

Product: 2006 HP Pavilion dv8000/dv8200 Notebook PC Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/2006-hp-pavilion-dv8000dv8200-notebook-pc-service-repair-workshop-manual/>



Maintenance and Service Guide

HP Pavilion dv8200 Notebook PC
HP Pavilion dv8000 Notebook PC

Document Part Number: 403248-002

June 2006

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 264 pages at:
<https://www.arepairmanual.com/downloads/2006-hp-pavilion-dv8000dv8200-n>

Product: 2006 HP Pavilion dv8000/dv8200 Notebook PC Service Repair Workshop
Full Download: <https://www.arepairmanual.com/downloads/2006-hp-pavilion-dv8000dv8200-notebook-pc-service-repair-workshop-manual/>

© Copyright 2005, 2006 Hewlett-Packard Development Company, L.P.

Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation. AMD, Turion, Sempron, and combinations thereof, are trademarks of Advanced Micro Devices, Inc. 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 dv8200 Notebook PC
HP Pavilion dv8000 Notebook PC
Second Edition: June 2006
First Edition: November 2005
Document Part Number: 403248-002

Sample of manual. Download All 264 pages at:
<https://www.arepairmanual.com/downloads/2006-hp-pavilion-dv8000dv8200-n>

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.	1-24

2 Troubleshooting

2.1 Computer Setup.	2-1
Using Computer Setup	2-1
Selecting from the File Menu	2-2
Selecting from the Security Menu	2-3
Selecting from the Diagnostics Menu	2-4
Selecting from the System Configuration Menu.	2-5
2.2 Troubleshooting Flowcharts	2-6

3 Illustrated Parts Catalog

3.1	Serial Number Location	3-1
3.2	Computer Major Components	3-2
3.3	Display Assembly Subcomponents	3-12
3.4	Plastics Kit	3-14
3.5	Cable Kit	3-15
3.6	Mass Storage Devices	3-16
3.7	Miscellaneous (Not Illustrated)	3-18
3.8	Sequential Part Number Listing	3-20

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	Memory Module	5-11
5.7	Mini PCI Communications Module	5-15
5.8	RTC Battery	5-17
5.9	Optical Drive	5-19
5.10	Switch Cover	5-21
5.11	Keyboard Assembly Frame	5-23
5.12	LED Board	5-27
5.13	Keyboard	5-29
5.14	Display Assembly	5-31
5.15	Top Cover	5-43
5.16	System Board	5-50
5.17	Bluetooth Module	5-57
5.18	Modem Connector Cable	5-60
5.19	USB Board	5-62
5.20	Speakers	5-64
5.21	Heat Sink	5-67
5.22	Processor	5-70
5.23	Fan Assembly	5-72
5.24	PC Card Assembly	5-76

6 Specifications

A Screw Listing

B Software Update and Recovery

C Display Component Recycling

D Connector Pin Assignments

E Power Cord Set Requirements

Index

1

Product Description

The HP Pavilion dv8200 Notebook PC and HP Pavilion dv8000 Notebook PC offer advanced modularity, AMD Mobile Turion™ 64 Mobile Technology and Mobile AMD Sempron™ processors, and extensive multimedia support.



HP Pavilion dv8200 Notebook PC and HP Pavilion dv8000 Notebook PC

1.1 Features

- The following processors, varying by computer model:
 - ❑ AMD Turion 64 ML-44 (2.4-GHz)
 - ❑ AMD Turion 64 ML-40 (2.2-GHz)
 - ❑ AMD Turion 64 ML-40 (2.2-GHz)
 - ❑ AMD Turion 64 ML-37 (2.0-GHz)
 - ❑ AMD Turion 64 ML-34 (1.8-GHz)
 - ❑ AMD Turion 64 ML-32 (1.8-GHz)
 - ❑ AMD Turion 64 ML-30 (1.6-GHz)
 - ❑ Mobile AMD Sempron 3300 (2.0-GHz)
 - ❑ Mobile AMD Sempron 3100 (1.8-GHz)
- 17.0-inch, WSXGA+, TFT (1680 × 1050) with BrightView or 17.0-inch, WXGA+, TFT (1440 × 900) with BrightView display, varying by computer model
- 120-, 100-, or 80-GB high-capacity hard drive, varying by computer model
- 256-MB DDR1 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 full-size numeric keypad
- TouchPad pointing device, including dedicated vertical scroll region
- 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 802.11a/b/g WLAN device

- 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
- 8-cell Li-Ion battery
- Stereo speakers
- Volume up, volume mute, and volume down buttons
- QuickPlay buttons
- Support for the following optical drives:
 - ❑ DVD±RW and CD-RW Double-Layer Combo Drive with LightScribe
 - ❑ DVD±RW and CD-RW Double-Layer Combo Drive
 - ❑ DVD/CD-RW Combo Drive
- Connectors:
 - ❑ Audio-in (microphone)
 - ❑ Audio-out (headphone)
 - ❑ Digital Media Slot
 - ❑ Expansion port 2
 - ❑ ExpressCard slot
 - ❑ External monitor
 - ❑ IEEE 1394
 - ❑ PC Card
 - ❑ Power
 - ❑ RJ-11 (modem)
 - ❑ RJ-45 (network)
 - ❑ S-Video-out
 - ❑ Universal Serial Bus (USB) v. 2.0 (4 ports)

1.2 Resetting the Computer

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

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

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

3. Access MS/DOS by clicking **Start > All Programs > Accessories > Command Prompt**.
4. Enter “unlock6 xxxxx 0,” where “xxxxx” is the password generated by the computer in Step 2.

The computer responds with another system-generated password. This password can be used to reset the computer and clear all CMOS settings.

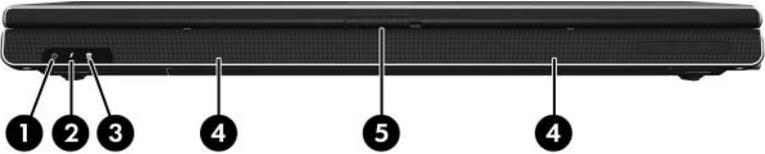
1.3 Power Management

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.

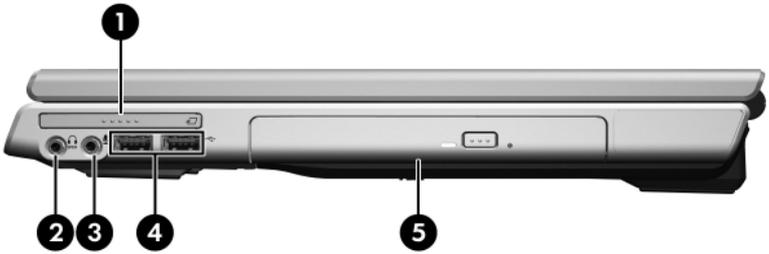


Front Components

Table 1-1
Front Components

Item	Component	Function
1	Power light	<ul style="list-style-type: none"> ■ On: Computer is turned on. ■ Off: Computer is off or in hibernation. ■ Blinking: Computer is in standby.
2	Battery light	<ul style="list-style-type: none"> ■ On: A battery is charging or is close to full charge capacity. ■ Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low-battery condition. ■ Blinking: A battery that is the only available power source has reached a low-battery condition. When the battery reaches a critical low-battery condition, the battery light begins blinking quickly.
3	Drive light	On or blinking: The internal hard drive or an optical drive is being accessed.
4	Speakers	Produce stereo sound.
5	Display release latch	Opens the computer.

The external components on the right side of the computer are shown below and described in Table 1-2.

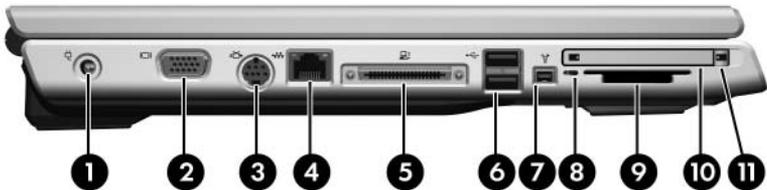


Right-Side Components

Table 1-2
Right-Side Components

Item	Component	Function
1	ExpressCard slot	Supports an optional ExpressCard.
2	Audio-out (headphone) jack	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	Connects an optional stereo microphone.
4	USB ports (2)	Connect optional USB devices.
5	Optical drive	Supports an optical disc, such as a CD or DVD.

The external components on the left side of the computer are shown below and described in Table 1-3.



Left-Side Components

Table 1-3
Left-Side Components

Item	Component	Function
1	Power connector	Connects the AC adapter cable.
2	Monitor port	Connects an optional VGA monitor or projector.
3	S-Video-out jack	Connects the video function of an optional S-Video device, such as a television, VCR, or video capture card.
4	RJ-45 (network) jack	Connects a network cable (not included).

Table 1-3
Left-Side Components (*Continued*)

Item	Component	Function
5	Expansion port 2	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.
6	USB ports (2)	Connect optional USB devices.
7	1394 port (4-pin)	Connects an optional 1394a device such as a scanner, a digital camera, or a digital camcorder.
8	Digital Media Slot light	On: An optional digital card is being accessed.
9	Digital Media Slot	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.
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.

The external components on the rear panel of the computer are shown below and described in Table 1-4.

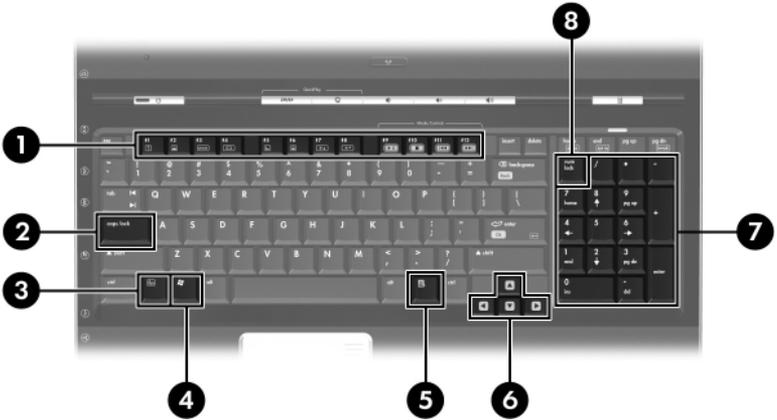


Rear Panel Components

Table 1-4
Rear Panel Components

Item	Component	Function
1	Security cable slot	<p>Attaches an optional security cable to the computer.</p> <p> The purpose of security solutions is to act as a deterrent. These solutions do not prevent the product from being mishandled or stolen.</p>
2	RJ-11 (modem) jack	Connects a modem cable (not included).
3	Battery bay	Holds a battery.
4	Wireless light	<p>On: One or more internal wireless devices have been turned on.</p> <p> To establish a wireless connection, a wireless network must already be set up.</p>
5	Vent	<p>Provides airflow to cool internal components.</p> <p> 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.</p>

The standard keyboard components of the computer are shown below and described in Table 1-5.

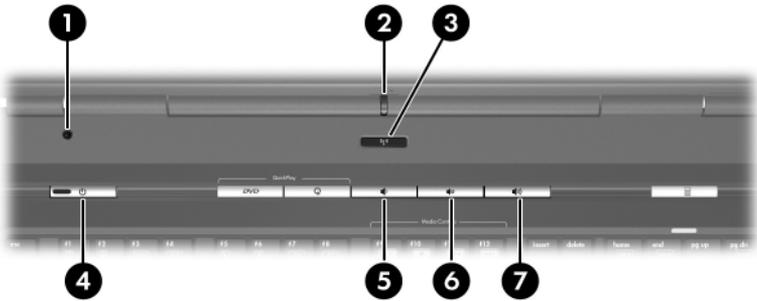


Standard Keyboard Components

Table 1-5
Standard Keyboard Components

Item	Component	Function
1	f1 to f12 keys (12)	Perform system and application tasks. When combined with fn , function keys perform additional tasks as hotkeys.
2	caps lock key	Enables caps lock and turns on the caps lock light.
3	fn key	Combines with other keys to perform system tasks as hotkeys. For example, pressing fn+f7 decreases screen brightness.
4	Windows logo key	Displays the Microsoft Windows Start menu.
5	Windows applications key	Displays a shortcut menu for items beneath the pointer.
6	Arrow keys	Move the cursor around the screen.
7	Numeric keypad keys (16)	Can be used like the keys on an external numeric keypad.
8	num lock key	Enables numeric lock, turns on the embedded numeric keypad, and turns on the num lock light.

The computer top components are shown below and described in Table 1-6.



Top Components

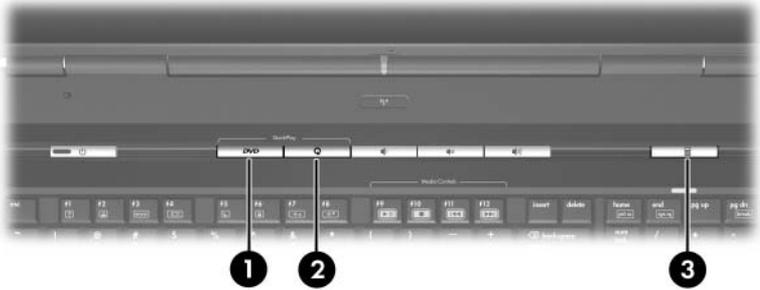
Table 1-6
Top Components

Item	Component	Function
1	Display switch	Initiates standby if the display is closed when the computer is on.
2	Wireless light	On: One or more internal wireless devices have been turned on.  To establish a wireless connection, a wireless network must already be set up.

Table 1-6
Top Components (*Continued*)

Item	Component	Function
3	Wireless button	<p>Turns the wireless functionality on or off, but does not create a wireless connection.</p> <p> To establish a wireless connection, a wireless network must already be set up.</p>
4	Power light Power button	<p>■ On: The computer is on. ■ Blinking: The computer is in standby. ■ Off: The computer is off or in hibernation.</p> <p>When the computer is</p> <p>■ Off, press to turn on the computer. ■ On, press to enter hibernation. ■ In standby, briefly press to exit standby. ■ In hibernation, briefly press to exit hibernation.</p> <p>If the computer has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer.</p>
5	Volume down button	Decreases system volume.
6	Volume mute button	Mutes or restores volume.
7	Volume up button	Increases system volume.

The Quick Play and Quick Launch buttons are shown below and described in Table 1-7.



Top Components

Table 1-7

QuickPlay and Quick Launch Button Components

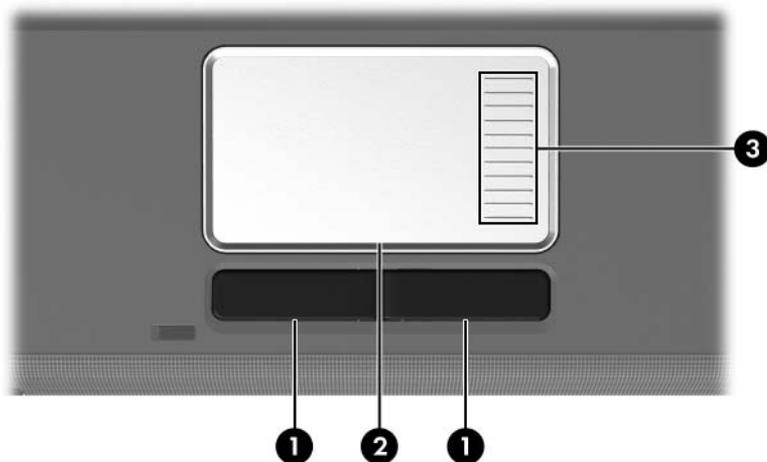
Item	Component	Function
1	DVD button	<p>Default button functions without QuickPlay software:</p> <p>When the computer is</p> <ul style="list-style-type: none"> ■ On: Opens the default DVD application to start a DVD in the optical drive. ■ Off: No function. ■ In standby: Resumes from standby into Windows. ■ In hibernation: Restores from hibernation into Windows. <p>Button functions with QuickPlay software:</p> <p>When the computer is</p> <ul style="list-style-type: none"> ■ On: Opens the default DVD application to start a DVD in the optical drive. ■ Off: Opens QuickPlay to start a DVD in the optical drive. ■ In standby: Resumes from standby into Windows. ■ In hibernation: Restores from hibernation into Windows.

Table 1-7

QuickPlay and Quick Launch Button Components (*Continued*)

Item	Component	Function
2	Media Button	<p>Default button functions without QuickPlay software:</p> <p>When the computer is</p> <ul style="list-style-type: none"> ■ On: Opens the music application or the Media menu, allowing you to select a multimedia application. ■ Off: No function. ■ In standby: Resumes from standby into Windows. ■ In hibernation: Restores from hibernation into Windows. <p>Button functions with QuickPlay software:</p> <p>When the computer is</p> <ul style="list-style-type: none"> ■ On: Opens the music application or the Media menu, allowing you to select a multimedia application. ■ Off: Opens the music application or the Media menu, allowing you to select a multimedia application. ■ In standby: Resumes from standby into Windows. ■ In hibernation: Restores from hibernation into Windows.
3	Quick Launch calculator button	<p>Opens the Microsoft Windows calculator. This button can also be reassigned to an Internet or network destination or to any software application or data file.</p> <p> When you press the Quick Launch calculator button, num lock is enabled.</p>

The computer TouchPad components are shown below and described in Table 1-8.



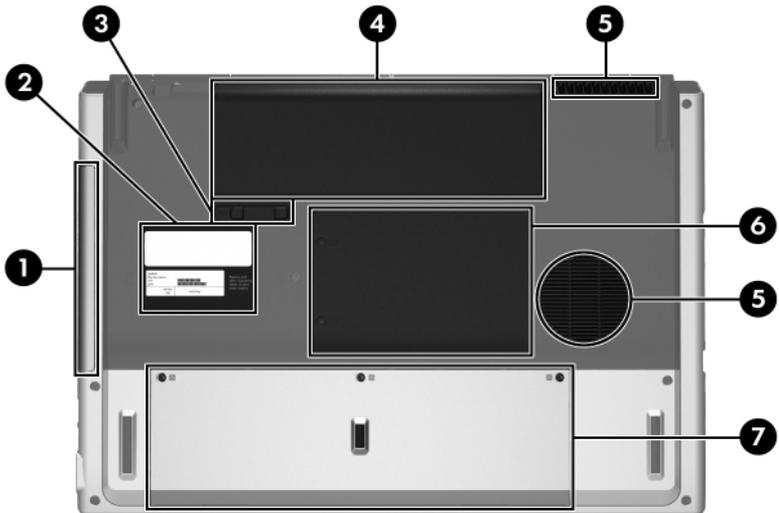
TouchPad Components

Table 1-8

TouchPad Components

Item	Component	Function
1	Left and right TouchPad buttons	Function like the left and right buttons on an external mouse.
2	TouchPad	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling, selecting, and double-clicking.
3	TouchPad vertical scroll zone	Scrolls up or down.

The external components on the bottom of the computer are shown below and described in Table 1-9.



Bottom Components

Table 1-9
Bottom Components

Item	Component	Function
1	Optical drive	Supports an optical disc, such as a CD or DVD.
2	Labels area	Contains the serial number and other information labels.
3	Battery release latch	Releases a battery from the battery bay.
4	Battery bay	Holds a battery.

Table 1-9
Bottom Components (Continued)

Item	Component	Function
5	Vents (2)	<p>Provide airflow to cool internal components.</p> <p> 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.</p>
6	Memory/Mini PCI module compartment cover	<ul style="list-style-type: none"> <li data-bbox="525 613 948 748">■ Contains 2 memory module slots that support replaceable memory modules. The number of preinstalled memory modules varies by computer model. <li data-bbox="525 760 889 813">■ Holds an optional wireless LAN device (select models only). <p> To prevent an unresponsive system and the display of a warning message, install only a Mini PCI device authorized for use in your computer by the governmental agency that regulates wireless devices in your country. If you install an unauthorized device and then receive a warning message, remove the device to restore computer functionality. Then contact Customer Care.</p>
7	Hard drive bay	Holds the internal hard drive.

1.5 Design Overview

This section presents a design overview of key parts and features of the computer. Refer to [Chapter 3, “Illustrated Parts Catalog,”](#) to identify replacement parts, and [Chapter 5, “Removal and Replacement Procedures,”](#) for disassembly steps.

The system board provides the following device connections:

- AMD Turion 64 processors
- AMD Mobile Sempron processors
- Audio
- Digital media card
- Display
- ExpressCard
- Hard drive
- Keyboard
- Memory module
- Mini Card devices
- Mini PCI communications devices
- PC Card
- TouchPad



CAUTION: To properly ventilate the computer, allow at least a 7.6-cm (3-inch) clearance on the left and right sides of the computer.

The computer uses an electric fan for ventilation. The fan is controlled by a temperature sensor and is designed to turn on automatically when high temperature conditions exist. These conditions are affected by high external temperatures, system power consumption, power management/battery conservation configurations, battery fast charging, and software. Exhaust air is displaced through the ventilation grill located on the left side of the computer.

Sample of manual. Download All 264 pages at:

<https://www.arepairmanual.com/downloads/2006-hp-pavilion-dv8000dv8200-n>