

Product: 2008-2009 HP Pavilion dv6 Entertainment PC Service Repair Workshop Manual
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HP Pavilion dv6 Entertainment PC Maintenance and Service Guide



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Safety warning notice

-
- ⚠ **WARNING!** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).
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1 Product description

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
Product Name	HP Pavilion dv6 Entertainment PC	√	√
Processors	Intel® Core™2 Duo T9800 2.93-GHz with 6-MB L2 cache and 1066-MHz front side bus (FSB)	√	√
	Intel Core2 Duo T9600 2.80-GHz with 6-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core2 Duo T9550 2.66-GHz with 6-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core2 Duo T9400 2.53-GHz with 6-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core2 Duo T6600 2.20-GHz with 2-MB L2 cache and 800-MHz FSB	√	√
	Intel Core2 Duo T6400 2.00-GHz with 2-MB L2 cache and 800-MHz FSB	√	√
	Intel Core2 Duo T5800 2.00-GHz with 2-MB L2 cache and 800-MHz FSB	√	√
	Intel Pentium® Dual-Core T4200 2.0-GHz with 1-MB L2 cache and 800-MHz FSB	√	√
	Intel Pentium Dual-Core T3400 2.16-GHz with 1-MB L2 cache and 667-MHz FSB	√	√
	Intel Core2 Duo P8700 2.53-GHz with 3-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core Duo P8600 2.40-GHz with 3-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core Duo P8400 2.26-GHz with 3-MB L2 cache and 1066-MHz FSB	√	√
	Intel Core Duo P7450 2.13-GHz with 3-MB L2 cache and 1066-MHz FSB	√	√
	Intel Celeron® T1600 1.66-GHz with 1-MB L2 cache and 667-MHz FSB		√
Chipset	Northbridge: Intel PM45	√	
	Northbridge: Intel GM45		√

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
	Southbridge: Intel ICH9M	√	√
Graphics	<p>nVIDIA GeForce 9200M GS with 512 MB of dedicated video memory (64 MB × 16 DDR2 × 4 PCs)</p> <ul style="list-style-type: none"> Up to 767 MB video memory on computer models equipped with 1 GB of main system memory Up to 1279 MB video memory on computer models equipped with 2 GB of main system memory Up to 1791 MB video memory on computer models equipped with 3 GB of main system memory Up to 1791 MB video memory on computer models equipped with 4 GB of main system memory (32-bit OS) Up to 2303 MB video memory on computer models equipped with 4 GB of main system memory (64-bit OS) 	√	
	<p>ATI Discrete PCI Express x 16 Graphics</p> <ul style="list-style-type: none"> ATI Mobility Radeon HD 4650 (M96) with 1 GB dedicated video memory (64MBx16 DDR3 x 8 PCs) ATI Mobility Radeon HD 4530 (M92) with 512 MB dedicated video memory (64MBx16 DDR3 x 4 PCs) 	√	
	Intel Extreme Graphics - Intel GMA 4700MHD		√

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
	Unified memory architecture (UMA) with shared video memory: <ul style="list-style-type: none"> Up to 270 MB of graphics subsystem memory on computer models equipped with 1024 MB of main system memory Up to 782 MB of graphics subsystem memory on computer models equipped with 2048 MB of main system memory Up to 1294 MB of graphics subsystem memory on computer models equipped with 3072 MB of main system memory Up to 1294 MB of graphics subsystem memory on computer models equipped with 4096 MB of main system memory (32-bit OS) Up to 1759 MB of graphics subsystem memory on computer models equipped with 4096 MB of main system memory (64-bit OS) Memory size is dynamic change 		√
Panels	• 15.6-inch, WXGA (1366 × 768) BrightView	√	√
	• 16.0-inch, WXGA (1366 × 768) BrightView	√	√
	• 15.6-inch WXGA (1366 × 768) AntiGlare	√	√
	• 16.0-inch, WXGA (1366 × 768) AntiGlare	√	√
	• AntiGlare glass panel cover support	√	√
	• Support for lighted logo on display enclosure	√	√
	• Typical brightness 200 nits	√	√
Memory	2 SODIMM slots	√	√
	Customer-accessible/upgradable	√	√
	PC2-6400, 800-MHz, DDR2	√	√
	Dual-channel support	√	√

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
	Supports up to 8 GB system memory	√	√
	<ul style="list-style-type: none"> 1024-MB total system memory (1024 MB × 1, dual-channel) 2048-MB total system memory (1024 MB × 2, dual-channel) 2048-MB total system memory (2048 MB × 1, dual-channel) 3072-MB total system memory (2048 MB + 1024 MB) 4096-MB total system memory (2048 MB × 2, dual-channel) 6144-MB total system memory (2048 MB + 4096 MB) 8192-MB total system memory (4096 MB × 2, dual-channel) 		
Hard drives	Supports all Serial ATA (SATA) 9.5 mm, 6.35-cm (2.5-inch) hard drives	√	√
	Supports one hard drive	√	√
	Support for HP ProtectSmart Hard Drive Protection	√	√
	Single hard drive configurations:	√	√
	<ul style="list-style-type: none"> 160 GB (5400 rpm) 250 GB (7200 rpm) (select models only) 250 GB (5400 rpm) 320 GB (7200 rpm) (select models only) 320 GB (5400 rpm) 400 GB (5400 rpm) 500 GB (5400 rpm) (select models only) 		
Optical drives	12.7-mm tray load	√	√
	Serial ATA	√	√
	Fixed (removal of 1 screw required)	√	√
	Supports the following optical drives:	√	√
	<ul style="list-style-type: none"> DVD±RW and D-RW SuperMulti Double-Layer Combo Drive with Blu-ray ROM DVD±R/RW SuperMulti Double-Layer Drive Blu-ray ROM with LightScribe DVD±R/RW SuperMulti Double-Layer Drive 		

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
Webcam	Low-light VGA camera	√	√
	Fixed (no tilt)	√	√
	Activity LED	√	√
	640 × 480 by 24 frames per second	√	√
Microphone	2 omnidirectional microphones, dual-array with appropriate software (supports beam forming, echo cancellation, and noise suppression)	√	√
Audio	HD Audio (IDT)	√	√
	Supports Microsoft® Premium Requirements	√	√
	Pavilion-branded Altec Lansing speakers	√	√
Modem	56K V.92 data/fax modem (select models only)	√	√
	Supports all worldwide certification requirements	√	√
Ethernet	Integrated Realtek 10/100/1000 network interface card (NIC)	√	
	Integrated Realtek 10/100 NIC		√
Wireless	Integrated wireless local area network (WLAN) options by way of wireless module:		
	Broadcom BCM4312 802.11b/g	√	√
	Broadcom BCM4312 802.11b/g + Bluetooth® with two antennas	√	√
	Broadcom 4322 802.11a/b/g/n WLAN	√	√
	Broadcom 4322 802.11a/b/g/n WLAN + Bluetooth	√	√
	Intel Wi-Fi Link 5100 802.11a/b/g/n WLAN module with two antennas	√	√
	Intel Wi-Fi Link 5100 802.11a/b/g/n WLAN module + Bluetooth with two antennas	√	√
	Intel Wi-Fi Link 5100 802.11a/b/g WLAN module with two antennas	√	√
	Intel Wi-Fi Link 5100 802.11a/b/g WLAN module + Bluetooth with two antennas	√	√
TV tuner	Integrated NTSC/ATSC/ANG hybrid TV tuner module (select models only)	√	√
	Integrated worldwide analog DVB-T/ANG TV tuner module (select models only)	√	√
	Integrated DVB-T TV tuner module (select models only)	√	
	Support for TV tuner antennas for both DVB-T and NTSC/ATSC (select models only)	√	√

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
External media card	One ExpressCard 54 slot	√	√
	Digital Media Slot, supports Secure Digital (SD) Memory Card, Multi Media Card (MMC), Memory Stick (MS, Memory Stick Pro (MSP), xD Picture Card (XD)	√	√
Internal card expansion	Two Mini Card slots	√	√
	<ul style="list-style-type: none"> • One slot for WLAN • One slot for TV tuner or other technologies 		
Ports	VGA, 15-pin supporting 1920 × 1200 resolution at 75Hz	√	
	VGA, 15-pin supporting 1600 × 1200 resolution at 75Hz		√
	High-Definition Multimedia Interface (HDMI) v1.3b supporting 1080p with HDCP key	√	√
	eSATA port combo with fourth USB port	√	√
	Four USB 2.0 ports	√	√
	IEEE 1394a	√	
	RJ-11 modem (select models only)	√	√
	RJ-45 Ethernet	√	√
	Consumer infrared	√	√
	MCX connector for TV antennas (select models only)	√	√
	Two stereo headphone jacks (audio-out)	√	√
	Microphone input (audio-in)	√	√
	2-pin AC power for 90-W AC adapter	√	√
	Docking	Expansion port 3 supports the HP xb3000 Notebook Expansion Base and HP Notebook QuickDock	√
Keyboard/pointing devices	16-inch full-size keyboard with numeric keypad	√	√
	Standard IMR keyboard	√	√
	UV painted keyboard (select models only)	√	√
	TouchPad supports 2-way scrolling	√	√
	Taps enabled as default	√	√
Power requirements	6-cell, 47-Wh, 2.55-Ah Li-ion battery	√	
	6-cell, 55-Wh, 2.55-Ah Li-ion battery (Germany only)		√

Category	Description	Computer models equipped with graphics subsystems with discrete memory	Computer models equipped with graphics subsystems with UMA memory
	6-cell, 55-Wh, 2.55-Ah Li-ion battery	√	
	12-cell, 95-Wh, 8.8-Ah Li-ion battery	√	
	90-W AC adapter with localized cable plug support (2-wire plug with ground pin, supports 2-pin DC connector)	√	
	65-W AC adapter with localized cable plug support (2-wire plug with ground pin, supports 2-pin DC connector)		√
Security	Security cable slot	√	√
	Fingerprint reader (select models only)	√	√
Operating system	Preinstalled:		
	Windows Vista® Business (32 bit)	√	√
	Windows Vista Home Basic (32 bit)	√	√
	Windows Vista Premium (32 bit and 64 bit)	√	√
	Windows Vista Ultimate (64 bit)	√	√
Serviceability	AC adapter	√	√
	Battery (system)	√	√
	Hard drive	√	√
	Memory module	√	√
	Optical drive	√	√
	Mini Card components	√	√
	WLAN module	√	√

2 External component identification

Top components

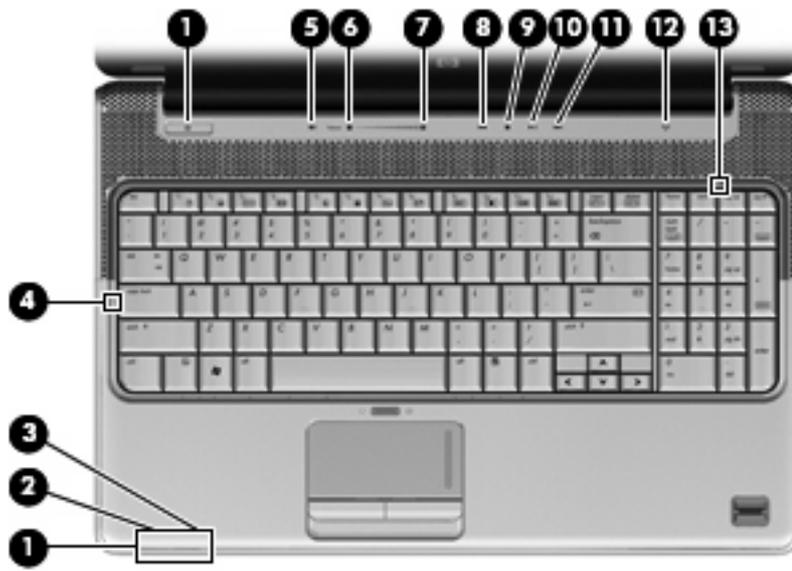
TouchPad



Item	Component	Description
(1)	TouchPad light	<ul style="list-style-type: none">• White: TouchPad is enabled.• Amber: TouchPad is disabled.
(2)	TouchPad*	Moves the pointer and selects or activates items on the screen.
(3)	Left TouchPad button*	Functions like the left button on an external mouse.
(4)	TouchPad on/off button	Enables/disables the TouchPad.
(5)	TouchPad vertical scroll zone	Scrolls up or down.
(6)	Right TouchPad button*	Functions like the right button on an external mouse.

*This table describes factory settings. To view and change TouchPad preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

Lights



Item	Component	Description
(1)	Power lights* (2)	<ul style="list-style-type: none"> On: The computer is on. Blinking: The computer is in the Sleep state. Off: The computer is off or in Hibernation.
(2)	Battery light	<ul style="list-style-type: none"> On: A battery is charging. Blinking: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly. 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 level.
(3)	Drive light	<ul style="list-style-type: none"> Blinking: The hard drive or optical drive is being accessed. Amber: HP ProtectSmart Hard Drive Protection has temporarily parked the hard drive.
(4)	Caps lock light	On: Caps lock is on.
(5)	Volume mute light	<ul style="list-style-type: none"> White: Computer sound is turned on. Amber: Computer sound is turned off.
(6)	Volume down light	On: The volume scroll zone is being used to decrease speaker volume.
(7)	Volume up light	On: The volume scroll zone is being used to increase speaker volume.
(8)	Previous/rewind light	On: The previous/rewind button has been pressed.
(9)	Play/pause light	On: The play/pause button has been pressed.
(10)	Next/fast forward light	On: The next/fast forward button has been pressed.

Item	Component	Description
(11)	Stop light	On: The stop button has been pressed.
(12)	Wireless light	<ul style="list-style-type: none"> Blue: An integrated wireless device, such as a wireless local area network (WLAN) device and/or a Bluetooth device, is turned on. Amber: All wireless devices are turned off.
(13)	Num lock light	On: The integrated numeric keypad is enabled, or num lock is enabled on a connected optional keypad.

*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The power light on the front of the computer is visible whether the computer is open or closed.

Buttons, speakers and fingerprint reader

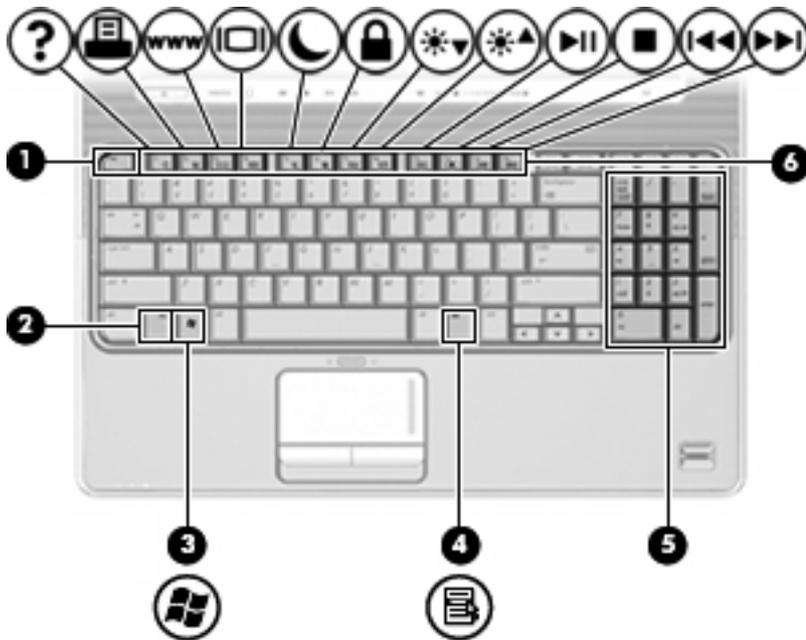


Item	Component	Description
(1)	Speakers (2)	Produce sound.
(2)	Power button*	<ul style="list-style-type: none"> When the computer is off, press the button to turn on the computer. When the computer is on, press the button briefly to initiate Sleep. When the computer is in the Sleep state, press the button briefly to exit Sleep. When the computer is in Hibernation, press the button briefly to exit Hibernation. <p>If the computer has stopped responding and Windows® shutdown procedures are ineffective, press and hold the power button for at least 5 seconds to turn off the computer.</p> <p>To learn more about your power settings, select Start > Control Panel > System and Maintenance > Power Options.</p>
(3)	Volume mute button	Mutes and restores speaker sound.
(4)	Volume scroll zone	Adjusts speaker volume. Slide your finger to the left to decrease volume and to the right to increase volume. You can also tap the minus sign (-) on the scroll zone to decrease volume, or tap the plus sign (+) on the scroll zone to increase volume.
(5)	Previous/rewind button	<ul style="list-style-type: none"> Plays the previous track or chapter when the button is pressed once. Rewinds media when the button is pressed simultaneously with the fn key.
(6)	Play/pause button	Plays or pauses media.

Item	Component	Description
(7)	Next/fast forward button	<ul style="list-style-type: none"> Plays the next track or chapter when the button is pressed once. Fast forwards media when pressed simultaneously with the fn key.
(8)	Stop button	Stops playback.
(9)	Wireless button	<p>Turns the wireless feature on or off, but does not create a wireless connection.</p> <p>NOTE: A wireless network must be set up in order to establish a wireless connection.</p>
(10)	Fingerprint reader (select models only)	Allows a fingerprint logon to Windows, instead of a password logon.

*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Keys



Item	Component	Description
(1)	<code>esc</code> key	Displays system information about your computer when pressed in combination with the <code>fn</code> key.
(2)	<code>fn</code> key	Executes frequently used system functions when pressed in combination with a function key or the <code>esc</code> key.
(3)	Windows logo key	Displays the Windows Start menu.
(4)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5)	Integrated numeric keypad keys	Can be used like the keys on an external numeric keypad.
(6)	Function keys	Execute frequently used system functions when pressed in combination with the <code>fn</code> key.

Front components



Item	Component	Description
(1)	Power light	<ul style="list-style-type: none">• On: The computer is on.• Blinking: The computer is in the Sleep state.• Off: The computer is off or in Hibernation.
(2)	Battery light	<ul style="list-style-type: none">• On: A battery is charging.• Blinking: A battery that is the only available power source has reached a low battery level. When the battery reaches a critical battery level, the battery light begins blinking rapidly.• 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 level.
(3)	Drive light	<ul style="list-style-type: none">• Blinking: The hard drive or optical drive is being accessed.• Amber: HP ProtectSmart Hard Drive Protection has temporarily parked the hard drive.
(4)	Consumer infrared lens	Receives a signal from the remote control.
(5)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(6)	Audio-out (headphone) jacks (2)	Produce sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.

NOTE: This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Rear component



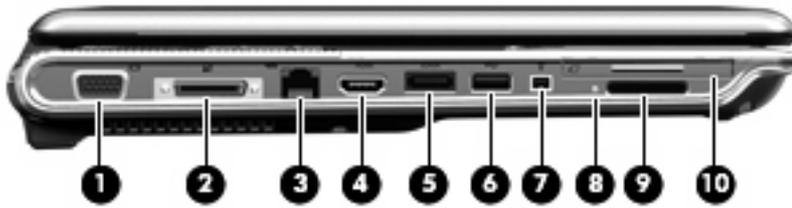
Component	Description
Vent	Enables airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

Right-side components



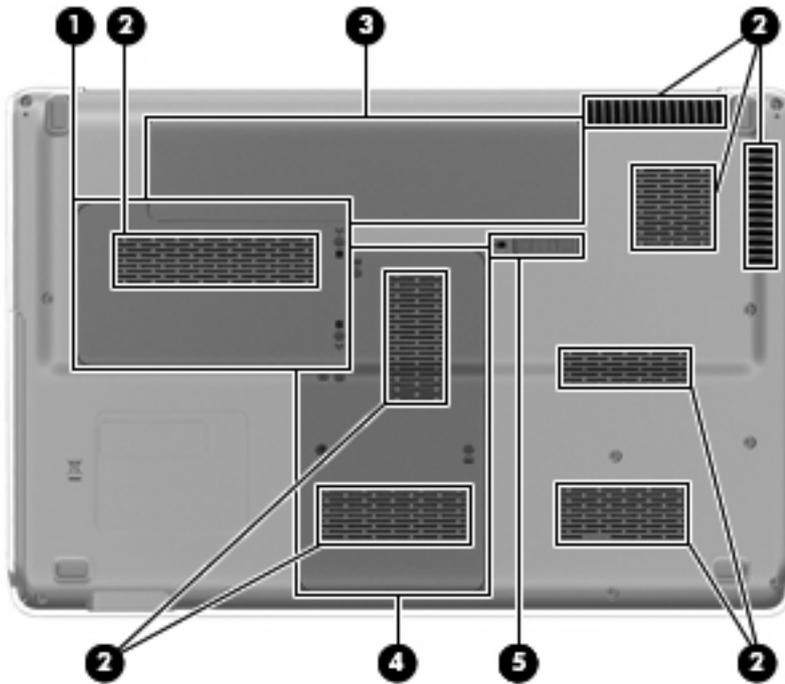
Item	Component	Description
(1)	Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(2)	Optical drive light	Blinking: The optical drive is being accessed.
(3)	USB ports (2)	Connect optional USB devices.
(4)	TV antenna/cable jack (select models only)	Connects a TV antenna, a digital cable device, or a satellite device that receives standard or high-definition TV broadcasts.
(5)	RJ-11 (modem) jack (select models only)	Connects a modem cable.
(6)	Security cable slot	Attaches an optional security cable to the computer. NOTE: The security cable is designed to act as a deterrent, but it may not prevent the computer from being mishandled or stolen.
(7)	Activity light for the power connector	Indicates that the power is on.
(8)	Power connector	Connects an AC adapter.

Left-side components



Item	Component	Description
(1)	External monitor port	Connects an external VGA monitor or projector.
(2)	Expansion port 3	Connects the computer to an optional docking device or an optional expansion product. NOTE: The computer has only one expansion port. The term <i>expansion port 3</i> describes the type of expansion port.
(3)	RJ-45 (network) jack	Connects a network cable.
(4)	HDMI port	Connects an optional video or audio device, such as a high-definition television, or any compatible digital or audio component.
(5)	eSATA/USB port (select models only)	Connects an optional high-performance eSATA component, such as an eSATA external hard drive, or connects an optional USB device. NOTE: Depending on your computer model, the computer may include a USB port only.
(6)	USB port	Connects an optional USB device.
(7)	1394 port (select models only)	Connects an optional IEEE 1394 or 1394a device, such as a camcorder.
(8)	Activity light for the Digital Media Slot	Indicates that the component installed in the Digital Media Slot is operating.
(9)	Digital Media Slot	Supports the following optional digital card formats: <ul style="list-style-type: none"> • Memory Stick (MS) • Memory Stick Pro (MSP) • MultiMediaCard (MMC) • Secure Digital (SD) Memory Card • Secure Digital High Capacity (SDHC) Memory Card • xD-Picture Card (XD) Type H • xD-Picture Card (XD) Type M
(10)	ExpressCard slot	Supports optional ExpressCard/54 cards.

Bottom components



Item	Component	Description
(1)	Hard drive bay	Holds the hard drive.
(2)	Vents (8)	Enable airflow to cool internal components. NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.
(3)	Battery bay	Holds the battery.
(4)	Memory module compartment	Contains the memory module slots. Also holds the WLAN module, TV tuner card (select models only), and the Intel Turbo Memory card (select models only). CAUTION: To prevent an unresponsive system, replace the wireless module only with a wireless module authorized for use in the computer by the governmental agency that regulates wireless devices in your country or region. If you replace the module and then receive a warning message, remove the module to restore computer functionality, and then contact technical support through Help and Support.
(5)	Battery release latch	Releases the battery from the battery bay.

Display components



Item	Component	Description
(1)	Internal display switch	Turns off the display and initiates Sleep if the display is closed while the power is on.
(2)	Internal microphones (2)	Record sound.
(3)	Integrated webcam light	On: The integrated webcam is in use.
(4)	Integrated webcam	Records audio and video and captures still photographs.

Wireless antennas (select models only)

On select computer models, at least 2 antennas send and receive signals from one or more wireless devices.



 **NOTE:** The antennas are not visible from the outside of the computer. For optimal transmission, keep the areas immediately around the antennas free from obstructions.

To see wireless regulatory notices, refer to the section of the *Regulatory, Safety and Environmental Notices* that applies to your country or region. These notices are located in Help and Support.

3 Illustrated parts catalog

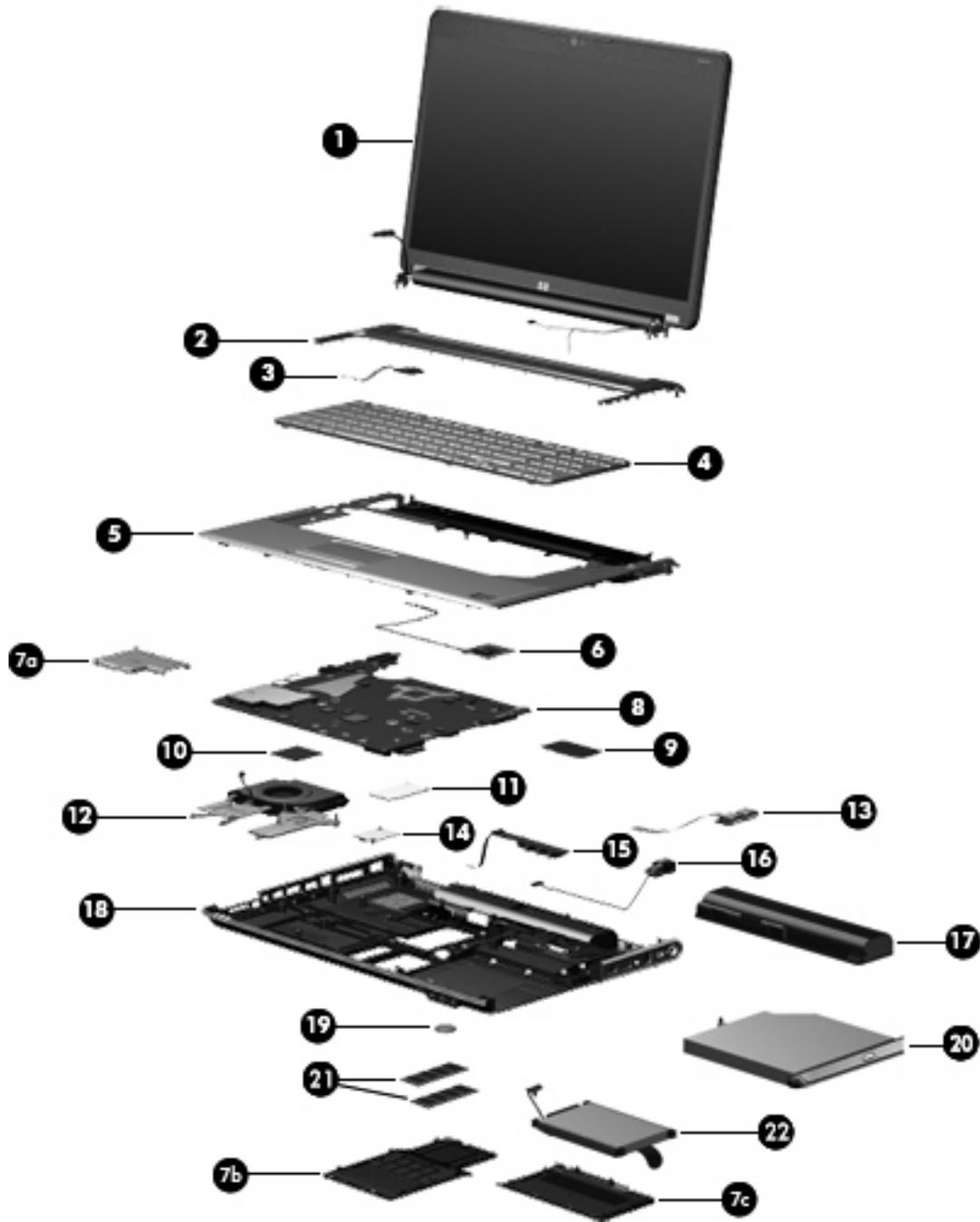
Service tag

When ordering parts or requesting information, provide the computer serial number and model description provided on the service tag.

- (1) Product name: This is the product name affixed to the front of the computer.
- (2) Serial number (s/n): This is an alphanumeric identifier that is unique to each product.
- (3) Part number/Product number (p/n): This number provides specific information about the product's hardware components. The part number helps a service technician to determine what components and parts are needed.
- (4) Model description: This is the alphanumeric identifier used to locate documents, drivers, and support for the computer.
- (5) Warranty period: This number describes the duration of the warranty period for the computer.



Computer major components



Item	Description	Spare part number
(1)	Display assembly (includes wireless antenna transceivers and cables)	
	15.6-inch WXGA BrightView display assembly with webcam and 2 microphones, Onyx	511867-001
	15.6-inch WXGA BrightView display assembly with webcam and 2 microphones, Moonlight White	517862-001

Item	Description	Spare part number
	15.6-inch WXGA BrightView display assembly with webcam and 2 microphones, Espresso Black	518776-001
	15.6-inch WXGA AntiGlare display assembly with webcam and 2 microphones, Moonlight White	518775-001
	15.6-inch WXGA AntiGlare display assembly with webcam and 2 microphones, Espresso Black	518777-001
	16.0-inch WXGA BrightView display assembly with webcam and 2 microphones, Onyx	511865-001
	16.0-inch WXGA BrightView display assembly with webcam and 2 microphones, Moonlight White	512357-001
	16.0-inch WXGA BrightView display assembly with webcam and 2 microphones, Espresso Black	518771-001
	16.0-inch WXGA AntiGlare display assembly with webcam and 2 microphones, Onyx	511866-001
	16.0-inch WXGA AntiGlare display assembly with webcam and 2 microphones, Moonlight White	512358-001
	16.0-inch WXGA AntiGlare display assembly with webcam and 2 microphones, Espresso Black	518772-001
	NOTE: See Display assembly components on page 31 for more information on display assembly spare part numbers.	
(2)	Switch cover (includes LED board and cable)	
	Onyx	512829-001
	Moonlight White	518110-001
	Espresso Black	518790-001
(3)	Power button board for computers with discrete graphics subsystem memory (includes cable)	512835-001
	Power button board for computers with UMA graphics subsystem memory (includes cable)	512834-001
(4)	Keyboard, Onyx (includes keyboard cable)	
	Belgium	511885-A41
	The Czech Republic	511885-221
	Denmark, Norway, and Sweden	514115-DH1
	France	511885-051
	French Canada	514115-121
	Germany	511885-041
	Greece	511885-DJ1
	Hungary	511885-211
	International	511885-B31
	Israel	511885-BB1
	Italy	511885-061
	Japan	514115-291

Sample of manual. Download All 170 pages at:

<https://www.arepairmanual.com/downloads/2008-2009-hp-pavilion-dv6-entertainment-pc-service-repair-workshop-manual/>