

Product: 2005 HP Pavilion dv4000/Compaq Presario V4000 Notebook PC Service
Full Download: <https://www.arepairmanual.com/downloads/2005-hp-pavilion-dv4000compaq-presario-v4000-notebook-pc-service-repair-workshop-manual/>



Maintenance and Service Guide

HP Pavilion dv4000 Notebook PC
Compaq Presario V4000 Notebook PC

Document Part Number: 377367-003

October 2005

This guide is a troubleshooting reference used for maintaining and servicing the computer. It provides comprehensive information on identifying computer features, components, and spare parts; troubleshooting computer problems; and performing computer disassembly procedures.

Sample of manual. Download All 266 pages at:
<https://www.arepairmanual.com/downloads/2005-hp-pavilion-dv4000compaq-p>

Product: 2005 HP Pavilion dv4000/Compaq Presario V4000 Notebook PC Service
Full Download: <https://www.arepairmanual.com/downloads/2005-hp-pavilion-dv4000compaq-presario-v4000-notebook-pc-service-repair-workshop-manual/>
© Copyright 2005 Hewlett-Packard Development Company, L.P.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. Intel, Pentium, and Celeron are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. SD Logo is a trademark of its proprietor.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Maintenance and Service Guide
HP Pavilion dv4000 Notebook PC
Compaq Presario V4000 Notebook PC
Third Edition October 2005
First Edition March 2005
Document Part Number: 377367-003

Sample of manual. Download All 266 pages at:
<https://www.arepairmanual.com/downloads/2005-hp-pavilion-dv4000compaq-p>

Contents

1 Product Description

1.1 Features	1-2
1.2 Resetting the Computer.	1-4
1.3 Power Management.	1-5
1.4 External Components	1-6
1.5 Design Overview.	1-26

2 Troubleshooting

2.1 Computer Setup.	2-1
Accessing Computer Setup.	2-2
Computer Setup Defaults	2-2
Selecting from the File Menu	2-3
Selecting from the Security Menu	2-4
Selecting from the Tools Menu.	2-5
Selecting from the Advanced Menu	2-6
2.2 Troubleshooting Flowcharts	2-7

3 Illustrated Parts Catalog

3.1	Serial Number Location	3-1
3.2	Computer Major Components	3-2
3.3	Display Assembly Subcomponents	3-14
	HP Pavilion dv4000 Models	3-14
3.4	Display Assembly Subcomponents	3-16
	Compaq Presario V4000 Models	3-16
3.5	Miscellaneous Doors/Covers Kit Spare Part Information	3-18
3.6	Miscellaneous Cable Kit	3-20
3.7	Mass Storage Devices	3-22
3.8	Miscellaneous (Not Illustrated)	3-24
3.9	Sequential Part Number Listing	3-26

4 Removal and Replacement Preliminaries

4.1	Tools Required	4-1
4.2	Service Considerations	4-2
	Plastic Parts	4-2
	Cables and Connectors	4-2
4.3	Preventing Damage to Removable Drives	4-3
4.4	Preventing Electrostatic Damage	4-4
4.5	Packaging and Transporting Precautions	4-5
4.6	Workstation Precautions	4-6
4.7	Grounding Equipment and Methods	4-7

5 Removal and Replacement Procedures

5.1	Serial Number	5-2
5.2	Disassembly Sequence Chart	5-3
5.3	Preparing the Computer for Disassembly	5-5
5.4	Hard Drive	5-7
5.5	Computer Feet	5-11
5.6	Optical Drive	5-13
5.7	Memory Module	5-15
5.8	Mini PCI Communications Module	5-18
5.9	RTC Battery	5-20
5.10	Heat Sink	5-21
5.11	Processor	5-24
5.12	Switch Cover	5-26
5.13	Keyboard	5-29
5.14	Display Assembly	5-34
5.15	Top Cover	5-50
5.16	Base Enclosure	5-54
5.17	Modem Board	5-58
5.18	System Board	5-60
5.19	Fan Assembly	5-73
5.20	Speakers	5-76
5.21	USB Board	5-78
5.22	Bluetooth Module	5-81

6 Specifications

A Connector Pin Assignments

B Power Cord Set Requirements

C Screw Listing

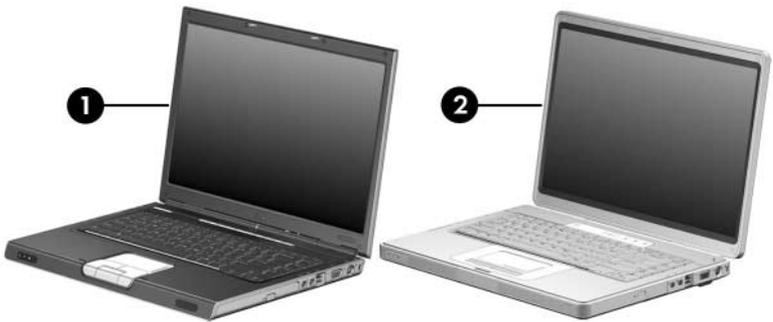
D Display Component Recycling

Index

1

Product Description

The HP Pavilion dv4000 Notebook PC ❶ and Compaq Presario V4000 Notebook PC ❷ offer advanced modularity, Intel® Pentium® M and Celeron® M processors, and extensive multimedia support.



HP Pavilion dv4000 Notebook PC and Compaq Presario V4000 Notebook PC

1.1 Features

- Intel Pentium M 2.00-, 1.73-, 1.60-, or 1.50-GHz processors, or Intel Celeron M 1.50-, 1.40-, or 1.30-GHz processors, varying by computer model
- 15.4-inch, WXGA, TFT (1280 × 800) with BrightView display, or 15.4-inch, WXGA, TFT (1280 × 800) display, varying by computer model
- 100-, 80-, 60-, or 40-GB high-capacity hard drive, varying by computer model
- 256-MB DDR synchronous DRAM (SDRAM) at 333 MHz, expandable to 2.0 GB
- Microsoft® Windows® XP Home Edition or Windows XP Professional, varying by computer model
- Full-size Windows keyboard with embedded numeric keypad
- TouchPad pointing device, including dedicated horizontal (Compaq Presario V4000 models) and vertical scroll regions
- Integrated 10Base-T/100Base-TX Ethernet local area network (LAN) network interface card (NIC) with RJ-45 jack
- Integrated high-speed 56K modem with RJ-11 jack
- Integrated wireless support for Mini PCI IEEE 802.11b/g WLAN device (select models only)
- Support for one Type I or Type II PC Card slot, with support for both 32-bit (CardBus) and 16-bit PC Cards
- Support for ExpressCard slot
- External 65-watt AC adapter with 3-wire power cord
- 12- or 6-cell Li-Ion battery pack, varying by computer model
- Stereo speakers
- Volume up, volume mute, and volume down buttons
- QuickPlay buttons (select models only)
- Support for the following optical drives:
 - ❑ DVD±RW and CD-RW Combo Drive
 - ❑ DVD/CD-RW Combo Drive



Numerous references are made throughout this *Maintenance and Service Guide* to “full-featured” and “defeatured” models.

A model is considered to be full-featured if it has 4 Universal Serial Bus ports and the following components:

- Digital Media Slot/Memory Reader
- Expansion port
- ExpressCard slot
- IEEE 1394 port
- Infrared port
- Quick Launch buttons (HP Pavilion dv4000 models only)

A computer model is considered to be defeatured if it has only 2 Universal Serial Bus ports and none of the components listed above.

■ Connectors:

- Audio-in (microphone)
- Audio-out (headphone)
- Digital Media Slot (full-featured models only)
- Expansion port (full-featured models only)
- ExpressCard slot (full-featured models only)
- External monitor
- IEEE 1394 (full-featured models only)
- Infrared (full-featured models only)
- PC Card
- Power
- Primary battery
- RJ-11 (modem)
- RJ-45 (network)
- S-Video-out
- Serial port (full-featured models only)
- Smart card
- Universal Serial Bus (USB) v. 2.0 (4 ports on full-featured models, 2 ports on defeatured models)

1.2 Resetting the Computer

If the computer you are servicing has an unknown password, follow these steps to set a new password. These steps also clear CMOS:

1. Enter an incorrect password and press **enter**.
2. Repeat step 1 two more times.

After the third entry of the incorrect password, the computer responds with a “System Disabled” message and provides an override password.

3. On another computer running Windows XP, download the unlock6.exe utility from the HP Channel Services Network (CSN) Web site at <http://www.hp.com/partners/csn>. Copy the unlock6.exe utility into the root directory (C:\ drive).
4. Access MS-DOS by clicking **Start > All Programs > Accessories > Command Prompt**.
5. Enter unlock6 xxxx 0, where “xxxx” is the password generated by the computer in step 2.

The computer responds with another system-generated password.

6. Enter the password generated in step 5 on the disabled computer to enter the system BIOS. In the BIOS, navigate to the Security tab and Administrator Password. Enter the password generated in step 5 as the current password. Enter a new password to change it.
7. The password has been reset and all CMOS settings have been cleared.

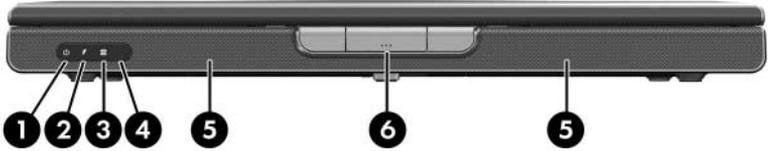
1.3 Power Management

The computer comes with power management features that extend battery operating time and conserve power. The computer supports the following power management features:

- Standby
- Hibernation
- Setting customization by the user
- Hotkeys for setting the level of performance
- Battery calibration
- Lid switch standby/resume
- Power button
- Advanced Configuration and Power Management (ACPM) compliance

1.4 External Components

The external components on the front of the computer are shown below and described in Table 1-1. Depending on your computer model, component locations may vary.

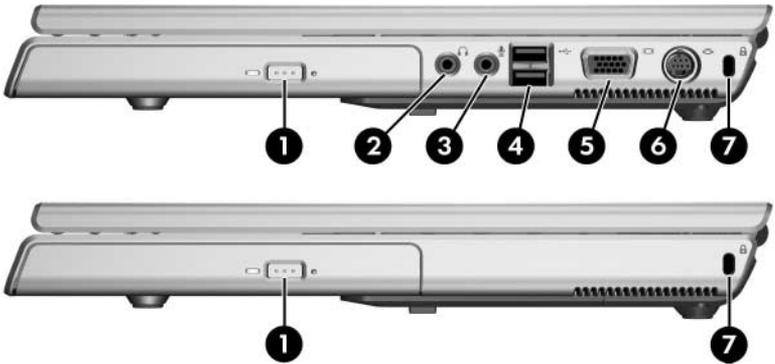


Front Components

Table 1-1
Front Components

Item	Component	Function
1	Power light	<ul style="list-style-type: none"> ■ On: Computer is turned on. ■ Blinking: Computer is in standby. ■ Off: Computer is off or in hibernation.
2	Battery light	<ul style="list-style-type: none"> ■ On: The battery pack is charging. ■ Blinking: The battery pack has reached a low-battery condition. ■ Off: The battery pack is fully charged or not inserted.
3	Integrated Drive Electronics (IDE) drive light	On or blinking: The internal hard drive or an optical drive is being accessed.
4	Consumer infrared (IR) lens (select models only)	Links the computer to an optional remote control.
5	Speakers	Produce stereo sound.
6	Display release button	Opens the computer.

The external components on the right side of the HP Pavilion dv4000 are shown below and described in Table 1-2. Depending on your computer model, component locations may vary.

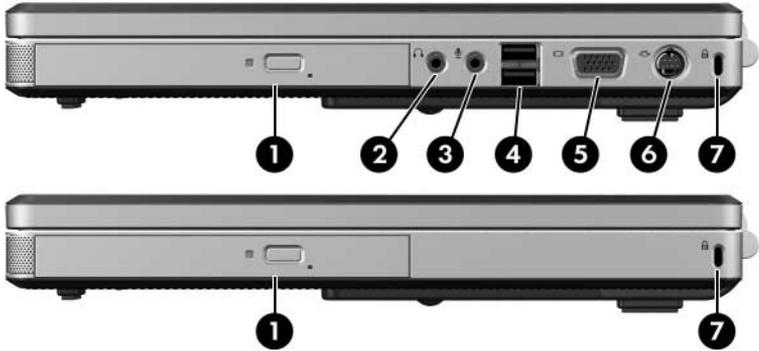


Right-Side Components, HP Pavilion dv4000

Table 1-2
Right-Side Components, HP Pavilion dv4000

Item	Component	Function
1	Optical drive	Supports an optical disc, such as a CD or DVD.
2	Audio-out (headphone) jack (full-featured models only)	Connects an optional headphone or powered stereo speakers. Also connects the audio function of an audio/video device, such as a television or VCR.
3	Audio-in (microphone) jack (full-featured models only)	Connects an optional stereo microphone.
4	USB ports (full-featured models only)	Connect optional USB devices.
	 Number of USB ports vary by model.	
5	Monitor port (full-featured models only)	Connects an optional VGA monitor or projector.
6	S-Video-out jack (full-featured models only)	Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.
7	Security cable slot	Attaches an optional security cable to the computer.
	 The purpose of security solutions is to act as a deterrent. These solutions do not prevent the product from being mishandled or stolen.	

The external components on the right side of the Compaq Presario V4000 are shown below and described in Table 1-3. Depending on your computer model, component locations may vary.

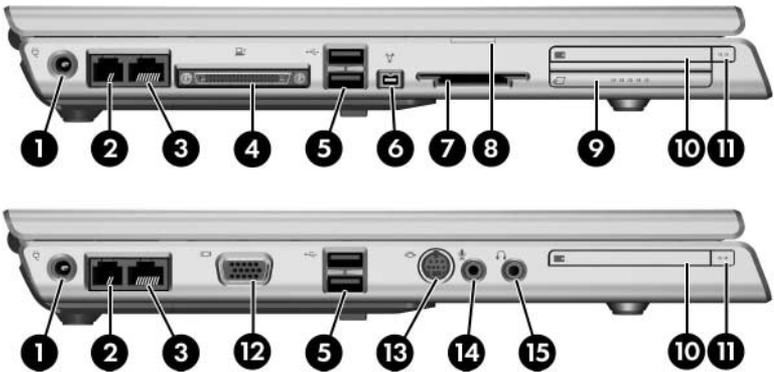


Right-Side Components, Compaq Presario V4000

Table 1-3
Right-Side Components, Compaq Presario V4000

Item	Component	Function
1	Optical drive	Supports an optical disc, such as a CD or DVD.
2	Audio-out (headphone) jack (full-featured models only)	Connects an optional headphone or powered stereo speakers. Also connects the audio function of an audio/video device, such as a television or VCR.
3	Audio-in (microphone) jack (full-featured models only)	Connects an optional stereo microphone.
4	USB ports (full-featured models only)	Connect optional USB devices.
	 Number of USB ports vary by model.	
5	Monitor port (full-featured models only)	Connects an optional VGA monitor or projector.
6	S-Video-out jack (full-featured models only)	Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.
7	Security cable slot	Attaches an optional security cable to the computer.
	 The purpose of security solutions is to act as a deterrent. These solutions do not prevent the product from being mishandled or stolen.	

The external components on the left side of the HP Pavilion dv4000 are shown below and described in Table 1-4. Depending on your computer model, component locations may vary.



Left-Side Components, HP Pavilion dv4000

Table 1-4

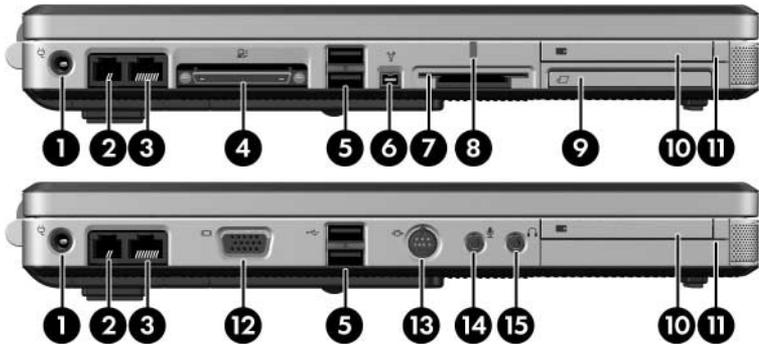
Left-Side Components, HP Pavilion dv4000

Item	Component	Function
1	Power connector	Connects the AC adapter cable.
2	RJ-11 (modem) jack	Connects a modem cable (not included).
3	RJ-45 (network) jack	Connects a network cable (not included).
4	Expansion port 2 (full-featured models only)	Connects the computer to an optional docking device.
	 The computer has only one expansion port. The term <i>expansion port 2</i> describes the type of expansion port.	
5	USB ports	Connect optional USB devices.

Table 1-4
Left-Side Components, HP Pavilion dv4000 (Continued)

Item	Component	Function
6	1394 port (4-pin; full-featured models only)	Connects an optional 1394a device such as a scanner, a digital camera, or a digital camcorder.
7	Digital Media Slot (full-featured models only)	Supports the following optional digital cards: SD (Secure Digital) Memory Card, SD I/O Card, Memory Stick, Memory Stick Pro, MultiMediaCard, xD-Picture Card, and SmartMedia.
8	Digital Media Slot light (full-featured models only)	On: An optional digital card is being accessed.
9	ExpressCard slot (full-featured models only)	Supports an optional ExpressCard.
10	PC Card slot	Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card.
11	PC Card eject button	Ejects PC Cards from the PC Card slot.
12	Monitor port (full-featured models only)	Connects an optional VGA monitor or projector.
13	S-Video-out jack (full-featured models only)	Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.
14	Audio-in (microphone) jack (full-featured models only)	Connects an optional stereo microphone.
15	Audio-out (headphone) jack (defeatured models only)	Connects an optional headphone or powered stereo speakers. Also connects the audio function of an audio/video device, such as a television or VCR.

The external components on the left side of the Compaq Presario V4000 are shown below and described in Table 1-5. Depending on your computer model, component locations may vary.



Left-Side Components, Compaq Presario V4000

Table 1-5

Left-Side Components, Compaq Presario V4000

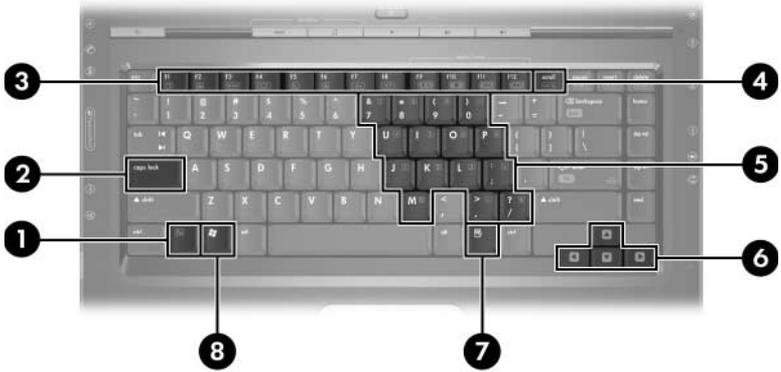
Item	Component	Function
1	Power connector	Connects the AC adapter cable.
2	RJ-11 (modem) jack	Connects a modem cable (not included).
3	RJ-45 (network) jack	Connects a network cable (not included).
4	Expansion port 2 (full-featured models only)	Connects the computer to an optional docking device.
	 The computer has only one expansion port. The term <i>expansion port 2</i> describes the type of expansion port.	
5	USB ports	Connect optional USB devices.
	 Number of USB ports vary by model.	

Table 1-5

Left-Side Components, Compaq Presario V4000 (Continued)

Item	Component	Function
6	1394 port (4-pin; full-featured models only)	Connects an optional 1394a device such as a scanner, a digital camera, or a digital camcorder.
7	Memory Reader (full-featured models only)	Supports the following optional digital cards: SD (Secure Digital) Memory Card, SD I/O Card, Memory Stick, Memory Stick Pro, MultiMediaCard, xD-Picture Card, and SmartMedia.
8	Memory Reader light (full-featured models only)	On: An optional digital card is being accessed.
9	ExpressCard slot (full-featured models only)	Supports an optional ExpressCard.
10	PC Card slot	Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card.
11	PC Card eject button	Ejects PC Cards from the PC Card slot.
12	Monitor port (full-featured models only)	Connects an optional VGA monitor or projector.
13	S-Video-out jack (defeatured models only)	Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.
14	Audio-in (microphone) jack (defeatured models only)	Connects an optional stereo microphone.
15	Audio-out (headphone) jack (defeatured models only)	Connects an optional headphone or powered stereo speakers. Also connects the audio function of an audio/video device, such as a television or VCR.

The standard keyboard components of the computer are shown below and described in Table 1-6.



Standard Keyboard Components

Table 1-6
Standard Keyboard Components

Item	Component	Function
1	fn key	Combines with other keys to perform system tasks as hotkeys. For example, pressing fn+f7 decreases screen brightness.
2	caps lock key	Enables caps lock and turns on the caps lock light.
3	f1 to f12 keys (12)	Perform system and application tasks. When combined with fn , function keys perform additional tasks as hotkeys.
4	num lock key	Enables numeric lock, turns on the embedded numeric keypad, and turns on the num lock light.
5	Embedded numeric keypad keys (15)	Can be used like the keys on an external numeric keypad.
6	Arrow keys	Move the cursor around the screen.
7	Windows applications key	Displays a shortcut menu for items beneath the pointer.
8	Windows logo key	Displays the Microsoft Windows Start menu.

The top components on HP Pavilion dv4000 models are shown below and described in Table 1-7.



Top Components, HP Pavilion dv4000 Models

Table 1-7

Top Components, HP Pavilion dv4000

Item	Component	Function
1	Power light	<ul style="list-style-type: none"> ■ On: Computer is turned on. ■ Blinking: Computer is in standby. ■ Off: Computer is off or in hibernation.
2	Power button	<p>When the computer is</p> <ul style="list-style-type: none"> ■ Off, press to start the computer. ■ On, briefly press to initiate hibernation. ■ In standby, briefly press to resume from standby. ■ In hibernation, briefly press to restore from hibernation.

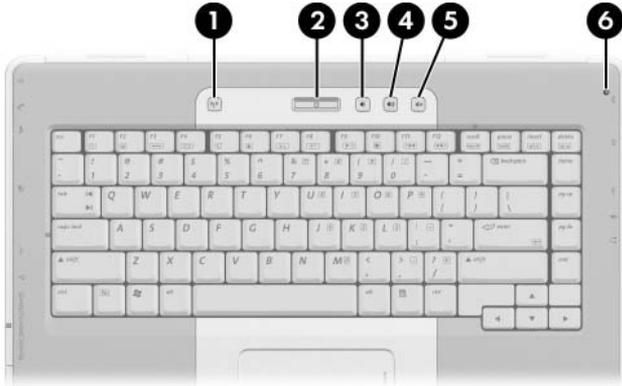


If the system has stopped responding and Windows shutdown procedures cannot be used, press and hold for at least 4 seconds to turn off the computer.

Table 1-7
Top Components, HP Pavilion dv4000 (Continued)

Item	Component	Function
3	Quick Launch buttons (select models only)	Launch default multimedia, digital imaging, or music applications (vary by model).
4	Volume mute button	Mutes or restores volume.
5	Wireless light (select models only)	On: One or more internal wireless devices have been turned on.  To establish a wireless connection, a wireless network must already be set up.
6	Wireless button (select models only)	Turns the wireless functionality on or off, but does not create a wireless connection.  To establish a wireless connection, a wireless network must already be set up.
7	Volume down button	Decreases system volume.
8	Volume up button	Increases system volume.
9	Display switch	Initiates standby when the computer is closed.

The top components on Compaq Presario V4000 models are shown below and described in Table 1-8.

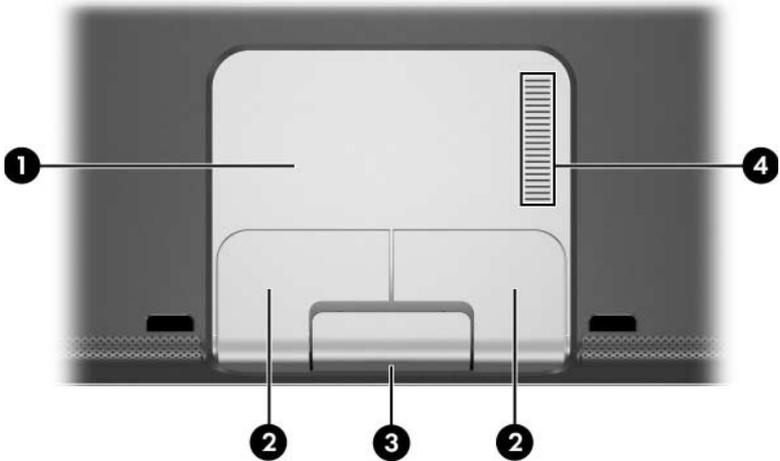


Top Components, Compaq Presario V4000 Models

Table 1-8
Top Components, Compaq Presario V4000 Models

Item	Component	Function
1	Wireless button (select models only)	Turns the wireless functionality on or off, but does not create a wireless connection.
	 To establish a wireless connection, a wireless network must already be set up.	
2	Power button	When the computer is <ul style="list-style-type: none"> ■ Off, press to start the computer. ■ On, briefly press to initiate hibernation. ■ In standby, briefly press to resume from standby. ■ In hibernation, briefly press to restore from hibernation.
	 If the system has stopped responding and Windows shutdown procedures cannot be used, press and hold for at least 4 seconds to turn off the computer.	
3	Volume down button	Decreases system volume.
4	Volume mute button Volume mute light	Mutes or restores volume. On: Volume is muted.
5	Volume up button	Increases system volume.
6	Display switch	Initiates standby when the computer is closed.

The HP Pavilion dv4000 computer TouchPad components are shown below and described in Table 1-9.



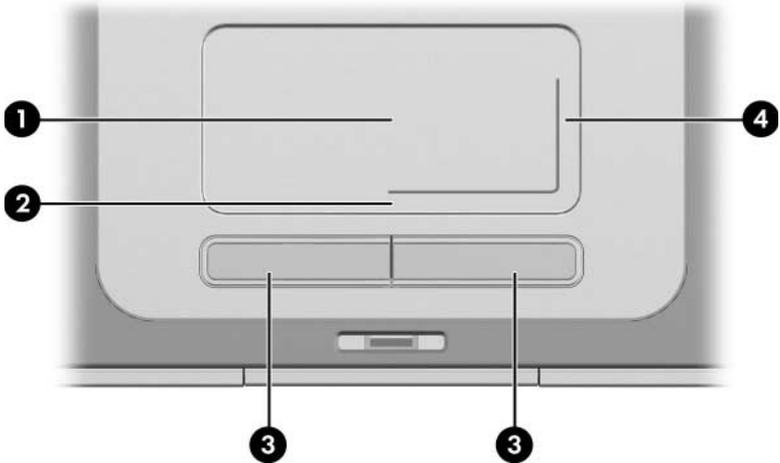
TouchPad Components, HP Pavilion dv4000

Table 1-9

TouchPad Components, HP Pavilion dv4000

Item	Component	Function
1	TouchPad	Moves the pointer.
2	Left and right TouchPad buttons	Function like the left and right buttons on an external mouse.
3	Display release button	Opens the computer.
4	TouchPad vertical scroll zone	Scrolls up or down.

The Compaq Presario V4000 computer TouchPad components are shown below and described in Table 1-10.



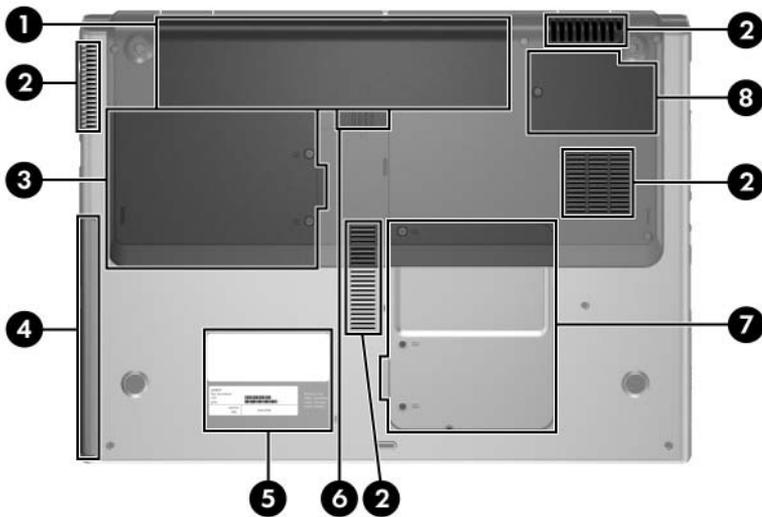
TouchPad Components, Compaq Presario V4000

Table 1-10

TouchPad Components, Compaq Presario V4000

Item	Component	Function
1	TouchPad	Moves the pointer.
2	TouchPad horizontal scroll zone	Scrolls left or right.
3	Left and right TouchPad buttons	Function like the left and right buttons on an external mouse.
4	TouchPad vertical scroll zone	Scrolls up or down.

The external components on the bottom of the computer are shown below and described in Table 1-11.



Bottom Components

Table 1-11

Bottom Components

Item	Component	Function
1	Battery bay	Holds a battery pack.
2	Vents (4)	Provide airflow to cool internal components.
	 To prevent overheating, do not obstruct vents. Do not allow a hard surface, such as a printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.	
3	Hard drive bay	Holds the internal hard drive.

Sample of manual. Download All 266 pages at:

<https://www.arepairmanual.com/downloads/2005-hp-pavilion-dv4000-compaq-p>