HP Vectra VLi 8 PC

Models and Accessories

Product Number	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS[1]
Vectra VLi 8 PC						
Models with Intel Pentium II Processor, 100MHz System Bus Speed, and 512 KB Level 2 Cache Memory						
HP Vectra VLi 8 PC 400/100 (CPL: 03/99 ▶)						
D7941A/T	6.4 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	64 MB SDRAM 100 MHz	no	no	W95
D7942A/T					3COM 3C905B-TX	NT 4.0 WS
D7943A/T	8.4 GB IDE			32 × Max IDE CD-ROM	no	W95
D7944T	6.4 GB IDE			no		NT 4.0 WS
D7945A/T				32 × Max IDE CD-ROM		
D8794A				no		DOS
Vectra VLi 8 PC						
Models with Intel Pentium III Processor, 100 MHz System Bus Speed, and 512 KB Level 2 Cache Memory						
HP Vectra VLi 8 PC 450/100 (CPL: 03/99 ▶)						
D7951A/T	6.4 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	64 MB SDRAM 100 MHz	no	no	W95
D7952A/T					3COM 3C905B-TX	NT 4.0 WS
D7953A/T	8.4 GB IDE			32 × Max IDE CD-ROM	no	W95
D7954T	6.4 GB IDE			no		NT 4.0 WS
D7955A/T				32 × Max IDE CD-ROM		

Medium-Profile Desktop Vectras

HP Vectra VLi 8 PC

Product Number	Hard Drive	Video Controller	Std. RAM	Multi-media	LAN	OS[1]
HP Vectra VLi 8 PC 500/100 (CPL: 03/99 ▶)						
D7961A/T	6.4 GB IDE	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	64 MB SDRAM 100 MHz	no	no	W95
D7962A/T					3COM 3C905B-TX	NT 4.0 WS
D7963A/T	8.4 GB IDE			32 × Max IDE CD-ROM	no	W95
Vectra VLi 8 PC						
Models with User Defined Processor, Main Memory, and Hard Disk						
HP Vectra VLi 8 PC /xxx[2] (CPL: 03/99 ▶)						
D7950E	User defined	Integrated Matrox MGA-G200 AGP (8 MB SGRAM fitted, not upgradeable)	User defined	User defined	User defined	None

1. Operating system preloaded on these models, as indicated in the table.
2. Channel Assembly Program (CAP) models: Processor speed, hard disk size, and memory is user defined.

Note

All model have an integrated full-duplex PCI audio controller.

Supported Accessories

32-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module	D6501A/T
32-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module (pack of 20)	D6504A/T
64-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module	D6502A/T
64-MB kit 32-bit SDRAM, 100 MHz non-ECC main memory module (pack of 20)	D6505A/T
128-MB, 32-bit SDRAM, 100 MHz non-ECC main memory module	D6503A/T
256-MB, 32-bit SDRAM, 100 MHz ECC main memory module	D6743A/T

Documentation

User's Guide Manual Kit	D7940A

Input Devices

HP Standard Keyboard	C4735A
HP Scrolling Mouse	C4736A

Video Displays

All current HP Displays (see the *HP Vectra Accessory Service Handbook*)

Mass Storage

4.3-GB IDE hard disk	D8371A
6.4-GB IDE hard disk	D8372A
8.4-GB IDE hard disk	D8373A
HP 100 MB Atapi II Iomega ZIP drive	D6650A
HP 100 MB Atapi II Iomega ZIP drive (pack of 10)	D6651A

Multimedia

32✕ Max IDE CD-ROM drive (pack of 10)	D6656A
32✕ Max IDE CD-ROM drive	D4384A
Multimedia sound accessory kit (16-bit audio board, cables, and software) - pack of 10	D5183A
Multimedia sound accessory kit (32✕ Max CD-ROM drive, 16-bit audio board, headphones, cables, and software)	D6657A

Data Communications and LAN Adapter Boards

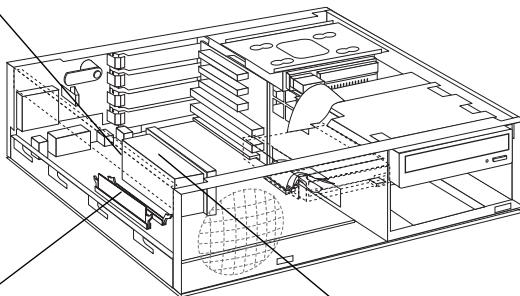|	
HP 56K V90 PCI Fax Modem	D7808A
HP 10/100 3Com 3C905B-TX, 10/100BT Ethernet card	D7504A
HP 10/100 3Com 3C905B-TX, 10/100BT Ethernet card (pack of 10)	D7505A
HP 10/100 Intel PRO/100+, 10/100BT Management adapter	D7506A
HP 10/100 Intel PRO/100+, 10/100BT Management adapter (pack of 10)	D7507A

Security

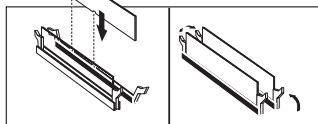|	
HP Master Pass Key System Kit	D6655A
HP Master Pass Key	D6658A
HP Locks for Master Pass Key System (pack of 50)	D6659A

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System Board, BIOS, and Memory
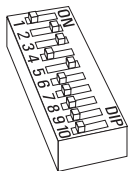
**System Board
Switches:** See the
table on the next page.

16

Main Memory:
Two DIMM sockets which support
up to a maximum of 512 MB.
Install 32 MB, 64 MB, 128 MB or
256 MB 100 MHz SDRAM modules.
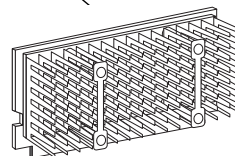
Processor: Pentium II
or Pentium III SECC2
package with integrated
heatsink and level-2
cache memory.

System Board Switches

Switch		Function	Default
1	—	RESERVED — Do Not Use	**Off**
2	On	Crash recovery mode: forces booting in the BIOS boot block area	**Off**
	Off	**Normal operation**	
3	**On**	**Normal operation (keyboard space-bar power-on enabled)**	**On**
	Off	Disables keyboard power- on	
4	On	Clears User and Administrator passwords	**Off**
	Off	**Normal operation**	
5	On	Clears CMOS (to reload the *Setup* program defaults)	**Off**
	Off	**Normal operation**	
6-9	—	Processor frequency, see the following table	—
10	—	RESERVED — Do Not Use	**Off**

System Frequency[1]		Switch			
Bus 100 MHz	Bus 66 MHz	6	7	8	9
350 MHz[2]	233[2] MHz	Off	On	Off	On
400 MHz	266[2] MHz	On	Off	On	On
450 MHz	300[2] MHz	Off	Off	On	On
500 MHz	333[2] MHz	On	Off	Off	On
Reserved	366[2] MHz	Off	Off	Off	On
Reserved	400[2] MHz	On	On	On	Off
Reserved	433[2] MHz	Off	On	On	Off

1. System and processor frequency is automatically determined by the type of processor.
2. These options are not yet available in any model of the HP Vectra VLi 8 at the time of printing. This information is provided for completeness only.

BIOS History

For the latest BIOS, the flasher utility program, and the BIOS history refer to the HP World Wide Web site.
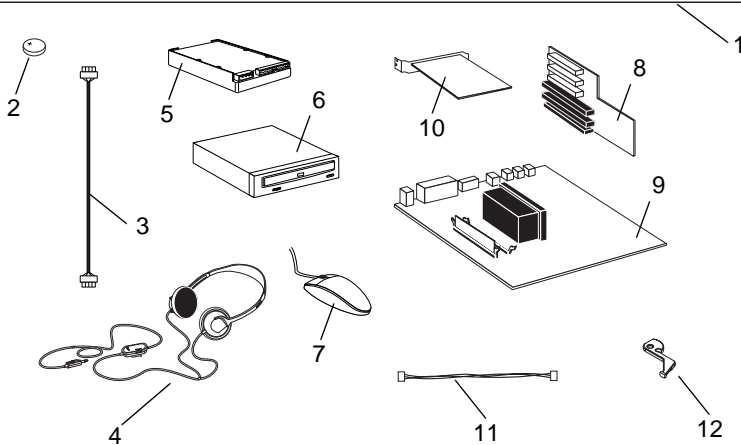
http://www.hp.com/go/vectrasupport/
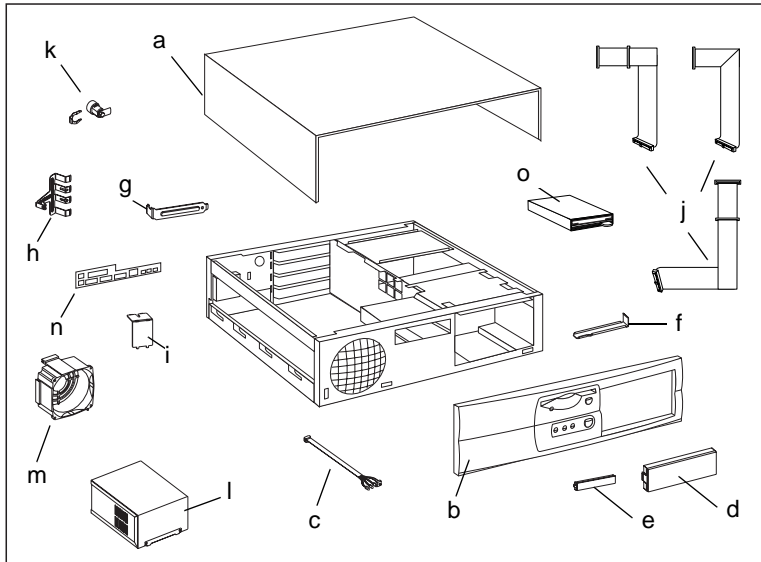
Part Numbers

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Parts List for HP Vectra VLi 8 PC

Item	Description	Repl. Part Number	Exchange Part Number
1	Box assembly:	5064-9152	—
	a Cover assembly	5064-7470	—
	b Bezel assembly	5064-7471	—
	c Status panel assembly	5064-9129	—
	d Blank filler (5.25 inch)	5042-3073	—
	e Blank filler (3.5 inch)	5042-3086	—
	f CD frame rail	5002-6213	—
	g I/O blank panel	5002-3841	—
	h I/O locker	5002-4795	—
	i AGP blank panel	5002-6211	—
	j HDD, FDD and CD-ROM cable kit	5064-9135	—
	k Master key lock	5064-2645	—
	l Power supply	0950-3472	—
	m Fan assembly	5064-9149	—
	n Rear bezel	5064-9127	—
	o Floppy disk drive (bezel-less)	D2035-60391	—
not shown	p Airflow guide	tbd	—
2	Battery type CR2032	1420-0356	—
3	CD-ROM to audio connector cable	5182-1857	—
4	Headphones	5182-3552	—
5	IDE hard disk drive [1]		
	6.4 GB	—	D8372-69001
	8.4 GB	—	D8373-69001
	13.5 GB	—	D8435-69001
6	32 × Max IDE CD-ROM drive	—	D4385-69001
7	Enhanced mouse with scroll/zoom wheel	C4736-60101	—
	Standard keyboard	C4735-603xx[2]	—
	Standard keyboard (Japan)	C4732-60324	—
	Multimedia keyboard	C4734-605xx[2]	—
8	Backplane board	5064-7455	—
9	System board	See PC's system board parts list	
10	3Com 3C905B-TX LAN board	5064-6787	—
or	Intel PRO/100+ LAN board	5064-7434	—
11	3COM Wake on LAN Cable	5183-2769	—
12	Mini NLX board extractor	5064-9114	—

1.   For optional disk drive information, see the *Accessory Service Handbook*.
2.   Where "**xx**" is the code for your national keyboard (see the *Accessory Service Handbook*).

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HP Vectra VLi 8 PC

System Board Parts List for HP Vectra VLi 8 PC

Description	Repl. Part Number	Exchange Part Number
System board:		
Vectra VLi 8 system board with Matrox MGA-G200 video controller and audio subsystem	—	D4066-69001
Processors (SECC2 package):		
Intel Pentium II 400/100 512KB L2 cache	—	D7645-69001
Intel Pentium III 450/100 512KB L2 cache	—	D7946-69001
Intel Pentium III 500/100 512KB L2 cache	—	D7957-69001
Main memory modules:		
1 × 64-MB, 100 MHz noon-ECC SDRAM	D6502-63001	—

Manuals and Documentation for HP Vectra VLi 8 PC

User's Guide Manual Kit	D7940A
Troubleshooting and Upgrade Guide	no number[1]
Technical Reference Manual: hardware and BIOS	no number[1]

1.   Electronic file available on HP's Web site.

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Notes:

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Removing and Replacing the Cover

Removing the Cover

1 Switch off the monitor and PC, disconnect all power cords and any telecommunication cables.

2 If necessary, unlock the cover (with the key) at the rear of the PC.

3 Open the rear catches ❶ and remove the cover ❷.

4 Remove the front panel.

Replacing the Cover

1 Ensure that all internal cables are properly connected and safely routed.

2 Replace the front panel.
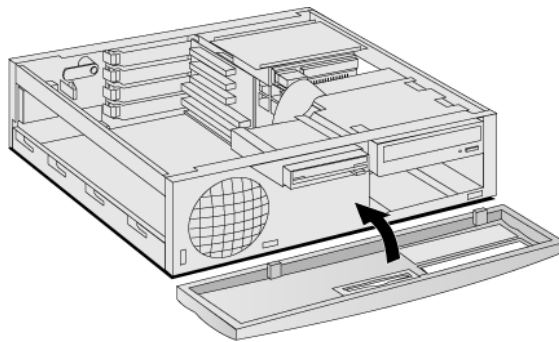
3 Lower the cover and slide it into position.
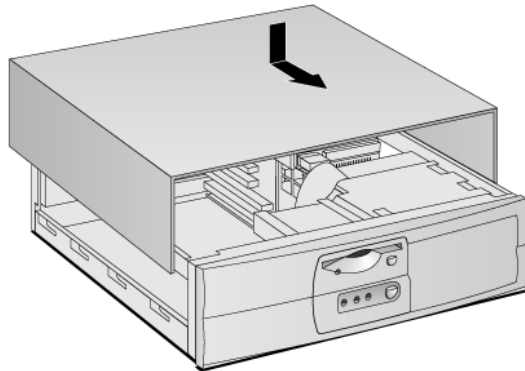
4 If required, lock the cover (with the key) at the rear of the PC.

The Label Inside Your PC

Inside, your PC contains a label that can be used as a simplified guide to help you install accessories and replace components.

Shows how to remove the system board
(step 1 does not apply to your PC model)

Shows how to remove the hard disk drive

Shows how to add an accessory board

Shows how to remove the floppy drive

Shows how to remove the front drive bay
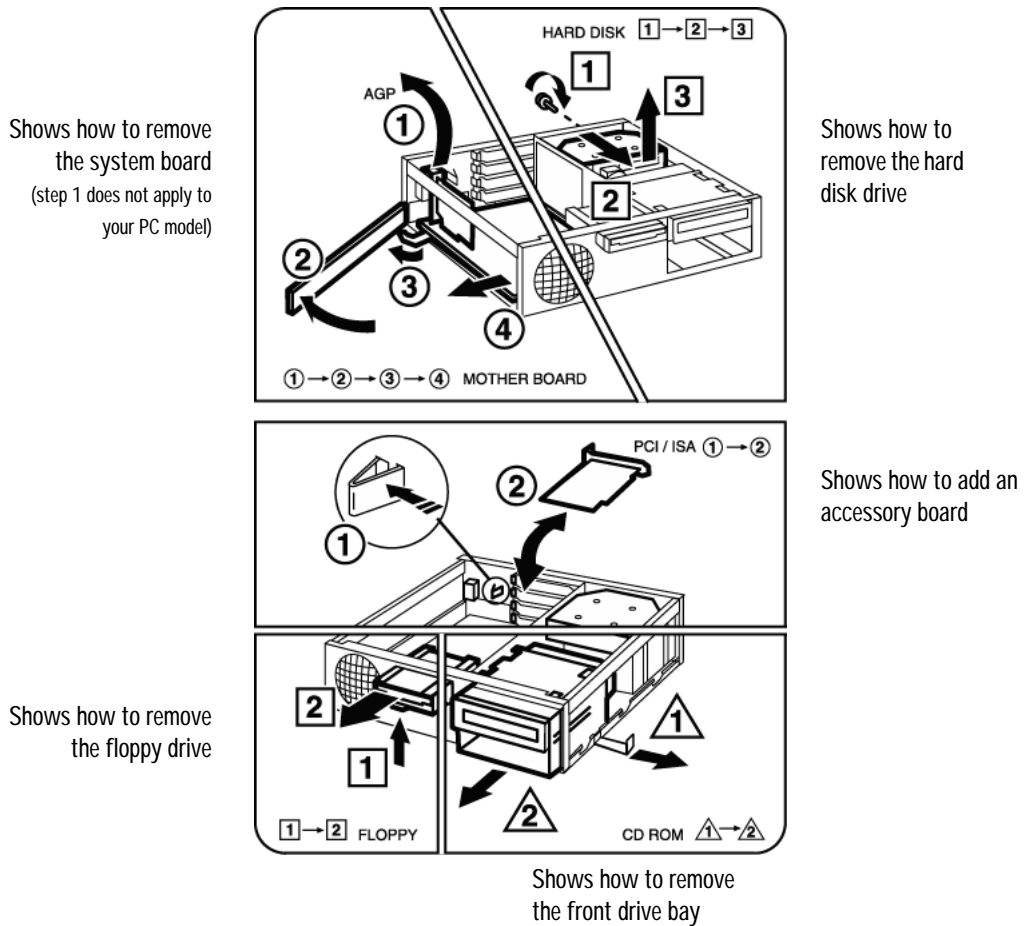
Upgrading the Main Memory

NOTE   Use only HP memory modules provided for your PC model. The use of other memory modules is not supported. For information about supported HP accessories, connect to the web site **www.hp.com/go/vectraaccessories**.

You can install up to a total of 512 MB (two 256 MB modules). Main memory is available in 100 MHz modules of 32 MB, 64 MB, 128 or 256 MB. (Although the 256 MB memory modules are ECC, the ECC feature is not used by this PC.)

Location of Main Memory (modules can be installed in either slot)
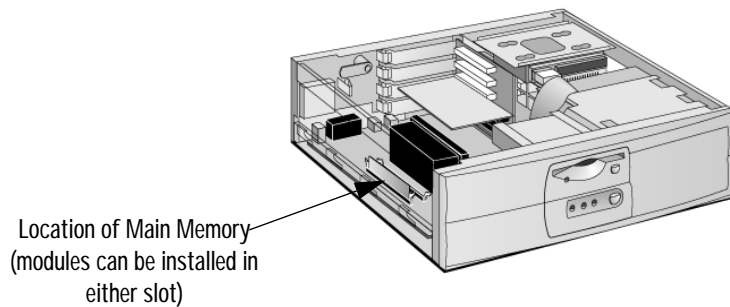
1   Remove the PC's cover (described in this chapter).

2   Line up the two side notches correctly and insert the new memory module. (You can use either slot.)
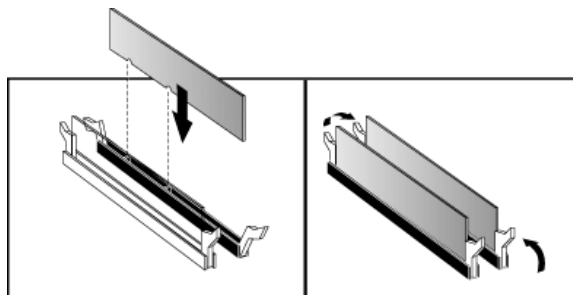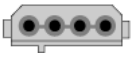
3   Replace the cover (described in this chapter).

Upgrading and Installing Mass Storage Devices

Drive Connectors

Internal drives, such as hard disk drives, DVD drives, and CD-ROM drives, must be connected to data and power cables. When replacing these drives, ensure you use the correct data and power connectors.

Master (boot) hard disk drive   CD-ROM, DVD or Zip drive   (you can use either connector)

2nd hard disk drive
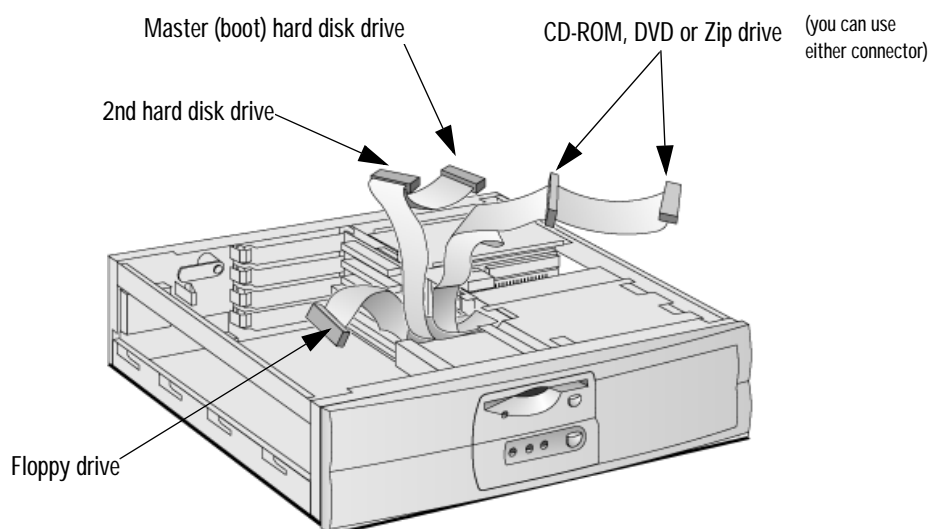
Floppy drive

Power Connectors	Number	Use for
	5 (3 devices max.)	Hard disk drives, DVD drives, CD-ROM drives, Zip drives
	1	Floppy disk drive

Which Data Connectors to Use

There are three data cables inside your PC. Two of these are for IDE devices.

- An Enhanced Ultra ATA IDE (Integrated Drive Electronics) hard disk drive cable.

  For optimum performance, use this cable to connect the Ultra ATA IDE hard disk drive.

- A second IDE drive cable that supports two IDE devices. If you install a CD-ROM drive, a DVD drive or a Zip drive, connect it to this cable.

- The third cable is non-IDE and has one connector for a floppy drive.

Up to three IDE devices can be connected to the system board using the IDE data cables.

Before Installing an IDE Hard Disk

Refer to the drive's installation guide to see if you must set jumpers or if there is a special installation procedure to follow.
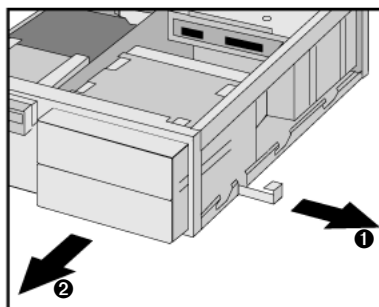
Upgrading the Hard Disk Drive

CAUTION

Handle the hard disk drive with care. Avoid shocks and violent movement as this can cause damage to the hard disk drive's internal components.
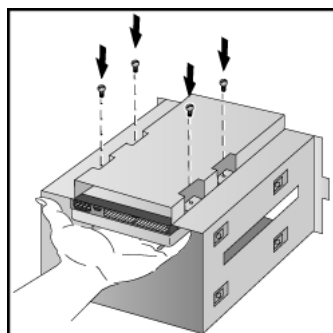
Make sure that you back up your files before you install a hard disk drive. Refer to your operating system documentation for information on how to do this.

You can replace your PC's hard disk drive with a larger one. To do this:

1 Remove the computer's cover (described in this chapter).

2 Remove the drive's connectors.
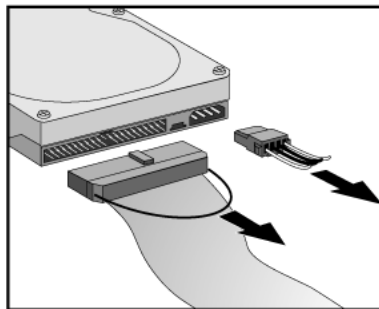
3 Remove the retaining screw ❶ and slide out the drive tray ❷.
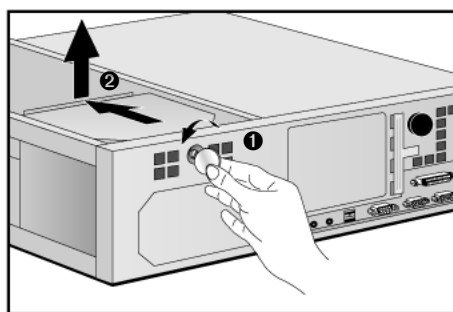
4 Loosen the tray's four screws and remove the old hard drive.

5   Align the new hard drive in the tray (with the correct orientation) and tighten the screws.

6   Replace the drive tray ❶ and retaining screw ❷.
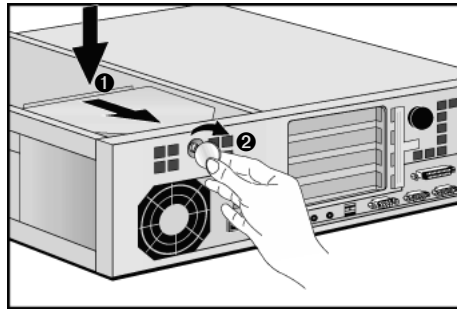
7   Attach the data and power connectors.
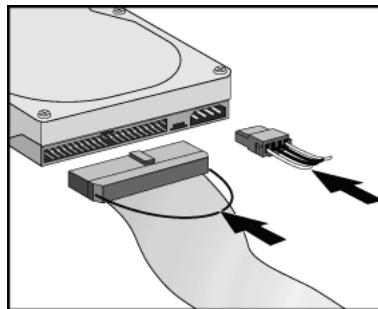
8   Replace the cover (described in this chapter).

9   Verify the new configuration by checking the HP Summary Screen. To access the HP Summary Screen, press **Esc** when the *Vectra* logo appears during startup.

NOTE

Ensure that you have installed all the required operating system and HP drivers on the newly installed drive. To reinstall operating system and HP drivers, use the *Diagnostics & Recovery CD-ROM* provided with the PC. In addition, you can find the most up-to-date versions of HP drivers on HP's Web site at: **www.hp.com/go/vectrasupport**.

Installing a Second Hard Disk Drive

Handle the hard disk drive with care. Avoid shocks and violent movement as this can cause damage to the hard disk drive's internal components.

Make sure that you back up your files before you install a hard disk drive. Refer to your operating system documentation for information on how to do this.

You can install a second hard disk drive in the lower front shelf of your desktop PC.

1 Remove the computer's cover (described in this chapter).

2 If there is already a drive installed in the front bay, remove its power and data connectors (so that you can remove the drive bay).

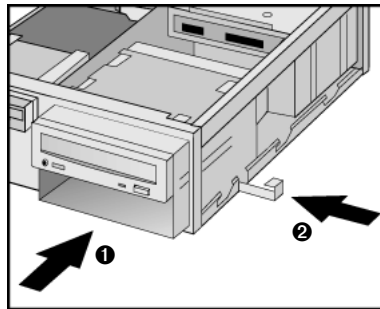3 Pull out the sliding latch ❶ and remove the drive bay ❷.

4 Align the new device in the bay (with the correct orientation) and secure it with the screws provided.

5 Slide the drive bay back into the PC (ensuring the bottom catches engage properly) and replace the sliding latch.
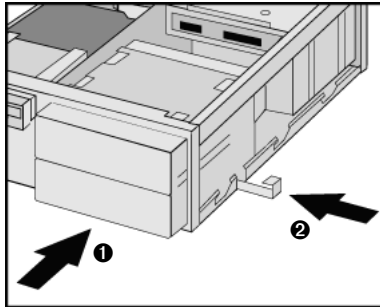
6 Attach all data and power connectors.

7 Replace the cover (described in this chapter).

8 Verify the new configuration by checking the HP Summary Screen. To access the HP Summary Screen, press **Esc** when the *Vectra* logo appears during startup.

NOTE   Ensure that you have installed all the required operating system and HP drivers on the newly installed drive. To reinstall operating system and HP drivers, use the *Diagnostics & Recovery CD-ROM* provided with the PC. In addition, you can find the most up-to-date versions of HP drivers on HP's Web site at: **www.hp.com/go/vectrasupport**.

Installing Removable Media Devices

The PC has an integrated Enhanced IDE controller which supports up to four IDE devices. Removable media IDE devices, such as CD-ROM drives, DVD drives, tape drives and Zip drives, require front access. You can install a removable media IDE drive in an empty front shelf.

Refer to the drive's manual to see if you must set jumpers or if there is a special installation procedure to follow.

1 Remove the computer's cover (described in this chapter).

2 If there is already a drive installed in the front bay, remove its power and data connectors (so that you can remove the drive bay).

3 Pull out the sliding latch ❶ and remove the drive bay ❷.
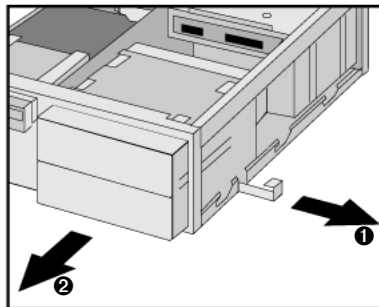
4 Align the new device in the bay (with the correct orientation) and secure it with the screws provided.
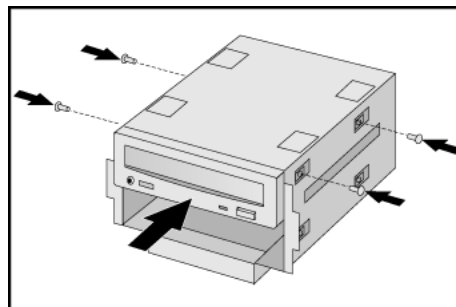
5 Slide the drive bay back into the PC (ensuring the bottom catches engage properly) and replace the sliding latch.

6 Attach all data and power connectors. If you are installing a CD-ROM or DVD drive, connect the audio cable too.
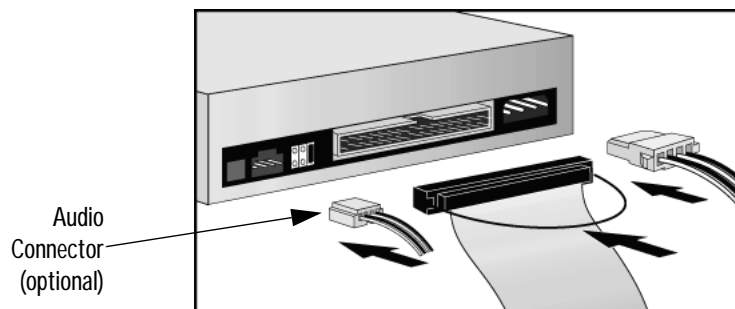
Audio Connector (optional)

7 Replace the cover (described in this chapter).

8 Verify the new configuration by checking the HP Summary Screen. To access the HP Summary Screen, press **Esc** when the *Vectra* logo appears during startup.

Configuring an IDE Device After Installation

After installing any device, you will need to verify that your PC has correctly identified the new configuration, by viewing the HP Summary Screen. If the configuration is not correct, run the *Setup* program to configure the device. To enter the *Setup* program, press **F2** during startup.

IDE drives are automatically detected by the *Setup* program. However, a newly installed device may require that you install an appropriate device driver. Refer to your operating system documentation for details. You can obtain the latest drivers from HP's Web site at:

www.hp.com/go/vectrasupport.

Replacing the Floppy Drive

1   Remove the computer's cover (described in this chapter).

2   Remove the drive's connectors.
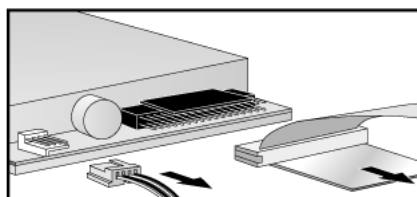
3   Lift the latch ❶ and slide out the floppy drive tray ❷.
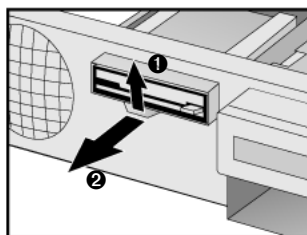
4   Remove the tray's screws and remove the old floppy drive.

5   Align the new floppy drive in the tray (with the correct orientation) and replace the screws.

6   Slide the floppy drive tray back into the PC.
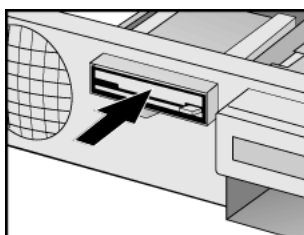
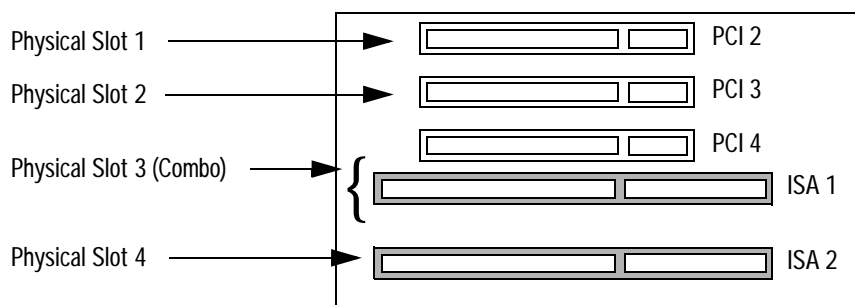7   Attach the data and power connectors.

8   Replace the cover (described in this chapter).

Installing Accessory Boards

Accessory Board Slots

The PC has four accessory board slots.

NOTE   Use only XT format ISA accessory boards (width less than 10.4 cm or 4.09 inches).

Accessory Board Connectors

- Physical slot 1 (the top slot) can be used for a full-length 32-bit PCI board.

- Physical slot 2 can be used for a full-length 32-bit PCI board.

- Physical slot 3 is a combo slot and can be used either for a full-length 32-bit PCI or a full-length XT format 16-bit ISA board.

- Physical slot 4 (the bottom slot) can be used for a full-length XT format 16-bit ISA board.
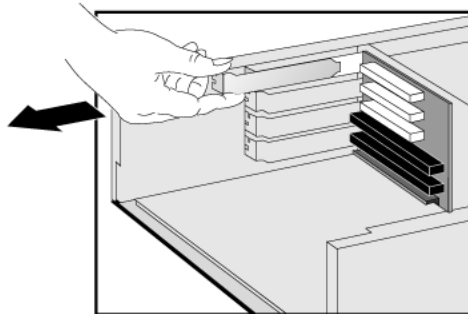
Installing an Accessory Board

Use only XT format ISA accessory boards (width less than 10.4 cm or 4.09 inches).

1 Remove the computer's cover (described in this chapter).
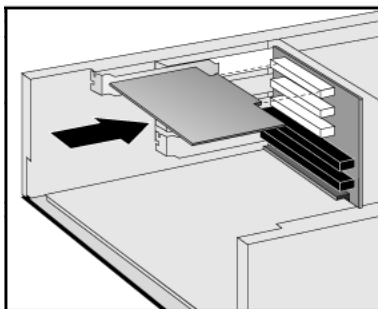
2 Remove the retaining bracket.
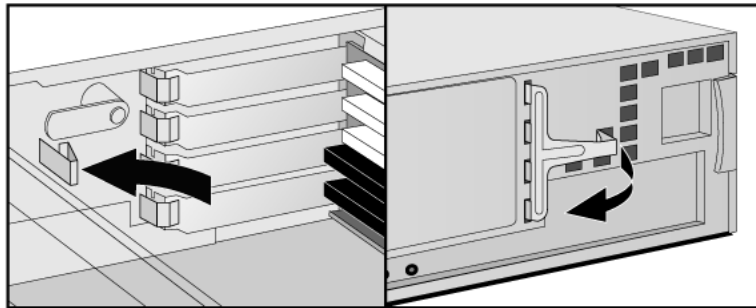
3 If the selected accessory board slot is located behind the processor, you may need to slide out the system board to allow access (refer to see "Replacing the System Board" on page 72 for information on how to do this).
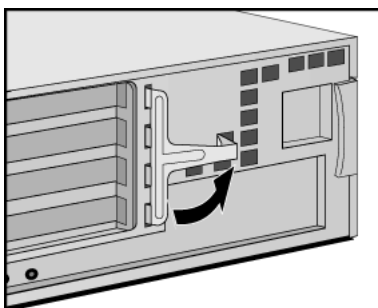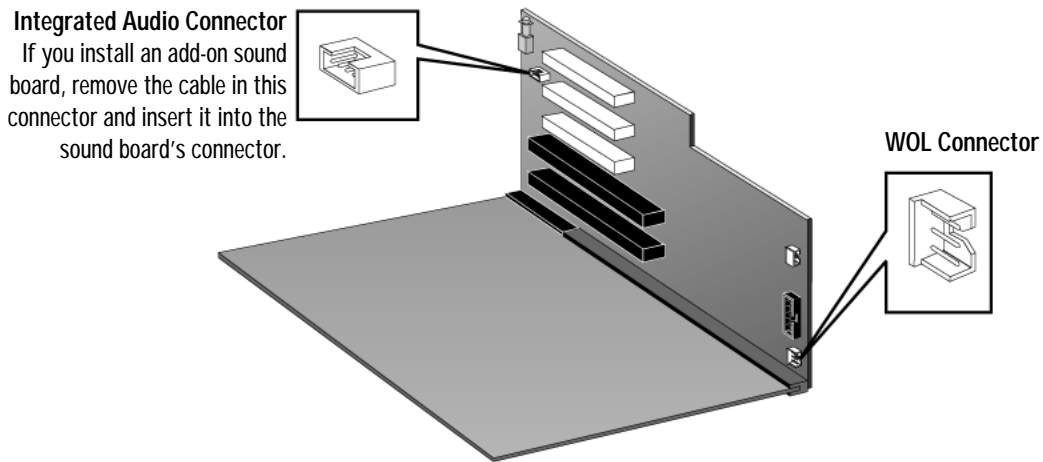
4 Remove the slot cover.

5 Aligning the board carefully, slide it into position and press it firmly into the slot.

6 If you slid out the system board to allow access to a lower slot, replace it.

7 Replace the retaining bracket.

8 The accessory board may need a special connection, such as:

- WOL (Wake on LAN) connector to the Network board.
- CD-ROM drive to the sound board (if you no longer want to use the integrated audio).

Integrated Audio Connector
If you install an add-on sound board, remove the cable in this connector and insert it into the sound board's connector.

WOL Connector

For more information, refer to the documentation that came with the accessory board. The necessary cables are usually provided with the accessory board.

NOTE

If you install a network board and connect it to the WOL connector, you must enable the `Suspend Wake-Up/Integrated Network` and/or `Integrated Network` fields in the `Power` menu of the PC's *Setup* program. This only applies if the network board supports these modes. To enter the *Setup* program, press F2 during startup.

If you install an add-on sound board (and you no longer want to use the integrated audio), you must set the `Integrated Audio Interface` in the `Advanced` menu of the *Setup* program to `Disabled`.

9 Replace the cover (described in this chapter).

Configuring Accessory Boards with Plug and Play

Plug and Play is an industry standard for automatically configuring your PC's hardware resources and the accessory boards installed in it. Your PC has configurable support for Plug and Play in the BIOS.

All PCI accessory boards are Plug and Play, although not all ISA boards are. Check the accessory board's documentation if you are unsure.

When you start your PC after installing an accessory board, the Plug and Play BIOS automatically detects which hardware resources (IRQs, DMAs, memory ranges, and I/O addresses) are used by PC components (such as the keyboard, the communications ports, network adapters, and accessory boards).

Windows 95 and Windows 98

Operating systems that support Plug and Play, such as Windows 95 and Windows 98, will automatically detect a newly installed Plug and Play accessory board and install the driver for this device, if the driver is available.

Windows NT 4.0

For operating systems that do not support Plug and Play, such as Windows NT 4.0, refer to the operating system documentation for information about installing accessory boards.

In Windows NT 4.0, click the **Start** button then click **Help**. You can use the contents or index to find information about installing devices. Windows NT 4.0 helps you through the installation of devices such as modems and sound boards.

NOTE

After installing a new device in Windows NT 4.0, you must re-install the Microsoft Service Pack to update the operating system for your PC. To do this, click the **Start** button then select **Programs – Windows NT Update**.

Configuring non-Plug and Play ISA Accessory Boards

If you install an ISA accessory board that is not Plug and Play, you will need to configure the board before your PC can use it. For instructions about configuring the board, refer to the documentation that came with the board.

For guidelines on available IRQs and I/O addresses in your PC, refer to page 119. Some operating systems, such as Windows 95, can display the IRQs and I/O addresses currently used by your PC. Refer to the operating system documentation for more information.

Refer to the documentation supplied with the operating system for details on your operating system's capabilities and restrictions concerning non-Plug and Play accessory boards.

Resetting the PC's Configuration Data

If your PC is having difficulty recognizing the ISA board, try resetting the PC's data configuration. This will clear any old configuration data that is no longer used. To do this, enter the PC's *Setup* program, set the **Reset Configuration Data** parameter to **Yes**, and restart the PC. To enter the *Setup* program, press **F2** during startup.

Replacing the Processor

1 Remove the computer's cover (described in this chapter).
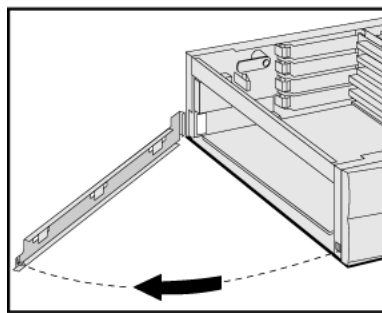
2 Remove the old processor.
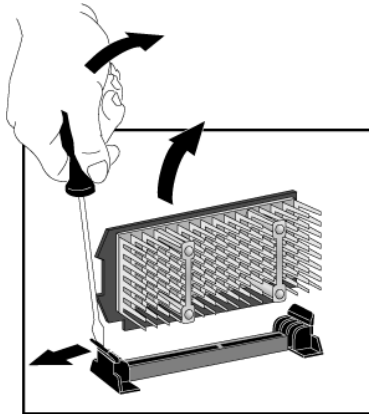
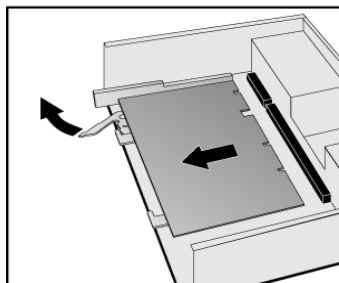**3** Install the new processor and clip it into place.
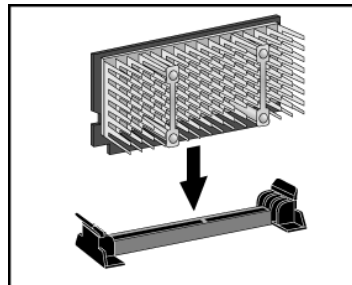
4 If the new processor is a different speed, ensure that the system board switches are correctly set for your processor speed. (The correct switch settings are indicated on the system board.)

5 Replace the cover (described in this chapter).

6 Ensure that the latest version of BIOS is installed on your PC. To learn which version of BIOS is currently installed on your PC, press **ESC** during startup. To get the latest BIOS version for your PC, connect to the web site **www.hp.com/go/vectrasupport**.

Replacing the System Board

1 Remove the computer's cover (described in this chapter).
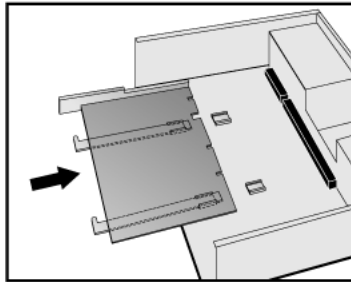
2 Remove the lower bracket.

3 Remove the main memory and processor from the old system board (described in this chapter).
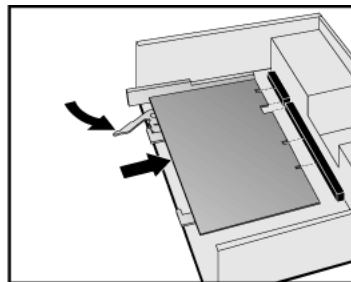
4 Remove the old system board.

5 First ensure the lever is open, then carefully slide in the new system board, aligning the rails and the rear connector bracket correctly.

6 Pushing on the lever and on the system board edge, slide the system board firmly into place. Ensure the connectors are well aligned and fully engaged.

7 Replace the main memory and processor in the new system board (described in this chapter).
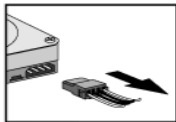
8 Replace the lower bracket.
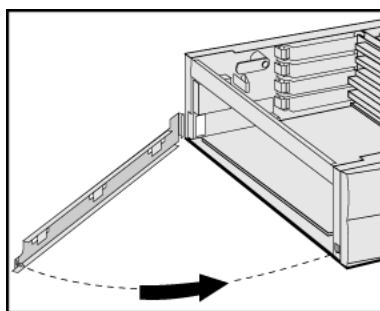
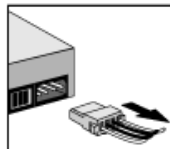9 Replace the cover (described in this chapter).

Replacing the Power Supply

WARNING

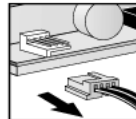**To avoid electric shock, do not open the power supply. There are no user-serviceable parts inside.**

1   Remove the computer's cover (described in this chapter).
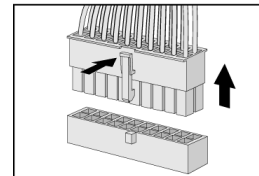
2   Remove *all* internal power supply connectors.

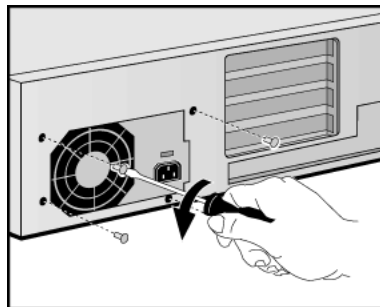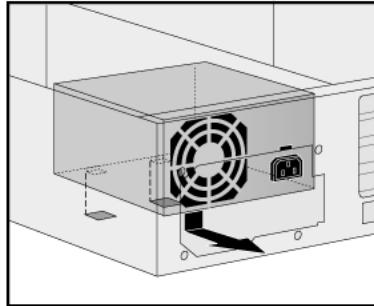|			
Hard drive(s)	DVD/CD-ROM drive(s)	Floppy drive	Main power (located on backplane near power supply)

3   Remove the hard drive tray (described in this chapter).
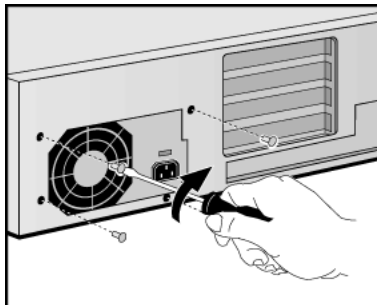
4   Remove the four screws securing the power supply.

5   Slide the old power supply forward and remove it.

6 Insert the new power supply (lining up the metal catches).

7 Replace the four screws to secure the power supply.

8 Re-install the hard drive tray (described in this chapter).

9 Reconnect *all* internal power supply connectors.

10 Replace the cover (described in this chapter).

11 Select the correct voltage setting for your country.

Changing the Battery

There is a danger of explosion if the battery is incorrectly installed. For your safety, never attempt to recharge, disassemble, or burn the old battery. Replace the battery only with the same or equivalent type recommended by the manufacturer. The battery in this PC is a lithium battery which does not contain heavy metals, nevertheless, in order to protect the environment, do not dispose of batteries in household waste. Please return used batteries to the shop from which you bought them, or to the dealer from which you purchased your PC, or to HP, so that they can either be recycled or disposed of in an environmentally sound way. Returned used batteries will be accepted free of charge.

You should order replacement battery HP 1420-0356 from your local Sales and Service office, or a "CR2032 type" battery, which is available from most local stores.

After removing the computer's cover:

1 Remove the old battery by pressing the retaining clip with a screwdriver and lifting the battery clear of the battery holder.
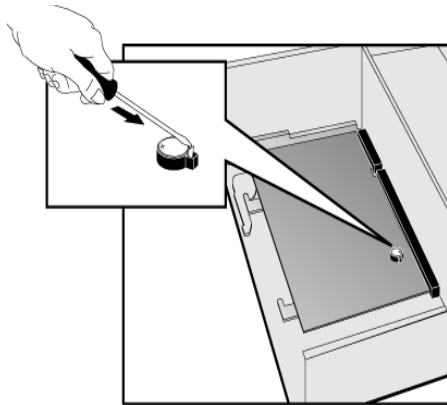
2 Place the new battery in the battery holder, with the "+" sign on top, and ensure it is properly seated.

After installing a replacement battery, replace the computer's cover and run the *Setup* program to reconfigure the computer. You enter *Setup* by pressing **F2** at startup.

Installing a Security Cable

You can secure the PC to your desk, or any other fixed object, using a Kensington™ security cable. Using a security cable will also lock the cover onto the PC.

The PC has a slot at the rear for securing the cable.

1 Insert the lock into the slot located at the rear of the PC.

2 Turn the key to lock the cable to the PC.

3 Remove the key and store it in a safe place.
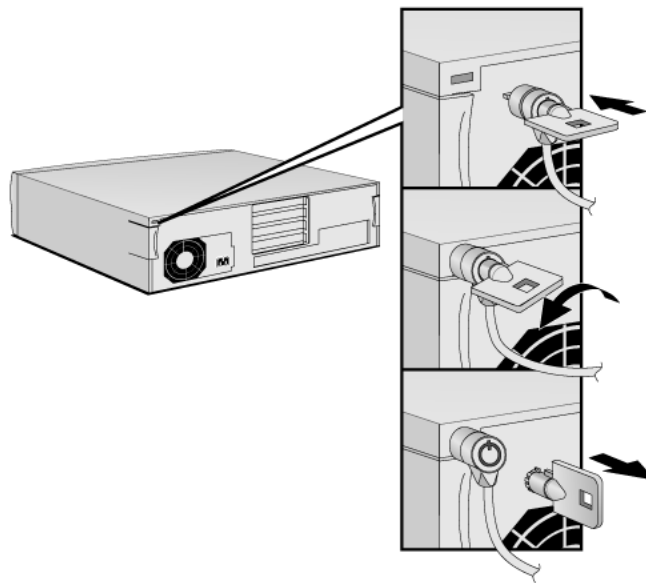
NOTE   The Kensington™ security cable is not an HP accessory. It cannot be ordered from HP. Contact your reseller for more information.

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