receive the payment with an "R" type accounting transaction (Modules, Accounting, GL Transactions, New Transaction, and select: R Accounts receivable payment) or
  - b. use the Accounting, Receive Customer Payment menu option.

Payment	Transaction Type	Debits	Credits
Original Invoice	O – Register Invoice	AR \$2000.00	Income \$2000.00
	R – Receive Payment	Bank \$2100.00	AR \$2100.00
Independent Credit Memo	O – Register Indep CM	Income \$0.00	AR \$0.00
New Invoice	O – Register New Invoice	AR \$2000.00	Income \$2000.00
Attach Credit Memo	O – Register new Dep CM	Income \$100.00	AR \$100.00
	O – Wash out Orig CM	AR \$100.00	Income \$100.00
New Invoice	R – Receive Payment	Bank \$1900.00	AR \$1900.00

Totals at end of process: Income \$4000 AR \$0 Bank \$4000

# **15.1 Settings and Utilities Module**

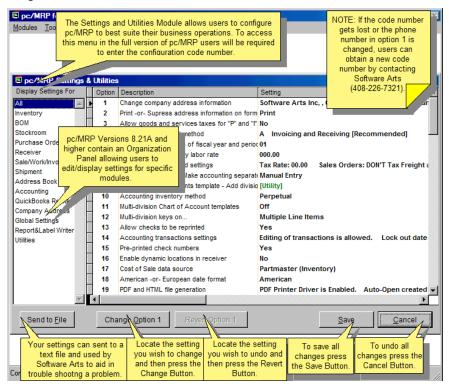
#### 15.1 Utility and Configuration Module Overview



The Settings and Utilities Module allows users to configure pc/MRP to best suite their business operations. To access this menu in the full version of pc/MRP users will be required to enter the configuration code number.

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).

The Utility and Configuration screen is shown below:



Depending on the option, chosen users will be presented with a **Run Utility** or **Change Option** button. Once an option is changed, users can press the **Revert Option** to undo changes to the option chosen. To undo all changes select **Cancel**. To save all changes press **Save**.

#### 15.1.1 Option 1, Change Address

pc/MRP for Window Modules Tools Optional	s - Version 8.24C (User: doug)	
Display Settings For	Options 1 allows users to enter and or edit your company address. Utilities	X Setting
All Gathering Company I	1 Thange company address information	Software Arts Inc, , 6830 Via Del Oro Suite 109, , Sar
Company Name * Company Name * Division/Dept Street Address	Software Arts Inc	ing and Receiving [Recommended]
City CState CZip Code FCountry Phone Number *	San Jose CA 95119 USA 408-226-7321	Entering the word PRACTICE in the Division/Dept Field will result in a large Practice Logo replacing the pc/MRP Logo on pc/MRP's Main Screen. This keeps people from entering real data into a practice copy of pc/MRP.
Fax Number Internet URL eMail Address	408-226-8435	If a company changes their phone number, they will need to call Software Arts and tell them the
* - Required Field	s <u>Q</u> K <u>C</u> a	ncel phone number that appears in the "About pc/MRP" Screen. With pc/MRP Versions 8.22N and higher Software Arts will ask you to run ShowConfigCode() at the command line. Software Arts will supply the Authorization Code.
Configtmp	Record: 1/9	4

Allows you to change your company address. This address 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.

### 15.1.2 Option 2, Print -Or- Suppress Address on Forms (P/S)

Allows you to configure pc/MRP to printout or suppress your address on your invoice, purchasing, sales, shipper, and receiving forms. This option is provided for companies who desire to print out on pre-printed forms containing their company logo and address.

#### 15.1.3 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.

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

pc/MRP for Windows - Version 8.24C (User: doug)	
Modules Tools Optional Configuration Manual	
Inventory     2     Print -or- Supress address       BOM     3     Allow goods and service taxes for "P" and "T" No       Stockroom     4     Inventory adjustment method     A Invoicing and       Purci     Option 4     01       Rece     000.00	L, , 6830 Via Del Oro Suite 109, , Sar
Shipr       Addr         Addr       See section 15.1.4 of the pcMRP user mar         Accc       Accc         Quicl       This is the recommended         Comp       Cited information regarding these select         Globa       Cited information regarding [Recommended]         Repo       Stockroom "S" and "V" transactions	
O R       Stockroom "S" transacton and Receiving       portion         O W       Invoicing (from WIP) and Receiving       Partmaster (Invertige)         O I       MFG Return and Receiving       Portion         O I       MFG Return and Receiving       Portion         V       Receiving incr parts, Invoicing will not decr parts or assys. When Stockroom       W = Receiving incr parts, Invoicing will not field = EXP, pc/MRP will not field = EXP, pc/MRP will not         Were well for building to stock work orders.       Not stock work orders.       Not stock work orders.	ing decr parts in WIP based on d to mfg but not received back. be caught. If the parts catindex
C Record: 4/94 Exclu	usive NUM //

Allows you to configure the method pc/MRP uses to adjust the inventory. As a general rule, manufacturers, distributors and retailers should select A.

**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. **No stockroom transactions are created**.

**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.

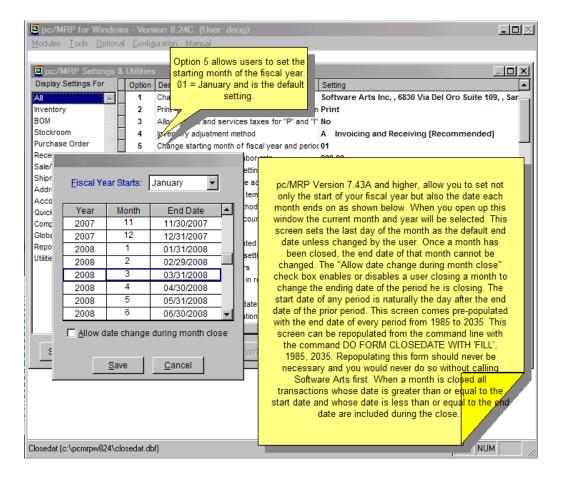
**P**, allows the invoice and receiving to adjust on hand quantities. When entering an invoice for an assembly pc/MRP will use the BOM to reduce the on hand quantity of the parts. This option can be used by restaurants and manufacturers who do not build to stock. This option reduces the quantities of parts only and not sub-assemblies. Since this option leaves no records, the inventory movement and mrp reports will no longer be accurate.

**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. With Version' 6.49BH and higher, 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.

**R**, allows receiving to increment on hand quantities and the stock room's ship to shipping to decrement onhand quantities. This inventory adjustment method is available on versions pc/MRP for Windows 6.49AG and higher

**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.

#### 15.1.5 Option 5, Change The Starting Month Of Fiscal Year



# 15.1.6 Option 6, Change The Average Hourly Labor Rate

<b>Dec/MRP for Windows</b> <u>Modules</u> <u>T</u> ools <u>Optional</u>		on 8.24C ( Iration Ma <u>n</u> u					_ <b>D</b> ×
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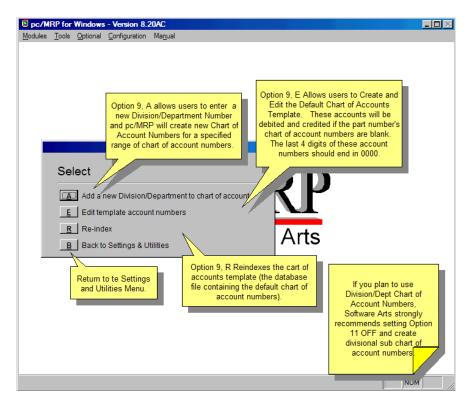
15.1.7 Option 7, Change The Sales Tax Rate (%)

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	used by pc/MRP if the sal and the customer is not in the Address Boo	ale is taxable inserted from look. cing and Receiving [Recommended]			
Sale/Work/Invoice 7 Sale	ate (%) and settings	Tax Rate: 00.00 Sales Orders: DON'T Tax Freight -			
Option 7     These setting affect t     performs Sales Tax c      Default Sales Tax Rate     Rate     0.00		separati Manual Entry d divisio [Utility] Perpetual s Off Multiple Line Items Yes Editing of transactions is allowed. Lock out date Yes			
	t is Taxable Int is Taxable	In addition freight and discounts are taxable in some states. Cycle Count Method: Full [Utility] [Utility]			
		[Utility]			
	tis Taxable Intis Taxable	Save Cancel			
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### 15.1.8 Option 8, Auto Accounting On -Or- Make Accounting Separate (A/M)

Will set auto accounting on or off. If auto accounting is set on and the user has at least Enter/Edit rights to the accounting module, entering an invoice or receiver will automatically update the general ledger. If auto accounting is set off, accounting must update the general ledger by pulling up the receiver or invoice, pc/MRP will then automatically debit and credit the proper accounts. Software Arts recommends setting auto accounting **OFF** so that invoice and receiver mistakes are not automatically entered into the general ledger.

### 15.1.9 Option 9, Create Modify Chart of Accounts Template



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.

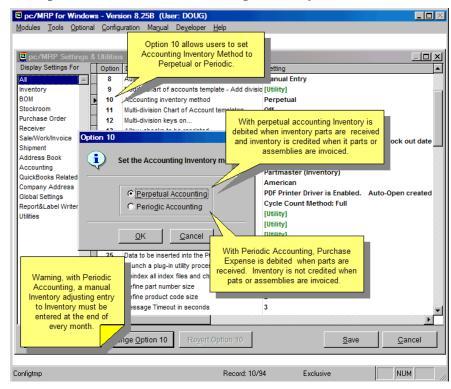
Add chart of account numbers for a division and or department:

Versions 7.01z, 7.03t, 7.05d, 7.06a, 7.42c, and 7.43a and higher 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:

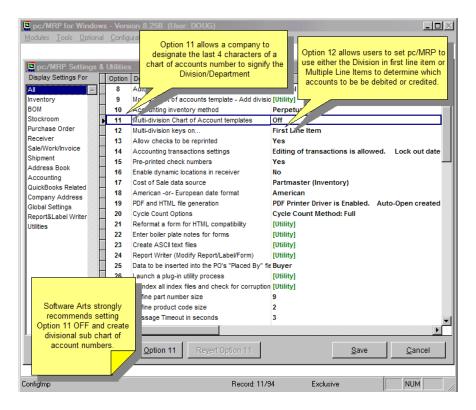
This option allows you to re-index the account template dbf file.

#### 15.1.10 Option 10, Use Perpetual -Or- Periodic 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.

#### NOTE: This screenshot is for Option 11 & 12



#### 15.1.11 Option 11, Multi Div Off -Or- ON

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 (4) characters (product code) of the part number field in the invoice or receiver being processed.

#### 15.1.12 Option 12, Multi Div to Key on First Line Item -Or- Multiple Line Items

**NOTE:** Option 12 is only used in pc/MRP versions below 8.47.

Set option 12 to FIRST if you wish the transaction to key on the div or product code from the first line item only. Set option 12 to MULT if you want pc/MRP to key on the div or product code for each line item. If option 12 is set to MULT, transactions cannot be edited, adjusting entries must be entered.

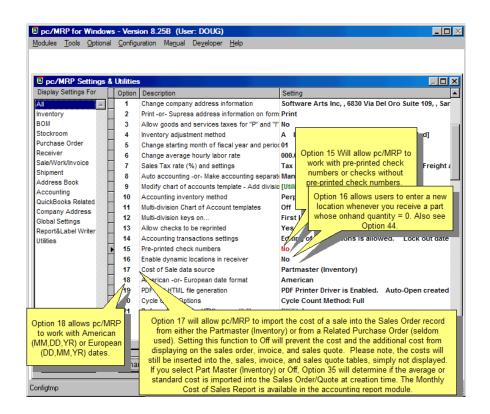
#### 15.1.13 Option 13, Allow Checks to be Reprinted (Y/N)

Allows or disallows reprinting checks that have been printed.

# 15.1.14 Option 14, Edit or Adjust Accounting Transactions

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#### **OPTIONS 15 to 18**



#### 15.1.15 Option 15, Pre-Printed Check-numbers.

Will allow pc/MRP to work with pre-printed check numbers or checks without pre-printed check numbers.

#### 15.1.16 Option 16, Enable dynamic locations in receiver.

This option allows users to enter a new location whenever you receive a part whose onhand quantity = 0. Also see Option 44.

#### 15.1.17 Option 17, Cost Of Sales From Partmaster (Inventory), Related PO, Or Off (P/R/O)

Will allow pc/MRP to import the cost of a sale into the Sales Order record from either the Partmaster (Inventory) or from a Related Purchase Order (seldom used). Setting this function to Off will prevent the **Purchase Cost**, **Additional Cost, Sale Commission %, and the Royalty Rate** from displaying on the sales order, invoice, and sales quote. Please note, the costs will still be inserted into the, sales, invoice, and sales quote tables, simply not displayed. If you select Part Master (Inventory) or Off, Option 35 will determine if the average or standard cost is imported into the Sales Order/Quote at creation time.

The Monthly Cost of Sales Report is available in the accounting report module.

#### **15.1.18 Option 18, American Or European Dates**

Selection 18 allows pc/MRP to work with American (MM,DD,YR) or European (DD,MM,YR) dates.

#### 15.1.19 Option 19, PDF and HTML File Generation Settings

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Display Settings For 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 19 allows an administrator to enab or disable PDF and HTML form generation Cost PDF and HTML file generation Cycle Count Options PDF and HTML file generation Cycle Count Options PDF and HTML file generation PDF Printer Driver	n. Setting Partmaster (In format American PDF Printer Dri Cyc Enable	ver is Enabled. Auto-Open created or Disable PDF generation. Allow users the option to auto open the PDF files they created. (Versions 8.10 and higher)
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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. With pc/MRP Versions 8.10 and higher an "Auto-open created PDF files" check box was added to allow users the option to automatically open the PDF files they created.

#### 15.1.20 Option 20, Cycle Count Options

Option 20, allows users to take either Full or Differential Cycle Counts. See Chapter 6.1.12 for the pros and cons of each method.

#### 15.1.21 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.

#### 15.1.22 Option 22, Enter Boiler Plate and Set Defaults for Forms

Selection 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, and Bill of Lading 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).

If "Transfer the Sales Order module's custom boiler plate note field into the Invoice" is checked, pc/MRP will transfer the sales order boiled 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 **not** have any text.

#### 15.1.23 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 (.dbf) will not be changed. pc/MRP will create either SDF (for word processors), Delimited or Comma delimited ASCII text files with the extension .TXT.

#### 15.1.24 Option 24, Report Writer

Allows users to create and modify custom reports, forms, and labels. See pc/MRP Custom Programming, section 15.4.1 of this manual for instructions on using the report writer.

#### 15.1.25 Option 25, Enter User Name Or Inventory Buyer Into PO's Placed By Field

Allows the Placed-By field of the purchase order to be populated by either the user's login name or the inventory Buyer field.

#### 15.1.26 Option 26, Launch a Plug-in Utility Process.

Allows pc/MRP to load and launch utility plug-ins.

#### 15.1.27 Option 27, Re-index All Index Files

Re-indexes all of pc/MRP's index files. Remember to set the Admin Lockout and wait for all to exit pc/MRP. If not, you will get a 1705 error message.

#### 15.1.28 Option 28, Define Part Number Size

Sets the size of the part number from 6 to 15 characters, including dashes, product code and suffix. Also see Option 29 & 48.

#### 15.1.29 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 Option 28 & 48.

#### 15.1.30 Option 30, Set Time Out (Seconds)

Sets the length of time an update message is shown on the screen. Update messages display a change in on hand quantities, on order quantities, etc. Point of sale operations should set this value to1 to decrease data input time. Do not set the time out value to zero as pc/MRP will treat this value as an infinite and display the message until the user presses enter.

#### 15.1.31 Option 31, Change Password

If you do not have pc/MRP's Optional Password Module activated, Option 31 allows the password to be changed.

#### 15.1.32 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 must then edit the inventory files and insert valid vendors.

#### 15.1.33 Option 33, Set Email Default Subjects And Messages

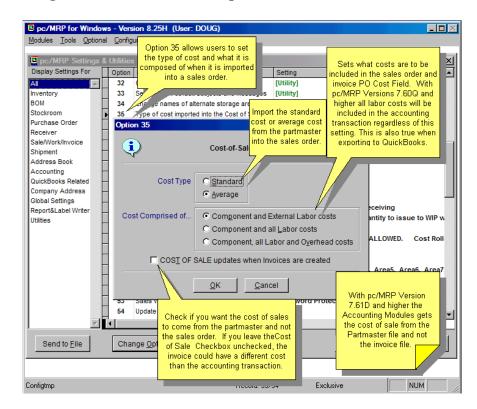
This option allows users to set the default subject and message for each kind of pc/MRP e-mail.

📕 Email Default Co	ntent
Request for Quote	
P.O. Reques <u>t</u>	Subject line for Invoices
<u>P</u> urchase Order	
<u>R</u> eceiver	Edit the default Message body: IV-MSG TXT
Sales <u>Q</u> uote	Edit the default Message body: IV-MSG.TXT
<u>S</u> ales Order	
<u>W</u> ork Order	Credit Memo
In <u>v</u> oice	Debit Memo Ok Cancel
S <u>h</u> ipper	AP Voucher

#### 15.1.34 Option 34, Change Names of Alternate Storage Areas in Inventory

Allows users to change the names of the alternate storage areas where inventory may be stored.

#### 15.1.35 Option 35, Average Cost or Standard Cost Imported into Cost of Sales

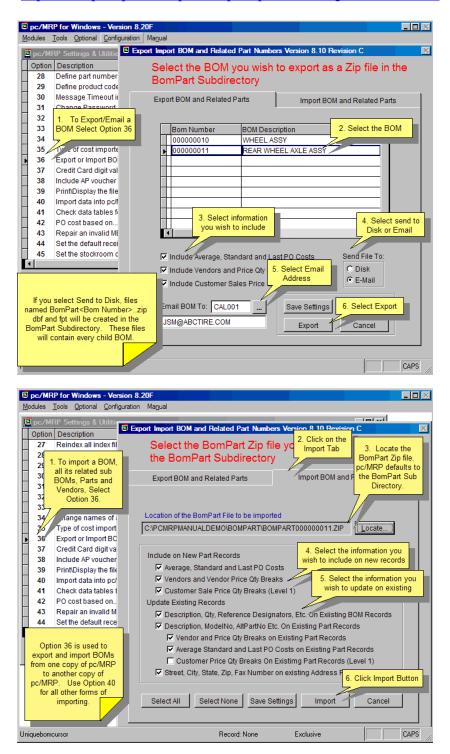


pc/MRP uses option 35 to get either standard or average costs when entering a sales order, invoice, posting an invoice to pc/MRP or QuickBooks Regardless of the Cost Comprised of Setting, if labor is added to a BOM, pc/MRP will includes the labor in cost roll ups, and cost of goods sold when posting an invoice to pc/MRP or QuickBooks. If you do not want labor to be included in the cost of goods sold, do not add labor to BOMS. The purchase cost sent to a sales order and invoice depends on the "Cost Comprised of" Setting. If cost rolls up are not performed on a regular basis the costs exported to sales orders, invoices, accounting and or QuickBooks may not reflect the current cost.

If you leave the Cost of Sale checkbox unchecked, it is possible your accounting transaction will have a different cost than the invoice if a cost rollup changed the cost between the time the Sales order was created and the O type transaction was created. (See section: 14.4.1.2.)

#### 15.1.36 Option 36, Export/ Import a BOM 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 version 8.20C and higher. See slideshow here: <a href="http://www.pcmrp.com/mrp101/importoption36settingsandutilities.htm">http://www.pcmrp.com/mrp101/importoption36settingsandutilities.htm</a>



#### 15.1.37 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..

#### 15.1.38 Option 38, Include AP Voucher Information in Receiver Reports

Allows AP vouchers to be included or not included in the receiver reports.

#### 15.1.39 Option 39, Printout File Structure

Allows the user to print out the file structure for any of pc/MRP's data base files. This option also allows users to compare the existing file structure with what the file structure should be.

#### 15.1.40 Option 40, Importing 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 section 15.11.1, "Importing Data Files," for more detail.

#### 15.1.41 Option 41, Check Data Base Files For Numeric Overflow

Allows the user to check 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.

#### 15.1.42 Option 42, PO Costs Based on "Vendor Price List", "Last PO Cost" or "Ave Cost"

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.

#### 15.1.43 Option 43, Un-assigned

#### 15.1.44 Option 44, Set Default Receiving Area

Sets the Inventory storage area that the receiving module defaults to when receiving. Also see Option 16.

#### 15.1.45 Option 45, Set Stockroom Defaults

Option 45 sets the stockroom to record standard or average costs when issuing parts to manufacturing. It also allows you to set the default action issue Available Qty or Required Qty when issuing a component that is short. Selecting quantity required, if a part is short, pc/MRP will drive the quantity negative automatically. Accounting should set the default cost. The Required Qty is the recommended setting as pc/MRP will keep track of shortages.

#### 15.1.46 Option 46, Allow Auto Receive Option

Turn on/off the ability to automatically receive the remaining items on a purchase order.

#### 15.1.47 Option 47, Set Inventory Defaults

Turn on/off the ability to mark-up sale prices and roll-up assembly costs from the inventory menu.

#### 15.1.48 Option 48, Set 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.

#### 15.1.49 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.

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	e of cost imported into t		Setting Cost Type: Average	Cost Comprised	d of Com
1	eate/Export Federal Expr Incrementation Method	ess address ASCII file	[Utility]		
In the fi the sec	rst, most common meth ond method, the root of t	t Number in one of two w od, each Product Code h the Part Number remains r parts entered in each m	as its own series of o s sequential regardle		
<u>P</u> First Metho	Root         Suffix           HD000001-00         LS000001-00           LS000002-00         LS000002-00	Prod Code Roo Second HD00000 Method LS00000	<u>t</u> 	lethod to Use: © <u>F</u> irst Method © <u>S</u> econd Meth	
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If you would like to have dashes in the part number, they should be included in the Part 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.

#### 15.1.50 Option 50, Set Cost Averaging Defaults

You can set the cost averaging formula used by pc/MRP to include all stores areas and or the WIP area for the current quantity on hand number.

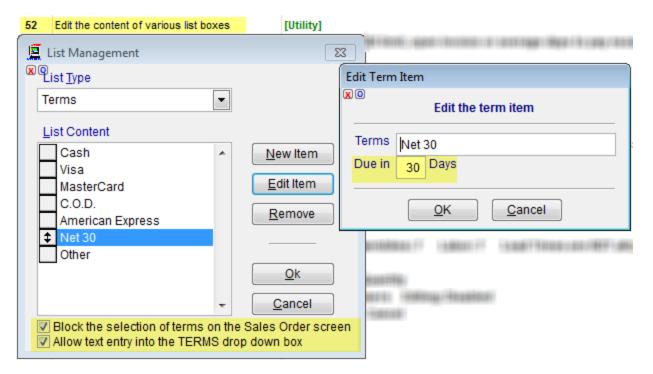
#### 15.1.51 Option 51, Allow a BOM Part or Item Number to be Included in a BOM Multiple Times

Option 51 allows users to add the same part number and or item number to the same BOM multiple times. Otherwise, you must edit the quantity of that part number in that BOM. This function stores a variable called mulbmprt in the mulbmprt.mem file. If mulbmprt = Y, the user will be allowed to add the same part number to the same BOM.

#### 15.1.52 Option 52, Edit the Address Book's List-Box Contents

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:** 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.

#### 15.1.53 Option 53, Warn if a Sales Order puts a Customer over their Credit Limit

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Control C	Option 53 sets Sales Order and Invoice warning messages.
	Override Password Ok Can pc/MRP Version 8.22N and higher
	71       Show each sub-assy cost from the Partmast tk NO         72       Remap (change) Chart of Account numbers an [Utility]         73       Support Contract Expiration Warning in Days         30       74         Prevent document/part number from being edite       Stockroom, Purchase/Purchase Request, Receive,
Send to <u>F</u> ile	Change Option 53         Revert Option 53         Save         Cancel
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Option 53 can be set to warn if a sales order will exceed the customer's credit limit, etc. This option creates a file called salecrdt.mem. This file will contain the override password contained in a memory variable named mdecsetpw.

#### 15.1.54 Option 54, Update the Alternate Part Numbers and or Descriptions on all BOMs

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📮 pc/MRP Settings & U	Optiguration       Magual       Developer       Help         Initial Structure       Option 54 Updates the Alternate Part Number Descriptions and the BOM Descriptions in the BOM File with the Descriptions in the Partmaster File       Image: Structure         52       Edit       Image: Structure       Image: Structure       Image: Structure       Image: Structure         54       Option and the BOM Descriptions in the Partmaster File       Image: Structure       Image: Str
Send to <u>F</u> ile	Run Utility 54         Reyert Option 54         Save         Cancel
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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.

#### 15.1.55 Option 55, Put Serial Numbers into the Invoice Comments field.

Option 55can 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.

#### 15.1.56 Option 56, Match Customer Parts List to pc/MRP Inventory

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 15.4.2.20)

#### 15.1.57 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.

#### 15.1.58 Option 58, Modify 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.

#### 15.1.59 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)

#### 15.1.60 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.

#### 15.1.61 Option 61, Costed BOM Reports Update Assembly Cost

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 to "On" or "Off".

#### 15.1.62 Option 62, Allow Editing Of Quantity and Cost Fields in the Inventory Data Entry 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" will only be accurate if the stock room is used to adjust quantities and not by editing inventory. 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.

#### 15.1.63 Option 63, Set Document Item Limits For Sales, Purchases

Option 63 allows users set the maximum number of line items allowable for sales and purchase orders. Each line item is fed into an array and due to RAM memory limits for some computers, it may be wise to set the limits to 50 line items for computers with less than 32 mega bytes of RAM.

#### 15.1.64 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,

#### 15.1.65 Option 65, Set Default Lead Times

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.

#### 15.1.66 Option 66, Set new Work Orders as Consumable

Option 66 sets work orders as Consumable by default.

#### 15.1.67 Option 67, Set the Sales 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. 5.1.3.8. It is strongly recommended this option be set to Sales Level Quantity as this method is more straight forward and easier to understand.

# 15.1.68 Option 68, Allow stepping down for BOMs marked as 'P' in the inventory module (versions 7.51 and higher)

Option 68 allows users with phantom BOMs 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.

#### 15.1.69 Option 69, Set the Physical Inventory entry window's button order (versions 7.52 and higher)

Option 69 allows you to set the Physical Inventory Data Entry Button order to Enter-Add-Cancel or Add-Enter-Cancel.

#### 15.1.70 Option 70, Add freight cost (incoming) into the cost of sales for a sales order based on a % of std costs

Option 70 can be set to add the freight cost as a percent of standard cost. We recommend leaving this option set to 0%. Setting this to say 10%, would increase the cost of sales amount debited and the inventory credited by 10% of the standard cost whenever an O type accounting transaction is entered.

#### 15.1.71 Option 71, Show each sub-assembly cost from the Partmast table for the Exploded BOM Report

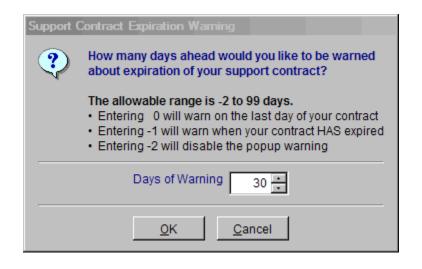
Option 71 allows sub-assembly costs to be displayed along with component costs when display or printing an exploded BOM. We recommend leaving this option set to No. If you set this option to No, only the component part costs are displayed on an exploded BOM. The assembly is displayed but the cost of 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.

#### 15.1.72 Option 72, Remap (Change) Chart of Account Numbers and Propagate Changes

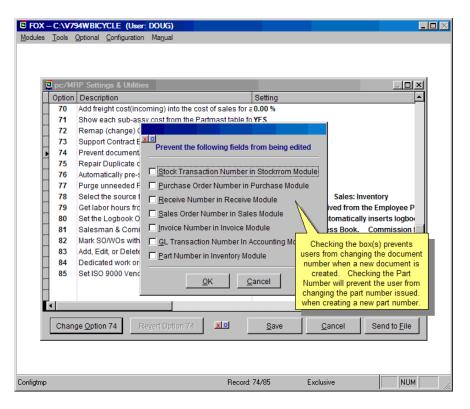
Option 72 allows users to change one ore more chart of account numbers. This utility will then propagate the change in every necessary pc/MRP table. (Historic accounting transactions, account templates, backup chart of accounts, inventory, invoice, sales, purchase orders, receivers, sales quotes and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

#### 15.1.73 Option 73, Support Contract Expiration Warning in Days

Option 73 allows users to set the numbers of days ahead you would like to be warned that your pc/MRP Support Contract is due to expire.



#### 15.1.74 Option 74, Allow/Prevent Editing of Document Numbers (v 7.54A and higher)



#### 15.1.75 Option 75, Repair Duplicate Document Numbers

Option 75 allows users to renumber records with duplicate document numbers. This utility supports the following tables: transact, stockrtra, 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 transfer and run the renumber.scx and .sct files from pc/MRP's Command Line. Set an Administrative Lockout and make a backup before running these options.

#### 15.1.76 Option 76, Pre-seed Physical Inventory with Current Inventory Quantities

Option 76 allows users to load (pre-seed) current inventory quantities into the physical inventory team count fields. The pre-seed selection will only function if all team counts in all inventory areas are zero. If all team counts are zero and this option is set to yes, when a user selects to enter a team count quantity for the first time in areas 1-20, the pre-seed option will be activated.

#### 15.1.77 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.

#### 15.1.78 Option 78. Select the Source for the Division field in Purchase and 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.

# 15.1.79 Option 79. Get Labor from the Employee Time Sheets when Receiving back completed assemblies from the Stockroom.

Option 79 allows users to enter labor hours when receiving back completed assemblies or have the labor hours populated from the from the Employee Time Tracking module. If you set Get Labor Hours from the Employee Time Sheet, you can select to get the hourly labor rate from the Employee Pay Rates or from in 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 employee time sheets must be complete before the sales or work order is received back from manufacturing. Please note 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.

#### 15.1.80 Option 80. 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.

#### 15.1.81 Option 81. Salesman & Commission source for Sales Orders and Quotes.

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.

#### 15.1.82 Option 82. Mark SO/WO with an Issue Subs Only 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.

#### 15.1.83 Option 83. Add, Edit or Delete Terms and Conditions for Purchase Orders.

Option 83 allows the user to add, edit or delete Terns 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 can press the Options Button to select Terms and Conditions other than the default Terms and Conditions.

#### 15.1.84 Option 84. Dedicated work orders can be issued for multiple level.

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.

#### 15.1.85 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.

#### 15.1.86 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.

#### 15.1.87 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 complete (a Y in the Complete Field) or posted (a Y in the Posted 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.

#### 15.1.88 Option 88. Allow issuing materials for on hold sales/work order

Option 88 prevents parts from being issued to on hold sales orders.

#### 15.1.89 Option 89. Shipment Module Settings

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#### 15.1.90 Option 90. Invoice Warnings

Option 90 can be set to require a customer purchase order numbers on an invoice prior to saving the invoice.

#### 15.1.91 Option 91. Require Date Required on sales/work orders

Option 91 can be set to require a date required prior to saving the sales/work order. This is need for an **ISO 9000 Customer On-time Delivery** report or when the **Over Due Only** 'Include' option is selected for Sales Order reports.

#### 15.1.92 Option 92. Require Delivery Date Required on purchase orders

Option 92 can be set to require a delivery date prior to saving the purchase order. This is need for an **ISO 9000 Vendor Performance** report or when the **Over Due Only** 'Include' option is selected for Purchase Order reports.

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access vario	ous sen	e configration code number that is used to esitive application features such as Records and changing the Configuration	Base Configuration Code Number based on the company's phone number.
		number is 21924 number to 1234 Cancel New Configuration Code Number	If a company changes their phone number, they will need to call Software Arts and tell them the phone number that appears in the "About pc/MRP" Screen. With pc/MRP Versions 8.22N and higher Software Arts will ask you to run ShowConfigCode() at the command line. Software Arts will supply the Authorization Code.
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15.1.94 Option 94. Records that require a valid Chart of Account number

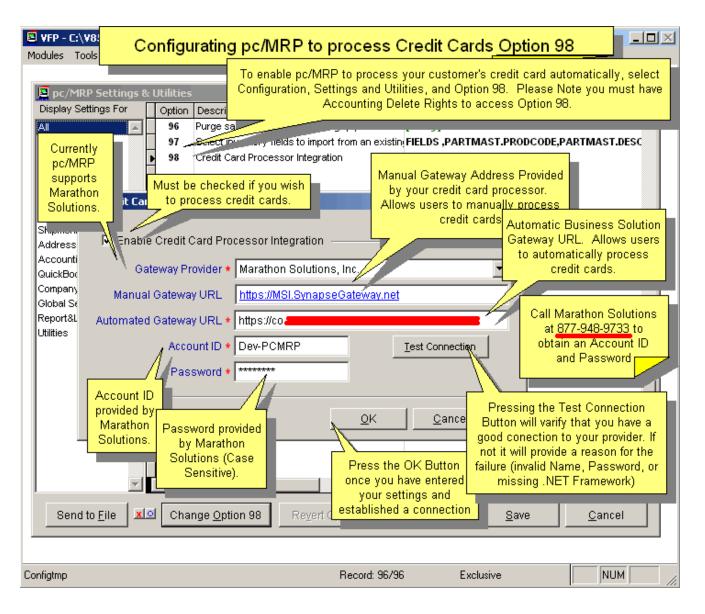
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#### 15.1.96 Option 96. Purge saved user related setting, queries, & lists

pc/MRP Settings & U		
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ventory	95 Allow Credit Memo creation from the sales order module.	[None] Yes
DM	<ul> <li>96 Purge saved user related settings, gueries and lists.</li> </ul>	[Utility]
ockroom	Purge User	[ount]]
rchase Order	This process allows the removal of the various stor field lists, importation maps, etc. for one or more us	
dress Book —	This is typically performed after a user's employme	ent has terminated.
Accounting QuickBooks Related Company Address Global Settings Report&Label Writer Utilities	Select the user(s) whose various settings and stored elements are to be removed. DOUG DOUG BILL CHARD DAVE DAVE DAVID	t user(s) e. that this process WILL NOT purge er's entry in the Password module. a user's Password access rights enformed manually by the Password or directly within the Password 2. Press OK.
	red rged, all settings, Queries, etc. will be non-retrievable.	Ok <u>C</u> ancel

# 15.1.97 Option 97. Select inventory fields to include when creating a new part number and copying fields from an existing part number.

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tilities	Н	PARTMAST.DRAWSIZE	Character	1	
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#### 15.1.100 Address Book Modules (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

#### **15.1.110 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.

#### 15.1.120 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

#### 15.1.130 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

#### 15.1.140 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

#### 15.1.150 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)

#### 15.1.160 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.

#### **15.1.170 Shipment Module:**

- 52. Edit the content of various list boxes (User definable pc/MRP dropdown lists)
- 89. Shipment module settings.

#### **15.1.180** 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
- 12. Multi Div to Key on First Line Item -Or- Multiple Line Items (not available in 8.47 and higher)
- 13. Allow checks to be reprinted
- 14. Accounting transactions settings (Allow editing of transactions and Lockout Date)
- 15. Pre-printed check numbers
- 17. Cost of sale data source.
- 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

#### 15.1.190 QuickBooks Related Settings:

- 10. Accounting inventory method
- 17. Cost of sale data source.
- 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

#### **15.1.200** 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

#### **15.1.210** 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)

#### 15.1.220 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)

#### 15.1.230 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.

## **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. You will need to make backups before performing.

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.

#### Step One

Select a good medium to store your backups. Many customers use anything from CD-RWs to Zip drives and Tape Backups. Certainly tape backups are fine, but we do recommend CDs, DVDs, Zip drives, Jazz drives, or solid state USB devices. Tape backups are a little slow and do not last as long as CDs, DVDs, USB devices, or ZIP and Jazz drives, etc. **Furthermore, it is essential not to use an incremental or compressed backup method**. To make a backup of pc/MRP simply copy the entire folder.

#### Step Two

With whatever medium you select, use at least 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 we are not writing over our last good backup.

#### Step Three

To prepare pc/MRP for a Backup re-index all files and check for corruption. To do this select Configuration, Settings and Utilities, and **Option 27**.

#### Step Four

Simply make your backup. You can do this through windows. Do not drag and drop files. Use the CTRL-C and CTRL-V 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. Do not randomly shut-off your computer. Always shut down your computer the correct way by exiting all programs first. Always store one of your recent backups off site.

#### pc/MRP Back-up suggested procedures

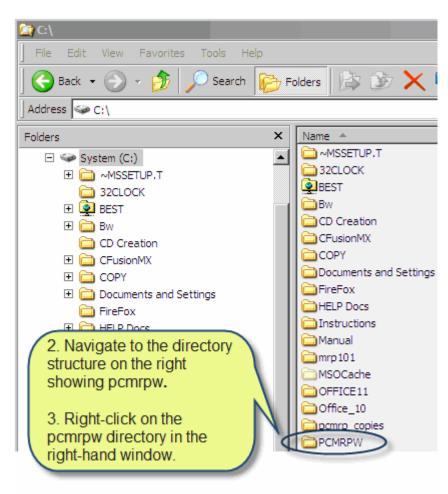
pc/MRP's directory is self contained. That is, pc/MRP runs entirely within its directory with no links to the Windows Registry or any '.ini' files. If your IT department allows you to make a backup of the pc/MRP directory, and you know where the directory is located, navigate to that directory and follow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

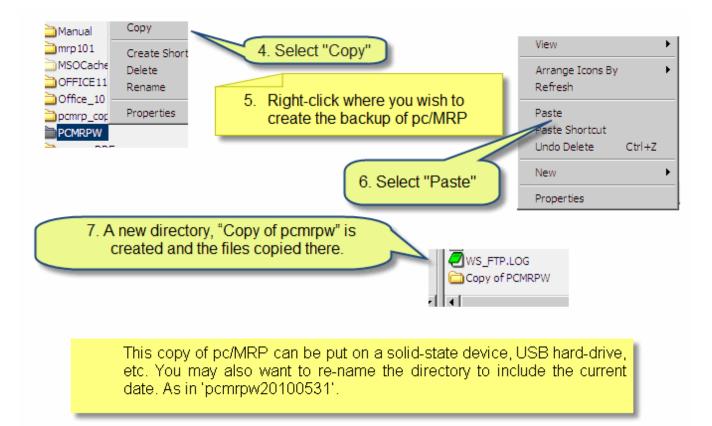
### These instructions are referencing a "c:\" drive, yours may be different!

Therefore, to backup pc/MRP, just:

1. 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.

Once again, 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.

#### 15.2.2 Quick Backups

pc/MRP versions 7.53C to 7.90 allow users to make quick backups of the data files in pc/MRP by using Option 73 in the Settings and Utilities.

pc/MRP versions 8.00 and higher allow 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 Creating Macros in pc/MRP

#### **15.3.1 Purpose of Macros**

Macros are created by the end user to simplify data entry and or processing procedures. Macros through the use of user-defined keystrokes perform repetitive procedures with several steps in one keystroke. When used properly and effectively macros are a powerful tool that greatly increases 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 end user uses the mouse while the macro is recording.

#### **15.3.3 Creating Macros**

Macros are created by selecting <u>T</u>ools then <u>M</u>acros 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 simply choosing the same Macro Key Definition after selecting <u>T</u>ools then <u>M</u>acro 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**

Macros are not working after following the steps above.

- 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 can be used to record the actual actions the macro is to perform.
- Be sure that the end user that created the macro is logging in as the same user. pc/MRP keeps track of macros via individual user.
- The Demonstration version will not save macros after pc/MRP is exited.
- A macro file can become to long or corrupt. Delete the macro file, "username.fky" and re-enter the macro(s).
- Macro names cannot contain spaces.

## **15.4 Custom Report and Label Making**

#### 15.4.1 Overview

The configuration menu in pc/MRP for Windows version 6.49AH and higher contains a custom Visual FoxPro report writer that allows users to modify pc/MRP reports. The table below contains the name of pc/MRP's standard and custom reports and the dbf file used with each report. Prior to modifying or creating a report or label, back up the original standard .frx and .frt report files or the standard .lbx and lbt label files to floppy disk for safe keeping. These back up 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 as standard reports are overwritten and custom reports are not overwritten when pc/MRP is updated to a newer version.

**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.

For more detailed information on the use of the VFP 7.0 report writer, please see the Microsoft Visual FoxPro site links:

http://msdn.microsoft.com/library/default.asp?url=/library/en-us/fox7help/html/vfp7startpage.asp http://msdn.microsoft.com/library/default.asp?url=/library/en-us/fox7help/html/lngoverview\_of\_the\_language.asp

For VFP 9.0 SP2:

http://msdn.microsoft.com/en-us/library/724fd5h9.aspx

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 you would, from within 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 modify or use as a basis for custom report or label
- 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.

E pc/MRP for Windows	
<u>File Edit View Format Iools Report Window H</u> elp	
📲 Report Designer - invlogw.frx	
PAGENO PAGENOINVOICE REPORT	
- <u>DATE()</u>	
	·····
1 SALESH ITEM ST. GATESUTE PARTON	POSTED HODELN
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0 12NUOICE .NORSES	
Group Header 1:INVOICENO	
0 SONO_   ITEMNA SALLEFT (DATES PARTNO CUSTCORP CUSTPHONE ] DESCRIPT	P MODELNO_
🔺 Detail	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Group Footer 1:INVOICEND	
A Page Footer	
Summary	

pc/MRP's Custom Report Writer is shown above with the following icons in the upper left hand corner text  $\mathbf{A}$ , field  $\mathbf{ab}$ , 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 a field object or clicking on the word object brings up the Report Expression dialog box (shown below) which allows you to edit the object.

Report Expression	×
Expression: DESCRIPT	ОК
Eormat:	Cancel
Field position	Calculations
Float     Fix relative to top of band	Print When
C Fix relative to <u>b</u> ottom of band	
Stretch with overflow	
C <u>o</u> mment	
×	
<b>T</b>	

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 partnumber would print out in the area you are editing. The format field and button will allow you to format the data (!!!! = upper case, 999.999.99 = numeric only with 2 decimal places, etc.). The Print When Box 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. Clicking on the Expression 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:

··

In the above example the partno field was selected by double clicking on the partno field in the fields list. If we wanted to print out the first 4 characters of the part number, you could type in left(partno,4) 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 (+, -, /, \*, 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.

#### 15.4.1.1 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 the Configuration option
- 3. Click on Settings and Utilities
- 4. Click on the **Next** button
- 5. Place your cursor over the spinner button
- 6. Click the "up" arrow until you get "24"
- 7. Click OK
- 8. Enter your code number and click **OK**
- 9. Click on the **Form** button
- 10. Select the parts\$.frx file by double clicking or click OPEN

Your screen should look like this:

pc/MRP for Windows		_ 🗆 🗵
$\underline{F}ile  \underline{E}dit  \underline{V}iew  F\underline{o}rmat  \underline{T}ools$	<u>Report</u> <u>W</u> indow <u>H</u> elp	
E = 🛠 9 🖹 🔪		
📓 Report Designer - parts\$.f	rx	
	150	500 <u> </u>
<sup>0</sup> PAGE NO. PAGE DATE()	PARTMASTER REPORT	
MHEADER		
PART NUMBER	DESCRIPTION	OTAL QTY
Page Header		
PARTNO	DESCRIPTONHAND	+AREA2QTY+ ST
🔺 Detail		
A Page Footer		
	Total: ONHAND	+AREA2QTY+ S
🔺 Summary		-
-		NUM //

The first thing you want to do is to save the file.

You want to save using the custom form name so as not to overwrite the original file.

- 1. Click on File
- 2. Click on Save As
- 3. The 'Save Report As' box should read: **cuspar\*.frx** (\* means any characters you want. Keep the report names relatively short. Some reports will only have a ? or ??. This means your report name can end in any single character or double character you want.)
- 4. Click the Save button
- 5. Place your cursor over the title "Partmaster Report"
- 6. Hit the "delete" button on your keyboard
- 7. Click on the text box (A) over on the left hand side of the screen
- 8. Place the cursor over where "Partmaster Report" use to be and click
- 9. Type in "Partmaster Inquiry" and click somewhere on the screen
- 10. Click back onto your new text to highlight it with the little square boxes
- 11. Now go to the menu bar and click on Object
- 12. Click on Font; this should bring you to a font dialog box
- 13. The font should be Courier New, font style is Bold and size is 16; click OK
- 14. Click on Object again

#### 15. Click Pen Color

#### 16. Chose the color red

Your screen should look similar to this:

pc/MRP for Windows	
<u>File Edit View Format Iools Report Window Help</u>	
📔 Report Designer - cuspar01.frx	
PARTMASTER REPOR	<b>P</b>
MHEADER	
PART NUMBER DESCRIPTION	TOTAL OTY
▲ Page Header	
PARTNO DESCRIPT	ONHAND+AREA2QTY+. S'
🔺 Detail	
A Page Footer	
	ONHAND+AREA2QTY+ S
Summary	<del>ت</del>

- 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:

	1.00
pc/MRP for Windows	×
<u>File Edit View Format Iools Report Window H</u> elp	
🖥 Report Designer - cuspar01.frx	
0 50 100 150 200 250 300 350 400 450 500 550 €	
PAGE NO. PAGE PARTMASTER REPORT	
MHEADER	
PART NUMBER CLASSIFICATION TOTAL QTY	
A Page Header	
PARTNOONHAND+AREA2QTY+ S'	
▲ Detail	
A Page Footer	
Summary	
NUM CAPS	//

When you close the parts\$.frx screen, you do not need to save any of the changes. This exercise is designed to get you familiar with modifying any report you want.

#### 15.4.2 List of Reports

pc/MRP for Windows includes the report, forms, and labels listed below. If the last character in the report name is "w" it is the wide carriage report. For example the UNCSIN report is the report used for 8.5" x 11" print outs and the UNCSINW report is the report form use for 14" x 11" printouts.

When viewing any report you can view the open tables by pressing CTRL-F10 (CTRL-F12 in 8.10 and above). 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\PCMRPW750\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

#### **15.4.2.1 BOM Module**

	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 (incls comments)	bomtemp.dbf
PICBOM	standard pick list exploded and single level	bomtemp.dbf
PICBSN	standard pick list with available serial#'s	bomtemp.dbf
SINBOM	standard costed single level BOM	bomtemp.dbf
UNCEXP	standard uncosted exploded BOM (incls comments)	bomtemp.dbf
UNCSIN	standard uncosted single level BOM	bomtemp.dbf
UNCSRF	standard uncosted single level BOM w ref des	bomtemp.dbf
WHEBOM	standard where used	bomtemp.dbf
WHEBOMML	multi-level where used	wheretree(tmp
		partmast, BON
Custom BOM	-	
CALLBOM	custom all BOMs(8.00 & below)	bomtemp.dbf
CALLBOM CAVABOM	custom all BOMs(8.00 & below) custom parts availability report(8.00 & below)	bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below)</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM CPICBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM custom pick list exploded and single level</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM CPICBOM CSINBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM custom pick list exploded and single level custom costed single level BOM</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM CPICBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM custom pick list exploded and single level</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM CPICBOM CSINBOM	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM custom pick list exploded and single level custom costed single level BOM</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf
CALLBOM CAVABOM CCNVBOM CEXPBOM CPICBOM CSINBOM CUNCEXP	<pre>custom all BOMs(8.00 &amp; below) custom parts availability report(8.00 &amp; below) custom convert parts to assy report(8.00 &amp; below) custom costed exploded BOM custom pick list exploded and single level custom costed single level BOM custom uncosted exploded BOM</pre>	bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf bomtemp.dbf 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.

#### 15.4.2.2 Accounting Module

Standard Accou	nting Reports	
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
PROFITANDLOSS	YTD profit & Loss,Div/Dept YTD Exp & Revenue	Profitandloss.dbf,
		Chartacc.dbf
PRTRAN	general ledger and 5th close month gl reports	prtrntmp.dbf
PRYTD	year to date expense and revenue, Div/Dept YTD Exp	chartacc.dbf
	& Revenue report	
RECLOG	standard debit memo report	receive.dbf
RELCOSTSO	Cost of salebased 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 R	eports and Checks	
CACCPAY	custom accts payable report	receive.dbf
CACCPAYW	custom accts payable wide carriage report	receive.dbf
CACCREC	custom accts receivable report	invoice.dbf
CACCRECW	custom accts receivable wide carriage report	invoice.dbf
CBILL	custom billing statement form	billtmp.dbf
CCASHOUT	custom cash out report	purchase.dbf
CCOMMISS	custom commission report based on payment	transact.dbf
CCOMMISS	custom commission report based on invoice	invoice.dbf
CCOMMISS	custom commission on payment/invoice	transact.dbf invoice.dbf
CCOSTSAL	custom cost of sales(invoices),Manufact Variance	invoice.dbf
CFIFO	custom FIFO report	fifotmp.dbf
CHKREC	custom check reconciliation report	prgltmp.dbf
CGKTRIAL	Custom current month Trial Balance report	chartacc.dbf
CHREC	custom accts receivable payment history rpt	billtmp.dbf
CPCREBIT	custom Balance Sheet, Liability & Equity	chartacc.dbf
CPPV	custom purchase price variation report	ppvtmp.dbf
CPRDEBIT	custom Balance Sheet, Assets report	chartacc.dbf
CPRGL	custom t-acct,4th close mon, cur bal acct reports	prgltmp.dbf
CPRTRAN	custom general ledger, 5th close month gl reports	prtrntmp.dbf
CPRYTD	Custom year to date expense and revenue report	chartacc.dbf
CRECLOG	custom debit memo report	receive.dbf
CRELCOSTSO	Custom cost of sale based upon Related doc nbr	relcostso
CROYALTY	custom standard royalty report	invoice.dbf
CSOMANUFACTURECOST	Custom SO/WO manufacturing cost report	salescursor
CSPAY2	custom summary accts payable report	acpaytmp.dbf
CSREC	custom summary accts receivable report	billtmp.dbf
CTAXLOG	custom in state sales tax report	invoice.dbf
CTAXLOGO	custom out of state sales tax report	invoice.dbf
CUSCHECK	custom check (6.73 and Higher)	<pre>mchktmp.dbf (tmp)</pre>
CUSIRS*	custom 1099, 1096 forms	
CREMITAL	Custom remittance list	Transact.dbf
CREMIT	Custom single check remittance report	Transact.dbf

# 15.4.2.3 Partmaster Module (as of V830, there is also a link to the Partvend.dbf)

AVL Assigned vendor list	Partmast.dbf(v820-) Avldata (v830+)	
BLNKINV standard disp and pr physical/inventory form	partmast.dbf	
BLNKINVW standard wide carriage physical/inventory frt	partmast.dbf	
COSTINV physical inventory variance report	partmast.dbf	
CYCLECNT cycle count standard form	cyctmp.dbf	
CYCLEDIFFCNT Differential cycle count form	Cyctmp.dbf partmast.dbf	
DISPPART inventory/partmaster find part report	partmast.dbf	
PARMOV partmaster inventory movement report	movement.dbf	
PARMOVP physical inventory, inventory movement report	<pre>movement.dbf partmast.dbf partmast.dbf</pre>	
PART standard uncosted disp and pr inventory rpt		
PART\$ standard costed pr and wide inventory report		
PARTW standard uncosted wide inventory report	partmast.dbf	
PIH physical inventory history report	pih.dbf	
PRICELIS standard price list report	partmast.dbf	
Custom Partmaster Reports		
CUSPAR* custom inventory report	partmast.dbf	
	·	
Custom Partmaster Reports		
CBLNKINV custom physical inventory count form	partmast.dbf	
CUSPIH* custom physical inv history report	pih.dbf	
CUSTCYC custom cycle count form (full or differential)	Cyctmp.dbf	
CUSTPHY custom physical inventory variance report	Partmast.dbf	

# 15.4.2.4 Sales Order/ Work Order Module

SALELOG	ales Report	les.dbf
	rrow carriage and displayed sales report	
SALELOGW	le carriage sales report	les.dbf
SOPER	) 9000 Customer on time delivery report	les.dbf
SALES_PO	1 Open SO, PO, & WO report sorted by Partnumber	pocursor
tandard Sal	es/Shipper Form	
SALE	aded sales order form	les.dbf
SALEB	ked sales order form	les.dbf
SHIPPER	aded shipper form	les.dbf
SHIPPERB	aded boxes shipper form	les.dbf
ustom Work	Order/Sales/Shipper Form (Version 7.72 & Lower)	
CSO	stom work order and sales order form	les.dbf
CSHIPPER	stom shipper form	les.dbf
CONTLEME		
ustom Work	Order/Sales/Shipper Form (Version 7.73 & Higher)	
CSO*	stom work order and sales order form	les.dbf
CSHIP*	stom shipper form	les.dbf
ustom Sales	-	
CUSSO*	stom Sales Reports	les.dbf
	-	les.dbf les.dbf
CUSSO* CUSTSO*	stom Sales Reports	
CUSSO* CUSTSO*	stom Sales Reports stom Sales Reports	

**Note:** Sales Order reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

#### 15.4.2.5 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
Custom Invo	ice Reports	
CUSINV*	custom invoice report	invoice.dbf
Custom Invo	ice/Shipper Form (Version 7.72 & Lower)	
CINVOICE	custom invoice form	invoice.dbf
CSHIPPER	custom shipper form	invoice.dbf
Custom Invo	ice/Shipper Form (Version 7.73 & Higher)	
CINV*	custom invoice form	invoice.dbf
CSHIP*	custom shipper 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.

#### 15.4.2.6 Shipment Module

Standard Shipment Reports & Form				
SHIPMENT standard shipment report shipment.dbf				
BOL	Bill of Lading (BOL) form	shipment.dbf		
Custom Ship	Custom Shipment Reports & Form			
CUSSHP*	custom Shipment report	shipment.dbf		
CUSTSHP*	custom Shipment report	shipment.dbf		
CBOL*	custom Bill of Lading (BOL) form	shipment.dbf		

Note: Shipment reports automatically have a relation to the shipitem.dbf

#### 15.4.2.7 Receive Module

Standard Re	ceive Report	
RECLOG	narrow carriage receiver report	receive.dbf
RECLOGW	wide carriage receiver report	receive.dbf
Standard Re	ceive Form	
REC	shaded receiver form	receive.dbf
RECB	boxed receiver form	receive.dbf
Custom Rece	ive Report	
CUSTREC*	custom receiver report	receive.dbf
Custom Receiv	e Form (Version 7.72 & Lower)	
CREC	custom receiver form	receive.dbf
Custom Pogojy	e Form (Version 7.73 & Higher)	
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.

# 15.4.2.8 Purchase Module (& Min/Max)

	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*	custom purchase order report	purchase.dbf
CUSTPO*	custom purchase order report	purchase.dbf
CUSTMRP	custom min max report	partmast.dbf
CUSCTMRP	custom consolidated MRP (Single Bucket) report	partmast.dbf
Custom Purc	hase Form (Version 7.72 & Lower)	
CPO	custom PO forms	purchase.dbf
Custom Purc	hase Form (Version 7.73 & Higher)	
CPO*	custom PO forms	purchase.dbf

**Note:** Purchase Order reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and some to the Addrbook.dbf.

#### 15.4.2.9 Sales Quote Module

Standard Sales Quote Report			
QUOLOG	standard quote report	quote.dbf	
Custom Quot	e Report		
CUSTQUO*	custom quote report	quote.dbf	
Standard Sa	le Quote Form		
QUOTE	standard shaded sales quote form	quote.dbf	
QUOTEB	standard boxed sales quote form	quote.dbf	
Custom Quot	e Form		
CQUO*	custom sales quote form	quote.dbf	

**Note:** Sales Quote reports and forms automatically have a set relation into the Partmast.dbf, Partvend.dbf, and Addrbook.dbf.

MRP2	standard non-consolidated inf bucket MRP report	action.dbf,
		mrppart, mrps
MRP2BUY	standard infinite bucket buy report	Action.dbf
		partmast.dbf
MRP2CBPP	standard infinite bucket pre-shortage report	action.dbf,
		mrppart,
		purchase
MRP2CONS	standard consolidated inf bucket MRP report	mrp2cons.dbf
MRP2EXCS	standard infinite bucket excess inventory rpt	exectmp.dbf
		(tmp)
MRPSHRT2	standard infinite bucket issued shortage rpt	tempshrt.dbf
		action.dbf,
		mrppart,mrpsc
		routing,
		mrpstock,
PUSHPULL	standard infinite bucket push pull report	avail.dbf,
		mrppart, mrps
WOLOG	standard created Work Order report	salestmp.dbf
WPARREQ	standard wide carriage MRP report	partmast.dbf
ustom MRP	Penart	
CMRP	custom MRP report (version 7.71 and lower)	action.dbf
CLIEF	infinite bucket	
CUSMRP*	custom MRP report found in infinite bucket	action.dbf
CUSTCMRP	custom MRP report found in purchasing module	partmast.dbf
CUSTMRP*	custom MRP report found in infinite bucket	action.dbf

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

# 15.4.2.11 Sales Analysis Module

MAKECONM	<i>les Analysis Report</i> 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 Sales Analysis Report			
CUSSANA	custom sales analysis report	sanal.dbf	

# 15.4.2.12 Address Book Module

Standard Address Book Report				
ADDRESS standard address book report addrbook.dbf				
ADDRESSW	standard wide carriage address book report	addrbook.dbf		
Custom Addre	Custom Address Book Report			
CUSADR*	custom address book report	addrbook.dbf		

# 15.4.2.13 Stockroom Module

Standard Stockroom Reports			
AVABOM	standard parts available report	bomtemp.dbf	
AVABUY	standard buy report	bomtemp.dbf	
BOMBUILD	standard max no of BOMs that can be built	bomlist-cursor	
		partmast.dbf	
		bom.dbf	
CNVSBOM	standard stockroom I transaction report	bomtemp.dbf	
ISUSHORT	standard stockroom P and shippable report	stocktra.dbf	
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
1	UNISSUE	standard stock room U transaction report	stocktra.dbf
Cu	stom Stockı	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*	custom stock room report	stocktra.dbf
	CUSTSTK*	custom stock room report	stocktra.dbf
Use	CUSBOM*	custom stockroom I transaction report	bomtemp.dbf

# 15.4.2.14 Purchase Request/Quote Module

	rchase Request Forms			
REQUESTB	standard boxed PO request form	request.dbf		
REQUEST	standard shaded PO request form	request.dbf		
PURLOG	standard purchase request/quote report reque			
Custom Purc	hase Request Form			
CREQ*	custom PO request form	request.dbf		
Standard Pu	rchase Quote Forms			
POQUOB	standard boxed quote form	request.dbf		
POQUO	standard shaded PO quote form	request.dbf		
Custom Purc	hase Quote Form			
CPOQUO*	custom PO quote form	request.dbf		
	hase Request Report			
Custom Purc				
	custom Purchase Request/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.

#### 15.4.2.15 Serial/Lot Number Module

Standard Serial/Lot Number Form					
AUDITSN	standard Serial/Lot Audit report form auditsn.db				
SNLOG	standard master serial/lot number report	snlot.dbf			
SNDLOG	standard master serial/lot number report snlotdet.dbf				
Custom Seri	Custom Serial/Lot Number Form				
CAUDITSN	custom Serial/Lot Audit report form auditsn.db				
CUSTSN	standard master serial/lot number report snlot.dbf				
CUSTSN	standard master serial/lot number report	snlotdet.dbf			

# 15.4.2.16 Routing Module

Standard Routing Form					
ROUTE	standard Routing Module report routing.dbf				
ROUTEW	wide carriage Routing Module report	routing.dbf			
Custom Routing	Custom Routing Forms				
CUSTRTR*	custom Routing Module report form	routing.dbf			
CUSRTR*	custom Routing Module report form	routing.dbf			

# 15.4.2.17 Employee Time Tracking Module

Standard Employ	Standard Employee 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 Employe	Custom Employee Time Tracking Forms			
CUSEMP*	custom employee report form	employee.dbf		
CUSTIM*	custom time sheet form	emptimesh.dbf		

# 15.4.2.18 Inspection Module

Standard Insp	ection Forms	
INSPIL	standard inspection list report	inspect.dbf
INSPALL	standard all inspection report	inspect.dbf
INSPECT	INSPECT Standard inspection form	
Custom Inspec	tion Forms	
CUSINS*	custom inspection report	inspect.dbf
CINSPECT*	Custom inspection form	inspect.dbf

# 15.4.2.19 ECN Module

Standard ECN Form			
ECN	standard inspection list form	ecn.dbf	
Custom ECN Form			
CECN	custom inspection form	ecn.dbf	

#### 15.4.2.20 QuickBooks Module

Standard QuickBooks Export Form		
QBEXPORT	standard Invoice/Receiving Export report form	
Custom QuickBoo	oks Export Form	
CUSQBEX	custom Invoice/Receiving Export report form	

# **15.4.2.21 Audit Trail Reports**

Standard Audit	Trail Reports		
TRAIL	Standard Component	t Matches report form	temp.dbf
RAILBOMCOST	Standard Component	t Un-Matched report form	temp.dbf

**NOTE** the temp.dbf for the Audit Trail reports contains the following fields: Database, record, item, user, date, time, the\_field, oldcontent, newcontent, partno, descript, & onhand

# 15.4.2.22 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

### 15.4.2.23 Labels

LABEL(.LBX) LABEL DESCRIPTION

#### DBF FILE USED

Inventory L	abels (also see section 5.8.1)	
PARLABBAR	Standard parts labels w/barcode for one part	TmpTable.dbf
PARLABEL	std parts labels for all,prod,div,pn dot matrix pr	partmast.dbf
PARLAB2X	std parts labels for all,prod,div,pn laser pr	partmast.dbf
SHIPPER	standard shipper label, see 10.6	
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

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		
RECLABEL	Inventory parts labels for a receiver (dot matrix)	receive.db:
RECLAB2X	Inventory parts labels for a receiver (laser)	receive.db:
RECLABBOX	Receiver parts labels for a receiver RoHs Checkbox	Labprnt.dbf
RECLABQTY	Receiver parts labels for a receiver showing qty	Labprnt.dbf
RECLAB2X	Receiver parts labels	Labprnt.dbf
Custom Rece		
CRECLAB	custom label for inventory and receiver module	receive.dbf
CUSREC*	custom label for inventory and receiver module custom label for inventory and receiver module	receive.dbf
Address Boo	k Labels	
ADDRLBS	pin fed standard address label 15/16x3-1/2	addrbook.dl
ADDRLBM	laser standard address label 4"x2-7/8"	addrbook.dl
DDRLBMS2	pin fed standard address label 4"x2-7/8"	addrbook.dl
Custom Addr	ess Book Labels	
CUSADRXX	custom address labels (version 6.80 and higher)	addrbook.db
CUSTADRX	custom address labels (version 6.80 and higher)	addrbook.db
Sales/Work	Order Serial Number Labels	
LBLWO-SN	<pre>Tmptable=copy of partmast w/ModelNo=Serial#) and:</pre>	sales.dbf
		partmast.db
Custom Sale	s/Work Order Serial Number Labels	
CUSSNL*	See above for files.	
CUSTSNL*	See above for files.	
	Labels	
Stock Issue		stocktra.db
Stock Issue STKLAB	custom stockroom labels	Decenteration
STKLAB		becenerala
STKLAB Custom Stoc	k Issue Labels	
		stocktra.db

**NOTE:** Shipper labels and custom shipper labels are described in section 10.9.1

#### 15.4.3 Adding Bar Code Fonts to Custom Labels, Forms, and Reports

Barcodes can be added to pc/MRP labels, forms, and reports by installing pc/MRP's optional True Type bar code font into Windows Font file (Select Main, Control Panel, Fonts, Add, and enter the location of the barcode font A: for example). To modify a report or label use pc/MRP's report generator, select the related data base file, select the report, select the variable, select object such as part number, from the menu select Format, Font, and select the bar code font. 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:

"\*" + UPPER(ALLTRIM(PARTNO)) + "\*"

or

BAR39STR(PARTNO) (preferred)

The above example is for the variable PARTNO.

#### Note: Acceptable alpha-numbers values for the Bar Code reader are:

1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ .-. \$/+% and 'space'

#### Note: Bar code fonts may be listed as:

BC C39 3/1 HD Medium, BC C39 3/1 HD Narrow, BC C39 3/1 HD Wide, BC C39 3/1 Medium, BC C39 3/1 Narrow, BC C39 3/1 Wide, BC UPC HD Wide,

To create a custom part label with a bar coded part number you would.

- 1. Go to the configuration menu, select next window, select report writer
- 2. Select Label
- 3. Select PARLABTMP.DBF as your dbf file, click on Use
- 4. Select PARLABEL.LBX as your label, click on open
- 5. Save the PARLABEL.LBX as CPARLAB.LBX
- 6. Click on the part number object, from the menu select Format, Font, select BC 39 3/1 HD medium, regular, 26 points
- 7. Click on the part number object and change it from partno to read "\*" + UPPER(ALLTRIM(PARTNO)) + "\*" or

BAR39STR(PARTNO)

8. If you are creating sheet fed labels, you must put 'NOT EMPTY(PARTNO)' in the **Print When** box of the barcode text.

#### To print your custom part number labels

Go to the Inventory Module, select labels, select all part numbers, select custom

#### 15.4.4 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 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:

With pc/MRP versions 7.50A and higher, Sales Orders, Sales Quotes, 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'.

With pc/MRP version 8.13D and higher, Sales Orders, Sales Quotes, Invoice, Purchase, Purchase Quote, and Receiver **forms**, pc/MRP automatically sets a relation into the PARTMAST and ADDRBOOK database files.

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 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 command 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. The seventh command, ~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: Both the "~IN~" and "~OUT~" must be capitalized!

~IN~ THISAREA = SELECT () USE PartMast ORDER ByPartNo IN 0 && (in versions prior to 8.00, use INDEX, not ORDER) 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 a ".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-F10. 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\PCMRPW750\PARTMAST.DBF Alias: PARTMAST" This means the Partmast.dbf is open when running this report.

#### 15.4.6 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.

This section explains how to get a custom report to prompt for an additional filter 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:

#### pc/MRP versions 7.00C and higher

• Versions 7.00C and higher ship with a file named apndfil.fxp compiled into pcmrpw.exe and do not require it to be downloaded from Software Arts. Use Window's Notepad program to create an ASCII text file with the same name as the report you plan on running with the extension of ".ef". For example if you had a custom BOM report named "CUSBOMVE.FRX" and wanted to include only part numbers that started with "33-", you would either open or create a file in the pcmrpw directory named "CUSBOMVE.EF" with Window's Notepad program and include the following lines:

~IN~ DO APNDFIL WITH "PARTNO", "Enter part of the part number"

- The first line, ~IN~, tells pc/MRP to follow this set of commands before starting to print the report.
- The second line, DO APNDFIL WITH "PARTNO", "Enter part of the part number", tells pc/MRP to set up a filter on the field PARTNO and ask the user to "Enter part of the part number". Please note that the field name, such as PARTNO should be upper case and surrounded with quotation marks.
- Also, note that the filename is the report's FRX name followed by a '.EF'.

With pc/MRP versions 7.54D and higher, users can use numeric and or logical fields not just text fields. When users run the report, users 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 with version 7.54 and higher, 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
Enter a description:	Enter a description:
Field Contains	Field Contains
<u>O</u> K <u>C</u> ancel	Does not Contain Starts with is Equal to is Not equal to

For logical fields:

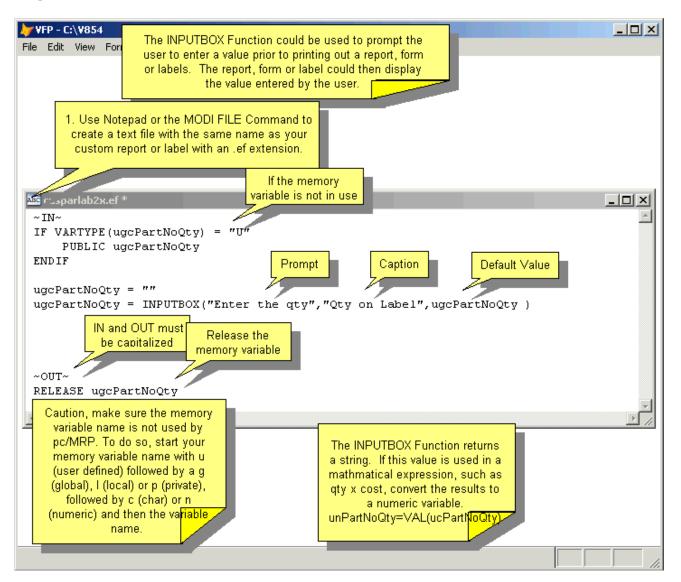
Additional F	Filter Condition	
X O Obs	solete parts?	
ОК	All  All No Cancel	

For numeric or date fields:

		Additional	Filter Condition
Additional	Filter Condition		Enter average cost:
Field is	Enter average cost:	Field is	Not equal to
	Not equal to		Less than Less than or equal to Equal to
	<u>O</u> K <u>C</u> ancel		Greater than or equal to Greater than

#### 15.4.7 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.

#### 15.4.8 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.

<u>Std Fxp File</u>	Custom fxp
EMSO.FXP	CEMSO.FXP
EMPO.FXP	CEMPO.FXP
EMREC.FXP	CEMREC.FXP
EMREQ.FXP	CEMREQ.FXP
EMINV.FXP	CEMINV.FXP
	EMSO.FXP EMPO.FXP EMREC.FXP EMREQ.FXP

The custom fxp files would be copied into the main pcmrpw directory.

#### 15.4.9 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")

If you use just enter: CONVERTFORM()

it will allow you to scroll and select the report to be repaired.

#### 15.4.10 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. 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 File 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 File 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 picture and frame are different sizes", choose Scale "Picture, 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)))" (without quote marks)
- 13. Press 'OK' twice
- 14. Choose File/Close to exit the Designer.

The new report/form/label is available in the drop-down area when you choose "Custom" for the report/form/label you are running.

#### 15.4.11.1 Address information layout used for forms (pc/MRP version 8.03 and below).

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(MVENDOR1,1,30) = VENDOR NAME SUBSTR(MVENDOR1,31,30) = CONTACT NAME SUBSTR(MVENDOR1,61,30) = VENDOR ADDRESS SUBSTR(MVENDOR1,91,15) = VENDOR CITY SUBSTR(MVENDOR1,106,2) = STATE SUBSTR(MVENDOR1,108,10) = ZIP SUBSTR(MVENDOR1,118,30) = COUNTRY

Therefore, the ZIP code is located 108 characters into the variable for a length of 10.

**Note:** In Excel the formula is: =MID(ZIP,215,10)

#### 15.4.11.2 Address information layout used for forms (pc/MRP version 8.04 and higher).

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(MVENDOR1,1,41) = VENDOR NAME 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)

# 15.4.12 Converting Custom Forms and Reports BILLTO and SHIPTO Addresses from 8.04 and below to versions 8.04 & above.

When updating pc/MRP from a version 8.03 or lower and you have custom forms or reports, then you will need to make the following changes:

NOTE: if all the customization was to add a logo, it is better to just re-create the form from the standard form and add the logo.

1) Open two copies of pc/MRP and in Option 24, copy the address data from the new forms to the same area on the custom forms.

2) Open your custom form, double click on the 'Page Header' bar and add the following array statement to the 'On Entry' expression area. You can also copy this from the new standard forms. Examples:

For Sales/Invoices: AddrArray("gaCorp", gcCorpInfoMain) + AddrArray("gaLeft", IIF(MSHIPLR="R", BillTo, ShipTo)) + AddrArray("gaRight", IIF(MSHIPLR="R", ShipTo, BillTo))

For POs/Receivers:

AddrArray("gaCorp", gcCorpInfoMain) + AddrArray("gaLeft", Vendor1) + AddrArray("gaRight", IIF(EMPTY(ShipTo),gcCorpInfoMain,ShipTo))

#### 15.4.13 Adding the RoHS information to a report, form, or label (or any logical field).

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".

#### 15.4.14 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.

#### **15.4.15 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.

#### **15.4.16** Zebra printer settings

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"x 3" and you may also have to adjust the label positioning on the Zebra's roller.

#### 15.4.17 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.

E pc/MRP for Windows - Version 8.50AD	×
File Edit View Format Tools Report Window Help	Setting a default printer for a form, report or
[ 🔚 🖳 🧑 🕒 🖣 🌌 Quick Report	check (usually only done for che <u>cks).</u>
Run Report	
Report Designer - custpowi	
Load Data Environment	
PAGE NO PAGE Private Data Session	IIF (MTYPE="REQ", "PO
DATETIME() Printer Environment	
Optional Bands	
1 Company III Data Grouping	UNIT ORDI
TIR (MT) TRMH DOR (C Data grouping	BÀ :ACCT#:
△ Page Header A Default Eont	To configure a custom report to default to a
0 MREPKEY . M. CURGROUP Edit Bands	specified printer instead of the default printer, select Report and Printer Enviroment. This will
Group Header 1:GRPCHNG( Insert ⊆ontrol	leave a check by the Printer Environment Menu
0 péno: ITEMN LEFT (d1) Properties	Option. Note: it is usually better to not set the
Detail     Detail	printer inviroment in a form and allow the user to select a printer or use the default printer
Report Corx GRPCHNG()	
<b>a</b>	
Save the printer environment	

E pc/MRP for Windows - Version 8.50AD	<u> </u>
File Edit View Format Tools Report Window Help	
Close Ctrl+F4 b J	
Save       Ctrl+S         Save As         Save As         Save As         Save As         Save As         Page Setup         Print Preylew         Print Preylew         Select File and         Page Header         0         Image Setup         Page Header	
△ Group Header 1:GRPCHNG()	
0 ponce   ITEMN LEFT (dl. SUBSTR (DESCRIPT, 1, PARTNO ACCOUNTING COST ONORDER	
▲ Detail	
0Sabtotal.	
Changes the page layout and printer settings	1.

# And finally:

File Edit View Format Tools Report Window Help         If E Image Ima
Report Designer - custpowithrev.frx      Page Setup      Page Setup      Page Setup      Page Header      Distriction      Page Header      Districion      Page Header
Page Setup Page Setup
Report Corx     GRPCF       Orientation     Margins (inches)       Left:     1       Bottom:     1       Bottom:     1       OK     Cancel
Click on the Printer Button and select the printer to be used for this form.

# **15.5 Exporting Raw Data out of pcMRP**

#### 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 into more widely uses 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 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 use Option 23 to extract the data from pc/MRP into Excel (XLS), Comma Delimited (TXT) or Data Table (dBase III DBF). Enter a name for your new file. Select the fields you wish to include. Note: Excel and ASCII txt files can only hold the first 254 characters from a Memo Field (PO comments, sales Comments, BOM reference designators, etc.). Only dBase III files can contain the unlimited content of the Memo Fields.

#### 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. Note: Excel and ASCII txt files can only hold the first 254 characters from a Memo Field (PO comments, sales Comments, BOM reference designators, etc.). Only dBase III files can contain the unlimited content of the Memo Fields.

#### 15.5.4 Importing pc/MRP data with unlimited Memo Fields into Access and then exporting it into Excel

First extract the data from pc/MRP into dBase III format as per 15.5.2 or 15.5.3. Then follow the instructions listed below to open the DBF and DBT in Access.

- 1. Start Microsoft Access.
- 2. Select Blank Database and press OK.
- 3. Whatever name Access assigns to this database is fine. Simply press <u>C</u>reate.
- 4. Now select <u>F</u>ile, Get External <u>D</u>ata, and <u>I</u>mport Data.
- 5. For **Files of type:** select **dBase III**. If you do not have the option to select **Files of type dBase III (.dbf)** then you will have to get your Office 97 CD and install the drivers.
- 6. For Look in: select the location where you put your DBF and DBT.
- 7. Finally, once you have tracked down the location of both files double click on the DBF file and the importing will begin.
- 8. You can now close the importer.
- 9. You can now either export this file as an Excel spreadsheet or perform your tasks in Access.

**NOTE:** You can export parts in pc/MRP version's 8.50 and higher as described above. pc/MRP versions 8.40 and lower can only export parts using MS Access query as the record length exceeds the MS Access limit.

#### 15.5.5 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.

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# **15.6 Creating Practice and What if Directories**

Test copies allow users to do a number of things. For example, enter new sales or work orders for the coming month and then run a "Parts required to be ordered report", in the Purchasing Module. This would allow users to find the total dollar value of the inventory that would need to purchase if those orders were implemented.

#### 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 the entire pcmrpw folder and paste the pcmrpw into an alternate location.

- 1. find where pcmrp currently resides
- 2. highlight the pcmrpw folder
- 3. press CTRL-C to copy the pcmrpw folder
- 4. find the local MY DOCUMENTS or a TEMP folder and double click on that folder
- 5. Press CTRL-V to paste the pcmrpw folder into the alternate folder

Users can now start the practice or what if copy by double clicking the pcmrpw.exe found within the alternate folder.

Users must be certain to not confuse themselves with the **REAL** copy vs. the **TEST** copy.

# NOTE: As of Version 7.90 and above, you may modify the background of the pc/MRP logo by doing the following:

- 1. Go to Configuration, Settings & Utilities, Option 1
- 2. Change the Division/Dept line to the word 'PRACTICE'
- 3. Save and exit the program.

You now have a red background for the pc/MRP logo and the word PRACTICE underneath.

#### 15.6.2 Generating A What If or Practice Directory for pc/MRP using a Batch File

What if directories and practice directories can also be generated by creating and using the batch file, "WHATIF.BAT", listed below.

rem \* whatif.bat md\whatif copy c:\pcmrpw\\*.\* c:\whatif /v

This batch file will make a new directory called what if, copy your current pc/MRP files into the new directory. Users could then create 2 icons:

- 1. A "Load What if" Icon or shortcut to load the 'what if' copy of pc/MRP. This shortcut would be to the whatif.bat
- 2. A "Run What if" Icon or shortcut to run the new copy of pc/MRP. This shortcut would be to the 'whatif\pcmrpw.exe' directory.

# **15.7 Windows Server Administration**

#### 15.7.1 Viewing users who are logged on

The following commands 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 commands 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

For Windows NT

- 1. Select Server Manager
- 2. Double click on the server desired
- 3. Select in Use

For Windows 2000

- 1. Select Computer Management
- 2. Select System Tools
- 3. Select Shared Folders
- 4. Select Sessions
- 5. Select Open Files

#### 15.7.3 Monitoring network performance

The following commands 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 commands 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.
- For pc/MRP version 7.90 and lower repeat the above steps for the following files:
  - o Partmast.dbf and .frt
  - Receive.dbf and .frt
  - Purchase.dbf and .frt
  - o Addrbook.dbf and .frt
  - o Sales.dbf and .frt
  - o Invoice.dbf and .frt
  - Stocktra.dbf and .frt
  - o Transact.dbf and .frt
  - o Bom.dbf and .frt

#### 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**".

# **15.8 Using VNC Remote Access**

#### 15.8.1 Overview

A program named VNC can be used for the following purposes:

- Allow you to access a computer at work to use pc/MRP or any other application.
- Allow a remote location to access a computer at work to use pc/MRP.
- Allow technical support at Software Arts to access and trouble shoot pc/MRP.

#### **15.8.2 Requirements**

Both the PC at work (should be a workstation and not the server) and the remote PC must have WinVNC installed, and both must have an available internet connection.

#### **15.8.3 Installation**

You can download VNC from pc/MRP's website at <u>http://www.pcmrp.com/download.htm</u>. Scroll down to and download the file 'vnc-4.0-x86\_win32.exe' into a folder named VNC. (This file is also on the newer install CDs sent out by Software Arts, Inc.) You may at this time install the VNC server by double clicking on the vnc-4.0-x86\_win32.exe file and the files will extract it to a folder named C:\Program Files\RealVNC\VNC4. Install and set-up the VNC Server program. The default settings screen may be displayed. Enter a password and leave the remaining settings in their default mode.

#### 15.8.4 Running VNC

To allow pc/MRP access to a computer, click on Window's Start Button, select Programs, select VNC, and select Run VNC (UserMode). VNC will start and display a small icon containing the letters VNC in your lower task bar. Placing your cursor over the icon will display your computer's IP address. The remote computer trying to access this computer will need both the password and the IP address.

To access a remote computer, click on Window's Start Button, select Programs, select VNC, and select Run VNC Viewer, enter the remote computer's IP address and password when prompted. If you are running over a slow dial up line, you can speed up screen displays by selecting Options, and check Restrict pixels to 8 bit.

#### 15.8.5 Ports for VNC

VNC & Ultra VNC require ports 5800 and 5900 to be open on routers connected to the Internet.

# **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

#### 15.9.2.1 Outside Manufacturing, Method 1 (Convert parts to assemblies)

Use pc/MRP's Configuration Module to set Invoice/Receiving Modules increment and decrement onhand quantities.

Construct the BOMs include both your part numbers and the outside assembly labor. Enter the labor as a part number into inventory but fill in the Labor/Assy/Labor field as "L".

When finished products are to be assembled by an outside mfg Place a PO for the outside assembly labor PN

When the finished products are received:

Receive the finished assemblies under the outside assembly labor # Use the Convert Parts to Assemblies Option to change the individual parts into finished assemblies.

For example, if your business consisted of purchasing raw tweezers, having them Teflon coated by an outside manufacturing operation, and then reselling them as a Teflon coated tweezers, you would enter the raw tweezers into inventory as one part number, 00-000-0001 and the Teflon coating outside labor cost per tweezers as another part number, 00-000-0002. You would then enter a BOM, 00-000-0003 for the Teflon coated tweezers, which would consist of part numbers 00-000-0001 and 00-000-0002. Rolling up costs in inventory or Exploding BOM 00-000-0003 would total up and load the cost of the finished tweezers into inventory.

Purchasing and receiving x amount of raw tweezers would result in an onhand quantity of x raw tweezers, 00-000-0001.

Purchasing would then issue a PO for x amount of labor, PN 00-000-0002 and send the raw tweezers to the outside manufacturer. When the finished tweezers are returned, they would be received as PN 00-000-0002 since this part is classified as labor and not a part no change in the on hand quantity would occur.

Use the "Convert Parts to Assemblies" Option in Stock Room Module to convert these parts into x amount of finished Teflon coated tweezers 00-000-0003

### 15.9.2.2 Outside Manufacturing, Method 2 (Create work orders/issue parts)

This method makes 3 assumptions:

pc/MRP's Inventory Adjustment Method, Configuration, Settings and Utilities Method Option 4 is set to **A**. pc/MRP's Accounting Method, Configuration, Settings and Utilities Method, Option 10 is set to **Perpetual**. You are actively running pc/MRP's 'Cost Roll Up' function to keep the assembly costs up to date.

Create an "Outside Labor" Part Number, to cover the cost of assembly labor and material supplied by the vendor.

Create a BOM for the finished sub-assembly, include the component parts you supply the vendor and the "Outside Labor" Part Number.

Create a PO for the Outside Labor Part Number.

Create a work order for the job if you are building to stock or an order entry sales order for the job if you are building to a customer order. If the Work Order is required to fill sales orders, make the Work Order consumable whose date required is prior to the Sales Order's date required.

Use pc/MRP's Stockroom Module's 'I type transaction to Issue the sales/work order to manufacturing. This will move the component parts from on hand into WIP.

Give the component parts and the PO to the vendor.

When the finished products are received:

Use pc/MRP's Receiving Module to receive the PO for the Outside Labor. pc/MRP will debit Inventory and credit Accounts Payable when accounting enters an I type accounting transaction or the receiver is exported over to QuickBooks.

Use pc/MRP's Stockroom Module to Receive back the completed sub-assembly. This will decrease qty in WIP and will increase the on hand quantity of the finished sub-assemblies.

If you created a sales order for a customer, invoice the sales order. This will decrease the quantity of the finished assembly. pc/MRP will debit COGS and credit Inventory when accounting enters an "O" type transaction against the invoice or the invoice is exported to QuickBooks. (See section: 14.4.1.2.)

If you were to run a purchasing consolidation report, select exclude work orders if these parts are being built for existing sales orders.

#### 15.9.2.3 Outside Manufacturing, Method 3

Use pc/MRP's Configuration Module to set Invoice/Receiving Modules increment and decrement onhand quantities (Inventory adjustment method = A)

Issue a PO for the assembly to be built by an outside manufacturer. With pc/MRP for Windows version 6.49 AB or higher, receiving assemblies will trigger the prompt, "Item you are receiving is an assembly, Increase the onhand quantity of the assembly or Convert parts to assemblies ?". If you press, "Convert parts" the onhand quantity of the assemblies will be increased and the related parts in stock will be decreased based on the assemblies BOM. If you press, "Increase", the onhand quantity of the assemblies will be increased, the onhand quantity of the assemblies of incorrectly lowering the average cost of the assembly. If you use this method, you must use standard costs to value your inventory.

#### 15.9.2.4 Outside Manufacturing, Method 4

There is an assumption here that you do not stock the parts that the contractor supplies. If this is the case (otherwise you would just supply the parts), you can:

- 1. Add the parts the vendor supplies to inventory as inventory part numbers. Check these parts as FLOOR STOCK, this way they will not be issued Set the cost to \$0.00 for each of these parts.
- 2. Create an outside labor part number Its cost should include vendor's labor and material cost.
- 3. Add the \$0.00 floor stock parts and the outside labor partnumber to the BOM

From then on:

- 1. Create a work order for the assembly
- 2. Issue the work order and give your parts to the vendor
- 3. Create a PO for the vendor to cover his material and labor cost
- 4. When you receive back the finished assemblies from the vendor: Use the Receiving Module to receive back the PO Use the Stockroom Module to receive back the finished assemblies

This is not a good solution if you use those same floor stock items in other assemblies where you have to buy those same parts.

#### **15.9.5** Consignment Inventory

One method to handle consignment and your own inventory, would be to assign the first 4 characters 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:

If the name of your company is Jurong Manufacturing

If 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 resister.

You could assign your part number for the 5-ohm resister 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.

#### **15.9.6 Return Material Authorizations**

### 15.9.6.1 pc/MRP's method 1 to handle RMA(s) An assembly is returned, rebuilt and sent back to customer

#### 1. <u>This step is optional.</u>

- 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 number 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). 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.

**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".

- 4. 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.
- 5. 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 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
- 6. 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.
- 7. 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

#### 15.9.6.2 pc/MRP's method 2 to handle RMA(s) Repair an assembly that you do not build

- 1. Create a Sales Order with line item 1 as a "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 1.
- 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, at the time of entering a Sales Order line item, create a Stockroom 'B' transaction moving the qty to a RMA stores area (you have 10 extra stores areas of which one could be re-named to 'RMA'.) Then when you Invoice the Sales Order to ship the repaired item, you would invoice from the RMA stores area instead of the normal 'Stores' area.

#### **15.9.7 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.

#### 15.9.8 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
- 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.
- 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.

### 15.9.9 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**.

# 15.10 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 **NOT** checked. Write down the name and location of the file to be exported.
  - o C:\customer.csv
  - o 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. (Select Configuration, Settings and Utilities, Next, then select option 40.) Importing data into pc/MRP is covered within the manual in section 15.11.1

#### 15.10.2 Exporting parts and addresses from QuickBooks into pc/MRP

See chapter 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.

# Please note that pc/MRP feels that you have the best chance of a successful import in you always save the Excel file as a CSV file, preferably with column headings.

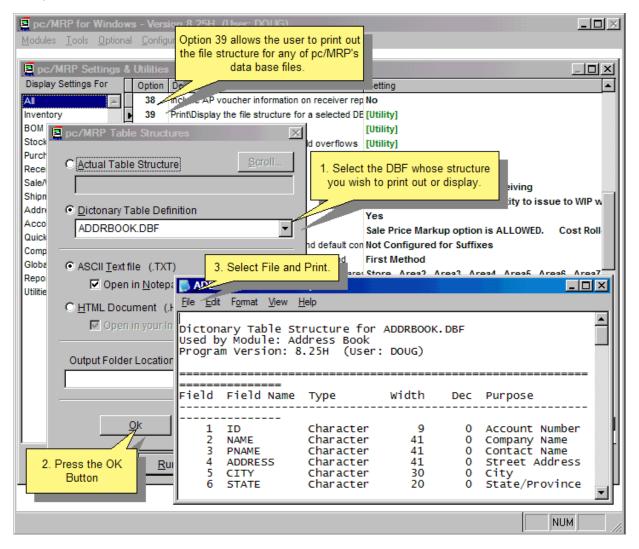
This chapter is specifically written for importing data in this order:

- 1. Settings & Utilities, Option 39 overview
- 2. Settings & Utilities, Option 40 overview
- 3. <u>ADDRBOOK</u> for customer and vendor information <u>http://pcmrp.com/mrp101/importcsvaddroverview.htm</u>
- 4. <u>PARTMAST</u> for inventory parts and costs, etc. <u>http://pcmrp.com/mrp101/importcsvpartoption39.htm</u>
- 5. <u>PARTVEND</u> to relate an inventory part with one or more vendor's price and quantity breaks <u>http://pcmrp.com/mrp101/importpartvendvendorstab.htm</u>
- 6. <u>BOM</u> for defining an assembly and sub-assembly structure using the previously entered inventory parts <u>http://pcmrp.com/mrp101/importcsvbomoverview.htm</u>
- <u>SALES</u> to add current open and closed sales orders <u>http://pcmrp.com/mrp101/importcsvsaleoverview.htm</u>

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.

### 15.11.1 Settings & Utilities, Option 39 overview

**Option 39** in the Settings & Utilities module will allow you to print out file structures for all of pc/MRP's data tables. Use these names and field lengths when creating the import data file. (See the address book example below)



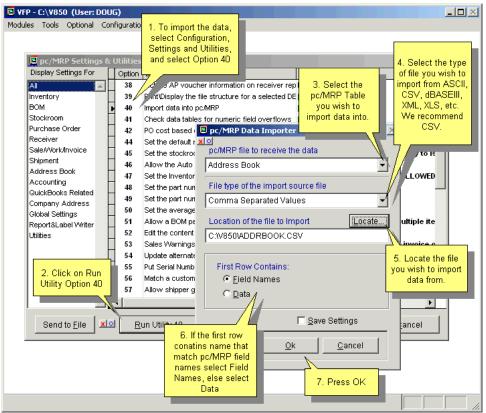
Please note that the 'TYPE' column should be the same in Excel as listed in the Option listing. Also, the Excel column width should be the same as listed in the Option 39 listing.

Types consist of:

- Character
- Numeric
- Logical
- Date
- Memo (only for saving as DB-III files)

# 15.11.2 Settings & Utilities, Option 40 overview

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)



Dates should be imported with a four-digit year. Dates imported without a four-digit year will not work.

MODIFICATION HISTORY:

- pc/MRP versions 7.93B and higher:
  - Character fields are automatically left-justified.
  - Automatically removes blank records in resultant pc/MRP DFB table.
  - o 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.
- pc/MRP version 8.02E and higher added the following new feature:
  - 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.
- pc/MRP version 8.32 and higher:
  - Adding the option to import 2003 XML files from Excel.
- pc/MRP version 8.43F and higher:
  - Adding the option to import Sales Orders from a ShopSite shopping cart.
  - $\circ$   $\;$  Added the option for each user to save their importer settings .
  - Importing Sales, Purchases, Invoices or Receivers will insert address information from the AddressBook.
  - o Import as a CSV (comma separated values) file.
  - Save the Option 40 import mapping as a template.

### 15.11.3 Address Book for customer & Vendor information

### 15.11.3.1 Step 1 Use Settings & Utilities, Option 39 to print out the address book file structure (15.11.1).

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.

VFP - C:\V850 (U Modules Tools Opt	ional Con	figuration					on 39, and BOM.DBF e Structure as shown b	
Display Settings For		n Deerry			Setting	_		
A	39			re for a selected DE				
🔄 pc/MRP Table 9	Structures		×		[Utility]			
x o	oci accares			ric field overflows	[Utility]			
C Actual Table	Structure		Scroll		Vendor Pric	e List		
				ea	Prompt for t	he area i	when receiving	
					Import Cost	: Average	e Quantity to is	
O Dictonary Tal	hle Definit	ion		ion	Yes			
ADDRBOOK							otion is ALLOWED	
ADDRBOOK		50\ STDI I		bize and default cor DDRBOOK.TXT - N		ad for S	uffivae II	
						n TavtE	X Plugins Window ?	X
ASCII <u>T</u> ext fil			-				-	
🔽 Open ii	] 🖬 🚍			48 🖸   🖉 🤤	· m *8	22	🖪 🗟   🚍 1 🗍	🦉   "
C HTML Docur	🔚 mrp10	1index.htm	🔀 🔚 new 2 🔀	🔚 importesvpartlist	txt 🗷 🔚 imp	ortasyborr	n.txt 🗵 😑 ADDRBOOK.T>	кт 🖂 🔡
Dpen ii	1							
	2	Dicton	ary Table St	ructure for	ADDRBOOK	DBF		
Output Falder	3	Used b	y Module: Ad	ldress Book				
Output Folder	4							
	5							
I								
	6	Field	Field Name	Type	Width	Dec	Purpose	
<u>Q</u>	7							
ī								
	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 chars	; ! Ln : 1	Col:1 Sel:0(0	bytes) in 0 ranges		Dos\Win	ndows ANSI	INS //

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

# 15.11.3.2 Step 2 Format the Address Excel worksheet and save as a CSV File with or without column headers

This is an example where the first row contains field names:

1. If yo impo data fm xIs sp sheet, on File, and s your x	rting om an oread , click , Open :elect	header row Field Names to autom columns to p later step. can be di Configuration Option 39 ddrbook: just	ally you can insert a containing the pc/M atically map the xls pc/RP Field Names pc/MRP Field Nam splayed/Printed from n, Settings and Utili Else the first row c t contain data.	1RP 3. s 3. ata F nes c n nu ties, w	Right click at the top each column, select ormat Cells and set th correct catagory (text o imeric). Right click ag and set the column's ridth to the size listed option 39 for that field	
a text 9 char wide. p will a	A B 1 id name 2 ABC001 ARRO 3 MOU001 MOUS 4 DIG001 DIGI-K 5 ALL001 ALLIET N Addrboo Read Name (Company Name) should be in a text column dd it if sing	C pname W JOE CARTRIGH ER DON JOHNSON EY BILL WILLLIAMS DOUG SMITH DOUG SMITH Characters wide.	444 ALLIED WAY ess should be ext column 41 acters wide. e is also an idress2 41	ARROW CITY MOUSEVILLE DIGITOWN ALLIED CITY Sulf- 81200 ty Sulf- 81	MO 45600 465-456 CA 78900 789-789-7 AL 44400 444-444 Zip shoud Phone be in a text in a text	4560 VEN 7890 VEN 4440 VEN Shoud be in a text column 3

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. It is OK to just select "**YES**" each time.

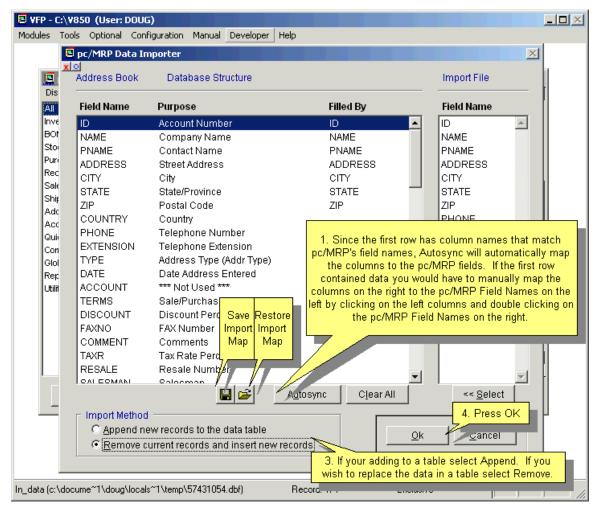
# 15.11.3.3 Step 3 Use to Option 40 and importing the address book information.

Locate the **addrbook.csv** file you just saved:

VFP - C:\V850 (User: DO Modules Tools Optional C	
pc/MRP Settings for      Display Settings For      Inventory     BOM     Stockroom     Purchase Order     Receiver     Sale/Work/Invoice     Shipment     Address Book     Accounting     QuickBooks Related	Option       of file you wish to         38       A & AP voucher information on receiver rep       3. Select the         39       P int/Display the file structure for a selected DE       pc/MRP Table         40       Import data into pc/MRP       pc/MRP Table         41       Check data tables for numeric field overflows       pc/MRP Data Importer         42       PO cost based       pc/MRP Data Importer         44       Set the default r       pc/MRP file to receive the data         45       Set the stockroot       Address Book         47       Set the part num       File type of the import source file
Company Address Global Settings Report&Label Writer Utilities 2. Click on Run Utility Option 40	49       Set the part nun         50       Set the average         51       Allow a BOM pe         52       Edit the content         53       Sales Warnings         54       Update atternate         55       Put Serial Numb         56       Match a custom         57       Allow shipper g             50       Eield Names         C       Data
Send to <u>File</u>	Run Utilize to     Save Settings       6. If the first row conatins name that match pc/MRP field names select Field Names, else select Data     Qk     Cancel       7. Press OK

Make sure that you have selected Field Names for "First Row Contains". Now press the **OK** button.

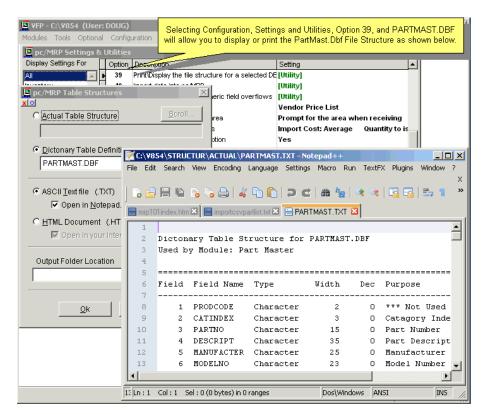
#### 15.11.3.4 Step 4 Import the data into pc/MRPs Address Book.



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. 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.

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!

15.11.4.1 Step 1 Use Settings & Utilities, Option 39 to print out the inventory file structure.



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, a person should try to import as many fields as possible to save time. Listed below are a few of the key fields in Inventory and their use.

PARTNO: This is your part number field. KEY FIELD (Limited and truncated to 15 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 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 Boolean field is used in conjunction with the PART\_ASSY field as described below.

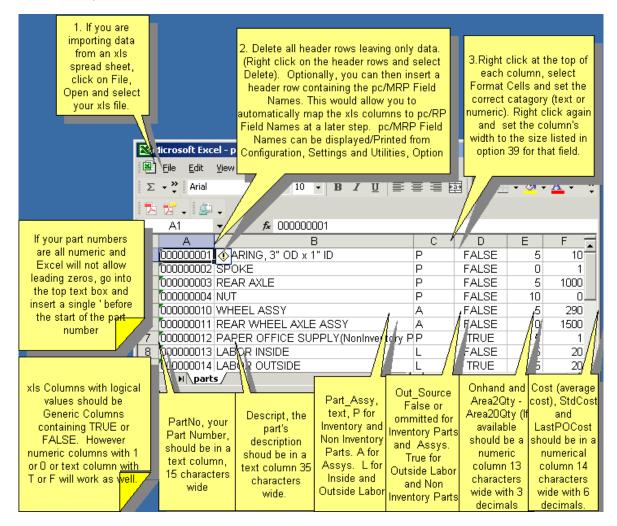
Part – Inventory: (part\_assy = P, outsource = .F. or False in Excel) Part – Non Inventory: (part\_assy = P, outsource = .T. or True in Excel) Assembly: (part\_assy = A, outsource = .F. or False in Excel) Labor Inside: (part\_assy = L, outsource = .F. or False in Excel) Labor Outside: (part\_assy = L, outsource = .T. or True in Excel)

**ALTPARTNO**: This field is a Memo field and is unlimited in length. This field contains additional comments or a longer description. If longer than 254 bytes, see section 15.11.8 to import the Inventory parts.

The rest of the fields can be imported if the data exists but they are not essential fields.

## 15.11.4.2 Step 2 Format the Inventory Excel sheet and save as a CSV file with or without column headers

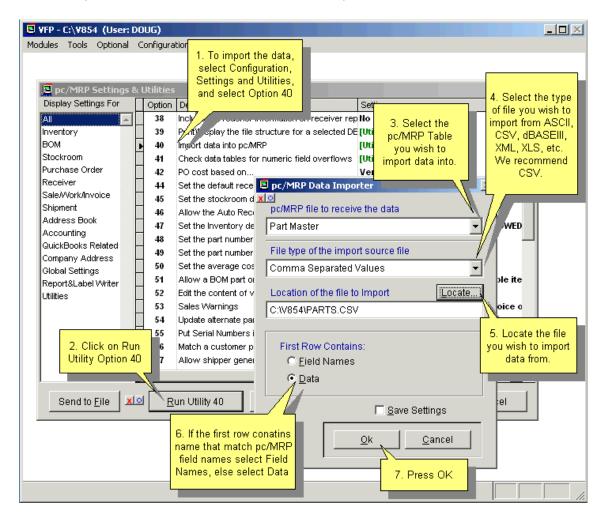
This is an example where the first row contains data.



When you save an Excel file as a CSV file, Excel gives you several warnings. It is OK to just select "YES" each time.

### 15.11.4.3 Step 3 Use Option 40 to import part number information.

In this screen, you would need to select the **Data** as the option for **First Row Contains**.



Press OK to continue to the next screen for Option 40 import.

# 15.11.4.4 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.

Image: Part Master       Database Structure       Import File         Part Master       Database Structure       Import File         Part Master       Database Structure       Import File         Part Master       Database Structure       Import File         Part Master       Database Structure       Import File         Part Master       Database Structure       Field Name         Port       PRODCODE       *** Not Used ***       File D_1         BoM       CATINDEX       Catagory Index       Field D_1         Part Maxier       Part No       Part Number       Field D_1         Purch       DESCRIPT       Part Description       FIELD_1         Recei       MANUFACTER       Manufacturer 1       Stock on the equivalent pc/MRP Field.       FIELD_4         Shipin       DRAWSIZE       Drawing size       2. Double click on the equivalent pc/MRP Field.       FIELD_4         Quick       COST       Average Cost       PORATIO       Purchase Orde       Save Restore         Quibitite       ONDEMAND       Quantity in Stoc       Save Restore       If the first row has column names that match pc/MRP's field names, Autosync will automatically map the columns to the pc/MRP fields         WiPQTY       Quantity in WIF       Map       Map       Map </th <th>-</th> <th>Optional Confi</th> <th>-</th> <th>per Help</th> <th></th> <th>a</th>	-	Optional Confi	-	per Help		a
Disple     Field Name     Purpose     Filled By       Invert     PRODCODE     **** Not Used ****       BOM     CATINDEX     Catagory Index       BOM     CATINDEX     Catagory Index       Purch     DESCRIPT     Part Number       Part Description     FIELD_1       Recei     MANUFACTER       MANUFACTER     Manufacturer 1       MODELNO     Model Number       DRAWNIGNO     Drawing numb       Addre     OST       Acco     RevLeVEL       Quick     COST       Comp     PORATIO       POUNIT     Purchase Orde       PORATIO     Purchase Orde       ONATIO     Quantity in Stor       ONORDER     Quantity on Or       ONDEMAND     Quantity on De       Map     Map	xo			_	_	
Inverr       PRODCODE       *** Not Used ***         BOM       CATINDEX       Catagory Index         Stock       PARTNO       Part Number         Purch       DESCRIPT       Part Description         Recei       MANUFACTER       Manufacturer 1         SaleA       MODELNO       Model Number         Addre       DRAWNISZE       Drawing numb         Acco       Revision Code       COST         Quick       COST       Average Cost         Comp       PORATIO       Purchase Orde         PONNIT       Purchase Orde       Column to map the         Columit       UNIT       Stocking/Sales         ONORDER       Quantity in Sto       Save Restore         ONDEMAND       Quantity on Or       Save Restore         ONDEMAND       Quantity on View       Map	Displ:			Filled By	·	
MAXQTY     Maximum Stockr a country       Image: Time (in w) okc       Image: Time (in w)	All PRO Invern PRO BOM CAT Stock PAF Purch DES Recei MAN SaleA MOI Shipm DR/ Addre DR/ Add	CODCODE TINDEX RTNO SCRIPT NUFACTER DELNO RAWSIZE RAWINGNO VLEVEL DST UNIT RATIO IIT IHAND IORDER IDEMAND PQTY NQTY XQTY IME	*** Not Used *** Catagory Index Part Number Part Description Manufacturer 1 Model Number Drawing Size Drawing numb Revision Code Average Cost Purchase Orde Stocking/Sales Quantity in Stor Quantity On Or Quantity On De Import Quantity On De Import Quantity In Stor Quantity On De Import Quantity In Stor Quantity On De Maximum Stocking agu	FIELD_1 FIELD_2 uble click on equivalent (RP Field. sat for every to be imported Map Map Map Autosync Clear All	has column ich pc/MRP's utosync will y map the cc/MRP fields	t file

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!

## 15.11.4.5 This screen is Step 4 if you are importing with field names in the first row

The screen shown below shows that the CSV file has column headings and in this case you can select the **Autosync** button and then manually match the names that are different spellings for the same data.

pc/MRP for Modules Tool		<b>ion 8.30B (User: D</b> uration Ma <u>n</u> ual De <u>v</u>	<b>OUG)</b> reloper <u>H</u> elp	Note: If you saved import file as an File (4.0 in 8.21 an	Excel Id lower		
Display Setting All Inventory BOM Stockroom Purchase Orde Receiver	▲ 31 32 33 34	Description Change Password Check inventory for in Set the eMail default s pc/MRP Fields		using the Select E	lames , etc. ave to e fi <mark>elds</mark> Button.	ule to chan RB; 3 R&D Cost Comp	ige access right
Shipment Address E Accountin	Part Master Data	Pase Structure	_	Filled By		Import File	
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Send		Revision Code Average Cost w records to the data irrent records and in	a table sert new recor	osync Clear All	<u>O</u> k / records	Click the imp <u>C</u> ance if pc/MRP a	Iready contains
In_data (c:\pcmi	rpw830\parts.dbf)			remove all part			

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.

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!

15.11.5.1 Step 1 Use Sett	tings & Utilities, Optio	n 39 to print out the pa	artvend file structure.
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	1	KEYID	Integer	4	0	-	Record
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10	3	PREFER	Integer	4	0	Prefere	
11	4	VENDID	Character	9	0	Vendor	Addres
12	5	VENDNAME	Character	41	0	Vendor	Name
13	6	VENDPHONE	Character	25	0	Vendor	Phone 💌
							►
28 Ln : 14	Col : 61	Sel : 0 (0 bytes) in	0 ranges	Dos\Wind	lows A	NSI	INS

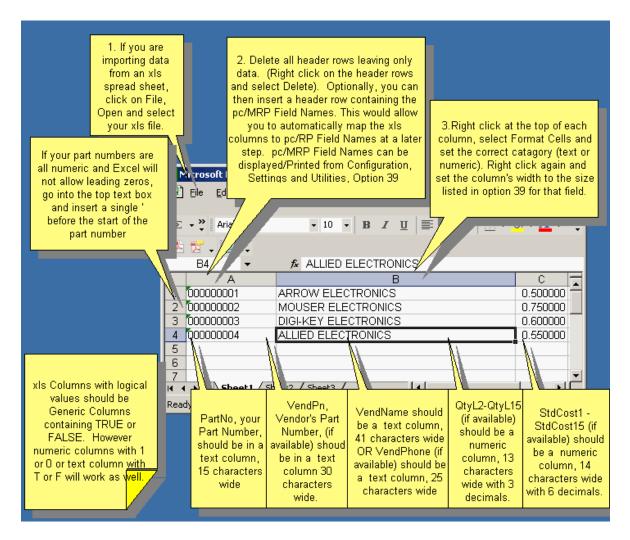
The **PartVend** table is new in versions 8.50AF, 8.54M and higher. This table allows for an unlimited number of vendor and price quantity breaks. These versions will use the vendor name or phone number to insert into the vendor fields of the partvend table. The PARTVEND table contains Keyld, PartNo, VendId, StdCost1-15, QtyL2-15. The Keyld 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**.

# 15.11.5.2 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.

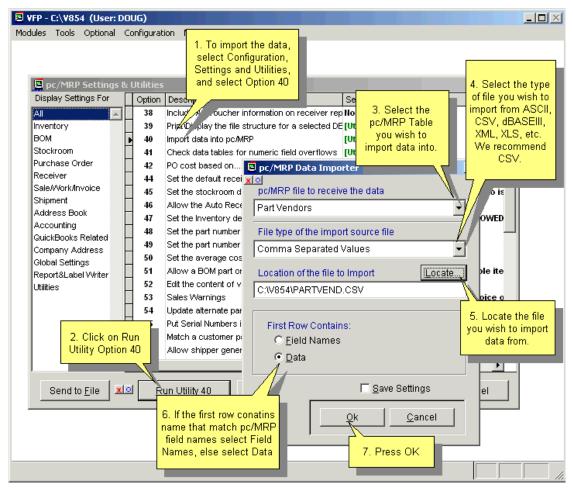
You always have an option to use or not use column headings. If not, you will not be able to autosync the data and must manually map the excel columns to the pc/MRP data field names. Use Option 39 to get field names for the PARTVEND table and the **Option 40** to import.



When you save an Excel file as a CSV file, Excel gives you several warnings. It is OK to just select "YES" each time.

## 15.11.5.3 Step 3 Use Option 40 to import the data.

Since the first row of the Excel spreadsheet does not contain column headers, you will select **Data**, for "First Row Contains".



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, the additional fields for Vendor's part number, etc. are only available in pc/MRP versions 8.50AF, 8.54M and higher.

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

×	o Part Vendors	Database Structure		Import File
pc/	Field Name	Purpose	Filled By	Field Name
Display All	PARTNO	Part Number	FIELD_1	FIELD 1
nvento BOM Stockrc Purcha: Receive Sale/W Shipme Addres Accour DuickBi Compar DuickBi Compar Diobal \$ Report Hillities	PREFER VENDID VENDNAME VENDPHONE VENDCURNCY QTYL2 QTYL3 QTYL4 QTYL5 QTYL5 QTYL6 QTYL7 QTYL6 QTYL7 QTYL8 QTYL9 QTYL10 QTYL11 QTYL12 QTYL13 QTYL14 QTYL15	Level 2 Qty Level 3 Qty Level 3 Qty Level 4 Qty Level 5 Qty Level 6 Qty Level 6 Qty Level 7 Qty Level 8 Qty Level 9 Qty Level 10 Qty Level 10 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 12 Qty Level 14 Qty Level 14 Qty Level 14 Qty Level 15 Qty	columns to the pc/MF	c/MRP's ync will p the
Se	STDCOST1	Level 1 Cost	FIELD_3	
	<ul> <li>Import Method</li> <li>O Append net</li> </ul>	w records to the data table	Autošync Clear All	4. Press OK

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.

# 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!

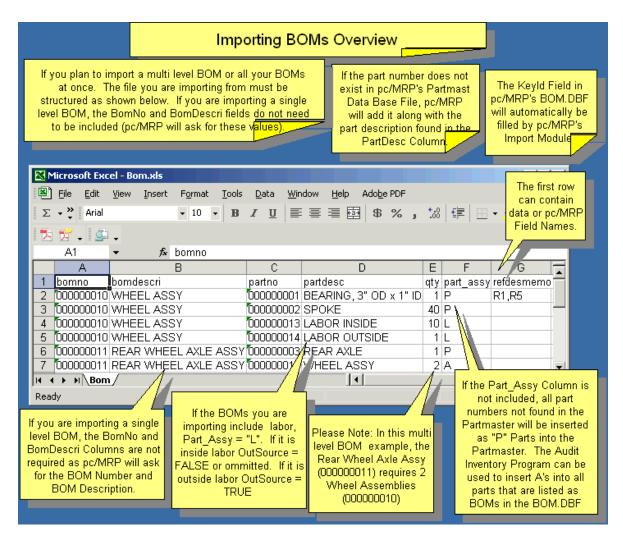
### 15.11.6.1 STEP 1 Use Settings & Utilities, Option 39 to print out the BOM file structure.

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 <u>special attention</u> later.)

VFP - C:\V854 (User: D Modules Tools Optional pc/MRP Settings & U	Configuratio					ption 39, and BOM.DBF will allow Structure as shown below.
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Ŭ		===				
Output Folde 6	Field	Field Name	Type	Width	Dec	Purpose
7						
8	1	BOMNO	Character	15	0	BOM Number
9	2	BOMDESCRI	Character	35	0	BOM Description
10	3	PRODCODE	Character	2	0	*** Not Used ***
11	4	CATINDEX	Character	3	0	*** 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 📃
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Please note the field names as they are useful when selecting the Autosync option when importing with **Option 40**.

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



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.

# 15.11.6.1.2 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 information as pictured above simply presented in a different format.

BOM NUMBER	:000000011 REV:	BOM STATUS: Released
BOM DESCRIPTION	:REAR WHEEL AXLE ASSY	MODEL NO:
DATE	:04/05/2011 02:18:03 F	M
QTY	:1.0000	
UNCOSTED EXPLODE	D LEVEL BOM REPORT	
P/B ITEM BOM/PART	NUMBER	DESCRIPTION
PART 0002 0000000	03	REAR AXLE
BOM 0001 0000000	10	WHEEL ASSY
.PART 0001 000000	001	BEARING, 3" OD x 1" ID
.PART 0002 000000	002	SPOKE
.LABR 0003 000000	013	LABOR INSIDE
.LABR 0004 000000	014	LABOR OUTSIDE

Now in the process of comparing the two reports, notice that BOMNO 000000011 contains one subassembly 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 band using an **A** for assembly, **L** for labor, and **P** for parts. As you can see, a BOM can call an assembly. This BOMNO calling an assembly (and later the assembly calling additional assemblies) allows pc/MRP to have infinite levels for an indented Bills of Materials.

Stated in a different way, the Bicycle's TOP ASSEMBLY calls for several parts, one being an assembly. The assembly it calls for is 000000010. We know 000000010 is an assembly because it has an A in the Part\_Assy field. Further down on the BOMNO column 0000000010 is called. This BOMNO calls for a few more parts, 000000001 and 00000002 (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.

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 multilevel BOM import, this field is required to have data.

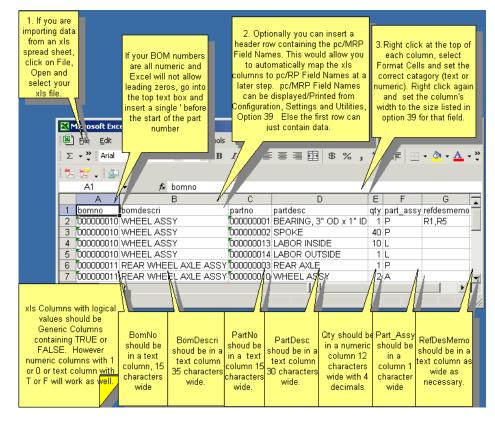
BOMDESCRI - BOM description KEY FIELD (35 char max) . If left blank, pc/MRP will ask for a value. If a multi-level BOM import, this field is required to have data.

PARTNO - Part Number KEY FIELD (15 char max)

- ITEMNO pc/MRP organizes everything in lists. This numerically orders each item in a given level of a BOMNO key field. (numeric integer field)
- QTY The quantity of the item needed in that specific level to finish that specific level. KEY FIELD (numeric, 8.4, 12 total)
- PART\_ASSY This field labels this line item as a Part or Assembly. KEY FIELD (1 char)
- 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, you will need to follow the instructions in the section for importing BOMs with large reference designator fields.
- 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)

# 15.11.6.2 STEP 2 Format the BOM spreadsheet and save as a CSV file with or without column headers

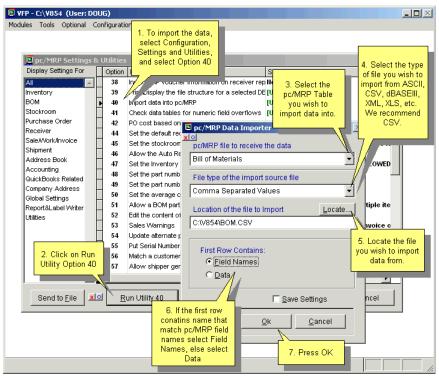
After performing your edits, your spreadsheet should look similar to the picture below.



**NOTE**: The Excel file should <u>NOT</u> have any hidden or frozen panes. Now save as a CSV (comma separated values) file for import.

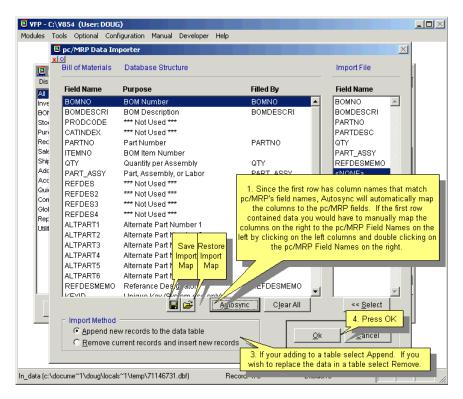
When you save an Excel file as a CSV file, Excel gives you several warnings. It is OK to just select "YES" each time.

#### 15.11.6.3 Step 3 Finishing up with Option 40:



# 15.11.6.4 Step 4 Import the data into the BOM database

We have the first row containing header information so select "Field Names" for the "First Row Contains" selection.



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!

# 15.11.7 Importing Into the Sales Order Module (CSV import)

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	5 ====						
Output F(	====						
	6 Fie	ld Field Name	Type	Width	Dec	Purpose	
	7						
	8	1 SONO	Character	6	0	Sales/Work Order Numb	er 📗
	9	2 CUSTCONT	Character	20	0	Customer Contact	
	10	3 SALETYPE	Character	2	0	Type of Sale	
	11 12	4 CUSTCORP 5 COMMENT	Character Memo	254 4	0	Customer Address Comments for item	
	13	6 CUSTPHONE	nemo Character	4 25	0	Customer Phone Number	<b>_</b>
5	444 Chars 562	2 b Ln : 30 Col : 19 S	ei : U (U bytes) in (	J ranges	þ	os\Windows ANSI ]	INS //

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

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

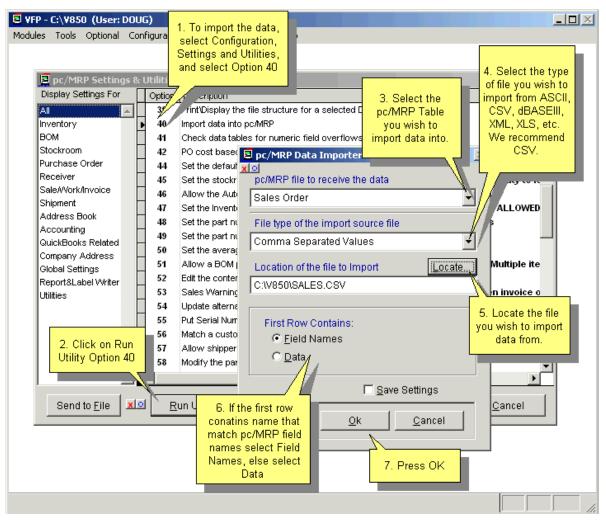
# 15.11.7.2 Step 2 Format the Sales Excel file data and save as a CSV file with or without column headers

Please note the structure of the CustCorp, BillTo, & ShipTo fields are concatenated fields described in section 15.4.10.1 for pc/MRP versions 8.03 and lower; and section 15.4.10.2 for pc/MRP versions 8.04 and higher.

Σ • <sup>»</sup> Arial	2. Optionally y header row conta Field Names. This to automatical columns to pc/RP later step. pc/M can be display. Configuration, Set Option 39 Else just cont v 10 v u ≡	ining the pc/MRP s would allow you ly map the xls P Field Names at a RP Field Names ed/Printed from tings and Utilities, the first row can	3. Right click at each column Format Cells ar correct catagor numeric). Right and set the c width to the siz option 39 for t	select nd set the y (text or click again column's e listed in
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	If you are going to import the ShipTo Addresses into the s combine the address as foll Pname 41 chr + Address 41 o + City 30 chr + State 20 chr - 30 chr. If you have pc/MRF 8.54R or higher and the addre AddrBook, the importer can im the import file contains the cu name in custcorp, o	ales order, you must ows; Name 41 chr + chr + Address2 41 chr + Zip 10 chr + Country 9 Version 8.50AG or esses are listed in the aport the address info if stphone, the company	fields are minimum sales or ItemNo, Pa OrQtyRe Freight TaxR,Terr	n, the following e the absolute when importing ders: SoNo, artNo, Descript, q, SalePrice, t, Discount, ms, Compl <mark>ete,</mark> Type,

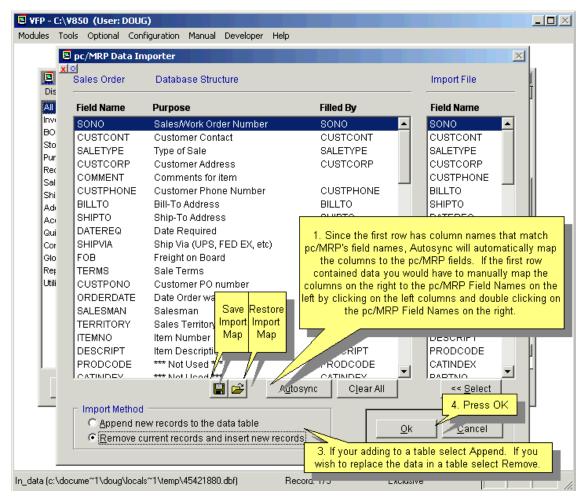
When you save an Excel file as a CSV file, Excel gives you several warnings. It is OK to just select "YES" each time.

# 15.11.7.3 Step 3 Using Option 40 to Import Sales Order Data from the CSV file



Remember to select the FIELD NAMES for the "First Row Contains" selection.

#### 15.11.7.4 Step 4 Finishing up the Import with Option 40



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!

# 15.11.8 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 d-Base 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!

# 15.11.9 Using Microsoft Access as a bridge to save as a DB-III file for importing into pc/MRP.

Follow the steps below if you are importing large fields like large **Reference Designators** into the BOM module and the **General Info** field into the Inventory module. (pc/MRP's Excel importer will only import up to 254 characters in an Excel cell)

- 1. Take your Excel spreadsheet, and having saved it above as a regular Excel file, exit from Excel. (Do not change the file type or do any special file type, simply save it as a regular Excel 97 or newer file and close down Excel.)
- 2. Make a backup of this Excel File. (You only need to make a mistake once to realize when you do not have backup's hours of work can be lost.)
- 3. Start **MS Access**. If you do not have MS Access you will not be able to finish this import. Select Blank Database and press OK.
- 4. Whatever name MS Access assigns to this database is fine. Simply press Create
- 5. Now select File, Get External Data, and Import Data.
- 6. Select Look In: and find the folder where your Excel spreadsheet resides.
- 7. Select in Files of Type: MS Excel.
- 8. Double click on the Excel file.
- 9. Select Show worksheet and press Next
- 10. Select First Row Contains Column Headings and press Next
- 11. Select In a New Table and press Next
- 12. Select Next
- 13. Select No Primary Key and press Next
- 14. Import Table to: whatever you would like to call it and Press Finished
- 15. You will now see you have just created a table in **MS Access**.
- 16. With this table highlighted (single left click.) Select Design
- 17. On the row that contains **REFDESMEMO or ALTPARTNO**, do a single click on the Data Type column, and Change the Data Type from Text to Memo.
- 18. Press File and save.
- 19. Close the Design View
- 20. Select File, Save As, and To An External File or Database and press OK
- 21. Select the desired location to put this file.

- 22. Select Save As Type: FoxPro 2.6 or as a dBase III if FoxPro 2.6 is not available.
- 23. Select an appropriate name and Export
- 24. Close MS Access

We have now created the files necessary to begin importing data into pc/MRP.

Having followed all of the steps listed above you have now manipulated and created the necessary files to allow you to import data into pc/MRP. We will first import data into the Inventory module. We will then search for duplicate data in the Inventory module and then import data into the BOM module. From there we will audit the BOM module to look for errors.

# 15.11.9 Possible Problems with Importing Excel Files

- Your Excel columns may be right justified.
  - All Excel text columns should be left justified. To left justify all Excel columns, press the control and the A keys. Select Left Justify, in the Excel Toolbar located above the spreadsheet.
- Your Excel file contains hidden columns.
  - To display the hidden columns, press the control and A keys. 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 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 is not free and requires the use of support time.

# **15.12 Tracking Serial Numbers**

#### 15.12 Overview

pc/MRP for Windows versions 6.50 and higher can use the optional Serial/Lot Number module, that allows the user to issue, invoice, receive, and track an infinite number 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.

#### **15.12.1 Tracking Methods**

pc/MRP provides several methods to track serial numbers. Any or all of the methods listed below can be used.

- The Address Book Module can be used to track serial numbers simply by entering the serial number into the comments field of the customer address record. Editing and displaying the customer's address record would bring up his serial number(s). By the same token if you wanted to find a customer who has a specified serial number you could find the customer by selecting Option 6, 'Print and Display Addresses Matching A Partial Description', from the Address Book's Main Menu. Press Enter until you reach 'Enter a partial description of text in the comment field'. Enter the serial number and press. Select either printout or display and the customer's address will be printed out or displayed.
- The 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 Model Number using the Configuration Menu's Change Boiler Plate Option. Version 5.88 added the report option to 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 enter the serial number into the lot number field. The Stock Room Reporting Module will provide a record of all transaction for a specified lot number (serial number).

# 15.13 Updating pcMRP

#### 15.13.1 Version Updating Instructions (version 6.78 and higher)

Call Software Arts if you have any difficulties in following the procedures below.

If you have a multi-user copy of pc/MRP, make sure everybody has logged off pc/MRP before starting this update. With pc/MRP Versions 8.10 and higher, select Configuration, User Connectivity and Administrative Lockout.

- 1. Make a back-up copy of the current production pc/MRP directory and all of its contents (Usually named '...\pcmrpw').
- 2. Make sure that no files in the pc/MRP directory are attributed read only.
- If you have received an update CD from Software Arts:
  - 1. Load the CD into the CD Drive of the PC containing the pc/MRP directory.
  - 2. Allow the CD to auto start and press the Update button or use Windows Explorer to locate and click on the CD's update.exe file.
- If you have received an update email from Software Arts:
  - 1. Create a new directory to store the update exe file.
  - 2. Single click on the URL in the email containing the update exe file.
  - 3. When prompted select, Save to disk.
  - 4. Browse and select the new update directory to store the update exe file.
  - 5. Once the download is complete, use Windows Explorer to locate and double click on the new update exe file.
  - 6. The update program will ask you to browse and locate the pc/MRP directory.
  - 7. Clicking Next will extract and copy files into the pc/MRP directory.
  - 8. Click on Finish to exit from the update program.
  - 9. Start pc/MRP, it will detect that it has been updated and make any necessary changes to pc/MRP to apply the update.

#### **15.13.2 Revision Updating Instructions**

- 1. Set Admin lock (version 8.00 and higher) and when everyone is out of pc/MRP:
- 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. (you may also just download and do the install later)
- 5. pc/MRP will re-start and finish the update if needed.
- 6. Verify the pc/MRP data and optionally create another backup of the pcmrpw directory.
- 7. Remove the Admin lock you set in step 1.

### 15.13.3 Revision Update Reminder

The following window will appear if you have not updated pc/MRP in 60 days.

Update	Reminder			
×0 •••	We've 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, Follow this link.			
	Remind me the next time Hogin Remind me the next time Hogin Remind me termerrew Remind me in one week Remind me in two weeke	Close Close In versions 8.20 and above, this pops up if you have not update within the last 60 of Choose an option to delay	ed your pc/MRP lays.	

#### **15.13.4** Possible Installation Errors

- While installing the update from the update exe file, the update program asks for disk two. If you are installing from a CD, recover from the back up, and try the update from a different computer. If this persists, call Software Arts. If you are installing the update from a downloaded update exe file, 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 while the error is 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.

# **15.14 Common pc/MRP Functions**

#### **15.14.1 Queried Search Overview**

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. To access the **Queried Search** tab simply use the mouse to click on the **Queried Search** tab.

🗧 Address B	ook Data	base			
	Indexed 9	Search (Fastest)	Queried Search		
Field	Not	Operator	Value	Match Case	Query Type
ld		Equal To 📃 💌			Exclusive
Name	□ [	Equal To 📃 💌			
Pname	□ [	Equal To 📃 💌			Run <u>Q</u> uery
Address	□ [	Equal To 📃 💌			🖻 🖪 🗙
ld		Name		Pname	Addres 🔶
					<u> </u>
	′⊻iew ′ <u>E</u> dit			Qk	<u>C</u> ancel

#### 15.14.1.1 Creating and Running a New Queried Search

The **Queried Search** tab screen is the same for every module. Only the **Fields** change according to the fields available in each module. The above example is from the Address Book Database.

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.

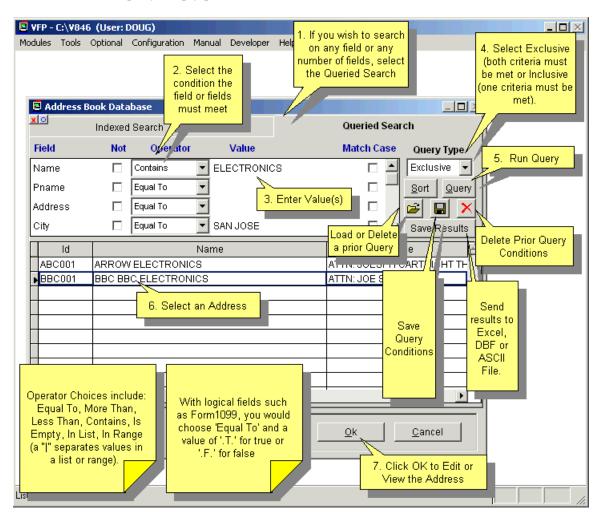
**NOTE:** 'Contains' does not use the "|" as there is only one value that 'Contains' looks for in the field. You can even have a value of "this and that" and it will find the exact data string wherever it is located in the field 'In a Range' is for from/to values; E.G. Name, In a Range, "zuk|zum". Will return all starting values from zuk thru zum. Notice, no spaces.

'In List' is for exact an beginning; E.G. selecting Name, In List, "eng|con" will only return values beginning with 'eng' and 'con'. Again, no spaces.

Equal To' is also a 'Begins with' operator.

As you can see, 'In List' and 'Equal To' are very similar.

**Example 1**: If users wanted to search for a customer name of **ELECTRONICS**, users 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 simply press **Run 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 Ca	ase
Pname		Contains	•	JOE		
Address		Equal To	•			
City	<u></u>	Equal To	•	San Jose		
State		Equal To	•			•

Users can further define multiple constrains through the **Query Type** field. The **Query Type** allows users to define the query as **Exclusive** or **Inclusive**. A query with multiple constraints that is **Exclusive** must meet all of

the criteria to be listed in the scroll window. A query with multiple constraints that is **Inclusive** must meet only one constraint to be listed in the scroll window.

By example, if we were to search for an Address Entry that either has a **PNAME** of **JOE** or resides in **San Jose**, the **Query Type** would need to be set to **Inclusive**.

#### 15.14.1.2 Saving, Loading, and Deleting a Queried Search

Once the query has been built, it can be saved for future use by pressing the disk save button.



A name and description can be defined per query. Queries can also be saved and made available to all users or just the user that created the query.

Ē	Save Query 🛛 🔀				
	Name of Query				
	JOE_1				
	Query Description				
!	SEARCH FOR JOE NOT IN SAN JOSE				
•	☑ Make this query available to other users				
	<u>Save</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	۵.
Customer references	RON	
JOE_1	BRENT	
REFERENCES	DOUG	$\overline{\mathbf{v}}$
Query Description		
SEARCH FOR JOE NOT IN SAN JOSE		4 F
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.

#### 15.14.2 Indexed Searches

and Edit Preferences. Save Settin Color Coo Go Top Go Bottor	Search y way to ess. bk Datable Sort Order Sort Order Company Name Sort Order Company Name 2. Enter first c Begin Scrolling At	Queried Search Include No Selections ouple of characters Search
Right Click Color Code to display the BC001	Company Name ARRO 4. Select Address BBC Mar	Attention:
COLOR	CA STATE BOARD OF EQUALIZATION	ATTN: DEPT 99
definitions. AL001 AN001	CANA MANUFACTURING CORPORATION	ATTN: JOESPH CARTRIGHT THE 3R
IG001	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. 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 Index

Re-indexes 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.

## 15.14.4 Remove Marked Records

Removes all of the records, previously marked for deletion in the associated module, from the disk. The records will no longer be recoverable. If you have pc/MRP versions 8.20Z, 8.23E and lower, you should create a copy of the database files prior to running this utility. Call Software Arts for help in this area.

**NOTE:** With versions 8.20AA, 8.23F and higher, 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.

# 15.14.5 Remove Over X Years

Applies to:

- Stockroom data
- Purchase data
- Receiver data
- Work Order data
- 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. In pc/MRP versions prior to 8.20AA and 8.33F, it is advisable to save the associated database files to disk and label it "*Module Name* data DBF as of mm-dd-yy". For accounting, you should also generate a printout of the file prior to closing it out. Call Software Arts for help in this area.

**NOTE:** With versions 8.20AA, 8.23F and higher, 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.

# 15.15 User Connectivity & Administrative Lockout

pc/MRP for Window	ws - Version 8.00 (User: R)		
Modules Tools Optional	Configuration Manual		
	Module Activation	•	
	Settings & Utilities		
	User Connectivity & Administrative Lockout		
	Scheduled <u>T</u> asks	•	
	Download/Install a new revision pc/MRP Internet Site		_
	Product Pricing & Order form	To find out who is	using pc/MRP or to
	About pc/MRP	set an Administra	ative Lockout, go to menu and choose
	pc/N by Soft		kouť.
Shows the number of Users of	currently connected with an option to force other use	s out of the application.	NUM 2:27:20 pm

## 15.15 User Connectivity & Administrative Lockout Overview

This is the area you first visit for doing any kind of exclusive administrative work on pc/MRP such as backing up the database files or running exclusive processes as re-indexing all pc/MRP's indexes. If the system is not locked down and scheduled tasks need to start (see Section 16.16), these tasks will produce an error, stop processing, and wait to re-start according to their schedules.

# 15.15.1 Step 1, Set Admin Lockout, Press Set Administrative Lockout Button

Press the Show Users Button to display who besides yourself is presently online with pc/MRP. Press the Set Administrative Lockout Button to send a message to those users to log out of pc/MRP.

pc/MRP for Windows - Version 8		
Modules Tools Optional Configuration 1. Press the Show Button to view or pc/MRP User 2 Users are of pc/MRP appl Show Users Set Administrative Lockout	Users line surrently accessing the ication. <u>Qk</u> 2. pc/M users ot	IRP will display all ther than yourself.
3. Press "Set Administrative Lockout Button to send a message to all users to get out of pc/MRP.	Active pc/MRP Users	Computer Name
		NUM

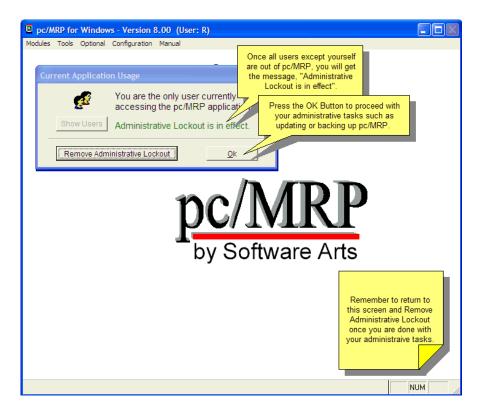
15.15.2 Step 2, Set Admin Lockout, Wait for users to log off of pc/MRP

Wait for users to log off of pc/MRP.

pc/MRP for Windows - Version 8.00 (User: R)	
Modules Tools Optional Configuration Manual	
Current Application Usage	
Enderstanding       2 Users are currently accessing the pc/MRP application.         Show Users       Waiting for users to terminate usage         Remove Administrative Lockout       Qk         Image: Comparison of the pc/MRP in the processes of the pc/MRP. The system will wait to start it's processes on the pc/MRP. The system will wait to start it's processes on the pc/MRP. The system will wait to start it's processes on the pc/MRP.	
	NUM

# 15.15.3 Step 3, Set Admin Lockout, Press the OK Button

Once all users of pc/MRP except you have logged of, the following screen appears:

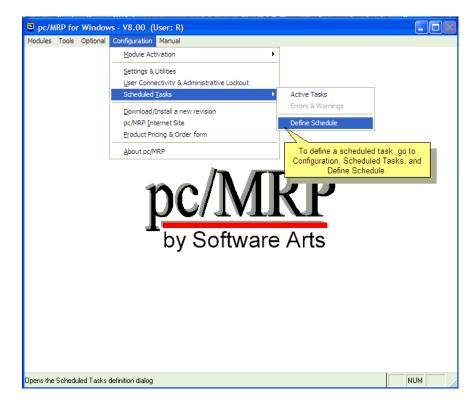


You can now press the OK Button and proceed with your administrative tasks. Once you are finished with your administrative tasks, you must return to this module and press the Remove Administrative Lockout Button.

#### 15.15.4 Step 4, Removing the Admin Lockout

If the person setting the lockout logs out of pc/MRP, he must log back into pc/MRP using the same PC and the same user name, in order to remove the lockout. If he cannot log back into pc/MRP, contact your system administrator to remove the file MRPBUSY.FLG from the pcmrpw directory.

# **15.16 Scheduled Tasks**



## 15.16 Scheduled Tasks Overview

There are numerous tasks you can set to run automatically:

- 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 so that the tasks can be executed.

You should create a user, named 'scheduler' as an example, with NO rights to any modules. 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.

Note: With the Password module implemented, you must have 'Delete' privileges to the Configuration menu to define schedules.

# 15.16.1 Scheduling Task's, Step 1, Set PC, Retry, Interval Settings

Press the Scheduler Settings Button to set which PC is to perform the tasks, Retry Settings, and Time Interval between tasks.

	Windows - V8.00 (User: R)		
Modules Tools	Optional Configuration Manual		
Scheduler	Scheduler Settings	petween the computer that last your computer if you are now olling the events.	
Schedule	Machine on which events are to be performed © SERVICE © Current Machine (SERVICE)	If an error occurs, you may re-sch after a set number of minutes, hu how many re-trys there should be for the next frequency	ours, or days, and e. Or just wait until
Start 00:0 Start 10/12	C None (Next Scheduled Time) The ti	3	
Pressing the Scheduler button brings up the Scheduler Settings form.			
Schedtmp	Reco	d: 13/13 Exclusive	NUM

# 15.16.2 Scheduling Task's, Step 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 21:00 is 9:00PM), and the Start Date.

pc/MRP for Windows - V8.00 (User: R)	
Modules Tools Optional Configuration Manual	
Scheduler	
Export Invoices to Quickbooks      Export Receivers to Quickbooks      First select the process to schedule.      lies	
Schedule Options Execution Options Event Log	
Frequency	
Once	
Start Time Set up the Frequency (Once, Daily, Weekly, or Monthly).	
00:00 :: Start Date the Start Time (time is in 24-hour notation, therefore 21:00 is 9:00PM)	
10/12/2004 Finally, When do you wish to start the process.	
Scheduler Settings <u>Ok</u>	
Schedtmp Record: 13/13 Exclusive NUM	

Schedule Tasks always runs with Admin authority, and then the computer goes back to its original rights.

# 15.16.3 Scheduling Task's, Step 3, Select Execution Options

A task's execution options will vary by task. Please note each task's options carefully. As an example:

pc/MRP for Windows - V8.00 (User: R)	
Modules Tools Optional Configuration Manual	
Scheduler     Control Rollup the Mean Time Between Failure (MTBF) on assen     Update Alternate Part Numbers on BOMs	nblies
Update Customer account balances in the Address Book	<
Schedule Options Execution Options Event Log	
Include Demand from © Sales Orders only © Work Orders Only © Both: Sales and Work Orders	/, please be aware of ating the Inventory
Scheduler Settings	<u>Ok</u> ancel
Schedtmp Record: 8/13	Exclusive NUM

Conversely, the 'Update the On-Order quantities in inventory', has no configuration options.

# 15.16.4 Scheduled Task's Event Log

Users can use the event log to see if and when tasks were performed. Each task has its own log.

pc/MRP for Windows - V8.00 (User: R)	
	tasks selected to run was the the On-Demand quantities in inventory.
date_time b	Eurge Log eduled run is the same eccause this task was to run only one time.
Scheduler Settings <u>O</u> k	Cancel
Schedtmp Record: 8/13 Exclu	isive

# 15.16.5 Active Tasks

Select Active Tasks on the Menu to see currently scheduled tasks.

pc/MRP for Windows - V8.00 (User: R)	)		
Modules Tools Optional Configuration Manual			
The Active Tasks menu item shows all currently scheduled tasks	This form shows each task how many times it has failer after it has successfully con and warnings can be seen or	d if any. The task wi npleted or has errore	Il be removed ed out. Errors
Actively Scheduled Tasks			1
Event Name	Next Run	Failed Tries	
Export Receivers to Quickbooks	10/14/2004 12:00:00 AM	0	1
Export Invoices to Quickbooks	10/14/2004 12:00:00 AM	0	
		<u>C</u> lose	
			[NUN 4
Schedtmp	Record: 1/2 E	Exclusive	NUM

### 15.16.6 Scheduled Task's Errors & Warnings

This log shows information about currently scheduled tasks that did not complete for some reason.

If you get a message, "**Another back-up was in progress**" preventing you from running a back-up and there is no back-up in progress, delete a file named "**BackUpInProgress.flg**" in the pcmrpw directory and re-run the back-up.

pc/MRP versions 8.00AD and higher can be set to record an internal event log by creating a blank file named SCHEDULETIMER.LOG with Notepad, and saving it in the pcmrpw directory. From the time the file is saved, pc/MRP will write an event into the SCHEDULETIMER.LOG file. Pc/MRP versions 8.04D and higher contain a checkbox to activate this feature. Pc/MRP versions 8.00AC and lower will incorrectly set the next run date to the following day and skip the evening run if you select a frequency of Daily.

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

# 15.17 Creating a pcMRP VFP ODBC DSN

### 15.17 Overview

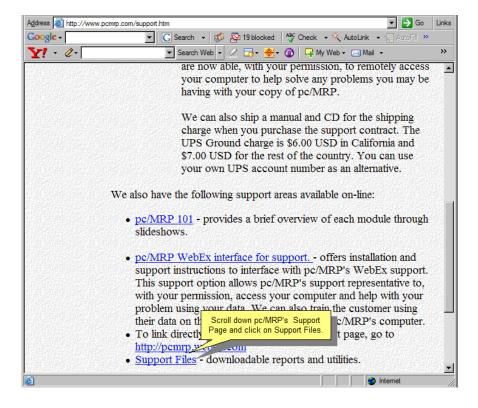
A slideshow of this module is available at: http://www.pcmrp.com/mrp101/odbcopeninternetexplorer.htm

pc/MRP product is written with Microsoft's Visual FoxPro. For better security and data reliability, pc/MRP versions 8.00 and above use the native Visual FoxPro database structure in stead of the previous DB-III structure. A side effect of this change 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.

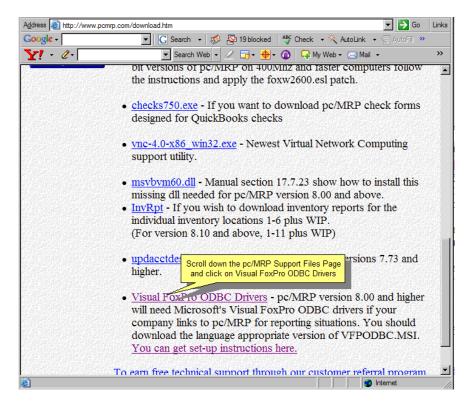
Coogle       Image: Coogle - Coogle	Address Address Address Address Address		🔽 🄁 Go 🛛 Links
The following slide show demonstrates how to install the Visual Foxpro ODBC Driver. It must be installed at every computer that needs to integrate pc/MRP database files with Access, UPS, etc. Home Brochure Price List FAQ Order Software Training Reviews pc/MRP Manual Newsletter Free Updates Totherice Liver and the contect of the context		🌮 Check 🔹 👯 Look for Map 🔹 🔂 utoFill ᠉	
demonstrates how to install the Visual Foxpro ODBC Driver. It must be installed at every computer that needs to integrate pc/MRP database files with Access, UPS, etc. All to request an update to Version 8.10P before your support contract expires! Home Brochure Price List FAQ Order Software Training Reviews pc/MRP Manual Newsletter Free Updates 3. Click on Technical Support			2.11635 116
Brochure Price List FAQ Order Software Training Reviews pc/MRP Manual Newsletter Free Updates Tothsical Connect Sales Orders 3. Click on Technical Support Tothsical Connect Training Reviews BUMS Purchasing Receiving Click here to order MRP 101 An Introduction to pc/MRP Manufacturing Slideshow QuickBooks <sup>®</sup> Users	demonstrates how to install the Visual Foxpro ODBC Driver. It must be installed at every computer that needs to integrate pc/MRP database files with Access, UPS, etc.	by Software Arts, In prequest an update to V	entory/Accounting Package C. Version 8.10P before your
	Brochure Price List FAQ Order Software Training Reviews pc/MRP Manual Newsletter Free Updates 3. Clict	Address Book BOM kroom pc/MRP Pu Sales Orders Receiv c on Technical Support	Fully Functional Trial Click here to order MRP 101 An Introduction to pc/MRP Manufacturing Slideshow QuickBooks® Users

## 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 Navigate to the file download page.



Scroll down to and click on the Visual FoxPro ODBC Drivers link. There is another link in the same paragraph with instructions like these in a MS Word document; it also contains the ODBC link.

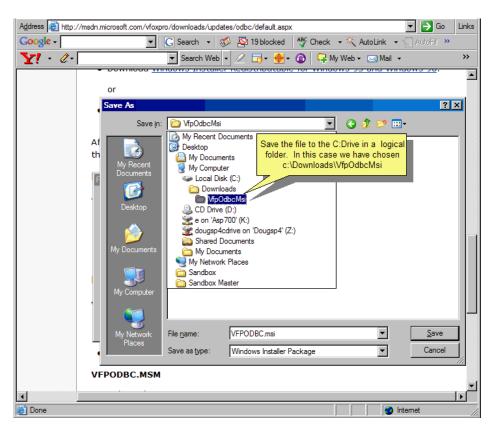
This will take you to Microsoft's web site for the download.

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 7 (15.17.7).

## 15.17.4 Step 4 Microsoft's ODBC download page.

Coogle - 🔽 C Search - 🛷 🎦 19 blocked 🖓 Check - 🌂 AutoLink - 🗐 AutoFill »	
Y - 🖉 - Search Web - 🖉 🕞 🔶 🖓 My Web - 🖂 Mail -	<b>&gt;&gt;</b>
or	
Download <u>Windows Installer Redistributable version 1.1 for Windows NT 4.0</u> ( <u>x86</u> ).	
After Windows Installer has been installed on your computer, you can download the Visual FoxPro ODBC Driver setup.	
Download Instructions	
To install the Microsoft Visual FoxPro ODBC Driver:	
<ol> <li>Accept the end user license agreement (EULA) for Visual FoxPro ODBC Driver (6.1.8629.1). By downloading the driver, you agree that you have read the EULA and accept the terms.</li> </ol>	
2. Choose the version from the list below.	
Download N       Scroll down and select the English         VFPODBC.MSI       Version of the VFPODBC.MSI Driver.         • English	
• <u>German</u>	
• <u>Spanish</u>	
VFPODBC.MSM	
E internet	

15.17.5 Step 5 Follow the on-screen instructions to download the file.



15.17.6 Step 6 Navigate to the downloaded the file.

MpOdbcMsi		
<u>F</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> e	łp	🥂
🚱 Back 👻 🕤 🖌 🏂 Search	Folders 🕼 🎲 🗙 🇐 🎹 •	
Address C:\Downloads\VfpOdbcMsi		🖌 🔁 Go 🛛 Norton AntiVirus 归 👻
Folders ×	Name 🔺	Size Type
🕀 🚞 C#AspNet 🔺	1 VFPODBC.msi	895 KB Windows Installer Package
🕀 🚞 C#DirectoryPicker		
C#DriveComboBox	Use Windows Explorer to locate the do	unloaded
⊕ C#FedEx	file and double click on the file	
ExchangeRateC#		
FamilyReunion		
🚞 Fangui		
FprotAntiVirus		
E 🛅 InspironManuals		
Inspiron Video Drivers     Movie		
Movie		
NetExpressions		
OutLookFiles		
Detures		
Contractional CSharpCoc		
E Drograms		
🗉 🛅 RosettaNet		
C Sleeter		
🛅 Travis and Helen		
🗀 UPS		
C VfpOdbcMsi		
🛅 VisualBasicDLL		
🕀 🧰 VisualFoxPro		
🗎 Webex		
ConeAlam 🔽		_

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

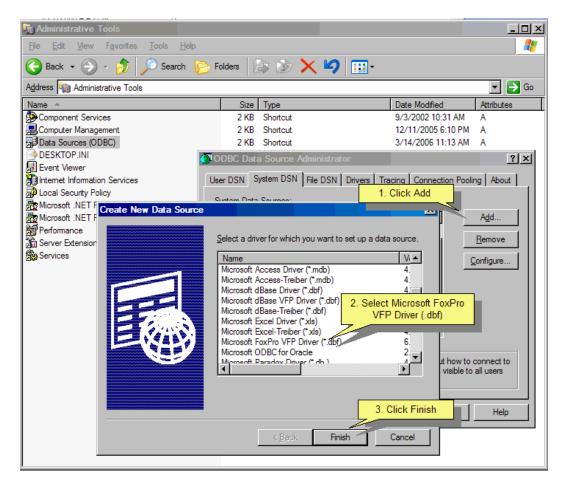
15.17.7 Step 7 After the install is complete, start the Data Sources (ODBC) menu.

🕎 Administrative Tools	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools <u>H</u> elp	N
Back	Enders     the masi file installs the VFP OBC( lect Control Panel, Administrative     s, and Data Sources (ODBC).     Date Modified Attributes     9/3/2002 10:31 AM A     2 KB Shortcut     12/11/2005 6:10 PM A     2 KB Shortcut     2 Shortcut     2 KB Shortcu
	and can only be used on the current machine.
	OK Cancel Apply Help

Older Windows operating systems may have the **ODBC Data Sources** listed in the **Control Panel** and not in the Administrative Tools section.

Select **System DSN** as that allows any logon user of this computer to use this pc/MRP Data Source to access pc/MRP.

15.17.8 Step 8 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).

## 15.17.9 Step 9 After selecting the VFP driver and clicking 'Finish' you need to connect to pc/MRP.

Administrative T	ools				
<u>File E</u> dit <u>V</u> iew	F <u>a</u> vorites <u>T</u> ools <u>H</u> e	lp			
🔆 Back 🝷 🕥	🗸 🏂 🔎 Search	Folders	× %   [	<b>1</b> -	
Address 🥡 Administr	ative Tools				💌 芛 Go
Name 🔺		Size Type		Date Modified	Attributes
Component Service	es	2 KB Shortcut		9/3/2002 10:31 AM	A
Computer Manager	ment	2 KB Shortcut		12/11/2005 6:10 PM	A
Data Sources (OD	BC)	2 KB Shortcut		3/14/2006 11:13 AM	A
DESKTOP.INI		ODBC Data Source A	dministrator		?   ×
Event Viewer				- x - x	
Internet Information		User DSN System DSN	File DSN Driv	ers Tracing Connection Pooli	ing About
Local Security Poli	•	System Data Sources:			
	mework 1.1 Configuration	n <u>System Data Sources</u> .			1
Microsoft .NET Fra	mework 1.1 Wizards	Name	D	river 🔺	A <u>d</u> d
Performance	ODBC Visual FoxPro		ata Source N	lame X	Remove
Server Extensions					<u>In</u> emove
Services	Data Source <u>N</u> ame:	pcMRPVFP 2	. Enter Descr	iption OK	Configure
	Description:	pcMRP VFP Database Ples		Cancel 5. F	ress OK
	Database type	· · · · ·	3. (	Check Free Tables	
	O <u>V</u> isual FoxPro o	database (.DBC) 💿 Free	Table directory	<ol> <li>Locate your pcmrp dire server for multi-user insi</li> </ol>	
	Path:				
	c:\pcmrpw		Brow		connect to all users
	lo: pompri		<u></u>		
			ок	Cancel Apply	Usla
		_	OK	Cancel Apply	Help
·					

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.

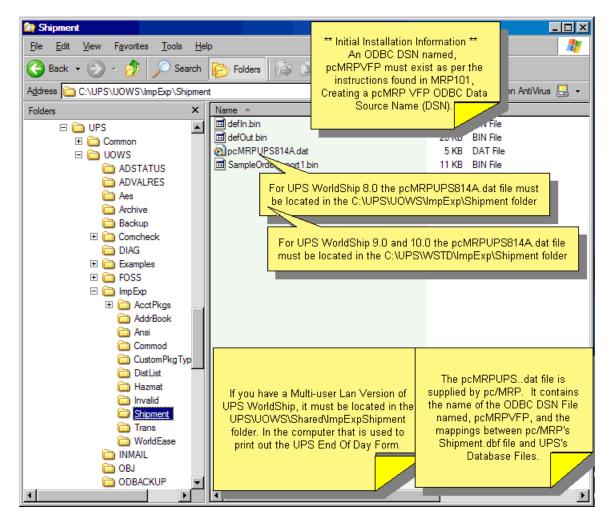
Some customers have a Peer-to-Peer network and the pc/MRP directory may be on that workstation. You would just browse to that workstation instead of a server.

Now press 'OK' twice to end the ODBC setup for pc/MRP.

# 15.18 pcMRP Integration with UPS WorldShip

## 15.18 Overview

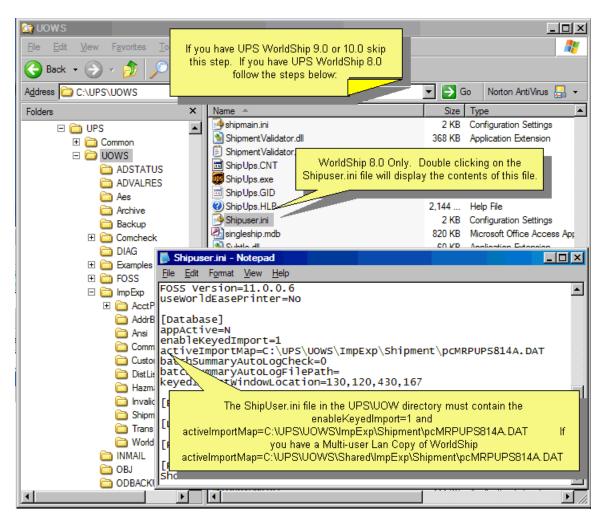
A slideshow of this module is available at: <u>http://www.pcmrp.com/mrp101/upspcmrpupsmappingfile.htm</u>



Please note the following:

You have already created your ODBC connection to pc/MRP (see section 15.17). UPS WorldShip version 8.0 or above is installed on your computer or accessible via the LAN. The pcMRPUPS814A.dat file must be copied to the \UPS\UOWS\ImpExp\Shipment directory of your UPS software.

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.



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)

Save this file and continue to Step 2.

# 15.18.2 Step 2 Set up the pc/MRP Interface to UPS WorldShip.

E FOX - C:\V814 (Use		
Modules Tools Optional		
	Module Activation	
	Settings & Utilities User Connectivity & Administrative Lockout	
	Scheduled Administrative Tasks	To Configure your pc/MRP UPS
	Download/Install a new revision	Interface, select Configuration, Settings and Utilities.
	Support Contract Status	Settings and Otinities.
	pc/MRP Internet Site	
	Product Pricing & Order form	
	About pc/MRP	1
	pc by S	be integrated as per the "UPS and pc/MRP Integration" Slide
Configure and customize pc/N	1RP	Show.

Run pc/MRP and navigate to the 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.

E	FOX -	C:\V814 (User: DOUG)	
N	lodules	Tools Optional Configuration Manual Developer	er <u>H</u> elp
]	D 🖻	E S R X B R × × ! M	
I	рс/М	RP Settings & Utilities	
Г	Option	Description	Setting
	73	Support Contract Expiration Warning in Days	30
	74	Prevent document/part number from being edit	ited
	75	Repair Duplicate document numbers	[Utility]
	76	Automatically pre-seed the Physical Inventory of	counts Yes
	77	Purge unneeded Revision Update folders from	
L	78	Select the source for the division field on Purch	
L	79		when r No Labor Rate: Derived from Average Rate (Option 6)
H	80	Set the Logbook Options	Prefers Mircosoft Word 2. Select Manual (if you want to
H	81 82	Salesman & Commission source setting	
H	82		later) or Automatic Generation (if you want to generate a UPS
H	84	Dedicated work orders can be issued for	These Settings affect the Records after entering each
H	85	Set ISO 9000 Vendor Performance Days	invoice).
H	86		This module can be configured
H	87		shipment document whenever voice is created.
F	88	Allow issuing new	Shipment Creation: Allows you to specify Billing
5	89	Shipment module settings	<u>Manual Generation</u> Option and Package Type.
	1		Automatic Generation
	1		Open the shipment for editing after generation.
			3. Enter your UPS #
			UPS Account Number: WX0164
	<b>ا</b>		4. Heas of -
	Oher		Ok Cancel
	Chan	ge Option 89 Revert Option 89	
-	<i>c</i> .		
Ľc	nfigtmp		Record: 89/89 Exclusive NUM

Scroll down to 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 at a time for the Invoice.

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.

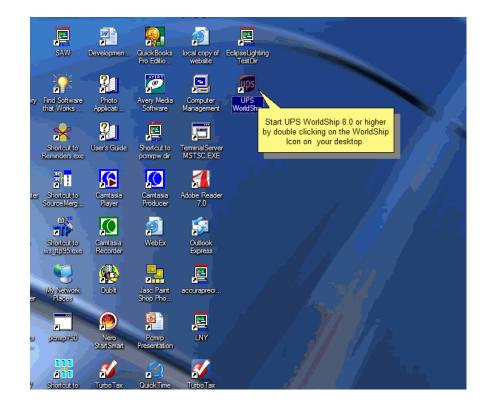
15.18.4 Step 4 Save the changes to the Shipment module settings.

		C:\V814 (User: DOUG)	
-		Tools Optional Configuration Manual Developer Help	
	🗋 🖻		
I	🗧 pc/M	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	
	77	Purge unneeded Revision Update folders from disk.	
	78	Select the source for the division field on Purchase &	Purchase: Inventory Sales: Inventory No Labor Rate: Derived from Average Rate (Option 6)
	80	Set the Logbook Options	Prefers Mircosoft Word. Automatically inserts logbook hea
	81		Salesman from Address Book. Commission from Address
	82	Mark SO/WOs with an ISSUE SUBS ONLY assembly	
	83	Add, Edit, or Delete the Terms & Conditions for Purch	
l	84	Dedicated work orders can be issued for multiple levels	No
	85	Set ISO 9000 Vendor Performance Days Allowed for	Days Early: 99 Days Late: 0
1	86	Set DBF file output format	Ask the User when the file is created
	87	Close invoices (AR) and receivers (AP)	[Utility] Your changes will be noted in red
	88	Allow issuing materials for on hold sales/work order	
1	▶ 89	Shipment module settings	Auto Shipment Creation: Yes UPS Account Number: WX0
ł			
ł			
	•		Click on Save to save changes
	Chan	ge Option 89 Revert Option 89 XO	Save Cancel Send to File
	Chan		
S	itandard		NUM

Changes are noted in red text and you MUST click on Save to save your changes. At this time, you can also choose to Cancel and exit the menu or Revert the Option changes to it's original values and change the option again.

Exit or minimize pc/MRP and continue to step 5 to set up the UPS WorldShip options.

# 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®					_ 0
· · · ·	1. 06/601 100/3	OnLine Connect	Window	Help	
Shipping Pickup Log Ci	Address <u>B</u> ook Editor Address <u>L</u> ists Editor	Shift+F9		Void	Endor <b>? EXIT</b> Day Help Exit
Ship To Ship Fror Customer I <u>D</u> : Company or <u>Name</u> : Company or <u>Name</u> : Street: Com/Floor/Addres Country:	Validate Ship To Address ANSI Reference Qualifier Editor Qharge Back Code Editor Commodity Editor Profile Editor Reference Rate Utility Required Reld Set Editor Shipper Editor Tab Qrder Editor Tab Schedule Editor Communications Setup System Preferences	F8	tions Deta s: r v Delivery Time: 1: ird Party	ail Refe	Package Packag
United States City:	State/Prov:	elect System		es	(Printed on Label)
Telephone: () - [] UPS Account Number	E- <u>m</u> ail Address:	Pac <u>k</u> age:	Shipme 0.1	0	\$0.00
Shipper: WX0164	Profile:	Pkg: H	1 Pkgs	Delet	is NEW Process Shipment FID
				Ver: 8	.0.14 XOFY Pending: 0 Shpmt(s),

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.

# 15.18.7 Step 7 The UPS WorldShip System Preferences screen.

C Database Options C Compact Database at Startup S C	Bile       Edit       Activities       Loos       UPS Web Access         System Preferences       Editor         Ship       Hardware       Printing Setup       Shipment Detail         Address       Options       Address       Book         Compa       2. Make sure the "Always         Street       Address Book       Checkbook         Street       Address Book       Checkbook         First Entry Field       © Company or Name       Customer ID         Get       Latest ZIP+4® Updates       © Automatically Update         © Notfy Before Updating       © Do Not Ugdate       Database Options         U       Image: Compact Database at Startup	1. Select the Misc     Insplay Help     Show Help Topic at Startup     Rates     ays Update     Iished & Reference Rates	Image: Cancel       Help
For Help, press Shift + F1 Ver: Pending: 0 Shpmt(s), 0 Pkg(s), Cc //	<u> </u>	Manually Select Pickup Dates (Future Date Processing)	

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

Click the **OK** button.

15.18.8 Step 8 Set the required fields in UPS WorldShip.

UPS WorldShip	8 1. Select Tools					_ 🗆 🗵
<u>File Edit Activities</u>	Tools	OnLine Connect	<u>W</u> indow	<u>H</u> elp		
Shipping Pickup C		Shift+F9		X Void	nd of <b>?</b> Day Help	EXIT Exit
Ship To Ship From	Validate Ship To Address ANSI Reference Qualifier Ed Charge Back Code Editor	F8 ditor	tions Deta	ail Reference	ce	
Company or <u>N</u> ame:	Commodity <u>E</u> ditor Pac <u>k</u> age Type Editor Pro <u>f</u> ile Editor		e: ir	Pa	ackage ackage Type: 'ackage	<b>_</b>
Attention:		2. Select Require	/ Delivery Time: ed Fields		eclared Value: \$	
Room/Floor/Addree	Task Schedule Editor	- 1 1	ird Party	R	(Printe eference Number	ed on Label) <u>2</u> :
United States City:	State/Prov:	- Weight (bot			(Printe	ed on Label)
Telephone: () - [] UPS Account Num	E- <u>m</u> ail Address:	Package:	Shipme O.I ic Scale Ac	0	\$0.0	0
Shipper: WX0164	Profile:	Pkg: H	✓ 1 Pkgs	▶ M is I <u>D</u> elete P		Process Shipment F10
				Ver: 8.0.1	4 XOFY Pendin	ig: 0 Shpmt(s), //

Select the Tools, Required Field Set Editor, as you will be verifying fields in the next screen.

# 15.18.9 Step 9 Required Field Set Editor.

<mark>፼</mark> UPS WorldShip <sup>⊗</sup>		<u>- 0 ×</u>
<u>File Edit Activities Tools</u> UPS Web Access UPS OnLine Co	onnect <u>W</u> indow <u>H</u> elp	
🐺 pickop 🌌 🥠 🛄 Addres Selato	🗩 🐜 🗙 📷 🤶	EXIT
Required Field Set Editor		?×
Required Field Set Editor	Required Field Set Name:	
Choose fields required for shipping, save them as a Required	<b>•</b>	Save
Field Set, and assign it to a profile in the Profile Editor.		<u></u> ave
Optional Fields:	Optional Fields Now Required:	D <u>e</u> lete
Reference: Reference Number 1		Clear All Data
Reference: Reference Number 2 Reference: Reference Number 3		
Reference: Reference Number 5 Add →		
Service: Declared Value		
Ship From: Attention		<u>C</u> lose
Ship From: Customer ID Ship From: Department/Address 3		Help
Ship From: Fax Ship From: Room/Floor/Address 2		
Ship From: Room/Floor/Address 2 Ship From: Tax ID Number < Bemove		
Ship From: Telephone		
Ship From: UPS Account Number Ship To: Attention		
Ship To: Customer ID		
Ship To: Department/Abitess 3		
Ship To: Postal/Zip Co Make sure the "Ship To: Customer		
is not selected as a Required Fie	ld.	
	_	
Add	1 Pkgs Delete Pkg	F10
For Help, press Shift + F1	Ver: 8.0.14 XOFY Pend	ding: 0 Shpmt(s), 🏼 //

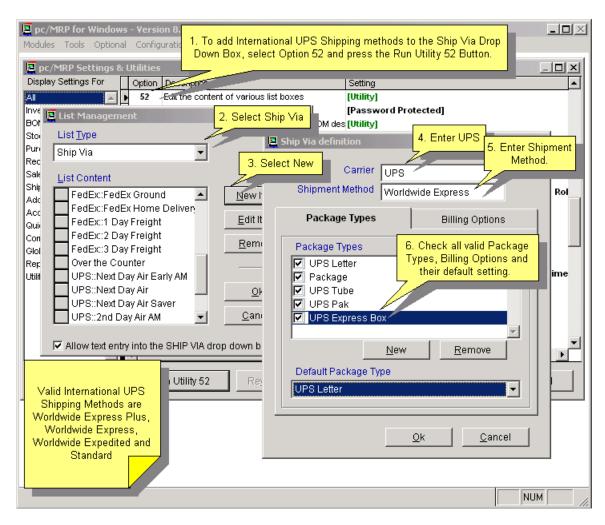
UPS WorldShip requires the 'Ship To Customer ID' field NOT listed in the '**Optional Fields Now Required**' listbox on the right side of the screen.

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

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

	DnLine Connect Window Help	
Shipping Pickup Create UPS.com Tracking Book	Sendito Report Undo Void	Enclor Day Help Exit
Ship To Ship From Distribution Customer ID: Update Address Book Company or Name: Attention: Street:	Service Options Detail Re- Shipment UPS Service: Next Day Air Saturday Delivery Guaranteed Time: Billing Option:	Click on Exit. Package Package Type: Package Package Declared Value: \$ Reference Number 1:
Boom/Floor/Address 2:     Department/Address 3:       Country:     Postal/ZIP Code ◎:       United States     -       Qty:     State/Prov:	Prepaid  Bill to Third Party	(Printed on Label) Reference Number <u>2:</u> (Printed on Label)
Telephone:     Email Address:       ( )     ·       UPS Account Number:     Tax ID Number:	Weight (pounds) Package: Shipment: 0.0 Electronic Scale Activated	\$0.00
Shipper: Profile: WX0164  UPS Standard	Add 1 Pkgs Delet	e Pkg
For Help, press Shift + F1	Ver: 8	8.0.14 XOFY Pending: 0 Shpmt(s),

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



# 16.1 pcMRP Optional Modules

### **16.1 Optional Modules**

There are several optional modules available in pc/MRP. Most of these optional modules are testable in both the trial and full versions of pc/MRP. Below is a brief description of each optional module. For further information about each module, 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. Select 'Activate', and then select **Ten-Day** trial. Now from the drop down menu optional you will see that applicable optional module activated. Modules activated while on the trial 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 days by following the instructions above. To purchase an optional module and receive the activation codes for that module contact Software Arts.

Once an optional module is activated, the optional module can be de-activated at any time by navigating to the **Configuration, Module Activation**, selecting the optional module, pressing the **De-Activate** button and reentering the activation code.

### **Advanced Password Module**

pc/MRP comes standard with one password. The optional Advanced Password Module allows administrators 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 one bucket MRP. The Single Bucket MRP does not schedule buy, issue, and make commands. The Optional Infinite Bucket MRP Module **schedules** buy, issue, and make commands according to due dates, lead times for assembly, and lead times from vendors.

#### **Barcode Module**

pc/MRP does not come standard with a Barcode Font. When customers purchase this module, they receive the **3** of **9** barcode font. This font allows users to change existing fonts in pc/MRP to the **3 of 9** font.

#### **Engineering Change Notice (ECN) Module**

This optional module allows users to keep track of ECNs.

### 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.

## 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 made will have a Name, Date, Time, and Edit made stamp.

#### **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.

### **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 sales orders and purchase orders 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.

### **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.

# **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 Advanced Password Module

## 16.2.1 Advanced Password Module Overview

pc/MRP's Advanced Password Module (available as an optional module on pc/MRP for Windows version 6.53A and higher), 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, **E** Edit and create rights, or **D** for deletion rights to a module. pc/MRP versions 7.40 and higher encrypt the password database file.

	User Name	Password	Employ	/ee ID	Last Update	Inventory	BOM	Stockroom	Address
MASTER         MASTER         MAS001         02/21/2003         D <td>DOUG</td> <td>DOUG</td> <td>DOUG</td> <td></td> <td>11</td> <td>N</td> <td>Ν</td> <td>N</td> <td>N</td>	DOUG	DOUG	DOUG		11	N	Ν	N	N
RON         JOY         RON001         06/13/2005         D	KIM	KIM	KIM001		04/25/2003	D	D	D	D
N         N	MASTER	MASTER	MAS001		02/21/2003	D	D	D	D
N None V View	RON JOY	JOY	RON001		06/13/2005	D	D	D	D
V View	ROY	YABA	DABA		11/14/2003	N	N	N	N
			V	View					
E Edit / Create			E	Edit /	Edit / Create				
e Edit / Create [Hide Costs]									1

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

# 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 configuration number (Software Arts will invoice your company). Enter the special configuration number when prompted. Exit pc/MRP and then re-enter pc/MRP using the name MASTER and the password MASTER.

# 16.2.3 Adding, Editing and Deleting within the Advanced Password Module

Go to pc/MRP's Main Menu and select the Advanced Password Module. Select New to create a new user/password combination.

Discrimination of the second s	<b>/indows - Version</b> Optional <u>C</u> onfigurat							_ 🗆 🗵
		_						
	User Password	& Access Right	5				_ 🗆 🗵	a l
l í	User Name	Password	Employee ID	Last Update	Inventory	BOM	Stockroc -	j l
	MASTER	*****		11/29/2007	D	D	D	
								ord (all_rights ate (all rights
		Pleas	se select an opti	on to perform				lected user).
				L	7			
-		Options:		w record				
		_	C <u>D</u> uplicate th	e selected rec	ord			
-	-							
-			<u>0</u> K .				<u> </u>	
		New to create a		3. Press O	к —		▼ ►	
	new us	er password	doloto righto	in the BOM me	adulo.			4
			delete fights					
	New	<u>D</u> elete			<u>0</u> k	<u></u>	ancel	
_								- I
Wp_temp			Recor	rd: 1/1	Exclusi	ve		

Select an N for No Access, V for View only rights, E for edit and create rights, or D for deletion rights to a module. To add a new user/password while in the scroll window, press Control+N.

pc/MR	RP for	Windows - Versio	n 8.23F						
<u>M</u> odules	<u>T</u> ools	Optional Configura	ition Ma <u>n</u> ual						
		User Passwor	1						
		User Name	Password	Employee ID	Last Update	Inventory		Stockroc 📥	
		▶ <mark>BOB</mark>	***	123	11/29/2007		N	N	
		MASTER	00000		11/29/2007	B	one ew		
						C Cr	reation		
							lit / Crea eletion	ate	
							sieuon		
						<b>`</b>			
			ect the Inventory to that module						
			, C for create or	ly, E for create	and edit rights				
			D for create,	edit and delete	rights).				
								•	
		Editing rele	ased BOMs requ	ires delete rights	in the BOM m	odule			
		New	<u>D</u> elete			<u>O</u> k	<u>C</u> ;	ancel	
Wp_temp				Reco	rd: 2/2	Exclusi	ve	1	

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 delete the marked record(s) and exit the Password module.

Please note that one of the passwords, named MASTER, has all access rights to all modules including the password module. You can change the name of MASTER; however, you should leave one 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 users add a text file named **csthdr.flg** to the pcmrpw directory, the password module will allow both upper and lower case  $\mathbf{e}$  and  $\mathbf{v}$  to be entered. Using lower case letters will hide some of the costs fields in the inventory, stockroom and receiving modules. This feature is not supported and/or guaranteed.

Only users with Accounting rights will be allowed access to the Alternate Currency module.

Users need  $\underline{\mathbf{D}}$  elete rights to re-index files.

Starting in version 7.55, 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.

pc/MRP's Command Window can only be used by users with **D**elete rights to the Password Module.

With version 7.72B or higher, you can set up a password refresh frequency in the Password module's default settings options. 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.

With versions 8.11B and higher, the 'Editing released BOMs requires  $\underline{\mathbf{D}}$  elete rights in the BOM module' checkbox is available on the Password Module screen. Checking this box will require a user editing a released BOM to have  $\underline{\mathbf{D}}$  elete rights to the BOM Module. Please see section 12.1.8 for more information.

e pc/MRP f	or W	/indows - Ve	rsion	8.20B						_ 🗆 🗵
<u>M</u> odules <u>T</u> oo	ls 🤇	Optional <u>C</u> onf	igurati	on Ma <u>n</u> ual						
CORP. 7						h BOM Èdit R sed". If this c an edit a rele: ". If this cheo hk (same as r 8.11 and high	D can create Rights or hi heck box i ased BOM ckbox is u released) er. The P	a "Pre igher ca is chec I. Newl ncheck This ch artMas	an change a ked, only a ly created ed, newly eckbox is t.dbf file	
		I Eatting New			Status Field. F			NO Bucl che demar Orde BON pc/MR Chec	Released. TE: The Infinite ket Module has ckbox to include nd for Sales/Wo ers for preliminar Ms. Unchecked P may under or ked, pc/MRP m der wrong parts	a e ırks ry I, rder.
Wp_temp					Recor	d: 1/1	Exclusi	ve		

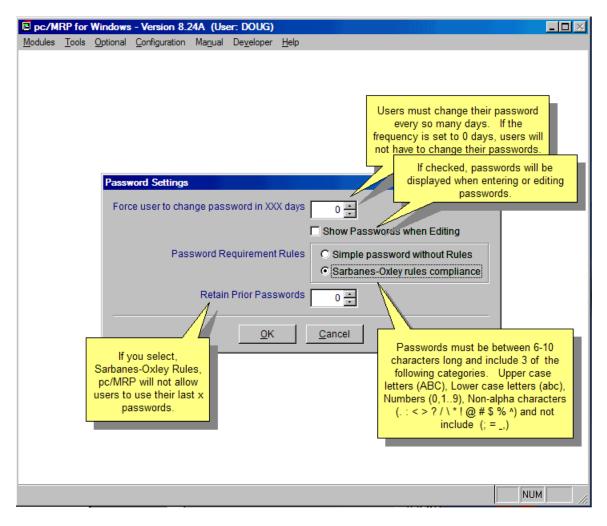
pc/MRP's Configuration Module requires  $\underline{E}$  dit rights or higher to edit the Configuration Settings.

pc/MRP version 8.32 and higher allow you to select what inventory areas a user is allowed to access.

🗧 pc/M	RP for V	Vindows	- Versi	on 8.32	D						
Modules	Tools	Optional	Config	uration	Manual					8.32A a selecte areas ca	IRP Versions and higher, d inventory in be hidden vidual users.
		🧧 User	Passw	ord & A	ccess Rigl	nts				7/	
		Purch	. Req.	MRP	Routing	Inspection	Corp Report	Shipment	EDI	Inv Arr us	
		► C	)	D	D	D	D	D	D	Edit	
			diting re	eleased	BOMs rei	fr		1 STORES 2 TEST/MR 3 R&D 4 DEMO 5 INCOMP 6 ENGINEE 7 QC HOLD 8 RMA 9 STAGING 10 SCRAP 11 RESERV 12 Area-12		The effected of no longer be receive into or of these areas as hidden. No user be able stockroom to move qtys in th	allowed to invoice out s checked or would the to use the adjust or
Wp_temp							Record: 1/1	E	Exclusive	P	· //

### 16.2.4 Sarbane-Oxley Password Rules

pc/MRP version 8.23 and higher added the option to support Sarbane-Oxley password rules (Optional, Password, Default Settings); see below:



# 16.3 Infinite Bucket MRP Module

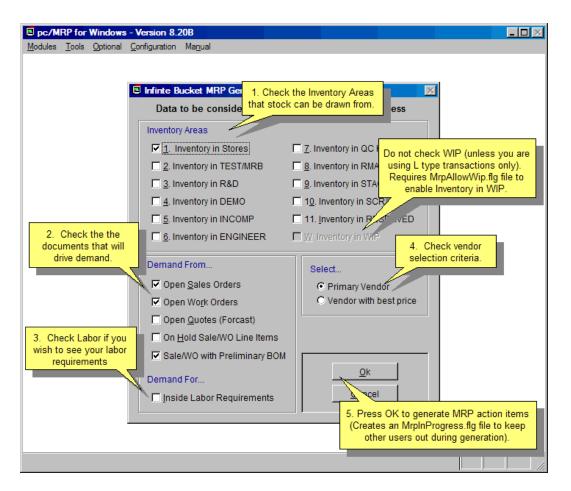
pc/MRP for Windows - Version 8.04E (User: D	oug)
	Generate Action items         Display Generation Errors         Print Action item reports         MRP Timeline         item Graph         Automatically create Purchase         Update the Date Require         Index the Action item date         Software         Generate MRP Action Items by selecting         Optional, Infinite Bucket, and Generate         Action Items. 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).
Creates an Action item database based on current program of	ata NUM //

## 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/mrpgenerate1.htm</u>

### 16.3.2 Activating pc/MRP's Infinite Bucket MRP Module

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. 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.



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 window above. The second window, shown above will allow you to select the inventory areas (stores, area2-area11, and WIP) to fill the requirements.

We recommend companies using the stock room's "I" type issue method to issue stock to manufacturing and "L" type issues to cover breakage and items missing on the BOM, do not select the "Include WIP" option. 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 and do not "Includes 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 manufacturing the 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.

We recommend companies using 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. With pc/MRP versions 8.16C and higher a file named "MrpAllowWip.Flg" must exist in the pc/MRP directory to enable the Include WIP option. This file can be created with Note Pad.

You must also select the items that will drive the demand open sales, open work orders and/or open sales quotes.

Work orders do not need to be created for sales orders as the stockroom can issue parts directly to sales orders.

If you do create work orders to fill existing sales orders, create work orders for sub-assemblies and check the work orders as consumable. 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.

If work orders are not meant to keep the plant busy and not fill existing sales orders, do not check the work orders as consumable. Check both Sales Orders and Work Orders to drive demand.

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.

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 will 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.

- SALE.....Existing open sales/work order for a part/assembly number
- 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

**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 generated 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 zero out and then update the quantity available field for each part in the part master. The quantity available field will contain the quantity available after allocation (onhand+POs-issues and sales action items). 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. While the QTY AVAIL field is the total of the ONHAND + existing POs - issues - sales. If the total 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 (it will use 0 if total quantity of the selected areas is <0) 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 higher-level assemblies reporting directly to a sales or work order. If it is a top-level assembly for a Page 583

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 as finished assembly.

pc/MRP will assign the driving a sales/work order to an 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 a sales order with an earlier due date requires this PO.

Sales Quotes with a date required less than the current date would not be used for the MRP run. 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 version 8.16C and higher will not allow users to check "Include Inventory in WIP" checkbox unless an empty text file created by Notepad named "mrpallowwip.flg" exists in the pc/MRP directory (usually pcmrpw).

pc/MRP version 8.16D and higher create a MrpInProgress.Flg file when ever an MRP is generated. This file will keep others from using the Infinite Bucket Module while the 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 version 8.20F and higher check for exclusive use of the action dbf file prior to allowing a person to generate an MRP. If the person generating the MRP gets an error message indicating the action dbf file is in use, it means another person is printing or displaying an MRP report. The person trying to generate an MRP must wait until the person generating an MRP report is finished.

pc/MRP version 8.20H and higher 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."

### 16.3.4 Print/Display Action Item Reports

Selecting Print/Display Action Item Reports brings up the following screen:

pc/MRP for Windows - Version 8.008 ( <u>M</u> odules <u>T</u> ools <u>Optional</u> <u>Configuration</u> Magu			
Infinite Bucket MRP Reports  All  All  All  All  for a Part Number  All for a Sales / Work Order Nur  All for a Product Code  All for a Buyer Code		For a good basic report of all action items with running totals by part number select All (action items).	
LEXCESS Inventory Report	C Daily	Display	
☐ Initial Onhand ☞ Purchase Orders ☞ BUY Actions	O Weekly O Mo <u>n</u> thly O Quarterly	Report Type Standard Costom	r
ISS <u>U</u> E Actions	Date Range		1
☑ SALE Actions ☑ Make Actions ☑ LABOR Actions	All Dates     Specified Date     From: //     To: //	Show Review Item Only     Save Settings     Ok Cancel	ar
	10. ] / /		
		NUM	

### 16.3.4.1 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:

		100%	- 🕨 🎒						
	E: 07/27/		FS(PO. BUY.	ISSUE, SM.	ACTION I			- DATE	
CTION	DRIVING	ТТЕМ		,	DESCRIPTION	QTY	START DATE	END	REVIEW
END DA	,-	05/2001							
BUY	000001	0000	SMI001	000000008		2	12/03/2001		
ISSUE	000001	0000			NGF INTERTUBE	2	12/05/2001		
BUY	000001	0000	SMI001	000000010	STEM FOR TUBE	2	12/03/2001	12/05/	2001
ISSUE	000001	0000		000000010	STEM FOR TUBE	2	12/05/2001	12/05/	2001
END DA	TE 12/0	07/2001							
BUY	000001	0000	SMI001	000000004	DIRT TEASER TI	2	12/05/2001	12/07/	2001
ISSUE	000001	0000		000000004	DIRT TEASER TI	2	12/07/2001	12/07/	2001
BUY	000001	0000	SMI001	000000009	SPOKES (WHEEL	80	12/05/2001	12/07/	2001
ISSUE	000001	0000		000000009	SPOKES (WHEEL	80	12/07/2001	12/07/	2001
MAKE	000001	0000		000000012	TUBE ASSEMBLY	2	12/05/2001	12/07/	2001
BUY	000001	0000	SMI001	000000013	BOLTS	8	12/05/2001	12/07/	2001

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 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 used at this time.
  - (SourceIss), Not used at this time.

Software Arts recommends printing the following non-consolidated report after generating an MRP. Deselect the Consolidated Check Box, if checked. Select "All" (action items) and include all action items (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.

If there is a question about a part number's action item quantities, run the following non-consolidated report. Deselect the Consolidated Check Box, if checked. Select "All for a part number" and include all action items (Initial Onhand Quantity, Purchase Orders, BUY, ISSUE, SALE, Make and LABOR) sorted by date. 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.

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 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.

### 16.3.4.2 Consolidated Reports

Checking the "Consolidated" check box allows you to print out consolidated MRP reports. 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 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:

nt Preview		×						
< < R		u a						
		BUCKETED MF	וס סי	POR	r			
DATE: 0	7/27/2001	BOOKETED M		3F 010			P	AGE:1
ALL, I	N DAILY BUCKETS,	SORTED BY PERIOD						
PERIOD	PART NUMBER	DESCRIPTION	POs	BUYS	ISSUEs	SALES	MAKES	LABOR
PER	IOD 12/03/2001							
2/03/2001	00000008	NGF INTERTUBE (NEVER GOES FLAT)	0	2	0	0	0	0
2/03/2001	000000010	STEM FOR TUBE	0	2	0	0	0	0
PER	IOD 12/05/2001							
2/05/2001	000000004	DIRT TEASER TIRE	0	2	0	0	0	0
2/05/2001	00000008	NGF INTERTUBE (NEVER GOES FLAT)	0	0	2	0	0	0
2/05/2001	00000009	SPOKES (WHEEL SPOKES)	0	80	0	0	0	0
2/05/2001	00000010	STEM FOR TUBE	0	0	2	0	0	0
2/05/2001	00000012	TUBE ASSEMBLY	0	0	0	0	2	0
2/05/2001	00000013	BOLTS	0	8	0	0	0	0
PER	IOD 12/07/2001							
2/07/2001	000000002	WHEEL	0	0	0	0	2	0

pc/MRP IB-MRP Consolidated Example Report

The consolidated MRP report (mrp2cons.frx) uses the mrp2cons.dbf file and includes the columns shown above.

Infinite Bucket MRP Reports  Comparison of the second sec		Sort by Part Number, Buver or Value of Excess Sort by Value of Excess
Include C All Items C Items without require More Inventory than C Both: Items without More Inventory	or Issue ments Onhand + PO qtys > Issue + Min Qtys Required For report to be	Send Report to Display Report Type ③ Standard ① Custom CUSMRP.FRX
Cost Standard Cost	<ul> <li>✓ Initial Quinand</li> <li>✓ Purchase Orders</li> <li>✓ ISSUE Actions</li> </ul>	☐ Sa <u>v</u> e Settings
Projected Date / /	SALE Actions	<u>O</u> k <u>C</u> ancel

Selecting the Excess Inventory Options will print/display a report similar to the report shown below.

	Print Pre	view B	-] <b>75%</b>	× • • 6	1			
<b>TE: 03/05</b> L PARTS,	2004 Pr FOR ACTION TYPES(ONHAND, PO, 1990	-		Invento BY THE VALUE	-	33	PAGE : 1	
RT HUMBER	DESCRIPTION	57D COST	оянаяр QT2	MRKE+PO MRKE QTY	ISS+SALBS USAGB QIY	ная бал	ONH+MAKB -USB-MIN BXCBSS QIY	C3 12
10001	ETARING S.DOOD X 1.0000 1.000000 33	10.0000	200.000	5.000	26.000	10.000	169.000	
0004	TIK	2.0000	10.000	10.000	0.000	0.000	20.000	
0012	<b>PLDIE OFFICE SUPPLY (NonLumentory Pa</b>	1.0000	5.000	0.000	0.000	10.000	0.000	
							Quantities and 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 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 the exectmp.dbf 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.

pc/MRP Versions 7.80Z, 7.83R and higher will display items without excess inventory if you select, "Include All Items". The Excess Inventory for items with out excess inventory will = 0.00.

### 16.3.4.4 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 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).

### 16.3.4.5 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 the "Update PO Dates & Zero out Cancelled POs." It is always advisable to produce a report first before updating the dates & quantities.

🧧 FOX C:\V800 (User: KIM)				- 🗆 🗵
Modules Tools Optional Configuration	Manual			
Infinite Bucket MRP Reports			×	
Push-Pull Report		Sort by		
Include You may allow pc/MR to adjust the PO date:		Date	•	
Update PO Dates Required	C Single Vendor	Send Report to		
Zero out cancelled POs		Display	•	
Init Check this box to zero	<u>All Buyers</u>	Report Type		
✓ Put any cancelled POs.	C Single Buyer	Standard C	Custom	
□ BU <u>Y</u> Actions	J	CUSMRP.FRX		
☐ ISS <u>U</u> E Actions	Date Range	10000mm 1100		
SALE Actions	<ul> <li>All Dates</li> <li>Specified Date</li> </ul>	□ Save Se	ttings	
☐ Make Actions	From: //	<u>) 04v</u> e 0e	ungo	
LABOR Actions	To: / /	<u>O</u> k	<u>C</u> ancel	
			NUM	9:52:31 am

If you select to update the PO dates and quantities, please heed the warnings below.

	nfinite Bucket MRP Reports		X				
	Push-Pull Report	•	Sort by				
	Include	All Vendors	Date				
	Include all Purchase Order Items	Cole Vendor					
	Update PO Dates Required	WAI	RNING!				
_	Zero out cancelled POs						
	Initial Onhand	All Buyers	Report Type				
	Purchase Orders	Single Buyer	Standard © Custom				
	BUYA		MRPFRX				
	When you check the "Update PO Dates Required" with or						
	without the "Zero out cancel	led POs", you will get the	2				
	message below asking for y advisable to "Save Settings"						
	this willautomatically update		y <u>O</u> k <u>C</u> ancel				
		enanily press fES!					
	User Confirmation is Required						
		ir currently selected report optic	-				
	Zeroing Out cancelled PO i	g Purchase Orders by updating tems.	the Dates Required and/or				
	Are you sure that you wan	t to alter your Purchase Orde	rs based on this report data?				
		Yes <u>N</u> o					

### **16.3.4.6 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).

### 16.3.4.7 MRP Buy Report

The MRP Buy Report uses the action data base file with the partmast.dbf as the child file. It displays buy action items using the Mrp2Buy.frx report form. This report uses the average cost from the partmaster.

### 16.3.5 MRP Time Line

The MRP Time Line can be used to display or print a graphical representation of the MRP requirements.

B MRP	Timeline		
VVind Siz		Filters Part# So/Wo #	Date Range         Reset            From:         05/29/2002            To:         12/12/2002
	Buy	PO Issue	Make Sale
Action	Part Number	Description	November /2002
BUY	00000008	NGF INTERTUBE (	4 000001 - 00WO Qty: 10
BUY	000000010	STEM FOR TUBE	4 000001 - 00WO Qtý: 10
BUY	000000004	DIRT TEASER TIRI	<b>4</b> 000001 - 00WO Qty: 10
BUY	00000009	SPOKES (WHEEL	📥 📥 0000 <mark>01 - 0</mark> 0W/O Qtý: 4 <mark>00</mark>
BUY	00000003	FRAME, BICYCLE I	🔶 📥 0000001 - 00WO Qty: 5
BUY	000000005	GEAR CHANGER /	0000001 - 00WO Qty: 5
BUY	00000006	BANANA BICYCLE	📥 📥 0000001 - 00WO 🔍 Qty: 5
BUY	000000007	PEDALS	🔶 📥 0000001 - 00WO 🔍 Qty: 10 💡
•	1	Þ	

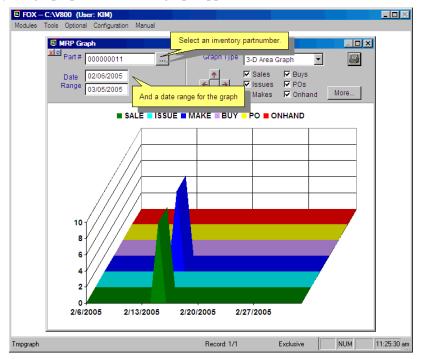
The MRP Time Line can display **All** actions, or just **Buy**s, open Purchase Orders (**PO**), **Issue**s, **Make**s, or **Sale**s. Actions can be further filtered by specific part numbers, sales or work order numbers, and specific date ranges.

# 16.3.6 MRP Item Graph

Choosing Item Graph from the menu will present a graph similar to the on show below.

FOX – C:\V800 (User: KIM)	
Modules Tools Optional Configuration Manual	
Choose 3-D Area graph or a Line g	Graph Type 3-D Area Graph Select the action items to graph.
Range 04/05/2005	Makes V Onhand More
MRP Graph Settings    Image: Onband Qty represents   Onband Qty represents   Image: Onband Qty represents <	Selecting More allows you to set the Graph Settings.
	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.

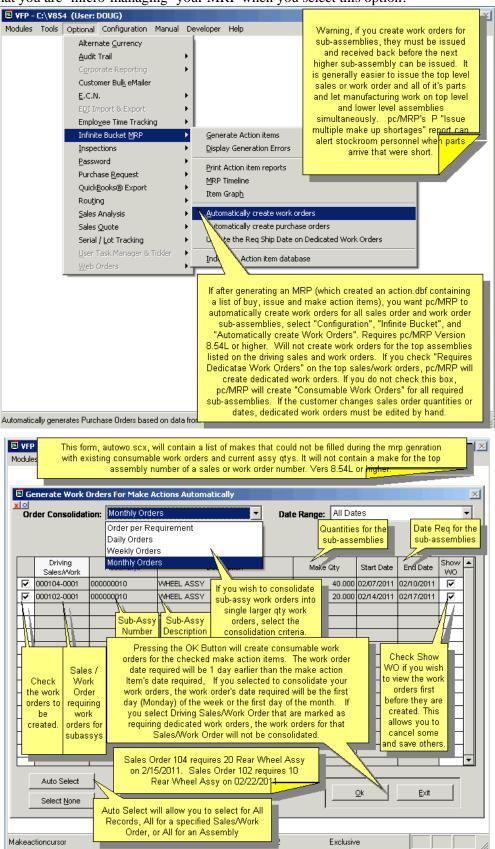


The print button in the upper right corner allows printing of the graph and / or data.

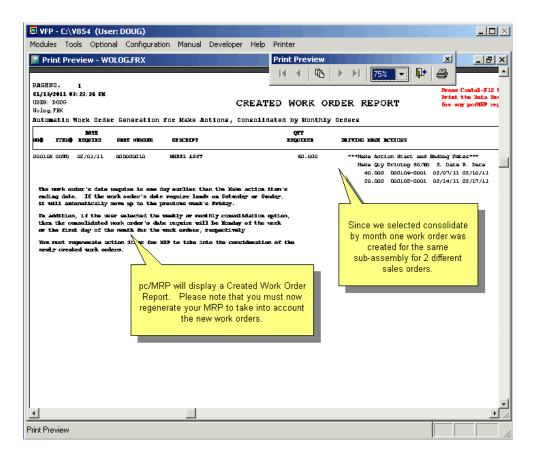
### 16.3.7 Automatically Create Work Orders

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

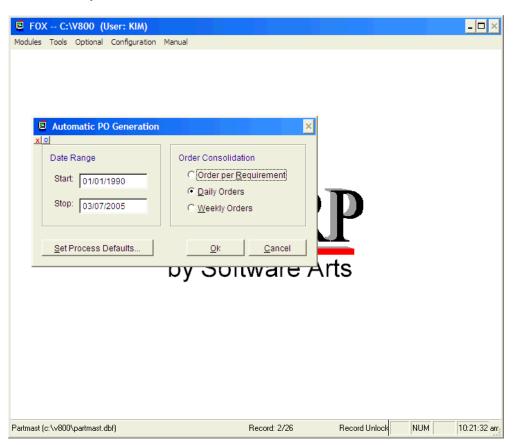
Please note that you are 'micro-managing' your MRP when you select this option!



📕 VFP - C:\V854	(User: DOUG)				
		rem) if y	ou checked the Sh rrk Orders Checkbo e work orders will b isplayed as shown	ox, pe	Eack
Customer	Billing / Shipping	Delivery	Item Info	Accounting Info	Next
Customer Address Street	Root Address Lookup		Account # Address Type Terms Customer PO#		Items/Notes
Ctty			Contact		Duratularum
State / Zip			Related Doc # AUT	Since we consolida	
Country Phone # e-Mail			Territory Region Entered By DOL	the first day of the m consolidated by week by the first day of the	onth. If we had t would be due
Comments	Unit Sale Price	RRENCY 💌		uire Button t this wo Serial Number	e Finished to create rk order Finished
	ty Driving S0/W0 S 00 000104-0001 02			Location Consumable	<u>C</u> ancel
Serial Number			order, Pre	ss the Cancel Button	



### 16.3.8 Automatically Create Purchase Orders



If the purchase buy requirements 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 "Weekly Orders" will consolidate all POs for the same part number required for the week into one PO line item.

Selecting "**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 100 limit is exceeded.

If a user does not have **Purchasing**, **Enter/Edit** rights, the "Automatically Create Purchase Orders" option will not be enabled for the user on their **Infinite Bucket** menu.

pc/MRP will insert the vendor's related document number field into the PO for that vendor.

With version 7.82 and lower, pc/MRP will only select VENDOR 1. With versions 7.83 and higher, 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 in versions 8.20H and higher for users having only 'View' options for the MRP module.

### 16.3.9 Automatically scheduling MRP runs with pc/MRP's plug-in

This plug-in has been replaced with the pc/MRP Scheduling Interface in Version 8.00

### 16.3.10 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.

### 16.3.11 Trouble Shooting The Infinite Bucket Module

### 16.3.11.1 Infinite Bucket reports appear to be wrong

If the quantities in the Infinite Bucket reports appear to be wrong, please do the following:

If any errors are reported after the MRP run was generated, correct the errors and re-generate the MRP. 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 a non-consolidated report. Include all action items for a specified part number sorted by ending date. This report will clarify where the quantities are coming from. Repeat this step for any other part numbers you wish to verify.

## 16.3.11.2 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 17.3.17

### 16.3.11.3 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.
- Sales Order number is less than 6 characters in length. Update to pc/MRP versions 8.50AM and higher or 8.55F and higher

# 16.3.11.4 The action item report shows multiple 'Builds' and 'Sale's 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'. **Do not** check 'Fix' at this time. Verify that **all** of the first of the duplicated part numbers 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 not all of the partnumbers are the one you wish to keep, please call Software Arts before you do anything!

# 16.4 Bar Code Module

## 16.4.1 Overview

Software Arts offers an optional 3 of 9 or UPC Bar Code True Type fonts that can be inserted into any pc/MRP form or label using pc/MRP's custom report writer. Bar coding increases efficiency and inventory control accuracy. A retailer from a large grocery chain once remarked, "We are on such tight margins, with so little room for error; we do not trust clerks to enter \$6.95 let alone an 18 character part number". To print bar coded labels you will need to purchase True Type Bar Code Fonts from Software Arts or another vendor who markets True Type Bar Code Fonts. To read the bar coded labels you will need to purchase a bar code wand.

### 16.4.2 Wedge Type Bar Code Wands

pc/MRP will work out of the box with any wedge type barcode reader. A wedge type bar code reader is defined as a bar code reader that inserts itself in between the computer key board and the CPU unit (i.e. the keyboard plugs into the wedge bar code 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 (16.4.7)

### 16.4.3 Portable Bar Code Wands

Portable bar code 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 bar code 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, you or one of your programmers must create the program. The Unitek HT630 comes with a built-in program (16.4.7)

### 16.4.4 Activating and Installing Software Arts Bar Code Font Option

While in pc/MRP,

- 1. Go to Configuration, About pc/MRP
- 2. Press Ctl-'B'
- 3. Enter activation code.

C39BCF.exe will be installed in a pc/MRP Subdirectory named BarFonts. The next time you start pc/MRP, pc/MRP will be automatically run the C39BCF.exe and install the bar code fonts on your local workstation.

If the fonts do not install, right click on the pc/MRP Shortcut on your desktop and select, Run as Administrator.

If the fonts 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 do not install, call Software Arts and have them download the TTF files from one of their developer directories. Once they are into a workstation directory, right click on each one and select Install.

### 16.4.5 Modifying a report or label to use bar codes

To modify a report or label, use pc/MRP's report generator, Configuration, Utilities & Settings, Option 24. Select Form or Label, select the report or label file name, select object such as part number, select font, and select a barcode font. 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:

"\*" + UPPER(ALLTRIM(PARTNO)) + "\*" or BAR39STR(PARTNO)

Note: Acceptable alpha-numeric values for the Bar Code reader are: 1234567890ABCDEFGHIJKLMNOPQRSTUVWXYZ-.\$/+% and 'space'

And Bar code fonts may be listed as:

- 1. BC C39 3/1 HD Medium,
- 2. BC C39 3/1 HD Narrow,
- 3. BC C39 3/1 HD Wide,
- 4. BC C39 3/1 Medium,
- 5. BC C39 3/1 Narrow,
- 6. BC C39 3/1 Wide,
- 7. BC UPC HD Wide

In a Windows 7 Fonts folder, #s 1, 2, and 3 are grouped together as are #s 4, 5, and 6.

To create a custom part label with a bar coded part number you would.

- 1. Go to the Configuration menu
- 2. Select Settings & Utilities (enter configuration code)
- 3. Select Report Writer (Option 24)
- 4. Select Label
- 5. Select PARLABEL.LBX in the file menu screen
- 6. Save the PARLABEL.LBX as CPARLAB.LBX
- 7. Click on the part number object,
- 8. Select FONT, select 'BC C39 3/1 Medium', regular, 26 points
- 9. Click on the part number object and change it from partno to read either: "\*" + UPPER(ALLTRIM(PARTNO)) + "\*"

or

BAR39STR(PARTNO (Preferred)

To print your custom part number labels:

- 1. Go to the Inventory Module
- 2. Select Labels
- 3. Fill out the selection screen
- 4. Select custom.

### Controlling Bar Code Widths

With normal true type fonts, the width of a character is a % of the height of the character (point size). If you reduce the point size of the object the width of each character is reduced. pc/MRP's true type barcode fonts are mono-spaced, meaning each character in the font set are the same width. You can select the true type bar code font that best fits your application. For example:

The low-density wide format has a height to width ratio of 1:1 If you select 36 points (1/2" high each character will be 1/2" wide)

The low-density narrow format has a height to width ratio of 3:1 If you select 36 points (1/2" high each character will be 1/6" wide)

The high-density fonts are narrower yet, and are designed for laser and CCD scanners.

### 16.4.6 Downloading data from a UniTech's HT630 Bar Code 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 bar coded 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		
File       Transfers       View       Help         Image: C:\       Image: C:\       Image: C:\       Image: C:\         Name       Image: C:\       Image: C:\       Image: C:\       Image: C:\         Image: Image: C:       Image: C:\       I	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 Size server or your computer.	Size   Typ 52
+ 👷 webpage on 'Asp700\E' (L: + 👷 pcmrp_manual on 'Asp700\ + 🧝 Pdf on 'Asp700\E\Saw' (P:)	YE' (M:)       A confirmation window arrears press 'OK' or change the destine         )       Image: Confirmation window arrears press 'OK' or change the destine         Cransfer File Between PC and Portable       Image: Confirmation window arrears press 'OK' or change the destine	
	From:         A::\FORM.DAT         >>           To:         C:\         >>         F-630 - ? (A::\) F-630 - PT630 (A::\) info 35KB           Protocol:         Multi-Point	
<	OK Cancel	

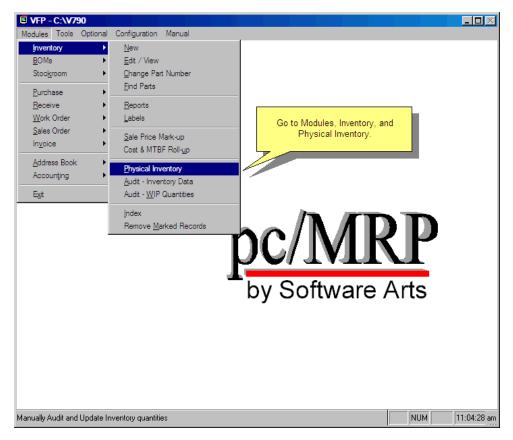
The program recognizes the Bar Code reader and displays the Form data file with the inventory data in the reader. Left-click on the file name and drag it to the directory structure you wish to save the file. This can be a server directory or your computer. Remember where you saved the data file.

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

A::\	
A::\FORM.DAT	
Name	
🖃 🖬 Portable	The PT630 will emit a few beeps aand
FORM.DAT	a message stating "UPLOADING
	Press any key"
	r tooo any noy
	You will also note that the programm,
	PTComm3, displays messages to let
	you know everything went OK.
	Just press any key on the PT630 and
	Sust press any key on the Proso and
<u> &lt; </u>	>
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:\FORI	A DAT"
File size: 52	NDAT
Uploaded bytes: 52	
Done	
	~
	X //
	COM1 NUM

### 16.4.7 Import the downloaded data

To import the data with the Physical Inventory or Cycle Count by going to Modules, Inventory, Physical Inventory.



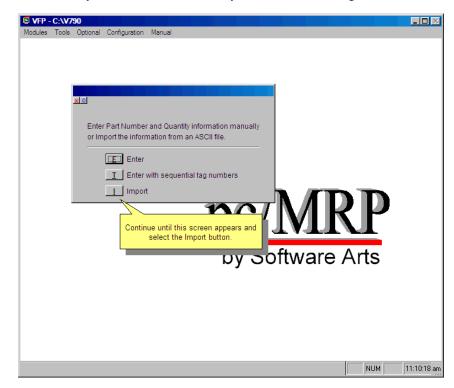
For this example, Choose Physical.

VFP - C:\V	790	_ 🗆 🗵
	a Optimie Configuration Menual	
	NUM	11:07:05 am

Select the area to receive the inventory counts.

pc/MRP for Window		<u> </u>
Modules Tools Option	Physical Inventory Counts with the current Ir Select the area you wish to enter counts into. Enter Physical Inventory counts with the current Ir Select the area you wish to enter counts into. Enter Physical Inventory counts for an Inventor or an areas Inventory Moveme 1 State a Co 2 State a Co 2 Stat	
	N	IM

Select "Import" to get the inventory data from the data file you created. (If using the HT630, see section 16.4.6)



### Next:

- 1. Select the saved inventory data file
- 2. Choose to append or replace counts
- 3. Press 'OK'

VFP - C:\V790		_ 🗆 🖂
Modules Tools Optional	Configuration Manual	
	NUM	11:14:08 am

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

The following screen appears (Hopefully you will not have any errors):

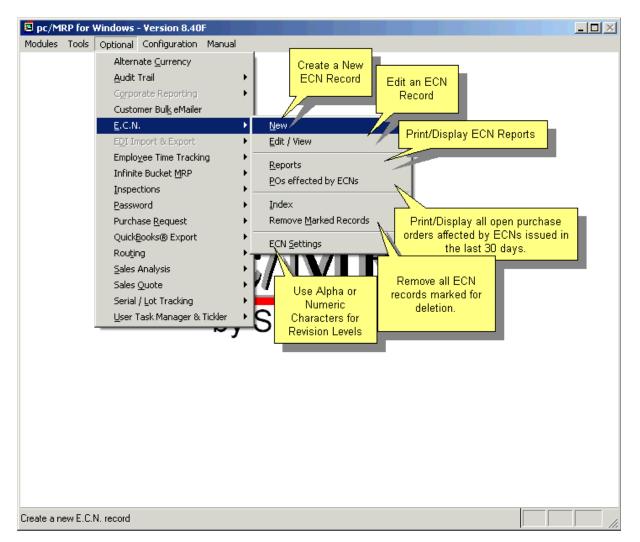
VFP - C:VV Modules Tools	790 Optional Configuration N	fanual				
× • 	2 errors were detected o	/ Print	et the message "The completed. No errors ad. you will get this			
	1	message. Print of problems before	ed, you win get this tut the errors and fix th e continuing with more s and areas.			
B (c:\docume~1'	.admini~1\locals~1\temp\406f	58726.dbf) Rec	ord: 1/2 Exc	lusive	NUM	11:19:00 am

Correct any errors and re-process individually or in the next import.

VFP				_ 🗆 🗵
Modules	Tools	Optional	Configuration Manual	
		x		
			A UDIT WIP (THIS IS THE FIRST STEP IF YOU HAVE WIP)	
			G GENERATE BLANK PHYSICAL INVENTORY FORMS	
			1 ENTER PHYSICAL INVENTORY FROM THE PRIMARY STORES AREA	
			2 ENTER PHYSICAL INVENTORY FROM AREA#2	
			Continue on as normal (see Sec	ction 6 in the
			4 ENTER PHYSICAL INVENTORY FROM AF manual).	a complete
			5 ENTER PHYSICAL INVENTORY FROM AF After your Physical Inventory is remember to do the 'U'pdate t	
			6 ENTER PHYSICAL INVENTORY FROM AF process to complete your Physi	cal Inventory.
			I TOTAL THE AREA COUNTS AND PRINT AV	
			UPDATE THE ONHAND QTY AND ZERG OUT THE TEAM COUNTS	
			H PHYSICAL INVENTORY HISTORY	
			B CANCEL	
			NUM	11:38:22 am

You may now continue as described in section 6.1.4 for your Physical Inventory.

## 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 which POs with 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 NUMBER** is then provided. Press to accept the new ECN number or enter a new ECN number. NOTE: If you enter an alpha character into the ECN number field, pc/MRP will not be able to automatically increment the ECN number.

ECN 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.

pc/MRP for Windows - Version 8.40F	
Modules Tools Optional Configuration Manual Selecting Optional, ECN, Ne	
selecting a part number will dis following screen	play the
Inditional and the second second second second second second second second second second second second second s	
Engineering Change Notice - [ Add ] ECN #, Item #, Part	or BOM #.
and Descriptio	n will
Item # 01	nserted.
ECN Date 05/28/2009	
03/20/2003 P	IRRP will automatically display the
	rent revision and the new revision.
Description BEARING 3.000D x 1.00ID 1.00WIDE SS	Enter a description of the
Changes CHANGED REV: ABC TO REV: ABD	changes.
ID Tolerance changed from +/001	
	ame of the Originator
Originator DSpencer En	ter the name(s) of the Approvers
Approved By RChesley, BWard	
Logbook Qk	<u>C</u> ancel
Press OK1	to Save the ECN Record. pc/MRP
will automa	tically insert the new revision level
Partmast (c:\pcmrpw840e\partmast.dbf) Record: 1/11	part number in the inventory file.

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 unless overwritten.
- The **ORIGINATOR** field contains the name of the originator of the ECN.
- The **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 **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. ECN 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:

- 1. Indexed Search tab
- 2. Desired Sort Order, ECN Number, Part Number, Date
- 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 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 return to the menu and select **REMOVE MARKED RECORDS.** 

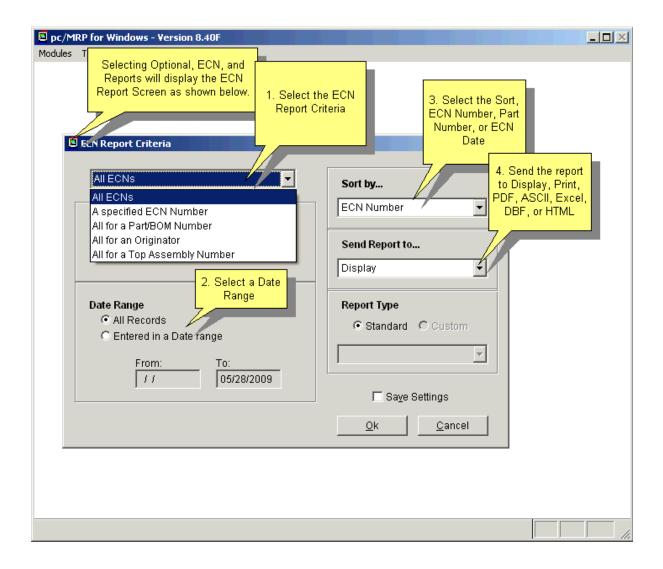
## 16.5.4 Reports (Print/Display Engineering Change Notices)

Allows you to print out or display Engineering Change Notices. Your options are as follows:

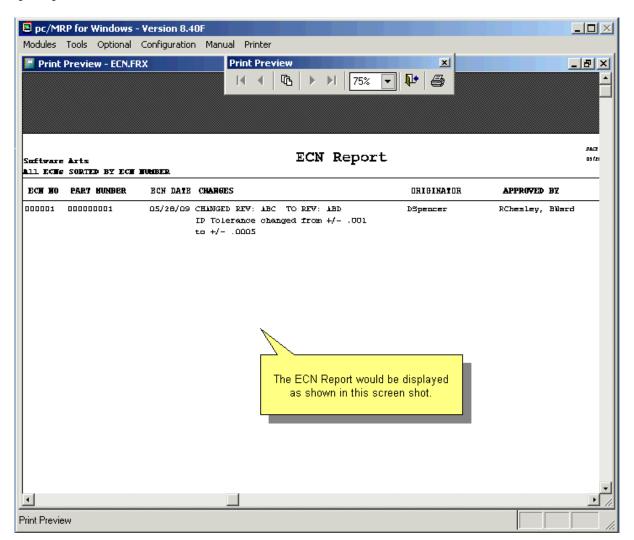
- ALL ENGINEERING CHANGE NOTICES
- A SPECIFIED ENGINEERING CHANGE NOTICE
- ALL ENGINEERING CHANGE NOTICES FOR A SPECIFIED MONTH
- ALL ENGINEERING CHANGE NOTICES FOR A SPECIFIED DAY
- ALL ECNs FOR A SPECIFIED ORIGINATOR

Any of the above may be sorted by:

- ECN NUMBER
- PART NUMBER
- DATE



Sample report:

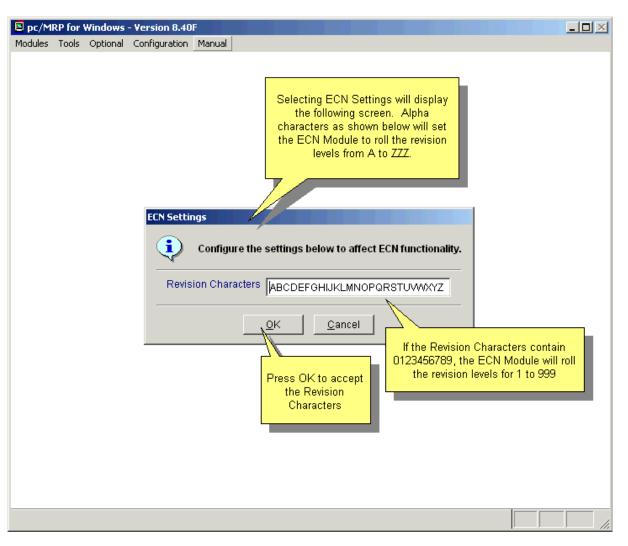


# 16.5.5 Purchase Orders Affected By ECNs

Selection 4 will allow you to print out or display all open purchase orders affected by ECNs issued in the last 30 days.

### 16.5.6 Index (see 15.14.3)

### 16.5.7 Remove Marked Records (see 15.14.4)



# 16.6 Sales Analysis Module

🗧 pc/MRI	P for	Windows					
<u>M</u> odules ]	Tools	<u>Optional</u>	<u>Configuration</u>	Ma <u>n</u> ual			
		Audit Tr Custom E.C.N. Employ Infinite I <u>Inspect</u> Passwo Purchas Quick <u>B</u> Routing Sales A Sales Q	er Bul <u>k</u> eMailer Bucket <u>M</u> RP ions ird se <u>R</u> equest ooks Export nalysis	) (g ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	Book to Bill Consolidated BOM Cost of Sale Estimated Usage / Min Qty Sales Trends	J	
Optional Mod	dule - S	ales Analy	sis				

# 16.6.1 Sales Analysis Overview

Sales Analysis will perform the following five functions:

**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.

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 Estimated Usage and Min Qty 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 of 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 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 cost of sales 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.

# 16.6.2 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.

# 16.6.3 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 or DBF file. 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.

<b>PAGE MO.</b> 1 03/23/2004			ALYSIS BY	CUSIOMER		
Tonth 02/01/2004 to 02/29/2004	Year 01/	01/2004 to 03/2 1 YEAR GOAL	BOORINGS For Nonth	BOOKINGS YEAR TO DATE	BILLINGS FOR MONTH	BILLINGS YEAR TO DAT
TERRITORY						
CANDOI CANA MANUFACTURING CORPOR	NATION	a.oooa	0.D000	0.0000	0.D000	a.oooa
** SUBTOTAL ** TERRITORY ROCK MTRS		a.000a	0.0000	0.0000	0.0000	a.000
BECDOI BEC NARUFACTURING COMPLEX	t	a.oooa	0.D000	0.0000	0.0000	a.000a
CALDOI CA STATE BDARD OF EQUALI:	NOITAS	a.oooa	0.D000	0.0000	0.D000	0.000
DREGON STATE BOARD OF EQU	ALIZA	a.oooa	0.D000	0.0000	0.0000	0.000
** SUBTOTAL ** TERRITORY SOUTH WEST		a.000a	0.D000	0.0DD0	0.D000	0.000
ABCOOL ABCD MANUFACTURING CORPOR	NOLLAR	1000.0000	, 20000.0000	1 60020.0000	0.0000	/ 20000.0000
** SUBTOTAL **	7	1000.0000	20000.0000	60020.0000 /	0.0000	20000.000
Add	y Quota from Iress Book r_quota)	Lood Total Sales (Amt2)	2000 Total Sales (Amt4)	The % Goa IIF(BAMT4	(BAm	es t4) Iculated Column OTA <> 0,100 *

#### **16.6.4 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
000000001	BEARING 3"	60	30.00
000000002	SPOKES	90	180.00
0000000004	HUB SS	40	20.00
		TOTAL COST	230.00

#### SINGLE CONSOLIDATED UNCOSTED DISPLAY FORMAT:

PART NUMBER	DESCRIPTION	TOTAL QTY
00000001	BEARING 3"	60
000000002	SPOKES	90
00000004	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		
000000004	RR - 89	HUB SS	FENWAY MFG	40.00	20.00
			TOTA	L COST	230.00

#### SINGLE CONSOLIDATED UNCOSTED PRINTOUT FORMAT:

PART NUMBER 000000001	MODEL NUMBER B30304	DESCRIPTION BEARING 3"	MANUFACTURER GENIS CORP	QTY REQ 60.00
	EII444444		STANFORE INC.	
000000002	SS 95495	SPOKES	ALLBRIGHT	90.00
	SS 95495		BRETTE MFG	
	40R-E-A		MANES INC	
00000004	RR - 89	HUB SS	FENWAY MFG	40.00

#### SINGLE CONSOLIDATED COSTED W PO HISTORY FORMAT:

PART NUMBER	DESCRIPTION LOCAT	E ONORDER ONHAN	ND QTY REQ STATUS	TOTAL COST
000000001	BEARING 3" 1A2	0.00 0.00	60.00 -60.00	0.00
	PO NUM VENDOR ID	PO DATE ORDER QTY	QTY RECVD UNIT COST	C
	000103 VMARS	06/06/93 400.00	400.00 0.5000	)
000000002	SPOKES 3A4	180.00 0.00	90.00 ОК	0.00
	PO NUM VENDOR ID	PO DATE ORDER QTY	QTY RECVD UNIT COST	C
	000505 SDI009	07/06/93 200.00	200.00 0.5000	)
000000004	HUB SS R5B1	50.00 50.00	0 40.00 ОК	0.00
			TOTAL COST	30.00

# MULTIPLE CONSOLIDATED PRINTOUT FORMAT:

BOM QTY	2 EA ASSY #	2 EA ASSY #	2 EA 2 ASSY #		2 EA ASSY #	TOTAL	PRICE	BREAF	C TOTAL	ONORDER	
ONHAND											
PART # DESC	000010	000015	000034	000235	003310	QTY	UNIT	COST	COST	QTY	
QTY											
00001 WHEEL	2	5	30	20	3	60		.50	30.00	5	5
00002 SPOKES	40	10	10	20	10	90		2.00	180.00	0	10
00004 HUB SS	5	5	10	10	10	40		.50	20.00	23	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.

# 16.6.5 Cost of Sales Report

Selecting Cost of Sales will allow you to generate a cost of sales report sorted on 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 disk as an ASCII or DBF file. 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.

## Sample Cost of Sales Report:

ACUDYNE, INC DATE XX-XX-XX								
		COST OF SALES	FROM XX/XX/XX	TO XX/XX/X	X			
BOM/PART # MARGIN								8
PRODUCT CODE TF- TF-C XX.XX	14	490.00	49.00	10.00	xx.xx	xxxx.xx	xxxxxx.xx	
TF-CW XX.XX	10	550.00	39.00	7.09	XX.XX	XXXX.XX	xxxxxx.xx	
TF-HC XX.XX	5	200.00	25.00	12.50	XX.XX	XXXX.XX	XXXXXX.XX	
SUB-TOTAL XX.XX	29	1240.00	223.00	9.71	XX.XX	xxxx.xx	xxxxxx.xx	
PRODUCT CODE SA-								
SA-2 XX.XX	8	360.00	45.00	XXX.XX	XX.XX	XXXX.XX	XXXXXX.XX	
SUB-TOTAL XX.XX	8	360.00	45.00	XXX.XX	XX.XX	XXXX.XX	xxxxxx.xx	
TOTAL XX.XX	37	1600.00	158.00	xxx.xx	XX.XX	xxxx.xx	xxxxxx.xx	

# 16.6.6 Estimated Usage And Min Qty Reports (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 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

• With older versions of pc/MRP, the date range must be left at the last 180 days or have a spread of exactly 180 days. If you have pc/MRP versions 7.80 AD and higher, 7.90AD and higher, or 8.00B and higher, 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, enter "SAV" into that part or assemblies CATINDEX field in inventory.

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 0 Filtering invoices for the specified time period Totaling quantities from invoices using the parts only method

P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED	NEW USAGE
PART 001 00000001	000001	24.0000	24.00
PART 002 00000002	000001	960.0000	960.00
P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED	NEW USAGE
PART 001 00000001	000002	24.0000	48.00
P/B ITEM BOM/PART NUMBER	INVOICE	QTY USED	NEW USAGE
PART 002 00000003	000003	48.0000	48.00
PART 001 00000001	000003	48.0000	96.00
PART 002 00000002	000003	1920.0000	2880.00

Dividing all usage quantities by 25.71 weeks

Replacing usage with new usage figures (units/wk)

PART NUMBER	DESCRIPTION	NEW USAGE	OLD USAGE	CHANGE
00000001	DENDING OF TO	4	4	0

00000001	BEARING 5 ID	4		0
00000002	SPOKES 10"	112	102	10
00000003	SPINDLE ALLOY	2	5	- 3

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

00000001		-	-	700	00	0	0	0
000000002	SPOKES 10" X .125	112	2	200	60	336	306	30
00000003	SPINDLE ALLOY	2	1	40	30	4	6	-2

# 16.6.7 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 or DBF file. 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 AN	ALYSIS				
PARTNO AMOUNT	DESCRIPT	QTY PER1	QTY PER2	QTY PER3	TOTAL QTY	AMT PER1	AMT PER2	AMT PER3 1	FOTAL
000000001 446.90	BEARING 3"	5	10	30	45	50.00	99.90	297.00	
000000002	SPOKES 10"	0	1	0	1	0.00	1.50	0.00	
000000003	SPINDLE ST	0	1	0	1	0.00	38.50	0.00	
000000010	WHEEL BASE	0	0	20	20	0.00	0.00	0.00	
486.90					67	50.00	139.90	297.00	

To Print/Display the Work Order Usage Report you would to 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.

# **16.7 Sales Quote Module**

### **16.7.1 Quote Module Overview**

🗵 pc/MRI	P for '	Windows			
<u>M</u> odules ]	<u>T</u> ools	Optional Configuration	n Ma <u>n</u> ual		
		Alternate <u>C</u> urrency <u>A</u> udit Trail Customer Bul <u>k</u> eMaile <u>E</u> .C.N. Employee Time Track Infinite Bucket <u>M</u> RP <u>Inspections</u> <u>Password</u> Purchase <u>R</u> equest Quick <u>Books Export</u> Routing <u>Sales Analysis</u> <u>Sales Quote</u> Serial / <u>Lot Tracking</u>	⊧ IT	New Edit / View Duplicate a Sales Quote Convert Quote to Order Print Reports	•
				<u>I</u> ndex Remove <u>M</u> arked Records Remove over⊻Years	
					_
Optional Mod	dule - S	ales Quotes			

The Sales Quote Module creates, edits, and prints out sales quotes. In addition it will 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 section 9, Sales Orders, for more detail.

# 16.7.2 Activating the Quote Module

To activate the module, select Configuration, Module Activation, and then Sales Quote from the menu, and enter a special configuration 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.

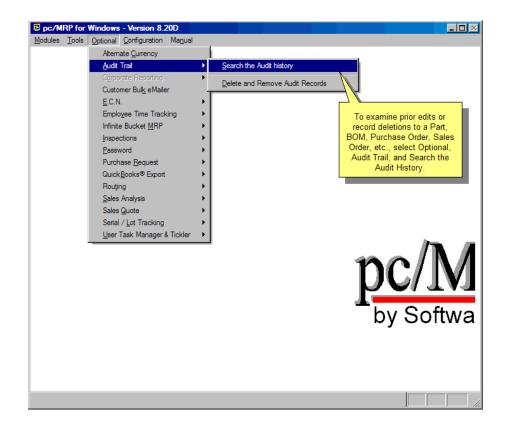
#### 16.7.4 Print/Email Sales Quotes

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.

#### 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. 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.

# 16.8 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.

pc/MRP versions 8.20N and higher will record any average, standard, or last PO cost changes due to cost rollups. If the cost change is due to a rollup, the item field on the report will contain the word "Roll".

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:

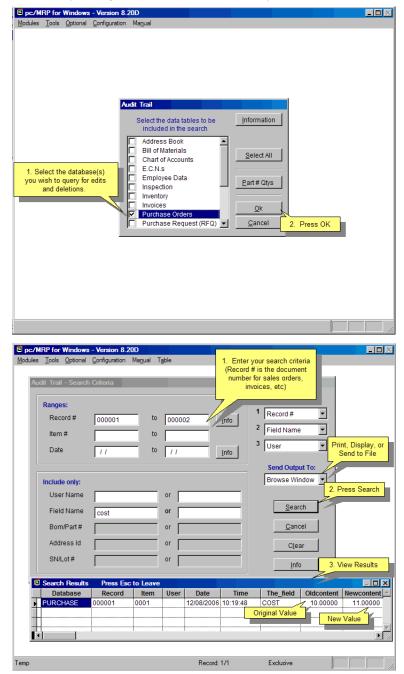
• Select Ten Day Trial

OR

• Call Software Arts (408-226-7321) to purchase this optional module, obtain your activation number and select Full Activation

# 16.8.3. Searching Audit History for any or all edits or deletions

To view prior edits and deletions made to Part, BOM, Purchase Orders, 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 based Selecting all databases while leaving all other criteria blank, would return every change that has been made everywhere.



To search for quantity changes for a partnumber, select receivers, qty rec, and edit each receiver to see if the receiver is for that partnumber. Repeat for Invoice & qtyship, Stockroom & qtyissued, Inventory & onhand & Partnumber. This is a laborious method. pc/MRP versions 8.29 and higher contain an easier method shown in 16.8.4. Unfortunately, updating to version 8.20 will not retroactively update the partnumber field.

# 16.8.4. Searching Audit History for any edits or Deletes that changed onhand or WIP Quantities

To find edits or deletions to receiver, invoice and stockroom records that could have effected stockroom and WIP quantities, click on the Part # Quantities Button as shown below. Please recall that editing the quantities on the receivers, invoices and stockroom transactions, do not change the quantities in the inventory file (the inventory file must be edited as well when editing the quantities of any of these files).

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.

<u>M</u> odules <u>T</u> ools <u>O</u> pt	nal <u>C</u> onfiguration Ma <u>n</u> ual	
	included in Address B& Bill of Mate Chart of Act E.C.N.s Employee C Inspection Inventory Invoices	rials counts Data Drders Request (RFQ) ▼ Qk Click on the Part # Qtys Butto to display all the edits and deletions that could have effecte the onhand and WIP qtys of a specific part number. This optic
		was added to pc/MRP Version: 814A and higer.
	- Version 8.20D Configuration Ma <u>n</u> ual T <u>a</u> ble	
	Configuration Manual Table	
ules <u>T</u> ools <u>O</u> ptional	Configuration Ma <u>n</u> ual T <u>a</u> ble Criteria 1. Ent left bl	ter a date Range. If lank date range will be unlimmited. 2 Field Name 3 Utser
Lules Tools Optional Audit Trail - Search Ranges: Record # Item #	Configuration Magual Table	ter a date Range. If lank date range will be unlimmited. 2006 Info Send Output To: Browse Window 3. Press Search
ules <u>T</u> ools <u>O</u> ptional Audit Trail - Searce Record # Item # Date Include only: User Name	Configuration Magual Table Criteria  Criteria  Criteria  Configuration  Configura	ter a date Range. If lank date range will be unlimmited. 2006 Info Send Output To: Browse Window 3. Press Search
Audit Trail - Search Ranges: Record # Item # Date Include only: User Name Field Name	Configuration Magual Table Criteria  Criteria  Criteria  Configuration  Configura	ter a date Range. If lank date range will be unlimmited.
Les <u>I</u> ools <u>O</u> ptional Audit <u>Trail - Search</u> Record # Item # Date Include only: User Name Field Name Bom/Part # Address Id	Configuration Margual Table Criteria to 12/01/2006 to 2. Enter a Pa 000000001 or or	ter a date Range. If lank date range will be unlimmited. 2006 Info Send Output by: 7 Field Name 3 User 2006 Info Browse Window 3. Press Search Gancel 4. View results of any edited receiver, invoice, or stockroom transactions that would have had an effect on stockroom

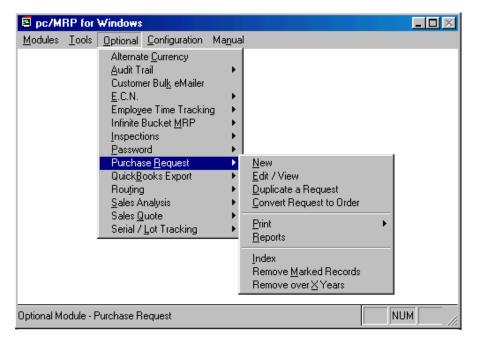
Record: 1/1

Exclusive

# **16.8.5 Deleting Audit Trail Records**

Because 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, press the "DELETE" button at the Audit trail opening screen. You will be asked to enter a number representing the number of day's worth of records that you want to retain. All others will be deleted. The default is 90 days, but you may enter anything from 30 days to 9999 days.



# 16.9 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 a special configuration number obtained from Software Arts, Inc.

#### 16.9.3 Creating and Editing a Purchase Request

The process of Creating and 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.

E	Conv	erting a Purchase Re	eque	st to a Purcl	hase Order	X
	Re	quest to Convert 000001 <u>S</u> croll		Vendor:	SMITH BIKE ASSESORIES ATTN: JILL SMITH 113 1ST STREET HILLFORD, CA	
	Item	Part Number	Des	cription		Quantity
	0001	000000013	BOL	.TS		5.00 📥
	0002	00000013	BOL	.TS		5.00
	Sele	ct <u>A</u> ll <u>U</u> nselect A	.11	Clo:	se All Items	<u>C</u> ancel

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 flagged 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 flagged as "Complete."

If the Advanced Password Module is activated, a person must have Enter/Edit or Deletion rights to the PO Module <u>AND</u> 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.

# 16.10 Serial/Lot Number Module

VFP - C:\V852 (User: DOUG) - 🗆 🗵 Modules Tools Optional Configuration Manual Developer Help Format Alternate Currency Audit Trail Corporate Reporting ۲ Customer Bulk eMailer E.C.N. Employee Time Tracking Infinite Bucket MRP Inspections Password Purchase <u>R</u>equest QuickBooks® Export Routing Sales Analysis Enter a New Master and or Detail SnLot Record Sales Quote Edit a Master and or Detail SnLot Record Serial / Lot Tracking New Print a Master and or Detail SnLot Record Edit / View User Task Manager & Tickler Þ Web Orders Print Serial Lot Number Reports Print Reports Audit Serial Lot Number Records Audit Index Serial Lot Number Records Remove Deleted SnLot Records Index Remove Records over X years old Remove Marked Records Remove over X Years Import Import SnLot Records from a .txt or .csv file. Requires pc/MRP Versions 8.52A and higher. Optional Module - Serial Number & Lot Number Tracking

An online slideshow is located here: http://www.pcmrp.com/mrp101/snlotoverview.htm

# 16.10.1 Serial/Lot Number Tracking Overview

**NOTE:** 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 issuing, receiving, 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 an invoice (I type transaction), or issuing a part(s) to manufacturing (S type transactions), will decrease the on hand quantity of the serial/lot number. Entering a receiver (R type transaction), receive back completed assembly (M type transaction) or entering a new serial lot number (J type transaction) will increase the on hand quantity of the serial/lot number.

The master snlot.dbf contains one record for every serial or lot number along with its current on hand quantity. The detail snlotdet.df contains one record for every transaction that would effect the on hand quantity of a serial or lot number. The file structure for these two databases can be printed/displayed using Settings and Utilities, Option 39.

pc/MRP for Windows - Version Modules Tools Optional Configurat			
Adding a Sn/Lot I	Aaster an 1. Enter the 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 1.000 0.0000	Vendor Lot Number Expire Date Revision	// ABC Enter Warantee
Related Document Item Number Document Type		Stock Transaction #	23/12/2008 cation of Certification Document View Certification Document
	Certification.doc Testresults.doc PH = 8.5, Nitrides = 70 ppm		Document View Test Document (8.25) ion of Test Documents (8.25A)
	Test Results (if app Version 8.25A and	licable) OK	
Partmast (c:\pcmrpw825\partmast.dbf)	Re	cord: 1/11 Red	cord Unlocked NUM

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.

If you wish to enter a serial number and initial quantity for a part or assembly, select '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. 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, 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 Lot/Serial Number field (snlotno) contains your serial or lot number.

The **Quantity** field (detqty) contains the quantity issued, invoiced, adjusted, or received.

The **Revision** field (revision) contains the revision level of that 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:

With this formula, if a BOM required 100 lb of a compound, but the compound was 90% pure (CorrectionFactor

 $Sn \operatorname{Re} t = Sn \operatorname{Re} t + Sn \operatorname{Re} t \left(-1 \left(Qty To Issue - \left(Qty To Issue / \left(1 - Correction Factor / 100\right)\right)\right)\right)$ 

= 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.

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 manufacturing. 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 were 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/lotnumber 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 or lot number. For example, the serial or lot number certification document could be stored here.

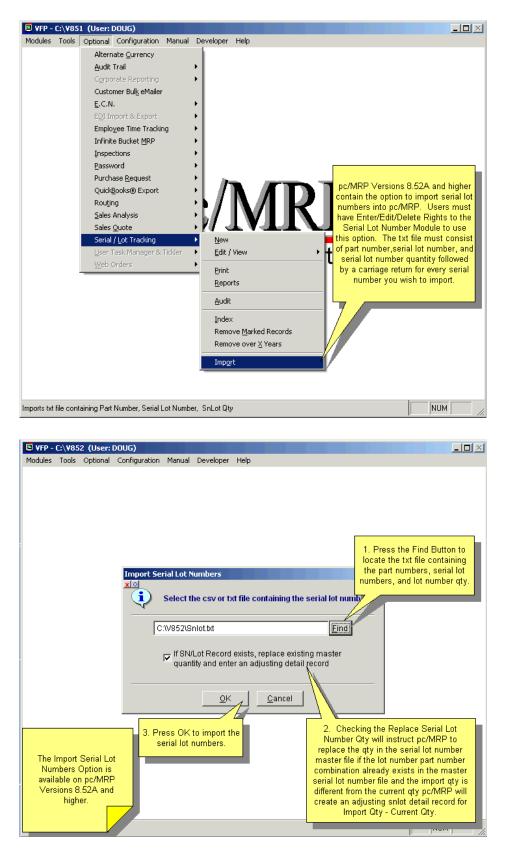
# 16.10.3 Entering serial lot numbers when receiving parts

After entering a receiver, pc/MRP will prompt, "Enter a serial lot number for this part number". If you answer "Y", the following screen will be displayed.

EVFP - C:\V852 (User: DO	ponfiguratio pc/MRP will Serial Lot Nu the following	ceiving serialized parts, Il ask if you wish to enter Imbers. If you answer Yes screen will be displayed.	With pc/MRP	al or Lot Number. Versions 8.52 and can click on the
	Document Type	000000001 R 000002 BBC001 04/27/2010 1236 1.000 ± Enter	Generate Butto insert the nex Number for t enerate Sn/Lot# Quantity Warranty Expire	n to automatically t available SnLot <u>hat partnumber.</u> The next available SnLot Number will be the next available number based on the highest SnLot Number found in the SnLot file for that partnumber.
	Expiration Date Vendor Lot Number Document Link	11 C:\V852\Certification.doc		or SnLot Number if any Locate Document if any Locate Text Document
If you are receiving multiple serial numbers for the same line item, press OK and answer Yes to enter another serial number.	Test Document Test Data	<u>C:\V852\Testresults.doc</u> PH = 3 <u>QK</u> <u>Cancel</u> 3. Press Ok to save SnLot Record.		Enter Test Data if any Document Link, Test Document, and Test Data available in pc/MRP Versions 8.25A and higher.

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.

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



The .TXT or .CSV file should not have a header row of column names.

# 16.10.5 Entering serial lot numbers when issuing parts to manufacturing.

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 issue the part(s) by serial/lot numbers.

Select the serial/lot number and enter the quantity required. Select Skip, to not issue any serial numbers. 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. 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))

In versions 8.25 and higher, the next screen will appear. If you do not use Test Data or Test Documents, just press the 'No' button.

pc/MRP f	r Windows	- Version 8.2	25B (Use	er: DOUG)			
<u>M</u> odules <u>T</u> oo	s <u>O</u> ptional	<u>Configuration</u>	Ma <u>n</u> ual	De <u>v</u> eloper	<u>H</u> elp		
			iou want i	to include s	After Issuing Parts to pc/MRP Versions 8.2 prompt you to inclu Number Test Data Document File Nam Stock Issue I st Data st Data	5 and higher will Ide Serial Lot and or Test ne on the the Report.	
D (c:\docume~1	\doug\locals	~1\temp\47957	7245.dbf)		Record: 1/2	Exclusive	NUM

Following a 'Yes' or 'No' answer, the following report will appear:

pc/MRP for Windows - Version 8.25B (Use Nodules Tools Optional Configuration Manual		
Print     Print Preview       J     Image: Constraint of the second sec	₩   ∰	
Software Arts Inc           BOM NUMBER         :00000010           BOM DESCRIPTION         :WHEEL ASS           DATE         :03/13/2000           QTY         :1.0000           SALES/WORK ORDER NO: 000002	Y MOD	EL NO:
STOCK ISSUE REPORT FOR ISS P/B ITEM BCM/PART NUMBER	UED PARTS INFINITE LEVELS D DESCRIPTION	LOCATE ONCE
SERIAL # QTY ISSUED           PART 0001 000000001           1236           PART 0002           Serial Number(s)	<b>T (D ) ()</b>	
[::\docume~1\doug\locals~1\temp\47957245.dbf]	Record E0F/2 Exclu	sive NUM

# 16.10.6 Entering serial lot numbers when receiving back completed assemblies from manufacturing

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 following screen will be displayed.

pc/MRP for Windows - V Modules Tools Optional Co	<b>/ersion 8.25B (User: DO</b> ) infiguration Magual De <u>v</u> elo	
	Serial Lot Number Entry	
	Part Number 10	00000010
	Document Type	4
	[	000003
	Cust/Vendor ID	
	Date 0	1. Enter the Serial or Lot Number
		2. Enter the Quantity,
	Serial/Lot Quantity	1.000
	Correction Factor	0.000
	Revision	3. Enter the Warantee Expiration Date if any
	Expiration Date 1	12/12/2008 4. Enter the Vendor SnLot Number if any
	Vendor Lot Number	Locate Document if any
	Document Link	C:\Pcmrpw825\Certification.doc Locate Text Document
	Test Document	C:\Pcmrpw825\Testresults.doc
	Test Data	Brightness = 92
If you are receiving multiple assemblies, press OK and answer Yes to enter another serial number.		QK     Ccel     Display Documents (if any) Versions       6. Press bk to save SnLot     Test Results (if any) Versions 8.25A and higher.     NUM

# 16.10.6.1 Printing out Receivers with Serial Numbers.

Invoice can be set to include Serial Numbers as shown on the screen below;

Modules Iool Print Prev RAD COHE 123 RICH PHON FAX: BBC ATTN 111	TVE TECHNOLOGIES MAIN STREET LAND, CA 92020-4406 E: 408-226-7321	Developer Help      With pc/N     8.22G ar     Receiver v     serial/lot nu     Configuratic     Utilities, Op     allow Rece	<u>Printer</u> Format IRP Versions dhigher, the ill contain the mbers provided n, Settings and tion 22 is set to vers to contain numbers.	GE NO. TE IP VIA NDOR INV CVD BY PO REQ NO DEBIT/CHRG	: 000001 : 1 : 12/04/200 : : DOUG, 16: : : NET30 : : BBC001	
ITEM		CRIPTION	Serial Numbe	OTYREC UN	IT	COST
0001 PODATE:	000000001 BEAF 11/24/07 ACTUAL DAT SERIAL LOT: 12345 123		07	2		10.0
NOTES:					SUBTO	TAL :
empinv (c:\doc	ume~1\doug\locals~1\temp\60834	673.dbf) Ri	ecord: EOF/1	Exclusive		

# 16.10.7 Entering serial/lot numbers when invoicing.

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.

Seria         1. Select Seria         ion for P:: + 000000010         WHEEL ASSY           Seria         Serial/Lot #         indor Lot #         Expire Date         Serial / Lot Qty         Issue Qty         Test Data         1 st Doc           \$456         12/12/2008         1.000         1.000         Brightness = 92         1C:\Pcmr	pc/MRP for Windows <u>M</u> odules <u>T</u> ools <u>O</u> ptional	Configuration When sele	ect the corre	erialized parts, oct serial or lot r			Test Data and Document Fields added to Version 8.25 and higher.
Image: state in the state	Sena		Expire Date 12/12/2008 2. Enter 0	Serial / Lot Qty 1.000 Qty and repeat	1.000	/	
Issue Requirement     Select Manual to manually enter serial numbers that do not presently exist in pc/MRP.     3. Press Ok       Quantity Needed     1.000     Ok       Issued     0.000     Skip       Remaining     1.000     Manual SN/Lot Entry	Issue Requiremen Quantity Nee Iss	eded 1 sued (	ent not p 1.000	er serial numbe	rs that do	<u>S</u> kip	

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 or use that serial lot number.

Select Skip to not issue any serial numbers.

# 16.10.7.1 Manually entering serial/lot numbers when invoicing.

VFP - C:\V855 (User: DOUG) Modules Tools Optional Configuration If you selected to manually enter serial numbers for an invoice the following screen will be displayed. If you have pc/MRP's Barcode Module, the Barcode Manual Serial/Lot number entry for Part # 000000001 Checkbox will be visible. If checked it will allow the x o Issue user to scan in the SnLot Number and add it to the Serial / Lot # Expire Date Quantity above list without hitting the Add Button. This 12345 02/02/2011 1.000 function provides a sound indicating a good read or a 12346 bad read. Requires pc/MRP Versions 8.54N and 02/02/2011 1.000 higher. E Barcode This will create a serial lot number Serial / Lot # detail record in the snlotdet.dbf with the 123457 Add customer's id code in the sncv field. I Expire Date 02/02/2011 (Invoice) in the doctype field, and the Issue Qty Invoice number in the docno field. If a 1.000 🔶 master record exists for the serial lot Enter the SnLot number it will be decremented. With Number, Exp Date, **Issue Requirement** pc/MRP Versions 8.50Z, 8.50H and Qty and Press Add 10.000 higher if a master record does not exist Quantity Needed ŪΚ a master record will be created for O 2.000 Issued qty. With pc/MRP Versions 8.50Z, Remaining 8.000 8.50H and higher if a master record does exist, it will be decremented but not to below 0.

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

This will create a serial lot number detail record in the snlotdet.dbf with the customer's id code in the **sncv** field, I (Invoice) in the **doctype** field, and the Invoice number in the **docno** field. If a master record exists for the serial lot number it will be decremented. With pc/MRP Versions 8.50Z, 8.50H and higher if a master record does not exist a master record will be created for 0 qty. With pc/MRP Versions 8.50Z, 8.50H and higher if a master record does exist, it will be decremented but not to below 0.

# 16.10.8 Printing out Invoices with Serial Numbers.

Invoice can be set to include Serial Numbers as shown on the screen below;

ITEM     PARTNO     QTYORD     QTYSHIP     BKORD     UNIT     PRICE       0001     000000001     BEARING 3.000D x 1.00ID 1.00WIDE SS     S       555003-1     3     Serial Numbers     Serial Numbers       Part Number     Serial Number Quantity     Option 55 can be set to insert serial numbers for the Invoiced Items Only or the Invoiced Items and sub-components.       000000001     1238     1       000000001     1239     1       000000001     1240     1	pc/MRP for Windows - Versel Modules Tools Optional Config Print Preview Software Arts Software Arts PHONE: 408-226-FAX: ABCD MANUFACTUR ATTN: ACCOUNTS 1234567 SOUTHWE MOUNTAIN BILLS, USA-BILL SHIP VIA: UPS::Nex	Uration Manual Prin The Ser Cor Utili all ser 22 i ge 7321 ING BILLING PAYABLE ST BILL STREET CA 12345-BILL	a Invoice will contain the ial/lot numbers provided infiguration, Settings and ities, Option 55 is set to low Invoices to contain ial numbers and Option s not set to transfer the eneral info field into the invoice comments. SHI TC ADD	P ATTN: 123450 R MOUNT/ USA-SI	RDER       : 000104         RDER       : 01/17/2007         DOC #       : RELATED DOC/CC         N       : ROBERT BILL S2         R PH #       : 408-248-6445         R PO #       : 3334         : Origin
555003-1       3       Serial Numbers       Option 55 can be set to insert serial numbers for the Invoiced Items Only or the Invoiced Items and sub-components.         Part Number       Serial Number       Quantity       Option 55 can be set to insert serial numbers for the Invoiced Items Only or the Invoiced Items and sub-components.         000000001       1239       1       Option 55 can be set to insert serial numbers for the Invoiced Items on the Invoiced Items on the Invoiced Items and sub-components.	ITEM PARTNO	QTYOF	RD QTYSHIP	BKOR	D UNIT PRICE
	555003-1 ************ Part Number 000000001	Serial Numbers **** Serial Number 1238 1239	3 Serial Numbers		insert serial numbers for the Invoiced Items Only or the Invoiced Items and

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 invoices 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".

# 16.10.9 Printing Serial/Lot Number labels.

Select Modules, Inventory, Labels, Label Type of 'Parts'.

VFP - C:\V852 (User: DOUG)			
Modules Tools Optional Configuration Manual	Developer Help		
Parts  Scope  All Parts  All for a <u>Product Code</u> All for a <u>Division</u> One specific Part <u>Number</u>	Sheet Fed  Imanufacturer Imanu	Send Io         Print         Output Type         © Standard         © Custorn         © Barcode         Report Form         Saye Settings         Qk         Qk         Qk         Qancel         8.52A and higher contain t labels for every serial lot ber combination from the at has a quantity > 0. You les, Inventory, Labels, and Type Parts.	

### 16.10.10 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.

- 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**:
- 2. select the Indexed Search tab
- 3. Desired **Sort Order**, Lot/Serial Number, Part Number, Customer/Vendor #, Document #, and Vendor Lot Number
- 4. Enter the applicable data in the Begin Scrolling At: field
- 5. Select the desired Action, View or Edit
- 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 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.

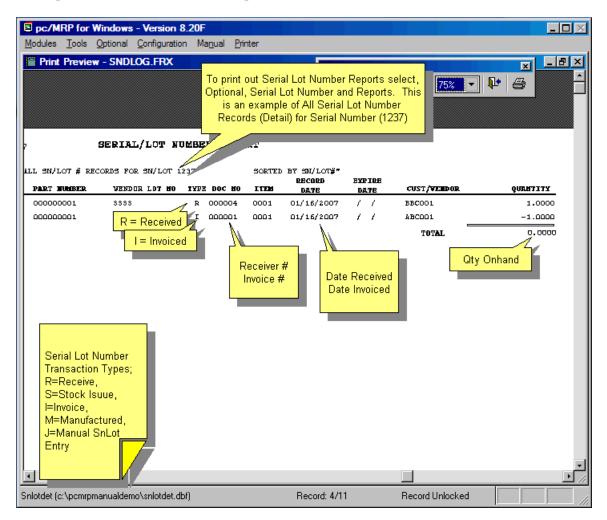
Every field within the Serial/Lot Tracking tables is editable. Users must understand several key things before editing Serial/Lot Tracking data.

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.

# 16.10.11 Reports (Serial/Lot Number Reports)

Selecting Optional, Serial Lot Number, Reports, Detail Report, All Serial Lot # records for a Serial Lot Number Record, will provide a Serial Lot Number Report as shown below.



The are two type of 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 (print/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 = PO receiver, s = stockroom issue transaction, m = receive back completed assembly from manufacturing, I = invoice, j = SN/L # manual adjusting and or and initial entries)

# 16.10.12 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 format of the report is displayed below:

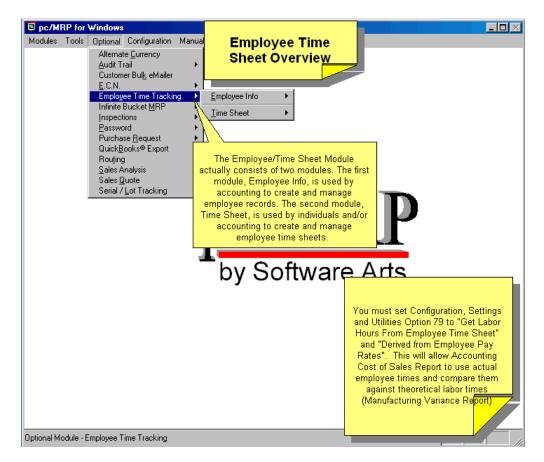
		Seria	al Lot	Number	Audit	Report		17/2007 J6:58
,	Part Description			Sn/Lot	No	Qty in Sn/Lot Detail	Qty in Sn/Lot Master	Qty in Part Master
01	BELRING 3.000D	x 1.00ID	1.00VIDE :	33 1235		0.000	0.000	
01	BEARING 3.000D	x 1.00ID	1.00VIDE :	SS 1236		0.000	0.000	
)1	BELRING 3.000D	x 1.00ID	1.00VIDE :	33 1237		0.000	0.000	
1	BEARING 3.000D	x 1.00ID	1.00VIDE :	SS 1238		0.000	0.000	
1	BELRING 3.000D	x 1.00ID	1.00VIDE :	33 1239		0.000	0.000	
1	BEARING 3.000D	x 1.00ID	1.00VIDE :	SS 1240		0.000	0.000	
)1	BEARING 3.000D	x 1.00ID	1.00VIDE :	33 1241	_	1.000	1.000	
					Totals	1.000	1.000	7.000
10	WHEEL ASSY			456	_	1.000	1.000	
							· · · ·	7.000 Jantity in ventory.

With the above information in hand, you could use the stockroom module to adjust the inventory on hand quantities to match the quantities in the Serial/Lot Module Master file. You could also enter adjusting transactions into the detail file to match the Master Serial/Lot quantities.

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 area6 (area2qty-area11qty).

# **16.11 Employee Time Sheet Module**

# 16.11.0 Employee and Time Sheet Module Overview



The Employee/Time Sheet 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: http://www.pcmrp.com/mrp101/emptimeactivate.htm

#### 16.11.1.1 Employee Information Module Overview

🗧 pc/MR	P for	Windows						<u>- 0 ×</u>
Modules	<u>T</u> ools	Alternat Audit Tr Custom E.C.N. Employ Infinite I Inspect Passwo Purcha Quick <u>B</u> Routing Sales A Sales Q	e <u>C</u> urrency rail ee Bul <u>k</u> eMailer ee Time Trackin Bucket <u>M</u> RP ions ord se <u>R</u> equest ooks Export nalysis	Manual	Employee Info Time Sheet →	New Edit / View Reports Index Remove Marked Settings	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.

# 16.11.1.2 Enter A New Employee Record

Selecting  $\underline{O}$  ptional, Employee Time Tracking,  $\underline{E}$  mployee Information, and  $\underline{N}$  ew 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. If the Employee ID field were to become corrupt, call Software Arts for instructions on repairing the data in this field.

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 above example, 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 Don	Initial S	Last Name Smith		SSN 888-88-8888
General	Pay	Тах	Í	Vacation /	Sick Time
Address1 123 Main Stre	et		Job Title	Engineer	
Address2 Suite 5			Job Class		
City Redmond	Stat	e CA 💌	Туре	Wage 🔻	
Zip 95051-1234	Country USA		Hired	10/10/2001	
Phone 408-248-6668	5 Ext 52		Released	11	🗖 Inactive
Phone2	Ext2	Com	ments		
Health Plan				outhern division	in fall 📃
[Un-Defined]					
[Un-Defined]					7
<u>D</u> elete				<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)				_ 🗆 X
Employee ID Salute	First Name Don	Initial S	Last Name Smith		3SN 888-88-8888
General	Pay	та:	<	Vacation / Si	ck Time
Esurina		GL Account#	Description		Rate
Earning		22100000	General hourly	rate 🛛	18.00
Pay Period		<u> </u>			0.00
Bi-Weekly	▼				0.00
					0.00
		<u> </u>			0.00
	GL Account#	Description		Amount	Limit
Addition,				0.00	0.00
Deduction, and				0.00	0.00
Company				0.00	0.00
Contribution				0.00	0.00
				0.00	0.00
Delete				<u>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	Name h	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
		Single Married		Allowances	0
Other		Married (One Income) Married (Two Income) Head of Household	🗖 Defe	erred	
<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	ntry)		_ 🗆 X
Employee ID Salute 000016 Mr 💌	First Name	Initial S	Last Name Smith	SSN 888-88-8888
General	Pay	Тах	Vacation / S	ick Time
Vacation				
Hours Accrued	0.00 Accural	Туре	Hours Accrued per Perio	od 0.00
Hours Used	0.00 • Per P	ay Period	Yearly Vacation Hou	rs 0.00
Hours un-Used	0.00 C Begin	nning Of Year	🗖 Reset at Begir	ining of Year
Sick Hours Accrued Hours Used Hours un-Used	0.00	Type 'ay Period nning Of Year	Hours Accrued per Perio Yearly Sick Hou Reset at Beginr	rs 0.00
Delete			<u>O</u> k	<u>C</u> ancel

# 16.11.1.3 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.

	<u> </u>
Modules Tools Optional Configuration Manual Developer Help	
Employee Database	
Indexed Search (Fastest) Queried Search	
Save Settings	
Name No Selections	
Go Top Begin Scrolling <u>At</u> . 1. Enter the last name of the employee 2. Press Si	earch
Go Bottom Smith Search	
EMPID LASTNAME FIRSTNAME JOBTITLE	
3. Select the employee	
If the employee is to be allowed to enter his own time sheets, the	
Employee ID must also exist in the	
password module. If the password module of th	
Employees ID, only accounting will	
be allowed to enter the employeesOkCancel	
4. Press 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.

#### 16.11.1.4 Print/Display Employee Records

		Sort by:
J		
	'EE LIST LOYEE PROFILE	Send report to:
		O Display
		O Print
Range:	C All Records	O ASCII Text file
	Entered date range	C Excel file
	From: <u>To:</u>	C DBF file
	4 /20/01 🔹 4 /20/01 💌	
		Report type:
Include:	Active and Inactive	Standard C custom
	C Active only	
	O Inactive	

Selecting **Report** 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)

# 16.11.1.6 Employee Records Settings

Selecting Settings from the employee menu will allow you to name any or all of the user-defined fields in the employee data entry screen.

# 16.11.1.7 Employee Module Technical Information

- Formset: Employee.scx
- Free Table: Employee.dbf
- Indexes File: Employee.cdx
- Tags:
  - BYEMPID=UPPER(EMPID)
  - BYNAME=UPPER(LASTNAME + FIRSTNAME)
  - o BYHIRDT=DTOS(HIRED

# 16.11.2.1 Time Sheet Module Overview

The Time Sheet Module shown above allows qualified users to enter, edit and print out employee time sheet records. If the password module were active, only users with accounting rights would be allowed into the Time Sheet Module. In addition, an employee would be allowed to enter a time sheet record for himself, provided his employee ID number has been entered into the password module.

#### 16.11.2.2 Enter/Edit/Delete Time Sheet Record

Clicking on the **New/Edit/Delete** button will bring up the Employee Scroll Screen. You must first select the employee for whom you wish to enter, edit or delete a time sheet record. 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.

Employee ID #: 000014 Name: Don S S	I.			Display: © One Da © One W		One Month Date Range	
Date	Job#	ltem	Start Time	Stop Time	Reg Hours	O.T. Hours	
							+
				otal Reg / OT:	00:00	00:00	•

#### 16.11.2.3 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.

iodules Loois Optional	- Version 8.40M			-0
	Configuration Manual			
				_
	📃 New Timesheet Recor	rd	Select the Sales or Work Order Number for the labor.	
	Work Date	Job # Item		
	7 / 9 /2009 💌	000101 0001		
	WHEELASSY		)thor	
	JUNEEL AGOT	Ŀ	<u>D</u> ther	
	Time:	Hours:	OR Select the Project or La	bor
	Start		Code for the labor.	
		t a Labor Code	Description	Á
	End 12345	6 Welding	Description	
	00:00	7 Assembly		
				_
			<u>O</u> k <u>C</u> ance	1
1 ( 1		D 1410	B	
oorcode (c:\pcmrpw840e'	Maborcode.dbr)	Record: 1/2	Record Unlocked	
pc/MRP for Windows odules Tools Optional	Configuration Manual			_ 🗆
	New Timesheet Record	rd	X	
	New Timesheet Recor Work Date	rd Job # Item	×	
		Job # Item		
	Work Date 7 / 9 /2009	Job # Item 000101 0001		
	Work Date	Job # Item 000101 0001	 The Hitting the Enter or Tab Key a entering the End Time wil	l –
	Work Date 7 / 9 /2009	Job # Item 000101 0001		l –
	Work Date 7 / 9 /2009 💌 WHEEL ASSY	Job # Item 000101 0001	 The Hitting the Enter or Tab Key a entering the End Time wil	l –
	Work Date 7 / 9 /2009  WHEEL ASSY Time:	Job # Item 000101 0001	 The Hitting the Enter or Tab Key a entering the End Time wil	l –
	Work Date           7 / 9 /2009           WHEEL ASSY           Time:           Start           08:00	Job # tem 000101 0001 Hours: Regular 03:00 *	 <u>Hitting the Enter or Tab Key a</u> entering the End Time wil automatically fill in the Regular	l –
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # tem 000101 0001 Hours: Regular 03:00 ÷ Overtime	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular	l Time.
	Work Date           7 / 9 /2009           WHEEL ASSY           Time:           Start           08:00           End	Job # tem 000101 0001 Hours: Regular 03:00 ÷ Overtime	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # tem 000101 0001 Hours: Regular 03:00 * Overtime 00:00 *	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # ttem 000101 0001 Hours: Regular 03:00 ± 0vertime 00:00 ± 00:00 ± 100 ± 00:00 ±	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular Hours text box directly.	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # ttem 000101 0001 Hours: Regular 03:00 ± 0vertime 00:00 ± 00:00 ± 100 ± 00:00 ±	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular Hours text box directly.	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # ttem 000101 0001 Hours: Regular 03:00 ± 0vertime 00:00 ± 00:00 ± 100 ± 00:00 ±	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular Hours text box directly.	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # ttem 000101 0001 Hours: Regular 03:00 ± 0vertime 00:00 ± 00:00 ± 100 ± 00:00 ±	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular Hours text box directly.	l Time.
	Work Date 7 / 9 /2009 V WHEEL ASSY Time: Start 08:00 End	Job # ttem 000101 0001 Hours: Regular 03:00 ± 0vertime 00:00 ± 00:00 ± 100 ± 00:00 ±	Hitting the Enter or Tab Key a entering the End Time wil automatically fill in the Regular You can skip the start and end times and enter the regular numbe of hours directly into the Regular Hours text box directly.	l Time.

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. 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. 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.

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.

## 16.11.2.4 Edit A Time Sheet Record

Employee: ID #: 000014 Name: Don S Smi	th			Display: O One Da O One We		• One Month O Date Range	
Date	Job#	Item	Start Time	Stop Time	Reg Hours	O.T. Hours	C ^
04/13/2001	000699	0001	08:00	10:00	02:00		0
							+
							-
							+
							$\pm$
•	1			I	1	I	
			т	otal Reg / OT:	02:00	00:00	
New	<u>E</u> d	t	<u>)</u> elete		<u>S</u> ave/Exit	<u>C</u> ance	el 🛛

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.

#### 16.11.2.5 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.

#### 16.11.2.6 Print/Display Time Sheet Reports

ALL TIME SHEET	Sort by:
ALL TIME SHEET	JOATE
ALL TIME SHEET FOR A EMPLOYEE	Send report to:
ALL TIME SHEET FOR A SALES/WORK ORDER	Oisplay
ALL LABOR COST REPORT	C Print
ALL LABOR COST FOR A EMPLOYEE	C ASCII Text file
ALL LABOR COST FOR A SALES/WORK ORDER	C Excel file
Range:	C DBF file
C All Records	
Entered date range	Report type:
S Enlored Gulo range	Standard C Custom
From: To:	
4 /20/01 • 4 /20/01 •	

Selecting **Report** from the time sheet menu will allow you to print out the following reports:

- All Time Sheets (emptimesh.frx, emptimesh.dbf)
- All Time Sheets for an employee(emptimesh.frx, emptimesh.dbf)
- All Time Sheets for a sales or work order (emptimesh.frx, emptimesh.dbf)
- All Labor Costs (emptimesh.frx, emptimecost.dbf)
- All Labor Costs for an employee (emptimecost.frx, emptimesh.dbf)
- All Labor Costs for a sales or work order (emptimecost.frx, emptimesh.dbf)
- Labor Hour and Material Cost for open sales/work orders issued to manufacturing (emplabor\_cost.frx, sales.dbf)

You can select the **Sort** for any of the above reports:

- Date
- Employee Number
- Sales/Work Order Number

You can select the **Date Range** for any of the above reports:

- All Records
- Entered date range

All custom reports listed in the drop down custom employee report list box must use the following naming convention, custim\*.frx.

# 16.11.2.6.1 Cost of Sales Report on Invoices with Component Costs from the Stockroom and Labor Costs from the Time Sheets.

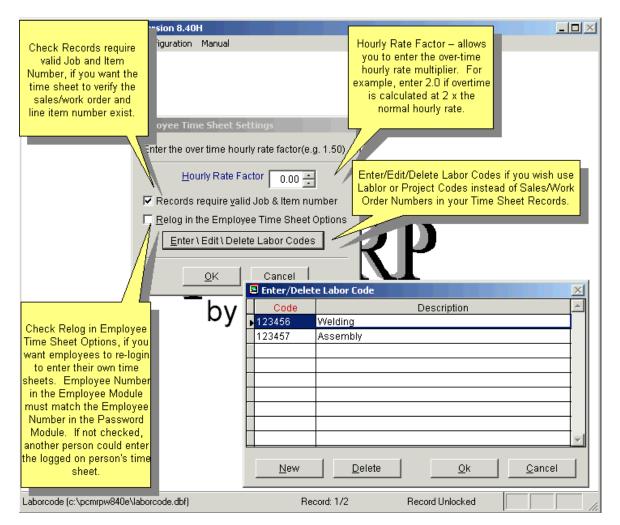
This report (costsald.frx) totals the actual inventory and labor costs for sales and work orders. The invoice.dbf file provides the selling price and the parent file for both the emptimesh.dbf and stockrta.dbf.

#### 16.11.2.8 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.

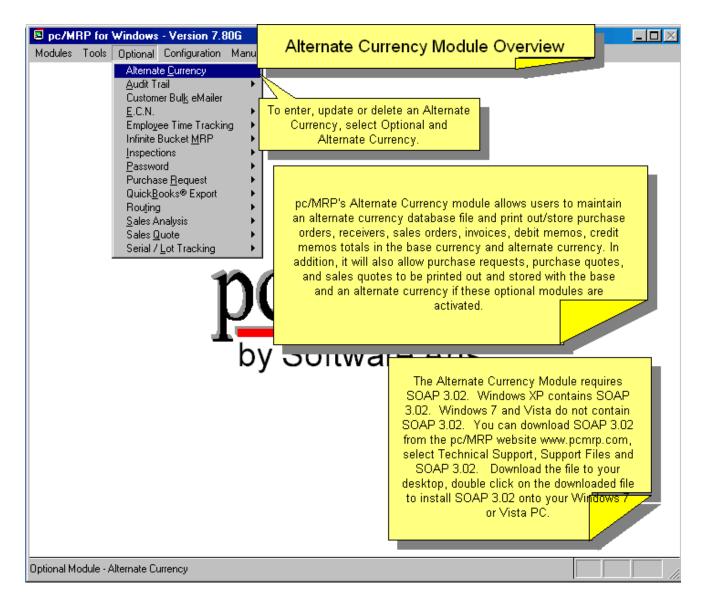
- Formset: Emptimesh.scx
- View: Vemptimesh
- Data base: MRPVIEWS.DBC
- Buffering Method: Table buffered
- Table Update Method: Uses formset's Commitchange() method
- Free Tables:Employee.dbf, EmpTimeSh.dbf
- Indexes File: Emptimesh.cdx
- Tags:
  - BYENOTIM=UPPER(EMPID+DTOS(ENTRYDATE)+STARTTIME)
  - BYDATETIM=UPPER(DTOS(ENTRYDATE)+STARTTIME)
  - BYSONOTIM=UPPER(SONO+ITEMNO)
  - BYPRIMEKEY=UPPER(PRIMEKEY)
  - BYENO=UPPER(EMPID)
  - BYDOCNO=UPPER(DOCNO)

#### 16.11.2.11 Time Sheet Module Default Settings



- Hourly Rate Factor allows you to enter the over-time hourly rate multiplier.
- 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 Alternate Currency Module



#### 16.12.1 Overview

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 and an alternate currency if these optional modules are activated. The Alternate Currency module uses SOAP 3.02. Vista and Windows 7 do not include SOAP 3.02. You must download SOAP 3.02 from our website, <u>www.pcmrp.com</u>. Select Technical Support, Support Files, and scroll down to the bottom of the page to "SOAP Toolkit 3.02".

An online slideshow is located here: http://www.pcmrp.com/mrp101/altcurselectoptional.htm

#### 16.12.2 Activating pc/MRP's Alternate Currency Module

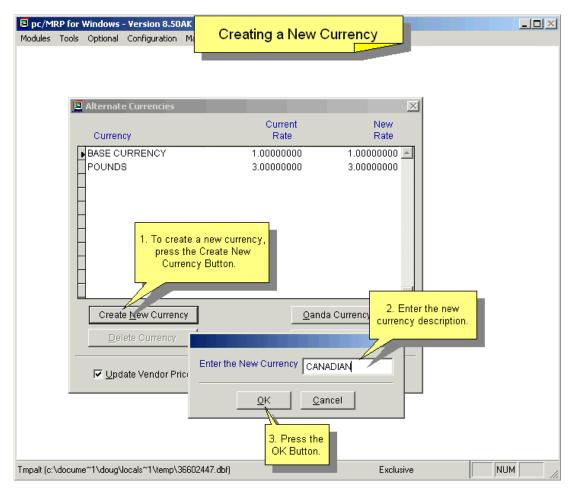
pc/MRP's Alternate Currency module can be activated by the phone by contacting Software Arts at 408-226-7321 and obtaining the activation code number for this module. Once you have obtained the activation code number, click on the Configuration Option in pc/MRP's top menu bar, selection Module Activation, and enter the activation code number when prompted.

### 16.12.3 Entering, Editing, Deleting Alternate Currencies

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 required.

The currency list will display all the currencies along with the current exchange rate and the new exchange rate.

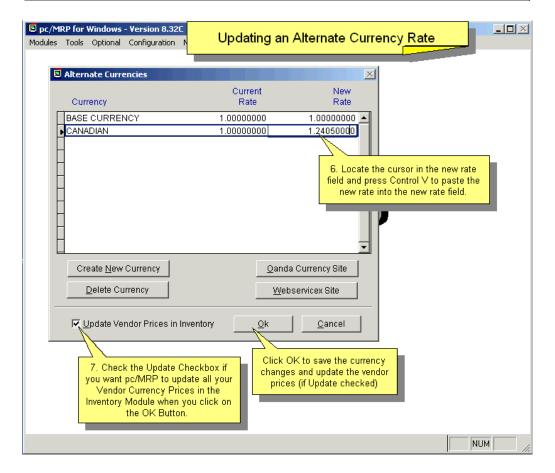
### 16.12.3.1 Creating/Entering a new Currency Rate



A new currency can be added to the database by pressing the Create New Currency button.

#### 16.12.3.2 Updating an Alternate Currency Rate

Alternate Eurrencies       Current       New Rate       The Webservicex Option is available in pc/MRP Versions 8.31J and higher.         BASE CURRENCY       1.00000000       1.00000000       1.00000000       The Oanda Web Site is an alternate manual way to look up alternate currency rates.         Create New Currency       Qanda Currency Site       1. Click on Webservicex Site         Delete Currency       Webservicex Site       1. Click on Webservicex Site         Verbaservicex Site       Select Alt Cur       The Conversion Rate         USD       CAD       1.24050000	pc/MRP for Windows - Version 8.32C Modules Tools Optional Configuration M	Updating an	Alternate Currer	ncy Rate
Currency       Current Rate       New Rate         BASE CURRENCY       1.0000000       1.0000000         CANADIAN       1.0000000       1.0000000         The Oanda Web Site is an alternate manual way to look up alternate currency rates.       The Oanda Web Site is an alternate currency rates.         Create New Currency       Qanda Currency Site       1. Click on Webservicex Site         Delete Currency       Webservicex Site         Webservicex Site       Image: Conversion Rate         USD       CAD       1.24050000	٦			
Currency       Rate       Rate         BASE CURRENCY       1.00000000       1.00000000         CANADIAN       1.00000000       1.00000000         He Oanda Web Site is an alternate manual way to look up alternate currency rates.       The Oanda Web Site is an alternate manual way to look up alternate currency rates.         Create New Currency       Qanda Currency Site       1. Click on Webservicex Site         Delete Currency       Webservicex Site       1. Click on Webservicex Site         Vupdate Vendor Prices in Im       Can Currency       Conversion Rate         USD       CAD       1.24050000	📕 Alternate Currencies		×	
CANADIAN 1.00000000 1.00000000 1.00000000 1.00000000 1.00000000 Versions 8.31J and higher. The Oanda Web Site is an alternate manual way to look up alternate currency rates. Create New Currency Qanda Currency Site Qelete Currency Webservicex Site Versions 8.31J and higher. The Oanda Web Site is an alternate manual way to look up alternate currency rates. 1. Click on Webservicex Site Versions 8.31J and higher. 1. Click on Webservicex Site Create New Currency Webservicex Site Currency Conversion Rate USD CAD 1.24050000	· · · · · · · · · · · · · · · · · · ·			
Delete Currency     Webservicex Site       ✓ Update Vendor Prices in Inv     From Currency       To Currency     Conversion Rate       USD     CAD				Versions 8.31J and higher. The Oanda Web Site is an alternate manual way to look up alternate currency
Update Vendor Prices in Inv         From Currency         To Currency         CAD         1.24050000	Create <u>N</u> ew Currency	<u>O</u> and:	a Currency Site	lick on Webservicex Site
✓ Update Vendor Prices in Inv       From Currency       To Currency       Conversion Rate         USD       ✓       CAD       1.24050000	Delete Currency	Web	servicex Site	
4. Click on Display to get Conversion Rate and Paste it into your clipboard.	-	From Currency To USD C, Display and Copy 4. Click on Conversion F	Currency Convers	ion Rate 1.24050000 Done 5. Click on the



#### 16.12.3.3 Deleting an Alternate Currency Rate

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.

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 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.

#### 16.12.4 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. The data entry screen also has a **Displayed Currency** list box that allows the user to convert the displayed costs/prices into any of the tracked currencies without actually changing the document currency. 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:

E pc/MRP for Windows - Version 8.32C Modules Tools Optional Configuration f	laying Alternate Currency in Forms	
Print Print Preview	B PO #: 000003	
SUPTIMUE ARTS 6930 UTA DEL DEL SUITE 109 SNM JUSE, CN 95195	SHEP VITA:         PO DATE:         03/20/2009           NUE::::::::::::::::::::::::::::::::::::	
PHOHE: 400-226-7321 FRC:	PURCHASE ORDER	
Vendor:	Ship To:	
DIGI-HEY ELECTRIDICS ATTE: JOHN DOE 1234567 HAIN STREET NOUNTALW VIEW, CA 12345-1234 USA	SOFTWARE ARTS 6430 VIR DEL DRO SUITE 109 San JOSE, CA 95133	
IIEM PARINO REV DESCRIPTION I	AIB REQ OIY UNII PRICE PRICE	Base Currency
	x 1.00ID 1.00WIDE 33 1BreakLrrow4BreakLou	Alt Currency
333030-1	(CATIAD LAT: 13.65 13.65	Base Currencγ
BUIES:	SUBTOIRAL: 11.00 *	Base Currency
	LBC: U.D.	Base Currency
The Alternate Currency Module will	TOTAL: CANTROLAM: 13.65	
allow users to print out purchase orders, invoices, sales orders, sales quotes and purchase request for quotes	TOTHES FOR PO NO: DOUDO3	Alt Currency
in both base and alternate currency provided the document's Currency Field		
is set to an alternate currency.		
Tempinv (c:\docume~1\doug\locals~1\temp\32785540.dbf	) Record: EOF/1 Exclusive	NUM

The currency and its respective ratio at the time it was entered will be stored with that document's record. If you print out the document at a later date, the currency ratio will be the ratio you originally entered and not the current currency ratio.

#### 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 can or is modified to handle the larger value.

#### 16.12.5 Alternate Currency and the Inventory.

The Alternate currency drop down list box on the first page of the inventory screen allows you to display the costs in the currency selected. The costs being displayed are based on the alternate currency rate \* cost stored in the base currency.

The purchase price screen contains two drop down alternate currency list boxes (**Displayed Currency** and **Vendor Currency**).

Setting and Displaying Alternate Currency in the Invent	tory Module
Inventory (Edit Mode)       2. Select the currency to be displayed.         Part # 000000001       Type Part - Inventory       2. Select the currency to be displayed.         Description       BEARING 3.000D × 1.00ID 1.00WIDE SS        Displayed Currency         Qtys \ Costs       Vendors       Sales Prices       Details 1       Details 2         Misc:       PO Ratio       Po Unit       Buyer       Last Vendor:         1.0000       POUNIT       KIM        Last Vendor:	Inspection Criteria CANADIAN BASE CURRENCY CANADIAN
Vendors     1. Select a Vendor     Vendor's CANA       ARROW ELECTRONICS     Ouantity       DIGLKEY ELECTRONICS     1       MOUSER ELETRONICS     1       New Vendor     Remove Vendor       If this vendor is to always get his set currency price, the Vendors Currency	DIAN
Vendor ID       DIG001          Vendor's Phone       980-112-1111       are alway going to pay in your set base currency price, this should be set to Base Currency.         Delete       Log Book       Part Status       Ok	0.0000 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 vendors currency prices
Displayed Currency	currency prices.

The "Displayed Currency" drop down list box controls what currency **all** 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 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).

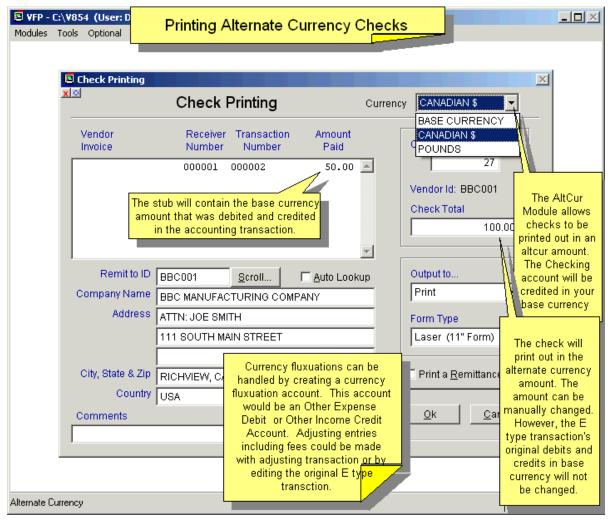
Example 1 - If a vendor from another country keeps his price the same but the currency rate changes and you select update costs/prices when recording the change, the alternate currency price will not change. However, the base currency price will change for all parts based on that currency.

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.

#### **16.12.6 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.



# **16.13 Inspection Module**

pc/MRP for	Windows	
<u>M</u> odules <u>T</u> ools	Optional Configuration Manual	
	Alternate Qurrency         Audit Trail         Customer Bulk eMailer         E.C.N.         Employee Time Tracking         Infinite Bucket MRP         Inspections         Password         Purchase Request         QuickBooks Export         Routing         Sales Quote         Serial / Lot Tracking	ecords
Optional Module - I	Inspection	NUM //

## 16.13.1 Overview

pc/MRP's Inspection Module allows users to:

- Create global inspection requirements applying to all inspection records by selecting the <u>Settings</u> 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 <u>New Inspection Record</u> 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/<u>E</u>dit 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 **<u>Reports</u>** option.

An online slideshow is located here: http://www.pcmrp.com/mrp101/inspectionoverviewselectinspections.htm

#### 16.13.2 Defining Inspection 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:
Show Inspection Requirements: ✓ When <u>R</u> eceiving from vendor ✓ When returned from <u>M</u> FG	✓ When Invoicing a customer ✓ When <u>Shipping to customer</u>
	<u>O</u> k <u>C</u> ancel

#### 16.13.2.1 Inspection Window Message...

Enter the text r	nessage to be	e display	ed on the i	inspection scre	en
Complete the in the discrepanc material on this applicable.	v/reason for re	jection a	and the dis	position of the	<u></u>
	<u></u> ĸ		<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** <u>**Templates**</u>

Templates:	Oh a shife a second	and a service of the	
Bolts & Screws.	-	al servicability and condition. Test thread	
,		riginal container with the factory seal intact	· · ·
Default Criteria.	<ul> <li>All items not cov</li> </ul>	ered by a specific criteria. The general co	ndition of the ite
Relays.	<ul> <li>1. Test for current</li> </ul>	ent and voltage minimums. Load test for 1	5 Minutes each 👘
Switches	<ul> <li>1. Test all contai</li> </ul>	cts for resistance restrictions.	2. EI
Vales	<ul> <li>1. Check bolt pa</li> </ul>	attern for proper alignment.	2. Che 🚽
Selected templa	ate criteria:	<mark>⊠</mark> <u>S</u> et as t	he Default Critreria
Default Criteria.		vered by a specific criteria. The general co or without any missing components or mat	

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 <u>New</u> button. To remove an existing entry select <u>R</u>**emove**. To edit an existing entry select the desired template from the top **Template:** 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** <u>All</u>. To set a specific criteria as the default criteria, select the <u>Set as Default Criteria</u> check box. When finished with any Criteria Template modification(s) select <u>F</u>**inished**.

#### 16.13.2.3 Exemptions:

Users can allow **Exemptions** to be entered as a valid part status by selecting the **Allow <u>E</u>xemptions** check box. Furthermore, the **Allow <u>E</u>xemptions** can be further protected by checking the <u>A</u>dministrator 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

There are two methods that will allow users to perform an inspection. Users can either select **Perform Inspections** from the Inspection module menu select one of the **Show Inspection Requirements** check boxes. When one or more of the **Show Inspection Requirements** check boxes are checked, when those actions are performed, the user will be allowed to perform an inspection. By example, in the **Inspection Module Settings** picture, having **When <u>Receiving from vendor</u>** and **When Invoicing a customer** checked, for inventory items that are set to have inspections performed during those actions, the inspection screen will pop up to perform the inspection while actually receiving and/or invoicing.

### 16.13.3 Defining Inspection Settings per Inventory Item.

		00001 Descriptio	m: BEARING
Solution         Check for general servicability and condition. Test thread specifical           Cleaners & Solvents         Must be in the original container with the factory seal intact. All nect           Default Criteria.         - All items not covered by a specific criteria. The general condition of           Relays.         - 1. Test for current and voltage minimums. Load test for 15 Minutes           Switches         - 1. Test all contacts for resistance restrictions.	C Default	C External File	When Invoicing a customer
Joints & Screws.         Check for general servicability and condition. Test thread specifical           Cleaners & Solvents         Must be in the original container with the factory seal intact. All neco           Default Criteria.         - All items not covered by a specific criteria. The general condition of           Relays.         - 1. Test for current and voltage minimums. Load test for 15 Minutes           Switches         - 1. Test all contacts for resistance restrictions.	Templates:		
Selected remplate criteria.	Relays. Switches	<ul> <li>1. Test for current and vo</li> <li>1. Test all contacts for res</li> </ul>	Itage minimums. Load test for 15 Minutes each
Bolts & Screws Check for general servicability and condition. Test thread specifica on a 2% sample selection. Verify that alloys are per specifiction in section 82.91.1 paragra	Bolts & Screws.	- Check for general servica	

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>Find File</u> 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 four different stages of use: when receiving parts from a vendor, when returning from manufacturing, when invoicing, and when shipping to a customer.

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
Date Created 04/26/2001 Inspection Qty 1.000	Vendor Id Vendor Name
	Another Save & Exit <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

There are two ways to perform inspections. Users can select **Perform Inspections** from the Inspection module menu or perform the inspection based on the action performed through the **Show Inspection Requirement When...** discussed above in the Inspection Settings 16.13.2.4.

If users select **Perform Inspections** from the Inspection module menu the following screen will be created. This screen allows users to select the desired grouping of inspections to perform.

Perform Inspections		
Sort By: 1 Date • 2 Inspection Type • 3 Document # •	Include Types: I⊽ <u>R</u> eceivers I⊽ <u>M</u> FG Returns	☑ Invoices ☑ <u>S</u> hipping
	<u>L</u> ist	<u>C</u> ancel

By pressing List, a list of all currently pending inspections will be created.

Туре	Doc#	ltem#	Date	Part#	Description	Quantity
Invoice	876578	7765	03/02/2001	000055555	TESTING AND TESTING	87.000
Invoice	000227	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000228	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000229	0001	04/09/2001	000000002	BEARING	1.000
Invoice	000230	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000231	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000232	0001	04/09/2001	000000001	BEARING	1.000
Invoice	000233	0001	04/09/2001	000000002	BEARING	1.000
Invoice	000234	0001	04/09/2001	000000001	BEARING	1.000
4						F
Pri	nt			Inspect	<u>E</u> xempt	Cancel

Users can then choose to **Inspect** the items or print the inspection requirements. If users choose to print inspection requirements, the following screen will be created. This screen allows users to print all pending Inspections by using the **Requirement List** radio button or individual **Inspection Requirements** using that radio button. User can further specify individual selected requirements or all requirements.

Printing Inspection Requirements	
Output Format	Send Output To Display
<ul> <li>Inspection Sheet(s)</li> <li>Selected Requirement</li> <li>All Requirements</li> </ul>	Form Type Standard C Custom CINSPECT.FRX
□ Save 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 8.04C (Use	er: DOUG)		_ 🗆 🖂
Modules Tools Optional Configuration Manual			
Inspection Form - (Edit Mode)			
Inspect #         0000000001           Record Type         Receiver           Document #         000001         0001	Part Number RES-0 Description RES, 1 Vendor Id/Name ABC00	100 OHMS, 5 VOLTE Displays Ins	ria
		Date Created     08/26/2005       Inspect Date     08/26/2005       Inspector     DS       Status     Accepted	
Discrepancies Enter the discrepancies	Corrective <u>Actions</u>	Inspect Qty 200,000 Accept Qty 197, 90 Rejected Qty 3 Fill	in the Inspected
The Customer's PO Number is automatically inserted into the Auxillary Field when entering an invoice. The Vendor's Invoice Number when entering a receiver.		Auxiliary an Delete The Auxillary Versions 8.0 can be used invoice numb	r, Accepted Qty, d Rejected Qty Field (pc/MRP 2 and higher) to store vendor ers, customer bers, 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 Page 666 pc/MRP V8.50

<u>Discrepancies</u> and <u>Corrective Actions</u> by selecting the applicable tab and typing in the provided comments area. When the inspection is complete, press <u>OK</u>.

#### **16.13.5 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.

Inspection Reports				
Report Choice				
All inspections			-	Sort By
Include	Limit To	Date Range		1     Date Required       2     Inspection Type       3     Part Number
Record Type	☑ Received ☑ MFG Return	☐ Invoiced ☐ Shipped		Send Report To
Status	☑ Not Inspected ☑ Accepted	☑ Rejected ☑ Exempt		Report Type © Standard C Custom
Text Comments	Discrepancy Text     Corrective Action Text			CUSINS01.FRX

# **16.14 Routing Module**

#### 16.14.1 Routing Module Overview

pc/MRP for	Windows	
<u>M</u> odules <u>T</u> ools	Optional Configuration Manua	
	Alternate <u>Currency</u> <u>Audit Trail</u> Customer Bulk eMailer <u>E.C.N.</u> Employee Time Tracking Infinite Bucket <u>MRP</u> <u>Inspections</u> <u>Password</u> Purchase <u>R</u> equest QuickBooks Export	
	Routing >	Enter Movement
	Sales Analysis   Sales Quote	⊻iew Movement
	Serial / Lot Tracking	<u>W</u> S Value Percentages ►
		<u>R</u> eports
		<u>I</u> ndex Remove <u>M</u> arked Records Remove over <u>X</u> Years
		<u>S</u> ettings
	-	
Optional Module - F	louting	NUM /

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.

#### 16.14.2 Activating the Routing Module

To activate the module, select Configuration, Module Activation, Routing from the menu, and enter a special configuration number obtained from Software Arts.

# 16.14.3 Creating a Routing Record for a Sales/Work Order (see the slideshow here: <a href="http://www.pcmrp.com/mrp101/routingsettingsmenu.htm">http://www.pcmrp.com/mrp101/routingsettingsmenu.htm</a>)

When ever 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 at area 1 is the same as the quantity issued and the quantity on the sales order.

B Ro	uting Module Settings					
X O	anny moudie octings					
			Finished			
Area	Long Name	Short Name	Goods	Goods	_	General Settings
1	Work Station 01	www.www			<u></u>	
2	Prilling	Drill	_ <u>U</u>			Auto Return Finished Goods
3	Vivek Station 03	Work 93				Allow Deletions
4	Modify Work Station		Work Stat	ion		Replaces
5	Long Name		rt Name			Adminis Stockroom's
6	W	Vork	_			Receive Back
7	Work Station 07	Work07				Allow Editing From Mfg
8	Work Station 08	Work08				Administrator Only
9	Work Station 09	Work09				
10	Work Station 10	Work10		If you al	hoole	a work station as the Finished
11	Work Station 11	Work11				on and Check the Auto Return
12	Work Station 12	Work12				moving a sales or work order
13	Work Station 13	Work13			-	area will allow pc/MRP to
14	Work Station 14	Work14				he qtys in WIP and increment
15	Work Station 15	Work15		the qty	of the	completed assembly without
16	Work Station 16	Work16		having		se the Stockroom's Receive
17	Work Station 17	Work17			Bac	k form Mfg Function.
18	Work Station 18	Work18				
19	Work Station 19	Work19		7	Che	cking the Shipped Goods Checkbox
20	Work Station 20	Work20				no effect on pc/MRP. But, it does
21	Work Station 21	Work21			allo	w you to indicate the sales order or
22	Work Station 22	Work22				work order has shipped.
23	FINISHED GOODS	FNSHGD			7 -	
24	SHIPPING PREP	SH-PRP			-	
25	SHIPPED GOODS	SHP-GD		3		<u>O</u> k <u>C</u> ancel
L				-		

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 and a short name 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 "Set as 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.

Work Flow Routing				
Work Order	000004-00WO [	Scroll		
Part Number Description	000000001 BICYCLE TOP ASSE	EMBLY		
Work Station Work Station	02         0.00           03         0.00           04         0.00           05         0.00           06         0.00           07         0.00           08         0.00           09         0.00           10         0.00           11         0.00           12         0.00           13         0.00           14         0.00	00       From Area         00       Work Station 01         00       To Area         00       Work Station 01         00       Work Station 01         00       Quantity         00       0.0000 ÷ Move         00       Output to         00       Display		
Work Station Work Station Work Station	16 0.00	00		

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 zero out all area quantities in that sales/work order routing record.
- The "Edit" button will display additional sales/work order information for that routing record.
- 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.

# 16.14.6 Entering WS Value Percentages

Selecting Optional, Routing, and WS Value Percentages brings up the following screen:

Optional Configuration Manual		
Alternate <u>C</u> urrency		
<u>A</u> udit Trail	•	
Corporate Reporting	•	
Customer Bul <u>k</u> eMailer		
<u>E</u> .C.N.	•	
Employee Time Tracking	•	
Infinite Bucket <u>M</u> RP	•	
Inspections	•	
Password	•	
Purchase <u>R</u> equest	•	
Quick <u>B</u> ooks® Export	•	
Routing	Enter Movement	
<u>S</u> ales Analysis	<ul> <li><u>View Movement</u></li> </ul>	
Sales <u>Q</u> uote	WS Value Percentages	Edit WS Percentages
Serial / Lot Tracking		
<u>U</u> ser Task Manager & Tickler	<u>R</u> eports	List Undefined BOMs
Export to Macola	• Index	Index
	Remove <u>M</u> arked Records	Remove Orphaned Records
	Remove over <u>X</u> Years	Default Percentages
	<u>S</u> ettings	

#### 16.14.6.1 Edit WS Value Percentages

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 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 screen shot below.

Routing Wo	rk Station Value	Percentag	es		×
BOM Number	00000010				
Description:	WHEEL ASSY				
www.ww	4.0000	Work11	44.0000	Work21	84.0000
Work02	8.0000	Work12	48.0000	Work22	88.0000
Work04	12.0000	Work13	52.0000	FNSHGD	92.0000
Work03	16.0000	Work14	56.0000	SH-PRP	96.0000
Work05	20.0000	Work15	60.0000	SHP-GD	100.0000
Work06	24.0000	Work16	64.0000		
Work07	28.0000	Work17	68.0000	<u></u> a	ave & Another
Work08	32.0000	Work18	72.0000	:	Save & Exit
Work09	36.0000	Work19	76.0000		
Work10	40.0000	Work20	80.0000		<u>C</u> ancel

#### 16.14.6.2 List Undefined BOMs

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.

#### **16.14.6.4 Default Percentages**

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 16.14.7

#### 16.14.5 Routing Reports

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

Routing Reports		×
All Records		Sort by Work Order Number
Report Type: ○ Quantity ○ <u>V</u> alue	<ul> <li>Consolidate by Part Number</li> <li>Open Router records only</li> <li>Group the report results</li> </ul>	Display       Report Type       Image: Standard Coustom
Date Range:		Saye Settings

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 Chapter 15.4.1 for more details)

# 16.15 Customer Bulk E-Mailer

#### 16.15.1 Customer Bulk E-Mailer 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**. (MS Outlook **ONLY**) 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 l	Jtility					_ 🗆	Х
Address List	<u>A</u> dd	<u>R</u> emove		<u>P</u> urge Address	List & Relo	oad	
Address Id	eMail Address				Sent	Bad	
	_						~
•						<u> </u>	
Messages to	Send 100	7				_	
8	Sort By Address I			<u>A</u> ttachmer	it List		
s						_	
Subject pc/MRP Newsletter Message File							
							-
<u>R</u> eports.				<u>S</u> end Mail	E <u>x</u> it		

# 16.15.2 Activating the Customer Bulk E-Mailer

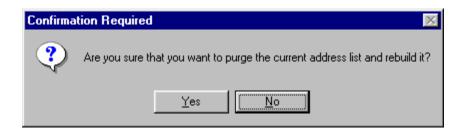
Select Configuration from the pc/MRP menu, Module Activation, Customer Bulk E-Mailer, Activate, and select the radio button for either a Ten Day Trial or call Software Arts for the full activation number and enter the activation number.

Activating the Customer Bulk E-Mailer will allow users to now access the module through the drop down menu Optional.

#### 16.15.3 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 Email 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 address 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					
	<u>O</u> K <u>C</u> ancel				

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 option52 in the settings and utilities and are set per address entry in the Address Book via the **Addr Type** drop down menu.)

If users wish to automatically create a list, simply select the desired address type or all addresses, and press the OK button.

If users 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 Email Utility** screen and the list will be created according to the specifications entered.

#### 16.15.5 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 **eMail Address** field. From there the address can be edited accordingly.

To remove an entire address from the list simply select the address entry, and press the Remove button.

To add an additional address simply 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 email. To define the subject of the e-mail, simply 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					
	<u> </u>				
	<u>v</u>				
<u>A</u> dd <u>R</u> emove <u>O</u> K	<u>C</u> ancel				

From within the **Email Attachments** screen users can **Add** and **Remove** attachments as needed. Once users 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 imbed 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.

Due to differences in **MS Outlook 97** and **MS Outlook 2000**, users must embed the file differently pending on what Outlook version they are using. To embed a file into an e-mail using **MS Outlook 97** users must use the **OTF** file type (office template file). 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.

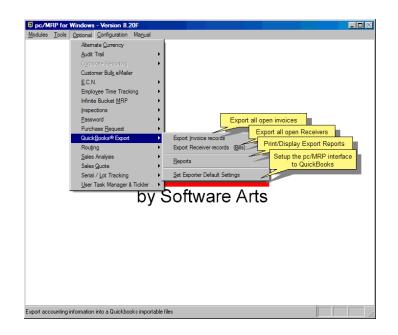
📮 Email Report Options 🛛 🕅						
Select the desired report						
C       All         C       Sent Only         C       Unsent Only         C       Bad Only	Sort By Customer Id Send To Display					
	<u>Ok</u> ancel					

# 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 picture of the letter to send an e-mail with that specific e-mail address.



# 16.16 QuickBooks API Export Module



## 16.16.1 Overview

pc/MRP's **QuickBooks API Export Module** version 7.70 and higher exports invoice and receiver (bill) data directly into all U.S. 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

As the menu above shows you, the following options are provided with the following options:

- 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 print or display the invoices and or 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).

Please note the following version improvements:

- pc/MRP version 8.14B and higher allow a Cost of Goods Sold Accounts to be selected for the default gross wage and or default overhead expense accounts.
- pc/MRP Versions 8.15A and higher are much faster than when clicking on the QuickBooks Tab. 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 and QbPartsDbf.dbf whenever invoices or receivers are exported.
- pc/MRP version 8.17A Chart of Account Fields were increased from 99 to 159 characters.
- pc/MRP version 8.20W added the option to assign liability accounts to parts.

- pc/MRP version 820AB will detect new installations of QB 2008
- pc/MRP version 8.23B allows users to use periodic accounting methods.
- pc/MRP version 8.23D added the option to import QB BOMs.
- pc/MRP version 8.25C added the option to remove the '**V**' from invoices by adding a "Remove\_V\_for\_InvoiceNumber.flg" file to the pcmrpw directory.
- pc/MRP version 8.30D now displays "Phone Number exceeds 21 characters instead of error 1429.
- pc/MRP version 8.30D no longer makes journal entries billable.
- pc/MRP 8.30F allows QuickBooks 'Other Charge' part type to be imported as Inside Labor.

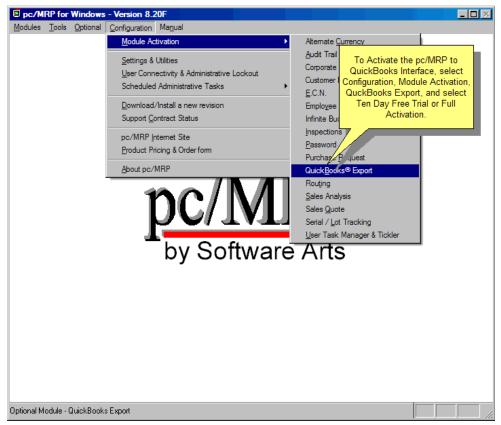
Before you can export invoice and receiver data to QuickBooks you must follow the setup instructions (steps 16.16.2.1 through 16.16.2.17) using the Set Exporter Default Settings option. Once the initial setup steps have been followed, the daily or weekly export from pc/MRP to QuickBooks only takes a few minutes.

## 16.16.2.1. Step 1 Backup your current copy of pc/MRP and QuickBooks

<u>If you are presently using QuickBooks for accounting</u>, 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 CD or other back-up medium after everyone has logged of pc/MRP.

#### 16.16.2.2 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 add an additional tab to the pc/MRP Inventory screen. This tab contains the following fields:

- QuickBooks Inventory Id (this field will contain the pc/MRP part number)
- QuickBooks Asset account (this field will be blank)
- QuickBooks Cost of Goods Sold (this field will be blank)
- QuickBooks Income Account fields (this field will be blank)

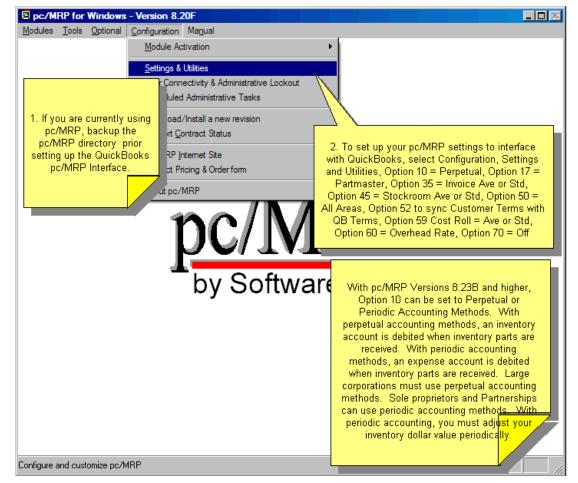
In addition, activating the QuickBooks Export module will add a QuickBooks tab to the pc/MRP Address Book screen. This tab contains the following fields:

- 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.

#### 16.16.2.3 Step 3. Set-up/Check pc/MRP Settings (see slideshow here: http://www.pcmrp.com/mrp101/gboverview.htm)



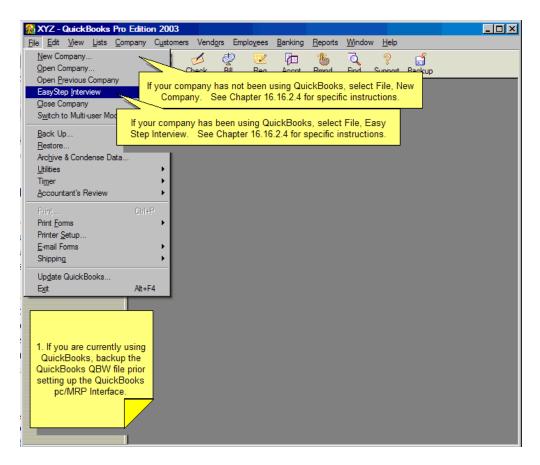


From within pc/MRP select Configuration and Settings & Utilities. pc/MRP must be changed to the following settings:

- With pc/MRP version 8.23B and higher, pc/MRP will allow either **Perpetual** or **Periodic** accounting method for **Option 10**.
  - With **Perpetual** accounting, which Software Arts, Inc. recommends, you debit Inventory when you receive inventory into stores.
  - With **Periodic** accounting, you debit an expense account when receiving inventory into stores month.
- Set **Option 17** to use the Partmaster as the source for cost of sales. pc/MRP will use the Partmaster as the source of the cost of sales regardless of this setting
- 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.

# 16.16.2.4 Step 4. Set-up/Check QuickBooks Settings



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

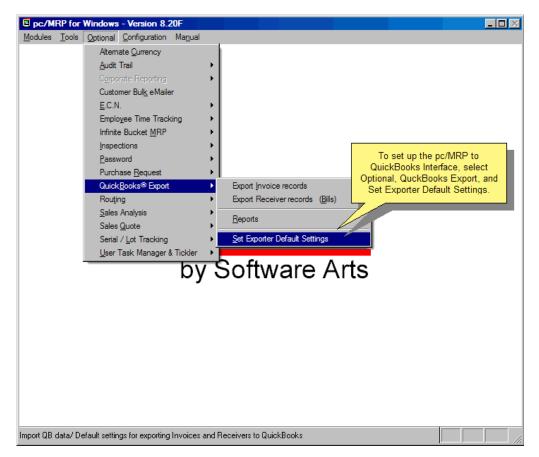
- 1. Start QuickBooks (a copy of QuickBooks must reside on this computer)
- 2. Select "File" and "New Company".
- 3. Click on the Next button 7 times.
- 4. Enter your company's name and address.
- 5. Enter your company's Tax ID # and start of fiscal year.
- 6. Pick the income tax form that your company uses (Corporation, Sole Proprietor, etc.).
- 7. Select a business type (usually pc/MRP customers select Manufacturing).
- 8. Enter your company name. Keep the QBW extension and click "Save."
- 9. Select "No" when prompted to have QuickBooks automatically create your chart of accounts.
- 10. Enter the number of QuickBooks users and continue to step 11.

If your company has been using QuickBooks, follow the steps 11-22 listed below:

- 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.

# 16.16.2.5 Step 5. Locate your default QuickBooks Company (see slideshow here: <a href="http://www.pcmrp.com/mrp101/gbexportoverview.htm">http://www.pcmrp.com/mrp101/gbexportoverview.htm</a>)



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 QuickBooks         File, Press the Locate But         Image: Export to QuickBooks® D	
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? © Yes C 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 QuickBooks®, Iocation of the appropriate QuickBooks®	
En Please review the location of the file and cha	ange it if necessa 2. Press the Button
En File:	
SI <u>OK</u> <u>Cancel</u>	4P
Use pc/MRP divisions for QuickBooks® Classes	Set-up Div/Clas Mote: Each computer must enter the location of the QBW file, as each PC may be mapped to the
Backup Options Help Me O	
	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.

# 16.16.2.6 Step 6. 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.

pc/MRP for Windows - Version 8.20F	
Modules Tools Optional Configuration Manual	
	To test your connection to the QBW file, press the Test Connection Button
Export to QuickBooks® Default Settings	
Location of the Company file used by QuickBooks®	
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	nnection
Do You Charge Sales Tax?   Yes  No  Import  Import	Books®
I collect single tax rate paid to a single tax agency     Map Address	ses
C I collect multiple taxrates OR pay multiple tax agencies Map Part Iter	ms
	od connection, the sage will pop up.
(e.g., "5.2 Connection Status	
Enter the : which you You have a good service connection to C:\Program Files\Intuit\Qui	
Set-up Ac	
Use pc/MRP divisions for QuickBooks® Classes	<u>.                                    </u>
Backup Options Help Me Ok Can	cel

If the company .qbw file is open in QuickBooks, your location file in pc/MRP references that same file, and this is the first time you are trying to establish a permanent connection between QuickBooks and this company .qbw file, you will get a prompt asking, "Do you wish to allow pc/MRP to access QuickBooks?" Select "Yes Always"

A pc/MRP message will inform you "You now have a good service connection to QuickBooks".

When actually transferring data you do not need to open QuickBooks. However, no other users should be using QuickBooks when transferring receivers or invoices.

Minimize your pc/MRP window

# 16.16.2.7 Step 7. Configure QuickBooks to allow pc/MRP to log in automatically

Restore your QuickBooks window

Select "Edit", "Preferences" and use the left scroll bar to select "Integrated Applications" Select the "Company Preferences Tab" as shown on the screen shot below:

Open Winc       Mixing       Allow Access       Application Name       Properties         Desktop       View       Properties       Desktop       Desktop         View       View       Properties       Desktop       Desktop         Properties       - pc/MRP       Ask a help question         Access Rights       Details       3.0         Charge       General       If Allow this application to access this company file         Prompt before allowing access       4.		ustomers Vendors Employees Bankin	16 Q ? 🗗	<b></b>
Wendor       My Preferences       Company Preferences         Bankin       Accounting       You can manage all applications that interact with this QuickBooks company file         Busine       Image: Checking       Don't allow any applications to access this company file         Open Winc       Image: Checking       Image: Checking         Desktop       My Preferences       Applications that have previously requested access to this company file         Applications that have previously requested access to this company file       Image: Checking         Desktop       Image: Checking       Properties - pc/MRP         Finance       Access Rights       Details       3. Company file         Ceneral       Image: Checking       Image: Checking       Image: Checking				
To learn more a Applications To learn more a QuickBook Cogin as: Admin Colore to learn more a Admin Colore to learn more a Admin	Custon Vendo Bankin Basine Busine Help & Copen Winc Open Winc Checking Chec	an manage all applications that interact wi in't allow any applications to access this co tify the user before running any application lications that have previously requested a low Access Application Name Properties - pc/MRP Access Rights Prompt before allowi Mow this application to Login as: Admin — Allow this application Login the application Cogin as: Admin	th this QuickBooks company file ompany file on whose certificate has expired access to this company file Properties Demouse Ask a help question Ask Details 3. Check A access this company file 19 access to login automatically	X OK Cancel Help Default ct Properties General Service X How Do 12 X Ilow Access

pc/MRP should be displayed as an application with the "Allow user access" column checked as shown above.

- 1. Click the "Properties" button and select the "Access Rights" tab.
- Check the "Allow this application to access this company file" and the "Allow this application to log in automatically" check boxes. *The 'Allow the application to access Social Security Numbers and ...*" checkbox should NOT be checked!
- 3. Click OK twice and exit QuickBooks.

In the above instructions, pc/MRP will log in as the QuickBooks Administrator. If you are running a multi-user copy of QuickBooks, you may want pc/MRP to log in under its own user name, as QuickBooks will not allow pc/MRP to log in, if the administrator is already logged into QuickBooks. To force pc/MRP to log in under its own user name follow the instructions listed below.

# If you are using QuickBooks 2003 – 2005:

Go into QuickBooks and select Company, Set up Users, Press Cancel (no need to change the administrator's name and password), and Add User. Enter **PcmrpProgram** as the User Name. Enter a Password and click Next. Select All areas of QuickBooks. Now that a new user has been added to QuickBooks, return to the screen shown above and click the Properties Button. Make sure the Allow this application to login automatically check box is checked and select PcmrpProgram from the Login Drop Down List Box.

# If you are using QuickBooks 2006 and higher:

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

16.16.2.8 Step 8.	Import QuickBooks Iten	n List into pc/MRP
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Modules Tools Qotional Configuration Magual       If QuickBooks and pc/MRP do not have part numbers and or BOMs and pC/MRP does not, Cick on Import Button to import parts and BOMs from QuickBooks.         Import Button to QuickBooks® Default Settinge       Location of the Company file used by QuickBooks@       Locate File         C:Program FilesUntuitQuickbooks ProViewapi.qbw       Test Connection         Do You Charge Sales Tax?       Yes       No         Import from QuickBooks®       Map Addresses         Map Eart terms       Map Addresses         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.       If both pc/MRP and QuicBooks have your partnumbers, select Map Part Items to match QuickBooks parts with pc/MRP parts.         Set-up Account Names       Set-up Initial AR       Set-up Initial AR         If Use pc/MRP divisions for QuickBooks® Classes       Set-up Div/Class         Backup Options       Help Me       Qk         With inventory items, pc/MRP Versions and Cost into pc/MRP's Average Cost. If OBs Average Cost.       pc/MRP's Average Cost.         0, pc/MRP divisions for QuickBooks® Classes       Set-up Div/Class       Yersions 8.40AA, 8.43R and higher inport OBs Purchase Cost into pc/MRP's Average Cost. If OBs Average Cost. If O	pc/MRP for Windows - Version 8.20F	X
Location of the Company file used by QuickBooks®       Locate File         C:\Program Files\IntuitiQuickbooks Pro\Newapi.qbw       Test Connection         Do You Charge Sales Tax?       Yes       No         Import from QuickBooks®       Map Addresses         Map Part items       Map Part items         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.       If both pc/MRP and QuicBooks have your partnumbers, select Map_Part Items to match QuickBook parts with pc/MRP parts.         Set-up Sales Taxes       Set-up Sales Taxes       With inventory items, pc/MRP Versions 8.40Z, 8.43Q and lower, pc/MRP versions 9.40Z, 8.43Q and lower, pc/MRP versions 8.40Z, 8.43Q and lower, pc/MRP versions 8.40Z, 8.43Q and lower, pc/MRP versions 9.40AA, 8.43R and higher import QBs Purchase Cost into pc/MRP's Standard and Last PO Cost and QBs Average Cost. Into pc/MRP's Standard and Last PO Cost and QBs Average Cost. Into pc/MRP's Average Cost. Into pc/MRP's Average Cost. Into pc/MRP's Standard and Last PO Cost and QBs Average Cost. Into pc/MRP's Average	If QuickBooks and pc/MRP do not ha part numbers, skip to next slide.	ave numbers and or BOMs and pc/MRP does not, click on Import Button to import parts
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Do You Charge Sales Tax?       Yes       No         Import from QuickBooks®       Import from QuickBooks®         I collect single tax rate paid to a single tax agency       Map Addresses         I collect multiple taxrates OR pay multiple tax agencies       Map Part tems         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.       If both pc/MRP and QuicBooks have your partnumbers, select Map_Part tems to match QuickBook parts with pc/MRP parts.         Set-up Account Names       Set-up Initial AR       Set-up Initial AR         Set-up Account Names       Set-up Initial AR       Set-up Div/Clat         With inventory items, pc/MRP Versions       8.40Z, 8.43Q and lower, pc/MRP         Import QBs Purchase Cost into pc/MRP's Average Cost		
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Set-up Account Names       Set-up Initial AR       Set-up Initial AR       Set-up Initial AR       Set-up Initial AR       8.40Z, 8.43Q and lower, pc/MRP         Image: Set-up Divide QBs PurchaseCost into pc/MRP's Average Cost.       pc/MRP's Average Cost.       pc/MRP's Average Cost.       pc/MRP         Versions 8.40AA, 8.43R and higher import QBs Purchase Cost into pc/MRP's Standard and Last PO Cost and QBs Average Cost.       mport QBs Purchase Cost into pc/MRP's Average Cost.       mport QBs Purchase Cost into pc/MRP's Average Cost.         Backup Options       Help Me       Qk       Qk <td< td=""><td>Set-up Sales Taxes</td><td></td></td<>	Set-up Sales Taxes	
✓ Use pc/MRP divisions for QuickBooks® Classes       Set-up Div/Classes       pc/MRP's Average Cost. pc/MRP         Backup Options       Help Me       Qk       gc/MRP's Standard and Last PO Cost and QBs Average Cost into pc/MRP's Average Cost intopc/MRP's Average Cost into pc/MRP's Average Co	Set-up Account Names Set-up Initial AR Set-up Initial AR	8.40Z, 8.43Q and lower, pc/MRP
	<u>Backup Options</u> <u>Help Me</u> <u>Ok</u> <u>A</u>	pc/MRP's Average Cost. pc/MRP Versions 8.40AA, 8.43R and higher import QBs Purchase Cost into c/MRPs Standard and Last PO Cost and QBs Average Cost into pc/MRP's werage Cost. If QBs Average Cost = pc/MRP imports QBs Purcha <mark>se Cost</mark>

<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.

<u>If Quick Books has your parts list and pc/MRP does not</u>, 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.
- 3. 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 as shown above.

- Each part's pc/MRP part number field will be populated by its QuickBooks name field.
- Each part's pc/MRPs 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 Modules Tools Optional		
pc/MRP Part Number pc/MRP part tem to Qu t# [b0000001 ] JuickBooks® Id Number Inv 000000001 ] Incor	Export to QuickBooks® Default Settings     Location of the Company file used by QuickBooks®     C:Program FilesUntuitQuickbooks Pro\Newapi.qbw     Do You Charge Sales Tax?	De Part - Inventory
# 000000002     If       Quic     If       000     If       blank, pc/MRP w     debit       debit     and credit       default accounts in     Configuration, Se       and Utilities, Opt     Pat	Cost of C ill use the sted in titigs	Type Part - Inventory 4. Scroll to the next part Soods Solutions pense Account Save Cancel 5. Press Save

Whenever an invoice or receiver is exported to QuickBooks, pc/MRP will see if QuickBooks has the part a 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 below 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.

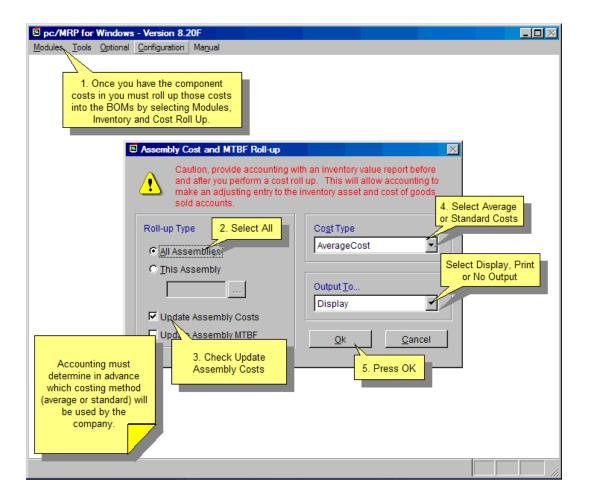
**In the future**, enter new part numbers into pc/MRP only. pc/MRP will export the part numbers to QuickBooks as necessary as "non inventory parts."

# Additional Notes on pc/MRP's Inventory ID (QBPartId) Field:

pc/MRP automatically populates the QBPartID Field with pc/MRP's part number when:

- Updating pc/MRP versions 7.60 and lower to 7.70 and higher.
- 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).

#### 16.16.2.9 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).

# 16.16.2.10 Step 10. Import QuickBooks Address List into pc/MRP

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 into pc/MRP
Location of the Company file used by QuickBooks®	
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	on
Do You Charge Sales Tax?  Yes No Import Import from QuickBooks	8
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	-K
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 <u>D</u> iv/Classes Backup Options <u>Help Me Qk C</u> ancel	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.

<u>If QuickBooks has your addresses and pc/MRP does not</u>, 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.

E pc/MRP for Windows - Version 8.04D (User: DOUG)	
Modules Tools Optional Configuration Manual	
Export to QuickBooks® Default Settings	×
Location of t C:Program Do You Charg	Iest Connection
pc/MRP Customer baid to a single tax agency	uport 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 QuickBooks
Addr Id Company Name	Quick Books Ids
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 Id Company Name	Quick Books Ids
BBC001 BBC MANUFACTURING COMPANY	Customer
RICHVIEW CA 88888	Vendor
Available vendors from Quickbooks	
CA STATE BOA - Vend - CAL001	poks Ids
CA STATE BOARD OF EQUALIZATION FROM QB	
3. Select the Veno 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.

# 16.16.2.11 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 <u>If you do not collect sales tax</u>, follow the instructions below: Restore your pc/MRP window

pc/MRP for Windows - Version 8.20F Modules Tools Optional Configuration Manual	
Modules Tools Obriousi Foundariation Matrica	
Export to QuickBooks® Default Settings	$\mathbf{X}$
Location of the Company file used by QuickBooks® Locate File	
C:\Program Files\Intuit\Quickbooks Pro\Newapi.qbw	n
Do You Charge Sales Tax? O Yes SNO Import	R
Map Addresses	-
If you do not collect sales tax, click the No Radio Button. Map Part Items	
Set-up Account <u>N</u> ames Set-up Initial A <u>R</u> <u>S</u> et-up Initial AP	
✓ Use pc/MRP divisions for QuickBooks® Classes Set-up Div/Classes	
Backup Options Help Me Ok Cancel	1
	4

Click on the No radio button.

You are done with sales tax; skip to step 14.

16.16.2.12 Step 12. Setup Sales Taxes (sales taxes are collected for a single tax entity)

Restore your pc/MRP window

pc/MRP for W	Vindows - Version 8.20F
<u>M</u> odules <u>T</u> ools <u>C</u>	Optional <u>C</u> onfiguration Ma <u>n</u> ual
	Export to QuickBooks® Default Se     Location of the Company file used b     C:\Program Files\Intuit\Quickbooks File
	C \Program Files\Intuit\Quickbooks P st Connection           Do You Charge Sales Tax?         Yes         No         Import from Quick         3. Enter the sales tax description to be printed on invoices           I collect multiple taxrates OR pay multiple tax agencies         Map Part Item?         Map Part Item?
2. Click on Single Tax Rate Paid to a Single Tax Agency	nter a sales tax description to be printed on MRP Sales Tax Description
	Enter the address id for the sales tax agency to which you pay sales tax:
	Set-up Account Names Set-up Initial AR Sr ,ial AP
-	Use pc/MRP divisions 5. Locate the sales tax vendor in pc/MRP's Address Book. If QuickBooks does not have this address pc/MRP will send it over to Use pc/MRP divisions
	Backup Options         QuickBooks during the first export. If QuickBooks already has this address, make sure the pc/IMRP Address is mapped to the correct QuickBooks Address.         icel

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:

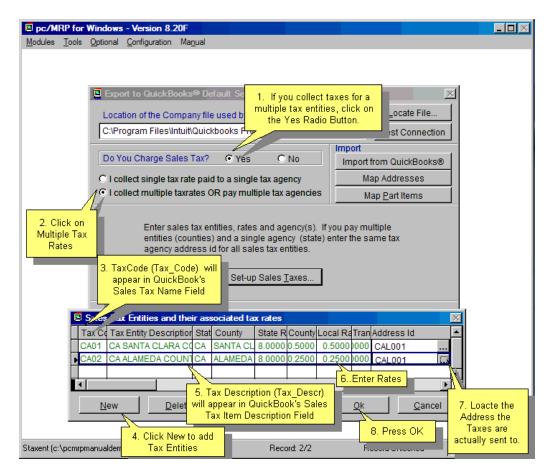
- sales tax description that will appear on invoices
- sales tax rate
- address id for your sales tax vendor (state agency that collects sales tax).

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 12.

# 16.16.2.13 Step 13. Setup Sales Taxes (sales taxes are collected for multiple tax entities)

<u>If you collect multiple tax rates or pay multiple sales tax agencies</u>, 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.

# 16.16.2.14 Step 14. Enter 11 base chart of accounts into QuickBooks

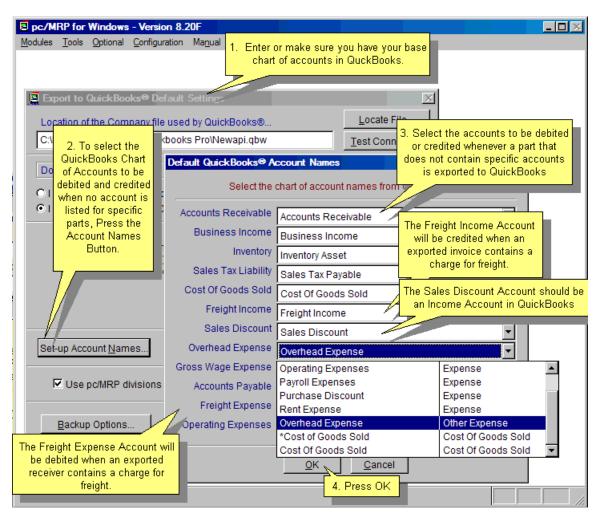
If you have already established a chart of accounts in QuickBooks and your copy of QuickBooks has equivalent accounts for the 11 accounts shown below, move on to the next step.

If your copy of QuickBooks does not contain a chart of accounts or is missing one or more 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 (step 13), 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.



16.16.2.15 Step 15. Enter the QuickBooks default chart of accounts into pc/MRP

Select "Options", "QuickBooks", "Set QuickBooks Exporter Default Settings" and press the "Set-up Default Account Numbers" button to display the screen shown below. pc/MRP will display a drop down list of all legal account 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.

# 16.16.2.16 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 8.04D Modules Tools Optional Configuration M      Inventory — (Edit Mode)     Part # CON-00001     Description CON, PCB MOD JA	anual If you war account nun numbers, ed Click on th	nt to specify unique mbers for specific part it the part number and ne QuickBooks Tab Displayed Currency
Quantites \ Costs Vendors QuickBooks® Id Numbers	QuickBooks the next time the ite	hin QuickBooks. It will be added to
Cost of Goods Sold Account		
If there are many parts that require unique account numbers, it may be faster to use the Part Mapper Button on the	Inventory Asset o Inventory Asset In Freight Expense Gross Wage Expense Operating Expenses Payroll Expenses Purchase Discount	Other Current Asset etc. Insert Account Name from QuickBooks. Expense Expense Expense ancel
Default Settings Screen.	Rent Expense	Expense NUM

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 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.

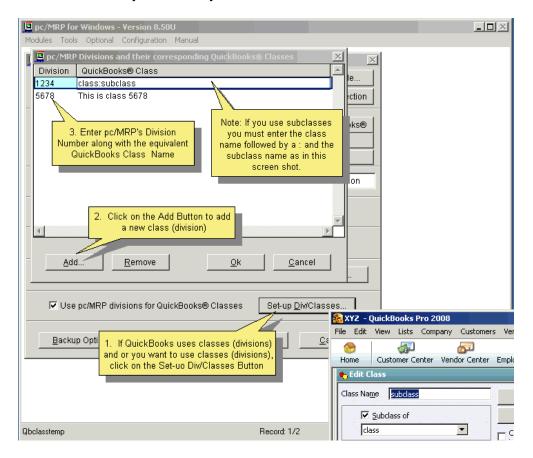
If the part is an outside labor part and it has been added to a BOM, select an inventory asset account for the Asset/Expense Account Field. If the outside labor part has not been added to a BOM, select an expense or COGs account for the Asset/Expense Account Field.

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.

With pc/MRP Versions 8.15A and higher, clicking on the QuickBooks Tab is much faster than prior 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.

# 16.16.2.17 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

#### 16.16.2.18 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.

pc/MRP for Windows - Version 8.20F							
Modules Tools Optional Configuration Manual							
E Invoice Closer	3. Check the Complete Checkbox for all invoices that						
Invoice # 000001 Date 12/20/2006 Subtotal: 2175.0000	have been paid.						
Account Id ABC001 Paid: 0.0000							
Company Credit Memo: 0.0000	Complete						
ARROW ELECTRONICS Total: 2175.0000							
Invoice # 000002 Date 01/09/2007 Subtotal: 40000.0000							
Account Id ABC001 Paid: 0.0000							
Company Credit Memo: 0.0000							
ARROW ELECTRONICS Total: 40000.	Complete						
40000. 4. The total AR will be updated as you check off the invoices.							
Close up to a Date Open Invoice and Open Credit Memo Total							
Complete All AR w Credit Memos: 40000.0000	<u>k</u>						
Open Credit Memos: 0.0000	Cancel						
1. If there are no invoices in pc/MRP or you are starting out for the first time in both pc/MRP and QuickBooks, skip to the next slide. Here the paid or wish to check the invoices and RA to paid or wish to check the invoices and RA to	pc/MRP to update the complete field on all invoices. All MRP here be exported over to hat QuickBooks when you						
will be sent over to QuickBooks on the firs export, select Set-up Initial AR							
	CAPS						

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.

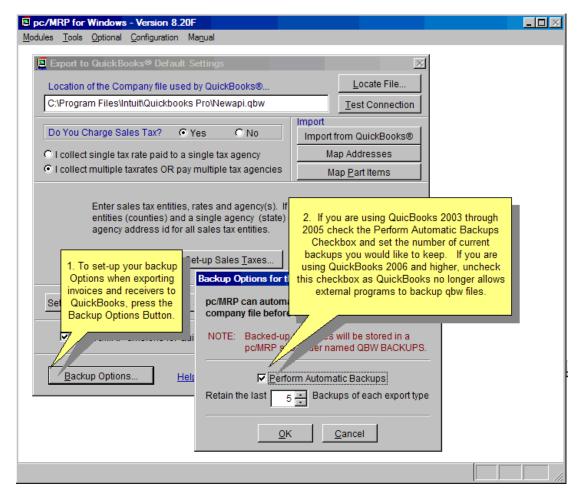
Scroll the invoices and check the **complete** check box for all paid invoices and credit memos until the AR with Credit Memo Total is correct. If you check an invoice as complete, the entire invoice will be marked as complete by inserting a capital Y into the complete field of every line item for that 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.

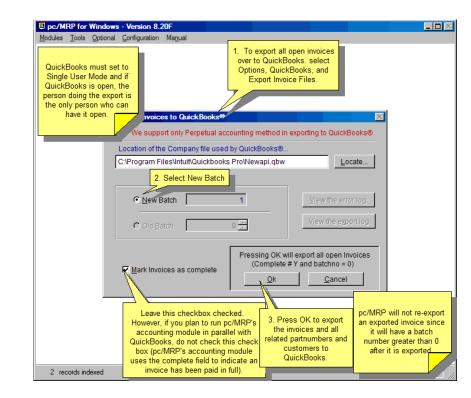
Pressing the Cancel button will leave the invoices unchanged. The invoice complete and posted fields will remain as they were prior to entering this screen.

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.

#### 16.16.2.19 Step 19. Set Backup Options

Click on the Backup Options button. If you are using QuickBooks 2003 – 2005, check the 'Perform Automatic Backup' option checkbox and set the number of QBW file backups to keep. 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.





# 16.16.2.20 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 Options, QuickBooks Export, and Export Invoice Files.

Press OK to export all open pc/MRP invoices. pc/MRP will only export invoices where the batch number is equal to 0 (zero) and the invoice is not complete (complete # 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.

# 16.16.2.21 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.

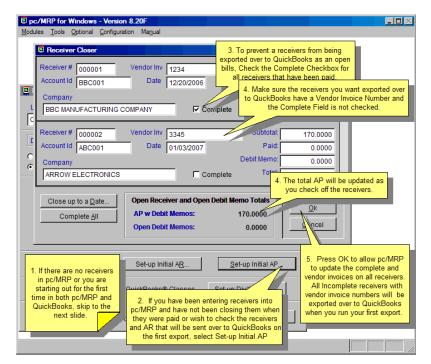
If you are starting out for the first time with both pc/MRP and QuickBooks, do not run this step and continue to step 23.

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.



This screen allows you to set-up the initial export of open (unpaid) receivers with vendor invoice numbers. 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")

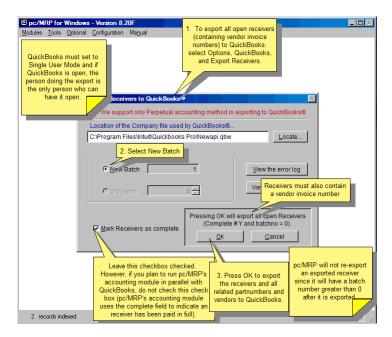
Scroll the receivers and check the **complete** check box for all paid receivers and debit memos and add the vendor invoice number to all receivers that you wish to export, until the AP with Debit Memo Total is correct.

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.

# 16.16.2.22 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 Options, 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).

Press OK, to export all open pc/MRP receivers. Only receivers with a batch number of 0 (zero), are not complete (complete # Y), and have a vendor invoice number in at least one line items will be exported. Debit memos and partial payments will not be exported...

Once the export has been completed, pc/MRP will insert the batch number into the receivers that were exported and any open debit memos to prevent them from being exported again. To re-export a batch you would select Old Batch instead of New Batch.

If any open receivers or debit memos were detected, pc/MRP will display a warning message asking you to open up the export log and scroll to the bottom of the file for a list of partial payments and debit memos. Print this list out by selecting File and Print, as you will need this list on the next step. Enter the debit memos and partial payments by hand into QuickBooks. The total amount displayed on the Export Log Report is a sum of the following calculation:

```
Round(Cost*QtyRec*(1-(Discount/100))*(1+(TaxR/100.00))+Freight, 2)
```

pc/MRP receiver numbers will have a suffix of R and will be listed in QuickBooks Memo column. Vendor invoice numbers appear under QuickBooks Number column.

In the future:

- Use pc/MRP to enter all receivers, add vendor invoice number to the first line item of the receiver, and export them to QuickBooks once a day.
- Use QuickBooks to enter all vendor payments and debit memos.

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		De	elete		Ctrl+D								
		<u>M</u>	ake Inac	tive									
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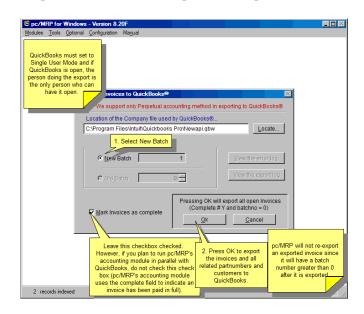
#### 16.16.2.23 Step 23. Enter the Remaining Chart of Accounts and Balances into QuickBooks

If you have been running QuickBooks prior to this implementation, you can skip this step.

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 QuickBooks on a Daily Basis

Once you have completed the initial implementation steps (16.16.2.1 - 16.16.2.23), 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 section 16.16.2.1. 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 equal to 0 (zero) and the invoice is not complete (complete # 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', I 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 QuickBooks will be credited\*

If the discount does not equal \$0.00

The default Sales Discount account will be credited for the amount of the tax If the freight does not equal \$0.00

The default Freight Income account will be credited The default Sales Tax Liability account will be credited

#### **Inventory Part and Assembly Items**

A Part and Assembly Item can be purchased and sold The Asset/Expense account field should be filled with a QuickBooks 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

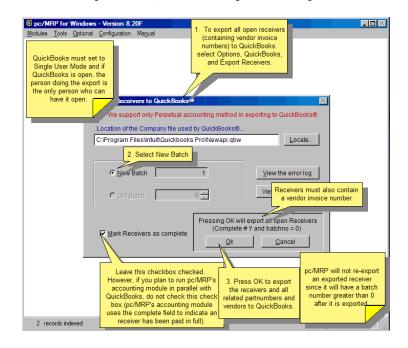
If the item's overhead amount is greater than \$0.00

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 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 QuickBooks on a Daily Basis

Once you have completed the initial implementation steps (16.16.2.1 - 16.16.2.23), 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 section 16.16.2.1. 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 # 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 QB 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 QuickBooks 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 OuickBooks 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 OuickBooks 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 QuickBooks 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 QuickBooks, you would change the expense account in QuickBooks instead of the expense account in pc/MRP.

\*\* With pc/MRP version 7.80L and higher, 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 a 'NA' as a part number in the Purchase Order and edit the description to describe what you are ordering. QuickBooks will create a '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 Export to QuickBooks 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		QuickBooks					
Inventory Part,Assemby		Non Inventory Item					
COGS	COGS*						
Asset/Expense**	Asser, Other Asser, Expense	→QB Expense					
Income	Asset for inventory, Exp for supplies Income*	→QB Income					
InsideLabor (can not be purchased or receiverd)		Service Item					
		QB Expense	Default COGS Accnt				
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						

\* 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.)

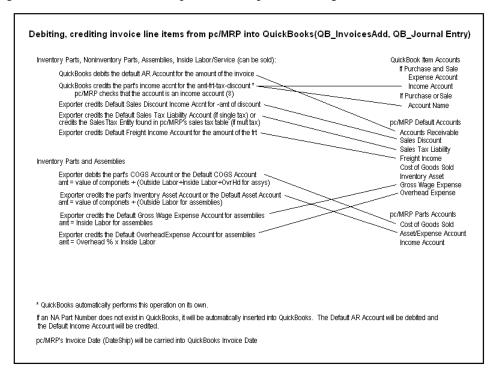
If a NA part number exists in an invoice or receiver that is being exported to QuickBooks, and QuickBooks does not contain a NA part number, pc/MRP will insert the NA partnumber into QuickBooks as a non-inventory item with the default income and expense accounts.

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.

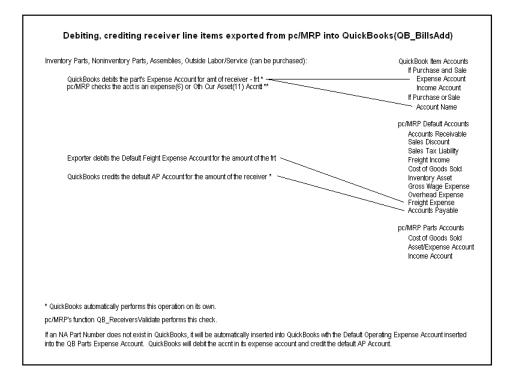
# 16.16.5.2 Debiting and Crediting Invoice Logic

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. . The error messages are displayed in the same text as this sentence.

#### Function QB\_BuildPcmrpCursors()

If exporting invoices

Creates an ExportCursor with all invoices whose Batchno=0, not deleted, not complete, not a CM

#### Function QB\_InvoicesValidate()

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 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 OB

Case the part number does not exist in QuickBooks

**Qb\_CreateNewPartItem**() Adds the part number to QuickBooks, see Qb\_CreateNewPartItem section.

#### **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 # 0, credits the default sales tax liability acct for the amt of the tax

If the discount #0, credits the default sales discount account for the amount of the discount

If the freight # 0, credits the default freight income account for the amount of the freight

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 the 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 OB

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 # 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.) QuickBooks 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 QuickBooks 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 OuickBooks Expense Account = the part's pc/MRP's Asset/Exp Account If the parts pc/MRP OB 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 OuickBooks. 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() (New code is highlighted in yellow)

PartScr.Page6.Activate()

IF !USED("QbAccounts")

IF(!FILE2("QbAccountsDbf.dbf") OR !FILE2("QbPartsDbf.dbf")) QbAccountsPopulate() QbPartsPopulate()

**ELSE** 

Create QbParts cursor and QbAccounts cursor from dbfs Creates AcctType Index for QbAccounts cursor

ENDIF

ENDIF

QbAccountsCombobox.Vcx LoadList() Select QbAccount Set Order to AcctType PartScr.Release() Closes QbAccounts and QbParts

# **QbAccountsPopulate():**

If QbAccounts is not used Create a new QbAccounts Cursor If this function is called by Qb\_Export() Create a new QbAccountDbf.dbf file Closes QbAcccountsDbf

# **QbPartsPopulate()**

If QbParts is not used Create a new QbParts Cursor If this function is called by Qb\_Export() Create a new QbPartsDbf.dbf file Closes QbPartsDbf

#### 16.16.6 Exporting Error Messages

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 (available in version 7.90e and higher). The following is a list of functions that can fill a response or request 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 The procedure entry point job\_func, could not be located in the dynamic link library, MSVCR70.DLL

pc/MRP versions 7.83 to 7.90e were shipped with the VFP6 version (296Kb, 3/12/2001). To fix, download and install a new revision. This will install the VFP7 version (336Kb, 1/15/2002).

#### 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, Set-up 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 inactive. 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.

# 16.16.6.1000 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.quickbooks.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 QBFC2 via the Windows Control Panel, Add or Remove Programs.
  - 2. Run QBFCInstaller.exe from the pcmrpw directory. Or, restart pc/MRP, select Optional, QuickBooks, Default Settings and allow pc/MRP to re-install QBFC2
- If it is none of the reasons shown below be sure to note the name of the .fxp file, the line number and message prior to calling Software Arts
- Credit limit exceeds Quickbooks credit limit. Update to latest revision for your version of pc/MRP.
- 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 a '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 pcmrp connection from QB and set up the connection again as per 16.16.2.6 and 16.16.2.7.
- 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 involves QB\_CustomersPopulate, and contains the words "unexpected agg tag",
  - 1) The .QBW file's Sale Tax Code no longer functions due to the 2009-R7 QB patch.You can no longer add a new customer. The fix is to:
    - a. Start QB, select Vendors, Sales Tax, Manage Sales Tax.
    - b. Add a new taxable Sales Tax Code
    - c. Add a new non-taxable Sales Tax code.
    - d. Delete both of the new codes you just entered.
    - e. The problem will have now resolved itself.
  - 2) There are foreign characters in the QB customer address. Export the QB customers to Excel or to an IIF file (cust.iif). Call Software Arts.

The allowable ASCII characters for 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 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 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 and / or achieving 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 has 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.
- pc/MRP's Digital Signature is invalid. When testing a QB connection, you will get this error message. Update ti the latest revision or version of pc/MRP or replace the pc/MRP.exe file from a back-up as it has become corrupted.
- 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 versions 8.50R and higher, 853E and higher will display the problem invoice or receiver number and the 'txt' file will automatically contain the bad characters.

# 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

- pc/MRP version 7.90L contained this error. Update to version 7.90M or higher
- QuickBooks has a blank partnumber in a one of it's BOM structures. Update to pc/MRP version 8.30E or higher.
- 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. You must add the vender to the 'Bill' in QuickBooks.
- •

# 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 printout 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.

#### 16.16.7 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.

# 16.16.8 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 may have the same invoice number).

#### 16.16.9 Address exceeds 5-lines of 41-characters per line.

If necessary (first 4 lines of address are full), QuickBooks will attempt to put the city, state, zip, and county into the 5<sup>th</sup> line. These 4 fields with the spaces and commas that QuickBooks adds cannot exceed 41-characters.

#### 16.16.10 Bills 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.

#### 16.16.11 The partnumber is an Inside Labor part and cannot be exported as part of a receiver.

pc/MRP versions 8.00AC and lower will default a labor part to Inside Labor when updating from pc/MRP versions 7.60 and lower. pc/MRP version 8.00AD and higher will attempt to classify labor as Inside or Outside by examining the receiver when updating from pc/MRP versions 7.60 an lower.

#### 16.16.12 Error QB foundation class library not found.

If QBFC2 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 qbfc2installer.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).

#### 16.16.13 Error exporting receiver, duplicate invoice number in QB.

pc/MRP export to QuickBooks allows one Vendor Invoice nbr for one Receiver nbr. 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.

# 16.16.14 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.

# 16.16.15 Error accessing QuickBooks. The QuickBooks application could not be started and may be damaged.

- If you have a Windows Vista computer, the User Account Control must be set ON. Click on the Start Button, Control Panel, User Accounts, and Turn User Account control On or Off to change this setting.
- 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.

# 16.16.16 The pc/MRP application has not accessed this QuickBooks company data file before.

Follow the instructions in the pc/MRP 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.

# 16.16.17 QBFC2 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 QBFC2, only check the 'Keys' checkbox, click the NEXT button. Select the QBFC2.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' QBFC2.QBSessionManager' to 'xQBFC2.QBSessionManager'. Please note that there may be a 'QBFC2.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 QBFC2 program.

# 16.16.18 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.

# 16.16.19 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.

# 16.16.20 Error extracting information from the external accounting application.

- Validate the QBW file. In QuickBooks, File, Utilities, Validate.
- Remove the QBFC2 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.

# 16.16.21 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. If you are on pc/MRP versions 8.40AA or AB, call software Arts and update to pc/MRP version 8.40AC or higher. Versions 8.43 to 8.47, update to pc/MRP version 8.50 or higher.

#### 16.16.22 Invalid characters were detected in the pc/MRP data as described below.

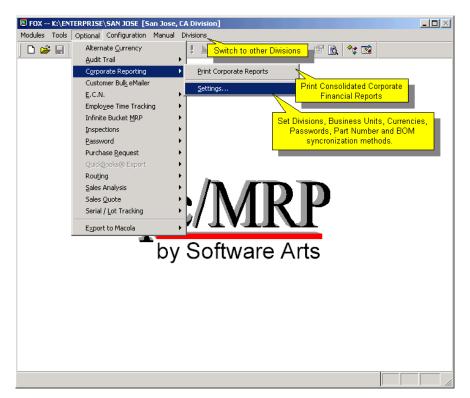
- This error occurs when pc/MRP is validating new parts (QBPARTS), Addresses (QBADDRESSES), and divisions (QBCLASSES) to be added to QuickBooks from pc/MRP. You will find that the field in the error message contains an illegal character, which could include a 'carriage return'. Simply edit the part's 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)," ")

# 16.16.23 Unable to switch to single-user mode in QiockBooks.

Files on the server may be locked and/or not able to release a link between applications. QuickBooks support suggests re-booting the server.

# **16.17** Corporate Enterprise Reporting Module



# 16.17.1 Corporate Enterprise Reporting Module Overview

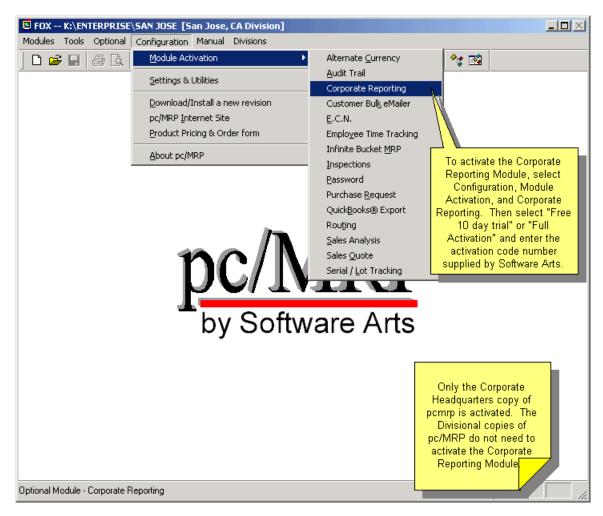
The Corporate Enterprise Module allows companies to:

- 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.

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)

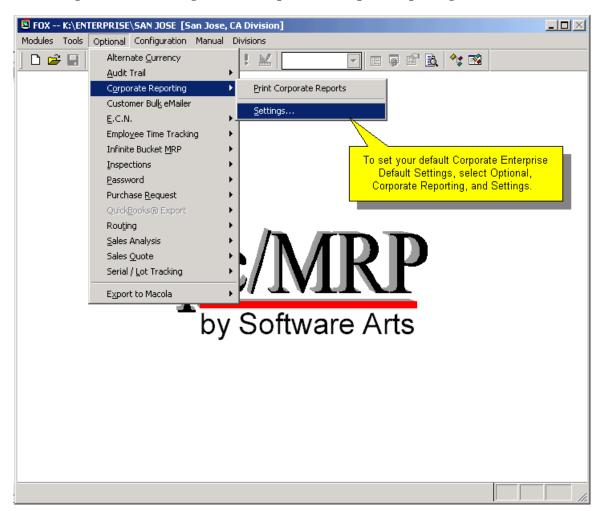
An online slideshow is located here: http://www.pcmrp.com/mrp101/corporateoverview.htm



# **16.17.2** Activating the Corporate Enterprise Reporting Module

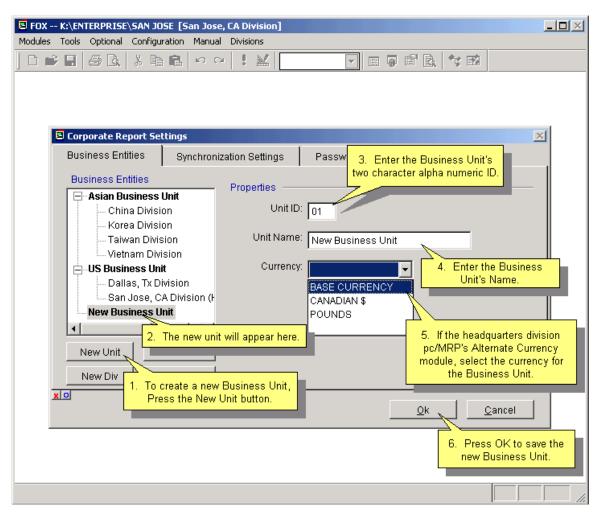
Select Configuration, Module Activation, and then Corporate Reporting Module from the menu. To activate this module:

Call Software Arts (408-226-7321) to obtain your activation code number. Press the "Activate" button and enter your activation code number.



16.17.3 Setting the default settings for the Corporate Enterprise Reporting Module

# **16.17.4 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.

# **16.17.5 Creating Divisions**

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Corporate Report Set Business	ect the Unit's you dd a new       P       3. Enter the new Division's ID.       4. If this is the HQ division, check the Headquarters checkbox.         Properties       01       Headquarters         Division ID:       01       Headquarters         Division Name:       New Division       5. Enter the new Division's Name.         Division Name:       New Division       6. Enter the Division's Currency.         Currency:       CANADIAN \$       Folder Location         K\Enterprise\NewYork          7. Use the button to select the folder that contains this division's files         Div button.       0k Lancel
	8. Press OK to save the new Business Unit.

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 2-character 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.

Top 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.

Modules       Tools       Optional       Configuration       Manual       Divisions         Press       He       He
tab to select the method you wish to use to syncronize your part numbers and BOMs between divisions.         Improvement         Business Entities         Synchronization Settings         Password Settings         Inventory & BOM Synchronization         Each division defines its own Inventory & BOM lists independently         Inventory items and Bills of Materials can be created by the Headquarters division only         Each division can create a part and it will be propagated to other divisions. Only the Headquarters division can edit part numbers & part descriptions. Bills of Materials can be defined or edited by the Headquarters division only.
Business Entities       Synchronization Settings       Password Settings         Inventory & BOM Synchronization <ul> <li>Each division defines its own Inventory &amp; BOM lists independently</li> <li>Inventory items and Bills of Materials can be created by the Headquarters division only</li> <li>Each division can create a part and it will be propagated to other divisions. Only the Headquarters division can edit part numbers &amp; part descriptions. Bills of Materials can be defined or edited by the Headquarters division only.</li> </ul>
Inventory & BOM Synchronization C Each division defines its own Inventory & BOM lists independently Inventory items and Bills of Materials can be created by the Headquarters division only Each division can create a part and it will be propagated to other divisions. Only the Headquarters division can edit part numbers & part descriptions. Bills of Materials can be defined or edited by the Headquarters division only.
Inventory & BOM Synchronization C Each division defines its own Inventory & BOM lists independently Inventory items and Bills of Materials can be created by the Headquarters division only Each division can create a part and it will be propagated to other divisions. Only the Headquarters division can edit part numbers & part descriptions. Bills of Materials can be defined or edited by the Headquarters division only.
To select additional fields to be propogated to other divisions when a part is created, press the Inventory Sync Fields button. The Part Number, Description and Part_Assy fields are automatically propogated when a part is created.

# 16.17.6 Setting part and BOM synchronization settings

Select the "Synchronization Settings" tab and select the method you wish to use to synchronize your part numbers and BOMs between divisions.

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, Description, and Part Assembly 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, description, and part type fields. Other divisions are not allowed to edit BOMs with this option.

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.

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# 16.17.7 Propagating Additional Partmaster Fields

Select the Inventory Sync Fields button to check the fields you want propagated. The Part Number, Description, and Part/Assembly 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, Description, and Part Assembly fields are propagated.

Check the additional fields you want propagated. The Part Number, Description, and Part/Assembly fields are automatically propagated to the other divisions 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 select a cost field to be propagated, and the HQ division has pc/MRP's Alternate Currency module, the costs will be propagated in each division's currency.

# 16.17.8 Setting up Passwords

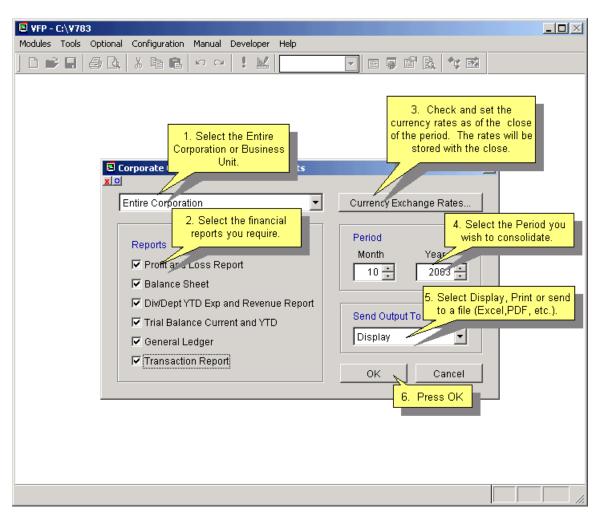
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		BILLY		*****		Korea Division Taiwan Division	Asian Busines Asian Busines	s Unit		
		BILLY		*****		Vietnam Division Dallas, Tx Division	Asian Busines US Business I	s Unit		
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	xo	- To pass	word	r a new click the utton.		To allow users to s between divisions, this checkbox	witch c check	orporate le	asswords a avel only ch 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.



# 16.17.9 Print/Display 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.

# 16.17.10 Corporate Profit and Loss Report

· · · · · · · · · · · · · · · · · · ·	* 🔽 👫 🖨 🦳					
					Page	: 1
DHESIVE TECHNOLOGIES IN						
1/08/2003						
ID EXPENSE AND REVENUE REPORT 10/0	13 FOR Entire Corporat	ion				
	<b>10.0</b> 454 500					
ICCT INSCREMENDOA	MDNIK	YTT		ALD BADCEL	79.47 <b>0</b> 8.	אונע אי עבור
III VISUN ASLE TOTALS:	5000.00	12590.00	4.000.00	8000.00	125.00	155.25
III VII SON ASHD TOTALS :	10000.00	25000.00	00D0.00	16000.0D	125.00	104.15
HIVESON ASTY TOTALS :	3333.0O	6992.50	2666.40	5992.6D	125.00	20.40
III VII SOM INSUM TOTALS:	18080.80	23 000 . 0 0	1000.00	16000.00	125.00	55.14
HIVESUN WELL TOTALS:	10040.00	20040.00	¥000.00	16040.00	120.00	40.75
HIVESON USED TOTALS:	15000.00	15000.00	00D0.00	6000.0D	107.50	21.69
HEVENUE TOTALS	53999.OD	110832.50	39666.40	69 392 . GD	137.93	159.65
ST OF COORS SOLD						
HIVESUN ASCH TUTALS:	0.00	-3950.00	0.00	0.00	0.00	0.00
HIVESON ASHD TOTALS:	0.00	-7900.00	0.00	D.0D	0.00	D.0D
HIVESON ASTW TOTALS:	0.00	-2639.07	0.00	D.0D	0.00	D.0D
HIVE SOM DESIM TOTALS:	0.00	-7960.00		0.00	0.00	0.00
III VI SUR USIL TUTALS :	a.•a	-1990.00	0.00	0.00	0.00	0.00
III VISON USED TOTALS:	-7900.00	-790D.OD	0.00	D.QD	0.00	D.QD
COST OF GOODS SOLD TOTALS	-790D.OD	-30103.07	0.D0	D.CD	0.00	D.0D
ST OF LABOR						
HIVESUN ASCH TOTALS :	0.00	- 250 . 00	2500.00	000.00	0.00	-5.00
HIVISUN ASAD TOTALS:	0.00	- 690 . 00	5000.00	10040.00	0.00	-8.38
HIVESON ASTW TOTALS:	a.•a	- 166 . 65	1666.50	3999.OD	0.00	-D.9D
HIVESON ASUN TOTALS:	a.•a	- 50D. OD	50D0.00	10000.0D	0.00	-1.76
III VI SON WEIL TOTALS:	0.00	- 500 . 00	5808.88	10 000 . 0 0	0.00	-1.90
HILLSON USED TOTALS:	-3#0.#0	- 540 . 90	5000.00	00.00	-10.00	-1.15
DUST IN LABOR TITLLS	- 690 . 9 0	-2416.60	24166.50	43338.00	-2.06	-5.07
HINDING REPRESES						_
IIIIISON ASCH TOTALS:	-525.00	-1464.00	0.00	0.00	0.00	0.00
HIVISON ASAD TOTALS:	-1050.00	-2898.00		0.00	0.00	0.00
III VISON ASTA TOTALS:	-349.97	-995.91	0.00	D.QD	0.00	D. CD
HIVESON ASUN TOTALS:	-1050.00	-2808.0D	0.00	D.CD	0.00	D. QD
III UI SOH WEDL TOTALS:	-1050.00 -1758.90	-2868.00 -1758.00	8.88 7.77	0.00 0.00	0.00 0.00	0.00 0.00
HIVESUN USED TUTALS:						

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.

# 16.17.11 Corporate YTD Expense and Revenue Report

M	< 🖪 🕨 🕨 🕅 752					Page	): l
OHESIVE	TECHNOLOGIES IN						
/08/2003							
D EXPENSE	AND REVENUE REPORT 10/03	FOR Entire Corporati	lon				
ACCT DE	SCRIPTIO)	CUCERCENT MONTH	202		YOU BUILDY	<b>31708</b>	אני ערוע
TRACE IN A STORE							
20100000	ROSINESS INCOMI	\$ <b>00</b> .00	12600.00	4000.00	8000.00	1Z5.00	155.21
20150000	BOSINESS INCOME	0.00 0.00	0.00	0.00	0.00	0.00	106.2
20950000	SALE DISCOUNT	0.00	0.00	0.00	0.00	0.00	D.0
20900000	DITUDS	a.oa	0.00	0.00	0.00	0.00	D.Q
HIVESUN ASCH		5040.00	12590.00	4000.00	8040.00	125.00	155.2
IIIVISIDN ASE	0						
20100000	BUSINESS INCOME	10000.00	25D0D.0D	00D0.00	LEDOD.OD	125.00	156.2
20150000	PREIGHT INCOME	0.00	D.OD	0.00	D.OD	0.00	D.0
20850000	SALE DISCOURT	0.00	D.OD	0.00	D.OD	0.00	D.0
20900000	REFURDS	0.00	D.OD	0.00	D.QD	0.00	D.0
III VII SON ASKO		10000.00	25000.00	0000.00	16000.00	125.00	104.1
III VII SIDN ASP							
30100000	HUSINESS INCOME	0383.00	6332.50	2666.40	5332.6D	125.00	156.2
30150D00	FREIGHT INCOME	a.oa	D.OD	0.00	D.OD	0.00	D.0
30650000	SALE DISCOURT	0.00	D.OD	0.00	D.OD	0.00	D.0
30900000	REFUNDS	0.00	D.OD	0.00	D.OD	0.00	D.0
IIIVISIN ASIV		3333.00	6992.50	2666.40	5992.60	125.00	20.4
					14000 45		
30100000 30150000		10000.00	25000.00	8000.00 0.00	16000.00	125.00 0.00	156.2
30150000	BREIGHT INCOME SALE DISCOUT	a.aa a.aa	0.00 0.00	0.00	0.00 0.00	0.00	0.0 0.0
30300000		0.00	0.00	0.00	0.00	0.00	0.0
		10000.00	23000.00	*****	16000.00	123.00	55.1
20100000	BOSINESS INCOMI	10000.00	25000.00	8000.00	16000.00	1Z5.00	155.Z
20180000	PREICHT INCOME	a.oa	0.00	0.00	0.00	0.00	0.0
20950000	SALE DISCOURT	a.oa	0.00	0.00	0.00	0.00	D.Q
20900000	DETUDS	0.00	0.00	0.00	0.00	0.00	D.0
III VI SUT USIL	TOTALS:	10000.00	20000.00	\$000.00	16040.00	120.00	40.7
III VI SIDN WSS.	I						
20100000	BUSINESS INCOME	15000.00	LSDOD.GD	00D0.00	6000.0D	197.50	197.5
20150000	PREIGHT INCOME	0.00	D.OD	0.00	D.OD	0.00	D.O
0000000	SALE DISCOUNT	a.oa	D.OD	0.00	D.OD	0.00	D.01
20850000							

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.

# 16.17.12 Corporate Balance Sheet Report

10/08/2003 BALANCE SHEET 11		PLCT NO:1	
	J/03		
ASSEIS CURRENT ASSEIS			_
DIVISION ASCH			
10100000	CASH ON HAND	2496.00	
10200000	BANK CHECKING ACCOUNT	9367.50	
10300000 11100000	BANK SAVINGS ACCOUNT	0.00 8500.00	
11100000	ACCNT/RECVE.CUSTOMERS ACCNT/RECVS.OTHERS	0.00	
11200000	A/RBAD DEBTS RESERV	0.00	
12 100000	STOCK INVENTORY	750.00	
DIVISION ASCH		21133.50	
DIVISION ASKO		21155.56	
10100000	CASH ON HAND	4992.00	
10200000	BANK CHECKING ACCOUNT	18775.00	
10200000	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 ASKO	TOTALS	42267.00	
DIVISION ASTN	I		
10100000	CASH ON HAND	1663.83	
10200000	BANK CHECKING ACCOUNT	6257.71	
10300000	BANK SAVINGS ACCOUNT	0.00	
11100000	ACCNI/RECVE.CUSIOMERS	5666.10	
11200000	ACCINT/RECVSOTHERS	0.00	
11900000	A/RBAD DIETS RESERV	0.00	
12 100000	STOCK INVENTORY	499.95	
DIVISION ASTN	TOTALS	14007.59	
DIVISION ASVN	I		
10100000	CASH ON HAND	4992.00	

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.

# 16.17.13 Corporate Trial Balance Sheet Report

Print Preview - CORI Entire Co 10/08/2003 TRIAL BALANCE	rpora	× * • • •	
ACCT	DESCRIPTION	ТУРЕ	CURRENT I 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.

# 16.17.14 Corporate General Ledger Report

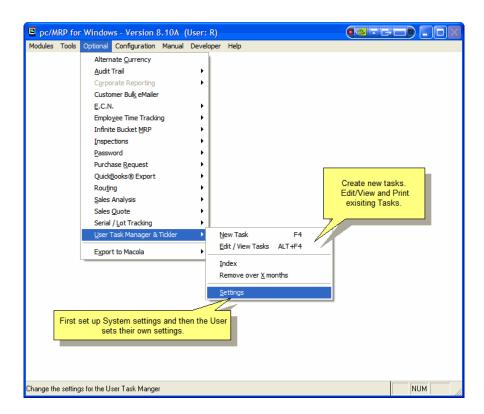
10/08/20		OGIES IN FOR ENTIRE CORPORATION	10/03					8408 90:1 Corperse, PR	
TRACE	MATE CHECK	# DESCRIPTION	COMPANY	1 Martin	<b>1210/121</b>	BEC	DESTIT ANT	CREDIT MET	
DIVISIO	R ASCH)								
CCOURT 1	LE10000 CASH D								
TARTER	BALLANCE FOR THE						D. 00		
	BALLATE FOR THE						0.00		
1 100000		STARTING BUSINESS					2500.00	0.00	
000012 1		FRY'S					0.D0	<b>d</b> . 00	
	LANCE FOR THE BU ALANCE FOR THE	<b>DIN</b>					2486.00 2486.00	0.DQ 0.DQ	
COURT 1	10200000 BARK C	HEADING RECOURT							
	BALANCE FOR YTD						0.00		
	BALANCE FOR THE						0. 00		
000001 1		STARTING BUSINESS					5000.00	D. GO	
1 700000		TO PRODUCTS					6000.00	0.00	
0000000 1		) G0322					0.00	326.00	
000009 1		R TERRES					0.00	500.00	
000010 1		3 F EXAMINER					0.00	25.00	
1 11000		B BERGAL					0.00	350.00	
000013 1		WFB INTEREST					12.60	0.00	
	LANCE FOR THE CO ALANCE FOR TTO	OTE .					9387.50 9387.50	0.DQ 0.DQ	
COURT :		RECTR . CLISTICHERS							
	BALLANCE FOR TTD						0.00		
	DALASTE 708 TOE						0.D0		
000002 1		STARTING BUSINESS					2000.00	D. 00	
000006 1		TE PRODUCTS					7500.00	D. 00	
1 700000		78 PRODUCTS					0.00	6000.00	
	LADCE FOR THE BU ALASCE FOR THE	D1H					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.

# 16.17.15 Corporate Transaction Report

0/08/2003	OLOGIES IN				10:1 HTRAH. I FM
RANSE DATE CHE	TRANSACTIONIZATIRE CORPORATION 10, CEH DESCRIPTION COMPANY	PELATED DOCH ACCT		DERIT ANT	CREDIT ANT
DIVISION ASCH					
00001 10/08/09	TAKTING BOSIDE	TDTODGOD	CASE ON HAND	2500.00	0.00
		10200000	HANK CHECKING ACCOUNT	5000.00	0.00
		12100000	STOCK INVESTORY	3000.00	0.00
		251 00000	STARTING CAPITAL	0.00	10500.00
00002 10/08/03	TAKTING BOSINE	1320000	FURDITURE & FINTURES.	7500.00	0.00
00002 10100100	STRATING BOSTAS	11100000	ACCMT/RECVB. COSTINERS	2000.00	0.00
		15100000	PREPAID EXPENSES	500.00	0.00
		25100000	STARTING CAPITAL	0.00	10000.00
00009 10/08/09	TLATING BOSID	251.000.00	STARTING CAPITAL	1 2500.00	0.00
		24100000	NOTES JAVABLE	0.00	12500.00
00004 10/08/03	FTOLK INV ADJOS	40100000	STARTING INVENTORY	3000.00	0.00
		12100000	STORE INVENTORY	0.00	3000.00
00005 10/08/09	KELKT	41100000	FOR CHASE 5	1500.00	0.00
0000 10100100		41400000	FREIGHT	200.00	0.00
		201 00000	ACCMTS/PAYAB. VENDORS	0.00	1700.00
00006 10/08/03	PRODUCTS	L1LODGOD	ACCETT/RECVE. CUSTORERS	7500.00	0.00
0000 10100100		30100000	HUS IMEAS INCOME	0.00	7500.00
00007 10/08/03		10200000	BATE CHECKIDS ACCOUNT	6000.00	0.00
		11100000	ACCNT/RECVB. COSTINERS	0.00	6000.00
00008 10/08/09	P (3-0222	501.000.00	TLOTS	250.00	0.00
		22100000	DAYROLI TAX. F.B.T.	0.00	25.00
		10200000	BANK CHRICKING ACCOUNT	0.00	225.00
00009 10/08/03	RIDERS	6150000		500, 00	0.00
		102 00000	BANK CHECKING ACCOUNT	0.00	500.00
00010 10/08/09	5 F EXAMINER	5010000	ADVERTISING	25.00	0.00
		10280800	HANK CHECKING ACCOUNT	0.00	25.00
00011 10/08/03	B BERENAL	61000000	INSURANCE. GENERAL.	350.00	0.00
20011 10100100	2 CAMARD	10200000	HANK CHECKING ACCOUNT	0.00	350.00
00012 10/08/09	577 ' 3	61400000	OFTICE SUPPLIES	4.00	0.00
00012 10/00/03	tans 13	10100000	CASH OF HAND	0.00	4.00
		10100000		0.00	4.00

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 User Task Manager & Tickler Module

# 16.18.1 User Task Manager & Tickler Module Overview (see the slideshow here: http://www.pcmrp.com/mrp101/utmt010.htm)

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.

#### 16.18.2 Activating the User Task Manager & Tickler Module

Select Configuration, Module Activation, and then User Task Manager & Tickler Module from the menu.

To activate this module: Call Software Arts (408-226-7321) to obtain your activation code number. Press the "Activate" button and enter your activation code number.

pc/MRP for Windows - Version 8.10A (User: R)	
Modules Tools Optional Configuration Manual Developer Help	First, set up the System wide settings. User must have 'Configuration' rights of 'D' to change the System Wide Settings.
Task Manager Settings	
Settings for the Current User System Wide	Settings
Obtain the User list from C Manually entered by the Users (© Password Module	
Obtain the Category list from C Manually entered by the Users • Pre-defined Category list D	efined Categories
Task Visibility	NOTE: If you do not have the Advanced Passsword Module installed, anyone who is able to login to pc/MRP can change the System Wide Settings.
	Save Cancel
	NUM CAPS

16.18.3 Setting the System Wide Settings for the User Task Manager & Tickler Module

# 16.18.3.1 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.

# 16.18.3.2 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 below:

pc/MRP for Windows - Version 8.10A (User: R)	
Modules Tools Optional Configuration Manual Developer Help	
📮 Task Manager Settings	The system administrator can access
Settings for the Current User System Wide Settings	this scree by pressing the "Defined Categories" Button. On this screen you can add, delete,
Obtain the User list from C Manually entered by the Users C Password Module	and re-arrange the list. To re-arrange the list, click and hold the double-headed arrow on the button next to the category and move the item up or down in the list.
Obtain the Category list from	
C Manually entered by the Users Pre-defined Category list Defined Categories	
Task Visibility  © Users can see only their own tasks © Users are permitted to view all tasks	egories
Defined Categories	New Item
Accounting General AP Review Application Mainter	<u>R</u> emove
AR Review Collection Call Conference Engineering Chan General Inspection	ge
	NUM CAPS

# 16.18.3.3 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.

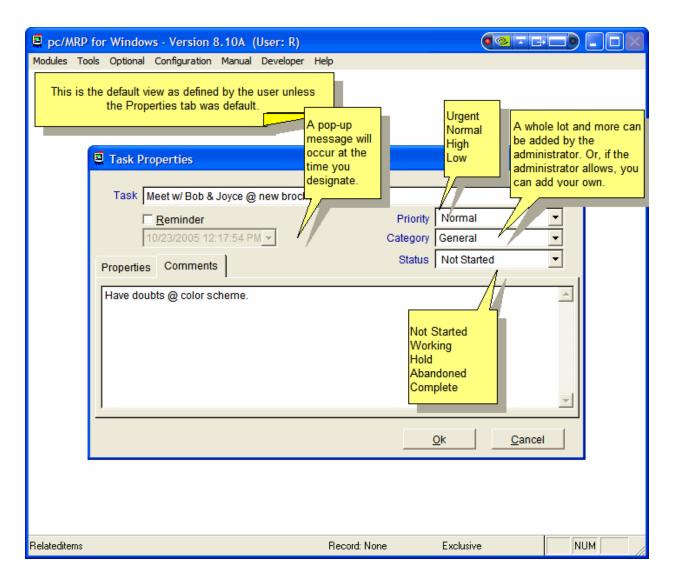
# **16.18.4 Settings for the Current User**

pc/MRP for Windows - Version 8.10A (User: R)	$\boxtimes$
Modules Tools Optional Configuration Manual Developer Help The user can set and change their settings at any time. Task Manager Settings Settings for the Current User System Wide Settings	
Miscellaneous Settings       Default Category         General <ul> <li>Default tab during task view</li> <li>Comments</li> <li>Choose your own sound!</li> </ul> Reminder Settings <ul> <li>The task manager should check for task reminders every 30 ÷ seconds.</li> <li>Minutes, Hours, Days, Weeks, or Months</li> </ul> Minutes, Hours, Days, Weeks, or Months           Default tab during task view <ul> <li>Automatically set a reminder during Task relation</li> <li>Default Setting:</li> <li>Hour(s)</li> <li>Hour(s)</li> <li>Hour(s)</li> <li>Minute(s)</li> <li>Hour(s)</li> <li>Months</li> </ul> Very Play a sound when the Remin Day(s)         Week(s)           GONG.WAV         Month(s)	
Save Cancel	5

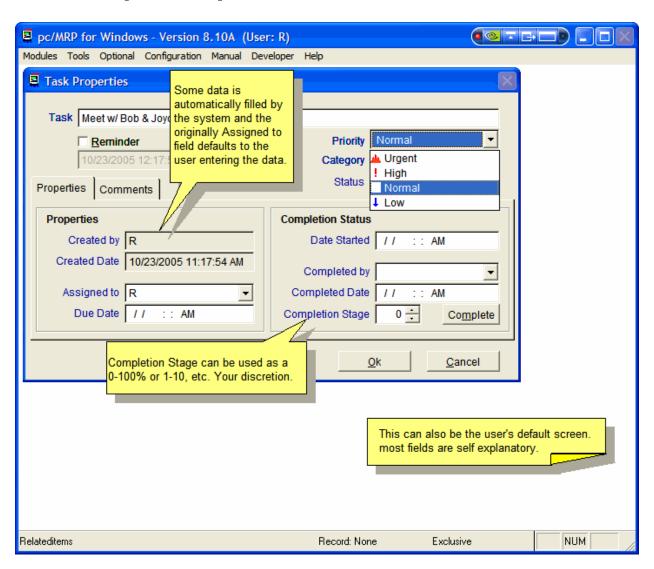
Default Category and Default Tab for comments or Properties can be changed by each user logon. Categories may be added if allowed by the system administrator. If additions are allowed by the administrator, only a 'General' category is supplied to start with. The user may enter one here or on the task screen.

#### 16.18.5.1 Entering a new Task or Tickler. Step 1.

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



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.



# 16.18.5.2 The Properties tab. Step 2.

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.

# 16.18.6 Editing Tasks and Tickler details.

Selecting 'Edit/View Tasks' from the User Task Manager & Tickler menu will bring up the following screen.

	/MRP for Windows - V es Tools Optional Conf		· · · · · · · · · · · · · · · · · · ·	elp	(	• ∞ - ⊡		
	Tasks (Filtered)						D	3
	Category	Assign to	Task			Due Date >>>	<b>&gt;</b>	<b>^</b>
Þ	General	ROB	Staff meeting			10/23/2005 0	4:00:00 PM	
	filter by l	R e Filter button a Priority, Statu, ( o, Due Date, Cro Completed by	llows you to Category, eator, and/or Pres	This is the print		ing a wide	15:00:00 PM	
	his is the 'Edit/View' sc y clicking on the colum		can be sorted					
Taskta	ble			Record: 1/2	Exclusive		NUM	

Selecting 'Open' button will open the details for the selected task, in this case, 'Staff meeting'.

# 16.18.7 The Task Filter Criteria window.

Pressing the Filter button on the Tasks window presents this screen.

pc/MRP for Windows - Ver		· · ·		●◎▼母□			
Modules Tools Optional Configuration Manual Developer Help							
📮 Tasks (Filtered)							
	Assign to	Task		Due Date >>>	<u>_</u>		
	ROB	Staff meeting		10/23/2005 04:00:0			
✓ General F	ę	Meet w/ Bob & Joyce @ new b	prochure	10/25/2005 05:00:0	₩ ₩		
<u>F</u> ilter <u>O</u> pe	Task Filter	Criteria					
	Priority	Show All 🗾	Due Date	Show All	<b>_</b>		
Pressing the 'Clear Filters' button will	Status	Show All Uncompleted 🔻	Creator	Show All	-		
reset all options to 'Show All'	Category Assigned to		Completed by	Show All	•		
	Clear <u>F</u> ilter	rs		<u>Ok</u> <u>Canc</u>	el		
Tasktable		Record: 1/2	Excl	Pressing the 'Ok' bu return you to a newl 'Tasks' screer	y filtered		

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 above.

# 16.18.8 Completing or editing a Task or Tickler.

If you do not use the Properties tab, you may just adjust the 'Status' box in the upper window area to 'Complete'.

For the Project tasks, the 'Properties' tab offers more options to complete the task.

E pc/MRP for Windows - Version 8.10A	(User: R)						
Modules Tools Optional Configuration Manual Developer Help							
E Task Properties			×				
Task       Meet w/ Bob & Joyce @ new broc         Reminder         10/23/2005 12:17:54 PM         Properties       Comments	Some data is automatically filled by the system and the originally Assigned to field defaults to the user entering the data.	Normal General Complete	Pressing the Complete button automatically filles in the Completed by as the user and the current date & time. Otherwise, just modify				
Properties	Completion Status	3	the data as you wish.				
Created by R	Date Started	10/23/2005 11:30:00 AM					
Created Date 10/23/2005 11:17:54 Al Assigned to R Due Date 10/25/2005 05:00:00 Pl	Completed by Completed Date	10/23/2005 11:25:18 AM					
	can be used as a tc. Your discretion.	<u>O</u> k <u>C</u> ancel					
This can also be the user's default s most fields are self explanatory.	creen.						
Relateditems	Record: Nor	ne Exclusive	NUM				

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.

# 16.18.9 Printing Ticklers or Tasks.

Pressing the Print button on the Tasks detail window brings up the following screen.

		ersion 8.10A (	· · · · · · · · · · · · · · · · · · ·	
Modules Tools	Optional Conf	iguration Manual	Developer Help	
🚊 Tasks (	Filtered )			
Cate	gory	Assign to	Task	Due Date >>> 🔺
Gene		ROB	Staff meeting	10/23/2005 04:00:00 PM
_ ≁ Gene	eral	R	Meet w/ Bob & Joyce @ new brochure	10/25/2005 05:00:00 PM
	Print Task(s	)		
	Output R All the disp	ange ayed Tasks in Lis	st format 💌 🔽 Include Comments	C Save Settings
<u> </u>	Send Outpo	ut to	Sort By      1 Status     2 Assigned User	Cancel
	Form Type		3 Due Date	
	<ul> <li>Stand</li> </ul>	ard C Custom	Group By	
	1			
		This is the stan	dard report window modified for the User Manager and Tickler Module.	r Task
Tasktable			Record: 1/2 Exc	clusive 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.

# 16.18.10.1 Remove Over X Months. Step 1.

Selecting menu item 'Remove Over X Months' is a two step process. First, the warning...

🗐 рс/	MRP for	Window	vs - Version 8	8.10A	(User: R)		
Module	s Tools	Optional	Configuration	Manual	Developer	Help	
					_		
	?	Today	's Date: 10/23	/2005			
	~	If the d	late is not corre	ect or vo	u have not		
			a back up of th				
			DO NOT CO	ONTINUE			
		Do you	ı wish to contir	nue?			
		<u>Y</u>	es	<u>N</u> 0			
				i M	<b>•</b>	1VI K P	
			Deletir	na recor	ds is a two	sten	
			process.	Pressir	ng the 'Yes'	button	
			takes	you to t	he next sc	re Arts	
							NUM

It is imperative that the date be today's date and that you have a back-up of the production pcmrpw directory.

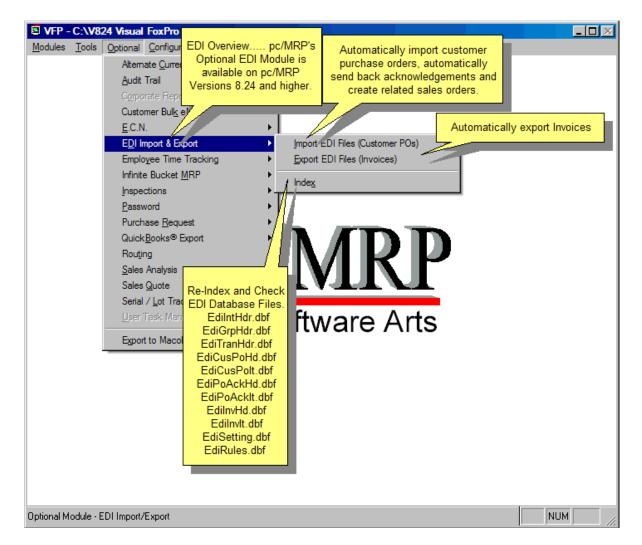
# 16.18.10.2 Remove Over X Months. Step 2.

Think of this window as only keeping the past 9 months of Task and Tickler records.

		rsion 8.10A (User: R)	
Modules	Tools Optional Config	uration Manual Developer Help	
	Step 2 of dele This screen is s	et to delete all	
	records older th	an 9 months.	
	R	Deleting records over X Months	
	42	<ul> <li>Enter the age of the records that you wish to delete.</li> </ul>	
		Age in Months	
		<u>O</u> K <u>C</u> ancel	
			-
			NUM

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 EDI Import-Export**



# 16.19 Overview

The Optional EDI Import-Export module allows electronic data exchange between you, your customers, and vendors.

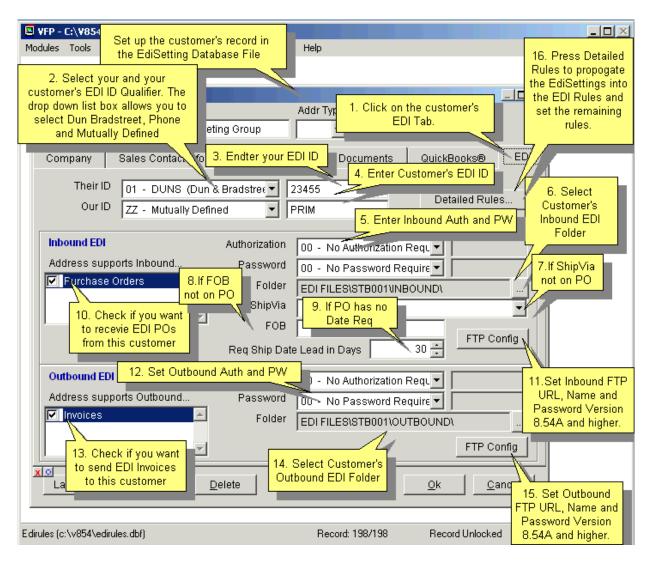
The EDI Module allows users to import Customer EDI Purchase Orders. pc/MRP will automatically create pc/MRP Sales Orders and if requested send an EDI Acknowledgement. Once the Invoice(s) have been created, pc/MRP will allow users to automatically create EDI Invoices. However, it is up to the user to 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

# 16.19.1 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 pcMRP Trouble Shooting Tricks

### 17.2.1 CTRL F11 Display/Print Memory Variables

Pressing CTRL F11 will display the current contents of all of the memory variables.

# 17.2.2 CTRL F10 Display/Print Status

Pressing CTRL F10 will display the current status of the program's tables, CDXs, and index tags in use.

# 17.2.3 CTRL F12 Display/Print the Call Stack

Pressing CTRL F12 will display the call stack. pc/MRP versions 8.01 and higher will display everything.

# 17.2.4 Datastru.dbf is Corrupt

If Datastru.dbf is corrupt, use explorer to delete it.

#### 17.2.5 Start Up Programs and Processes

With Windows 98 and higher, click on the Start button, select Run, type in msconfig.exe, pick Startup then look for programs that can cause start-up and or run problems. Such as: scheduling agent, printer monitors, virus checkers, etc.

With Windows NT, right click on the Start Bar and select Process.

#### **17.2.6 Device Properties**

For Windows 98 and higher, right click on my computer, select properties, click on device manager, select your device, click on properties, and then select the properties tab.

#### **17.2.7 System Information**

System information, DLL's, operating system, memory, etc can be viewed by selecting configuration, About pc/MRP, and System Information.

#### 17.2.8 Taking Screen Shots Within pc/MRP

By pressing Print Screen, a screen shot will be taken that can be pasted into MS Word by opening MS Word and pressing CTRL-V or Edit and Paste. In versions 7.50H and higher users can press CTRL-F8 to save, paste, or print the screen shot.

#### 17.2.9 Using pc/MRP's Command Line Function

pc/MRP's Command line function is a very powerful function allowing users to access pc/MRP's dbf, frx and lbx files using the Visual FoxPro database language. A user must have delete rights to the password module to access this function.

To open a dbf file enter USE (name of database).

To insert data into a field enter REPLACE ALL (name of field) WITH (value to insert, with quotes if txt)

#### 17.2.10 Opening up Windows Explorer in pc/MRP (Versions 7.50 and higher)

Often users are not sure how to open up Windows Explorer. A simple way to open up Explorer in the pc/MRP home directory would be to select "Configuration," "About pc/MRP," and press control "E."

#### 17.2.11 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 can be displayed/printed by selecting Configuration and About pc/MRP. Clicking the Send to File button will create a MS Notepad file that may be printed or emailed to Software Arts, Inc.

#### 17.2.12 Ctrl F-9 Display/Print Form Properties and Methods

When you are viewing a form, pressing Ctrl F-9 will display the forms methods and the settings for each of its properties.

#### 17.2.13 SFS() Server File Status

Entering SFS() in pc/MRP's command line displays all the open files and their status on the server. This function is available in pc/MRP versions 8.22 and higher.

#### 17.2.14 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**  $-\mathbf{r}$  /**s** /**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. You will find the full article here: http://mcpmag.com/columns/article.asp?EditorialsID=1213

### 17.2.15 Viewing Security / User Rights

With Windows XP Professional, 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'.

# 17.2.16 Pressing CTL-L six times when an error message is displayed will open pc/MRP's command line window.

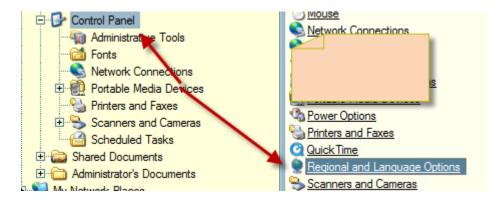
Type in "set data session to 1" and press the Execute button. Typing in:

- msg(alias()) would display a message box containing the name of the primary file in use.
- msg(order()) would display the current order (index)
- msg(set("relation")) would display the current relations (linkage)

# 17.2.17 Setting the Code Page Language in Windows

17.2.17.1 Step 1 Navigate to your Control Panel

Select the Regional and Language Options.



#### 17.2.17.2 Step 2 Select the "Regional Options" tab

Make sure that under "Standards and formats", "English (United States)" from the drop down list is selected.

Regional and Language Options	? X
Regional Options Languages Advanced	
Standards and formats This option affects how some programs format numbers, currencies, dates, and time.	
Select an item to match its preferences, or click Customize to choose your own formats:	•
English (United States)	
Samples	
Number: 123,456,789.00	
Currency: \$123,456,789.00	- 11
Time: 4:30 PM	-
Short date: 11/11/2008	- 11
Long date: Tuesday, November 11, 2008	-
Location	
To help services provide you with local information, such as news ar weather, select your present location:	nd
United States	
OK Cancel	oply

# 17.2.17.3 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         ✓       50229 (ISO-2022 Traditional Chinese)         ✓       51949 (EUC-Korean)         ✓       52936 (HZ-GB2312 Simplified Chinese)         ✓       54936 (GB18030 Simplified Chinese)         ✓       57002 (ISCII Devanagari)         ✓       57003 (ISCII Bengali)	
Default user account settings Apply all settings to the current user account and to the <u>d</u> efault user profile	
OK Cancel Apply	

Now click the **OK** button to finish and save the settings.

# 17.3 General Protection Fault and Freeze-up Problems (C5 Errors)

17.3.1 General protection fault errors and freeze up problems can be caused by:

Insufficient RAM memory Insufficient hard disk space Insufficient swap file size Hard disk corruption Too many programs running at the same time or two programs are conflicting Insufficient Resources Memory leakage Poorly written drivers (screen, print, etc.) Conflicting hardware addresses and interrupts Video driver conflict Driver and or program conflicts in upper memory Marginal network hardware Invalid temp directory Corrupt program or database files (exe, dbf, idx, mem, frx, frt) Fragmented hard disk (local and or remote) Print Spooler is turned off

#### 17.3.2 Insufficient RAM Memory

pc/MRP for Windows requires a minimum of 8 Megs of RAM. You can 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 require a minimum of at least 20 Megs 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[Rtn]. Once you have typed CHKDSK [Rtn] 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 reinstalling 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[Rtn] and then SCANDISK[Rtn].

#### 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. It 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 16-color 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.

# **17.4 Error Messages with Numbers**

# 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 you have deleted a file named BLKEDIT.WRI and 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.
- This error may also occur, if you have activated Audit Trail Module, with pc/MRP V6.53P, and are trying to edit a chart of accounts record. Call Software Arts for an upgrade to 6.54I or higher.
- pcmrpw.exe file is broken or corrupt, copy in a recent (same version) 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 that pc/MRP is working 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.
- If you are deleting an address id, answer Y to change everywhere and have not activated the infinite bucket module, and have pc/MRP version 6.80as and lower, pc/MRP cannot locate an action index. Update to the latest version of 6.80. If you have version 7.00, call Software Arts to walk you through entering following command line instructions:

do checkdbf with "action.dbf" msg = "ACTION" do re-index

- 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.
- Also see: **17.4.2091** if you have reason to believe that the database is corrupted.
- If you are using version 8.43A-8.43M and you get ChkArea does not exist, update to the latest 8.43 version.

# 17.4.3 File in use (error 3)

- This error exists in versions 6.49BK to 6.54I. This error happens when the user try to invoice with inventory adjustment method set to P (Parts). To correct, call Software Arts for update. For temporary fix, set inventory adjustment to A (Assemblies).
- 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.
- Earlier versions of 6.73, 6.74 and 6.75 would leave the purchase dbf file open after printing out a receiver. Download a manual update to version 6.73U, 6.74J or 6.75B or higher.
- If this error occurs while closing the month, re-close the month and be sure to select the last two GL reports to print or display. You can also update to 6.80AA or higher.
- 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.

# **17.4.4 End of file encountered (error 4)**

Re-index the related data base file(s)

# 17.4.5 Record out of range (error 5)

• 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 quote character(s) in your part number.

# 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.

# 17.4.10 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.
- This error message can occur if you have a single user version 6.55x or lower, and have activated the Audit Trail Module and are editing a PO, sales order, or quote line item. Update to version 6.55y or higher.
- pcmrp.bmp is corrupted; restore from backup.

# **17.4.11 Invalid Function (error 11)**

- Data base file structure has been altered by EXCEL. Delete the dbf file, restore from a back up copy, and reindex new file.
- If this error occurs while you are running an exploded BOM, MRP, or cost roll up report, check for a BOM calls itself, by running the "Audit BOM" report.
- pc/MRP has an invalid function in its source code; versions prior to 6.36AP had such an error when selecting sort by cost descending when running an inventory report.
- 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.

#### 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.

**NOTE:** CLRCONFIG.EXE will only work with pc/MRP versions 7.83 and lower (requires VFP6 dlls) because it will remove the company address from the Configuration, Settings and Utilities, Option 1.

- If you install pc/MRP twice, pc/MRP will report variable MFDRIVE not found. You must then run the CLRCONFIG.EXE program found in the pc/MRP directory. This file can also be downloaded from the troubleshoot section of our website www.pcmrp.com.
- 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.
- Issuing stock to manufacturing from the stock room module gives a Variable MSITEMNO not found error message.

Always answer Y; there is a sales order or work order number that you are issuing parts for. Answer N (no sales/work order) will cause this error.

- If you are trying to print out a BOM, run Audit BOM procedure and then fix any errors it may have reported.
- If you are running Audit BOM and have version 6.73ap and get an "MBOMNO NOT FOUND," update to the latest version via our website (version 6.73ar or higher).
- If you are running pc/MRP version 6.73AW or lower and the variable is **Module**, then update to a later version or call Software Arts. (Control L Instructions, Public, Module, Module = " " cancel, make a non-change edit to the configuration menu. Simply open and save.)
- If you are trying to open the **Logbook** in Inventory, (PROCEDURE PARTLOG PRPARTSC.FXP LINE 464 STRING VARIABLE NOT FOUND) select main menu to exit this error prompt. Re-enter inventory,

<u>M</u>odules, <u>I</u>nventory, <u>E</u>dit, and select <u>E</u>dit in the Action square. In View mode this error will occur on versions 6.80Y or older. In Edit mode this error will not occur.

- If you are trying to print out a report or form and get an "MCHIOCE NOT FOUND" and are running version 6.80 or 6.82 update to the newest revision of 6.80 or 6.82 available on the website.
- Could be an alpha character mismatch, update to the newest revision level of your version of pc/MRP, or call Software Arts.
- If you are trying to print a PO, delete that PO and try again.
- 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 and settings, and utilities to re-enter any blank lists.
- If you are trying to print a check with version 7.50J, and you get a variable MBAMT not found, post the month and reprint the check.
- If you are running pc/MRP Version 8.00 and the variable ByPWUser is not found, copy the wp.dbf and wp.cdx files from a back-up copy of pc/MRP (version 8.10 and higher do not have a '.CDX' file) 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 s updating an older version) re-install the new version of pc/MRP in a different directory.
- If you are running pc/MRP version 8.00, and the variable refers to an index tag in a .CDX file, use Option 27 to re-index all indexes. If that does not fix it (.cdx file may have been corrupted), update to pc/MRP version 8.00V or higher.
- You are doing a Accounting, GL trx, 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. Re-index via Accounting, Gl trx, index.

#### 17.4.13 Alias (file name) (error 13)

- Version 6.55G would display this error: 'Alias QUOTE not found', if you were entering a work order and changed the work order number issued. Call Software Arts and update to version 6.55H or higher.
- Versions 6.73Z and lower will display this error, call Software Arts and update to version 6.73AA or higher.

# 17.4.15 Not a table/dbf file (error 15)

- Database file that pc/MRP is trying to open is corrupt. This can be caused by hitting the reset button, turning off power, or hitting the escape key when pc/MRP is in the middle writing to a dbf file. Also see: **17.4.2091 Table 'tablename.dbf' has become corrupted (error 2091),** if you have reason to believe that the database is corrupted.
- If the dbf file is a temporary file (ACTION, ADDLBTMP, ADJLABEL, AUDITSN, AUDITMP, AVLDATA, BILLING, BILLTMP, BOMTEMP, CONSOL, COSTSALE, CYCTMP, DUPPART, ARSLSDST, ARSLSTRX, FIFOTMP, MAKECONS, MOVEMENT, MRPTMP, MRP2CONS, PPVTMP, PRGLTMP, PRTRNTMP, SANAL, TEMPECN, TEMPEST, TEMPSHRT) restore from a backup. If you have pc/MRP version 6.77f and higher, pc/MRP will intercept the error message and automatically recreate the dbf file.
- If the dbf file is a pc/MRP administrative file (ERROR, DATASTRU, MENU, MSG) restore from a backup. If you have pc/MRP version 7.00 and higher you can delete the file (Restarting pc/MRP will recreate the file).
- 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) restore from a backup or use Norton's File Fix program to fix the data base file or send the file to Software Arts for repair. If you have pc/MRP version 7.00 or higher and delete ACTMPLT or CHARTACC, pc/MRP will recreate the file with pc/MRP's original account numbers in them. Do not delete these files if you have added or edited pc/MRP's chart of account numbers or you have closed prior months.
- If the dbf file is your password data file, restore from a backup. If you have pc/MRP version 6.82P or higher, 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 control F12 and look for a memory variable named mdbfname that contains the name of the corrupt dbf file.
- Delete the index files associated with that database file and then re-index. Call Software Arts for the name of the indexes to delete.
- If it is the BOM database, it could also be RTMPLATE.DBK, which holds the BOM comments.

# 17.4.16 Unrecognized Command Verb (error 16)

Programming error. Call Software Arts at 408-226-7321 or update to version 6.78m or higher.

### 17.4.22 Too Many Variables (error 22)

Too many line items. Select SINGLE for REVIEW when editing.

# 17.4.24 Alias name is already in use (error 24)

This error may occur when updating from 680. Do the following:

- 1. Restore the pcmrpw directory from the backup.
- 2. From within the pcmrpw directory, run 'CLRCONFIG.EXE'.
- 3. Re-run the update program.

# 17.4.26 Table is not ordered (error 26)

- Somebody has created a .cdx file with the same name as a pc/MRP .idx (index) file. Call Software Arts for instructions on deleting the cdx file.
- RAM memory has become corrupt or network delivered a corrupt exe file. Reboot the computer and try again.
- Re-index, option 27 in the settings and utilities.
- Pc/MRP versions 8.00A to 8.00Q had this error msg appear when entering a PO and checking on the Debit scroll button. Update to version 8.00R or greater.
- If the error is for' process scroll4.sct', delete the file 'msg.dbf' from the production pcmrpw directory and relog-in.

# 17.4.30 Position is off screen (error 30)

- A row or column number is off the current screen. Versions prior to 6.36T and 6.49F would display this error message if you selected address book reports and then selected work order reports. This error can occur when the Windows 95 start bar is moved to the top of the screen (move the start bar to the bottom of the screen)
- 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. Call Software Arts to change the document number through the Ctrl-L function.
- The area.mem file contains quote marks in one of the area names. Remove the quote marks via Option 34.
- A lower case letter exists in the document number. Call Software Arts to correct this, unless you want to try to find the lower case letter yourself. For Example (replace all SONO with upper)
- Re-index. Option 27 in the Settings and Utilities module.
- Data you are importing from Excel has an invalid field name; Column (field) names must be alpha or numeric only, 10 characters or less. (older pc/MRP versions)

#### 17.4.36 Unrecognized phrase/keyword in command (error 36)

• Versions 6.54 - 6.55H could display this error msg if you enter your name as two words with a space in between the two words. Enter your name as one word, such as Jim or Smith or JSmith.

- If you are updating from pc/MRP version 6.55 or lower, the update may be trying to copy .wri files. Restore from the backup directory, pcmrpwbk. Use Window's Find Option, to find and copy all PO\*.wri files in the pcmrpw directory into a purlogs subdirectory. Delete all PO\*.wri files pcmrpw directory. Next copy all remaining \*.wri files into an addrlogs subdirectory. Delete all \*.wri files in the pcmrpw directory. Finally, rerun the update program.
- If you are trying to run an Addressbook report and get an error 36 on version 6.80AN or lower, update to the newest revision of 6.80.
- If pc/MRP is trying to create a temporary file with a use &mfile or copy structure to &mfile command and the path or file name has spaces in it, update to version 7.43c or higher (use (mfile) and copy structure to (mfile).

# 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 zero out the overflow. Users can also use dBASE or FoxPro 'replace' command to load valid values into that field.
- A BOM is calling itself. Run 'Audit BOM' and print the report to find the BOM.

# 17.4.41 Invalid or missing memo file (Error 41)

- Also see: **17.4.2091 Table 'tablename.dbf' has become corrupted (error 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.

# 17.4.43 Insufficient memory (Error 43)

- Insufficient RAM memory, requires 128 meg
- 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, 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 executable programs at the same time, close all programs, reboot, and try running pc/MRP by itself.
- Index may br broken. Re-index the affected database table.
- Restore the related database file(s) from a backup.
- Also see: **17.4.2091 Table 'tablename.dbf' has become corrupted (error 2091),** if you have reason to believe that the database is corrupted.

# 17.4.50 Report file invalid (Error 50)

- Report file was not updated or updated incorrectly. Call Software Arts for the name of the report file. Then copy over the correct .FRX and .FRT file from the PCMRPUPD dir to the PCMRPW directory.
- Related index files may need re-indexing.
- If you get this error when you are attempting to modify a report in version 7.41 and higher 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 pc/MRP's 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, you can call Software Arts, Inc. to 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.
- If you are running pc/MRP's MRP Consolidation Report with trace calculations on, set trace calculations to off and/or update to 6.73n or 6.74 or higher.
- 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.

# 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. (Reference 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 somebody shut off power to his or her PC. Get everybody 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. Attribute the file read/write ATTRIB -R [Rtn]. In the multi user version of pc/MRP for Windows, there are only 7 files that should be attributed read only (pcmrpw.exe, startmrp.exe, config.fpw, foxfont.fon, foxtools.fll, foxw2600.esl, msg.dbf,).
- This error msg may appear with a Sun server running SFT. If so have everybody log in to the under one user's name.
- This error message can occur if you have opened the drive and or directory shared as read only instead of full rights. In Windows 95, you must share the directory as well as the drive.
- Another program, such as Excel is using the .DBF file pc/MRP is trying to access. Close down the program.
- Tape backup failure can leave a file locked, get everybody off the network, and reboot the server.
- 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 releases as per 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 pc/MRP folder.
- Cannot update the cursor SULF, since it is read-only. The pc/MRP directory does not have MODIFY rights for the users.

# 17.4.112 Invalid key length (Error 112)

The product code size and suffix size = 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)

- Index is broken. Rebuild the affected table index by re-indexing.
- For versions 6.80 to 7.90 if this occurs while trying to log-on to pc/MRP, delete the MSG.IDX (.CDX in 8.00 & higher)..
- If you are using pc/MRP version 7.90 and lower with the Advanced Password module, delete both the MSG.IDX and the BYPWUSER.IDX.
- For version 8.00 and higher with the Advanced Password module, delete both the MSG.CDX and the WP.CDX. Also update to pc/MRP version 8.00Y or higher to prevent code page problems.
- 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, for versions of pc/MRP 8.00 and higher, 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. pc/MRP versions 8.22 to 8.23B require a "usesaeiu.flg" file in the production pc/MRP directory to use the VFP6 reindex files.

An easier way to register the re-indexing ".DLL" files is to go to the Windows 'Run' dialog window and enter:

- o regsvr32 {pc/MRP path}\vfp6r.dll
- o regsvr32 {pc/MRP path}\vfp6renu.dll
- o regsvr32 {pc/MRP path}\saeiu.dll

It is easier if you drag and drop the filenames, one at a time, onto the command line after the '/s '.

If saeiu.dll exists in the pcmrpw directory, pc/MRP versions 8.23C and higher 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.

- For versions 8.22 and higher, you can go to the command line and run "tablerandomize()", press execute, and choose the table, like addrbook.dbf for example. If you are using pc/MRP version 8.20 or 8.21, call Software Arts to get the file from the 8..20 development directory.
- 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)

# 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 the **remote.mem**; if so, delete it.
- Image file no longer exists for the partnumber.

# 17.4.214 Window has not been defined (error 214)

A window has not been defined or removed from memory. Versions prior to 6.36T and 6.49F would display this error message if you selected address book reports and then selected work order reports.

- Delete the salecost.mem and re-set via Option 35
- Or, call Software Arts for a new pcmrpw.exe as yours may be corrupted.

#### 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 Utility Module and run Option 27. 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 Can Not 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, QuickBooks 2006 and higher does not allow pc/MRP to backup the QBW file before exporting. (You must do this from within QuickBooks itself before exporting.) Select Options, 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 the computer.

#### 17.4.1103 Invalid Seek Offset (error 1103)

A general fault protection error may have occurred. Exit Windows, shut down the computer, restart the computer and pc/MRP.

Network disconnect. Check your computer power save settings. Set sleep to NEVER.

#### 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 actual 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.

#### 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.

# 17.4.1231 Missing operand (error 1231)

A report is missing a condition parameter. Versions 6.55AA and lower had this problem when sales and quote reports were sorted or specified by salesperson. Update to version 6.55AB

# 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 Control 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.

# 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 (10-30M)
- Your computer may not contain enough RAM. Add the line **memlimit=60** to the config.fpw file. Config.fpw is a text file that can be modified with notepad.

#### 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 pc Anywhere 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)

- Get everybody off pc/MRP, make a backup copy of your pcmrpw folder, and update your copy of pc/MRP by selecting "Configuration", "Download and install a new revision". If the directory was mapped as a drive, versions 750AP and 760N had this problem. See section 17.5.32 for further instructions.
- 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.

# 17.4.1429 OLE Error (error 1429)

- If a QuickBooks error, please see <u>16.16.6.1429</u>
- 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.
- 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.

# 17.4.1661 Invalid Excel format (error 1661)

Select "Save As: and choose Excel 2.0 - 4.0.

# 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 by the MSDOS attrib command. At the DOS prompt, attribute the file read/write by entering ATTRIB -R.
- 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).
- Versions 6.55E 6.55F would display this error msg because the second user cannot find msg. idx and msg.dbf is in use by the first user.

Call Software Arts and upgrade to pc/MRP version 6.55G as it adds the trailing \ to the default directory.

- 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 the 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.
  - o If you opt to release the locked file, and you have Windows NT Server,
    - Go to the server,
    - Select start, programs, and admin tools.
    - Select server manager and double click on the server.
    - Select "In use" right-click on the pc/MRP resource file and select "Close the open file".
  - o If you have windows 2000 server:
    - Go to the control panel,
    - Select Admin Tools, Computer Management,
    - System tools, Shared folders, Open files,
    - Select the pc/MRP resource file(s) that is(are) listed, right-click on it and select "Close the open file".
  - Another way to get to the "In Use" screen and remove the owner of a certain locked file:
    - Click on the "Start" button,
    - Select "Settings",
    - Select "Control Panel",
    - Double click on the Server icon,
    - Click on the "In Use" button
    - Select the pc/MRP resource file(s) that is(are) listed, right-click on it 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.
- You have restored from a backup CD ROM and all files are attributed read only. Un-attribute all files by using the ATTRIB \*.\* R command in DOS or highlighting all files, right clicking, selecting properties, and uncheck read only. You will have to go back and re-attribute a few files read only for 95 networks as specified in chapter 15.5.1.
- 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>MRP slideshow #2, slides 19 & 20</u>.

# 17.4.1707 Structural .CDX 17.file not found (error 1707)

User has created a .CDX index file for a .DBF file. Delete the associated .CDX file and re-index.

#### 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.

### 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. (for versions 7.90 and lower BYPWUSER.IDX and PWU.idx if you are receiving this error message when logging into pc/MRP). 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, remove all semi-colons(;) from partmast descriptions. Command Line: Replace all descript with chrtran(descript, ";", ",").
- If the message contains 'Quickform Generic...', Update to version 8.50Q of higher.

#### 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).

#### 17.4.1951 Error 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.
- See manual 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.

#### 17.4.2005 Error loading file (error 2005)

Try rebooting the client PC. If the error persists, re-install the pc/mrp from a manual update on our website for your version. This is possibly caused by a bad uncompress of the update files.

# 17.4.2062 Invalid Key (error 2062)

The receiver, sales order, invoice, or purchase order has a duplicate item number.

#### 17.4.2091 Table 'tablename.dbf' has become corrupted (error 2091)

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: 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. Backup the affected database files at the pc/MRP command line:
  - a. Go to Configuration, About pc/MRP, press CTL-L, 6-times.
  - b. As an example, enter 'copy file addrbook.\* to addrbook20090610' and press 'Execute'.
  - c. Press Cancel when process is complete (command line is cleared).
- 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 un the **pcMrpDRU\_1.2.exe**. This will extract the needed files (9) into a newly created sub-directory 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: http://www.pcmrp.com/mrp101/filefixclickondatarecovery.htm
- 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.

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 it's 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.

# **17.5 Error Messages without Numbers**

#### 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

- Record may start with one or more blank characters. If possible, change the field so that it starts with valid characters and not blank characters. Version 6.36AE and higher began to correct this problem by replacing 'FIND's with 'SEEK's.
- Part number size in configuration menu option 28 is set higher than 15. Reset it to 15 characters or lower. •
- 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 dBASE or FoxPro for Windows to replace the field with valid values.
- Use option 42 in configuration settings and utilities to zero out the overflow. This is usually caused by a PO ration of 0 (Zero) in Inventory.

# 17.5.4 Cannot bring up a record (partnumber with a lower case alpha character) from the scroll list

This problem occurs on or around version 6.55H - 6.55K. Call Software Arts for update to 6.55M.

#### 17.5.5 pc/MRP for Windows brings up a blank record instead of the record you selected

Record may start with one or more blank characters. If possible, change the field so that it starts with valid characters and not blank characters. Version 6.36AE and higher began to correct this problem by replacing 'FIND's with 'SEEK's.

#### 17.5.6 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.

#### 17.5.7 pc/MRP for Windows requires excessive key strokes to process records

Make sure the msg time-out time in pc/MRP's configuration menu is set at 1 or 2 seconds and not 0 seconds. With the Windows version of pc/MRP, setting the time-out time to 0 seconds leaves quantity adjustment messages on your screen indefinitely until you hit any key to continue.

#### 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 pc/MRP freezes up

If two people are entering sales quotes at the same time and the second computer freezes up, version 6.49BK and 6.53T and lower do not increment the quote number. Call Software Arts for update.

#### **17.5.11 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.

#### **17.5.12 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.

# 17.5.13 Letter of Floppy Drive You Are Installing From Message.

- You are trying to run pc/MRP from network neighborhood. Run pc/MRP from Explorer from a mapped drive. Within "My Computer", locate the PCMRPW directory and double click on the STARTMRP.EXE application file.
- pc/MRP is unable to locate the config.mem file within the pcmrpw directory. Delete a file named locate.mem (contains the name of the drive and directory pc/MRP is located in) and restart pc/MRP. This will create a new locate.mem file with the correct drive and directory name.

### 17.5.14 Macro Overflow.

Macro file has become corrupt or tool long, delete the macro file "username.fky" or re-enter the macro you are running.

#### 17.5.15 Library file is invalid

Library file has become corrupt in memory, exit pc/MRP and restart your computer.

#### 17.5.16 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). With pc/MRP version 6.80, call Software Arts for instructions on running overflow.prg. With pc/MRP version 6.82 and higher, run option 41 in the configuration settings and utilities menu to zero out the fields that have overflowed

### 17.5.17 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 dir.

#### 17.5.18 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/create rights to the module.

#### 17.5.19 Cannot delete a document.

- User selected VIEW rather than EDIT.
- The Advanced Password module is activated and the user does not have edit/delete rights to the module. In version 6.77a and higher the user must have delete rights if the Advanced Password module is activated.

#### 17.5.20 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.

#### 17.5.21 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 explorer to locate and delete the MSG.IDX file. Re-enter. pc/MRP will recreate the MSG.IDX file automatically.

#### 17.5.22 Running option 43, Repair invalid memo file, deletes the file being repaired.

pc/MRP versions 6.80k and lower contained this bug. The file that was selected to be fixed was renamed, msourcef.dbf. Rename msourcef.dbf back to the original name and download an update to a later version of pc/MRP.

#### 17.5.23 pc/MRP field contains nothing but asterisks or stars (numeric overflow).

Latest versions of 6.73 and higher contain a special program named overflow. This program allows the user to select a DBF field and zero out the overflow. Call Software Arts for instructions on running this program.

#### 17.5.24 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.

#### 17.5.25 Dates contain day and month, but are missing the century after updating to a Y2K version of pc/MRP.

Call Software Arts to receive an update to pc/MRP, version 7.01C or higher, or to receive a file named fixcent.exe. To apply fixcent.exe, make a backup up pcmrp and then copy fixcent into the directory where pcmrp resides. Double click on the fixcent.exe file that resides in your pcmrpw directory and this will fix your missing century dates.

#### 17.5.26 Insufficient memory when editing Address Book.

Go to the Configuration Settings & Utilities Option 52 to edit every text files. If a message come up indicating the file is too big to open in note pad, that is the file causing the problem. Go to the window explorer to rename the file to another file name and go back to the Configuration Settings & Utilities Option 52 to recreate the file.

# 17.5.27 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.

#### 17.5.28 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 ZAP the BOMTEMP.dbf file.

#### 17.5.29 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.

# 17.5.30 A Bill of Materials beame mixed-up after Entering and or Editing the BOM.

Version 7.40 through 7.43 and or updating from these versions could leave one or more BOM records with a blank ID. To fix this, enter the following command in the command line: use BOM index bomkey[enter]fillguid()[enter].

#### 17.5.31 Cannot open or locate Visual FoxPro Library File

Restore VFP6R.DLL and or VFP6RENU.DLL from a backup copy if either of these two library files are missing.

#### 17.5.32 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.
- pc/MRP versions 7.50 and higher use the following DLL files, VFP6R.DLL and VFP6RENU.DLL
- pc/MRP versions 7.52 and higher use the following .OCX files, MSCOMCT2.OCX (Date Picker), CTSCTSCHEDULE.OCX, TIME LINE OCX, CTTABS.OCX, CTTIPS.OCX (MRP Timeline Report)
- pc/MRP version 7.83 added MSCCOMCTL.OCX (Tree View for Corporate Reporting)
- 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 be aware 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 version 7.90U contains a function that can be run from the pc/MRP command line; registerocx() or registerocx("filename"). This function copies an OCX file from the pcmrpw directory to the correct system folder on the user's computer and registers the ocx on his computer. If you use registerocx() without a filename, this function will allow you to select the correct .ocx file from within the pcmrpw directory. You must have administrator rights on the workstation computer to run this function. Please call Software Arts, Inc. for instructions on getting to pc/MRP's command line.

- pc/MRP version 8.20U and higher containing 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.)
- Other cures might include disabling a virus checker that is not allowing un-registered DLLs to run or an operating system doing the same.

#### 17.5.33 Version Mismatch

Pc/MRP has detected a version type mismatch. This can occur if a manual update is downloaded from our website and applied to a different version of pc/MRP. Restore from a back-up or call Software Arts, Inc. to install a full update to the latest version. Menu option Configuration, About pc/MRP displays the version of the pcmrpw.exe file; the version displayed at the top of the pc/MRP window comes from the config.fpw file.

#### 17.5.34 Alias config.tmp is not found.

Select ignore, then Cancel. Go back into pc/MRP and the problem should be fixed.

#### 17.5.35 Subscript is outside defined range

See Error #12 (17.4.12) write-up regarding pc/MRP versions 8.00A-8.00Q

#### **17.5.36 pc/MRPs Stockroom 'Issue Parts to Manufacturing': 'Always Ask' Option does not work..** Update to pc/MRP version 8.00P or higher.

#### 17.5.37 Cannot change quantities, costs, and locations when adding part numbers.

Change Option 62 to allow editing of these fields.

### 17.5.38 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. "8.00AK".

#### 17.5.39 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.

# 17.5.40 Unable to access the "\_\_\_\_\_" data table. The index file could not be created.

pc/MRP was unable to obtain exclusive access to the named table. Get everybody off the table and try again or see error 1705 (17.4.1705) for solutions if it is a phantom file lock.

#### 17.5.41 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. Pc/MRP versions 8.15 and above have a Cancel button for the administrating computer to use. You can then re-evaluate the scheduler's re-try options and then remove the Administrative Lockout.
- For versions of pc/MRP 8.14 and lower, you must do a Ctl-Alt-Del on the administrative computer to stop that instance of pc/MRP, re-login and change the scheduler's re-try options.

#### 17.5.42 Consolidated Infinite Bucket Report contains erroneous data.

Call Software Arts, Inc. to clean up (ZAP) the MRP2CONS.dbf file.

#### 17.5.43 Invalid Seek Offset (without an 1103 error number)

- 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.

### 17.5.44 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.

#### 17.5.45 An essential program file has generated an error API00??

A software spike error has occurred; call Software Arts for corrective action.

#### 17.5.46 Delayed Write Failed error message

Windows 2000 requires SP4, XP requires SP2.

#### 17.5.47 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. Manual section 15.1.41.

#### 17.5.48 One or more users cannot view area 3 in the Inventory screen

With versions 8.40 and lower and versions 8.43M and lower, the Optional Password module would create a Master/Master record without rights to stores area 3 when the password database was created. Users created from the Master/Master record, would not have access to stores area 3. For any record created from the Master/Master record and the Master/Master record itself, hide inventory area 3, save it, then un-hide the inventory area 3 and resave the record. By doing this for the affected records, you will not have to re-enter all the other permissions already given to the user(s).

#### 17.5.49 Drive space is Critically Low

ce is Critically Low
Your temporary file drive (C:) has only 48.05 MB Remaining.
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
essage will refer to the user's computer if pc/MRP runs in a wironment. If in a Terminal Server environment, this refers to ninal server's drive. Contact your IT department to resolve the n.

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# **17.6 Print or Display Problems**

#### 17.6.1 Windows version of pc/MRP appears in a small window in upper left portion of screen

pc/MRP is designed to completely fill a VGA screen (640x480). Running pc/MRP in SVGA (800x600) or higher mode, will allow pc/MRP to appear in a smaller screen in the upper left portion of the screen If you do not have a high resolution screen that is 14" or larger, the characters may appear to small. To change your display setting, enter the Windows setup program from the DOS prompt by typing setup in the Windows directory, select display, select VGA or 800x600x16. In other cases, you may have a special screen driver with its own icon found in the main group icon. Click on the icon and select VGA or 640X480. Some of the more expensive video cards allow you to increase the font size without changing the resolution. In this case, you would simply increase the font size. One advantage of running pc/MRP in a higher resolution mode is that you can keep several active programs on your screen at the same time including multiple copies of pc/MRP. You can then move and resize any of the active programs on your screen including pc/MRP.

#### 17.6.2 Windows version of pc/MRP appears to large for your screen

pc/MRP is designed to completely fill a VGA screen (640x480). If you are running an older EGA or Hercules Monochrome Monitor, try to your screen to VGA mode. Enter the Windows setup program from the DOS prompt by typing setup in the Windows directory, select display, select VGA or VGA with Monochrome display provided your monitor can support VGA resolution.

#### 17.6.3 Windows version of pc/MRP breaks up when you are entering data

If you are running in 800x600x256 colors mode, switch to 800x600x16 colors or VGA. To change your display, enter the Windows setup program from the DOS prompt (by typing setup in the Windows directory, select display, select VGA or 800x600x16.

#### 17.6.4 Cursor jumps around when scrolling a data base file

Re-index the data base file that is being scrolled.

#### 17.6.5 Reports do not print out or display correctly with Windows version of pc/MRP

- You do not have a default printer driver installed Go to Control Panel, select Printers, select Add Printer or make one of the existing printers your default printer.
- You do not have a compliment VGA or SVGA driver installed in Windows Setup Use Windows setup program to install a standard VGA or SVGA screen driver.
- You do not have the correct printer driver installed as your default printer Install the most recent printer driver from Microsoft and or the printer mfg 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).
- pc/MRP does not print out one or more fields on reports or forms on network printers that it does print out on local printers. If you have an NT server set it to spool raw print jobs.
- 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, 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. If you have an NT or 98 server you can increase the printer time out settings by selecting settings, printers, right click on the printer, select properties, select ports, select configure port, set time out transmission retry to 60 to 90 seconds.
- 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 print out with \*\*\* instead of totals you probably are using a generic print driver. Change to a valid print driver for that printer.
- 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 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.

# 17.6.6 Forms such as invoices, POs, etc. take a long time to begin printing or displaying

Forms such as invoices, receivers, POs, and sales orders should display or begin printing out within 29 seconds unless the data base file contains corrupt records. You can order an update, the form printing code was changed to minimize the effect of corruption with version w6.36y and 6.49i or higher. The revised versions will begin displaying/printing out forms within 11 seconds regardless of corruption.

### 17.6.7 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.

#### 17.6.8 Print outs are too slow on a dot matrix printers with pc/MRP for Windows

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 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 Kev 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

# 17.6.9 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 from disk.
- Enter another record, print it out, then print out the previous record that would not print out.
- Purge the documents you are trying to print and try printing the document again.
- If users have a 16-bit version of pc/MRP (7.06 and lower) the temp directory may be located in folders with names over 8 characters or the name may have spaces. Either update to the 32-bit version or change the temp folder name to a compatible name.

#### 17.6.10 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)

#### 17.6.11 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.

#### 17.6.12 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.

#### 17.6.13 Form contains fields from another record

Delete the database reference for the field. For example purchase.modelno should be just modelno.

### 17.6.14 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.

#### 17.6.15 Right side of forms and or reports are cut off on the Okidata printers.

If the user has version 6.73 they can download a file named form673.exe from the Technical Support section of the pc/MRP web page.

#### 17.6.16 Printing out a line item form goes into an endless loop.

If you have pc/MRP version 6.73av or lower update to the latest version.

#### 17.6.17 Printouts and editing BOMs take a long time.

- If you have a Novel or Windows 98 network make sure all 6 required read only files are marked read only.
- Eliminate other programs running in the background such as, screen savers, anti-virus programs, etc.

#### 17.6.18 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.

#### 17.6.19 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.

#### 17.6.20 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.

#### 17.6.21 Reports and forms require the printer's print button to be pressed to print.

This can occur in versions 7.41A-7.50M. To correct this update to 7.50P or higher and enter the following command in the command line: FRXHPFIX\_ALL() & press [Execute]. This function will clear everything from the Tag1, Tag2 fields, and Expr fields with the exception of leaving the orientation in the Expr field, in all report files.

#### **17.6.22 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.

#### 17.6.23 Running 16-bit report with 32-bit version of pc/MRP.

This will cause an error when running the report as well as an error 50 when opening the report using option 24. See error 50 for the fix.

#### 17.6.24 Sales Order will not display or print.

The Sales Order line item number is not numeric.

#### 17.6.25 Print to Excel loses report columns.

Other than the primary DB table, linked DB tables used in reports are not exported to Excel, DBF, or TXT files.

#### 17.6.26 BarCode fonts do not print out.

Use Option 24 to modify a label or form (report). Click on the barcode field, select format, font, BC39 2/1 Medium. Different operating systems may display the font names slightly different.

#### 17.6.27 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.

#### 17.6.28 PDF file doesn't open correctly for user receiving the file.

See Section 17.11.2

### 17.6.29 Error Loading Printer Driver.

See section 17.11.1

#### 17.6.30 Error when using PDF printer driver with Vista 64 bit computers.

See Section 17.11.2

#### 17.6.31 Printing reports shows the **RED** Ctl-F12 information in the upper right corner.

Do not print from the display window tool bar icon. Instead, select print from the menu bar.

#### 17.6.32 Displaying or printing a report, form, or, label pops up a window looking for a picture file.

The report or form contains a reference to a file picture file (.BMP, .JPG, .GIF, etc) that does not exist in the referenced location. To fix this, open the report, for, or label that has this error using option 24 in the settings and utilities. Then, remap the image to the form. Save the file as this will save the full true mapping of the image. If the files name is not known, call Software Arts, Inc. and a support person will go to the command line, enter "use filename", browse, locate a tag# 17 to see the actual picture/logo reference on the form.

# **17.7 Start-up and Update Problems**

## 17.7.1 pc/MRP having trouble starting up and or installing

- Video card driver has compatibility problem with pc/MRP. Use Windows Setup program to change to a standard VGA video driver.
- The pcmrpw.exe or fpw2600.esl execute files are damaged. Call Software Arts for instructions on replacing those files.
- For divide by zero, overflow and invalid library error messages on 400-megahertz Pentium computers, go to the Technical Support page on our webpage to download the foxw2600.esl program.
- The computer you are trying to install pc/MRP has a virus that has copied itself from the computer to the installation disks and overwritten one of the files on the installation disk. 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.
- Cannot create workspace. Change user rights to allow the creation of files.

### 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.

### 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 Divide by zero, overflow and invalid error message appears

If you are using pc/MRP version 7.01 or lower, go to the technical support page on our website at http://www.pcmrp.com and download the FOXW2600.EXE program.

### 17.7.6 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.

### 17.7.7 "Microsoft Product in Use by Another" error appears

Workstation has not been mapped to the server.

#### 17.7.8 "Unable to find the remote location" error appears.

pc/MRP remote support was initiated in the versions 8.40U and 8.43J with a 'CTL-R' entered at the 'Configuration, About pc/MRP' screen. Since some computers may have a different mapping for 'CTL-R'. This was changed in version 8.40Y and 8.43P to use a 'CTL-T'.

- 1. The *remote.mem* file containing the path to the server is invalid or non-executable. Delete the *remote.mem* file in the pcmrpw directory.
- 2. Go to menu item 'Configuration and set the Admin lock, wait until everyone but you is out of pc/MRP, exit pc/MRP, back up the pc/MRP file directory. Back to 'Configuration ' and select 'Download and Install a New Revision.' to update to the current version of pc/MRP.

## 17.7.9 "Can not locate support library" error appears.

Either the foxw2600.esl or foxtools.fll has been attributed as a systems file. Un-attribute the two files using the following command at the DOS prompt: attrib -s foxw2600.esl [press enter] attrib -s foxtools.fll [press enter]

## 17.7.10 Error 108 Message Appears

• The read-only window on the last floppy is open. Close the window, re-insert the floppy, and re-start pc/MRP.

## **17.7.11 Invalid library file**

• Close all programs and reboot the computer displaying this message.

# 17.7.12 "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.

### 17.7.13 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 nbr). Update will not go through. Call Software Arts to receive a config.fpw file that matches your original version and revision number.

### 17.7.14 "Enter the password recreation authorization code" error message appears

• pc/MRP's advanced password database file has been deleted. Restore pw.dbf from a backup copy of your pcmrp directory or call Software Arts for the Password Recreation Authorization Code. 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.

### 17.7.15 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 has the advanced password program. Delete a file named wp.dbf. Restart pc/MRP, it will detect the missing database and ask to recreate it. Select Yes. A window will appear that requires an authorization code. The authorization code is based on the last 4 digits of 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.
- 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 last 4 digits of the user's telephone number. Call Software Arts for the Password Recreation Authorization Code (will be displayed after the words "Show Password").

## 17.7.16 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.

# 17.7.17 "Install Disk 2" message appears.

- The CD reader cannot read the CD. Try to install pc/MRP in another PC that has a newer CD reader.
- The internet download is not complete. Try to download pc/MRP again.

## 17.7.18 "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.

### 17.7.19 "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. There are two reasons this error can occur. The first is that the network administrator has locked out the user's right to install a print driver. The second is that occasionally Windows 95, 98 and ME

will display this error message. Exiting pc/MRP and starting pc/MRP again will usually allow pc/MRP to restart without this error message. If you do not need to generate HTML files, you can turn off this option in "Configuration", "Settings and Utilities", Option 19.

### 17.7.20 "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 by entering the following command from the DOS prompt: c:\attrib –s temp or whatever your temp folder is named.

### 17.7.21 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.

### 17.7.22 pc/MRP tries to start then disappears and may or 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 insure 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.
- Person installing pc/MRP from the CD then ran the update program on the CD. Delete the pc/MRP directory and re-install. Do not run the update program.
- 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:\pcmrp
- Reboot workstation.
- Download a copy of pc/MRP to the workstation. If that runs, it may be a network 'rights' issue.

### 17.7.23 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 (or C:\WINDOWS\SYSTEM folder for WIN 95/98).
- 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.

### 17.7.24 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

### 17.7.25 pc/MRP does not start-up in full-screen mode.

• For versions 8.00K and higher, create a file named pcmrpscr.max in the pcmrpw directory.

### 17.7.26 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.
- Use Windows Explorer to delete the file "MRPBUSY.flg" from the production pcmrpw directory.

### 17.7.27 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.

### pc/MRP Versions 8.00X and lower

Restore the WP.DBF and WP.CDX file from a backup. Use Notepad and add the line CODEPAGE = 1252 to the last line of the CONFIG.FPW file. Save the file without the .TXT suffix by doing a Save As and putting double quotes around the filename as such: "config.fpw". This will preserve the .fpw suffix and not add the .txt suffix. and restart pc/MRP. Or you could have pc/MRP add the CODEPAGE = 1252 line automatically by updating to pc/MRP 8.00Y or higher.

**pc/MRP Versions 8.00Y – 8.02B 8.00E and higher** (versions 8.00E and higher have no password indexes) Press **Control P** when you get the error message. Select code page 1252, click on the Select Button and then click on the Retry Button. Version 8.02B and lower automatically re-indexes WP.DBF.

### pc/MRP Version 8.02C – 8.02D

Press **Control P** when you get the error message. Select code page 1252, click on the Select Button and then click on the Retry Button. Press **Control I** to force a re-index of the WP.DBF file. Update to version 8.02E or higher when you get a chance.

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.

### 17.7.28 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 it's index tags).

### pc/MRP Versions 8.02B and lower

Delete the WP.CDX file in the pc/MRP directory and restart pc/MRP. If that does not work restore the WP.DBF and WP.CDX file from a recent backup copy of the pcmrpw directory and restart pc/MRP.

If you have pc/MRP Version 8.02C (pc/MRP will no longer automatically re-index the WP.DBF file) When you get the "Incorrect Password" error message, press **Control I** to force a re-index of the WP.DBF field

### 17.7.29 You get a message "Unable to re-index the WP.dbf data table"

- Entering an incorrect password and leaving the login screen open or a phantom file lock can result in simultaneous re-indexing of the WP.DBF File.
- pc/MRP Versions 7.90 and lower (uses IDX index and auto indexes)
  - Delete the WP.IDX file in the pc/MRP directory and restart pc/MRP. If the operating system does not allow you to delete the WP.IDX file, go to the server and remove the lock on the WP.IDX file then restart pc/MRP. See error 1705 for instructions on removing phantom file locks.
- pc/MRP Versions 8.00 8.02B (uses CDX index and auto indexes)
  - Delete the WP.CDX file in the pc/MRP directory and restart pc/MRP. If the operating system does not allow you to delete the WP.CDX file, go to the server and remove the lock on the WP.CDX file then restart pc/MRP. See error 1705 for instructions on removing phantom file locks.
- pc/MRP Versions 8.00C (uses CDX index and Control I to index)
  - Delete the WP.CDX file in the pc/MRP directory and restart pc/MRP. If the operating system does not allow you to delete the WP.CDX file, go to the server and remove the lock on the WP.CDX file then restart pc/MRP. See error 1705 for instructions on removing phantom file locks. When you get the "Incorrect Password" error message, press Control I to force a re-index of the WP.DBF file.
- pc/MRP Versions 8.02D and higher (uses IDX index and Control I to index)

Delete the WP.IDX file in the pc/MRP directory and restart pc/MRP. If the operating system does not allow you to delete the WP.IDX file, go to the server and remove the lock on the WP.IDX file then restart pc/MRP. See error 1705 for instructions on removing phantom file locks. Version 8.02C and higher, pc/MRP will no longer automatically re-index the WP.DDB file. When you get the "Incorrect Password" error message, press Control I to force a re-index of the WP.DBF file.

## 17.7.30 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.

### 17.7.31 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.
- 17.7.32 Addresses in addrbook.dbf OK but not OK in Purchase, Invoice, Sales, & Receivers database files after updating to pc/MRP8.10 or higher
  - Update was run twice. Delete the files (not sub-directories) of the main pcmrpw directory. Copy and paste the files (not sub-directories) from the backup and run the update again.

### 17.7.33 You get a message: 'Startkey.prg not found .'

You have a corrupt pcmrp.exe file in memory or on the disk. First:

Re-boot the PC and try to start pc/MRP again.

Else:

Restore the pcmrp.exe file from a backup directory of the same version, or manually update to the latest revision from the pc/MRP website; must be the same major version number.

Else:

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. **NEVER WORK OFFLINE WITH** pc/MRP!

### 17.7.34 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.

### 17.7.35 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.

### 17.7.36 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 8.10 to 8.10)

# 17.7.37 You get an Unable to load the "pc/MRP Internal Printer v2.5" (or v3.0 or v3.02) or PDF printer driver installation failed when starting pc/MRP Version 8.20 or higher.

See Section 17.11.1 & 2

### 17.7.38 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.

### 17.7.39 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 have all users logout of pc/MRP
- Call Software Arts to unlock (see 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.

### 17.7.40 You get a "VFP9.dll is invalid or damaged" when starting pc/MRP in version 8.22 or higher

pc/MRP version 8.22 and higher is compiled using VFP9 and requires the GDIPLUS.dll file. Make sure that this file is in the production pcmrpw directory.

# 17.7.41 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.
- 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.

### **17.7.42 Runtime Error 62 input path EOF()**

Use Windows Explorer to delete the file "MRPBUSY.flg" from the production pcmrpw directory.

# 17.7.43 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 for pc/MRP versions 8.20U and above and versions 822S and above)

### 17.7.44 Library file fllint210.fll (or fllint250.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 fllint210.fll (or fllint250.fll) from the nightly backup.
- Or first update to pc/MRP 8.30 or higher. 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.

### 17.7.45 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 as it will have a phantom lock on one or more files under **Computer Management**, **System Tools, Shared Folders, Open Files**.

### 17.7.46 Error 53 File not Found.

pcmrp.exe may be missing. Restore from a backup with the same version and revision or call Software Arts. **17.7.47 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.

Possible solutions are:

- Use UNC mapping.
- Run the update from the server.

### 17.7.48 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.

### 17.7.49 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

# **17.8 Accounting Problems**

## 17.8.1 pc/MRP cannot close the month

• pc/MRP does not 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 that has not been used.

## 17.8.2 Entering a partial payment into accounting shows the full amount paid on Invoices and Receivers

- pc/MRP version 6.55A through 6.55N had this bug. Call Software Arts for an update to 6.55P.
- pc/MRP version 6.57A through 6.57E had this bug. Call Software Arts for an update to 6.57F.
- Edit invoices and receivers and put in the correct amount paid and mark the complete field N if the item has not been paid for in full.

### 17.8.3 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.

### 17.8.4 End of year and or end of month balances are incorrect

- In pc/MRP versions 6.55AA and lower the chart of accounts index may be broken. Re-index the chart of accounts and re-close the month.
- Possible computer glitch, re-close the month again or re-close the month on another computer.

### 17.8.5 Check reconciliation report does not make sense

• Both checks and deposits must be cleared using the clear checks program in the accounting menu. Clearing checks only will cause the uncleared balance to go negative.

### 17.8.6 Trial Balance does not balance by the amount of the profit for the month

• User has created two or more YTD retained earning accounts (QR chart of accounts records). Edit the chart of accounts and delete the extra QR accounts or change the extra QR accounts to QN accounts. There can only be one QR account in the chart of accounts data base file.

# 17.8.7 Trial Balance YTD Retained Earnings does not match YTD Returned Earnings in the Balance Sheet and YTD Retained Earnings in the Expense and Revenue Report

• The YTD retained earnings amount in the Balance Sheet and the Expense and Revenue report are correct and include the profit (revenue - expenses) for the current month. The YTD retained earnings amount in the Trial Balance Report contains the retained earnings amount from the prior month, as the profit from the current month is already included by totaling the revenue and expense amounts for the current month. In addition in the YTD Trial Balance report the YTD retained earning for the year will always be zero since the YTD Revenues and Expenses are included in this report.

# 17.8.8 Accounts Payable Report prints out date with first 2 digits of the year causing everything to appear over 90-day column.

• Delete the ACPAYTMP.DBF file. A new ACPAYTMP.DBF file will be formed from the RECEIVE.DBF with the correct date format containing the last 2 digits of the year(year 2000 compatible).

### **17.8.9** Checks take a long time to printout.

• The transaction DBF file has alpha characters in the transaction numbers. Manually edit the alpha transaction numbers with the next available transaction number.

### 17.8.10 Check number is not retained when you do an E or P type accounting transaction.

• You are selecting no when asked if you want to print checks. pc/MRP assumes by this you have decided not to print the check. There for, there is no check. Answer yes to retain the check number. If you are

handwriting checks select print or display. If you select print simply print the check on a plain sheet of paper. To correct past omissions select Modules, Accounting, Pay Bills/Print/Clear Checks, and Print Unprinted Check(s)

# 17.8.11 Paybills'\ option does not display any bills to be paid.

• The receiver index is broken, re-index the receiver file.

# 17.8.12 Entering an I, E, O, R, P, or S transaction displays an error message: "NOT FOUND IN ACTMPLT.DBF FILE."

- One or more of the primary chart of accounts number(s) found in the account actmplt.dbf does not exist in the chart of accounts DBF.
- Somebody has changed a primary chart of accounts description in the account actmplt.dbf. pc/MRP does not allow the user to change this description.

## 17.8.13 Cannot reprint checks.

• Option 13 in the Settings and Utilities menu is set to off

# 17.8.14 YTD Retained Earnings Amount in the Balance Sheet do not match the YTD Retained Earnings Total in the YTD Expense and Revenue Report.

• The YTD Retained Earnings Chart of Accounts (QR Account) was not debited and credited against an Undistributed Retained Earnings Account to zero out the QR Account at the beginning of a new year or somebody accidentally debited or credited the QR Account. If possible re-close the last month of the previous fiscal year. Then make an entry into your GL with a date of the first month and day of the beginning of the current fiscal year. In that entry debit out the YTD totals from the balance sheet and credit the prior year retained earnings account (QRC). Finally, re-close the first month in the current fiscal year and all months up to the current close.

### 17.8.15 Transaction numbers have jumped to a higher number or a weird number.

• Somebody type 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 lead you through automatically renumbering all transactions using the command "REPLACE ALL TRANNO WITH PADL(TRIMSTR(RECNO())),6,"0") You must be aware that all prior printed accounting transactions in reports and checks could contain incorrect transaction numbers.

### 17.8.16 Summary Accounts Receivable report displays "Error- Unma".

• The invoice in question amount due is equal to or less than \$0.00 and the invoice complete field does not contain "Y".

### 17.8.17 Transaction number shows up twice in GL report.

- Edit the transaction number, it has debited or credited the same chart of accounts number twice. Edit the transaction such that it only has one debit or credit entry for the difference of the amount.
- Print out your chart of accounts, you may have duplicate chart of accounts numbers. Call Software Arts if this is the case.

## 17.8.18 Incorrect Financial Statements when closing a month.

- The user edited a transaction in the prior year and re-closes that month.
- Re-close month prior to edit date.
- pc/MRP version 7.90A-G Update to 7.90H or higher

## 17.8.19 Income Statement has Revenue Total vs. Other Revenue.

• pc/MRP version 7.90A-G Update to 7.90H or higher.

# 17.8.20 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 Page 802 pc/MRP V8.50

"username' is closing a month. No accounting transactions can be created while a month is being closed." if 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**.

In pc/MRP versions 8.23A and higher, the person who initiated the close can get back in immediately and not wait the hour.

# 17.8.21 Accounting AR report shows a different amount due than the Address Book screen; the invoice report agrees with the Address Book screen.

In pc/MRP versions 8.50 and higher, there is an invoice where the "**Complete**" field does not contain a capital "**Y**" and there is an overpayment on the invoice.

# 17.8.22 If you have pc/MRP version 8.50A – 8.50S and the current AR Summary report based upon invoices does not match the Chart of Accounts report based upon the Balance for a Date/Time Period.

You are creating 'R' type accounting transactions against a credit memo or you have manually attached a credit memo to a closed invoice (both of these methods should not be used and are **NOT** supported by pc/MRP). Please refer to the Credit Memo slide show on our website in MRP101,

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

for the correct methods for handling credit memos in pc/MRP.

To correct the past errors, look for 'R' type accounting transactions that debit 'income' and credit 'checking'. Edit these transactions and debit AR instead of 'income'.

Then update to pc/MRP version 8.50T or higher and in the future, handle credit memos as described in the Credit Memo slideshow and the pc/MRP manual, Chapter 14.10.

### 17.8.23 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 Versions 8.52C and higher contain 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.

### 17.8.24 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:

- 1. Existing transactions
- 2. Existing sub-accounts
- 3. Twin div/dept accounts

If any of the above mentioned conditions exist, **please** call Software Arts, Inc. before trying to modify on your own.

# **17.9 Inventory Adjustment Problems**

### **17.9.1 pc/MRP** does not adjust the inventory correctly

• If you have versions 6.49AX, or 6.53M or lower, you receive an assembly, select "convert parts to assy" and select "both", pc/MRP does not deduct the subassemblies. Call Software Arts for update and in the mean time select "parts only" if you use this option.

### 17.9.2 On order quantity not adjusted correctly

- On order quantities are adjusted to 0 when running purchasing audit PO and adjust onorder qtys. Edit that part number and check PO Ratio. If it is set to 0, replace with 1.
- A PO was deleted without first zeroing out the quantity ordered.

### 17.9.3 Inventory Movement Report Starting Date Contains the Incorrect Quantities.

• Versions 6.80AF, 6.82AE, 6.87C, and lower did not update the last quantity WIP field if the user selected not to include WIP when taking an physical inventory. These lower versions of pc/MRP uses the last quantity WIP field to calculate the starting balances. All versions higher will transfer the correct WIP quantity to the last quantity WIP field if the user selects to not include WIP. (Which the user should not include WIP as the WIP quantity should be corrected prior to taking a physical inventory.) If the user selects to include WIP during a physical inventory, pc/MRP will transfer the WIP counts to WIP. This could cause problems as pc/MRP decrements WIP based on what was issued through the stockroom module by specific sales orders. Users must update to a newer version for this report to work properly.

### 17.9.4 Entering a receiver does not adjust the inventory's onhand quantity correctly.

- The PO ratio for that part number is set to 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).
- The PO has already received the full quantity on a prior receiver.
- pc/MRP versions 7.02 and higher will display an error message if any of the above occurs. If the wrong part number was increased in version 7.02 and higher, pc/MRP will automatically restore the wrong part number's quantity. Special code was created for Eflow creates a record of every adjustment in the Audit Trail module. To display a record of the onhand adjustment, select "Audit Trail, select the "User" window, enter user as "R" plus the receiver number and the last 3 digits of the item number (example: R123456001) and click on the "Search" button.

# 17.9.5 Stockrooms 'Receive back from manufacturing does not decrement the WIP qty nor does it increment the qty returned of one or more of the component parts.

• pc/MRP versions 8.00R, 7.90, 7.80AE. 7.70AJ, 7.60Z, 7.50AU and lower have this bug if a sub-assembly entry into a BOM is followed by a floor-stock item in the same BOM. This bug will also cause warning messages to appear stating certain parts were not decremented. These parts will be floor stock items. WIP will be backflushed correctly when the last assemblies are received back from WIP. Update to pc/MRP version 8.00S or higher.

# 17.10 pcMRP is Running Slow

## 17.10 pc/MRP is too slow.

- Try disabling your virus checker or disable it for "Running programs".
- Reduce the number of network protocols used in your network. If you do have multiple protocols and NetBeui is one of them, install it first as Windows will use it first and it is one of the faster protocols
- If your workstation is a Windows NT workstation and your primary TCP/IP, the report screens will pull up slowly.
- Reduce screen colors to 256.
- Remove any screen savers.
- If you are using Windows Terminal Server for your server and pc/MRP version 7.50 or higher, insert the following line:

### BITMAP=OFF

into the config.fpw file using notepad.

# **17.11 HTML and PDF Problems**

## 17.11.1 PDF/HTML Installation Setup

- 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 computer, you should be using pc/MRP 8.50Z or 8.54H or higher.
- Option 19 must be set to allow the installation of the PDF and HTML print drivers.
- 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.
- If pc/MRP can not install the print 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 (this should be greater than 3 megabytes).
  - 2. Create a folder named SaPdf.
  - 3. Copy this file into the new folder.
  - 4. Rename the file to PdfDrive.Zip.
  - 5. Extract the file into the new folder.
  - 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.

## 17.11.2 Printing PDF/HTML Problems

- If you are using Windows Home Basic 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..
- Option 19 must be set to allow the installation of the PDF and HTML print drivers.
- If you wish to email PDF documents directly, Microsoft Outlook must be installed on your computer as an automation server. If not, contact your network administrator. As an alternative, you can save the PDF file and attaché 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.

- The form has been modified and dedicated to a specific printer through modifying the report by selecting "File, Page Setup, Print Setup". To remove the printer settings, 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).
- 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.
- Error when using PDF printer driver with Vista 64 bit computers.

Problem running 3.02 on Vista 64 bit computer. The driver itself installs properly, so that it says the license code is correct. However, when actually used in the software, an activation error message occurs. *The software and v3.02 driver will work fine on other computers with other versions of windows*.

# This is also a workaround for Windows 7 systems when the application hangs when printing to the PDF Printers.

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. Test the PDF print option.
- 9. Re-boot the computer if necessary.

The pc/MRP Internal Printer is now assigned to the 'PDF1:' port.

**NOTE:** If you delete the pc/MRP printer driver, you may have to re-boot the computer to re-install the pc/MRP printer driver.

#### 17.11.3 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).

### 17.11.4 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 17.11.2, above, for Windows & computers.

#### 17.11.5 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). *Exclude the AMYUNI print driver from being updated by the Windows Update or Auto-update process*.
- Exclude the workstation and server virus checkers from scanning the pcmrpw directory.

### 17.11.6 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.

# 17.11.7 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.