Multi-Level Component Availability Tools
User Manual

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Multi-Level Component Availability Tools

Contents

Multi-level Component Availability Features

The component availability tools consists of a set of screens designed to calculate the availability of components, the maximum of an assembly that can be made, and the dates the assembly can be made for a part or existing work order. Users can now get the complete picture of potential shortages when planning and releasing work orders.

The screens have functionality that far exceeds the limitations of the standard Manman LI,305. Including:

* Choose between single-level or multi-level component availability on an assembly or existing work order

* Displays supply information (open purchase orders or work orders) for short components

* Consider no other component requirements, other work order requirements, or sales order and other work order requirements

* View the quantity on hand and available for each component on each level

* Accumulates any sales order demands (not just OMAR hard allocations) for the components.

* Allows component availability checks on scheduled, kitted, or in progress work orders

* Option to consider quantities in Stores locations, WIP locations Non-nettable locations, selected locations, or locations to exclude.

* 80 and 132 column views are available for each screen.

New Features of Release 6.5

A. Prefixed Location Option

The selected location option, now allows you to include inventory from locations prefixed with a certain character. For example, if you only wanted to include inventory in your analysis for locations that started with an 'A', then you can now enter 'A@', and all locations that begin with an 'A' will be included in your analysis

B. Visibility of Manman Purchase Order Requisitions

If you use Manman purchase order requisitions, and there is an option requisition for the short component listed, a PR: will appear and the open purchase order requisition quantity will be displayed.

New Features of Release 6.0

A. New Multiple Assembly Multilevel Component Availability

A new command is available (RE,398) which will allow the user to perform a multi-level component availability check on a series of assembly part numbers and quantities. The user will enter one or more assembly part numbers and the quantity desired to manufacture of each. All levels of each of the bills of materials are exploded and common components have their requirements combined before a component availability check is performed.

New Features of Release 5.0

A. Lead Time Enhancement

Each of the Component Availability commands now lists the lead time directly under the source code of the part. For parts that use a unit lead time, the lead time is calculated by multiplying the quantity required times the unit lead time. Additionally, the longest lead time of a short component is

listed at the bottom of the display next to the 'number of short components'.

B. Buyer Code Enhancement

The Buyer code of each component is now listed directly underneath the unit of measure for the component.

C. Suppress Printing Components in LI,397

The LI,397 command (Multi-Level Shortage Check) has traditionally listed all components on the first level of the assembly, and listed only short components on every lower level assembly. This command has been changed to list only short components on the first level and every subsequent lower level.

Similarities and Differences with Manman LI,305

The three commands included in the Component Availability Tools were designed to yield the same result as Manman LI,305, but also designed to provide other availability options and additional information. The following lists the way LI,305 will calculate component availability and the methods LI,395/396/397/398 can be used to provide the same or other component availability calculations.

Component Inventory

The Manman LI,305 screen uses the quantity on hand only in stores locations for the components listed. The LI,395/396/397/398 screens first prompt allows you to choose between selecting inventory in stores locations only, wip locations only, both stores and wip locations (the total quantity on hand of the part), or to include non-nettable inventory as available inventory. If you were to do a comparison between an LI,305 and LI,395/396/397/398 you would have to select inventory in stores locations only option to get an accurate comparison.

Sales Order Demand

The Manman LI,305 was designed to essentially ignore any sales order demand as part of its availability calculations. LI,305 does list OMAR hard allocations as a 'for your information' item. The hard allocations do not enter into availability calculations. Companies who do not use hard allocations or want to consider sales orders (such as those for spare parts) as part of the component requirements, the LI,305 may distort the true quantity available.

The LI,395/396/397/398 screens were designed to gather all sales order requirements in the Order Demand file thru either the start date of the work order or thru an 'allocation cutoff date' that is prompted for. Sales order allocations are displayed in the 132 column version of the screens and the user has the option to include the component's sales order requirements with other work order requirements.

Components Short on other Work Orders

The LI,395/396/397/398 screens allow you the option of selecting how you would like to consider component requirements on other work orders. The screens have a prompt 'Availability Calculation Option' in which the user may ignore or consider parts short on other work orders. If you wish to consider parts short on other work orders you have a choice to do so either thru the start date of the work order you are inquiring on (this will be the component effectivity date if it is a part

number inquiry) or thru a 'cutoff date' that you select. The Manman LI,305 command always asked you for an allocation cutoff date, but is misleading because it does not gather component requirements past the start date of the work order. If you wish to do a comparison between LI,305 and LI,395/396/397/398 you must select to gather components thru the start date of the work order. If you choose to use a cutoff date, you are allowed the option of selecting the horizon you want to consider parts short on other work orders, including all outstanding component requirements.

The availability calculation option also provides you the opportunity to consider sales order demand as part of the component requirements as well.

Option 6 and 7 of the availability calculation option allows you to include component requirements on firm planned work orders. Option 6 will gather requirements on released firm planned work orders (those whose bill of material has been copied to the work order allocation file thru T,307 or comin variable setting in Manman). Option 7 will gather both released and unreleased firm planned work orders. To obtain unreleased firm planned work order requirements, a where-used is done each component, and all of the components assemblies are checked for firm planned orders. Manman command LI,305 does not look at component requirements of firm planned work orders.

Prompts

There are three different questions you are asked when you initially enter Manman LI,305. The first 'Consider Parts Short on Other Work Orders?' was eliminated. This prompt was replaced with the prompt 'Availability Calculation Option'. Within this prompt the user may choose to include or exclude components that are short on other work orders.

The other new prompt within LI,395/396/397/398 is the 'Component Inventory Option?' which allows you to choose between stores, wip, and/or non-nettable locations was discussed earlier.

Other Differences

The Manman LI,305 restricts component availability only to scheduled/unkitted work orders. The LI,395/396/397/398 allows availability on scheduled, kitted, or even in-progress work orders.

The Manman LI,305 displays a 'maximum that can be made' number at the conclusion of printing the component availability. If within LI,396 and 397 provide two maximum's that can be made. The first lists the maximum that can be made considering only

components on the first level of the assembly. The second lists the maximum that can be made taking into consideration all of the short components on all levels.

In Manman LI,305 and command LI,395 list only the 'short' components. The multi-level availability commands LI,396/398 lists all components of each level, regardless as to whether they are short or available. This was done so that the user will be able to easily reference the assemblies a lower level component is associated with. The multi-level shortage check command LI,397 lists all of the components on the first level of the assembly, and then only short components on lower levels.

Operating in Debug Mode

The LI,395/396/397/398 programs offer the capability of running in a 'debug mode'. The purpose of debug is to show the user more detail on why a component is showing short (or not as short). When using LI,395/396/397/398 in debug mode, each components calculated inventory balance, quantity required, and quantity short will be printed. If you consider other work orders component requirements as part of the availability calc-ulations, debug will also show you each work order number the component is required for.

To enter into debug mode, respond '99' to the first prompt: "Component Inventory Option?". The message "You are now entering into Debug Mode" will appear. You will then be prompted once again for "Component Inventory Option?". Respond to the prompts as you usually would. In addition to your normal display, you will receive detail on each component's requirements as they are extracted from the data base. It is recommended that you route the screen output to a printer when using debug mode.

To exit out of debug mode, you must exit the program.

Streamlining and defaulting of prompts

To allow the Component Availability to be as flexible as possible, there are a number of prompts to allow you to customize the availability calculations to your specific manufacturing environment. However, the number of prompts can limit your ability to get in and out of the commands quickly. Therefore, we are introducing the capability to predefine the answers so you are no longer prompted (like the comin variable concept). This is accomplished by entering the value of the prompt as a JCW in your logon UDC (see your system manager). The prompts which may be predefined are as follows:

Prompt name	JCW name	JCW Values
Component Inventory option	L396OPT1	1 thru 8
Availability Calculation option	L396OPT2	1 thru 7
Include source code F parts	L396OPT3	0=no 1=yes
Calculate quantity required on lower level components	L396OPT4	1 thru 3

For example, if you always wanted to exclude source code F parts, the MPE command that would be established would be:

```
:SETJCW L396OPT3 0
```

LI,395 Single Level Component Availability Check

This command is used to perform a single-level component availability check, based on an existing or potential work order. The quantity required for each component is determined and any component whose calculated availability falls short of the quantity required is listed. The next scheduled receipt (open work order or purchase order) is also displayed for any short component.

Prompts

Displays output options.
OPTION (3)?

COMPONENT INVENTORY OPTION:
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE LOCATIONS
6. STORES, WIP, AND NON-NETTABLE LOCATIONS
7. PROMPT FOR SELECTED LOCATION(S)
8. PROMPT FOR LOCATION(S) TO EXCLUDE
OPTION(3)?

Option 3 is the default because it uses the quantity on hand of the component and provides faster response time. All options but 3 gather the inventory in non-nettable locations to be displayed. Options 5 and 6 use the inventory in non-nettable locations as available component inventory.

If you selected option 7, the following prompt appears
LOCATION NUMBER?
Enter up to 10 location numbers to retrieve available Inventory from. Enter 'E' when finished entering Location numbers.

You can selected all location that begin with a prefix by entering the prefix followed by an @ sign. For example, to select locations that begin with a 1 (one), enter 1@.

If you selected option 8, the following prompt appears:
EXCLUDE LOCATION NUMBER?
Enter up to 10 location numbers to ignore. Available inventory will be taken from all locations except those entered. Enter 'E' when finished entering location numbers

AVAILABILITY CALCULATION OPTION:
1. NO WO OR SO REQUIREMENTS

2. WO REQUIREMENTS THRU THE WO START DATE
3. WO AND SO REQUIREMENTS THRU THE WO START DATE
4. WO REQUIREMENTS THRU THE CUTOFF DATE
5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
7. WO, ALL FIRM PLANNED WO, AND SO REQURIREMENTS THRU THE CUTOFF DATE

OPTION(4)?

Select option 1 if you wish to consider no other requirements on other work orders for the components. Select option 2 or 3 to gather work order requirements up until the start date of the work order that will be entered (This will be the component effectivity date if you are doing a part number inquiry). Options 4,5,6, and 7 will prompt you for a cutoff date thru which other work order requirements will be gathered for the components.

If you responded 4,5 or 6 to the above prompt:

ALLOCATION CUTOFF DATE?
If you wish to consider component requirements on other work orders in your component availability calculations, enter the date thru which other requirements will be gathered. Sales order requirements are also gathered thru this date. To gather all existing requirements for the components, enter 99.

INCLUDE SOURCE CODE F PARTS(N/Y)?
If you want to list free stock parts, enter a 'Y'.

WORK ORDER NUMBER?
If you are performing an availability check on an existing work order, enter the work order number. For in-progress work orders, the quantity required is calculated as the work order quantity minus the quantity completed minus the quantity scrapped.

If you are performing an availability check on a potential work order, enter an 'N'. The following prompts will appear:

ASSEMBLY PART NUMBER?
Enter the part number of the assembly whose components you wish to do an availability check upon.

QUANTITY?
Enter the quantity of the assembly desired.
COMPONENTS EFFECTIVE DATE?
Enter the date of the bill of material to use.

A list will appear of any component that is calculated as

as being short.

Returns to WORK ORDER NUMBER?

Files Accessed

ASSEMB Assembly master file
IM Item master file
INVFIL Inventory Location file
ODF Order Demand file
OWOF Open Work Order file
POFIL Purchase Order Detail file
PSF Product structure file
WOSHT Work Order Allocation File

Screen Format

Top of each page
Assembly part number
Assembly part number's description (DESC - IM)
Quantity on hand of assembly part number (QOH - IM)
Work Order number - if no work order number was entered, 'NONE' will be displayed.
Open work order quantity or quantity entered
Work order due date (WOPCD - OWOF)

For each component displayed
Component part number of assembly (COMNO - PSF or SHTPN - WOSHT)
Source Code of component (SCODE - IM)
Unit of Measure of component (UOM - IM)
Quantity for one - for a work order availability check this will be the SHTQPA(Release 8) or WOQ/SHTISS+SHTQTY (ASK Release 6 or 7). If this is for a potential work order this will be the quantity per assembly times the yield.
Quantity Required - open work order quantity or quantity entered times the quantity for one
Sales order demand - (132 mode only) - the total ODF requirements (ODQTY minus ODSHP) thru the cutoff date
Pulled - the quantity available of this component. Calculated as quantity required minus quantity short.
Short - the number of components that are unavailable

Quantity due in - the quantity of the next scheduled receipt of a purchase order (POQSD+POQI - POFIL) or work order (WOQ-WOCQ-WOQS - OWOF) for this part.
Document type - if a supply is found for the short component this will designate the type of supply found:
PO for an open purchase order
RI if parts are in receiving/inspection
WO if a scheduled work order exists
WP if a scheduled work order exists, kit list printed
FP if a firm planned work order exists

KT if a kitted work order exists
KP if a kitted work order exists, kit list printed
IN if an in-progress work order exists
PC if a partially completed work order exists
Date due in - the date of the next scheduled receipt.

Second line for each component
Description of the component
Buyer code of the component (if 132 column) (BCODE - IM)
Lead time of the component (if 132 column) (FLT+ULT*qty)
Document number - the purchase order or work order number of the next scheduled receipt

LI,396 Multi-Level Component Availability Check

This command is used to perform a multi-level component availability check, based on an existing or potential work order. All components at each level are listed whether they are short or available. This allows the user to reference the associated assemblies of any short components.

Prompts

Displays output options.
OPTION (3)?

COMPONENT INVENTORY OPTION:
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE LOCATIONS
6. STORES, WIP, AND NON-NETTABLE LOCATIONS
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)?

Option 3 is the default because it uses the quantity on hand of the component and provides faster response time. All options but 3 gather the inventory in non-nettable locations to be displayed. Options 5 and 6 use the inventory in non-nettable locations as available component inventory.

If you selected option 7, the following prompt appears:
LOCATION NUMBER?
Enter up to 10 location numbers. The quantities in these locations will be used as the available inventory to pull from. Enter 'E' when finished entering locations. You can selected all location that begin with a prefix by entering the prefix followed by an @ sign. For example, to select locations that begin with a 1 (one), enter 1@.

If you selected option 8, the following prompt appears:
EXCLUDE LOCATION NUMBER?
Enter up to 10 locations to exclude. Available inventory will be calculated from all locations except the ones entered. Enter 'E' when finished entering locations.

AVAILABILITY CALCULATION OPTION:
1. NO WO OR SO REQUIREMENTS
2. WO REQUIREMENTS THRU THE WO START DATE
3. WO AND SO REQUIREMENTS THRU THE WO START DATE
4. WO REQUIREMENTS THRU THE CUTOFF DATE
5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE

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6.  WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS
  THRU THE CUTOFF DATE
7.  WO, FIRM PLANNED WO, SO, AND BUILD SCHED
  REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)?
```

Select option 1 if you wish to consider no other requirements on other work orders for the components. Select option 2 or 3 to gather work order requirements up until the start date of the work order that will be entered (This will be the component effectivity date if you are doing a part number inquiry). Options 4,5,6, and 7 will prompt you for a cutoff date thru which other work order requirements will be gathered for the components.

If you responded 4,5,6, or 7 to the above prompt:
ALLOCATION CUTOFF DATE?
If you wish to consider component requirements on other work orders in your component availability calculations, enter the date thru which other requirements will be gathered. Sales order requirements are also gathered thru this date. To gather all existing requirements for the components, enter 99.

INCLUDE SOURCE CODE F PARTS (N/Y)?
If you want to list free stock parts enter 'Y'.

```
HOW DO YOU WISH TO CALCULATE QUANTITY REQUIRED ON
LOWER LEVEL COMPONENTS:
1.  DO NOT CONSIDER QUANTITY AVAILABLE OR SCHEDULED RECEIPTS
2.  NET THE QUANTITY AVAILABLE AGAINST THE QUANTITY REQUIRED
3.  NET THE QUANTITY AVAILABLE AND NEXT SCHEDULED RECEIPT
  AGAINST THE QUANTITY REQUIRED
OPTION(1)?
```

This prompt determines how the quantity required will be calculated for the lower level components. If you answer option 1, the quantity required for the next level will be calculated as the quantity required for the assembly times the quantity per assembly of the component. If you answer option 2, the quantity required for the next level will be the quantity short of the assembly times the quantity per assembly of the component. If you answer option 3, the quantity required for the next level will be the quantity short of the assembly, less any open work orders or purchase orders for the assembly, times the quantity per assembly.

WORK ORDER NUMBER?
If you are performing an availability check on an existing work order, enter the work order number. For in-progress work orders, the quantity required is calculated as the work order quantity minus the quantity completed minus the quantity scrapped.

If you are performing an availability check on a potential work order, enter an 'N'. The following prompts will appear:

ASSEMBLY PART NUMBER?
Enter the part number of the assembly whose components you wish to do an availability check upon.

QUANTITY?
Enter the quantity of the assembly desired.
COMPONENTS EFFECTIVE DATE?
Enter the date of the bill of material to use.

A message will appear for each level that is being processed. At the conclusion, an indented bill of material will appear for the assembly, listing all components.

Returns to WORK ORDER NUMBER?

Files Accessed

ASSEMB Assembly master file
IM Item master file
INVFIL Inventory Location file
ODF Order Demand file
OWOF Open Work Order file
POFIL Purchase Order Detail file
PSF Product structure file
WOSHT Work Order Allocation File
RPSHFIL Repetitive Shortage File
BLDFIL Build Schedule File

Screen Format

Top of each page
Assembly part number
Assembly part number's description (DESC - IM)
Quantity on hand of assembly part number (QOH - IM)
Work Order number - if no work order number was entered, 'NONE' will be displayed.
Open work order quantity or quantity entered
Work order due date (WOPCD - OWOF)

For each component displayed
Component part number of assembly (COMNO - PSF or SHTPN - WOSHT)
Source Code of component (SCODE - IM)
Unit of Measure of component (UOM - IM)
Quantity for one - for a work order availability check this will be the SHTQPA(Release 8) or WOQ/SHTISS+SHTQTY (ASK Release 6 or 7). If this is for a potential work order this will be the quantity per assembly times the yield.

Quantity Required - open work order quantity or quantity entered times the quantity for one
Sales order demand - (132 mode only) - the total ODF requirements (ODQTY minus ODSHP) thru the cutoff date
Pulled - the quantity available of this component. Calculated as quantity required minus quantity short.
Short - the number of components that are unavailable

Quantity due in - the quantity of the next scheduled receipt of a purchase order (POQSD+POQI - POFIL) or work order (WOQ-WOCQ-WOQS - OWOF) for this part.
Document type - if a supply is found for the short component, this will designate the type of supply found:
PO for an open purchase order
RI if parts are in receiving/inspection
WO if a scheduled work order exists
WP if a scheduled work order exists, kit list printed
FP if a firm planned work order exists
KT if a kitted work order exists
KP if a kitted work order exists, kit list printed
IN if an in-progress work order exists
PC if a partially completed work order exists
BD if a build schedule exists

Date due in - the date of the next scheduled receipt.

Second line for each component
Description of the component
Buyer code of the component (if 132 column) (BCODE - IM)
Lead time of the component (if 132 column) (FLT+ULT*qty)
Document number - The purchase order, work order number, or work area of the next scheduled receipt.

LI,397 Multi-Level Component Shortage Check

This command is used to perform a multi-level component availability check, based on an existing or potential work order. Only short components on the first level of the assembly are listed if they are short. For all lower levels, only those subassemblies that are considered short (see below) will be exploded further. Secondly, only short components of these subassemblies will be listed.

Logic to determine whether a subassembly will be exploded:

1. It will not be exploded if there is adequate inventory to pull.

2. If there is not adequate inventory to pull, the program checks if there is an open work order scheduled for the subassembly. If one if found, it will not be exploded and one of the following two messages will appear under the open work order

   NO PARTS WILL BE SHORT - if the work order is scheduled
   WORK ORDER HAS NO SHORTAGES - if the order has been kitted

   If no open work orders are found for the short , subassembly, it components will be exploded further.

Prompts

Displays output options.
OPTION (3)?

COMPONENT INVENTORY OPTION:
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE LOCATIONS
6. STORES, WIP, AND NON-NETTABLE LOCATIONS
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)?

Option 3 is the default because it uses the quantity on hand of the component and provides faster response time. All options but 3 gather the inventory in non-nettable locations to be displayed. Options 5 and 6 use the inventory in non-nettable locations as available component inventory.

If you selected option 7, the following prompt appears:
LOCATION NUMBER?
Enter up to 10 location numbers. The quantities in these locations will be used as the available inventory to

pull from. Enter 'E' when finished entering locations. You can selected all location that begin with a prefix by entering the prefix followed by an @ sign. For example, to select locations that begin with a 1 (one), enter 1@.

If you selected option 8, the following prompt appears:
EXCLUDE LOCATION NUMBER?
Enter up to 10 locations to exclude. Available inventory will be calculated from all locations except the ones entered. Enter 'E' when finished entering locations.

AVAILABILITY CALCULATION OPTION:
1. NO WO OR SO REQUIREMENTS
2. WO REQUIREMENTS THRU THE WO START DATE
3. WO AND SO REQUIREMENTS THRU THE WO START DATE
4. WO REQUIREMENTS THRU THE CUTOFF DATE
5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
7. WO, ALL FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)?

Select option 1 if you wish to consider no other requirements on other work orders for the components. Select option 2 or 3 to gather work order requirements up until the start date of the work order that will be entered (This will be the component effectivity date if you are doing a part number inquiry). Options 4, 5, and 6 will prompt you for a cutoff date thru which other work order requirements will be gathered for the components.

If you responded 4, 5, or 6 to the above prompt:
ALLOCATION CUTOFF DATE?
If you wish to consider component requirements on other work orders in your component availability calculations, enter the date thru which other requirements will be gathered. Sales order requirements are also gathered thru this date. To gather all existing requirements for the components, enter 99.

INCLUDE SOURCE CODE F PARTS (N/Y)?
If you want to list free stock parts, enter 'Y'.

HOW DO YOU WISH TO CALCULATE QUANTITY REQUIRED ON LOWER LEVEL COMPONENTS:
1. DO NOT CONSIDER QUANTITY AVAILABLE OR SCHEDULED RECEIPTS
2. NET THE QUANTITY AVAILABLE AGAINST THE QUANTITY REQUIRED
3. NET THE QUANTITY AVAILABLE AND NEXT SCHEDULED RECEIPT AGAINST THE QUANTITY REQUIRED
OPTION(1)?

This prompt determines how the quantity required will be calculated for the lower level components. If you answer

option 1, the quantity required for the next level will be calculated as the quantity required for the assembly times the quantity per assembly of the component. If you answer option 2, the quantity required for the next level will be the quantity short of the assembly times the quantity per assembly of the component. If you answer option 3, the quantity required for the next level will be the quantity short of the assembly, less any open work orders or purchase orders for the assembly, times the quantity per assembly.

WORK ORDER NUMBER?
If you are performing an availability check on an existing work order, enter the work order number. For in-progress work orders, the quantity required is calculated as the work order quantity minus the quantity completed minus the quantity scrapped.

If you are performing an availability check on a potential work order, enter an 'N'. The following prompts will appear:

ASSEMBLY PART NUMBER?
Enter the part number of the assembly whose components you wish to do an availability check upon.

QUANTITY?
Enter the quantity of the assembly desired.
COMPONENTS EFFECTIVE DATE?
Enter the date of the bill of material to use.

A message will appear for each level that is being processed. At the conclusion, an indented bill of material will appear for the assembly, listing all components.

Returns to WORK ORDER NUMBER?

Files Accessed

ASSEMB Assembly master file
IM Item master file
INVFIL Inventory Location file
ODF Order Demand file
OWOF Open Work Order file
POFIL Purchase Order Detail file
PSF Product structure file
WOSHT Work Order Allocation File

Screen Format

Top of each page
Assembly part number
Assembly part number's description (DESC - IM)
Quantity on hand of assembly part number (QOH - IM)

Work Order number - if no work order number was entered, 'NONE' will be displayed.
Open work order quantity or quantity entered
Work order due date (WOPCD - OWOF)

For each component displayed
Component part number of assembly (COMNO - PSF or SHTPN - WOSHT)
Source Code of component (SCODE - IM)
Unit of Measure of component (UOM - IM)
Quantity for one - for a work order availability check this will be the SHTQPA(Release 8) or WOQ/SHTISS+SHTQTY (ASK Release 6 or 7). If this is for a potential work order this will be the quantity per assembly times the yield.
Quantity Required - open work order quantity or quantity entered times the quantity for one
Sales order demand - (132 mode only) - the total ODF requirements (ODQTY minus ODSHP) thru the cutoff date
Pulled - the quantity available of this component. Calculated as quantity required minus quantity short.
Short - the number of components that are unavailable

Quantity due in - the quantity of the next scheduled receipt of a purchase order (POQSD+POQI - POFIL) or work order (WOQ-WOCQ-WOQS - OWOF) for this part.
Document type - if a supply is found for the short component, this will designate the type of supply found:
PO for an open purchase order
RI if parts are in receiving/inspection
WO if a scheduled work order exists
WP if a scheduled work order exists, kit list printed
FP if a firm planned work order exists
KT if a kitted work order exists
KP if a kitted work order exists, kit list printed
IN if an in-progress work order exists
PC if a partially completed work order exists

Date due in - the date of the next scheduled receipt.

Second line for each component
Description of the component
Buyer code of the component (if 132 column) (BCODE - IM)
Lead time of the component (if 132 column) (FLT+ULT*qty)
Document number - The purchase order or work order number of the next scheduled receipt.

LI,398 Multi-Level Component Availability Check (view detailed supply information)

This command is used to perform a multi-level component availability check, based on an existing or potential work order. All components at each level are listed whether they are short or available. This allows the user to reference the associated assemblies of any short components. This command is identical to the LI,396 command with the exception that it will list up to 9 open work orders or purchase orders scheduled for a short component. Open purchase orders for short components will list the vendor name and number. Open work orders for short components that have been kitted, will list the operation status of the work order.

Prompts

Displays output options.
OPTION (3)?

COMPONENT INVENTORY OPTION:
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE LOCATIONS
6. STORES, WIP, AND NON-NETTABLE LOCATIONS
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)?

Option 3 is the default because it uses the quantity on hand of the component and provides faster response time. All options but 3 gather the inventory in non-nettable locations to be displayed. Options 5 and 6 use the inventory in non-nettable locations as available component inventory.

If you selected option 7, the following prompt appears:
LOCATION NUMBER?
Enter up to 10 location numbers. The quantities in these locations will be used as the available inventory to pull from. Enter 'E' when finished entering locations. You can selected all location that begin with a prefix by entering the prefix followed by an @ sign. For example, to select locations that begin with a 1 (one), enter 1@.

If you selected option 8, the following prompt appears:
EXCLUDE LOCATION NUMBER?
Enter up to 10 locations to exclude. Available inventory will be calculated from all locations except the ones entered. Enter 'E' when finished entering locations.

```
AVAILABILITY CALCULATION OPTION:
1.  NO WO OR SO REQUIREMENTS
2.  WO REQUIREMENTS THRU THE WO START DATE
3.  WO AND SO REQUIREMENTS THRU THE WO START DATE
4.  WO REQUIREMENTS THRU THE CUTOFF DATE
5.  WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
6.  WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS
  THRU THE CUTOFF DATE
7.  WO, ALL FIRM PLANNED WO, AND SO REQUIREMENTS
  THRU THE CUTOFF DATE
OPTION(4)?
```

Select option 1 if you wish to consider no other requirements on other work orders for the components. Select option 2 or 3 to gather work order requirements up until the start date of the work order that will be entered (This will be the component effectivity date if you are doing a part number inquiry). Options 4,5,6, and 7 will prompt you for a cutoff date thru which other work order requirements will be gathered for the components.

If you responded 4,5,6, or 7 to the above prompt:
ALLOCATION CUTOFF DATE?
If you wish to consider component requirements on other work orders in your component availability calculations, enter the date thru which other requirements will be gathered. Sales order requirements are also gathered thru this date. To gather all existing requirements for the components, enter 99.

INCLUDE SOURCE CODE F PARTS (N/Y)?
If you would like to list free stock parts, enter 'Y'.

```
HOW DO YOU WISH TO CALCULATE QUANTITY REQUIRED ON
LOWER LEVEL COMPONENTS:
1.  DO NOT CONSIDER QUANTITY AVAILABLE OR SCHEDULED RECEIPTS
2.  NET THE QUANTITY AVAILABLE AGAINST THE QUANTITY REQUIRED
3.  NET THE QUANTITY AVAILABLE AND NEXT SCHEDULED RECEIPT
  AGAINST THE QUANTITY REQUIRED
OPTION(1)?
```

This prompt determines how the quantity required will be calculated for the lower level components. If you answer option 1, the quantity required for the next level will be calculated as the quantity required for the assembly times the quantity per assembly of the component. If you answer option 2, the quantity required for the next level will be the quantity short of the assembly times the quantity per assembly of the component. If you answer option 3, the quantity required for the next level will be the quantity short of the assembly, less any open work orders or purchase orders for the assembly, times the quantity per assembly.

WORK ORDER NUMBER?

If you are performing an availability check on an existing work order, enter the work order number. For in-progress work orders, the quantity required is calculated as the work order quantity minus the quantity completed minus the quantity scrapped.

If you are performing an availability check on a potential work order, enter an 'N'. The following prompts will appear:

ASSEMBLY PART NUMBER?
Enter the part number of the assembly whose components you wish to do an availability check upon.

QUANTITY?
Enter the quantity of the assembly desired.
COMPONENTS EFFECTIVE DATE?
Enter the date of the bill of material to use.

A message will appear for each level that is being processed. At the conclusion, an indented bill of material will appear for the assembly, listing all components.

Returns to WORK ORDER NUMBER?

Files Accessed

ASSEMB Assembly master file
IM Item master file
INVFIL Inventory Location file
ODF Order Demand file
OWOF Open Work Order file
POFIL Purchase Order Detail file
PSF Product structure file
WOSHT Work Order Allocation File
TRFIL Work Order Tracking File
VNDMAS Vendor Master File

Screen Format

Top of each page
Assembly part number
Assembly part number's description (DESC - IM)
Quantity on hand of assembly part number (QOH - IM)
Work Order number - if no work order number was entered, 'NONE' will be displayed.
Open work order quantity or quantity entered
Work order due date (WOPCD - OWOF)

For each component displayed
Component part number of assembly (COMNO - PSF or SHTPN - WOSHT)
Source Code of component (SCODE - IM)

Unit of Measure of component (UOM - IM)
Quantity for one - for a work order availability check this will be the SHTQPA(Release 8) or WOQ/SHTISS+SHTQTY (ASK Release 6 or 7). If this is for a potential work order this will be the quantity per assembly times the yield.
Quantity Required - open work order quantity or quantity entered times the quantity for one
Sales order demand - (132 mode only) - the total ODF requirements (ODQTY minus ODSHP) thru the cutoff date
Pulled - the quantity available of this component. Calculated as quantity required minus quantity short.
Short - the number of components that are unavailable

Supply Information

Vendor number (VC - VNDMAS) for open purchase orders
Vendor name (VNDNAM- VNDMAS) for open purchase orders

Quantity due in - the quantity of the next scheduled receipt of a purchase order (POQSD+POQI - POFIL) or work order (WOQ-WOCQ-WOQS - OWOF) for this part.
Document type - if a supply is found for the short component, this will designate the type of supply found:
PO for an open purchase order
RI if parts are in receiving/inspection
WO if a scheduled work order exists
WP if a scheduled work order exists, kit list printed
FP if a firm planned work order exists
KT if a kitted work order exists
KP if a kitted work order exists, kit list printed
IN if an in-progress work order exists
PC if a partially completed work order exists

Date due in - the date of the next scheduled receipt.

For open work orders on short components that have been kitted:
Sequence number (TRSEQ - TRFIL)
Operation number (TRNUM - TRFIL)
Work Center (TRWC - TRFIL)
Quantity In the Operation (TRQTY - TRFIL)
Quantity Completed at the Operation (TRCAQTY - TRFIL)
Quantity Issued (TRCAQTY - TRFIL)

Second line for each component

Description of the component
Buyer code of the component (if 132 column) (BCODE - IM)
Lead time of the component (if 132 column) (FLT+ULT*qty)
Document number - The purchase order or work order number of the next scheduled receipt.

RE,398 Multiple Assembly Component Availablity

This command is used to perform a multi-level component availability check, on a series of assembly part numbers and quantities. Each one of the assembly part numbers is exploded and common components have their required quantities combined before a component availability check is performed.

Because we are using more than one bill of material, the subassemblies and components are not indented, but listed in a summary bill of material format.

Prompts

Displays output options.
OPTION (3)?

COMPONENT INVENTORY OPTION:
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE LOCATIONS
6. STORES, WIP, AND NON-NETTABLE LOCATIONS
7. PROMPT FOR SELECTED LOCATION(S)
8. PROMPT FOR LOCATION(S) TO EXCLUDE
OPTION(3)?

Option 3 is the default because it uses the quantity on hand of the component and provides faster response time. All options but 3 gather the inventory in non-nettable locations to be displayed. Options 5 and 6 use the inventory in non-nettable locations as available component inventory.

If you selected option 7, the following prompt appears
LOCATION NUMBER?
Enter up to 10 location numbers to retrieve available Inventory from. Enter 'E' when finished entering Location numbers.
You can selected all location that begin with a prefix by entering the prefix followed by an @ sign. For example, to select locations that begin with a 1 (one), enter 1@.

If you selected option 8, the following prompt appears:
EXCLUDE LOCATION NUMBER?
Enter up to 10 location numbers to ignore. Available inventory will be taken from all locations except those entered. Enter 'E' when finished entering location numbers

```
AVAILABILITY CALCULATION OPTION:
1.  NO WO OR SO REQUIREMENTS
2.  WO REQUIREMENTS THRU THE WO START DATE
3.  WO AND SO REQUIREMENTS THRU THE WO START DATE
4.  WO REQUIREMENTS THRU THE CUTOFF DATE
5.  WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
6.  WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS
  THRU THE CUTOFF DATE
7.  WO, ALL FIRM PLANNED WO, AND SO REQUIREMENTS
  THRU THE CUTOFF DATE
OPTION(4)?
```

Select option 1 if you wish to consider no other requirements on other work orders for the components. Select option 2 or 3 to gather work order requirements up until the start date of the work order that will be entered (This will be the component effectivity date if you are doing a part number inquiry). Options 4,5,6, and 7 will prompt you for a cutoff date thru which other work order requirements will be gathered for the components.

If you responded 4,5 or 6 to the above prompt:
ALLOCATION CUTOFF DATE?
If you wish to consider component requirements on other work orders in your component availability calculations, enter the date thru which other requirements will be gathered. Sales order requirements are also gathered thru this date. To gather all existing requirements for the components, enter 99.

ASSEMBLY PART NUMBER?
QUANTITY?
Enter the assembly part number and the quantity you wish to manufacture. When you are finished entering assembly part numbers, enter 'E' to continue.

Files Accessed

ASSEMB Assembly master file
IM Item master file
INVFIL Inventory Location file
ODF Order Demand file
OWOF Open Work Order file
POFIL Purchase Order Detail file
PSF Product structure file
WOSHT Work Order Allocation File

Report Format

For each component displayed
Component part number of assembly (COMNO - PSF)

Source Code of component (SCODE - IM)
Unit of Measure of component (UOM - IM)
Quantity for one - (QPA - PSF)
Quantity Required - open work order quantity or quantity entered times the quantity for one
Sales order demand - (132 mode only) - the total ODF requirements (ODQTY minus ODSHP) thru the cutoff date
Pulled - the quantity available of this component. Calculated as quantity required minus quantity short.
Short - the number of components that are unavailable
Cutoff date - the start date of the work order this component is required upon, or the cutoff date the user entered

Quantity due in - the quantity of the next scheduled receipt of a purchase order (POQSD+POQI - POFIL) or work order (WOQ-WOCQ-WOQS - OWOF) for this part.
Document type - if a supply is found for the short component this will designate the type of supply found:
PO for an open purchase order
RI if parts are in receiving/inspection
WO if a scheduled work order exists
WP if a scheduled work order exists, kit list printed
FP if a firm planned work order exists
KT if a kitted work order exists
KP if a kitted work order exists, kit list printed
IN if an in-progress work order exists
PC if a partially completed work order exists
Date due in - the date of the next scheduled receipt.
Quantity in Receiving Inspection

Second line for each component
Description of the component
Lead Time of the component
Document number - the purchase order or work order number of the next scheduled receipt

```
COMMAND (MG,60)? L,395                        *  ****  Example of Single Level Component   ****
                                                ****  Availability 80 column view         ****
Single-Level Availability Check   (v5.2)
ENTER DESIRED OUTPUT OPTION:
  0. LINE PRINTER
  1. TERMINAL, 132 COLUMNS
  2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
  3. TERMINAL
OPTION (3)? 3

COMPONENT INVENTORY OPTION?
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE
6. STORES, WIP, AND NON-NETTABLE
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)? 3

AVAILABILITY CALCULATION OPTION:
 1. NO OTHER WO OR SO REQUIREMENTS
 2. WO REQUIREMENTS THRU THE WO START DATE
 3. WO AND SO REQUIREMENTS THRU THE WO START DATE
 4. WO REQUIREMENTS THRU THE CUTOFF DATE
 5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
 6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
 7. WO, ALL FIRM PLANNED WO, AND SO  REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)? 4

ALLOCATION CUTOFF DATE? 7/15/92 *

INCLUDE SOURCE CODE F PARTS (N/Y)? N *

WORK ORDER NUMBER? 2434      *

PROCESSING  13 COMPONENTS
FRI, OCT  6, 1995        COMPONENT AVAILABILITY CHECK                  PAGE:  1
                         ============================
                          ALLOCATIONS AS OF:07/15/92
PART NUMBER: 851035            1035 LVR ASTROTURN PLAIN         QOH:   708.000
WORK ORDER : 2434        WP          QUANTITY:    5700.000   DUE DATE: 06/25/92

 PART NUMBER/              QUANTITY   QUANTITY             QUANTITY      DATE
 DESCRIPTION        UM SC   FOR ONE   REQUIRED    SHORT     DUE IN      DUE IN
 ----------------- -- -- ---------- ---------- ---------- ---------- --------
*11941              EA M      1.000    5700.00     315.00     100.00 WO12/01/94
 TVC-MILL FINISH                                                      2580
*11942              EA B      1.000    5700.00    5700.00      70.00   01/14/93
 TURBINE   PAD                                                        101072
*15431              EA P      1.000    5700.00    1096.00    1346.00 PO03/22/92
 SHAFT ASSEMBLY                                                       100963
*854856             EA M      1.000    5700.00    5700.00     569.00 PC06/10/92
 COLLAR AND FINS ASSEMBLY                                             2172
*854874             EA M      1.000    5700.00    4084.00    4637.00 PC06/25/92
 RIVET COLLAR 4 1/2 PLN                                               2439
NUMBER OF SHORT COMPONENTS =  5     LONGEST LEAD TIME = 58
DATE LAST SHORT COMPONENT WILL BE RECEIVED ON:12/01/94
MAXIMUM THAT CAN BE MADE:        .00
```

```
============================================================
=  Example of single level component availability          =
=  132 column view                                         =
============================================================
```

FRI, OCT 6, 1995, 3:40 PM — SINGLE-LEVEL COMPONENT AVAILABILITY CHECK — PAGE: 1

ALLOCATIONS AS OF:07/15/92

PART NUMBER: 851035 1035 LVR ASTROTURN PLAIN QOH: 708.000
WORK ORDER : 2434 WOSTATUS: WP QUANTITY: 5700.000 DUE DATE: 06/25/92

PART NUMBER/ DESCRIPTION	UM BC	SC LT	QUANTITY FOR ONE	QUANTITY REQUIRED	SO DEMAND	PULLED	SHORT	QUANTITY DUE IN	DATE DUE IN	ON HAND/ NON-NET
*11941	EA	M	1.000	5700.000	100.00	5385.00	315.00	100.00	WO 12/01/94	5983.00
TVC-MILL FINISH		04 56							2580	.00
*11942	EA	B	1.000	5700.000	.00	.00	5700.00	70.00	01/14/93	210.00
TURBINE PAD		04 58							101072	.00
*15431	EA	P	1.000	5700.000	.00	4604.00	1096.00	1346.00	PO 03/22/92	9607.00
SHAFT ASSEMBLY		04 28							100963	.00
*854856	EA	M	1.000	5700.000	.00	.00	5700.00	569.00	PC 06/10/92	29.00
COLLAR AND FINS ASSEMBLY		03 0							2172	.00
*854874	EA	M	1.000	5700.000	.00	1616.00	4084.00	4637.00	PC 06/25/92	2214.00
RIVET COLLAR 4 1/2 PLN		03 0							2439	.00

NUMBER OF SHORT COMPONENTS = 5 LONGEST LEAD TIME = 58
DATE LAST SHORT COMPONENT WILL BE RECEIVED ON:12/01/94
MAXIMUM THAT CAN BE MADE: .00

```
============================================================
Example of Multi-Level Component Availability for a
potential work order of 500.    132 column view
============================================================

COMMAND (MG,60)? L,396                      *

Multi-Level Availability Check  (v5.2)

ENTER DESIRED OUTPUT OPTION:
 -2. VIEW PROMPTS, NO ACTION
 -1. STREAM JOB FILE
  0. LINE PRINTER
  1. TERMINAL, 132 COLUMNS
  2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
  3. TERMINAL
OPTION (3)? 1

COMPONENT INVENTORY OPTION?
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE
6. STORES, WIP, AND NON-NETTABLE
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)? 4

AVAILABILITY CALCULATION OPTION:
 1. NO OTHER WO OR SO REQUIREMENTS
 2. WO REQUIREMENTS THRU THE WO START DATE
 3. WO AND SO REQUIREMENTS THRU THE WO START DATE
 4. WO REQUIREMENTS THRU THE CUTOFF DATE
 5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
 6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
 7. WO, ALL FIRM PLANNED WO, AND SO  REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)? 4

ALLOCATION CUTOFF DATE? 7/15/92 *

INCLUDE SOURCE CODE F PARTS (N/Y)? N *

HOW DO YOU WISH TO CALCULATE QUANTITY REQUIRED ON LOWER LEVEL COMPONENTS:
 1. DO NOT CONSIDER QUANTITIES ON HAND OR SCHEDULED RECEIPTS
 2. NET THE QUANTITY ON HAND AGAINST QUANTITY REQUIRED
 3. NET QUANTITY ON HAND AND NEXT SCHEDULED RECEIPT AGAINST QUANTITY REQUIRED
OPTION(1)? 1


WORK ORDER NUMBER? N         *

ASSEMBLY PART NUMBER? 854856           *

QUANTITY? 500

COMPONENTS EFFECTIVE DATE?         *

PROCESSING   4 RECORDS, LEVEL  0
PROCESSING   6 RECORDS, LEVEL  1
PROCESSING   5 RECORDS, LEVEL  2
```

MULTI-LEVEL COMPONENT AVAILABILITY CHECK

ALLOCATIONS AS OF:07/15/92

PART NUMBER: 854856 COLLAR AND FINS ASSEMBLY QOH: 29.000
WORK ORDER : NONE WO STATUS: QUANTITY: 500.000 DUE DATE: 10/06/95

PART NUMBER/ DESCRIPTION	UM BC	SC LT	QUANTITY FOR ONE	QUANTITY REQUIRED	SO DEMAND	PULLED	SHORT	QUANTITY DUE IN	DATE DUE IN	ON HAND/ NON-NET
*1010	EA	M	1.000	500.000	.00	.00	500.00	.00		.00
WIDGET (REPETITIVE)	DB	4								.00
1011	EA	M	2.000	1000.000	.00	150.00	850.00	.00		150.00
WIDGET COMPONENT (REP)		0								.00
*11358	EA	P	64.000	32000.000	.00	32000.00	.00	.00		1011507.00
RIVET, TUBULAR 7/32	04	21								.00
*854850	EA	M	1.000	500.000	.00	500.00	.00	.00		7083.00
CROWN TO FINS PLN	03	0								.00
* 855332	EA	M	2.000	1000.000	.00	1000.00	.00	.00		15304.00
CROWN PLATE PLN	03	1								.00
* 11358	EA	P	2.000	2000.000	.00	2000.00	.00	.00		1011507.00
RIVET, TUBULAR 7/32	04	21								.00
* 850766	EA	M	1.000	1000.000	.00	1000.00	.00	.00		10000.00
CROWN PLATE BLANK PLAIN	04	0								.00
* 13035	LB	B	2.000	2000.000	.00	2000.00	.00	.00		2904.00
.016X17 MF ALUM 3003-0	04	0								.00
18220	LB	B	.170	170.000	.00	170.00	.00	.00		4629.00
0215X20 MF 3003H14	04	84								.00
* 855335	EA	M	24.000	12000.000	.00	12000.00	.00	.00		60264.00
TURBINE FINS PLN	03	1								.00
* 13009	LB	B	.079	948.000	.00	948.00	.00	.00		11520.00
020X15 MF 3003H14	04	84								.00
*854892	EA	M	1.000	500.000	.00	451.00	49.00	4550.00	PC 06/25/92	6720.00
RIVET 3" COLLAR PLN	03	0							2442	.00
* 11358	EA	P	12.000	6000.000	.00	6000.00	.00	.00		1011507.00
RIVET, TUBULAR 7/32	04	21								.00
* 854772	EA	M	1.000	500.000	.00	500.00	.00	.00		8860.00
BRKTS TO SUPPORT RING	03	0								.00
* 15341	EA	P	4.000	2000.000	.00	649.00	1351.00	2000.00	PO 07/01/92	649.00
SUPPORT BRACKET	04	28							101071	.00
* 854766	EA	M	1.000	500.000	.00	43.00	457.00	500.00	WP 06/20/92	43.00
GROMMIT TO SUPPORT RING	03	0							2573	.00
* 15339	EA	P	1.000	500.000	.00	226.00	274.00	1000.00	PO 07/01/92	226.00
RUBBER GROMMET GR033	04	42							101071	.00
* 15340	EA	P	1.000	500.000	.00	500.00	.00	.00		15960.00
SUPPORTING RING- GALVZD	04	28								.00
* 854886	EA	M	1.000	500.000	.00	500.00	.00	.00		4859.00
3 IN COLLAR ROLL PLN	03	0								.00

NUMBER OF SHORT COMPONENTS = 6 LONGEST LEAD TIME = 42
SHORT COMPONENTS WITHOUT A SCHEDULED RECEIPT FOUND
MAXIMUM THAT CAN BE MADE (FIRST LEVEL): .00
MAXIMUM THAT CAN BE MADE (ALL LEVELS) : .00

WORK ORDER NUMBER? E *

```
============================================================
Example of Multi-Level Shortage Check for a work order and
selected location number.   132 column view.
============================================================


COMMAND (MG,60)? L,397                      *

Multi-Level Shortage Check   (v5.2)

ENTER DESIRED OUTPUT OPTION:
 -2. VIEW PROMPTS, NO ACTION
 -1. STREAM JOB FILE
  0. LINE PRINTER
  1. TERMINAL, 132 COLUMNS
  2. ENTER LOGICAL DEVICE/DISC FILE, 132 COLUMNS
  3. TERMINAL
OPTION (3)? 1

COMPONENT INVENTORY OPTION?
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE
6. STORES, WIP, AND NON-NETTABLE
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)? 7

LOCATION NUMBER? 60        *
LOCATION NUMBER ('E' TO CONTINUE)? E         *

AVAILABILITY CALCULATION OPTION:
 1. NO OTHER WO OR SO REQUIREMENTS
 2. WO REQUIREMENTS THRU THE WO START DATE
 3. WO AND SO REQUIREMENTS THRU THE WO START DATE
 4. WO REQUIREMENTS THRU THE CUTOFF DATE
 5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
 6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
 7. WO, ALL FIRM PLANNED WO, AND SO  REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)? 4

ALLOCATION CUTOFF DATE? 12/1    *

INCLUDE SOURCE CODE F PARTS (N/Y)?   *

HOW DO YOU WISH TO CALCULATE QUANTITY REQUIRED ON LOWER LEVEL COMPONENTS:
 1. DO NOT CONSIDER QUANTITIES ON HAND OR SCHEDULED RECEIPTS
 2. NET THE QUANTITY ON HAND AGAINST QUANTITY REQUIRED
 3. NET QUANTITY ON HAND AND NEXT SCHEDULED RECEIPT AGAINST QUANTITY REQUIRED
OPTION(1)? 1


WORK ORDER NUMBER? 2448      *

PROCESSING   7 RECORDS, LEVEL  1
PROCESSING   5 RECORDS, LEVEL  2
PROCESSING   4 RECORDS, LEVEL  3
```

ALLOCATIONS AS OF:12/01/95

PART NUMBER: 854790 COLLAR TO FINS BRN QOH: -48.000
WORK ORDER : 2448 WO STATUS: KP QUANTITY: 2800.000 DUE DATE: 06/25/92

PART NUMBER/ DESCRIPTION 1-2-3-4-5-6-7-8-9	UM BC	SC LT	QUANTITY FOR ONE	QUANTITY REQUIRED	SO DEMAND	PULLED	SHORT	QUANTITY DUE IN	DATE DUE IN	ON HAND/ NON-NET
*854784	EA	M	1.000	2800.000	.00	.00	2800.00	2745.00	PC 06/25/92	.00
CROWN TO FINS BRN	03	0							2447	.00
* 15391	EA	P	25.000	70000.000	.00	.00	70000.00	.00		.00
TUBULAR RIVET 7/32 BROWN	04	66								.00
* 855395	EA	M	1.000	2800.000	.00	.00	2800.00	.00		.00
CROWN PLATE BRN	03	1								.00
* 850765	EA	M	1.000	2800.000	.00	.00	2800.00	.00		.00
CROWN PLATE BLANK BROWN	04	0								.00
18238	LB	B	.170	476.000	.00	.00	476.00	.00		.00
0215X20 BRN 3003H14	04112									.00
* 855398	EA	M	24.000	67200.000	.00	.00	67200.00	.00		.00
TURBINE FINS BRN	03	1								.00
* 18234	LB	B	.079	5308.800	.00	.00	5308.80	.00		.00
020X15 BRN MF 3003H14	04112									.00
*854826	EA	M	1.000	2800.000	.00	761.00	2039.00	2800.00	WP 06/25/92	1000.00
RIVET 3" COLLAR BRN	03	0							2454	.00
* 15391	EA	P	8.000	22400.000	.00	.00	22400.00	.00		.00
TUBULAR RIVET 7/32 BROWN	04	66								.00
* 854772	EA	M	1.000	2800.000	.00	.00	2800.00	.00		1000.00
BRKTS TO SUPPORT RING	03	0								.00
* 15341	EA	P	4.000	11200.000	.00	.00	11200.00	2000.00	PO 07/01/92	.00
SUPPORT BRACKET	04	28							101071	.00
* 854766	EA	M	1.000	2800.000	.00	.00	2800.00	500.00	WP 06/20/92	.00
GROMMIT TO SUPPORT RING	03	0							2573	.00
* 15339	EA	P	1.000	2800.000	.00	.00	2800.00	1000.00	PO 07/01/92	.00
RUBBER GROMMET GR033	04	42							101071	.00
* 15340	EA	P	1.000	2800.000	.00	.00	2800.00	.00		.00
SUPPORTING RING- GALVZD	04	28								.00
* 854820	EA	M	1.000	2800.000	.00	.00	2800.00	1800.00	PC 06/25/92	.00
3 IN COLLAR ROLL BRN	03	0							2453	.00
* 854814	EA	M	1.000	2800.000	.00	.00	2800.00	.00		.00
3 IN COLLAR PIERCE BRN	03	0								.00
* 855397	EA	M	1.000	2800.000	.00	.00	2800.00	.00		.00
3 IN COLLAR BLANK BRN	03	1								.00
* 18236	LB	B	.311	870.800	.00	.00	870.80	.00		.00
025X3 BRN 3003H14	04112									.00

NUMBER OF SHORT COMPONENTS = 18 LONGEST LEAD TIME =112
SHORT COMPONENTS WITHOUT A SCHEDULED RECEIPT FOUND
MAXIMUM THAT CAN BE MADE (FIRST LEVEL): .00
MAXIMUM THAT CAN BE MADE (ALL LEVELS): .00

WORK ORDER NUMBER? E *

```
================================================================
Example of Command LI,398 displaying enhanced supply information
================================================================


FRI, OCT  6, 1995,  4:02 PM                MULTI-LEVEL COMPONENT AVAILABILITY CHECK                                  PAGE:  1
                                           ========================================
                                                    ALLOCATIONS AS OF:12/01/95
PART NUMBER: 855393            ALMN 025 ELBOW WIP-BROWN                        QOH:  1167.000
WORK ORDER :  NONE         WO STATUS:                      QUANTITY:      10.000                DUE DATE: 10/06/95

 PART NUMBER/                          UM SC  QUANTITY  QUANTITY     SO                              QUANTITY      DATE      ON HAND/
 DESCRIPTION                           BC LT   FOR ONE  REQUIRED   DEMAND     PULLED     SHORT      DUE IN      DUE IN      NON-NET
 1-2-3-4-5-6-7-8-9------------------    -- -- ---------  --------- --------- --------- ---------    ---------    --------    --------
*855429                                EA M      1.000     10.000       .00     10.00       .00  |                           1942.00
 ALM 025 20X20 BASE-BRN CSD            03  1                                                    |                              .00
*  855394                              EA M      1.000     10.000       .00       .00     10.00  |                              .00
   TURBINE BASE BRN                    03  1                                                    |                              .00
                                                                                2582            10.00 KT 01/09/95
                                                                              SEQ OPER  W/C        QTY IN  QTY COMP   QTY ISS
                                                                              100 100    10         10.00       .00     10.00
                                                                              200 200    02           .00       .00       .00
*    18238                             LB B      1.000     10.000       .00     10.00       .00  |                            10.00
     0215X20 BRN 3003H14               04112                                                    |                              .00
*    850765                            EA M      1.000     10.000       .00       .00     10.00  |                              .00
     CROWN PLATE BLANK BROWN           04  0                                                    |                              .00
       18238                           LB B       .170      1.700       .00       .00      1.70  |                            10.00
       0215X20 BRN 3003H14             04112                                                    |                              .00
 855884                                EA M      1.000     10.000       .00     10.00       .00  |                           7416.00
 ALMN 050 ANGLE-PLAIN-CNSD             03  1                                                    |                              .00
*  855379                              EA M      1.000     10.000       .00       .00     10.00  |                              .00
   .050 ANGLES TURBINE                 04  1                                                    |                              .00
*    13017                             LB B       .500      5.000       .00      5.00       .00  |                            840.00
     050 4X8 SHEET MF UTILITY          04 84                                                    |                              .00
*856054                                EA M      1.000     10.000       .00       .00     10.00  |                            302.00
 ALM 0215 9X38-3/8 BRN-CNSD            03  1                                                    |                              .00
*  856053                              EA M      1.000     10.000       .00     10.00       .00  |                           1630.00
   9X38 3/8 BRN                        03  1                                                    |                              .00
*    18332                             LB B       .744      7.440       .00      7.44       .00  |                           1115.00
     0215X9 BRN 3003H14                04112                                                    |                              .00
*9992                                  EA P      1.000     10.000       .00       .00     10.00  |                              .00
 LABOUR TO PROD BRN/BLK ELBOW          04  0                                                    |                              .00
                                                  01001      ATLAS MACHINERY        101073          50.00 PO 04/01/92
                                                  01166      FRANELL GROUP INC.     101070        1850.00 PO 06/30/92
                                                  01001      ATLAS MACHINERY        101073          10.00 PO 03/01/93
NUMBER OF SHORT COMPONENTS =  6    LONGEST LEAD TIME =112
SHORT COMPONENTS WITHOUT A SCHEDULED RECEIPT FOUND
MAXIMUM THAT CAN BE MADE (FIRST LEVEL):        .00
MAXIMUM THAT CAN BE MADE (ALL LEVELS) :        .00
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COMMAND (TEST,MG,60)? RE,398                                          *

Component Availability Report - Multiple Assemblies

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


COMPONENT INVENTORY OPTION?
1. STORES LOCATIONS ONLY
2. WIP LOCATIONS ONLY
3. STORES AND WIP LOCATIONS
4. STORES AND WIP LOCATIONS (VIEW NON-NETTABLE)
5. STORES AND NON-NETTABLE
6. STORES, WIP, AND NON-NETTABLE
7. PROMPT FOR SELECTED LOCATIONS
8. PROMPT FOR LOCATIONS TO EXCLUDE
OPTION(3)? 3

AVAILABILITY CALCULATION OPTION:
 1. NO OTHER WO OR SO REQUIREMENTS
 2. WO REQUIREMENTS THRU THE WO START DATE
 3. WO AND SO REQUIREMENTS THRU THE WO START DATE
 4. WO REQUIREMENTS THRU THE CUTOFF DATE
 5. WO AND SO REQUIREMENTS THRU THE CUTOFF DATE
 6. WO, RELEASED FIRM PLANNED WO, AND SO REQUIREMENTS THRU THE CUTOFF DATE
 7. WO, ALL FIRM PLANNED WO, AND SO  REQUIREMENTS THRU THE CUTOFF DATE
OPTION(4)? 4

ALLOCATION CUTOFF DATE? 12/1    *

ASSEMBLY PART NUMBER? 851034           *

QUANTITY? 100

ASSEMBLY PART NUMBER ('E' TO CONTINUE)? 851035           *

QUANTITY? 100

ASSEMBLY PART NUMBER ('E' TO CONTINUE)? 851036           *

QUANTITY? 150

ASSEMBLY PART NUMBER ('E' TO CONTINUE)? E                *

PROCESSING    41 COMPONENTS
PROCESSING    43 COMPONENTS
PROCESSING    35 COMPONENTS
PROCESSING    25 COMPONENTS
PROCESSING    12 COMPONENTS
PROCESSING     2 COMPONENTS

COMMAND (TEST,MG,60)? E                                               *
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************************************************************************
*  Example of the RE,398 multiple assembly component availability report    *
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MULTI-LEVEL COMPONENT AVAILABILITY - MULTIPLE ASSEMBLIES

ALLOCATIONS AS OF:12/01/97

PART NUMBER/ DESCRIPTION 1-2-3-4-5-6-7-8-9	UM BC	SC LT	QUANTITY FOR ONE	QUANTITY REQUIRED	SO DEMAND	PULLED	SHORT	QUANTITY DUE IN	DATE DUE IN	ON HAND/ NON-NET
*855398	EA	M	24.000	2400.000	.00	2400.00	.00	.00		71650.00
TURBINE FINS BRN	03	1								.00
*855428	EA	M	1.000	100.000	.00	100.00	.00	.00		5344.00
ALMN 025 20X20 BASE-CNSND	03	1								.00
*855429	EA	M	2.000	200.000	.00	.00	200.00	.00		1942.00
ALM 025 20X20 BASE-BRN CSD	03	1								.00
*855884	EA	M	5.000	600.000	.00	600.00	.00	.00		7416.00
ALMN 050 ANGLE-PLAIN-CNSD	03	1								.00
*856053	EA	M	1.000	100.000	.00	100.00	.00	.00		1630.00
9X38 3/8 BRN	03	1								.00
*856054	EA	M	1.000	100.000	.00	100.00	.00	.00		302.00
ALM 0215 9X38-3/8 BRN-CNSD	03	1								.00
*9991	EA	P	1.000	350.000	.00	.00	350.00	.00		.00
COMBINATN PROD SCREW PACKAGE	04	0								.00
*9992	EA	P	2.000	250.000	.00	.00	250.00	50.00	PO 04/01/92	.00
COMBINATN PROD BRN/BLK ELBOW	04	0							101073	.00

NUMBER OF SHORT COMPONENTS = 72   LONGEST LEAD TIME =112
SHORT COMPONENTS WITHOUT A SCHEDULED RECEIPT FOUND
MAXIMUM THAT CAN BE MADE (FIRST LEVEL):   .00
MAXIMUM THAT CAN BE MADE (ALL LEVELS) :   .00

THIS REPORT IS FOR THE FOLLOWING ASSEMBLIES:

851034	851035	851036
100.00	100.00	150.00

.00 .00 .00