

# **Inventory Usage System User Manual**

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# Inventory Usage System

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## Inventory Usage System Features

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### Stores Transaction Log History with Minimal Resources

- \* The Inventory Usage System archives a very small record of your transaction log entries to a data base. This allows you to retain your transaction log history using only 20% of the space you would require to keep an equivalent number of months of transaction logs on your system.

### View a Parts Usage for each Month of the Year

- \* The system will calculate a parts usage for each month of the year and store it in the data base. List commands allow you to view up to 3 years of a parts usage by month.

### Instantly inquire into Transaction Log details

- \* List commands inquire into a part number or document (work order purchase order, sales order, material requisition) number's transaction log detail. Transactions are listed in descending date and time sequence. This allows you to view the most recent transactions first, and lists a running on hand balance of the part over time.

### Summarize History into User Definable Categories

- \* Transactions may be summarized into user definable categories for each month of the year. A default set of categories are supplied which allows you to view the Production, Shipments, Issues, Receipts, and Ending Inventory Balance for each month of the year. This is no limit to the number of years of history you may retain.

### Other Features:

- \* The user can define which commands they wish to archive. This eliminates the need to store cost adjustments, account changes, or location transactions, that do not effect the parts usage.
- \* All inquiry screens provide an 80 column and 132 column view with output options.
- \* You may define how usage is calculated. The system contains the defaults of which commands in Manman effect a parts usage. You may choose to include other commands, such as cycle counts, in your monthly usage numbers, to best suit your environment.
- \* Quiz schema is provided if you want to write your own inquiries

## Enhancements of Usage and Transaction Log Release 4.0

### Capture of Scrap Reason Code

The scrap reason code is now kept in the Transaction log detail data set. It resides in the 'to location' field of the data base. The scrap reason code will be displayed on the LI,891 screen in the 'to location' column in the format:

SCRAP R: xx

## Enhancements of Usage and Transaction Log Release 3.5

### A. Inventory Value Listing

A new option has been added to program LI,892 (transaction log summary by part) to allow you to list either inventory units of inventory value by category within a class code group (1, 2, 3, or 4).

### B. Class code total option

A new option has been added to program LI,892 (transaction log summary by part) to allow you to list the totals only for the class code selected.

## Enhancements of Usage and Transaction Log Release 3.0

### A. New option to list parts by class code

A new option has been added to program LI,892 (transaction log summary by part) to allow you to list all parts within a class code group (1, 2, 3, or 4). Two new list options will allow you to list a all parts usage summary, or list a parts transactions by category for all parts in a selected class code

### B. New Usage yearly totals

The command LI,892 (Transaction log summary by part number) now has a 13th column in the report version that will total all 12 months of a parts usage, and display a total yearly usage.

### C. New command to summarize transactions across data bases

A new command (LI, 893) has been added to the product which will allow you to view a parts transaction log entries in multiple manufacturing data bases. If you are a multiplant user or simply have more than one manufacturing data base, and you use the same part numbers in your data bases, this command will extract the transaction log detail from all data bases and display it to you in descending date and time sequence.

## **Features of Inventory Usage System Release 2.0**

### **A. New option to delete transaction log details**

A new option has been added to program UT, 891 (download transaction log to the data base) to purge old transaction logs from the data base. If you select this option, the program will prompt you for a beginning and ending transaction log number to delete.

### **B. New calculation option for Usage history**

The command UT, 892 (calculate Usage history) now has an option to recalculate the current years usage history, rather than all of the years usage history on file. This allows users to retain a small number of transaction logs in the data base, and still retain the prior years usage history as well.

## The Transaction Log Data Base

The transaction log data base is the key component of the Inventory Usage System. The transaction log data base archives the records from your transaction logs in a reduced format. This format allows you to store transaction log history on your system using only 20% of the space requirements you would require by keeping the equivalent number of months of transaction logs on your system. Additionally, which commands get archived, is entirely optional. You may decide not to archive any account number changes, cost changes, or location transfer types of commands, since they have no effect on the usage of your parts. This would in turn yield even less storage requirements for your history.

Dataset TXLDET		(* key fields)
*TXPARTNO	U18	Part Number Issued Received or Scrapped
*TXWO	U10	Work Order, Sales Order or Purchase Order No.
TXWOPNID	I1	0 = component part, 1 = assembly part no
TXDOCTYP	U2	Document Type WO, SO, or PO
TXFLOC	U10	Inventory Location Parts moved FROM
TXTLOC	U10	Inventory Location Parts moved TO
TXLOT	U18	Inventory Lot Number
TXLOTFLG	I1	Lot Id 0 = both to and from lot are blank -1 = from lot blank, to lot non-blank -2 = to lot blank, from lot non-blank -3 = to lot and from lot are equal >0 = to lot and from lot different from lot starts in byte value
TXQTY	R2	Quantity Issued, Received, or Scrapped
TXQOH	R2	Nettable Qty-On-Hand after Update
TXDR	U10	Debit Account Number
TXCR	U10	Credit Account Number
TXUSER	U8	Log-On Name
TXCMDNO	U6	Command Number
TXUNTCST	R2	Unit Cost
TXFILNO	I1	TLOG file number
TXDAT	I1	Date transaction is logged to Log File
TXTIME	I2	Time transaction is logged to log file

Dataset TXLUSG		(* key fields)
*TXPARTU	U18	Part number - usage file
TXUSAGE	36R2	Calculated Usage

The TXUSAGE array stores up 36 months of usage history. Buckets 1 to 12 are the current years usage for the part. Buckets 13 to 24 are last years usage for the part. Buckets 25 to 36 are the prior years usage for the part. The buckets reflect calendar months. Bucket 1, 13, 25 are for the month of January; bucket 2, 14, 26 are February, 12, 24, 36 are December.

Accessing TXLDB with Quiz

A Quiz Schema file (dictionary) is provided with the Inventory Usage System. There is a QDD dictionary which should work with most versions of Quiz named QTXLSCHC.PUB.MMVxxx. A PDL dictionary name PTXLSCHC.PUB.MMV110 is also available for Powerhouse 8.

To access the TXLDB use Quiz by entering a file equation and SET DICTIONARY command.

: QUIZ

Q U I Z (7.29.C8) Level 999  
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> : FILE TXLDB.MDATABAS=TXLDB.MDATAB60 (point at database 60)  
> SET DICTIONARY QTXLSCHC.PUB.MMV110  
> ACCESS TXLDET

### The Command Master File

The Inventory Usage System keeps a record for each of the 140 different commands that can be written to the transaction log. You can maintain each of the 140 commands using UT,890 to tailor the following options:

1. Do you wish to archive this command to the transaction log data base?
2. Do you wish to include this command in your usage calculations? The data base is preloaded with how Manman normally calculates a part's usage. There are other commands, TR,100 (cycle count a part) for example, which you may want to include in your usage calculations. Therefore, you can have control over how you feel usage would be best calculated in your environment.
3. What category does this command represent? Each of the 140 commands is assigned a default category. There are eight default categories that come predefined for each command in the data base:

ACCOUNTING	Account number changes, cost changes, and commands with no effect on usage.
INV ADJUST	Inventory adjustment transactions
ISSUES	Commands that issue parts to work orders
PRODUCTION	Work order completions where the part number in the transaction log is the assembly.
RECEIPTS	Purchase Order receipt commands
RETURNS	Purchase Order return commands
SCRAP	Scrap commands
SHIPMENTS	Shipment commands

You may define up to twenty categories of your own to customize your environment. Transaction Log history is summarized by category using command LI,892.

## Dataset TXLCMD

TXCCMD	U6	Command Number
TXCDESC	U30	Command Description
TXCMDKEP	I1	Store transaction detail of this command
TXASSEMB	I1	Assembly completion (1=yes 0=no)
TXUSGFLG	I1	Effect on usage (1=yes 0=no)
TXCATEG	U10	Command Category
TXCFUTI1	I1	Reserved for future use

The following two pages is a list of the predefined archive options, usage calculations, and categories that come with the system.

## LI,891 List Transaction Log Detail

This command is used to list the individual transactions in the transaction log data base for a part number or a document (work order, purchase order, sales order, material req number) number. The transactions are listed in descending date and time sequence, therefore listing the most recent transactions first.

### Prompts

Displays output options.  
OPTION (3)?

The system keeps track of the last time the current transaction log was downloaded to the transaction log data base. The date and time this last occurred (UT,891 was ran) is displayed.

INQUIRY OPTION:  
1. PART NUMBER  
2. DOCUMENT (WO, PO, SO, MR) NUMBER  
OPTION(1)?

If you selected option 1 to inquire by part number or option 2 to inquire by document number.

If you are directing the output to a printer (132 column device) the following two prompts appear:

BEGINNING DATE?  
ENDING DATE?

Enter a date range for the transaction log entries you would like to print. To print all entries on file, enter zero for the beginning date and 99 for the ending date.

You will receive one of the following two prompts based upon your inquiry option:

PART NUMBER?

DOCUMENT NUMBER?

The transaction log entries will be listed in descending date sequence. At their completion you will return to the 'inquiry option' prompt.

### Files Accessed

IM	Item master file
TXLDET	Transaction Log Detail file
TXLMAS	Transaction Log Master file

## Screen Format

Command number (TXLCMDNO - TXLDET)  
Part number or Document number (TXWO or TXPARTNO - TXLDET)  
From location number (TXFLOC - TXLDET)  
To location number or scrap reason code (TXTLOC - TXLDET)  
Transaction Quantity (TXQTY - TXLDET)  
Quantity on hand - quantity on hand of the part number listed  
after the transaction has occurred (TXQOH - TXLDET)  
Date (TXDAT - TXLDET)  
Time (TXTIME - TXLDET)  
User - the user that performed the transaction (TXUSER - TXLDET)

If you are listing to a printer (132 column)  
Debit Account number (TXDR - TXLDET)  
Credit Account number (TXCR - TXLDET)  
Unit Cost (TXUNTCST - TXLDET)  
Extended Cost - unit cost times transaction quantity

From lot number and To lot number are displayed on second  
line if they are non blank

## LI,892 List Usage and Categories by Month

This command is used to summarize a part numbers transactions by month and year. You have the option of inquiring by selected part number, or to list all part numbers within a class code group (1,2,3 or 4). You may summarize by either categories or by listing a parts calculated usage. Categories are defined for each command in the transaction log data base using command UT,890. Usage numbers are calculated by executing command UT,892.

Transactions are sorted into monthly buckets. For inquiries by category, the user is prompted for a year. For usage inquiries, the last 3 years (if on file) are listed.

The category listing option will always include an 'ending balance' line at the conclusion of listing all of the parts categories. The ending balance line lists the parts on hand balance at the end of the month listed.

### Prompts

Displays output options.  
OPTION (3)?

The system keeps track of the last time the current transaction log was downloaded to the transaction log data base. The date and time this last occurred (UT,891 was ran) is displayed.

LISTING OPTION:

1. USAGE SUMMARY BY PART NUMBER
  2. CATEGORY SUMMARY BY PART NUMBER
  3. USAGE SUMMARY BY CLASS CODE
  4. CATEGORY SUMMARY BY CLASS CODE UNITS OR VALUE
- OPTION(2)?

If you selected option 1 or 3 to list the monthly calculated usage buckets for the part number. Select option 2 or 4 to summarize the parts activity by month and category.

If you select options 1 or 2, the following prompt appears:  
PART NUMBER?

Enter the part number you wish to inquire upon

If you selected option 4, the following prompts appear:

1. LIST EACH PART IN THE CLASS CODE
  2. LIST CLASS CODE TOTALS ONLY
- OPTION(1)?

If you only want the totals of all parts in the class code,

then enter a '2' to this prompt. To see all parts enter a '1'.

- 1. DISPLAY INVENTORY UNITS
  - 2. DISPLAY INVENTORY VALUE
- OPTION(1)?

If you would care to see the inventory value of the transactions instead of the inventory units, enter a '2' to this prompt.

If you select options 3 or 4, the following prompts appear:

CLASS CODE GROUP?  
CLASS CODE?

Enter the class code group (1, 2, 3, or 4) and the class code belonging to the parts you wish to inquire upon.

If you are performing a category summary, the following prompt appears.

YEAR (xxxx)?

Enter the year you wish to inquire upon. The default is the current year.

The values are summarized by month and printed. You return to the 'year' prompt if you are inquiring by category or the 'listing option' prompt if you are listing usage.

### Files Accessed

IM	Item master file
TXLCMD	Transaction Log Command file
TXLDET	Transaction Log Detail file
TXLMAS	Transaction Log Master file
TXLUSG	Transaction Log Usage file

### Screen Format

Category (TXCCMD - TXLCMD) (TXLCMDNO - TXLDET)  
Monthly Buckets - Sum of transaction quantities if inquiring by category (TXQTY - TXLDET). Lists the months calculated usage if this is a usage inquiry (TXUSAGE - TLXUSG)

## UT,890 Maintain Command File

The command file in the Inventory Usage System performs 3 functions:

1. Determines if the command will be included in usage calculations when executing command UT,892 (Calculate Monthly Usage File).
2. Determines whether the command will be written (archived) to the transaction log data base when the transaction log download utility (UT,891) is executed.
3. Determines what 'category' this transaction is included in. The transaction history of the part is summarized using the category in command LI,892.

The system uploads a default set of values and categories the first time you execute this command. You may use this command to change whether the command should be archived, usage should be calculated using this command, or what category this command should appear in.

### Prompts

COMMAND NUMBER ('ALL' TO LIST)?

Enter the command number you wish to maintain. You must enter the command with a two character prefix, a comma, and a 3 digit suffix (ie. TR,309). If you want a listing of the current settings enter 'ALL' and output options will appear.

RETAIN THIS COMMAND IN TRANSACTION LOG DATA BASE (Y)?

If you want this command written to the transaction log data base, enter 'Y'. If disc storage is a concern, we recommend you do not archive commands that archive account number changes, cost changes, or location transfer commands that have no effect on usage.

USE THIS COMMAND IN USAGE CALCULATIONS (Y)?

If you would like the transaction quantity of this command included in your calculations of monthly usage (UT,892), enter a 'y'. The data base is initialized with the standard ASK defaults for usage calculations. Press return to retain the same value.

CATEGORY (old category)?

Enter a new category you would like to classify this command under. The 'category' is not a validated field. You may enter up to ten characters to describe a category. You are limited to 20 different different categories within the data base. The data base is initialized with 8 standard categories which you may change at your discretion. Press return to retain the same value.

**Files Accessed:** - TXLCMD Transaction log command file

## UT,891 Download Transaction Log Files to the Data Base

The command writes selected records from your transaction log files to the transaction log data base. Which commands get archived is at your option, depending on the setting in the Command Master file (see UT,890). This command should be run periodically throughout the day (once all your history has been loaded) to keep transaction log data base in synch with todays transactions.

### Prompts

The current transaction log number, dates, and number of transactions is displayed.

UPDATE OPTION:

1. UPDATE FROM LAST RECORD READ
  2. DOWNLOAD A RANGE OF TRANSACTION LOG NUMBERS
  3. DELETE A RANGE OF DOWNLOADED TRANSACTION LOGS
- OPTION(1)?

If this is the first time you have run UT,891, you will want to use option number 2, to download one or more of your transaction logs to the transaction log data base. You must also download your current transaction log (shown above) using option number 2, before you use option number 1 to update the data base from the last record read. Once you have downloaded all of your transaction logs using option 2, execute option 1 periodically throughout the day to keep the transaction log data base current.

Option 3 is used to purge old transaction log details from your transaction log data base. It will not purge your transaction logs.

If you select option 2 or 3, the following prompts will appear:

BEGINNING TRANSACTION LOG NUMBER?  
ENDING TRANSACTION LOG NUMBER?

Enter the numbers of the transaction logs you would like to download. The beginning and ending numbers may be the same if you only wish to download one transaction log. Enter the transaction log numbers as whole numbers (i.e. 123). You do not need to enter the 'TR' and the zeros that prefix the transaction log number.

53.2

The program begins reading the transaction log data base and will delete any previously downloaded history that exists within this range of transaction log numbers. The purpose of this is twofold:

1. Should this utility ever abort due to the data base filling up, it will purge any portion of the transaction log that was in the process of being loaded. Thus, no duplications will appear in your data base.
2. If you wanted to change which commands you archive at a

later date, you can download the transaction log again to reflect what commands you wanted to include or exclude.

The transaction logs are read, and written to the transaction log data base.

If you selected option 1, the current transaction log file is read since the point you last ran this utility. The new records are written to the transaction log data base. If you were to open one or more new transaction logs since the last time this utility was run, the program recognizes this and continues incrementing the transaction log number it is reading until all records in the current transaction log have been downloaded.

### **Files Accessed**

TXLCMD	Transaction Log Command file
TXLDET	Transaction Log Detail file - updated
TXLMAS	Transaction Log Master file - updated

## UT,892 Calculate Monthly Usage Record

The Inventory Usage System contains a file (TXLUSG) which will store your last 3 years (36 monthly buckets) usage of a part number. This command reads the downloaded transaction log detail and calculates monthly usage based on values in the Command Master file. The Command Master File has a record for each command in the data base, and an indicator as to whether this command should be used to calculate usage. The standard ASK usage defaults are preloaded into the Command Master File.

You must have downloaded your transaction log history using command UT,891 before running this command.

You may view the results of how usage was calculated using command LI,891 and selecting the usage listing option.

### Prompts

THIS PROGRAM RECALCULATES THE MONTHLY USAGE FILE  
CONTINUE (Y/N)?

This is a friendly warning that appears before you start the calculation process.

CALCULATE USAGE FOR:

1. ALL DOWNLOADED TRANSACTION LOGS
  2. THE CURRENT YEARS DOWNLOADED TRANSACTION LOGS
- OPTION(1)?

By default, this command will recalculate the last three years monthly usage for each part on the system. If you no longer have all three years of transaction log details downloaded in your database, we allow you the option of zeroing out the current years usage numbers, and just recalculating the current year.

The first step is that all previously existing usage records are deleted from the the transaction log data base. In other words, you wipe out your usage calculations from the last time you ran this utility.

The next step is to read the transaction log detail. For each type of command, the Command Master file is checked to see if this command should effect the usage calculation. If so, the transaction quantity of this command is summarized into monthly buckets for the last three years, or the current year only.

### Files Accessed

TXLCMD Transaction Log Command file

TXLDET Transaction Log Detail file -  
TXLMAS Transaction Log Master file -  
TXLUSG Transaction Log Usage file - updated

## LI,893 List a Parts Transaction Log Detail Across Databases

This command is used to list the individual transactions in the transaction log data base for a part number in multiple manufacturing data bases. This command will search to see if you have more than one transaction log data base (TXLDB) in the account you are in, and gathers all of the detailed transaction log records from each of the data bases, and combines them into a single inquiry screen.

### Prompts

Displays output options.  
OPTION (3)?

The following two prompts appear:

BEGINNING DATE?  
ENDING DATE?

Enter a date range for the transaction log entries you would like to print. To print all entries on file, enter zero for the beginning date and 99 for the ending date.

PART NUMBER?  
Enter the part number you wish to inquire upon. You will be warned if the part number does not exist in the data base and you will be asked if you wish to continue.

Each of the transaction log data bases will be searched for records on this part number. The transaction log entries will be listed in descending date and time sequence.

### Files Accessed

IM	Item master file
TXLDET	Transaction Log Detail file
TXLMAS	Transaction Log Master file

### Screen Format

Data base number	
Command number	(TXLCMDNO - TXLDET)
Part number or Document number	(TXWO or TXPARTNO - TXLDET)
From location number	(TXFLOC - TXLDET)
To location number or scrap reason code	(TXTLOC - TXLDET)
Transaction Quantity	(TXQTY - TXLDET)
Quantity on hand - quantity on hand of the part number listed	

after the transaction has occurred (TXQOH - TXLDET)  
Date (TXDAT - TXLDET)  
Time (TXTIME - TXLDET)  
User - the user that performed the transaction (TXUSER - TXLDET)

If you are listing to a printer (132 column)  
Debit Account number (TXDR - TXLDET)  
Credit Account number (TXCR - TXLDET)  
Unit Cost (TXUNTCST - TXLDET)  
Extended Cost - unit cost times transaction quantity

From lot number and To lot number are displayed on second line if they are non blank

after the transaction has occurred (TXQOH - TXLDET)

Date (TXDAT - TXLDET)

Time (TXTIME - TXLDET)

User - the user that performed the transaction (TXUSER - TXLDET)

If you are listing to a printer (132 column)

Debit Account number (TXDR - TXLDET)

Credit Account number (TXCR - TXLDET)

Unit Cost (TXUNTCST - TXLDET)

Extended Cost - unit cost times transaction quantity

From lot number and To lot number are displayed on second line if they are non blank

COMMAND NUMBER	DESCRIPTION	COMPL ASSMB	RETAIN TRANS. IN DATA BASE	INCLUDE IN USAGE CALCULATN	CATEGORY
CH, 110	CHANGE EVERYTHING ABOUT A PART		YES	YES	INV ADJUST
CH, 118	CHANGE A PART'S QUANTITY ON HA		YES	YES	INV ADJUST
CH, 129	CHANGE A PART'S GL ACCOUNT NO		NO	NO	ACCOUNTING
CH, 161	CHANGE EVER. ABOUT A LOCATION		NO	NO	ACCOUNTING
CH, 163	CHANGE A LOCATIONS GL ACCOUNT		NO	NO	ACCOUNTING
CH, 301	CHANGE A WORK ORDER ACCOUNT NO		NO	NO	ACCOUNTING
CH, 400	CHANGE QUANTITY IN RECV/INSP		YES	NO	ACCOUNTING
CH, 401	CHANGE QUANTITY RECD FROM R/I		YES	NO	RECEIPTS
CH, 402	CHANGE QUANTITY RECV TO STOCK		YES	NO	RECEIPTS
CH, 403	CHANGE QTY RETURNED FROM R/I		YES	NO	RETURNS
CH, 404	CHANGE QTY RETURNED FROM STOCK		YES	NO	RETURNS
CH, 405	CHANGE QTY RETURNED TO R/I		YES	NO	ACCOUNTING
CH, 406	CHANGE QTY SCRAPPED FROM R/I		YES	NO	SCRAP
PH, 500	PHYSICAL INVENTORY UPDATE		YES	NO	INV ADJUST
PH, 501	UPDATE WIP COMPONENT ISSUES		YES	NO	INV ADJUST
TR, 100	CYCLE COUNT A PART IN STORES		YES	NO	INV ADJUST
TR, 101	ISSUE PARTS FROM STORES		YES	YES	ISSUES
TR, 102	ISSUE PARTS TO STORES		YES	YES	ISSUES
TR, 103	SCRAP A PART FROM STORES		YES	NO	SCRAP
TR, 110	CYCLE COUNT A PART IN WIP		YES	YES	INV ADJUST
TR, 111	ISSUE PARTS FROM WIP		YES	YES	ISSUES
TR, 112	ISSUE PARTS TO A WIP LOCATION		YES	YES	ISSUES
TR, 113	SCRAP A PART FROM WIP		YES	NO	SCRAP
TR, 160	STORES TO STORES LOC TRANSFER		YES	NO	ACCOUNTING
TR, 161	STORES TO WIP LOCATN TRANSFER		YES	NO	ACCOUNTING
TR, 162	WIP TO STORES LOCATN TRANSFER		YES	NO	ACCOUNTING
TR, 163	WIP TO WIP LOCATION TRANSFER		YES	NO	ACCOUNTING
TR, 164	STORES TO STORES TRANSFER		YES	NO	ACCOUNTING
TR, 300	KIT A WORK ORDER		YES	YES	ISSUES
TR, 301	WORK ORDER DEKIT		YES	YES	ISSUES
TR, 302	COMPLETE AND MOVE PARTS		YES	YES	ISSUES
TR, 302	COMPLETE PARTS TO STOCK	YES	YES	NO	PRODUCTI ON
TR, 303	COMPLETE/MOVE PARTS INTO STOCK		YES	YES	ISSUES
TR, 303	COMPLETE/MOVE PARTS INTO STOCK	YES	YES	NO	PRODUCTI ON
TR, 305	RELIEVE A SHORTAGE		YES	YES	ISSUES
TR, 308	MULTIPLE WORK ORDER KIT		YES	YES	ISSUES
TR, 309	LABOR TICKET TRANSACTION		YES	YES	ISSUES
TR, 309	LABOR TICKET (COMPLETIONS)	YES	YES	NO	PRODUCTI ON
TR, 310	KIT A WORK ORDER		YES	YES	ISSUES
TR, 311	WORK ORDER DEKIT		YES	YES	ISSUES
TR, 313	SCRAP A COMPONENT FROM A WO		YES	NO	SCRAP
TR, 315	JOB TICKET TRANSACTION		YES	YES	ISSUES
TR, 315	JOB TICKET (COMPLETIONS)	YES	YES	NO	PRODUCTI ON
TR, 317	COMPLETE PARTS AT A WO OPER		YES	YES	ISSUES
TR, 318	MOVE PARTS THRU A WO OPERATN		YES	YES	SSUES
TR, 318	MOVE PARTS THRU A WO OPERATN	YES	YES	NO	PRODUCTI ON
TR, 320	KIT A WORK ORDER FROM LABELS		YES	YES	ISSUES
TR, 330	SPLIT A WORK ORDER		YES	NO	ACCOUNTING
TR, 331	WO TO WO TRANSFER		YES	NO	ACCOUNTING
TR, 400	RECEIVE PARTS INTO R/I		YES	NO	ACCOUNTING
TR, 401	RECEIVE INTO STOCK FROM R/I		YES	NO	RECEIPTS
TR, 402	RECEIVE PARTS INTO STOCK		YES	NO	RECEIPTS
TR, 403	RETURN PARTS FROM R/I		YES	NO	RETURNS
TR, 404	RETURN PARTS FROM STOCK		YES	NO	RETURNS
TR, 405	RETURN PARTS FROM STOCK TO R/I		YES	NO	ACCOUNTING
TR, 406	SCRAP PARTS FROM R/I		YES	NO	SCRAP
TR, 600	PARTS ISSUED TO A SALES ORDER		YES	YES	SHI PMENTS
UT, 102	CHANGE ACCOUNT 'A' TO 'B'		NO	NO	ACCOUNTING
UT, 249	INDIVIDL ASSEMBLY COST ROLLUP		NO	NO	ACCOUNTING
UT, 252	MOVE CURRENT COSTS TO STANDARD		NO	NO	ACCOUNTING
OT, 210	SALES ORDER SHIPMENT		YES	YES	SHI PMENTS
OT, 211	ALTER A SHIPMENT		YES	YES	SHI PMENTS

OT, 300	INVOICE A SALES ORDER	YES	YES	SHIPMENTS
OT, 301	VOID AN INVOICE	YES	YES	SHIPMENTS
OT, 400	CASH SALE	YES	YES	SHIPMENTS
CH, 410	CHANGE SERV QTY IN R/I	YES	NO	ACCOUNTING
CH, 411	CHANGE QTY RECVD FROM SERV R/I	YES	NO	RECEIPTS
CH, 412	CHANGE QTY RECV TO SERV STOCK	YES	NO	RECEIPTS
CH, 413	CHANGE QTY RETURN FROM SERV R/I	YES	NO	RETURNS
CH, 414	CHANGE QTY RETURN FROM SV STOC	YES	NO	RETURNS
CH, 415	CHANGE QTY RETURN TO SERV R/I	YES	NO	ACCOUNTING
CH, 416	CHANGE QTY SCRAPD FROM SERV R/	YES	NO	SCRAP
TR, 410	RECEIVE PARTS INTO SERV R/I	YES	NO	ACCOUNTING
TR, 411	RECEIVE INTO STOCK FROM SV R/I	YES	NO	RECEIPTS
TR, 412	RECEIVE PARTS INTO SERV STOCK	YES	NO	RECEIPTS
TR, 413	RETURN PARTS FROM SERV R/I	YES	NO	RETURNS
TR, 414	RETURN PARTS FROM SERV STOCK	YES	NO	RETURNS
TR, 415	RETURN FROM STOCK TO SERV R/I	YES	NO	ACCOUNTING
TR, 416	SCRAP PARTS FROM SERV R/I	YES	NO	SCRAP
SC, 668	CHANGE A MR SERV EXCHANGE QTY	YES	NO	ISSUES
SC, 669	CHANGE A MR SERV EXC QTY RECVD	YES	NO	ISSUES
ST, 610	ENTER/UPDATE AN INCIDENT REPT	NO	NO	ACCOUNTING
ST, 611	ENTER/UPDATE PRIORITY INCIDENT	NO	NO	ACCOUNTING
ST, 745	RECORD PICKING, DISPATCH NOTES	NO	NO	ACCOUNTING
ST, 750	STOCK RECEIPT FOR AN INCIDENT	NO	NO	ACCOUNTING
ST, 751	STOCK RECEIPT FOR A MANUAL REQ	YES	NO	RECEIPTS
ST, 752	STOCK RECEIPT FOR A RETURN	YES	NO	RECEIPT
ST, 765	ENTER SERV EXCHANGE RECEIPT	YES	NO	RECEIPTS
ST, 766	RETURN PARTS FROM A REQUISITION	YES	NO	RETURNS
ST, 770	SERVICE INVENTORY ADJUSTMENT	YES	NO	INV ADJUST
ST, 775	TRANSFER MFG INVENT TO SERV	YES	NO	ACCOUNTING
ST, 776	TRANSFER SERVICE INV LOCATNS	YES	NO	ACCOUNTING
SP, 510	ENTER A SERVICE CALL	YES	NO	ACCOUNTING
SU, 985	INVENTORY CONVERSION PROGRAM	YES	NO	ACCOUNTING
TR, 362	BACKFLUSH A REWORK PART	YES	YES	ISSUES
TR, 363	REVERSE BACKFLUSH REWORK PART	YES	YES	ISSUES
TR, 367	ISSUE MATERIAL FOR A PULL	YES	YES	ISSUES
TR, 369	RELIEVE A REPETITIVE SHORTAGE	YES	YES	ISSUES
TR, 370	BACKFLUSH AT A COUNT POINT	YES	YES	ISSUES
TR, 371	REVERSE BACKFLUSH COUNT POINT	YES	YES	ISSUES
TR, 372	SCRAP ASSEMBLIES AT A COUNT PT	YES	YES	SCRAP
TR, 374	WIP VALUE ADJUSTMENT	YES	NO	ACCOUNTING
TR, 375	REPETITIVE PULL LIST TRANSACTION	YES	YES	ISSUES
TR, 376	BACKFLUSH FROM A WORK AREA	YES	YES	ISSUES
TR, 378	SCRAP ASSEMBLIES FROM WORK ARE	YES	YES	SCRAP
TR, 379	REVERSE SCRAP ASSEMBLIES	YES	YES	SCRAP
UT, 355	COMPONENT CYCLE COUNT BALANCE	YES	NO	INV ADJUST
UT, 374	REVALUE WIP VALUE	YES	NO	ACCOUNTING
TR, 624	SHIP AN INTERPLANT ORDER	YES	YES	SHIPMENTS
TR, 625	RECORD A LOST SHIPMENT	YES	YES	SHIPMENTS
TR, 626	RECEIVE RETURNED PARTS	YES	YES	SHIPMENTS

\*\*\*\*\*  
 \* Example of a the transaction log entries for a part \*  
 \* number being listed (132 column format also available) \*  
 \*\*\*\*\*

COMMAND (MG,60)? L,891 \*

List transaction log by part or document (v1.0)

ENTER DESIRED OUTPUT OPTION:

- 0. LINE PRINTER
- 1. TERMINAL, 132 COLUMNS
- 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
- 3. TERMINAL

OPTION (3)? 3

LAST TRANSACTION LOG TO BE DOWNLOADED:

TRANSACTION LOG: TRO00422 RECORD NUMBER: 1263 TIME: 09/22/95 3:04 PM

INQUIRY OPTION:

- 1. PART NUMBER
  - 2. DOCUMENT (WO, PO, SO, MR) NUMBER
- OPTION(1)? 1

PART NUMBER? 225225 \*

ALUMINUM BAR 095 10.48X 46.31 M  
 SAT, SEP 23, 1995 TRANSACTION LOG DETAIL PAGE: 1

225225 ALUMINUM BAR 095 10.48X 46.31 M

COMMAND	DOCUMENT NUMBER	FROM LOCATION	TO LOCATION	TRANS QTY	QTY ON HAND	DATE	TIME	USER
TR,402	PO 102823		60	4300	4300	09/15	8:55A	SMITH
OT,210	SO 44068	60		3025	0	09/05	10:17A	GRAVES
TR,309	WO 3868		65	100	3025	08/31	2:25P	SMITH
TR,309	WO 3868		65	2375	2925	08/30	3:05P	SMITH
OT,210	SO 44067	65		600	550	08/30	7:44A	SMITH
OT,210	SO 44067	620103		500	1150	08/30	7:44A	SMITH
OT,210	SO 44067	614103		360	1650	08/30	7:44A	SMITH
TR,309	WO 3868		65	550	2010	08/29	3:18P	SMITH
TR,309	WO 3868		65	600	1460	08/28	3:33P	THOMPSON
TR,402	PO 102823		60	500	860	08/25	7:36A	SMITH
OT,210	SO 44066	60		2400	360	08/24	11:32A	GRAVES
OT,210	SO 44066	65		600	2760	08/16	8:10A	SMITH
TR,309	WO 3870		65	2560	3360	08/15	3:06P	SMITH
OT,210	SO 44066	620207		600	800	08/15	11:58A	SMITH
OT,210	SO 44066	620206		2400	1400	08/15	11:58A	SMITH
TR,309	WO 3870		65	200	3800	08/14	3:27P	THOMPSON

CONTINUE (Y)? N \*

INQUIRY OPTION:

- 1. PART NUMBER
  - 2. DOCUMENT (WO, PO, SO, MR) NUMBER
- OPTION(1)? E

COMMAND (MG,60)? L,891 \*  
 List transaction log by part or document (v1.0)

\*\*\*\*\*  
 \* Example of transaction log entries by \*  
 \* part number (132 column format) \*  
 \*\*\*\*\*

ENTER DESIRED OUTPUT OPTION:  
 0. LINE PRINTER  
 1. TERMINAL, 132 COLUMNS  
 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS  
 3. TERMINAL  
 OPTION (3)? 1

LAST TRANSACTION LOG TO BE DOWNLOADED:  
 TRANSACTION LOG: TRO00422 RECORD NUMBER: 1263 TIME: 09/22/95 3:04 PM

INQUIRY OPTION:  
 1. PART NUMBER  
 2. DOCUMENT (WO,PO,SO,MR) NUMBER  
 OPTION(1)? 1

BEGINNING DATE? 6/1 \*

ENDING DATE? 99 \*

PART NUMBER? 225225 \*

SAT, SEP 23, 1995, 9:19 AM

TRANSACTION LOG DETAIL 06/01/95 THRU 99/99/99

PAGE: 1

PART NUMBER: 225225		ALUMINUM BAR 095 10.48X 46.31 M		*****								
COMMAND	DOCUMENT NUMBER	FROM LOC/LOT	TO LOC/LOT	TRANSACTION QUANTITY	QUANTITY ON HAND	DATE	TIME	USER	DEBIT ACCOUNT	CREDIT ACCOUNT	UNIT COST	EXTENDED COST
TR,402	PO 102823		60	4300.000	4300.00	09/15/95	8:55A	SMITH	CFG	CUNINV	1.153	4957.90
OT,210	SO 44068	60		3025.000	.00	09/05/95	10:17A	GRAVES	5510.60	CFG	1.153	3487.82
TR,309	WO 3868		65	100.000	3025.00	08/31/95	2:25P	SMITH	CFG	CIP	1.153	115.30
TR,309	WO 3868		65	2375.000	2925.00	08/30/95	3:05P	SMITH	CFG	CIP	1.153	2738.37
OT,210	SO 44067	65		600.000	550.00	08/30/95	7:44A	SMITH	5510.60	CFG	1.153	691.80
OT,210	SO 44067	620103		500.000	1150.00	08/30/95	7:44A	SMITH	5510.60	CFG	1.153	576.50
OT,210	SO 44067	614103		360.000	1650.00	08/30/95	7:44A	SMITH	5510.60	CFG	1.153	415.08
TR,309	WO 3868		65	550.000	2010.00	08/29/95	3:18P	SMITH	CFG	CIP	1.153	634.15
TR,309	WO 3868		65	600.000	1460.00	08/28/95	3:33P	THOMPSON	CFG	CIP	1.153	691.80
TR,402	PO 102823		60	500.000	860.00	08/25/95	7:36A	SMITH	CFG	CUNINV	1.153	576.50
OT,210	SO 44066	60		2400.000	360.00	08/24/95	11:32A	GRAVES	5510.60	CFG	1.153	2767.20
OT,210	SO 44066	65		600.000	2760.00	08/16/95	8:10A	SMITH	5510.60	CFG	1.153	691.80
TR,309	WO 3870		65	2560.000	3360.00	08/15/95	3:06P	SMITH	CFG	CIP	1.153	2951.68
OT,210	SO 44066	620207		600.000	800.00	08/15/95	11:58A	SMITH	5510.60	CFG	1.153	691.80
OT,210	SO 44066	620206		2400.000	1400.00	08/15/95	11:58A	SMITH	5510.60	CFG	1.153	2767.20
TR,309	WO 3870		65	200.000	3800.00	08/14/95	3:27P	THOMPSON	CFG	CIP	1.153	230.60
TR,402	PO 102765		60	3600.000	3600.00	07/28/95	2:11P	GRAVES	CFG	CUNINV	1.153	4150.80
OT,210	SO 42945	618208		2400.000	.00	06/30/95	10:13A	SMITH	5510.60	CFG	1.153	2767.20
OT,210	SO 42945	608205		600.000	2400.00	06/30/95	10:13A	SMITH	5510.60	CFG	1.153	691.80
OT,210	SO 42944	612205		2400.000	3000.00	06/15/95	8:48A	SMITH	5510.60	CFG	1.153	2767.20
OT,210	SO 42944	608102		600.000	5400.00	06/15/95	8:48A	SMITH	5510.60	CFG	1.153	691.80
TR,402	PO 102695		60	3000.000	6000.00	06/07/95	2:26P	GRAVES	CFG	CUNINV	1.153	3459.00
TR,402	PO 102695		60	3000.000	3000.00	06/07/95	2:26P	GRAVES	CFG	CUNINV	1.153	3459.00
OT,210	SO 42943	620303		600.000	.00	06/02/95	10:45A	GRAVES	5510.60	CFG	1.153	691.80
OT,210	SO 42943	620204		2400.000	600.00	06/02/95	10:45A	GRAVES	5510.60	CFG	1.153	2767.20
TR,402	PO 102695		60	3000.000	3000.00	06/01/95	10:41A	SMITH	CFG	CUNINV	1.153	3459.00

\*\*\*\*\*  
 \* Example of a purchase order document being listed in \*  
 \* the 80 column format (132 column format also available) \*  
 \*\*\*\*\*

COMMAND (MG,60)? L,891 \*

List transaction log by part or document (v1.0)

ENTER DESIRED OUTPUT OPTION:

- 0. LINE PRINTER
- 1. TERMINAL, 132 COLUMNS
- 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
- 3. TERMINAL

OPTION (3)? 3

LAST TRANSACTION LOG TO BE DOWNLOADED:

TRANSACTION LOG: TRO00422 RECORD NUMBER: 1263 TIME: 09/22/95 3:04 PM

INQUIRY OPTION:

- 1. PART NUMBER
  - 2. DOCUMENT (WO, PO, SO, MR) NUMBER
- OPTION(1)? 2

DOCUMENT NUMBER? 102823 \*

SAT, SEP 23, 1995

TRANSACTION LOG DETAIL

PAGE: 1

DOCUMENT NUMBER: 102823

COMMAND	PART NUMBER	FROM LOCATION	TO LOCATION	TRANS QTY	QTY ON HAND	DATE	TIME	USER
TR, 402	225205		60	3000	4800	09/15	8:55A	SMYTH
TR, 402	225205		60	1800	0	09/15	8:55A	SMYTH
TR, 402	225225		60	4300	4300	09/15	8:55A	SMYTH
TR, 402	307904		60	20	20	09/14	7:22A	SMYTH
TR, 402	307408		60	90	542	08/25	7:36A	SMYTH
TR, 402	307311		60	225	463	08/25	7:36A	SMYTH
TR, 402	307208		60	165	564	08/25	7:36A	SMYTH
TR, 402	225225		60	500	860	08/25	7:36A	SMYTH
TR, 402	221100-25		60	60	491	08/25	7:35A	SMYTH
TR, 402	305212-02		60	15	70	08/25	7:35A	SMYTH
TR, 402	305213-06		60	10	29	08/25	7:35A	SMYTH
TR, 402	305211-03		60	30	30	08/25	7:35A	SMYTH

INQUIRY OPTION:

- 1. PART NUMBER
  - 2. DOCUMENT (WO, PO, SO, MR) NUMBER
- OPTION(1)? E

\*\*\*\*\*  
 \* Example of transaction log records summarized by \*  
 \* category and month (132 column format also available) \*  
 \*\*\*\*\*

COMMAND (MG,60)? L,892 \*

Transaction log period summary by part number (v1.0)

ENTER DESIRED OUTPUT OPTION:

- 0. LINE PRINTER
- 1. TERMINAL, 132 COLUMNS
- 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
- 3. TERMINAL

OPTION (3)? 3

LAST TRANSACTION LOG TO BE DOWNLOADED:

TRANSACTION LOG: TR000422 RECORD NUMBER: 1263 TIME: 3:04 PM

LISTING OPTION:

- 1. USAGE SUMMARY
  - 2. CATEGORY SUMMARY
- OPTION(2)?

PART NUMBER? 231000-15 \*

STAINLESS SHEET 23.75X 47.75 P

YEAR (95)? 95

GATHERING DATA...

SORTING 245 RECORDS BY CATEGORY.....

SAT, SEP 23, 1995

TRANSACTION LOG SUMMARY - 1995

PAGE: 1

=====

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN
-----	---	---	---	---	---	---
INV ADJUST	.00	-1.00	.00	.00	.00	.00
ISSUES	.00	.00	.00	.00	.00	-23.00
PRODUCTION	.00	.00	254.00	.00	.00	.00
RECEIPTS	.00	.00	.00	.00	140.00	20.00
SHIPMENTS	119.00	113.00	116.00	47.00	92.00	64.00
ENDING BAL	157.00	43.00	181.00	134.00	182.00	138.00

CATEGORY	JUL	AUG	SEP	OCT	NOV	DEC
-----	---	---	---	---	---	---
INV ADJUST	-1.00	.00	5.00	.00	.00	.00
ISSUES	.00	.00	.00	.00	.00	.00
PRODUCTION	.00	.00	.00	.00	.00	.00
RECEIPTS	.00	80.00	55.00	.00	.00	.00
SHIPMENTS	39.00	76.00	65.00	.00	.00	.00
ENDING BAL	121.00	125.00	120.00	120.00	120.00	120.00

YEAR (95)? E

\*\*\*\*\*  
 \* Example of usage summary showing the monthly usage \*  
 \* calculated by UT,892 over the last 3 years \*  
 \*\*\*\*\*

COMMAND (MG,60)? L,892 \*

Transaction log period summary by part number (v1.0)

ENTER DESIRED OUTPUT OPTION:

- 0. LINE PRINTER
- 1. TERMINAL, 132 COLUMNS
- 2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
- 3. TERMINAL

OPTION (3)? 1

LAST TRANSACTION LOG TO BE DOWNLOADED:

TRANSACTION LOG: TR000422 RECORD NUMBER: 1263 TIME: 3:04 PM

LISTING OPTION:

- 1. USAGE SUMMARY
  - 2. CATEGORY SUMMARY
- OPTION(2)? 1

PART NUMBER? 231000-15 \*

SAT, SEP 23, 1995, 9:50 AM

TRANSACTION LOG SUMMARY - 1995

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PART NUMBER: 231000-15

STAINLESS SHEET 23.75X 47.75 P

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-----	---	---	---	---	---	---	---	---	---	---	---	---
USAGE 95	119.00	113.00	370.00	47.00	92.00	41.00	39.00	76.00	55.00	.00	.00	.00
USAGE 94	139.00	160.00	146.00	78.00	191.00	88.00	32.00	106.00	60.00	129.00	253.00	71.00
USAGE 93	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.00	90.00

PART NUMBER? E \*

LISTING OPTION:

- 1. USAGE SUMMARY
  - 2. CATEGORY SUMMARY
- OPTION(2)? E

\*\*\*\*\*  
\* Example of reclassifying a command to a new category \*  
\*\*\*\*\*

COMMAND (MG, 60)? U, 890 \*

Maintain Command Master File (v1.0)

COMMAND NUMBER (' ALL' TO LIST)? TR, 100 \*

CYCLE COUNT A PART IN STORES

RETAIN THIS COMMAND IN TRANSACTION LOG DATA BASE (Y)? Y \*

USE THIS COMMAND IN USAGE CALCULATIONS (N)? Y \*

CATEGORY (INV ADJUST)? CYCLECOUNT\*

COMMAND NUMBER (' ALL' TO LIST)? E \*

\*\*\*\*\*  
\* Example of downloading current transaction log since \*  
\* the last time we ran the utility (last record read) \*  
\*\*\*\*\*

COMMAND (MG, 60)? U, 891 \*

Download transaction logs to transaction data base

CURRENT TRANSACTION FILE IS: TRO00422  
TRANSACTIONS RANGE FROM 09/18/95 TO 09/22/95  
CONTAINING: 1263 TRANSACTIONS

UPDATE OPTION:

1. UPDATE FROM LAST RECORD READ
  2. DOWNLOAD A RANGE OF TRANSACTION LOG NUMBERS
- OPTION(1)? 1

LAST TRANSACTION LOG TO BE DOWNLOADED:  
TRANSACTION LOG: TRO00422 RECORD NUMBER: 1260 TIME: 3:04 PM  
OPENING TRANSACTION LOG FILE NAME: TRO00422

READING TRANSACTION LOG: TRO00422

3 RECORDS UPDATED

```
*****
* Example of initially downloading your transaction logs *
* to the data base, using a range of selected transaction *
* log file names *
*****
```

```
COMMAND (MG,60)? U,891 *
```

```
Download transaction logs to transaction data base
```

```
CURRENT TRANSACTION FILE IS: TRO00422
TRANSACTIONS RANGE FROM 09/18/95 TO 09/22/95
CONTAINING: 1263 TRANSACTIONS
```

```
UPDATE OPTION:
```

1. UPDATE FROM LAST RECORD READ
  2. DOWNLOAD A RANGE OF TRANSACTION LOG NUMBERS
- ```
OPTION(1)? 2
```

```
BEGINNING TRANSACTION LOG NUMBER? 421
```

```
ENDING TRANSACTION LOG NUMBER? 422
```

```
SEARCHING TRANSACTION LOG DATA BASE...
NUMBER OF RECORDS DELETED FROM TRANSACTION DATA BASE: 1895
```

```
OPENING TRANSACTION LOG FILE NAME: TRO00421
READING TRANSACTION LOG: TRO00421
OPENING TRANSACTION LOG FILE NAME: TRO00422
READING TRANSACTION LOG: TRO00422
```

```
1895 RECORDS UPDATED
```

```
*****
* Example of running usage calculation utility (UT,892) *
* to recalculate the monthly usage buckets in the data base *
*****
```

```
COMMAND (MG,60)? U,892 *
```

```
Calculate Monthly Usage Record (v1.0)
THIS PROGRAM RECALCULATES THE MONTHLY USAGE FILE
CONTINUE(N/Y)? Y *
```

```
CALCULATE USAGE FOR:
1. ALL DOWNLOADED TRANSACTION LOGS ON FILE
2. THE CURRENT YEARS DOWNLOADED TRANSACTION LOGS
OPTION(1)?
```

```
SEARCHING TRANSACTION LOG DATA BASE...
USAGE RECORDS DELETED FROM TRANSACTION DATA BASE: 4345
```

```
GATHERING DATA...
SORTING 59509 RECORDS....
NUMBER OF USAGE RECORDS CREATED: 4388
```

```
COMMAND (MG,60)? E *
```