

# *ShopWatch* for **MAS 90 / MAS 200** *Accounting*



472 Portage Lakes Dr,  
Akron, OH 44319  
[www.scanco.com](http://www.scanco.com)



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# ***ShopWatch***

## User Manual

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## Installation of ShopWatch

BEFORE you install your program disk, verify that the version level indicated on the disk is the same as the level of the M•A•S 90® / MAS 200 Work Order Processing module you are currently using (type \*PART at any menu if you are unsure). DO NOT install this modification if the levels are not the same. Our modifications are version specific, and (unless otherwise specified), written for the most current version levels of standard M•A•S 90 / MAS 200 software. Contact your M•A•S 90 / MAS 200 dealer to obtain an upgrade if needed.

Installation is identical to standard M•A•S 90 / MAS 200 disk installation:

To install program disk:

Insert the CD labeled ShopWatch in the CD drive. Log on to the hard disk drive where M•A•S 90 / MAS 200 is installed . Select Start, then select Run and type D:\SETUP.EXE Where D: is the CD drive letter. Installation will be like any normal M•A•S 90 / MAS 200 installation.

After the installation is complete, run M•A•S 90, select File and run and type "WOSCNV". This program will create the Shopwatch files.

### Upgrades

The installation disk is labeled with the Version of Work Order Processing which this modification was prepared for. If you upgrade your copy of this module, this enhancement will most likely need to be upgraded as well. Your M•A•S 90 / MAS 200 dealer can supply this upgrade for a nominal fee.

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## ShopWatch Overview

ShopWatch allows M•A•S 90® / MAS 200™ Work Order Processing users to integrate bar coding and efficient data collection into their manufacturing software system. Instead of using the standard M•A•S 90 / MAS 200 Work Order Transaction Entry programs, ShopWatch users make use of the streamlined data entry screens that have been developed to meet the needs of factory floor workers, simple, fast and accurate data entry.

ShopWatch is completely integrated on-line with all of the applicable M•A•S 90 / MAS 200 data files and provides complete lookup functions. For example, when material transactions are entered in ShopWatch, they are immediately updated in the ShopWatch files giving on-line inventory status.

Another important benefit of ShopWatch is its ability to update transactions while data entry is in progress. In the standard M•A•S 90 / MAS 200 Work Order Processing module, no updates can be performed if any users are entering transactions into a batch. ShopWatch allows users to create Work Order Transaction files while other users are entering transactions. These transactions may then be updated in the standard Work Order Processing module at any time, thus allowing close to real time status of Work Order progress and status. Thus when a customer wants to know that status of his order, an update may be run and an answer can be given promptly without going out to the shop and visually inspecting the Work Order's progress.

By itself, ShopWatch greatly streamlines the data entry process of the Work Order Processing Module. Combined with bar coding, ShopWatch provides a significant increase in data throughput, accuracy and timeliness of Shop Floor information.

## ShopWatch Options

As a standard feature inherent in all M•A•S 90® / MAS 200™ accounting software applications, the ShopWatch Setup Options allow you to "tailor-make" or "customize" your work order shop data collection system. The ShopWatch Options program presents a series of questions allowing you to select from a range of custom options. By answering these questions in the manner most appropriate for your business, you will enjoy the benefits of an efficient, informative, work order shop data collection system.

Although these options are usually established during the startup process, they may be changed at any time. To change any options, select **SHOP WATCH** from the Work Order Processing Menu Selection Bar, and proceed with the following instructions. *Note: Installation of ShopWatch overwrites the standard Work Order Processing Menu files and any custom modifications that you have made to it. Menus may be changed as desired by using the ^SUMNUA utility.*

This program is accessed by selecting **4 (SHOPWATCH OPTIONS)** from the ShopWatch Menu. As you enter the program, a screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
WORK ORDER SHOP OPTIONS	12:35 PM

  

SHOP DATA ENTRY OPTIONS:

DEFAULT WAREHOUSE CODE FOR INVENTORY TRANSACTIONS:	000
ALLOW RAW MATERIAL SUBSTITUTIONS? (Y/N)	N
ALLOW ALTERNATE UNITS OF MEASURE? (Y/N)	N
ALLOW WORK CENTER AND OP CODE ENTRY FOR LABOR? (Y/N):	N
ALLOW SIMULTANEOUS CREW/EMP LOGIN AT WORK ORDER LEVEL? (Y/N):	N
ALLOW SIMULTANEOUS CREW/EMP LOGIN AT STEP LEVEL? (Y/N):	N
ALLOW STEP COMPLETION IN LABOR TRANSACTIONS? (Y/N):	N
DEFAULT STEP COMPLETE ANSWER? (Y/N):	
ALLOW COST ENTRY IN COMPLETION TRANSACTIONS? (Y/N):	N
NUMBER OF HOURS TO ALERT FOR OPEN LABOR TRANSACTIONS:	8

  
  

IS THE ABOVE CORRECT? (Yes, No, Print, END): [Yes ]

### To modify the ShopWatch Options:

1. Answer **Y** at the **CORRECT?** prompt to accept the information displayed. You will be returned to the ShopWatch Menu. Answer **N** to make any necessary changes.
2. Enter information to the following fields:  
**DEFAULT WAREHOUSE CODE FOR INVENTORY TRANSACTIONS:** Enter a warehouse code to be used as the default warehouse code for shop transactions involving inventory. Press **ENTER** to accept the default

warehouse code of "000". This code normally identifies your main warehouse. You may use up to three characters. If you entered **N** at the **REQUIRE MULTIPLE WAREHOUSES?** option in Inventory Management Options, this field will be skipped.

**ALLOW RAW MATERIAL SUBSTITUTIONS? (Y/N)** Enter **Y** to allow substitution of items or components originally planned for a work order with another material. Enter **N** so that items or components originally planned for a work order cannot be substituted. If **N**, then **SUBST MATL?** will not be displayed during Shop Transaction Entry (material issue transactions), and corresponding material substitution information will not be accessed.

**ALLOW ALTERNATE UNITS OF MEASURE? (Y/N)** Enter **Y** to allow various equivalent units of measure as established in the U/M Conversion Table Maintenance in Inventory Management. Enter **N** if no equivalent sales and purchase units of measure will be used. If **N**, then **U/M** fields in Shop Transaction Entry will be for display purposes only and will not be accessed.

**ALLOW WORK CENTER AND OP CODE ENTRY FOR LABOR? (Y/N):** Enter **Y** to allow the user to be prompted for Work Center and Operation Code for Labor entries. Most users will answer **N** to this option since ShopWatch will automatically enter the defaults. If you have a requirement to make changes to the default Work Center and Operation Code for Labor entries, answer **Y** if the defaults are acceptable, enter **N**.

**ALLOW SIMULTANEOUS CREW/EMP LOGIN AT WORK ORDER LEVEL? (Y/N):** Enter **Y** to allow one crew and/or employee to log into a labor transaction for more than one work order at a time.. Enter **N** if one crew and/or employee can log in a labor transaction for a only one work order at any point in time.

**ALLOW SIMULTANEOUS CREW/EMP LOGIN AT STEP LEVEL? (Y/N):** Enter **Y** to allow one crew and/or employee to log in a labor transaction for more than one step number in a work order at a time. Enter **N** if one crew and/or employee can log in a labor transaction for only one step number in a work order at any point in time. If you entered **N** at the **ALLOW SIMULTANEOUS CREW/ EMP LOGIN AT WORK ORDER LEVEL?**, this field will be skipped.

**ALLOW STEP COMPLETION IN LABOR TRANSACTIONS? (Y/N):** Enter **Y** to allow entry of step status as complete or not complete during Shop Transaction Entry (labor transactions). Enter **N** if step completion is to be done outside of Shop Transaction Entry. If **N**, then **STEP COMPL?** will not be displayed on a labor transaction screen.

**DEFAULT STEP ANSWER? (Y/N):** If you answered yes to the above question, you will be prompted for the default response for Step Completion. If you would like the default to be Yes answer **Y** if No answer **N**.

**ALLOW COST ENTRY IN COMPLETION TRANSACTIONS? (Y/N):** Enter **Y** to allow entry of unit cost (for completion to special items) and total cost (for completion to scrap) during Shop Transaction Entry (completion transactions). Enter **N** if cost information will not be entered during Shop Transaction Entry.

**NUMBER OF HOURS TO ALERT FOR OPEN LABOR TRANSACTIONS:** Enter the maximum number of hours from its login time that an open labor transaction (without a logout date and time) can be left open without a warning message during Shop Transaction Journal/Update.

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, Print, END):**

3. Answer **Y** to accept the information displayed. You will be returned to the ShopWatch Menu.

Answer **N** to make any necessary changes.

Answer **P** to print the ShopWatch Options Listing. For detailed printing instructions, refer to Printing Procedures in Section E of your M•A•S 90 / MAS 200 Work Order Processing manual.

Answer **END** to exit ShopWatch Options.

## Shop Transaction Entry

The Shop Transaction Entry program is used to record transactions applied against work orders on the shop floor. The types of transactions that may be entered include releasing a work order to the shop floor; issuing materials; reporting labor; recording miscellaneous labor, material and outside processing charges; completing a work order; and closing a work order.

This program is accessed by selecting option **1 (SHOP TRANSACTION ENTRY)** from the ShopWatch Menu. As you enter the program, EMPLOYEE NO: ##### will be displayed. Enter a valid employee number or press the **F2** key to lookup employee numbers. After entry of the employee number the program will display "Checking User Authorization and Initializing Please Wait" Since ShopWatch is licensed by the user (terminal or workstation), the program is checking to determine if a user license is available at this time. If a license is available, the Shop Transaction Options window similar to the following will be displayed:

<ul style="list-style-type: none"> <li>1. RELEASE WORK ORDERS</li> <li>2. MATERIAL ISSUE</li> <li>3. LABOR</li> <li>4. MISCELLANEOUS LABOR CHARGE</li> <li>5. MISCELLANEOUS MATERIAL CHARGE</li> <li>6. OUTSIDE PROCESSING CHARGE</li> <li>7. COMPLETION</li> <li>8. CLOSE WORK ORDERS</li> <li style="background-color: #cccccc;">9. EXIT MENU</li> </ul>
<p>ENTER YOUR OPTION: [ 9       ]</p>

If a license is not available, a terminal or workstation will need to exit ShopWatch before access will be granted.

### To select a Shop Transaction Option:

1. Enter the number from **1** through **9** corresponding to the shop transaction type you want to enter information for. You may also highlight the appropriate option using the **<up-arrow>** and **<down-arrow>** keys. High-lighted options may be selected by pressing **ENTER**. The screen for the selected shop transaction option will be displayed.

After completing a shop transaction option, the Shop Transaction Options window will be redisplayed. The **ENTER YOUR OPTION** prompt will also be redisplayed.

2. If you want to perform another shop transaction option, repeat step 1.
3. When you have completed all shop transaction entries, choose option **9** or press **ESCAPE** at the **ENTER YOUR OPTION** prompt to exit Shop Transaction Entry and return to the ShopWatch Menu.

## Release Work Order

Release Work Order Transactions change the status of work orders from Firm Planned to Released. Until a work order is released to the shop floor, it is considered "Firm Planned" and cannot have transactions posted against it. A new transaction has to be created for each work order to be released.

### To enter Shop Release Work Order Transactions:

1. Select option **1 (RELEASE WORK ORDER)** from the Shop Transaction Options window. A screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE:   <b>1   RELEASE WORK ORDER</b></p> <p>TRANS DATE:   <b>05/15/95</b></p> <p>WORK ORDER:   <b>0001007</b></p>	
<p><b>IS THE ABOVE CORRECT?</b>  <b>(Yes, No, DELETE, END): [            ] </b></p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type **1** for **RELEASE WORK ORDER** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**WORK ORDER:** Enter the Work Order Number representing the work order to be released. **F2** will list all unreleased Work Order Numbers on file.

**Note:** A work order with a **Y** at the **ORDER ON HOLD?** field on its Header screen in Work Order Entry cannot be released.

Material Issue transactions may be automatically generated when work orders release transactions are updated in the M•A•S 90 / MAS 200 Work Order Processing Module depending upon the responses in Work Order Options and the information entered for the work order during Work Order Entry. If a **Y** or **A** is entered at the **AUTOMATICALLY GENERATE ISSUE TRANSACTIONS?** option in Work Order Options, material issues will be automatically generated upon the release of work orders for which the **ISSUE METHOD** field in Work Order Entry was set to **A** (for Automatic).

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

3. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **WORK ORDER** field for a new entry.

Answer **N** to make any necessary changes.

Type **DELETE** to remove the current transaction.

Answer **END** to exit Release Work Order transaction. You will be returned to the Shop Transaction Options window.

*Note: Release transactions should always be done in either ShopWatch or in the M•A•S 90 / MAS 200 Work Order Processing Module not both. Duplicate Automatic Material issues could occur if a work order is released in both places.*

## Material Issue

Material Issue transactions record issue of component Inventory Items from the warehouse to the shop for individual work orders. This transaction type can also be used to manually issue Inventory Items or unplanned items and replacement parts when a component is scrapped. However, Material Issue Transactions cannot be used for issuing non-inventory Special Items. Special Items are issued using the Miscellaneous Material Charge Transaction.

Material Issues may be used to indicate a material substitution (i.e., a different material was issued to a work order than was originally planned). Substitutions entered relieve the commitment of the original material at the same time that the substitute material is issued. Negative-quantity issue can also be entered to return items to inventory.

Material Issue transactions may be automatically generated when work order released transactions are updated depending upon the responses in Work Order Options and the information entered for the work order during Work Order Entry. If a **Y** or **A** is entered at the **AUTOMATICALLY GENERATE ISSUE TRANSACTIONS?** option in Work Order Options, material issues will be automatically generated upon the release of work orders for which the **ISSUE METHOD** field in Work Order Entry was set to **A** (for Automatic). If a **N** was entered at the **AUTOMATICALLY GENERATE ISSUE TRANSACTIONS?** option, the Material Issue Transaction Type may be used only for manually issuing component Inventory Items to the work order.

Also, if the **ISSUE METHOD** field in Work Order Entry was set to **B** (Backflush), Material issue transactions will be automatically generated when a completion transaction is entered. However, lot/serial numbers will need to be distributed in Shop Transaction Maintenance. (see **Lot/Serial distributions** under the Shop Transaction Maintenance section for more information)

### To enter Shop Material Issue Transactions:

1. Select option **2 (MATERIAL ISSUE)** from the Shop Transaction Options window. A screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE: <b>2 MATERIAL ISSUE</b></p> <p>TRANS DATE: <b>05/15/95</b></p> <p>WORK ORDER: <b>0001007</b></p> <p>STEP NO: <b>0001</b></p> <p><b>Floppy drive assembly</b></p> <p>SUBST MATL?: <b>N</b></p> <p>ITEM NO: <b>DDRIV-00035</b></p> <p><b>3 1/2" High Density Disk</b></p> <p>WAREHOUSE: <b>000</b></p> <p><b>Main Warehouse</b></p> <p>U/M: <b>EACH</b></p> <p>ISSUE QTY: <b>2.00</b>      <b>DIST</b></p>	
<p>IS THE ABOVE CORRECT?</p> <p>(Yes, No, DELETE, END): [            ]</p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type **2** for **MATERIAL ISSUE** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**WORK ORDER:** Enter the Work Order Number representing the released work order to which the component inventory items or bills will be issued. **F2** will list all released Work Order Numbers on file.

**STEP NO:** Enter the Step Number against which the material issue will be charged. The Step Description will be displayed for reference below the Step Number field. **F2** will list all Step Numbers on file for the current work order.

**SUBST MATL?:** This field will be skipped with a default of **N** displayed indicating that the material being issued is not a substitute item. If the material being issued to the work order is a substitute item for the component originally planned for the work order, enter **Y**. For additional information, refer to Material Substitution in this section. If you entered **N** at the **ALLOW RAW MATERIAL SUBSTITUTIONS?** option in ShopWatch Options, this field will not be displayed and no material substitution will be allowed.

Material Substitutions are used to issue component items other than those originally planned for use with the work order. When a material substitution is entered, the commitment of the original component is relieved while the substitute item is issued, keeping inventory records up to date.

**ITEM NO:** Enter the Inventory Item Number, or Bill Number if the M•A•S 90 / MAS 200 Bill of Materials module is installed, representing the material to be issued. The Item Description will be displayed for reference below the Item Number field. **F2** will list all Item Numbers on file. **F5** will list all phantom bills on file. Phantom bills represent assemblies which are not stocked in inventory. **F6** will list all items that have been defined for this work order and step. **F9** will allow the Inventory Item Search feature for the selection of an Inventory Item Number.

**WAREHOUSE:** This field will be skipped and the default Warehouse Code will be displayed. The Warehouse Description will be displayed for reference below the Warehouse Code field. To change, press the **F9** key twice to go back to the warehouse prompt and enter the Warehouse Code representing the issuing warehouse. **F2** will list all Warehouse Codes on file. If **N** is entered at the **REQUIRE MULTIPLE WAREHOUSES?** option in Inventory Management Options, this field will not be displayed.

**U/M:** This field will be skipped and the default Unit of Measure will be displayed. To change, press the **F9** key to go back to the U/M prompt and enter the Unit of Measure to be used for the Inventory Item entered. If you entered **N** at the **ALLOW ALTERNATE UNITS OF MEASURE?** option in ShopWatch Options, this field will not be displayed.

**ISSUE QTY:** Enter the quantity of the item to be issued. If a positive value, the quantity entered will be issued from inventory to the work order. If a negative value, the quantity of excess material entered will be returned from the work order back into inventory. **F10** will allow you to access the material substitution information, if any, and the lot and serial distribution information.

***Note:** If a positive issue quantity, the item quantity will be issued from the warehouse specified. If a negative value at the **ISSUE QTY** field, the item quantity will be issued to the warehouse specified. If a negative issue quantity, the item may be issued to a new Lot or Serial Number if returning a by-product to inventory.*

If you entered a Lot or Serial Number item at the **ITEM NUMBER** field, you will be required to complete the lot and serial distributions before exiting the material issue transaction. For additional information, refer to Lot and Serial Distributions section.

If a phantom bill is entered at the **ITEM NO** field, each of the components of the phantom bill will be exploded as individual material issue transactions.

**DIST:** This field indicates whether or not Lot or Serial Number items have been distributed. This field is for display purposes only and cannot be changed. For additional information, refer to Lot and Serial Distributions section.

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

3. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **WORK ORDER** field for a new entry.

Answer **N** to make any necessary changes.

Type **DELETE** to remove the current transaction.

Answer **END** to exit Material Issue transaction. You will be returned to the Shop Transaction Options window.

## Material Substitutions

Material Substitutions are used to issue component items other than those originally planned for use with the work order. When a material substitution is entered, the commitment of the original component is relieved while the substitute item is issued, keeping inventory records up to date.

### To enter a Shop Material Substitution:

1. Enter **Y** at the **SUBST MATL?** field on the Material Issue transaction for which you will be substituting the item.
2. Enter the **ITEM NUMBER** of the item you want to substitute for the original item.

Once you have completed entry to the fields as described under Material Issue Transactions section (including distributions of Lot or Serial numbers), the following fields will be displayed to allow entry of material substitution information:

ORIG ITEM:	DDRIV-000525 5 1/4" High Density Disk
WAREHOUSE:	000
U/M:	EACH
ORIG QTY:	2.00

3. Enter information to the following fields:

**ORIG ITEM:** Enter the Item Number representing the item originally committed to this work order. The Item Description will be displayed for reference below the Item Number field. You may enter up to 15 alphanumeric characters. Press **F2** to list all Item Numbers committed to this work order and step number.

**Note:** *The Original Item Number entered may be the same as the Substitute Material Item Number as long as the Warehouse Codes are different. This facilitates the issuance of material from one warehouse, while reducing the commitment of the same material from another warehouse.*

**WAREHOUSE:** This field will be skipped and the default Warehouse Code will be displayed. The Warehouse Description will be displayed for reference below the Warehouse Code field. To change, press the **F9** key twice to go back to the warehouse prompt and enter the Warehouse Code representing the issuing warehouse. **F2** will list all Warehouse Codes on file. If **N** is entered at the **REQUIRE MULTIPLE WAREHOUSES?** option in Inventory Management Options, this field will not be displayed.

**U/M:** This field will be skipped and the default Unit of Measure will be displayed. To change, press the **F9** key to go back to the U/M prompt and enter the Unit of Measure to be used for the Inventory Item entered. If you entered **N** at the **ALLOW ALTERNATE UNITS OF MEASURE?** option in ShopWatch Options, this field will not be displayed.

**ORIG QTY:** Enter the Original Item quantity being replaced by the Substitute Material Item quantity.

When you have completed your entries to the fields listed above, you will be advanced to the **CORRECT?** prompt.

If you entered a Lot or Serial Number item at the **ITEM NUMBER** field, you will be advanced to the lot and serial distribution fields. For additional information, refer to Lot and Serial Distributions section.

## Lot and Serial Distributions

When entering a Lot or Serial Item in a material issue transaction, you will be required to distribute the total Quantity entered for the item to one or more Lot/Serial Numbers. You may enter the Lot/Serial Numbers and quantities one at a time until the total quantity for the item has been fully distributed.

If a Lot or Serial Item Number is entered at the ITEM NO. field, the following fields will be displayed to allow entry of Lot and Serial Distributions:

SER NUMBER:	123456789012345
QUANTITY:	3.00

### To distribute Lot or Serial Items:

1. Enter information to the following fields:

**LOT/SER NUMBER:** Enter the lot or serial number to be distributed for the current item. You may enter up to 15 characters. **F2** will allow the List Entry feature. **F4** will allow the Distribution Entry feature.

**QUANTITY:** Enter the portion of the total transaction quantity to be distributed to this lot or serial number. The default quantity displayed will be the quantity to be distributed. Press **ENTER** to accept the quantity displayed, or enter 0 to delete the distribution. For serial items, enter **1** or **0**. The cursor will return to the **LOT/SER NUMBER** field, and the **QUANTITY REMAINING TO DISTRIBUTE** will reflect the quantities already entered.

Lot/Serial Numbers and distribution quantities will have to be entered until the total **ISSUE QTY** for this item is distributed. For more information on Lot and Serial Distributions, refer to the Lot and Serial Distributions in Section C of your M•A•S 90 / MAS 200 Work Order Processing manual.

If the Quantity distributed equals the total Quantity for this item, the material issue transaction will be completed. If the Quantity distributed does not equal the total Quantity for this item, the word **DIST** will be displayed to the right of the **ISSUE QTY** field.

In transactions involving Lot and Serial Items, the lot/serial distribution is verified to ensure that the distribution has been completed. If the Quantity distributed does not equal the total Quantity for this line item, the following prompt will be displayed:

**OUT OF BALANCE. PRESS <ENTER> TO CONTINUE (DELETE):**

Press **ENTER** to bring up the Lot/Serial Distribution Entry to adjust the distribution. Type **DELETE** to remove the current material issue transaction.

When you have completed your entries to the fields listed above, you will be advanced to the **CORRECT?** prompt.

## Labor

Labor transactions are used to charge against each step on a work order for individual production employees or for a labor crew. When Labor transactions are entered, you may specify the number of units being processed using a particular operation during the specified time period and you may, depending on your ShopWatch Options, indicate whether or not the operation is completed.

### To enter Shop Labor Transactions:

1. Select option **3 (LABOR)** from the Shop Transaction Options window. A screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE: <b>3 LABOR TRANSACTION</b></p> <p>TRANS DATE: <b>05/15/95</b></p> <p>CREW/EMP NO: <b>THOMIC</b> <b>Michael Thompson</b></p> <p>WORK ORDER: <b>0095015</b>                      WORK CTR: <b>CAB</b> STEP NO: <b>0000</b>                              OP CODE: <b>00001</b> <b>Assemble Chassis</b></p> <p>START DATE: <b>05/15/95</b></p> <p>START TIME: <b>07:30</b></p> <p>STOP DATE: <b>05/15/95</b></p> <p>STOP TIME: <b>11:45</b></p> <p>QTY COMPL:        <b>3.00</b></p> <p>STEP COMPL?: <b>N</b></p> <p style="text-align: center;">IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [        ]</p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type **3** for **LABOR** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**CREW/EMP NO:** Enter the Employee/Crew Number representing the production employee against whom labor charges will be issued. The Crew Description or Employee Name will be displayed below the **CREW/EMP NO** field for reference. **F2** will list all Production Employee Numbers on file. **F5** will list all Labor Crews on file.

If you did not specify departments for employees, you may enter up to seven alphanumeric characters. If you entered **Y** at the **REQUIRE DEPARTMENTS FOR EMPLOYEES?** option in Work Order Options, you may

enter up to nine characters for Employee Number, with the first two characters representing the Department Number.

**WORK ORDER:** Enter the Work Order Number representing the released work order to which employee labor will be charged. **F2** will list all released Work Order Numbers on file.

**Note:** *If you entered **N** at the **ALLOW SIMULTANEOUS CREW/EMP LOGIN AT WORK ORDER LEVEL?** option in ShopWatch Options, or if the employee/crew number and work order number are entered again, the W/O SHOP TRANSACTION SORT file will be searched for any open labor transactions (a labor transaction with login data but no logout data) for this work order. If one exists, the record will be retrieved and this labor transaction will be assumed its corresponding logout. As such, the **STEP NO**, **START DATE**, and **START TIME** fields from a previous login will be displayed, the **STOP DATE** and **STOP TIME** information will default to the system date and time as of the logout, and the cursor will be positioned in the **QTY COMPL** field.*

**STEP NO:** Enter the Step Number against which the labor transaction will be charged. Up to 4 digits may be used for a Step Number, or the format #####-X-##### (i.e., step-prefix-step) for a Sub-step Number if the M•A•S 90 / MAS 200 Bill of Materials module is installed. The Step Description will be displayed below the **STEP NO** field for reference. **F2** will list all Step and Sub-step Numbers on file for the current work order.

**Note:** *If you entered **N** at the **ALLOW SIMULTANEOUS CREW/EMP LOGIN AT STEP LEVEL?** option in ShopWatch Options, or if the employee/crew number, work order number and step are entered again, the W/O SHOP TRANSACTION SORT file will be searched for any open labor transactions for this step level. If one exists, the record will be retrieved and this labor transaction will be assumed its corresponding logout. As such, the **STEP NO**, **START DATE**, and **START TIME** fields from a previous login will be displayed, the **STOP DATE** and **STOP TIME** information will default to the system date and time as of the logout, and the cursor will be positioned in the **QTY COMPL** field.*

**WORK CTR:** You may press return and the default Work Center will be entered or you may enter another valid Work Center. **F2** will list all of the valid Work Centers. If you entered **N** at the **ALLOW WORK CENTER AND OP CODE ENTRY FOR LABOR?** option in ShopWatch Options, this field will not be displayed.

**OP CODE:** You may press return and the default Operation Code will be entered or you may enter another valid Operation Code. **F2** will list all of the valid Operation Codes. If you entered **N** at the **ALLOW WORK CENTER AND OP CODE ENTRY FOR LABOR?** option in ShopWatch Options, this field will not be displayed.

**START DATE:** The System Date will be displayed as the default Start Date. To change, enter a different date on which the operation was started using **MMDDYY** format. This field will be skipped if you are entering logout information.

**START TIME:** The System Time will be displayed as the default Start Time. To change, enter a different time on which the operation was started using either the **HH:HHH** or **HH:MM** format. You may also enter a (0) zero if you would like to enter a specific number of hours 6,8, etc. into the stop time field. This field will be skipped if you are entering logout information.

**STOP DATE:** The System Date will be displayed as the default Stop Date. To change, enter a different date on which the operation was finished using **MMDDYY** format. This field will be skipped if you are entering login information.

**STOP TIME:** The System Time will be displayed as the default Stop Time. To change, enter a different time on which the operation was finished using either the **HH.HHH** or **HH.MM** format. If you entered a (0) zero on the start time field, you may enter a number of hours such as 6 and this entry will be treated as a number of hours instead of a time value such as 6:00. This field will be skipped if you are entering login information.

**QTY COMPL:** Enter the quantity of components completed during the time period entered at the **START** and **STOP** fields. Press **ENTER** at a blank field if this information is not required.

**STEP COMPL?:** Enter **Y** to indicate step status as complete. Enter **N** if step is not completed. If you entered **N** at the **ALLOW STEP COMPLETION IN LABOR TRANSACTIONS?** option in ShopWatch Options, this field will not be displayed.

When you have completed your entries to the fields listed above, the following prompt will be displayed:  
**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

3. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **CREW/EMP NO** field for a new entry.

Answer **N** to make any necessary changes.

Type **DELETE** to remove the current transaction.

Answer **END** to exit Labor transaction. You will be returned to the Shop Transaction Options window.

## Miscellaneous Charges

Shop transaction types **4**, **5**, and **6** deal with miscellaneous charges against a work order and require the entry of similar information.

### To enter Shop Miscellaneous Charge Transactions:

1. Select option **4**, **5**, or **6** from the Shop Transaction Options window. Corresponding screens will be displayed.

Shop transaction type **4 (MISCELLANEOUS LABOR CHARGE)** is used for entering labor charges against a work order without recording the specific employees who performed the work, the number of hours, the hourly rate, or the number of finished products produced.

Shop transaction type **5 (MISCELLANEOUS MATERIAL CHARGE)** is used for entering charges for shop supplies and Special Items charged against a work order.

Shop transaction type **6 (OUTSIDE PROCESSING CHARGE)** is used for entering charges against a work order for products and/or services provided by an outside vendor.

XYZ MANUFACTURING COMPANY (XYZ) SHOP TRANSACTION ENTRY	05/31/95 12:35 PM
TRANS TYPE: 4 MISC LABOR CHARGE	
TRANS DATE: 05/15/95	
WORK ORDER: 0001007	
STEP NO: 0001 Floppy Drive Assembly	
TOTAL COST: 175.30	
LABOR DESCRIPTION: Record payroll paid cash	
IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [ ]	

XYZ MANUFACTURING COMPANY (XYZ) SHOP TRANSACTION ENTRY	05/31/95 12:35 PM
TRANS TYPE: 5 MISC MATERIAL CHARGE	
TRANS DATE: 05/15/95	
WORK ORDER: 0001007	
STEP NO: 0001 Floppy Drive Assembly	
TOTAL COST: 15.98	
MATERIAL DESCRIPTION: Glare screen for monitor	
IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [ ]	

XYZ MANUFACTURING COMPANY (XYZ) SHOP TRANSACTION ENTRY	05/31/95 12:35 PM
<p>TRANS TYPE: 6 OUTSIDE PROCESSING</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>STEP NO: 0001 Floppy Drive Assembly</p> <p>TOTAL COST: 275.00</p> <p>PRODUCT/SERVICE PROVIDED: Monitor sent out for repair</p> <p style="text-align: center;">IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [       ]</p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type **4** for **MISCELLANEOUS LABOR**, **5** for **MISCELLANEOUS MATERIAL**, or **6** for **OUTSIDE PROCESSING** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**WORK ORDER:** Enter the Work Order Number representing the released work order against which the miscellaneous labor, material, or outside processing charges will be charged. **F2** will list all released Work Order Numbers on file.

**STEP NO:** Enter the Step Number against which the labor transaction will be charged. You may use up to four digits for a Step Number, or the format **####-X-####** (i.e., step-prefix-step) for a Sub-step Number if the M•A•S 90 / MAS 200 Bill of Materials module is installed. The Step Description will be displayed below the Step Number field for reference. **F2** will list all Step and Sub-step Numbers on file for the current work order.

**COST:** Enter the Cost of the miscellaneous charge to be charged to the work order. The Cost may be entered as a positive or negative number. A positive number will post the Cost against the work order. A negative number will remove the Cost from the work order.

**MATERIAL/LABOR DESCRIPTION:** or **PRODUCT/SERVICE PROVIDED:** Enter the description of the miscellaneous charge to be applied to the work order. You may use up to thirty characters.

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

3. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **WORK ORDER** field for a new entry.

Answer **N** to make any necessary changes.

Type **DELETE** to remove the current transaction.

Answer **END** to exit Labor transaction. You will be returned to the Shop Transaction Options window.

## Completion

Completion transactions allow you to complete all or part of a work order. You may complete work orders to inventory, to a sales order, to another work order, or to scrap. *Note: If completions are performed for less than the planned quantity and they do not have an accompanying labor transaction, costs will be calculated incorrectly. This is true both in ShopWatch and in Work Order Processing.*

If the material issue method for the Work Order is Backflush, ShopWatch will automatically create the material issue transactions for the Work Order. Transactions for Lot/Serial items will be created but will require distribution of the lot or serial numbers before running the *Create Work Order Transactions* program in ShopWatch. Refer to the section on Shop Transaction Maintenance for further information.

**Helpful Hint: Run the On Demand Missing Cost Report from the Work Order Processing Reports Menu BEFORE updating completion transactions. The Missing Cost Report printing program is called AFTER completion transactions are updated. If missing costs are discovered after the update of completions it is too late since ALL costs have already been charged to the completed items.**

### To enter Shop Completion Transactions:

1. Select option **7 (COMPLETION)** from the Shop Transaction Options window. A screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE: 7 COMPLETION</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>COMPLTE TO: INVENTORY</p> <p>-----</p> <p><i>This bottom part of the screen will depend upon what the entry is in the COMPLTE TO field.</i></p> <p>-----</p> <p>IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [       ]</p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type 7 for **COMPLETION** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**WORK ORDER:** Enter the Work Order Number representing the work order to be completed. **F2** will list all released Work Order Numbers on file.

**COMPLETE TO:** Enter the option from the following Completion options to indicate the method to be used to complete items for the current work order:

- I** Complete to Inventory
- S** Complete to a Sales Order
- W** Complete to another Work Order
- X** Complete to Scrap

Completing to Inventory will display a screen similar to the following:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE: 7 COMPLETION</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>COMPLTE TO: INVENTORY</p> <p>COMPL ITEM NO: DDRIV-00035 3 1/2" High Density</p> <p>QUANTITY: 5.00</p> <p>U/M: EACH</p> <p>WAREHOUSE: 000 MAIN WAREHOUSE</p> <p style="text-align: center;">IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [            ]</p>	

You may make entries at the following fields:

**COMPL ITEM NO:** Press **ENTER** to accept the Inventory Item Number displayed, or enter the Inventory or Special Item Number representing the item being completed. Special Items are entered by preceding up to 14 alphanumeric characters with an asterisk (\*). **F2** will list all Inventory Item Numbers on file. The Item Description is displayed below the Item Number for reference. *Note: If a Special Item (\*) is entered, the Item Description will have to be entered.*

**QUANTITY:** Enter the Quantity of the item to be completed.

**Note:** The placement of the decimal point for Quantity entries for Inventory Items is based upon the entry format established in Inventory Management Options.

**U/M:** The default Unit of Measure will be displayed. To change, enter a different Unit of Measure. If you entered **N** at the **ALLOW ALTERNATE UNITS OF MEASURE?** option in ShopWatch Options, this field will not be displayed.

**WAREHOUSE:** The default Warehouse Code and Description will be displayed. To accept, press **ENTER**. To change, enter a different Warehouse Code representing the warehouse which will receive the finished items. The Warehouse Description will be displayed to the right of the Warehouse Code for reference. **F2** will list all Warehouse Codes on file. If you entered **N** is entered at the **REQUIRE MULTIPLE WAREHOUSES?** option in Inventory Management Options, this field will not be displayed.

**LOT/SER NUMBER:** Enter the Lot or Serial Number to be assigned to this item. If you are completing a quantity of more than one for a serial item, the value displayed as the default or what you enter, will be the *beginning* number. The serial numbers will be incremented from that beginning starting number. If you are not using ranges of serial numbers and completing one at a time, ShopWatch will track previously entered serial numbers (if the quantity completed was equal to one) and provide a warning message if you attempt to complete the same serial number more than once. If the item entered in the **COMPL ITEM NO** field is not a Lot or Serial item, this field will not be displayed.

If a Special Item (\*) is entered, the **WAREHOUSE** and **LOT/SER NUMBER** fields will not be displayed. In the place of the **WAREHOUSE** field, **PURCHASES ACCT** will be displayed to allow entry of Special Purchases Account Number to identify the account to be debited with the completed items. The Purchases Account Number entered in Work Order Options will be the displayed default. **F2** will list all General Ledger Account Numbers on file.

If the Item Number entered at the **COMPL ITEM NO** field does not match the Item Number at the **ORIG ITEM NO** field, the following fields will be displayed below the **LOT/SER NUMBER** field to allow entry of original item information:

PARENT QTY:	5.00
PARENT U/M:	EACH
UNIT COST:	15.00

**PARENT QTY:** Enter the Quantity of planned Parent items that this Completion Transaction represents. Enter **0** (zero) to indicate that this item is a by-product item. The Parent Quantity indicates the number of items that are represented by the current quantity of items being completed (i.e., entered at the **QUANTITY** field).

**U/M:** The default Unit of Measure will be displayed. To change, enter a different Unit of Measure. If the default Unit of Measure is changed, the Parent Quantity entered will be automatically factored based on the Unit of Measure Conversion Table. If you entered **N** at the **ALLOW ALTERNATE UNITS OF MEASURE?** option in ShopWatch Options, this field will not be displayed. If **0** (zero) is entered at the **PARENT QTY** field, this field will default to the Unit of Measure entered for the quantity, and will be skipped.

**UNIT COST:** Enter the Unit Cost of the item being completed. The Unit Cost should reflect the cost based on the Quantity unit of measure of the items being completed. If a non-zero Parent Quantity is entered, this field will be skipped. If you entered **N** at the **ALLOW COST ENTRY IN COMPLETION TRANSACTIONS?** option in ShopWatch Options, this field will not be displayed.

If **0** (zero) is entered at the **PARENT QTY** field, it is assumed that the product being completed is a by-product of the normal production process. The Unit Cost entered will be used as the value of the item being completed.

Completing to Scrap will display a screen similar to the following:

XYZ MANUFACTURING COMPANY (XYZ) SHOP TRANSACTION ENTRY	05/31/95 12:35 PM
<p>TRANS TYPE: 7 COMPLETION</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>COMPLTE TO: SCRAP</p> <p>FIRST STEP: 0000</p> <p>LAST STEP: 9999</p> <p>QUANTITY: 5.00</p> <p>U/M: EACH</p> <p>TOTAL COST: 15.00</p> <p style="text-align: center;">IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [            ]</p>	

You may make entries to the following fields:

**FIRST STEP:** Press **ENTER** to accept the default of **0000**, or enter the Step Number representing the First Step completed for this work order for the parts being scrapped. **F2** will list all Step Numbers on file for this work order.

**LAST STEP:** Press **ENTER** to accept the default of **9999**, or enter the Step Number representing the Last Step completed for this work order for the parts being scrapped. **F2** will list all Step Numbers on file for this work order. Step **9999** should be accepted if the parts were routed all the way through the work order before being scrapped.

**QUANTITY:** Enter the Quantity completed to scrap for this transaction. If preference is to express scrap in terms of cost instead of Quantity, enter **0** (zero) and enter the total cost of the scrapped units at the **UNIT COST** field.

If a Quantity is entered but no **UNIT COST**, each step on the work order will be examined beginning with the step specified at the **FIRST STEP** field up to the step specified at the **LAST STEP** field to determine which costs have been posted against this work order. This cost will be calculated during the Work Order Transaction Journal Update.

**U/M:** Enter the Unit of Measure for the Quantity entered. If you entered **N** at the **ALLOW ALTERNATE UNITS OF MEASURE?** option in ShopWatch Options, this field will not be displayed.

**TOTAL COST:** Enter the Unit Cost of the units being scrapped. If the cost of the units being scrapped is not known, press **ENTER** to accept **0** (zero). The Unit Cost will be automatically calculated based on the % of

units being completed to scrap compared to the total remaining quantity. If you entered **N** at the **ALLOW COST ENTRY IN COMPLETION TRANSACTIONS?** option in ShopWatch Options, this field will not be displayed.

If **0** is entered at the **QUANTITY** field, a Total Cost must be entered. Since a Quantity was not entered, the Cost represents a "lot" cost, rather than a Unit Cost. This relieves the cost of the scrap from Work In Process without changing the quantity expected from the work order.

Completing to a Sales Order will display a screen similar to the following:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE: 7 COMPLETION</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>COMPLTE TO: SALES ORDER</p> <p>SALES ORDER: 0010010</p> <p>CUST: ABC Distribution Company</p> <p>COMPL ITEM NO: DDRIV-00035</p> <p>3 1/2" High Density</p> <p>QUANTITY: 5.00</p> <p>U/M: EACH</p> <p>WAREHOUSE: 000 MAIN WAREHOUSE</p> <p>PARENT QTY: 5.00</p> <p>PARENT U/M: EACH</p> <p>UNIT COST: 15.00</p> <p style="text-align: center;">IS THE ABOVE CORRECT?</p> <p style="text-align: center;">(Yes, No, DELETE, END): [            ]</p>	

You may enter information to the following fields:

**SALES ORDER:** Enter the open Sales Order Number to which the work order will be completed. **F2** will list all open Sales Order Numbers on file. When the Sales Order Number is entered, the customer name will be displayed. The Sales Order Number is for reference only, and the actual invoice for the sales order completed to must be entered in the Sales Order Invoice Data Entry program.

Upon entry of the appropriate Sales Order Number, a list of the Item Numbers assigned to the Sales Order entered may be displayed by pressing the **F2** key. Use the **<up-arrow>** and **<down-arrow>** keys to highlight the desired Item Number and press **ENTER**, or enter the number corresponding to the desired Item Number. To change information pertaining to the Item Number displayed, refer to the Completing to Inventory section.

**Note:** If you entered **N** at the **INTEGRATE STATE OF THE ART SALES ORDER?** option in Work Order Options, the **S** option will not be available.

Completing to a Work Order will display a screen similar to the following:

XYZ MANUFACTURING COMPANY (XYZ) SHOP TRANSACTION ENTRY	05/31/95 12:35 PM
<p>TRANS TYPE: 7 COMPLETION</p> <p>TRANS DATE: 05/15/95</p> <p>WORK ORDER: 0001007</p> <p>COMPLETE TO: WORK ORDER</p> <p>WORK ORDER: 0010011</p> <p>STEP NO: 0001 Floppy Drive Assembly</p> <p>COMPL ITEM NO: DDRIV-00035</p> <p>3 1/2" High Density</p> <p>QUANTITY: 5.00</p> <p>U/M: EACH</p> <p>WAREHOUSE: 000 MAIN WAREHOUSE</p> <p style="text-align: center;">IS THE ABOVE CORRECT? (Yes, No, DELETE, END): [       ]</p>	

You may enter information to the following fields:

**WORK ORDER:** Enter the released Work Order Number to which the work order will be completed. **F2** will list all released Work Order Numbers on file. The Work Order Number is for reference only, and material issues for the work order completed to must be entered manually.

Upon entry of the appropriate Work Order Number, a list of the Step Numbers assigned to the Work Order entered can be displayed by pressing the F2 key. Use the **<up-arrow>** and **<down-arrow>** keys to highlight the desired Step Number and press **ENTER**, or enter the number corresponding to the desired Step Number. To change information pertaining to the Item Number displayed, refer to the Completing to Inventory section.

**Note:** Sub-step numbers will not be displayed.

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

- Answer **Y** to accept the information displayed. The cursor will be returned to a blank **WORK ORDER** field for a new entry.  
Answer **N** to make any necessary changes.  
Type **DELETE** to remove the current transaction.

Answer **END** to exit Completion transaction. You will be returned to the Shop Transaction Options window.

*Note: Completion transactions should always be done in either ShopWatch or in the M•A•S 90 / MAS 200 Work Order Processing Module not both. Duplicate Backflush Material issues will occur when the completion is updated in the M•A•S 90 / MAS 200 Work Order Processing Module if a work order is completed in both places.*

## Close Work Order

Close Work Order Transactions allow you to close work orders from all additional transaction postings. A new transaction has to be created for each work order to be closed.

### To enter Shop Close Work Order Transactions:

1. Select option **8 (CLOSE WORK ORDER)** from the Shop Transaction Options window. A screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP TRANSACTION ENTRY	12:35 PM
<p>TRANS TYPE:   <b>8   CLOSE WORK ORDER</b></p> <p>TRANS DATE:   <b>05/15/95</b></p> <p>WORK ORDER:   <b>0001007</b></p>	
<p>IS THE ABOVE CORRECT?          (Yes, No, DELETE, END): [            ] ]</p>	

2. Enter information to the following fields:

**TRANS TYPE:** The Transaction Type **8** for **CLOSE WORK ORDER** will be displayed. This field is for display purposes only and cannot be changed. The cursor will be advanced to the Work Order field.

**TRANS DATE:** The default date displayed will be the current System Date. This field is for display purposes and can be accessed by pressing **F9** from the subsequent field. To change, enter a different date using the **MMDDYY** format.

**WORK ORDER:** Enter the Work Order Number representing the work order to be closed. **F2** will list all released Work Order Numbers on file.

When you have completed your entries to the fields listed above, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, DELETE, END):**

3. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **WORK ORDER** field for a new entry.

Answer **N** to make any necessary changes.

Type **DELETE** to remove the current transaction.

Answer **END** to exit Release Work Order transaction. You will be returned to the Shop Transaction Options window.

## Shop Transaction Maintenance

The Shop Transaction Maintenance program is used to edit transactions that have been entered through the Shop Transaction Entry before creating Work Order Transactions in the M•A•S 90 / MAS 200 Work Order Processing Module and to distribute lot/serial numbers for Auto Generated Material Issue Transactions.

This program is accessed by selecting option **3 (SHOP TRANSACTION MAINTENANCE)** from the ShopWatch Menu. As you enter the program, a screen similar to the following will be displayed:

XYZ MANUFACTURING COMPANY (XYZ)		05/31/95
SHOP TRANSACTION MAINTENANCE		12:35 PM
TRANSACTION NO:	TYPE:	TRAN DATE:

### To maintain Shop Transactions:

1. Enter information to the following fields:

**TRANSACTION NO:** Enter the Transaction Number representing the shop transaction you want to maintain. You may use up to seven alphanumeric characters. **F2** will list all Shop Transaction Numbers previously entered through Shop transaction Entry. **F10** will bring up the next sequential Transaction Number on file.

**TYPE:** This field is for display purposes only and cannot be changed. The Transaction Type and the Transaction Description from the following list will be displayed:

- 1 Release Work Order Transaction:** This transaction type is used to change the status of a work order from Firm Planned to Released.
- 2 Material Issue Transaction:** This transaction type is used to record the issue of component Inventory Items from the warehouse to the shop floor for individual work orders.
- 3 Labor Transaction:** This transaction type is used to record the labor hours expended on a work order.
- 4 Miscellaneous Labor Charge Transaction:** This transaction is used to post labor charges that are not related to specific employees to work orders.

- 5 **Miscellaneous Material Charge Transaction:** This transaction type is used to charge non-inventory material costs to a work order.
- 6 **Outside Processing Charge Transaction:** This transaction is used to post charges for work orders performed by outside vendors.
- 7 **Completion Transaction:** This transaction is used to record the completion of all or part of the finished product being produced by a work order.
- 8 **Close Work Order Transaction:** This transaction is used to close a work order.

**TRAN DATE:** Press **ENTER** to accept the Transaction Date displayed, or enter a different Transaction Date using the **MMDDYY** format.

An existing shop transaction and its corresponding information will be displayed on transaction maintenance screens that are similar to the transaction data entry screens. Information for each shop transaction type will be displayed on corresponding transaction maintenance screen.

With the exception of the **TRANSACTION NO** and **TYPE** fields, which are for reference and display purposes only, all the fields displayed on the different shop transaction maintenance screens can be changed or modified. For additional information, refer to the Shop Transaction Entry section.

When shop floor information pertaining to the Transaction Number you have entered is displayed, the following prompt will be displayed:

**IS THE ABOVE CORRECT? (Yes, No, field #, DELETE):**

2. Answer **Y** to accept the information displayed. The cursor will be returned to a blank **TRANSACTION NO** field for a new entry. Press **ENTER** at a blank Transaction Number, or press **ESCAPE** to exit Shop Transaction Maintenance and return to the ShopWatch Menu.

Answer **N** to make any necessary changes.

If you want to access a specific field to make a change, enter the number corresponding to the particular field number displayed on your screen.

Type **DELETE** to remove the current transaction from the file. *Note: Deletion of a Completion Transaction for a Work Order with a backflush material issue method will also delete related material issue transactions.*

### **Lot and Serial Distributions**

When entering a Lot or Serial Item in a Auto Generated Material Issue Transaction, you will be required to distribute the total Quantity entered for the item to one or more Lot/Serial Numbers. You may enter the Lot/Serial Numbers and quantities one at a time until the total quantity for the item has been fully distributed.

If a Lot or Serial Item Number is entered at the ITEM NO. field, the following fields will be displayed to allow entry of Lot and Serial Distributions:

SER NUMBER:	123456789012345
QUANTITY:	3.00

**To distribute Lot or Serial Items:**

1. Enter information to the following fields:

**LOT/SER NUMBER:** Enter the lot or serial number to be distributed for the current item. You may enter up to 15 characters. **F2** will allow the List Entry feature. **F4** will allow the Distribution Entry feature.

*Note: When using the F4 feature in Shop Transaction Maintenance, the quantity available is equal to the net of all transactions in the batch for that item **excluding** the transaction you are editing. For example, if the quantity on hand was 20 and two transactions occurred one for 5 and another for 10, when looking at the 5 transaction, the quantity available will be 10 (20 minus 10). When looking at the 10 transaction it will be 15 (20 minus 5)*

**QUANTITY:** Enter the portion of the total transaction quantity to be distributed to this lot or serial number. The default quantity displayed will be the quantity to be distributed. Press **ENTER** to accept the quantity displayed, or enter 0 to delete the distribution. For serial items, enter **1** or **0**. The cursor will return to the **LOT/SER NUMBER** field, and the **QUANTITY REMAINING TO DISTRIBUTE** will reflect the quantities already entered.

Lot/Serial Numbers and distribution quantities will have to be entered until the total **ISSUE QTY** for this item is distributed. For more information on Lot and Serial Distributions, refer to the Lot and Serial Distributions in Section C of your M•A•S 90 / MAS 200 Work Order Processing manual.

If the Quantity distributed equals the total Quantity for this item, the material issue transaction will be completed. If the Quantity distributed does not equal the total Quantity for this item, the word **DIST** will be displayed to the right of the **ISSUE QTY** field.

In transactions involving Lot and Serial Items, the lot/serial distribution is verified to ensure that the distribution has been completed. If the Quantity distributed does not equal the total Quantity for this line item, the following prompt will be displayed:

**OUT OF BALANCE. PRESS <ENTER> TO CONTINUE (DELETE):**

Press **ENTER** to bring up the Lot/Serial Distribution Entry to adjust the distribution. Type **DELETE** to remove the current material issue transaction.

When you have completed your entries to the fields listed above, you will be advanced to the **CORRECT?** prompt.

## SHOP TRANSACTION REPORT(S)

These reports are available to print transactions that are contained in the ShopWatch files that have not yet been posted to the Work Order Processing module. Please note that any labor transactions printed will be subject to change due to the "real time" nature of ShopWatch. Only the Labor Registers that are generated after Creation of Work Order Transactions will show an accurate picture of what was actually transferred to the Work Order module.

To access these reports, choose the **Shop Transaction Report(s)** option from the main ShopWatch menu. A screen similar to the one below will appear.

XYZ MANUFACTURING COMPANY (XYZ)	05/31/95
SHOP WATCH TRANSACTION REPORT	12:35 PM
<p>STARTING WORK ORDER NUMBER: 0095015          ENDING WORK ORDER NUMBER: 0095015</p> <p>TRANSACTION TYPE(S): [ 3 ]</p> <p>STARTING TRANSACTION DATE: 11/17/95          ENDING TRANSACTION DATE: 11/17/95</p> <p>STARTING TRANSACTION TIME: 7:00          ENDING TRANSACTION TIME: 13:00</p> <p>OPEN/CLOSED/ALL LABOR: C</p> <p>ENTER ANY COMBINATION OF (1=Rel, 2=Mat'l, 3=Labor, 4=Misc Labor          5=Misc Mat'l, 6=Out Proc, 7=Comp, 8=Close, &lt;SPACE&gt; for all)</p> <p>IS THE ABOVE CORRECT? (Yes, No, Printers, END): [Yes ]</p>	

**STARTING WORK ORDER NUMBER:** Enter the Work Order Number representing the beginning work order to be selected. **F2** will list all released Work Order Numbers on file.

**ENDING WORK ORDER NUMBER:** Enter the Work Order Number representing the ending work order to be selected. **F2** will list all released Work Order Numbers on file.

**TRANSACTION TYPE(S):** Enter any combination of (1=Rel, 2=Mat'l, 3=Labor, 4=Misc Labor, 5 =Misc Mat'l, 6=Out Proc, 7=Comp, 8=Close, <SPACE> for all). Do not put any punctuation between each type.

**STARTING TRANSACTION DATE:** Enter the beginning date of the transactions to select. Press **ENTER** to accept the first date in the files, or enter a different Transaction Date using the **MMDDYY** format.

**ENDING TRANSACTION DATE:** Enter the ending date of the transactions to select. Press **ENTER** to accept the last date in the files, or enter a different Transaction Date using the **MMDDYY** format.

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**STARTING TRANSACTION TIME:** Enter the beginning time for labor transactions to select. Press **ENTER** to accept the first time in the files, or enter a different Transaction time using the **HH:MM** Military Time format.

**ENDING TRANSACTION TIME:** Enter the ending time for labor transactions to select. Press **ENTER** to accept the last time in the files, or enter a different Transaction time using the **HH:MM** Military Time format.

**OPEN/CLOSED/ALL LABOR:** Enter **'O'**pen, **'C'**losed OR **<SPACE>** for all) Open labor transactions are ones where an employee is clocked in but has not clocked out. Closed labor transactions are ones where the employee has both clocked in and clocked out.

**IS THE ABOVE CORRECT? (Yes, No, Printers, END):**

1. Answer **Y** to print the Shop Transaction Reports to the default printer. The name of the default printer will be highlighted at the top of your screen.

Answer **N** to change the defaults or the selections made.

Answer **P** to select an optional printer or output device.

Type **END** to return to the ShopWatch Menu without printing the shop transaction reports.

---

## Create Work Order Transactions

The Create Work Order Transactions program is used to print registers that provide an audit trail of the transactions recorded during Shop Transaction Entry and create M•A•S 90 / MAS 200 Work Order Processing Transaction Entry files.

To access this option, choose the **Create Work Order Transactions** option from the main ShopWatch menu. A screen similar to the one below will appear.

THE GENERAL LEDGER PERIOD ENDING DATE IS:	<b>MM/DD/YY</b>
WORK ORDER SYSTEM DATE:	<b>MM/DD/YY</b>
<b>IS THE ABOVE CORRECT? (Yes, No, Printers, END):</b>	

### To print the Shop Transaction Registers and create the Work Order Files:

1. Answer **Y** to print the Shop registers to the default printer. The name of the default printer will be highlighted at the top of your screen.

Answer **N** to change the current System Date displayed. This date will be used to post the shop register entries to the Work Order Transaction Entry files.

Answer **P** to select an optional printer or output device.

Type **END** to return to the ShopWatch Menu without printing the shop registers.

Next you will see a screen similar to the one below:

XYZ MANUFACTURING COMPANY (XYZ) MAS90 W/O TRANSACTION FILES	05/31/95 12:35 PM
STARTING WORK ORDER NUMBER:	0095015
ENDING WORK ORDER NUMBER:	0095018
TRANSACTION TYPE(S):	23.....
STARTING TRANSACTION DATE:	11/17/95
ENDING TRANSACTION DATE:	11/17/95
STARTING TRANSACTION TIME:	7:00
ENDING TRANSACTION TIME:	15:00
PLEASE NOTE: BACK FLUSH SHOP WATCH TRANSACTIONS WILL NOT BE POSTED UNLESS COMPLETIONS AND MATERIAL ISSUES ARE BOTH SELECTED.	
ENTER ANY COMBINATION OF (1=Rel,2=Mat'l,3=Labor,4=Misc Labor 5=Misc Mat'l,6=Out Proc,7=Comp,8=Close,<SPACE> for all)	
IS THE ABOVE CORRECT? (Yes, No, Printers, END): [Yes ]	

**STARTING WORK ORDER NUMBER:** Enter the Work Order Number representing the beginning work order to be selected. **F2** will list all released Work Order Numbers on file.

**ENDING WORK ORDER NUMBER:** Enter the Work Order Number representing the ending work order to be selected. **F2** will list all released Work Order Numbers on file.

**TRANSACTION TYPE(S):** Enter any combination of (1=Rel, 2=Mat'l, 3=Labor, 4=Misc Labor, 5 =Misc Mat'l, 6=Out Proc, 7=Comp, 8=Close, <SPACE> for all). Do not put any punctuation between each type.

**NOTE:** *If a Work Order is set up to back flush material issues during completion transactions, you must select both 2 (Material) and 7 (Completion) for creation. If you do not do this, neither type of transaction will be created until you select both types of transactions (2 and 7)*

**STARTING TRANSACTION DATE:** Enter the beginning date of the transactions to select. Press **ENTER** to accept the first date in the files, or enter a different Transaction Date using the **MMDDYY** format.

**ENDING TRANSACTION DATE:** Enter the ending date of the transactions to select. Press **ENTER** to accept the last date in the files, or enter a different Transaction Date using the **MMDDYY** format.

**STARTING TRANSACTION TIME:** Enter the beginning time for labor transactions to select. Press **ENTER** to accept the first time in the files, or enter a different Transaction time using the **HH:MM** Military Time format.

**ENDING TRANSACTION TIME:** Enter the ending time for labor transactions to select. Press **ENTER** to accept the last time in the files, or enter a different Transaction time using the **HH:MM** Military Time format.

**OPEN/CLOSED/ALL LABOR:** Enter 'O'pen,' C'losed OR <SPACE> for all) Open labor transaction are ones where an employee is clocked in but has not clocked out. Closed labor transactions are ones where the employee has both clocked in and clocked out.

**IS THE ABOVE CORRECT? (Yes, No, Printers, END):**

1. Answer **Y** to print the Shop Transaction Registers to the default printer and create the selected Work Order Processing Transaction files. The name of the default printer will be highlighted at the top of your screen.

Answer **N** to change the defaults or the selections made.

Answer **P** to select an optional printer or output device.

Type **END** to return to the ShopWatch Menu without printing the shop transaction registers.

**UPDATE IN PROGRESS:**

During the transaction creation process, the Shop Transaction Collection, the Shop Transaction Tier Distribution, and the Shop Transaction Sort files will be sequentially written to the Work Order Transaction Entry files, with the first transaction number being the next automatic work order transaction number from the Work Order Options. The shop transaction files will be cleared for the next batch of shop transactions.

In the event that the creation process is interrupted by a power failure or other occurrence, the creation program can be restarted. If you attempt to view the transactions in transaction maintenance, they may not be visible. By running the hidden option ^WOSRRA from the ShopWatch menu, you can print all of the transactions that are stored in the temporary files. This should be done prior to attempting any restart. When, you run the Create Work Order Transaction program again, the restart procedure will activate and attempt to create the proper transactions.

If this procedure is unsuccessful the temporary file reports may be used to reenter the transactions. **Before** entry of any new transactions, go out to the operating system and change to the MAS90\WO(company code) directory and delete wotemp\*.soa. Next, attempt to print out and **update** any transactions that are in the MAS 90 Work Order Module. Finally, your system administrator should reinitialize the following files and rebuild the WO sort files:

W/O TRANS ENTRY HEADER FILE  
W/O TRANS ENTRY DETAIL  
W/O TRANS ENTRY ADDITIONAL HEADER  
W/O TRANS ENTRY TIER DISTRIBUTION  
W/O BATCH FILE  
W/O SHOP TRANSACTION COLLECTION FILE  
W/O SHOP TRANSACTION TIER DISTRIBUTION  
W/O SHOP TRANSACTION SORT

Once the ShopWatch updates have occurred, work order transactions can be viewed and edited in the Work Order Processing Main Menu under Work Order Transaction Entry.

*Note: If original default information in certain transactions such as completions or costs is overridden in ShopWatch, the Work Order Transaction Entry program may in some instances put the data back to the original default information. Transactions should be edited in Shop Transaction Maintenance if possible before creating Work Order Transactions.*

If no further editing is necessary, transactions can be updated immediately by selecting the Work Order Transaction Journal option.

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## SHOP TRANSACTION REGISTERS

The shop registers detailed below itemize all entries made using the Shop Transaction Entry program.

**Shop Release Register:** This register lists the work orders released for production during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Material Issues Register:** This register lists the Material Issue transactions entered during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Labor Register:** This register lists the Labor transactions entered during Shop Transaction Entry. The register provides a recap of hours worked and quantity completed for labor transactions recorded for each employee/crew. This register is sorted by Employee/Crew number.

**Shop Miscellaneous Labor Register:** This register lists the Miscellaneous Labor transactions entered during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Miscellaneous Material Register:** This register lists the Miscellaneous Material transactions entered during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Outside Processing Register:** This register lists the Outside Processing transactions entered during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Completion Register:** This register lists the work order Completion transactions entered during Shop Transaction Entry. This register is sorted by shop transaction number.

**Shop Close Register:** This register lists the work orders that have been designated as closed during Shop Transaction Entry. This register is sorted by shop transaction number.

# SAMPLE REPORTS

## Shop Release Register

This register lists the work orders released for production during Shop Transaction Entry. This register is sorted by shop transaction number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY				PAGE: 1	
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL				TIME: 05:30 PM	
RELEASE REGISTER							
TRANS NUMBER	WORK ORDER	ITEM/BILL NUMBER	ITEM DESCRIPTION	MAKE FOR	CHEDULED RELEASE		
0000721	0001009	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	05/25/95		
0000725	0001007	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	05/30/95		
0000732	0001012	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	06/02/95		

## Shop Material Issues Register

This register lists the Material Issue transactions entered during Shop Transaction Entry. This register is sorted by work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY						PAGE: 1	
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL						TIME: 05:30 PM	
MATERIAL ISSUES REGISTER									
TRANS NUMBER	WORK ORDER	STEP NUMBER	ITEM NUMBER	ITEM DESCRIPTION CODE	WHSE	U/M	SUBST MATL?	ISSUE QUANTITY	
0000724	0001007	0001	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	000	EACH	N	2.00	
0000729	0001011	0005	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	000	EACH	N	1.00	
				SERIAL NUMBER: XXXXXXXXXXXXXXX					
0000731	0001005	0001	XXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	001	EACH	N	5.00	

### Shop Labor Register

This register lists the Labor transactions entered during Shop Transaction Entry. The register provides a recap of hours worked and quantity completed for labor transactions recorded for each employee/crew. This register is sorted by employee/crew number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY								PAGE: 1			
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL								TIME: 05:30 PM			
LABOR REGISTER													
EMP/CREW NUMBER	TRANS CREW?	WORK ORDER NUMBER	STEP NUMBER	WORK CENTER	OPER CODE	START DATE	START TIME	STOP DATE	STOP TIME	TOTAL HOURS	QUANTITY COMPLETED	STEP COMPL?	
THOMIC	N	0000735	0001007	0001	XXXXX	XXXXX	99/99/99	1:00	99/99/99	5:00	4.000	5.00	Y
EMP THOMIC TOTAL: 4.000													
CARJIL	N	0000728	0001009	0001	XXXXX	XXXXX	99/99/99	10:00	99/99/99	11:00	1.000	2.00	N
CARJIL	N	0000736	0001008	0005	XXXXX	XXXXX	99/99/99	1:00	99/99/99	5:00	4.000	2:00	N
EMP CARJIL TOTAL: 5.000													

### Shop Miscellaneous Labor Register

This register lists the Miscellaneous Labor transactions entered during Shop Transaction Entry. This register is sorted by work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY								PAGE: 1	
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL								TIME: 05:30 PM	
MISC LABOR REGISTER											
TRANS NUMBER	WORK ORDER	STEP NUMBER	WORK CENTER	OPER CODE	LABOR DESCRIPTION	LABOR COST					
0000718	0001007	0001	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	263.75					
0000727	0001010	0005	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	51.20					
TOTAL MISCELLANEOUS LABOR COST:						314.95					

### Shop Miscellaneous Material Register

This register lists the Miscellaneous Material transactions entered during Shop Transaction Entry. This register is sorted by work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY				PAGE: 1	
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL				TIME: 05:30 PM	
MISC MATERIAL REGISTER							
TRANS NUMBER	WORK ORDER	STEP NUMBER	WORK CENTER	OPER CODE	MATERIAL DESCRIPTION	MATERIAL COST	
0000742	0001015	0001	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	213.25	
0000745	0001011	0001	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	42.25	
TOTAL MISCELLANEOUS MATERIAL COST:						255.50	

### Shop Outside Processing Register

This register lists the Outside Processing transactions entered during Shop Transaction Entry. This register is sorted by work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY				PAGE: 1		
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL				TIME: 05:30 PM		
OUTSIDE PROCESSING REGISTER								
TRANS NUMBER	WORK ORDER	STEP NUMBER	WORK CENTER	OPER CODE	PRODUCT/SERVICE DESCRIPTION	VENDOR NUMBER	VENDOR NAME	PROD/SERV COST
0000717	0001016	0001	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	NO VENDOR ASSIGNED		125.45
0000729	0001007	0005	XXXXX	XXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	NO VENDOR ASSIGNED		22.60
TOTAL OUTSIDE PROCESSING COST:								148.05

### Shop Completion Register

This register lists the work order Completion transactions entered during Shop Transaction Entry. This register is sorted by Work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY						PAGE: 1			
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL						TIME: 05:30 PM			
COMPLETION REGISTER											
TRANS NUMBER	WORK ORDER	COMPL TO	ORDER NUMBER	STEP NUMBER	ITEM/BILL NUMBER	QUANTITY COMPLETED	U/M	UNIT COST	EXTENDED COST	WHSE CODE	PURCH ACCOUNT
0000917	0001007	S/O	0001010	0001	XXXXXXXXXXXXXXXXXX	2.00	EACH	102.00	204.00	000	
0000940	0001010	INV			XXXXXXXXXXXXXXXXXX	1.00	EACH	98.00	98.00	000	

### Shop Close Register

This register lists the work orders that have been designated as closed during Shop Transaction Entry. This register is sorted by work order number.

RUN DATE: 05/15/95		XYZ MANUFACTURING COMPANY						PAGE: 1	
SYS DATE: 05/15/95		SHOP TRANSACTION JOURNAL						TIME: 05:30 PM	
CLOSE REGISTER									
TRANS NUMBER	WORK ORDER	ITEM/BILL NUMBER	ITEM DESCRIPTION	MAKE FOR	SCHEDULED RELEASE				
0000750	0001006	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	05/25/95				
0000752	0001005	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	05/30/95				
0000757	0001010	XXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	INVENTORY	06/02/95				

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