Notice

EXPANSION BASE

Reference Guide

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SETTING UP THE EXPANSION BASE

NOTE: This expansion base is *not* compatible with the Armada 1000, 3000, 4000, 6000, 7000, or V series portable computers.

Identifying External Components

Top and Front Components
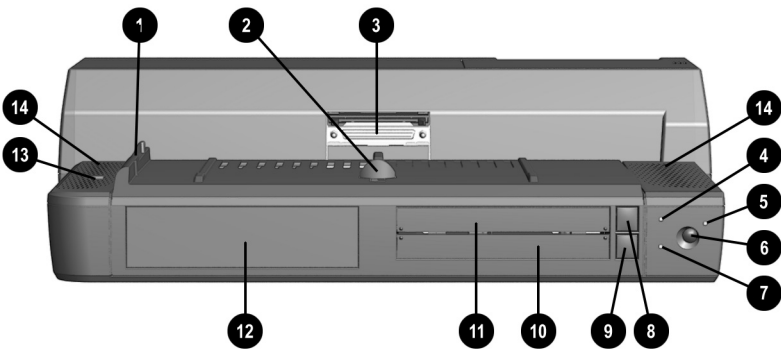
Top and Front Components

Component	Function
❶ Alignment guides	Align the computer onto the expansion base.
❷ Retaining latch	Secures the computer to the expansion base.

Continued

Top and Front Components, *continued*

Component	Function
❸ Docking connector	Connects the computer to the expansion base.
❹ Top MultiBay light	On: A drive in the top MultiBay is being accessed.
❺ Power/suspend light	On: The expansion base is on.
	Blinking: The expansion base is in Suspend.
❻ Suspend button	Initiates and exits Suspend.
❼ Bottom MultiBay light	On: A drive in the bottom MultiBay is being accessed or a battery pack in the bottom MultiBay is charging or waiting to be charged.
	Blinking: A battery pack in the bottom MultiBay has reached a low-battery condition.
❽ Top MultiBay release button	Releases a drive from the top MultiBay.
❾ Bottom MultiBay release button	Releases a drive from the bottom MultiBay.
❿ Bottom MultiBay	Supports a removable DVD-ROM drive, CD-ROM drive, diskette drive, SuperDisk LS-120 drive, hard drive, or an extra battery pack.
⓫ Top MultiBay	Supports a removable DVD-ROM drive, CD-ROM drive, SuperDisk LS-120 drive, or hard drive.
⓬ Half-height bay	Supports an optional industry standard half-height device.
⓭ Monitor support cover recess	Supports the front leg of the monitor support cover.
⓮ Stereo speakers (2)	Produce stereo sound.

Right Side Components
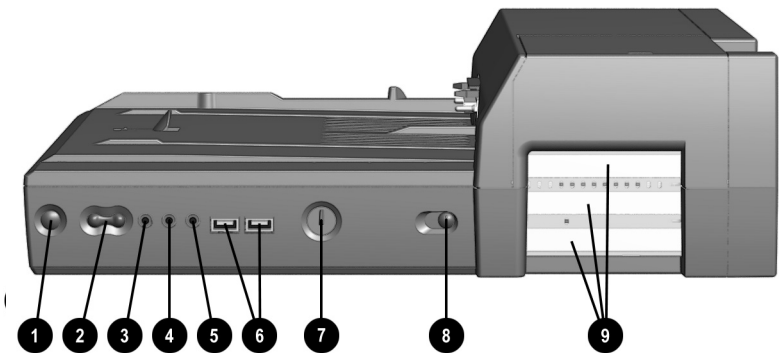
Right Side Components

Component	Function
❶ Computer eject button	Disconnects the computer from the expansion base docking connector.
❷ Volume control switch	Adjusts or mutes the volume of the stereo speakers or audio equipment. To mute, press between the **-** and **+** symbols.
❸ Stereo speaker/ headphone jack	Connects stereo speakers, headphones, or a headset.
❹ Microphone jack	Connects a single sound channel microphone. The sound plays from both expansion base speakers.
❺ Line-in jack	Connects a CD player, tuner, or tape deck. The sound plays in stereo from both expansion base speakers.
❻ USB connectors (2)	Connect universal serial bus (USB) devices.
❼ Keylock	Locks the computer to the expansion base and disables the automatic docking mechanism.
❽ Power button	Turns the system (expansion base and computer) on and off.
❾ PCI card slots	Area for installed expansion board connectors.

Rear Components
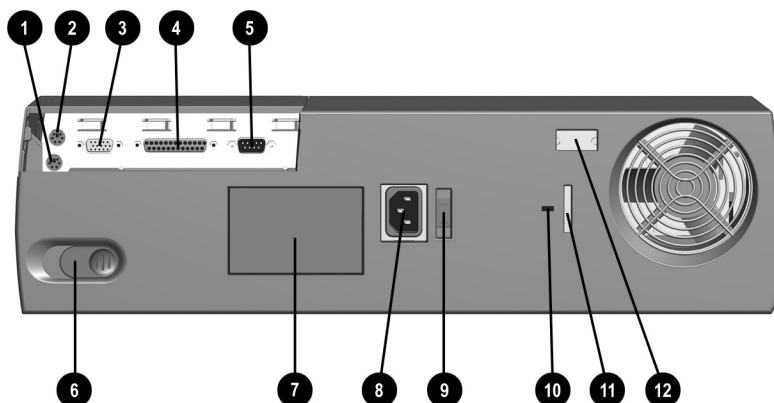
Rear Components

Component	Function
❶ Keyboard connector	Connects an external keyboard.
❷ Mouse connector	Connects a PS/2-compatible external mouse.
❸ Serial connector	Connects a serial device such as a printer or mouse.
❹ Parallel connector	Connects a parallel device such as a printer.
❺ External monitor connector	Connects an external monitor.
❻ Rear panel release latch	Releases the rear panel.
❼ Voltage switch label	Shows the voltage selections.
❽ Power connector	Connects the expansion base to AC power.
❾ Voltage select switch	Sets the expansion base to run on 115 VAC or 230 VAC voltage.
❿ Security cable slot	Attaches an optional security cable lock to secure the expansion base to a fixed object.
⓫ U-bolt	Attaches an optional heavy-duty cable and lock to secure the expansion base to a fixed object.
⓬ Monitor latch slot	Attaches the rear latch of the monitor support cover.

Selecting the Voltage

Be sure to select the voltage for your country with the voltage
select switch.

⚠ **CAUTION:** Ensure that the voltage select switch is in the correct
position (115 VAC or 230 VAC). Failure to do so results in damage to
the equipment.
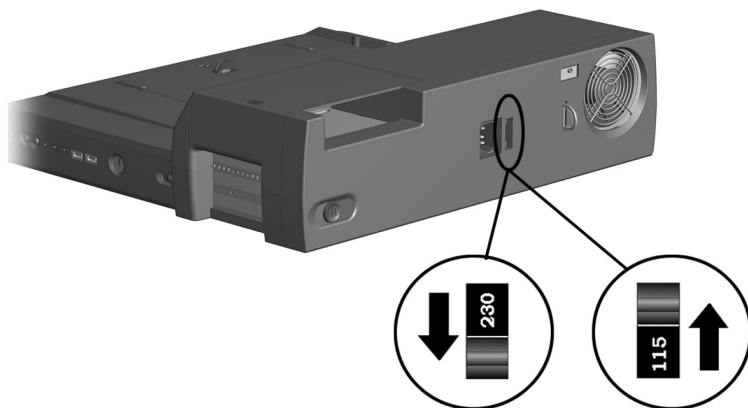
Connecting External Equipment

In addition to reading this section, refer to the documentation included with the external equipment.

1. If the computer is docked, shut down the computer and turn off the external equipment that you want to connect.
2. Remove the connector cover ❶.
3. Connect the external equipment cable to the corresponding connector on the expansion base ❷.
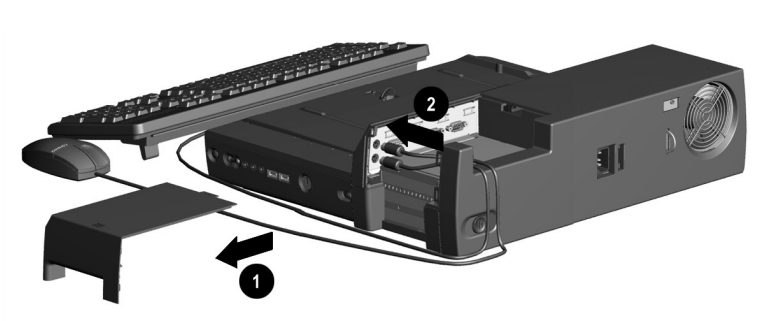
4. Replace the connector cover.
5. If applicable, plug the power cord of the new equipment into a grounded electrical outlet.

Using the Monitor Support Cover

If you are using a monitor support cover, you can place the external monitor directly over your computer.

> ⚠ **WARNING:** To avoid the risk of personal injury or structural damage to the monitor support cover or expansion base, do not place monitors with unstable bases or monitors heavier than 75 pounds (45 kilograms) on the monitor support cover. If you are using a monitor with an unstable base or one that is heavier than 75 pounds, place it on a work surface next to the expansion base.

1. Place the monitor support cover front leg into the monitor support cover recess ❶ in the front of the expansion base. Push the rear monitor support cover latch into the monitor latch slot ❷ until it *snaps* into place.

   NOTE: If the monitor support cover latch is not level with the base of the monitor support cover, the monitor support cover is not latched securely.
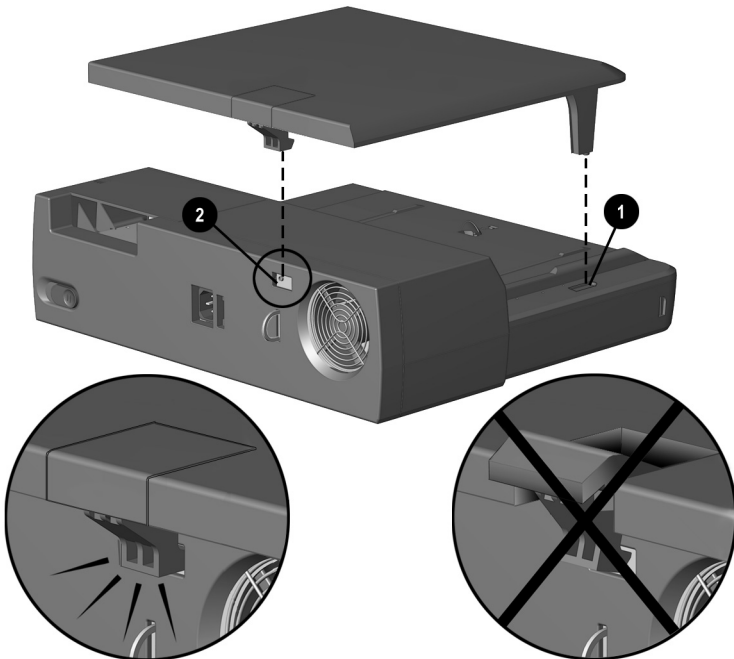
2. Make sure that the power switch on the external monitor is turned off.

3. Connect the monitor cable to the external monitor connector on the rear panel of the expansion base.

4. Place the base of the external monitor on the flat area in the center rear of the monitor support cover.

5. Plug the monitor power cord into a grounded electrical outlet.

Connecting the Power Cord

1. Plug the power cord into the expansion base power connector.

2. Plug the pronged end of the power cord into a grounded electrical outlet.

   NOTE: If you are connecting the expansion base in Japan, you must first plug the 3-prong power cord into a 3-to-2-prong plug adapter, then plug the adapter into a grounded electrical outlet.
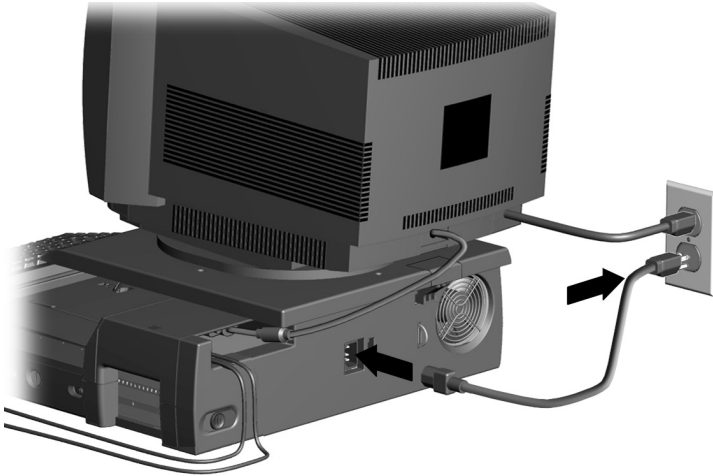
NOTE: When the computer is not docked in the expansion base, the power switch on the right side of the expansion base moves if pushed, but the switch is not functional.

Connecting to a LAN (Local Area Network)

To connect to a LAN through the expansion base, you must have:

■ A PCI network interface card (NIC) installed in the expansion base.

■ An unshielded twisted pair cable with RJ-45 jacks at each end. Request the cable from your network administrator or Compaq authorized dealer, reseller, or service provider.

> **WARNING:** To reduce the risk of electrical shock, fire, or damage to the device, do not plug a telephone cable into the Ethernet RJ-45 jack.

To connect to a LAN through the expansion base:

1. Plug the network cable into the NIC RJ-45 jack on the right side of the expansion base.

2. Plug the other end of the network cable into the network jack.

NOTE: Be sure both jacks are seated.

Inserting PC Cards

If your expansion base contains a PCI CardBus Reader, you must insert the PC Card *label side down* into the PC Card slot. For more information about using PC Cards, see the guide that came with your computer.

Customizing the System

The total number of devices in the system depends on your computer MultiBay device support.

Device Support

Device	Quantity Supported	Computer Primary Hard Drive Bay	Computer MultiBay Location(s)	Expansion Base MultiBay Location(s)	Computer Battery Bay
Hard Drive	5	1	2 (top and bottom)	2 (top and bottom)	
CD-ROM Drive	4		2 (top and bottom)	2 (top and bottom)	
Diskette Drive	2		1 (bottom)	1 (bottom)	
SuperDisk LS-120	2		1 (top or bottom)	1 (top or bottom)	
Half-Height Drive	1			1 (half-height bay)	
Battery Pack (12.7mm)	3		1 (bottom)	1 (bottom)	1

chapter 2

DOCKING AND UNDOCKING

Docking the Computer

⚠ **WARNING:** Misuse of your personal computer or failure to establish a safe and comfortable workstation may result in discomfort or serious injury. Refer to the computer *Safety & Comfort Guide* for more information on choosing a workspace and creating a safe and comfortable work environment.

⚠ **WARNING:** To avoid the risk of personal injury, keep fingers and hands away from the rear of the computer when docking.

IMPORTANT: If you plan to leave the computer docked for an extended period without using it, shut down the system.

NOTE: It is necessary to connect an external keyboard and mouse when using the computer in the expansion base.

1. Prepare the computer for docking:

    ■ **If the computer is running Microsoft Windows 95, Microsoft Windows 98, or Microsoft Windows 2000 Professional**—The computer can be docked while it is on, off, or in Suspend, but not while it is in Hibernation. If the computer is in Hibernation, exit Hibernation by pressing the suspend button, sliding the power switch, or pressing **Fn +** the suspend button.

    ■ **If the computer is running Microsoft Windows NT Workstation 4.0**—Turn off the computer before docking by selecting Start > Shut Down Windows > Shut down.

2. Turn off and disconnect external equipment connected to the computer.

3. Make sure that the power cord is plugged into the expansion base and into a grounded electrical outlet.

4. Close the computer (optional, if the monitor support cover is not installed on the expansion base).

5. If your computer has a mobile expansion unit, connect it to the computer.

6. Slide the computer into the expansion base along the *left* alignment guide ❶.

7. Push the computer toward the rear of the expansion base ❷ until the docking connectors on the computer and the expansion base come into contact and the automatic docking mechanism pulls the computer into a complete connection.
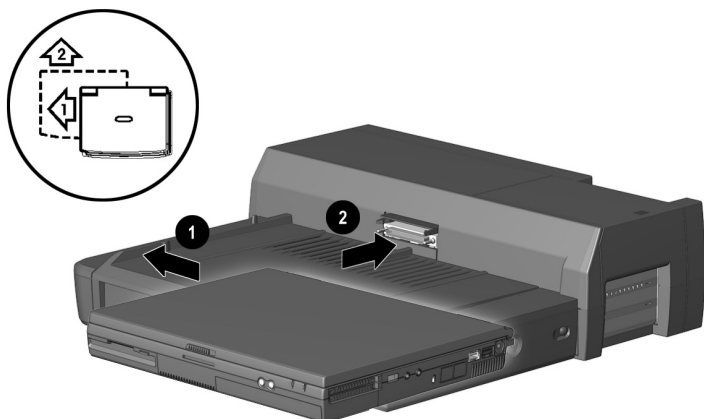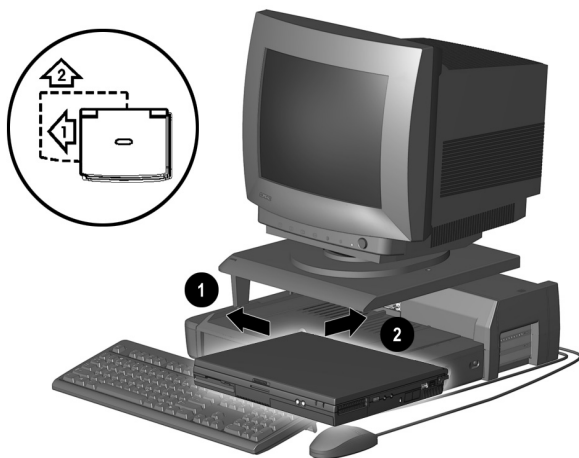
8. If the monitor support cover is not installed, open the computer display ❸.
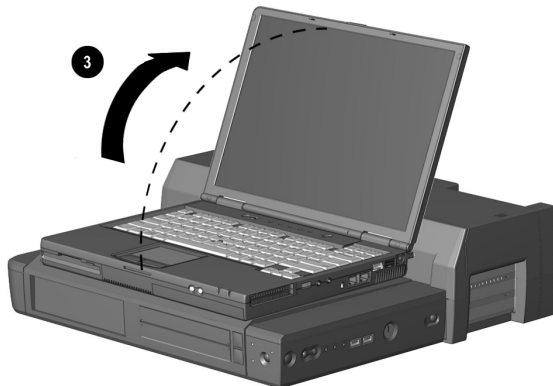
9. Optional: Lock the keylock that secures the computer to the expansion base.

Turning On the System

1. Turn on external equipment connected to the expansion base.
2. Turn on the system (computer and expansion base) by using the power switch on the expansion base or the power switch on the computer.

The expansion base remains on whenever the power cord is connected to the expansion base and an electrical outlet.

Using the Expansion Base Suspend Button

■ When the system is off, pressing the suspend button turns the system on.
■ When the system is on, pressing the suspend button initiates Suspend.
■ When the system is in Suspend, pressing the suspend button exits Suspend.

Using the Expansion Base Power/Suspend Light

When the power/suspend light is
■ On, the system is on.
■ Blinking, the system is in Suspend.
■ Off, the system is either off or in Hibernation.

Undocking the Computer

Undocking Automatically

1. Turn off and disconnect external equipment connected directly to the computer.

2. If the computer is open, close it.

3. If the expansion base is locked, unlock the keylock.

4. Prepare the computer for undocking:

   ■ **If the computer is running Windows 95, Windows 98, or Windows 2000 Professional**—The computer can be undocked while it is on, off, or in Suspend, but not while it is in Hibernation. If the computer is in Hibernation, exit Hibernation by pressing the suspend button, sliding the power switch, or pressing **Fn +** the suspend button.

   ■ **If the computer is running Windows NT 4.0**—Turn off the computer before undocking by selecting Start > Shut Down Windows > Shut down.

5. Press the computer eject button on the expansion base.

6. When the automatic undocking process is complete, slide the computer out of the expansion base.
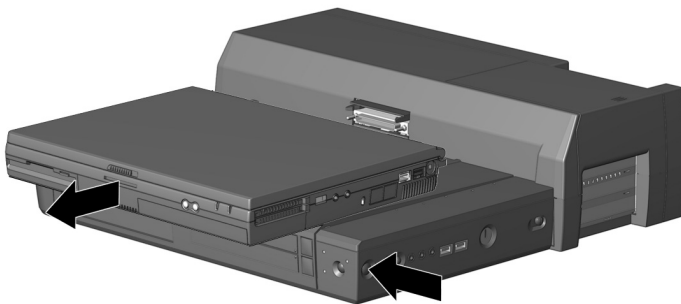
Undocking Manually

The automatic undocking mechanism requires electricity. If power becomes unavailable to the expansion base while the computer is docked, you can release the computer from the expansion base by using the manual release button behind the rear panel of the expansion base.

Before You Begin

1. Shut down the computer.
2. Remove the external monitor and monitor support cover, if in place.
3. If the expansion base is locked, unlock the keylock.
4. Turn off and disconnect the external equipment.
5. Disconnect the power cord.

Removing the Rear Panel

1. Position the expansion base so that the rear panel is facing you.
2. Remove the connector cover.
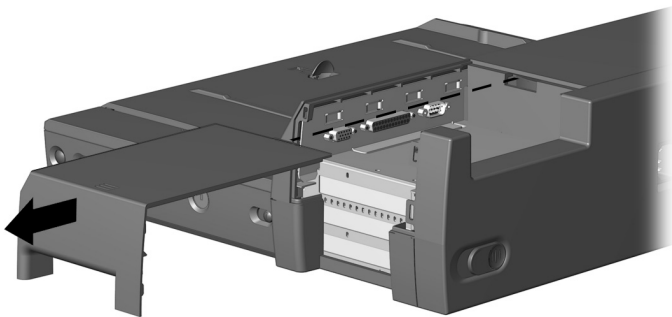
3. Slide the rear panel release latch left to the open position.
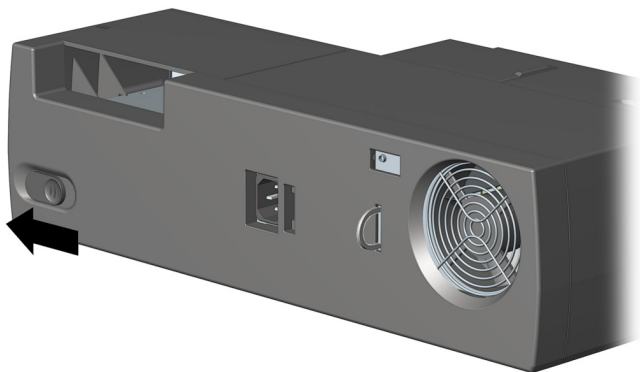
4. Using both hands, grasp the bottom edge of the rear panel and swing the bottom out and up until it disengages.
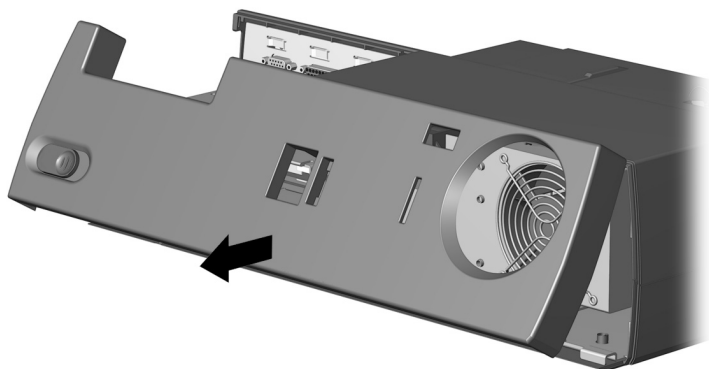
5. Lift the rear panel up and off from the expansion base.

6. Slide the manual release button to the right.
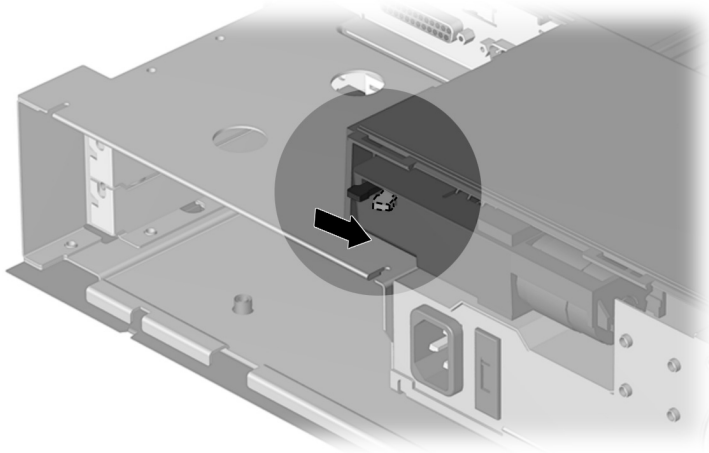
7. Slide the computer out of the expansion base.

8. Replace the rear panel by inserting the tabs on the top of the rear panel into the slots on the top cover and chassis. When the tabs are in the slots, pivot the bottom of the rear panel downward until it is seated.

9. Secure the rear panel by moving the rear panel release latch right to the closed position.

10. Replace the connector cover by sliding it back into place.

11. Reconnect the power cord and external equipment cables to the expansion base.

chapter 3

SECURING THE SYSTEM

Using the Keylock

Two identical security keys are attached to the U-bolt at the rear of the expansion base. The second key is provided as a spare.

When the expansion base is locked with its key while the computer is docked, the system is secured as follows:

■ The computer is secured to the expansion base and the automatic docking mechanism is disabled.

■ Access to removable devices in the computer is unavailable.

■ The MultiBay release buttons are locked, which prevents the removal of MultiBay devices in the expansion base. (A medium, such as a diskette or CD-ROM inserted in a MultiBay device, is not secured.)

■ The rear panel release latch is disabled, which prevents the removal of the expansion base rear panel. This denies access to

❑ PCI expansion board(s) installed in the expansion base.

❑ The manual release button, which manually disconnects the computer from the expansion base.

Locking and Unlocking the System

1. Insert the key into the keylock.

2. Turn the key 120 degrees *clockwise* to lock the system. Turn the key 120 degrees *counterclockwise* to unlock the system.
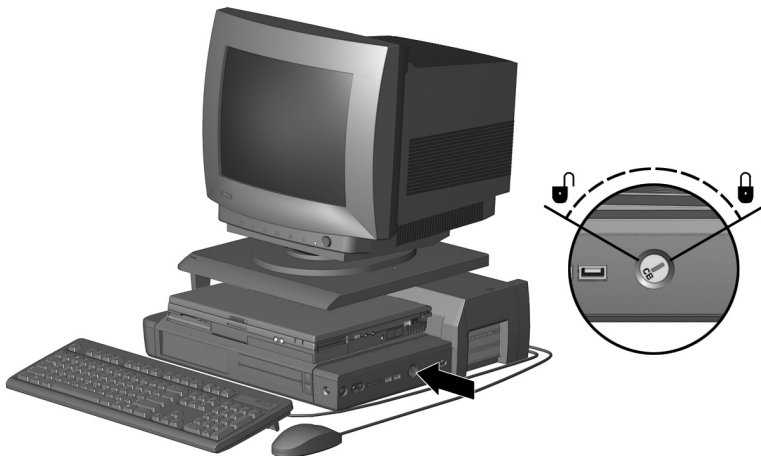
Expansion Base Key and Keylock Replacement

A two-letter code identifies your keys. It appears on both keys and the keylock. To replace a lost or stolen key, contact the Fort Lock Corporation:

Fort Lock Corporation
Attn: Replacement Lock Department
3000 North River Road
River Grove, IL 60171
708-456-1100

Supply the two-letter key code and your key will be replaced.

To replace the keylock assembly and obtain a different key, contact your Compaq authorized dealer, reseller, or service provider.

Connecting Security Cables

The security cable slot on the right side of the expansion base can be used to attach an optional security cable lock. To obtain a security cable lock, contact your Compaq authorized dealer, reseller, or service provider.

The U-bolt on the metal frame of the expansion base can be used to attach a heavy-duty cable of your choice.

Connecting a Cable to the Security Cable Slot

1. Loop the cable around the fixed object to which you want to secure the expansion base.

2. Insert the cable lock end of the cable through the loop end of the cable.

3. Insert the cable lock into the security cable slot.

4. Lock the cable lock with its key.
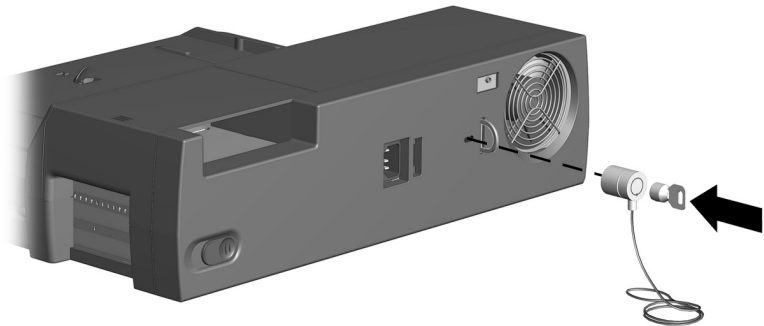
Connecting a Cable to the U-Bolt

1. Loop the cable around the fixed object to which you want to secure the expansion base.

2. Put one end of the cable through the U-bolt.

Lock the ends of the cable together using a locking device attached to the cable or a padlock.

chapter 4

USING MULTIBAY AND HALF-HEIGHT DRIVES

Using MultiBay Drives

The Dual MultiBay supports the following drive sizes:

17-mm drive—Fills both MultiBays

or

12-mm drive—One each in the top and bottom MultiBays
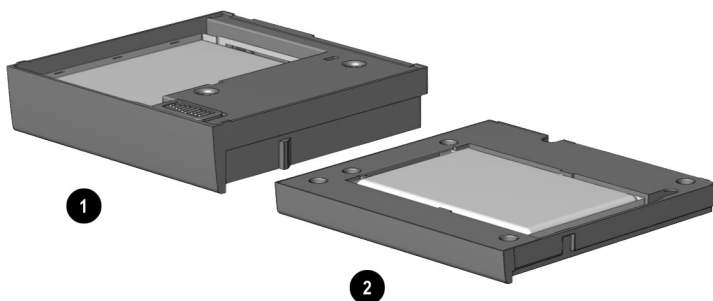
Selecting a MultiBay Drive Adapter

- A 12.7-mm or 17-mm hard drive must be placed in an adapter before the drive can be used in a MultiBay.

- A 12.7-mm drive other than a hard drive can be inserted into the top or bottom MultiBay without an adapter.

Selecting a MultiBay Drive Adapter

To insert this drive	Into this MultiBay	Use this adapter
17-mm Armada hard drive	MultiBay (fills both top and bottom MultiBays)	Dual-MultiBay Hard Drive Adapter
12.7-mm Armada hard drive	Top or bottom MultiBay	12.7-mm Armada MultiBay hard drive adapter
	MultiBay (fills both top and bottom MultiBays)	Dual-MultiBay Hard Drive Adapter
12.7-mm Armada drive other than a hard drive	Top or bottom MultiBay	None

Inserting a Hard Drive into a Hard Drive Adapter

A hard drive must be placed in an adapter before the drive can be used in the MultiBay. Refer to the guide that came with your computer for instructions on inserting the drive in its adapter.

Inserting or Removing a MultiBay Drive

⚠ **CAUTION:** Support for the insertion or removal of MultiBay drives while the computer is on, in Suspend, or in Hibernation varies by operating system. To prevent damage to the computer and the drive and loss of work, follow the instructions below before inserting or removing any drive.

1. If the system is on or in Suspend or Hibernation, prepare the system or the drive for the insertion or removal as required by your operating system:

   ■ **Windows 95 or Windows 98 (factory installed)**—Shut down the system before inserting or removing a *hard drive.*

   ■ **Windows NT 4.0 (factory installed)**—Shut down the system before inserting or removing *any drive.*

   ■ **Windows 2000 Professional**—If you are removing a *hard drive,* use the Unplug or Eject Hardware utility to turn off the drive before you remove it.

   ■ **Windows 95 or Windows 98 (retail version without software enhancements from Compaq)**—Shut down the system before inserting or removing *any drive.*

   NOTE: For information about obtaining Compaq software enhancements for a retail version of Windows 95 or Windows 98, visit the Compaq website at http://www.compaq.com or contact your Compaq authorized dealer, reseller, or service provider.

2. If the expansion base is locked, unlock the keylock.

3. Remove any media from the drive.

4. Insert or remove the drive or drive assembly (a drive inserted in an adapter):

■ **To insert a drive or drive assembly**—With the connector facing the computer, slide the drive or drive assembly into the MultiBay until it is seated.

NOTE: Align a 17-mm drive assembly, which fills both the top and bottom MultiBays, as if you are inserting it into the bottom MultiBay.

This illustration shows the insertion of a 17-mm drive into the Dual MultiBay.
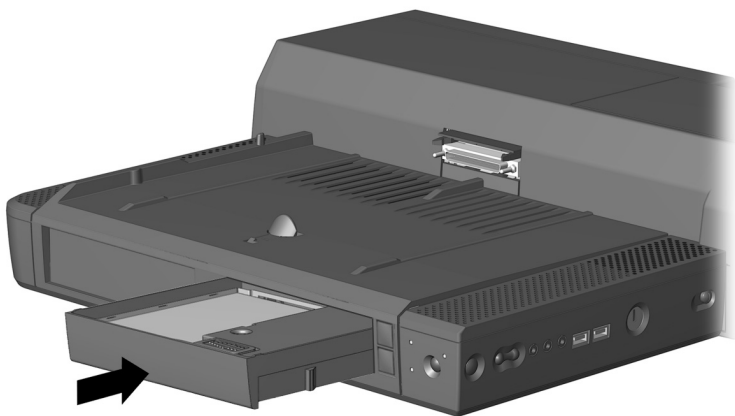
■ **To remove a drive or drive assembly—**

❏ **If the drive is in the top MultiBay,** push the *top* MultiBay release button   and pull the drive out of the MultiBay .

❏ **If the drive is in the bottom MultiBay or is filling both the top and bottom MultiBays,** push the *bottom* MultiBay release button and pull the drive out of the MultiBay.

This illustration shows the removal of a 12-mm drive from the top MultiBay.
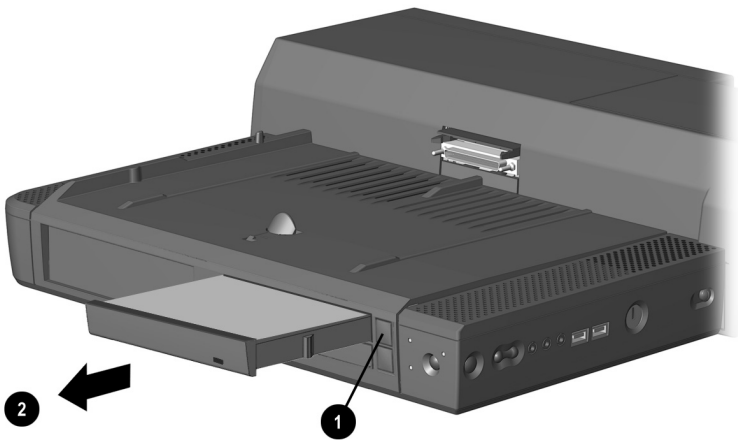
Using a Half-Height Drive

The left bay is an industry standard half-height bay. This bay accommodates a standard 5.25-inch (13.34-cm) half-height drive.

Installing a Half-Height Drive

In addition to the information in this section, refer to the documentation included with the drive.

NOTE: Use slotted Torx T-10 and T-15 screwdrivers.

Before You Begin

1. Shut down the computer.
2. Remove the external monitor and monitor support cover, if they are being used.
3. If the expansion base is locked, unlock the keylock.
4. Undock the computer.
5. Turn off and disconnect external equipment.
6. Disconnect the power cord.

Removing the Rear Panel

1. Position the expansion base so that the rear panel is facing you.
2. Remove the connector cover.
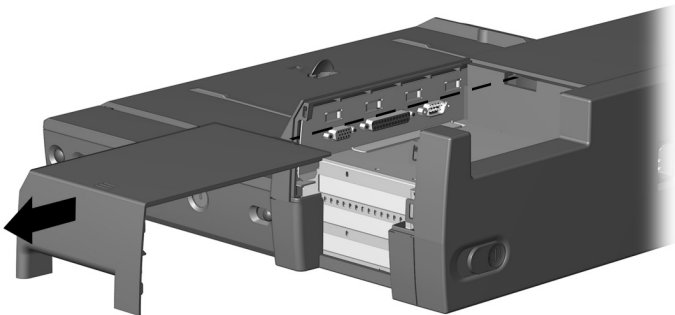
3. Slide the rear panel release latch left to the open position.

4. Using both hands, grasp the bottom edge of the rear panel and swing the bottom out and up until it disengages.

5. When you feel the rear panel detach from the top cover of the expansion base, lift it up and off.

Removing the Top Cover

<table>
<tr>
<td>⚠</td>
<td>CAUTION: Electrostatic discharge (ESD) can damage electronic components. Before beginning this procedure, ensure that you are properly grounded. For more information, refer to Appendix B, "Electrostatic Discharge."</td>
</tr>
</table>

1. Position the expansion base so that the front is facing you.

2. Peel back and remove the label from the alignment tray ❶.

3. Remove the screw behind the retaining latch ❷.

4. Remove the alignment tray by pulling the retaining latch up and forward ❸.
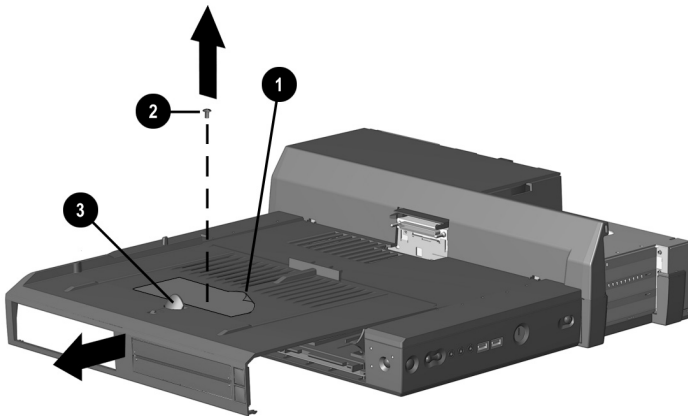
5. Remove the five screws from the top cover.
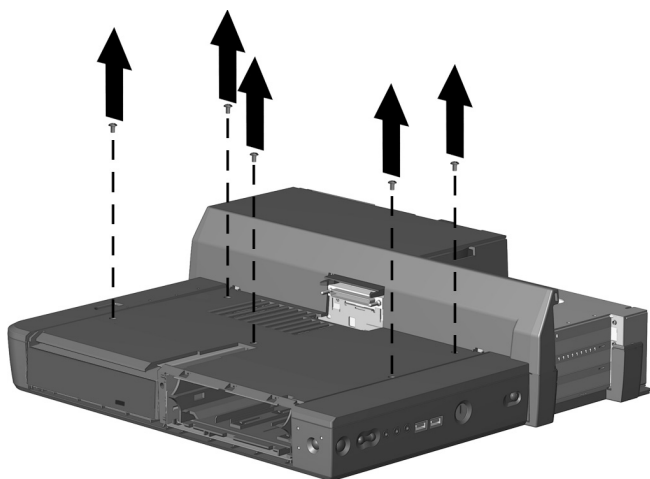
6. Using both hands, grasp the top outside edges of the top cover.

7. Lift the back edge of the top cover and swing it forward so that it pivots off the expansion base along the front edge.
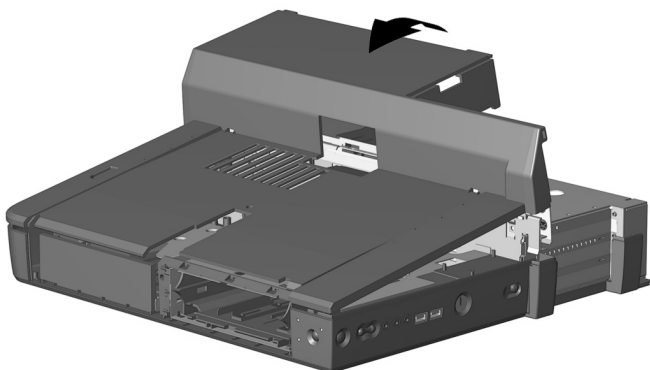
Removing the Drive Cage

1. Remove the three screws securing the drive cage to the expansion base.
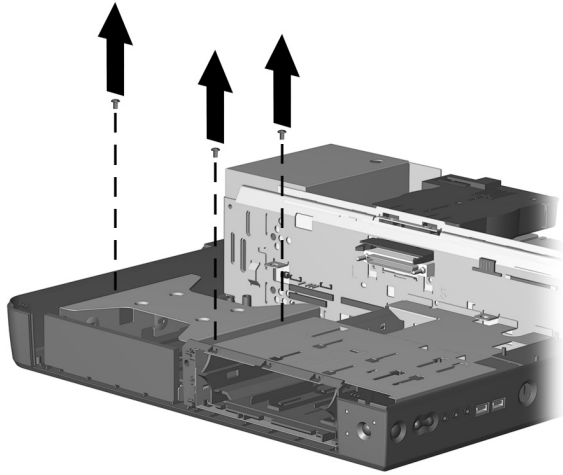
2. Lift the drive cage out of the expansion base.
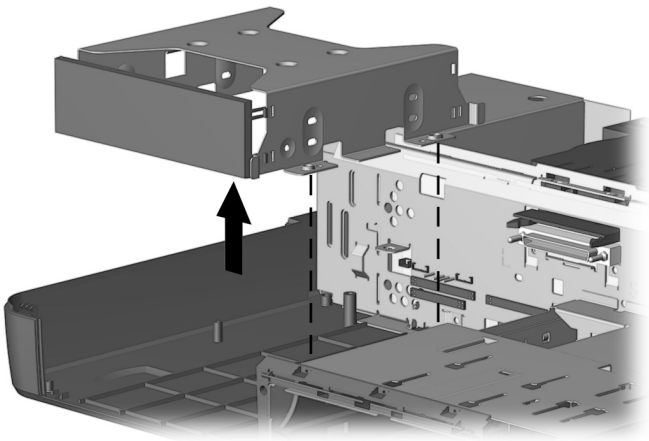
Inserting the Half-Height Drive into the Drive Cage

1. Remove the half-height bay blank bezel from the front of the drive cage by pressing in on the tabs holding the bezel to the drive cage. This bezel will be replaced by the front of the half-height drive.

   NOTE: Retain this bezel. You will need it if you remove and do not replace the half-height drive you are installing.
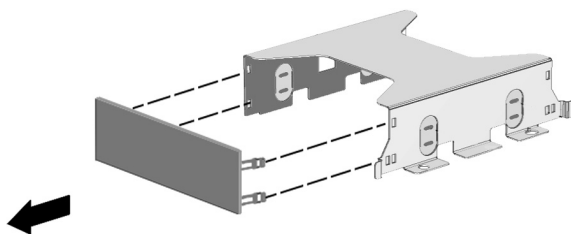
2. If installed, remove the four screws from the drive (two screws on each side).
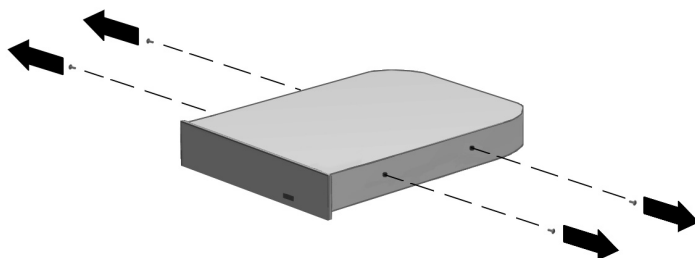
3. Place the drive cage over the half-height drive.

4. Attach the drive cage to the half-height drive by inserting the four screws loosely through the drive cage and into the half-height drive.

   NOTE: Two sets of screw holes are provided on each side of the drive cage. Select the pairs of holes that match the holes in the sides of the half-height drive.

5. Align the front cover of the half-height drive with the front edge of the tab on the inside edge of the drive cage.
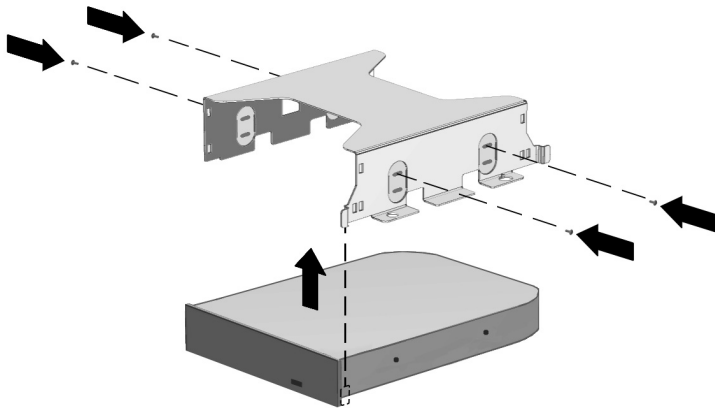
6. Tighten the four screws that secure the drive cage to the half-height drive.

Inserting the Drive Cage Assembly into the Expansion Base

1. Attach the cables on the back of the half-height drive to the connectors on the expansion base. Refer to the documentation included with the half-height drive for information on expansion base connectors.

2. Align the base tabs on the right side of the drive cage with the ribs on the bottom of the expansion base.
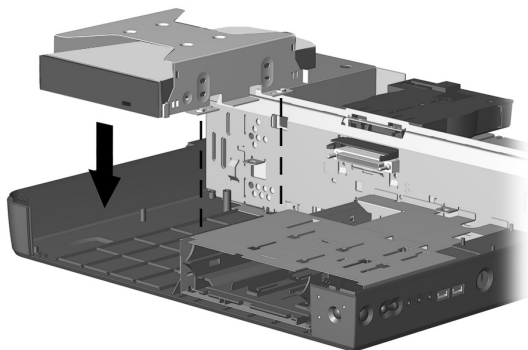
3. Place the drive cage assembly on the bottom of the expansion base.

4. Replace the three screws that secure the drive cage to the expansion base.
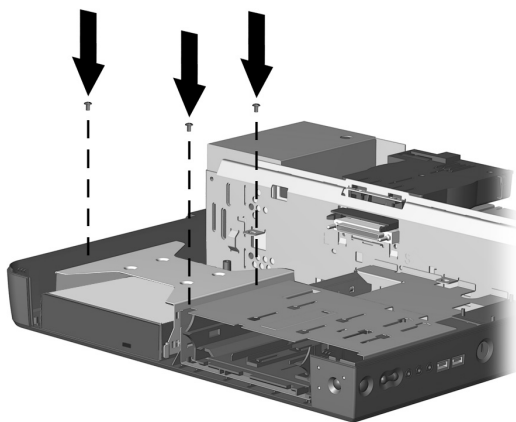
Replacing the Top Cover

1. Replace the expansion base top cover by aligning its two front corners with the two front corners of the expansion base. Then push down in the center of the top cover assembly until it is seated.

2. Replace the five screws on the top cover.
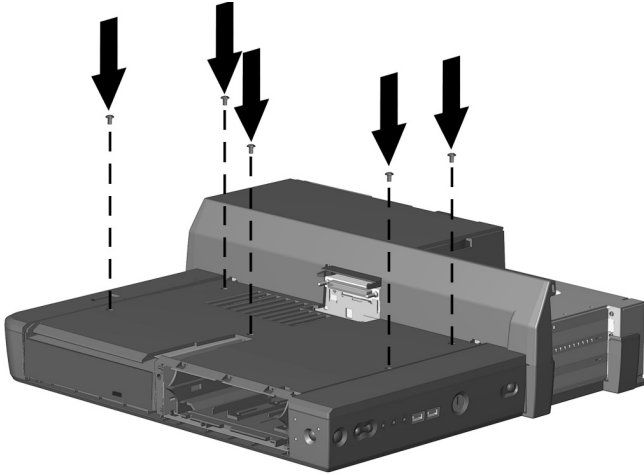
3. Replace the alignment tray by sliding it straight back until it clicks into place.

4. Replace the screw ❶ behind the retaining latch ❷.

NOTE: Compaq recommends you replace the label after replacing the alignment tray.
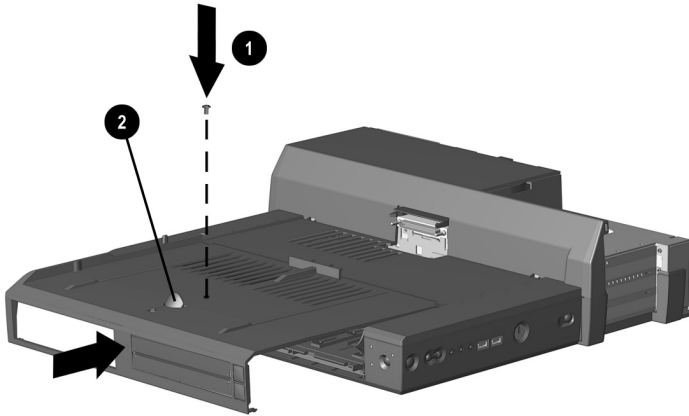
Replacing the Rear Panel

1. Position the expansion base so that its rear panel is facing you.

2. Replace the rear panel by inserting the tabs on the top of the rear panel into the slots in the top cover. When the tabs are in the slots, pivot the bottom of the rear panel downward until it is seated.

3. Slide the rear panel release latch to the closed position.

4. Replace the connector cover.

5. Reconnect the external equipment cables and power cord to the expansion base.

Removing a Half-Height Drive

NOTE: Use slotted Torx T-15 and T-10 screwdrivers.

1. Follow the procedures described under "Before You Begin," "Removing the Rear Panel," and "Removing the Top Cover" in "Installing a Half-Height Bay Drive" earlier in this chapter.

⚠ **CAUTION:** Electrostatic discharge (ESD) can damage electronic components. Before beginning this procedure, ensure that you are properly grounded. Refer to Appendix B, "Electrostatic Discharge."

2. After you have removed the top cover, remove the three screws securing the metal drive cage to the expansion base.
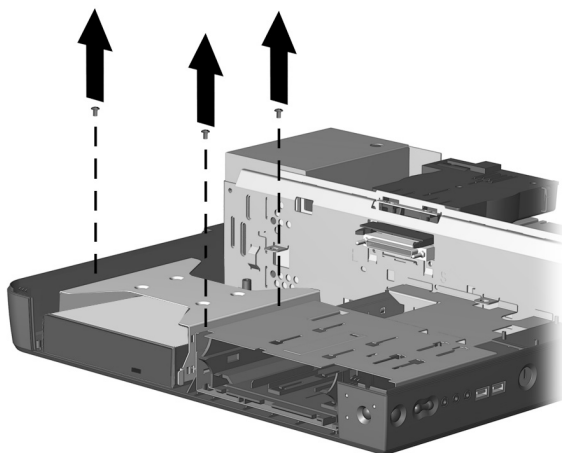
3. Disconnect the half-height drive cables from the expansion base.

4. Lift the drive cage and attached half-height drive out of the expansion base.
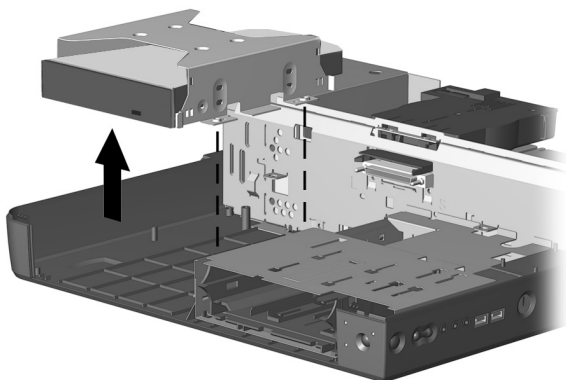
5. Remove the four screws attaching the drive cage to the half-height drive (two screws on each side).
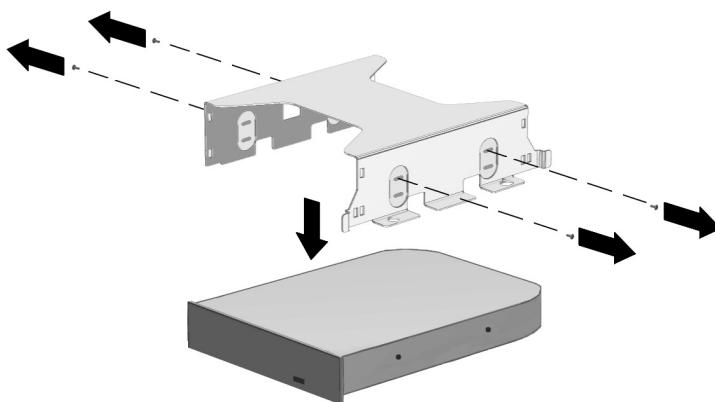
6. Remove the half-height drive from the drive cage.

7. If you are not installing another drive, replace the half-height bay blank bezel by inserting the two tabs on each side of the bezel into the two slots on each side of the drive cage. (This bezel was removed when the half-height drive was installed.)
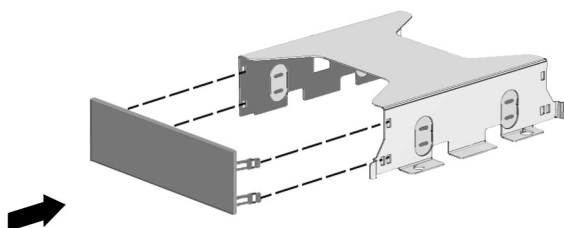
9. Replace the four screws into the sides of the drive. Use any of the screw holes.
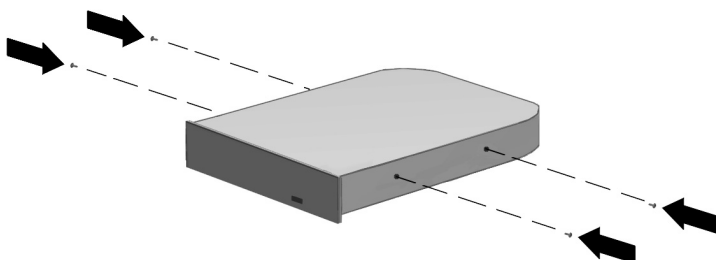
9. Align the base tabs on the right side of the drive cage with the ribs on the bottom of the expansion base.

10. Place the drive cage on the floor of the expansion base.
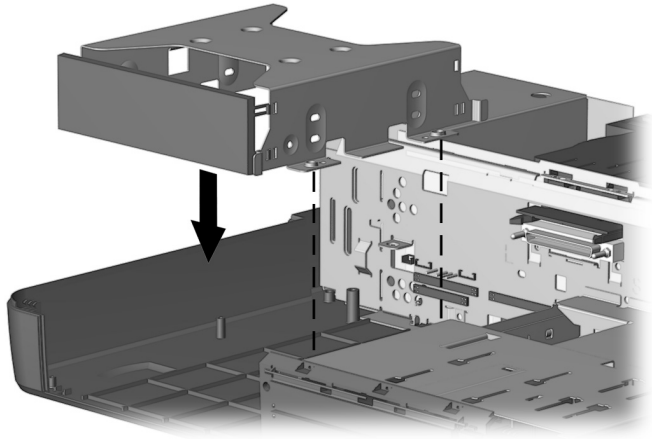
11. Replace the three screws that secure the drive cage to the expansion base.
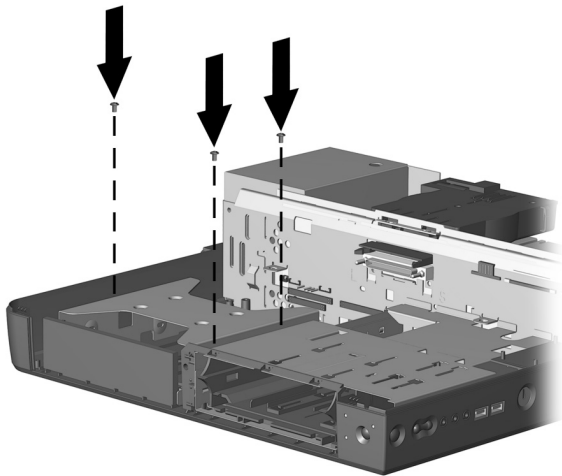
12. Continue reassembling the expansion base by following the procedures described under "Replacing the Top Cover" and "Replacing the Rear Panel."

Formatting a Hard Drive in the Expansion Base

PREFDISK is a utility designed to partition a hard drive installed in an expansion base under Windows 95 or Windows 98.

The PREFDISK utility can be obtained from a CD-ROM in the Quick Restore package included with the computer or from the Compaq website as a SoftPaq file.

To obtain the utility from the QuickRestore CD-ROM and run PREFDISK, follow the instructions in this section and in the *Quick Restore Instruction Guide*. To obtain the utility from the Compaq website, visit the site at http://www.compaq.com. Instructions for using the SoftPaq and running PREFDISK are provided in this section, on the website, and in a README file with the SoftPaq.

Both the Quick Restore package and the website sources require a diskette.

Extracting from the QuickRestore CD-ROM

To extract the PREFDISK utility:

1. Insert the QuickRestore CD-ROM included with your computer into the CD-ROM drive.

   Some computers are shipped with one CD-ROM, others with two CD-ROMs:

   ■ If you have one CD-ROM, select Application Recovery when prompted.

   ■ If you have two CD-ROMs, use the QuickRestore CD-ROM and the Application Recovery CD-ROM.

   NOTE: If the utility does not run automatically, execute Autorun.exe as follows.

   ■ From Windows Explorer, go to the CD-ROM drive.

   ■ Open the Program folder and double-click on Autorun.exe.

2. Follow the instructions on the screen to extract the PREFDISK utility.

3. Exit the Application Recovery utility.

4. Go to the location on your hard drive where you saved the PREFDISK utility.

5. Open the Disk 1 folder and execute the Makedisk.bat file.

6. Follow the instructions on the screen to create a bootable system diskette.

7. Restart the computer with the diskette in drive A.

8. From the FDISK menu, partition the hard drive.

9. Remove the diskette from drive A and restart the computer.

10. Format the hard drive.

Downloading from the Compaq Website

To run the PREFDISK utility:

1. Download the SoftPaq file to a directory of your choice and go to that directory.

2. Execute the SoftPaq file by double-clicking on the SoftPaq executable file.

3. Open the Disk 1 folder and execute the Makedisk.bat file.

4. Follow the instructions on the screen to create a bootable system diskette.

5. Restart the computer with the diskette in drive A.

6. From the FDISK menu, partition the hard drive.

7. Remove the diskette from drive A and restart the computer.

8. Format the hard drive.

Changing the Startup Sequence with MultiBoot

When more than one drive is in the system, the computer selects the drive to start from by searching sequenced locations for, first, a bootable CD-ROM or DVD-ROM; second, a bootable diskette; and third, a bootable hard drive.

NOTE: A bootable device or medium contains files needed by the computer to start up and operate properly.

The computer can start from

- Any bootable hard drive or bootable drive medium, such as a diskette, CD-ROM, DVD-ROM, or disk, in the computer.
- Any bootable diskette in the external diskette drive bay.
- Any bootable diskette (but not a SuperDisk LS-120 drive disk) in the expansion base.
- Any bootable peripheral interconnect (PCI) network adapter board in the computer.

By default, Phoenix MultiBoot is disabled, and the computer selects the startup drive by searching the following locations in this sequence:

1. External diskette drive bay (included with some computer models)
2. Computer MultiBay 1—Top MultiBay, if the computer has a Dual MultiBay

    or

    Computer MultiBay—If the computer has only one MultiBay.
3. Computer MultiBay 2—Bottom MultiBay, if the computer has a Dual MultiBay
4. Computer hard drive bay
5. Left expansion base MultiBay (half-height drive)
6. Right top expansion base MultiBay
7. Right bottom expansion base MultiBay
8. Computer Ethernet network interface card (NIC)
9. Expansion base Ethernet network interface card in PCI expansion slot 1
10. Expansion base Ethernet network interface card in PCI expansion slot 2

11. Expansion base Ethernet network interface card in PCI expansion slot 3

You can change the sequence in which the computer searches for a startup device by enabling MultiBoot and entering a different startup sequence. When the computer restarts and searches for a startup drive, it considers only the first drive of each type. For example, in the default boot order, the computer will not start from a bootable diskette drive diskette in an expansion base if a non-bootable diskette drive diskette is in a computer MultiBay.

IMPORTANT: Changing the boot order also changes the logical drive designations. For example, if you start up from a hard drive in the computer MultiBay, it becomes drive C and a hard drive in the hard drive bay becomes drive D. Starting up from a network card does not affect logical drive designations.

Selecting a MultiBoot Utility

You can enable MultiBoot and change the sequence of the computer drive bay locations that the computer searches during startup by using Computer Setup, available on all computer models, or by using Compaq Computer Security, a Windows-based utility available on some computer models.

■ Computer Setup can be used even when your operating system is not working or will not load.

■ In Computer Setup the list of bootable devices includes only the bootable devices currently in the computer or an optional docking base. The external diskette drive bay does not list in the boot order field, but is always searched first for a bootable diskette.

■ In Compaq Computer Security the list of bootable devices includes all bootable devices supported by the BIOS. If you set a boot sequence for a bootable device that is not currently in the system, the device will be included in the boot sequence when it is present and ignored when it is not present.

Changing the Startup Sequence in Computer Setup

1. Restart the computer, then press **F10** when the blinking cursor appears upper-right on the screen.

■ To change the language, press **F2**.

■ For navigation instructions, press **F1**.

2. Select Advanced   Boot Options, then press **Enter.**

3. Toggle the MultiBoot field to Enable.

4. Toggle the Boot Order fields to the boot sequence you prefer.

   NOTE: If the computer has a Dual MultiBay, the Boot Order
   field for the computer bottom MultiBay is MultiBay-1; the
   Boot Order field for the computer top MultiBay is
   MultiBay-2. Use MultiBay-1 as the field for a 17-mm drive
   that fills both the top and bottom MultiBays.

5. To save your preferences and exit Boot Options, press **F10**.

6. To confirm saving your changes, close Computer Setup, and
   restart the computer, select File   Save Changes and Exit, then
   press **F10**.

Changing the Startup Sequence in Compaq Computer Security

1. Access the Compaq Computer Security window:
   - Select Start   Settings   Control Panel. Select the Compaq
     Computer Security icon.

     or

   - Right-click the Compaq Computer Security icon in the
     Windows taskbar, then select Security Properties.

2. Select the Boot Security tab.

3. Select the Enable Multi-Boot checkbox.

4. Use the Move Up and Move Down buttons to display your
   preferences in the Boot Order list.

   NOTE: Both buttons are inactive until the Enable MultiBoot
   box is selected. The Move Up button is inactive if the selected
   item is at the top of the Boot Order List. The Move Down
   button is inactive if the selected item is at the bottom of the
   Boot Order List.

5. Select the OK button.

chapter 5

CHARGING BATTERY PACKS

IMPORTANT: Only a lithium ion battery pack can be charged in the expansion base.

Charging a Battery Pack

A battery pack

- Can be charged only in the bottom MultiBay.
- Begins to charge as soon as it is inserted into the expansion base MultiBay.
- Charges in the expansion base MultiBay whether or not the computer is docked.
- Charges in the computer whenever the computer is docked in the expansion base.

When a battery pack is inserted into the expansion base bottom MultiBay, the MultiBay light

- Turns on while the battery pack is charging.
- Turns off when the battery pack is fully charged.

Charging Multiple Battery Packs

Battery packs charge in this sequence:

1. Primary battery pack in the computer battery bay.
2. Spare battery pack in the computer MultiBay.
3. Spare battery pack in the expansion base bottom MultiBay.

A battery pack that is charging is not interrupted if a battery pack is inserted into a bay that normally charges before it. The first battery pack continues charging until it has a full charge. The system then charges the next battery pack in the charging sequence.

Inserting a MultiBay Battery Pack

1. If the expansion base is locked, unlock the expansion base keylock.
2. Insert the battery pack into the bottom MultiBay with the connector facing in.
3. Push the battery pack into the bottom MultiBay until it is seated.
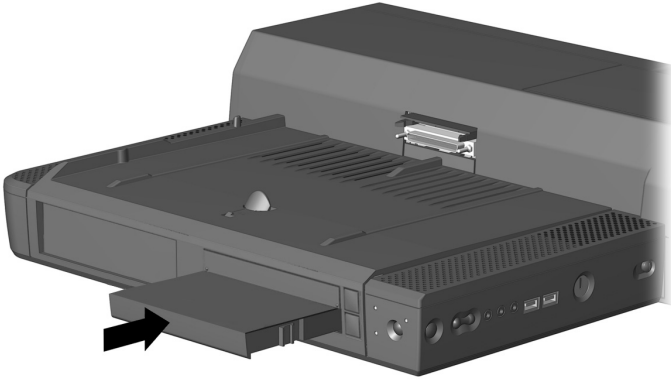
Removing a MultiBay Battery Pack

1. If the expansion base is locked, unlock the keylock.
2. Push the bottom MultiBay release button .
3. Pull the battery pack out of the bottom MultiBay .
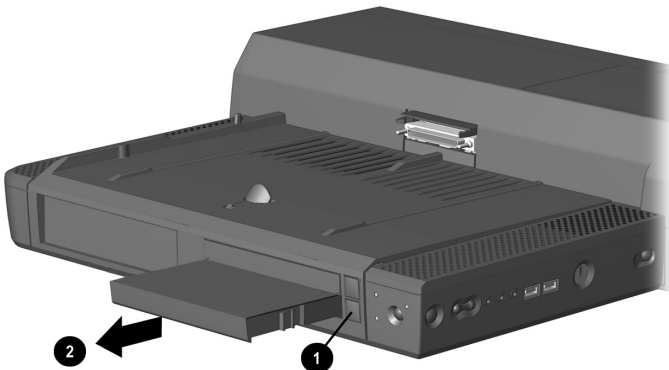
chapter 6

INSTALLING AND REMOVING AN EXPANSION BOARD

Installing a PCI Expansion Board

If you are installing an expansion board that requires a cable connection to a drive bay, such as a SCSI controller, refer to the documentation included with the expansion board.

NOTE: Use a Torx T-15 screwdriver.

Before You Begin

1. Shut down the computer.

2. Remove the external monitor and monitor support cover, if in place.

3. If the expansion base is locked, unlock the keylock.

4. Undock the computer.

5. Turn off and disconnect external equipment.

6. Disconnect the power cord.

Removing the Rear Panel

1. Position the expansion base so that its rear panel is facing you.
2. Remove the connector cover.
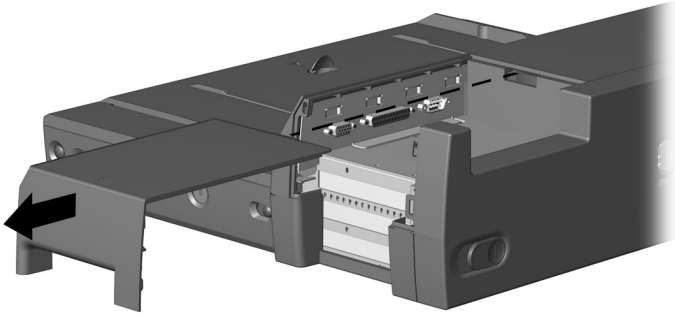
3. Slide the rear panel release latch left to the open position.

4. Using both hands, grasp the bottom edge of the rear panel and swing the bottom out and up until it disengages.

5. When you feel the rear panel detach from the top cover of the expansion base, lift it up and off.

Removing the Expansion Slot Cover

⚠️ **CAUTION:** Electrostatic discharge (ESD) can damage electronic components. Before beginning this procedure, ensure that you are properly grounded. Refer to Appendix B, "Electrostatic Discharge."

Your expansion base configuration may include one or more installed PCI cards.

1. Find the three expansion slot covers ❶, ❷, and ❸. You can install a PCI expansion board in any of the three slots.

   Select the slot you want to use, depending on the size of the expansion board you are using.

   A half-sized expansion board can be installed in slots ❶, ❷, and ❸. A full-sized expansion board can be installed only in slot ❸.
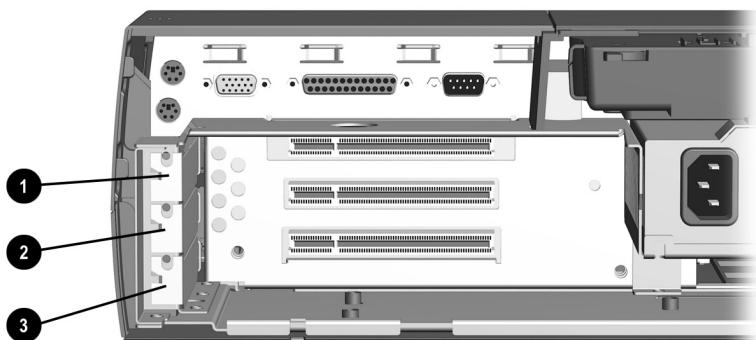
2. Remove the screw that secures the expansion slot cover to the chassis. This screw will be used later to secure the newly installed expansion board.

3. Remove the expansion slot cover.

   Retain the expansion slot cover. You will need it if you remove the expansion board and replace it with another expansion board.

   The illustration shows removing the cover from expansion slot ❸.
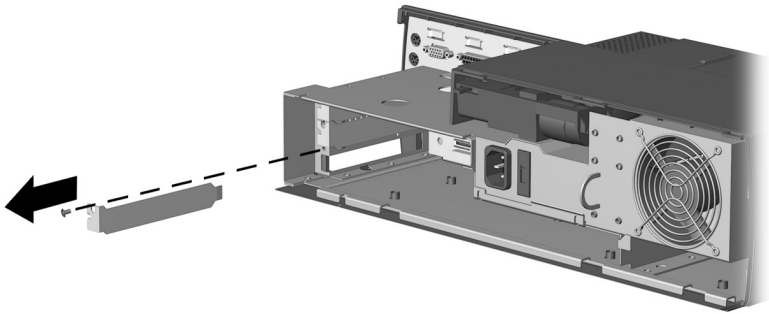
Inserting the Expansion Board

1. The three PCI expansion slot connectors correspond with the three external PCI card slots on the outside of the expansion base.
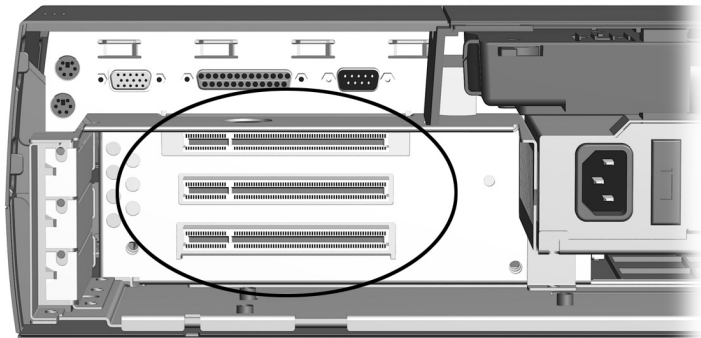
2. Align the bracket ❶ on the side of the expansion board with the expansion slot ❷.

   NOTE: If you are installing a full-sized expansion board, insert it into slot 3.

3. Push the expansion board straight into the expansion slot until the connectors are seated.

4. If the expansion board has a cable, refer to the documentation included with the board for connection information.

5. Fasten the expansion board bracket to the chassis with the screw ❸ that you removed from the expansion slot cover.

   The illustration shows inserting a half-sized expansion board in slot 3.
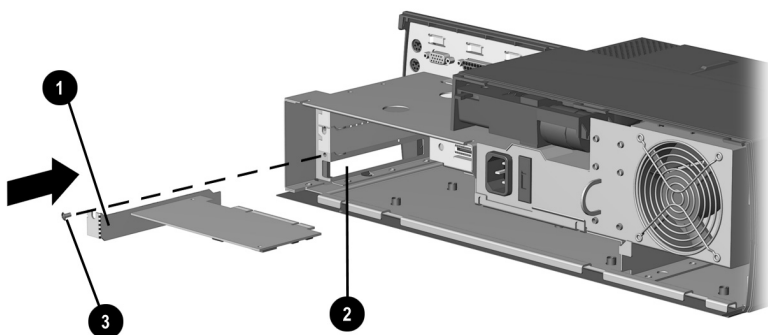
Replacing the Rear Panel

1. Replace the rear panel by inserting the tabs on the top of the rear panel into the slots in the top cover. When the tabs are in the slots, pivot the bottom of the rear panel downward until it is seated.

2. Secure the rear panel by moving the rear panel release latch right to the closed position.

3. Reconnect the external device cables and power cord to the expansion base.

Once an expansion board in one PCI slots is, its external connector is accessed through the PCI card slot on the outside of the expansion base.

IMPORTANT: If you installed a PCI CardBus Reader, you must insert the PC Card *label side down* into the PC Card slot. For more information about using PC Cards, see the guide that came with your computer.

Removing a PCI Expansion Board

NOTE: Use a Torx T-15 screwdriver.

1. Follow the procedures under "Before You Begin" and "Removing the Rear Panel" in this chapter.

⚠ **CAUTION:** Electrostatic discharge (ESD) can damage electronic components. Before beginning this procedure, ensure that you are properly grounded. Refer to Appendix B, "Electrostatic Discharge."

2. Remove the screw ❶ that is securing the expansion board to the chassis ❷. This screw will be used later for one of the following reasons:

   ■ If you replace the expansion board that you are removing, you will use the screw to install the new expansion board.

   ■ If you do not replace the expansion board that you are removing, you will use the screw to replace the expansion slot cover.

3. Pull the expansion board straight out.

   The illustration shows removing a half-sized expansion board from slot 3.
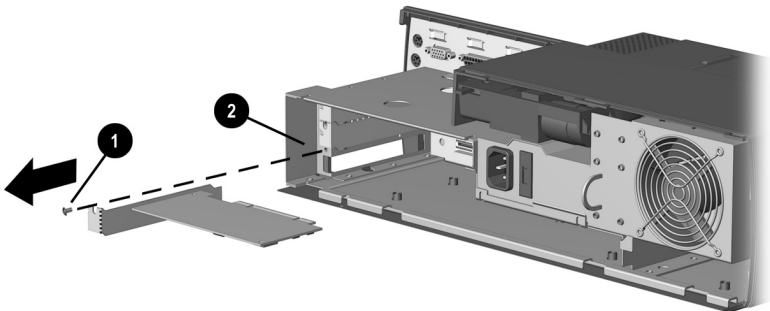
4. If you are not installing another expansion board in the same expansion slot, replace the expansion slot cover. (This is the slot cover that was removed when the expansion board was installed.) Attach it to the chassis with the screw that you removed in step 2.

   This illustration shows replacing the cover in expansion slot 3.
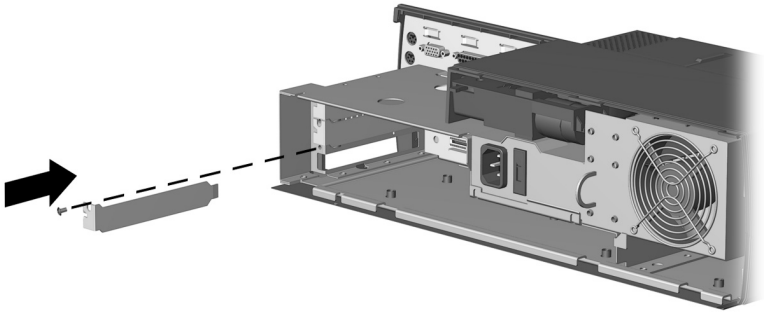
5. Replace the connector cover.
6. Replace the rear panel by inserting the tabs on the top of the rear panel into the slots in the top cover. When the tabs are in the slots, pivot the bottom downward until it is seated.
7. Secure the rear panel by moving the rear panel release latch right to the closed position.
8. Reconnect the external equipment cables and power cord.

chapter 7

TROUBLESHOOTING

While your computer is set up for your hardware and software, problems you encounter while working may not be unique. Eliminating the typical problems described in this section may save you time and money. If you have a problem with your system, consider the possible causes and solutions outlined in the following tables. You may discover something you can resolve easily yourself. If the condition persists, contact your Compaq authorized dealer or reseller.

For possible problems that are not specifically related to using the computer with the expansion base, refer to the troubleshooting section in the documentation included with the computer.

Solving System Problems

Solving External Keyboard Problems		
Problem	**Probable Cause**	**Solution(s)**
External keyboard does not work.	External keyboard may not be securely connected.	Make sure the external keyboard is securely connected to the keyboard connector.

Solving External Mouse Problems

Problem	Probable Cause	Solution(s)
External mouse does not work.	External mouse may not be securely connected.	Make sure the external mouse cord is securely connected to the mouse connector.
	Mouse driver is not loaded.	Load mouse driver.
	External mouse was connected after the system was turned on.	Turn off system power, and turn on system again.

Solving External Monitor Problems

Problem	Probable Cause	Solution(s)
Screen is blank.	Screen save was initiated after the Power Management screen timeout (period of inactivity).	Press any key or click the mouse.
	You have another screen saving utility installed.	Press any key or click the mouse.
	Suspend was initiated.	Press the suspend button to exit Suspend.
	The image is on the computer display.	Press the **Fn+F4** hotkeys to switch the image from the computer display to the external monitor.
	Power to the monitor is turned off.	Turn on the monitor.
Computer screen is blank and the image is on the external monitor.	Image was switched to the external monitor.	Press the **Fn+F4** hotkeys to switch the image to the computer screen.

Continued

Problem	Probable Cause	Solution(s)
Display on the external monitor is distorted.	Incorrect display device drivers are installed or incorrect resolution is set.	Select Start Settings Control Panel Display icon, then set the display type and resolution for the external monitor.
Garbled characters on the computer screen or flashing computer display when connected to an external monitor.	Toggled to internal computer from an external monitor that is using higher resolution than the computer supports.	Restart the system. If simultaneous display is desired, use the VGA resolution the computer supports.
External monitor screen is distorted.	Energy Star Monitor is selected on the Power Management menu, and the external monitor is not Energy Star compliant.	Press any key or move the mouse to restore the image on the screen. If the image remains distorted, turn the monitor off, then back on. Clear the Energy Star Monitor setting checkbox.
Computer display and external monitor display do not display image simultaneously.	Image was switched using the **Fn+F4** hotkeys.	Press the **Fn+F4** hotkeys to toggle through the three display possibilities until simultaneous display occurs.

Solving Docking Problems

Problem	Probable Cause	Solution(s)
The computer is not properly docked in the expansion base or will not dock.	The computer and expansion base connectors are not properly seated.	Redock the computer making sure to align it along the left alignment guide on the expansion base.
	No AC power.	Ensure the power cord is plugged into the expansion base and the outlet.
The computer will not undock.	The expansion base may be secured by the keylock.	Unlock the keylock.
	No AC power because of lost service or power cord is disconnected.	Ensure the power cord is plugged into the expansion base and the outlet. or Manually undock the computer. For more information, refer to "Undocking Manually" in Chapter 2.
	Operating system does not support undocking while computer is on or in Suspend.	Turn off the computer before undocking.

External Device Installation Problems and Solutions

Problem	Probable Cause	Solution(s)
A new device connected to the expansion base is not recognized as part of the computer system.	Cable(s) of the new external device are loose, or the power cables are unplugged.	Ensure that all cables are properly and securely connected.
	Power switch of the new external device is not turned on.	Turn off the computer, turn on the external device, then turn on the computer to integrate the device with the computer system.
	Device is not plug and play.	**Windows 95/ Windows 98:** Double-click the Add New Hardware icon in Control Panel for help installing the device. **Windows 2000 Professional:** Double-click the Add/Remove Hardware icon in Control Panel, then use the Microsoft wizard to install the correct driver for the device.

Solving Expansion Board Problems

Problem	Probable Cause	Solution(s)
Expansion board does not work.	Expansion board is not properly installed.	Review the installation steps in Chapter 6 to ensure the expansion board is properly installed.
Expansion board is not recognized by the system.	Drivers for the expansion board are not installed.	Obtain the necessary drivers from the expansion board manufacturer.
PC Card cannot be inserted in the PC Card slots.	PC Card must be inserted label-side down.	Insert PC Card label-side down.

Solving Network Problems

Refer to these guidelines when you have determined that the computer in the expansion base is not communicating with the network. These guidelines do not discuss the process of debugging the network cabling.

■ Ensure that the cabling is securely attached to the expansion base. A loose cable is the most common cause of network problems. If the cable is loose, secure it and see if the computer can communicate with the network.

■ Determine whether the current computer or another computer has communicated with the network from the expansion base. If so, determine whether anything was added or changed that could have stopped the network interface from working.

■ Run Diagnostics Utilities before installing the network drivers to verify that the network interface is working correctly. Refer to the guide that came with your computer for more information on running Diagnostics Utilities.

Solving Network Problems

Problem	Possible Cause	Solution(s)
When turned on, the computer does not detect the network.	The computer is not connected to the network.	Connect the computer to the network. Refer to the "Connecting to a Network" section for procedures.
	Suspend or Hibernation was initiated.	Exit Suspend or Hibernation.
		Windows 95/Windows 98/ Windows 2000 Professional: Restart the computer.
		Windows NT: Turn off the computer, then turn it back on.

Continued

Problem	Possible Cause	Solution(s)
After installing network operating system drivers, computer does not detect network interface.	The network driver fails to load during system initialization.	Ensure that network drivers are loaded and that the drive path is correct.
	If using a network interface card connected to a parallel port, the port has been disabled.	Enable the parallel port. Restart the computer. Press **F10** when the blinking cursor appears in the upper right on the screen.
	Suspend or Hibernation was initiated.	Exit Suspend or Hibernation.
		Windows 95/Windows 98/ Windows 2000 Professional: Restart the computer.
		Windows NT: Turn off the computer, then turn it back on.
Diagnostics reports a failure.	The cable is not securely connected to the network connector on the network.	Ensure that the cable is securely connected to the proper network connector on the network.
	There is a problem with the cable or a device at the other end of the cable.	Ensure that the cable and device at the other end of the network connection are operating properly.
	Possible hardware failure.	Contact Customer Support or your service provider.

Continued

Problem	Possible Cause	Solution(s)
Diagnostics reports no errors, but the computer does not communicate with the network.	Network drivers are not loaded.	Load the network drivers.
		Windows 95/Windows 98/ Windows 2000 Professional: Restart the computer.
		Windows NT: Turn off the computer, then turn it back on.
	A network configuration error may have occurred (i.e., *.ini, *.inf, *.nif, or CONFIG.SYS files may need to be modified).	Contact your network administrator, or refer to your network operating system documentation.
	Suspend or Hibernation was initiated.	Exit Suspend or Hibernation.
		Windows 95/Windows 98/ Windows 2000 Professional: Restart the computer.
		Windows NT: Turn off the computer, then turn it back on.
The computer stopped communicating with the network after exiting Suspend.	The computer does not detect network drivers.	**Windows 95/Windows 98/ Windows 2000 Professional:** Restart the computer.
		Windows NT: Turn off the computer, then turn it back on.

Continued

Network Problems, *continued*

Problem	Possible Cause	Solution(s)
The computer stopped communicating with the network for no apparent reason.	The cable is not securely connected to the network connector.	Ensure that the cable is securely connected to the expansion base and network.
	General network failure.	Ensure that the network you are connected to is running and has not experienced problems that would prevent the connection.
	The files for the network drivers have been corrupted.	Reinstall the network drivers. Refer to the "Connecting to a Network" section for instructions.

appendix A

REGULATORY NOTICES

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

■ Reorient or relocate the receiving antenna.

■ Increase the separation between the equipment and receiver.

■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

■ Consult the dealer or an experienced radio or television technician for help.

Declaration of Conformity for products marked with the FCC logo - United States only

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For questions regarding your product, contact:

Compaq Computer Corporation

P. O. Box 692000, Mail Stop 530113

Houston, Texas 77269-2000

Or, call

1-800- 652-6672 (1-800-OK COMPAQ)

For questions regarding this FCC declaration, contact:

Compaq Computer Corporation

P. O. Box 692000, Mail Stop 510101

Houston, Texas 77269-2000

Or, call

(281) 514-3333

To identify this product, refer to the Part, Series, or Model number found on the product.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Compaq Computer Corporation may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

■ EN55022 (CISPR 22)—Radio Frequency Interference

■ EN50082-1 (IEC801-2, IEC801-3, IEC801-4)— Electromagnetic Immunity

■ EN60950 (IEC950)—Product Safety

Canadian Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Avis Canadien

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Japanese Notice

　　この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。
　　取扱説明書に従って正しい取り扱いをして下さい。

Airline Travel Notice

Use of electronic equipment aboard commercial aircraft is at the discretion of the airline.

appendix B

ELECTROSTATIC DISCHARGE

A discharge of static electricity from fingers or other electrostatic conductors may damage electronic components. Before handling electrostatic-sensitive components, discharge static electricity by one of the methods described in this appendix.

Preventing Electrostatic Discharge

When Handling Drives

■ Before handling a drive, discharge static electricity by touching the unpainted metal surface or lug nuts on the connectors on the back of the docking base or the computer.

■ Avoid touching connector pins on the computer, the docking base, a drive, or a drive adapter.

When Installing Internal Components

■ Keep components in their electrostatic-safe containers until you are ready to install them.

■ Have everything needed for the installation within reach so that you do not have to leave the area after beginning installation.

■ Use nonmagnetic tools.

■ Before touching an electronic component, discharge static electricity by one of the grounding methods described later in this appendix. If you must leave the area during installation, remember to reground yourself before resuming installation.

■ Avoid touching pins, leads, and circuitry. Handle electronic components as little as possible.

■ If you remove a component, place it in an electrostatic-safe container.

Grounding Methods

If installation instructions direct you to unplug the computer or the docking base, unplug it *after* being properly grounded and *before* removing the cover. Use one or more of the following grounding methods.

■ Touch the unpainted metal surface or lug nuts on the connectors on the back of the computer or docking base. Avoid touching connector pins.

■ Touch an exterior unpainted metal surface of equipment that is connected to an electrical outlet by a grounding plug.

■ Use a wrist strap connected by a ground cord to the computer chassis. Wrist straps are flexible grounding straps with a minimum of 1 megohm ± 10 percent resistance in the ground cords. To provide proper ground, wear the strap snug against the skin.

NOTE: If you need more information about static electricity or assistance with product installation, contact your Compaq authorized dealer, reseller, or service provider.

appendix C

SPECIFICATIONS

Expansion Base Power Supply (Input)	
Electrical Ratings	
100 to 120 VAC input	5.0 Amp
200 to 240 VAC input	2.5 Amp

The expansion base is designed in accordance with ANSI specifications (no.X3.131-1993, Rev 10h) and IEEE 802.3 specifications.

NOTE: This product is designed for IT power systems with phase-to-phase voltage not exceeding 240Vrms minimum charge.

Expansion Base Dimensions		
Height		
With monitor support cover	5.7 in	(14.6 cm)
Without monitor support cover	5.0 in	(12.7 cm)
Depth	16.2 in	(41.2 cm)
Width	18.0 in	(45.7 cm)
Weight		
With monitor support cover	22.7 lb	(10.2 kg)
Without monitor support cover	19.4 lb	(8.7 kg)

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