

iSeries

Adding Removable Media
to your 830 or 840 System Unit,
5074 or 5079 Expansion Unit

Version 5

SENG-4425-01





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Note

Before using this information and the product it supports, be sure to read the "Notices" on page 11 and the "Safety and Environmental Notices" on page iii.

First Edition (July 2000)

This edition applies only to reduced instructions set computer (RISC).

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Safety and Environmental Notices

Danger Notices

A danger notice calls attention to a situation that is potentially lethal or extremely hazardous to people.

DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock. (RSFTD201)

DANGER

To prevent a possible electrical shock when installing the system, ensure that the power cords for all devices are unplugged before installing signal cables. (RSFTD202)

DANGER

To prevent a possible electrical shock when adding or removing any devices to or from the system, ensure that the power cords for those devices are unplugged before the signal cables are connected or disconnected. If possible, disconnect all power cords from the existing system before you add or remove a device. (RSFTD203)

DANGER

To prevent a possible electrical shock from touching two surfaces with different electrical grounds, use one hand, when possible, to connect or disconnect signal cables. (RSFTD004)

Caution Notices

A caution notice calls attention to a situation that is potentially hazardous to people because of some existing condition.

CAUTION:

Telecommunications Statement: This unit contains over-voltage circuits between the ac power outlet and the unit. These circuits meet the standard limits described in International Electrical Commission (IEC) 664, installation category II. It is the customer's responsibility to ensure that the power outlet meets the standards of IEC 664, installation category II. (RSFTC214)

Laser Safety Information

CAUTION:

This product may contain a CD-ROM which is a class 1 laser product. (RSFTC240)

Product Recycling and Disposal

Components of the system, such as structural parts and circuit cards, can be recycled where recycling facilities exist. IBM does not currently collect and recycle used IBM products from customers in the United States other than those products that are involved in trade-in programs. Companies are available to disassemble, reutilize, recycle, or dispose of electronic products. Contact an IBM account representative for more information.

The system unit contains batteries and circuit boards with lead solder. Before you dispose of this unit, these batteries and circuit boards must be removed and discarded according to local regulations or recycled where facilities exist. This book contains specific information on each battery type where applicable.

Battery Return Program

In the United States, IBM has established a collection process for reuse, recycling, or proper disposal of used IBM batteries and battery packs. For information on proper disposal of the batteries in this unit, please contact IBM at 1-800-426-4333. Please have the IBM part number that is listed on the battery available when you make your call. For information on battery disposal outside the United States, contact your local waste disposal facility.

Environmental Design

The environmental efforts that have gone into the design of the system signify IBM's commitment to improve the quality of its products and processes. Some of these accomplishments include the elimination of the use of Class I ozone-depleting chemicals in the manufacturing process, reductions in manufacturing wastes, and increased product energy efficiency. For more information, contact an IBM account representative.

Installation Instructions

You may install removable media device features yourself. It takes approximately one hour to install the hardware. However, if you elect not to install the feature, contact IBM® or an authorized dealer to install the removable media device feature for a fee.

Allow additional time to complete your jobs, to back up your system, and to IPL your system, and to verify your hardware configuration.

When you use these instructions, you will do the following:

- Remove the front cover for the expansion unit.
- Install your new hardware.
- Install the cover.
- IPL your operating system, if you are performing a non-concurrent install.
- Verify your new hardware configuration.

Before you begin

Follow the instructions below before you install your removable media.

- Ensure that you have a current backup of your operating system and licensed programs. If you have backed up the operating system and licensed programs since the last time you applied PTFs, that backup is acceptable.
- Ensure that you take a few minutes to become familiar with these instructions.
- If there are incorrect, missing, or visibly damaged parts, contact one of the following:
 - Your authorized dealer
 - IBM Rochester Manufacturing Automated Information Line (R-MAIL)
 - 1-800-300-8751 (United States)
 - 1-507-253-5242 (worldwide)
- Determine if there are any existing PTF prerequisites before you install your new feature. Go to this Web site and locate your feature number and OS/400® release and check the prerequisites at:

http://as400service.ibm.com/s_dir/slkbases.NSF/

Then do the following to get to the Customer Install Features Prerequisites:

1. Select **All Documents**
2. Select **Collapse**
3. Select **General Information**
4. Select **Offerings**
5. Select **Feature Prerequisites**
6. Select **Customer Install Features Prerequisites**

Installing removable media devices

This procedure gives you the steps you need to install removable media devices in your expansion unit. It will help you to decide between a concurrent removable media device installation and a power down removable media device installation. During a concurrent installation, you do not power down your expansion unit.

If you encounter difficulties during the installation, contact your authorized dealer or service provider.

- ___ 1. Is your main system-unit powered off?
No **Yes**
↓ Go to step 4 on page 6.
- ___ 2. Use the latch that is shown at **A** to open the front cover (Figure 1, 5074, 830 or 840; Figure 2 on page 3, 5079).
- ___ 3. If needed, use the latch that is shown at **B** to remove the front cover.

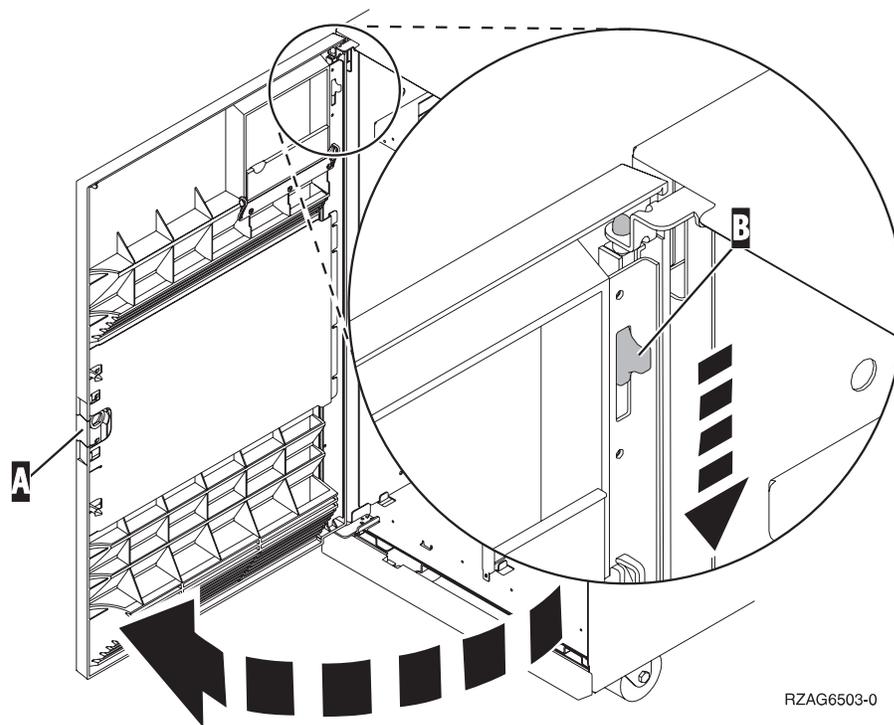
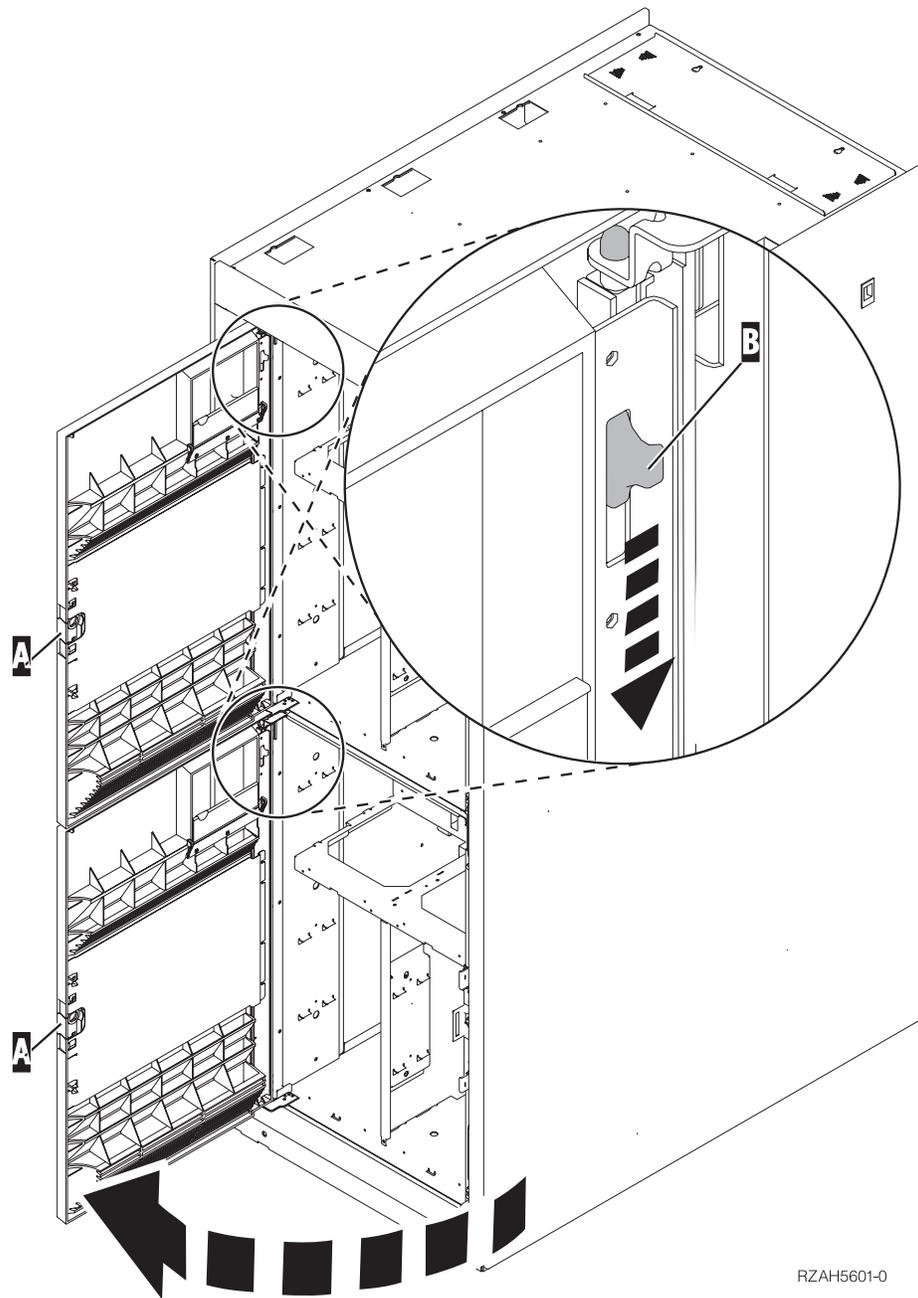


Figure 1. Opening the front cover door (5074, 830, 840)



RZAH5601-0

Figure 2. Opening the front cover door (5079)

- ___ 4. Attach the disposable wrist strap to prevent electrostatic discharge from damaging a device.

Notes:

- a. The 2209 Disposable Wrist Strap is for static control. It will not increase nor decrease your risk of receiving electric shock when using or working on electrical equipment. Follow the same precautions you would use without the wrist strap.
- b. If the disposable wrist strap appears damaged, discard the wrist strap immediately and contact your dealer for a replacement. Do not continue until a new wrist strap is available.

- c. When you unroll the wrist strap, remove the liner from the copper foil at the end.
 - d. Attach the copper foil to an **exposed, unpainted** metal surface on the frame of the expansion unit (electrical ground).
- ___ 5. Be sure you understand the complexity of the steps in “Concurrent procedure (system-unit powered on)” before you begin. If you do not feel comfortable using the concurrent procedure, go to “NonConcurrent procedure (system-unit powered off)” on page 6.

Concurrent procedure (system-unit powered on)

Follow these steps to perform the concurrent install.

Attention: Failure to follow these instructions could result in damage to the removable media device or the system-unit and could result in loss of data.

- ___ 1. If you have not already, sign on with **service tools authority**.
- ___ 2. On an iSeries command line, type: **strsst**. Press Enter.
- ___ 3. Type **your service tools userid and service tools password** on the *System Service Tools (SST) Sign On* display. Press Enter.
- ___ 4. When the *System Service Tools (SST)* display appears, select the **Start a service tool** option.
Press the Enter key.
- ___ 5. When the *Start a Service Tool* menu appears, select the **Hardware service manager** option.
Press the Enter key.
- ___ 6. When the *Hardware Service Manager* menu appears, select the **Packaging hardware resources (system, frames, cards...)** option.
Press the Enter key.
- ___ 7. On the *Packaging Hardware Resources* menu, locate the expansion unit in which you are installing the removable media device.
- ___ 8. Once you locate your expansion unit, look at the *Frame ID* field. (The Frame ID is also displayed on the front of each expansion unit.)
- ___ 9. Write the number that appears in the *Frame ID* field here: _____ .
- ___ 10. Look at the label on the inside of the front cover of the expansion unit indicated in step 9. Find the position where you will be installing your removable media device.
- ___ 11. Write the number that appears in the *Phys* column for your device here: _____ . This number is the Device Position.
- ___ 12. Return to the *Hardware Service Manager* menu by pressing **F3** once.
- ___ 13. At the *Hardware Service Manager* display, select the **Device Concurrent Maintenance** option.
Press the Enter key.
- ___ 14. At the *Specify either Physical Location or Resource Name* field type:
 - a. The number you determined in step 9 for Frame ID.
 - b. The physical location you determined in step 11 for Position.
- ___ 15. Pull out the removable media filler bezel from the location in which you are installing the new device.
- ___ 16. **Attention:** Removable media devices are fragile. Handle with care.
Be sure to use the wrist strap provided. Place one end of the wrist strap around your wrist and connect the opposite end to the expansion unit.

- ___ 17. Find the package that contains the new removable media assembly and remove it from the static-protective package.
- ___ 18. Hold the device with the blue button in the upper right for tape units or lower right for CDs.

Note: Support the bottom of the removable media device as you install it into the expansion unit. Do not hold the removable media device by the blue handle.

- ___ 19. Pull the blue handles out toward you before you install the removable media device into the expansion unit.
- ___ 20. Refer to Figure 3 and support the bottom of the removable media device as you slide it half way into the selected position. Do not push it any further.
- ___ 21. At the *Specify action as* field, select option **Install device**.
- ___ 22. At the *Enter a time value between 00 and 19* field, type **01** for one minute.
- ___ 23. Press the Enter key.

Note: Watch the light on the right side of the removable media devices. When the light comes on and begins to blink rapidly, you have nine seconds to slide the removable media device into place.

- ___ 24. When the light starts blinking, slide the removable media device in until it seats properly. Push both blue handles in at the same time to lock the removable media device into place.

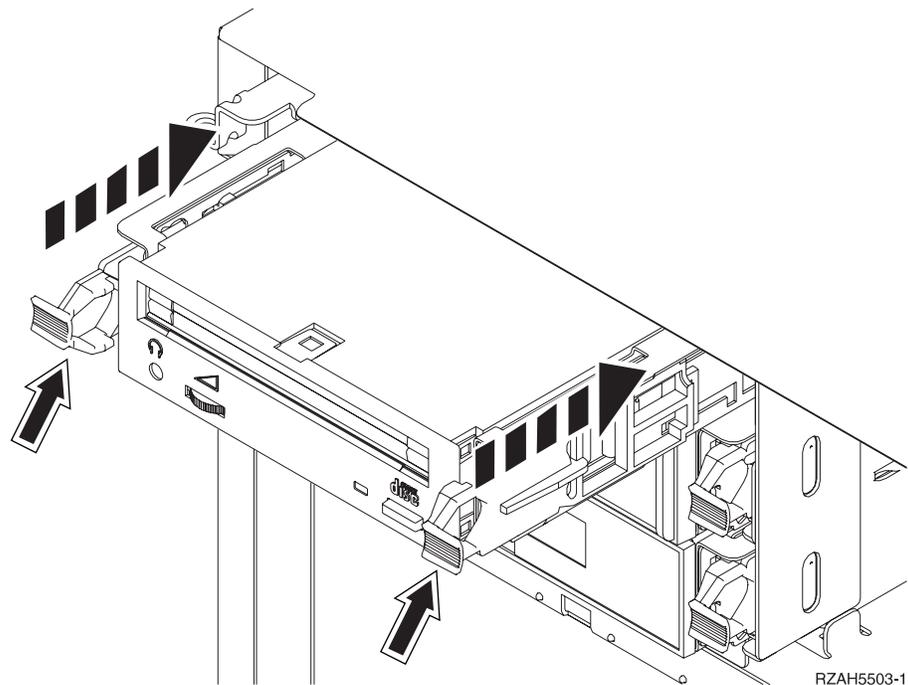


Figure 3. Installing removable media device

- ___ 25. The green light will stop blinking and remain on solid when you properly installed the removable media device.
- ___ 26. Return to the console and wait until the *Concurrent Maintenance Results* display appears.
Press the Enter key.

- ___ 27. When the *Hardware Service Manager* menu appears, select the **Packaging hardware resources (system, frames, cards...)** option.
Press the Enter key.
- ___ 28. On the *Packaging Hardware Resources* menu, enter a **9** in the *Opt* column next to the expansion unit with the new removable media device.
Press the Enter key.
- ___ 29. The *Description* and *Device Type-Model* will be displayed along with the position where your new removable media was installed.
- ___ 30. Press **F3** once to return to the *Hardware Service Manager* display.
- ___ 31. At the *Hardware Service Manager* display, press **F6** to print the configuration list if you have a printer. You or a service representative may refer to the configuration list in the future.
- ___ 32. Install the front cover for the expansion unit.
- ___ 33. Press **F12** twice and press the Enter key to return to the Main menu.

NonConcurrent procedure (system-unit powered off)

- ___ 1. If you have installed logical partitions on your system-unit, refer to the iSeries Information Center. In the iSeries Information Center you can find instructions on powering down a system with logical partitions.
- ___ 2. Ensure that all jobs are complete.
- ___ 3. Type **pwrdownsys *immed** when all jobs are complete. Press Enter.
- ___ 4. When you have completely powered down the system-unit, power off all PCs and devices, such as printers and displays, that are connected to the system-unit.
- ___ 5. Unplug any power cords, such as printers and displays, from electrical outlets.
- ___ 6. Unplug the power cord for the expansion unit from the electrical outlet.
- ___ 7. Use the latch that is shown at **A** to open the front cover (Figure 1 on page 2, 5074, 830, 840; Figure 2 on page 3, 5079).
- ___ 8. If needed, use the latch that is shown at **B** to remove the front cover (Figure 1 on page 2, 5074, 830, 840; Figure 2 on page 3, 5079).
- ___ 9. Attach the disposable wrist strap to prevent electrostatic discharge from damaging a device.

Notes:

- a. The 2209 Disposable Wrist Strap is for static control. It will not increase nor decrease your risk of receiving electric shock when using or working on electrical equipment. Follow the same precautions you would use without the wrist strap.
- b. If the disposable wrist strap appears damaged, discard the wrist strap immediately and contact your dealer for a replacement. Do not continue until a new wrist strap is available.
- c. When you unroll the wrist strap, remove the liner from the copper foil at the end.
- d. Attach the copper foil to an **exposed, unpainted** metal surface on the frame of the Expansion Unit (electrical ground).
- ___ 10. **Attention:** Removable media devices are fragile. Handle with care.
Be sure to use the wrist strap provided. Place one end of the wrist strap around your wrist and connect the opposite end to your system-unit.
- ___ 11. Pull out the removable media filler bezel.

- ___ 12. Find the package that contains the new device and remove it from the static-protective package.
- ___ 13. Hold the device upright and pull both blue handles on both sides of the device toward you.
- ___ 14. Refer to Figure 4 and align the device with the next available slot.
- ___ 15. Hold the device with the blue button in the upper right for tape units or lower right for CDs.

Note: Support the bottom of the removable media device assembly as you slide it into place. Do not hold the device by the blue handles.

- ___ 16. Slide it into the expansion unit until it **stops**.
- ___ 17. Push both blue handles in at the same time to lock the removable media device into place.

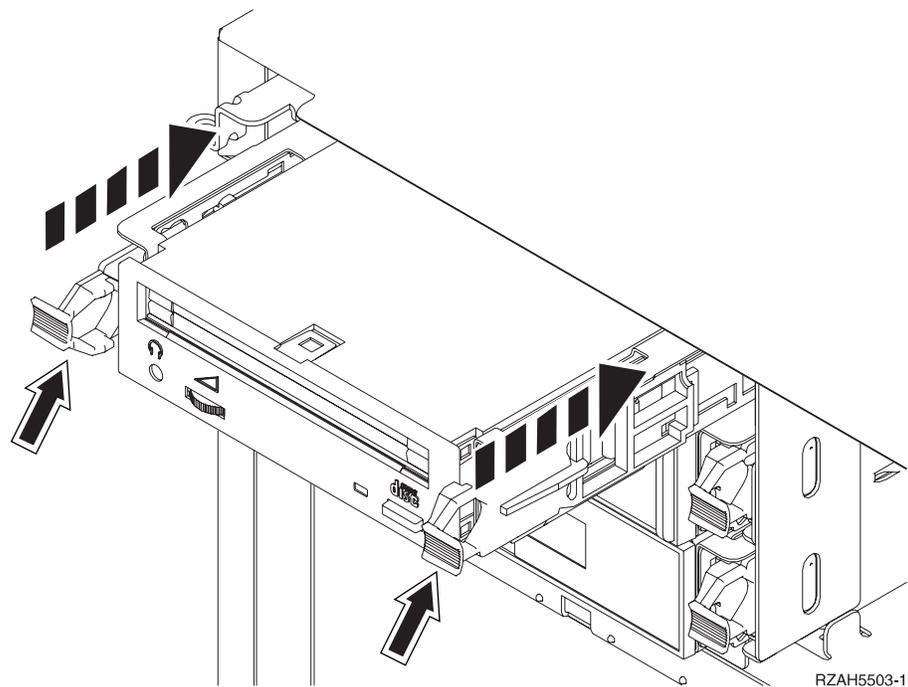


Figure 4. Installing removable media

- ___ 18. Do you have any other devices to install?

No **Yes**

↓

If you have another device such as a tape unit or a CD-ROM drive, refer to the instructions that came with that device.

- ___ 19. Install the front cover on the expansion unit.

DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock. (RSFTD201)

- __ 20. Plug the following power cords into an electrical outlet.
 - Expansion unit
 - System-unit console
 - Printers and displays
- __ 21. Plug in and power on all attached devices, such as printers and displays.
- __ 22. Look at the Function/Data display on the control panel.
- __ 23. Does **01 B V=S** appear in the Function/Data display?

Yes	No
↓ Do the following:	
__ a.	Press the Mode Select button until the Manual indicator (a small hand) lights up.
__ b.	Press the Increment/Decrement push button until 02 appears in the Function/Data display.
__ c.	Press the Enter push button on the control panel.
__ d.	Press the Increment/Decrement push button until B appears in the Function/Data display.
__ e.	Press the Enter push button on the control panel.
__ f.	Press the Increment/Decrement push button until S appears in the Function/Data display
__ g.	Press the Enter push button on the control panel.
__ h.	Press the Mode Select button until the Normal indicator (OK) lights up.
__ i.	Press the Increment/Decrement push button until 01 appears in the Function/Data display.
__ j.	Press the Enter push button on the control panel. 01 B S should appear in the Function/Data display.
- __ 24. Power on the workstation or PC that is console for your system.
- __ 25. Press the power button to power on your system unit.
- __ 26. Sign on the system-unit. Ensure that you have service tools authority.
- __ 27. Do the following to verify your removable media device configuration:
 - __ a. On a command line, type: **strsst**. Press the Enter key.
 - __ b. Type **your service tools userid and service tools password** on the *System Service Tools (SST) Sign On* display.
 - __ c. When the *System Service Tools (SST)* display appears, select the **Start a service tool** option.
Press the Enter key.
 - __ d. When the *Start a Service Tool* display appears, select the **Hardware service manager** option.
Press the Enter key.
 - __ e. When the *Hardware Service Manager* display appears, select the **Packaging hardware resources (system, frames, cards...)** option.

Press the Enter key.

- ___ f. On the *Packaging Hardware Resources* display, enter a **9** in the *Opt* column next to the expansion unit with the new removable media device.
- ___ g. The *Description* and *Device Type-Model* will be displayed along with the position where your new removable media was installed.
- ___ h. Press **F3** once to return to the *Hardware Service Manager* display.
- ___ i. If you have a printer, print the configuration list.

Note: To print the hardware resources list, press F6 twice.

- ___ j. Press **F12** twice and press the Enter key to return to the Main menu.

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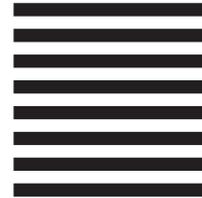
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