

Product: 2008 HP Pavilion dv5 Entertainment PC Service Repair Workshop Manual
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HP Pavilion dv5 Entertainment PC Maintenance and Service Guide



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Safety warning notice

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- ⚠ **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 AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
Product Name	HP Pavilion dv5 Entertainment PC	√	√	√
Processors	AMD processors:			
	AMD Turion™ Ultra Dual-Core 35W ZM-86 2.40-GHz with 2-MB L2 cache	√	√	
	AMD Turion Ultra Dual-Core 35W ZM-82 2.20-GHz, with 2-MB L2 cache	√	√	
	AMD Turion Ultra Dual-Core 35W ZM-80 2.10-GHz, with 2-MB L2 cache	√	√	
	AMD Turion Dual-Core 35W RM-70 2.00-GHz with 1-MB L2 cache	√	√	
	AMD Athlon™ X2 Dual-Core 35W QL-60 1.90-GHz with 1-MB L2 cache	√	√	
	Intel® processors:			
	Intel Core™2 Duo T9600 2.80-GHz with 6-MB L2 cache and 1066-MHz front side bus (FSB)			√
	Intel Core2 Duo T9400 2.53-GHz with 6-MB L2 cache and 1066-MHz FSB			√
	Intel Core Duo T8600 2.40-GHz with 3-MB L2 cache and 1066-MHz FSB			√
	Intel Core Duo T8400 2.26-GHz with 3-MB L2 cache and 1066-MHz FSB			√
Chipset	Northbridge: AMD M770 chipset, ATI Radeon HD 3450 graphics	√		
	Northbridge: AMD M780G chipset, ATI Radeon HD 3200 graphics		√	
	Southbridge: AMD SB700	√	√	
	Northbridge: Intel PM45			√
	Southbridge: Intel ICH9M			√

Category	Description	Computer models equipped with AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
Graphics	ATi Mobility Radeon HD 3450 with 256 MB of discrete graphics subsystem memory (32 MB × 16 DDR2 × 4 PCs)	√		
	Unified memory architecture (UMA) with shared video memory: <ul style="list-style-type: none"> Up to 358 MB of graphics subsystem memory on computer models equipped with 2048 MB or more of main system memory Up to 251 MB of graphics subsystem memory on computer models equipped with 1024 MB Memory size is dynamic change 		√	
	Discrete graphics subsystem memory <ul style="list-style-type: none"> GeForce 9650M GT, Nvidia NB9P-GS with 512 MB (32 MB × 16 DDR2 × 8 PCs) GeForce 9300M GS, Nvidia NB9M-GEB with 256 MB (32 MB × 16 DDR2 × 4 PCs) 			√
Panels	• 15.4-inch, WSXGA+ (1680 × 1050) AntiGlare	√	√	√
	• 15.4-inch, WSXGA+ (1680 × 1050) BrightView	√	√	√
	• 15.4-inch, WXGA+ (1440 × 900) AntiGlare	√	√	√
	• 15.4-inch, WXGA+ (1440 × 900) BrightView	√	√	√
	• 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 AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
	Supports up to 4096 MB system memory <ul style="list-style-type: none"> 4096-MB total system memory (2048 MB × 2, dual-channel) 3072-MB total system memory (2048 MB × 1 + 1024 × 1) 2048-MB total system memory (1024 MB × 2, dual-channel) 2048-MB total system memory (2048 MB × 1) 1024-MB total system memory (512 MB × 2, dual-channel) 1024-MB total system memory (1024 MB × 1) 	√	√	√
Hard drives	Supports all Serial ATA (SATA) 9.5-mm, 2.5-inch hard drives	√	√	√
	Supports up to 2 hard drives	√	√	√
	Support for Accelerometer hard drive protection	√	√	√
	Support for solid-state drive (SSD) on dual hard drive configurations, with SSD set as the primary drive	√	√	√
	Dual hard drive configurations: <ul style="list-style-type: none"> 640-GB (320-GB, 5400-rpm × 2) 500-GB (250-GB, 5400-rpm × 2) 320-GB (160-GB, 7200-rpm × 2) 320-GB (160-GB, 5400-rpm × 2) 64-GB SSD + 320-GB, 5400-rpm 	√	√	√
	Single hard drive configurations: <ul style="list-style-type: none"> 320-GB, 5400-rpm 250-GB, 5400-rpm 160-GB, 7200-rpm 160-GB, 5400-rpm 120-GB, 5400-rpm 	√	√	√
Optical drives	12.7-mm tray load	√	√	√
	Parallel ATA	√	√	√

Category	Description	Computer models equipped with AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
	Fixed (1 screw for removal)	√	√	√
	Support for the following optical drives:	√	√	√
	<ul style="list-style-type: none"> DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive Blu-ray Disc ROM Drive with SuperMulti DVD±R/RW Double-Layer 			
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)	√	√	√
	Integrated subwoofer	√	√	√
	Supports Microsoft Premium Requirements	√	√	√
	Pavilion-branded Altec Lansing speakers	√	√	√
Modem	56K V.92 data/fax modem	√	√	√
	Supports all world-wide 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:			
	Atheros AR9280 802.11a/b/g/n	√	√	
	Broadcom 4321 802.11a/b/g/n	√	√	
	Atheros AR2425 802.11b/g	√	√	
	Intel Wi-Fi Link 5100 802.11a/b/g/n WLAN module			√

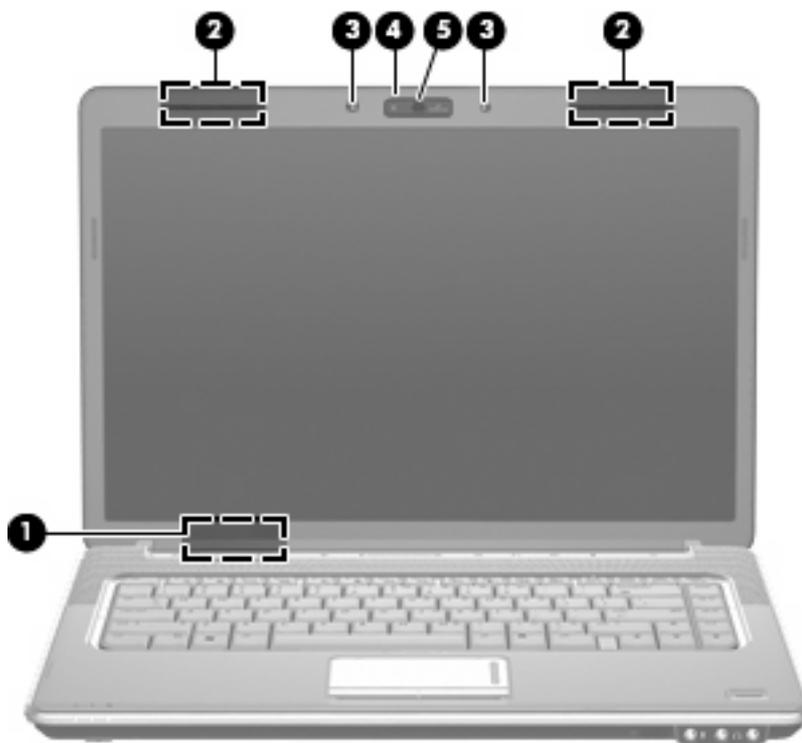
Category	Description	Computer models equipped with AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
	Intel Wi-Fi Link 5100 802.11a/b/g WLAN module			√
	Broadcom 4322 802.11a/b/g/n WLAN module			√
	Broadcom BCM4312 802.11b/g WLAN module			√
Wireless	Integrated ATSC/NTSC/QAM hybrid TV tuner module	√	√	√
	Integrated world-wide analog DVB-T TV tuner module	√	√	√
	Support for TV tuner antennae for both DVB-T and ATSC/NTSC	√	√	√
External media card	One ExpressCard 54 slot	√	√	
	Digital Media Slot, supports SD, MMC, SD I/O, MS, MSP, xD	√	√	√
Ports	Audio-in (mono microphone)	√	√	√
	Audio-out (stereo headphone)	√	√	√
	Audio-out (stereo headphone with S/PDIF)	√	√	√
	Consumer infrared	√	√	√
	eSATA	√	√	√
	High-Definition Multimedia Interface (HDMI) v1.3 supporting 1080p with HDCP key	√	√	√
	IEEE 1394a	√		√
	RJ-11 (modem; select models only)	√	√	√
	RJ-45 (Ethernet, includes link and activity lights)	√	√	√
	TV tuner antenna (select models only)	√		√
	USB (4 on computer models not equipped with an eSATA port; 3 on computer models equipped with an eSATA port)	√	√	√
	VGA (Dsub 15-pin)	√	√	√
	2-pin AC power for 90-W AC adapter	√	√	√
Docking	Expansion port 3 supports the HP xb3000 Notebook Expansion Base and HP Notebook QuickDock	√	√	√

Category	Description	Computer models equipped with AMD processors and graphics subsystems with discrete memory	Computer models equipped with AMD processors and graphics subsystems with UMA memory	Computer models equipped with Intel processors and graphics subsystems with discrete memory
Keyboard/ pointing devices	17-inch full-size keyboard with numeric keypad	√	√	√
	Touchpad supports 2-way scrolling	√	√	√
	Taps enabled as default	√	√	√
Power requirements	8-cell 2.55-Ah Li-ion battery	√		√
	6-cell 2.20-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:			
	FreeDOS	√	√	√
	Linux Red Flag	√	√	√
	Windows Vista® Business (32 bit)	√	√	√
	Windows Vista Home Basic (32 bit) vvv			√
	Windows Vista Premium (32 bit)	√	√	√
	Windows Vista Ultimate (64 bit)	√	√	√
Serviceability	AC adapter	√	√	√
	Battery (system)	√	√	√
	Hard drives (2)	√	√	√
	Memory module	√	√	√
	Optical drive	√	√	√
	TV tuner module	√	√	√
	WLAN module	√	√	√

2 External component identification

Top components

Display and top 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)	Wireless antennae (select models only)	Send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer. NOTE: For optimal transmission, keep the areas immediately around the antennae free from obstructions. NOTE: To see wireless regulatory notices, refer to the section of the <i>Regulatory, Safety and Environmental Notices</i> that applies to your country or region. These notices are located in Help and Support.

Item	Component	Description
(3)	Internal microphones (2)	Record sound.
(4)	Integrated webcam light	On: The integrated webcam is in use.
(5)	Integrated webcam	Records video and captures still photographs.

Buttons, fingerprint reader, and speakers



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)	Media button	<ul style="list-style-type: none"> Launches the QuickPlay program (for models with QuickPlay preinstalled). <p>NOTE: If the computer has been set up to require a logon password, you may be asked to log on to Windows. QuickPlay launches after you log on. Refer to the QuickPlay software Help for more information.</p>
(4)	Volume mute button	Mutes and restores speaker sound.

Item	Component	Description
(5)	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.
(6)	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.
(7)	Play/pause button	Plays or pauses the disc.
(8)	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.
(9)	Stop button	Stops playback.
(10)	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>
(11)	Fingerprint reader	Allows a fingerprint logon to Windows, instead of a password logon.

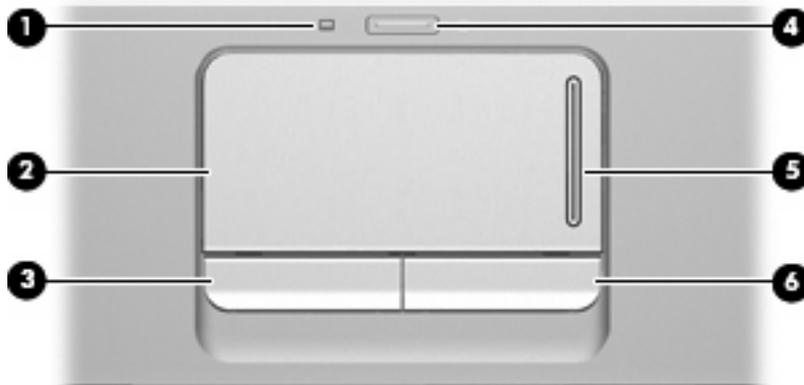
*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Keys



Item	Component	Function
(1)	esc key	Displays system information about your computer when pressed in combination with the fn key.
(2)	fn key	Executes frequently used system functions when pressed in combination with a function key or the esc key.
(3)	Windows logo key	Displays the Windows® Start menu.
(4)	Windows applications key	Displays a shortcut menu for items beneath the pointer.
(5)	Embedded 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 fn key.

TouchPad



Item	Component	Function
(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)	TouchPad left button*	Functions like the left button on an external mouse.
(4)	TouchPad on/off button	Enables/disables the TouchPad.
(5)	TouchPad scroll zone	Scrolls up or down.
(6)	TouchPad right button*	Functions like the right button on an external mouse.

*This table describes factory settings. View or change pointing device preferences by selecting **Start > Control Panel > Hardware and Sound > Mouse**.

Front components



Item	Component	Function
(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	Blinking: The hard drive or optical drive is being accessed.
(4)	Consumer infrared lens	Receives a signal from the HP 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 components



Component	Function
Vents (2)	Enables airflow to cool internal components.

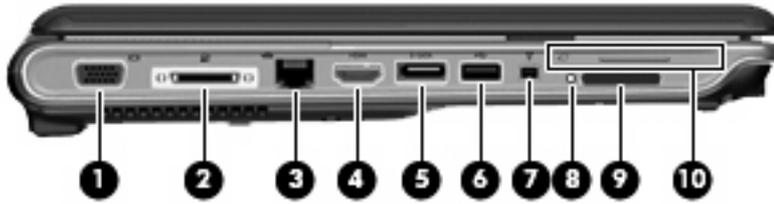
NOTE: The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.

Right-side components



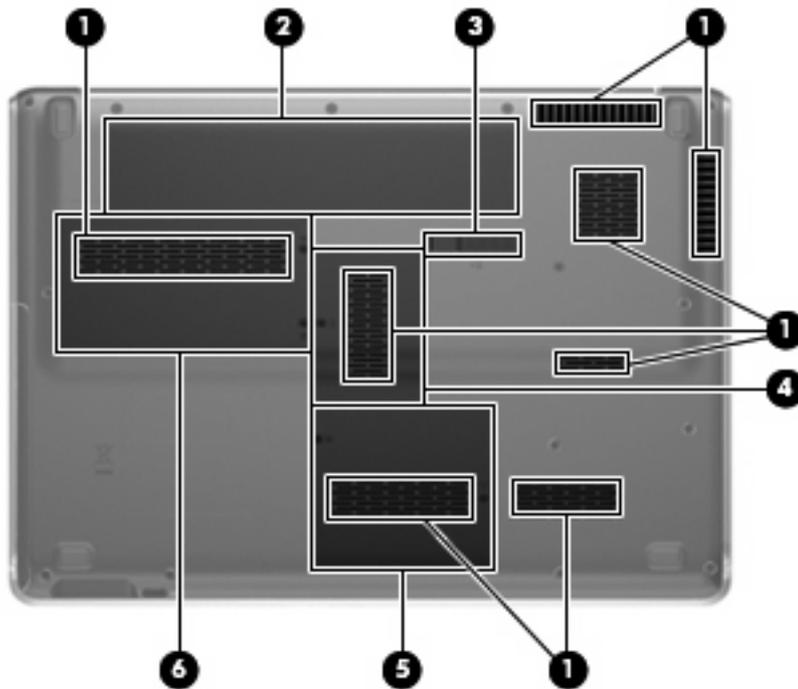
Item	Component	Function
(1)	Optical drive light	Blinking: The optical drive is being accessed.
(2)	Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(3)	USB ports (2)	Connect optional USB devices.
(4)	TV antenna jack (select models only)	Connects a TV antenna, a digital 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)	Power connector	Connects an AC adapter.

Left-side components



Item	Component	Function
(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 expansion port 3 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	Connects an optional high-performance eSATA component, such as an eSATA external hard drive, or an optional USB device.
(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)	Digital Media Slot light	On: A digital card is being accessed.
(9)	Digital Media Slot	Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD), xD-Picture Card (XD) Type H, xD-Picture Card (XD) Type M.
(10)	ExpressCard slot	Supports optional ExpressCard/54 cards.

Bottom components



Item	Component	Function
(1)	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.
(2)	Battery bay	Holds the battery.
(3)	Battery release latch	Releases the battery from the battery bay.
(4)	Memory module compartment	Contains the memory module slots.
(5)	Mini Card module compartment	Holds the TV tuner card and, for select models only, the Intel Turbo Memory card.
(6)	Hard drive bay and WLAN module	Holds the hard drive and the WLAN module. 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.

3 Illustrated parts catalog

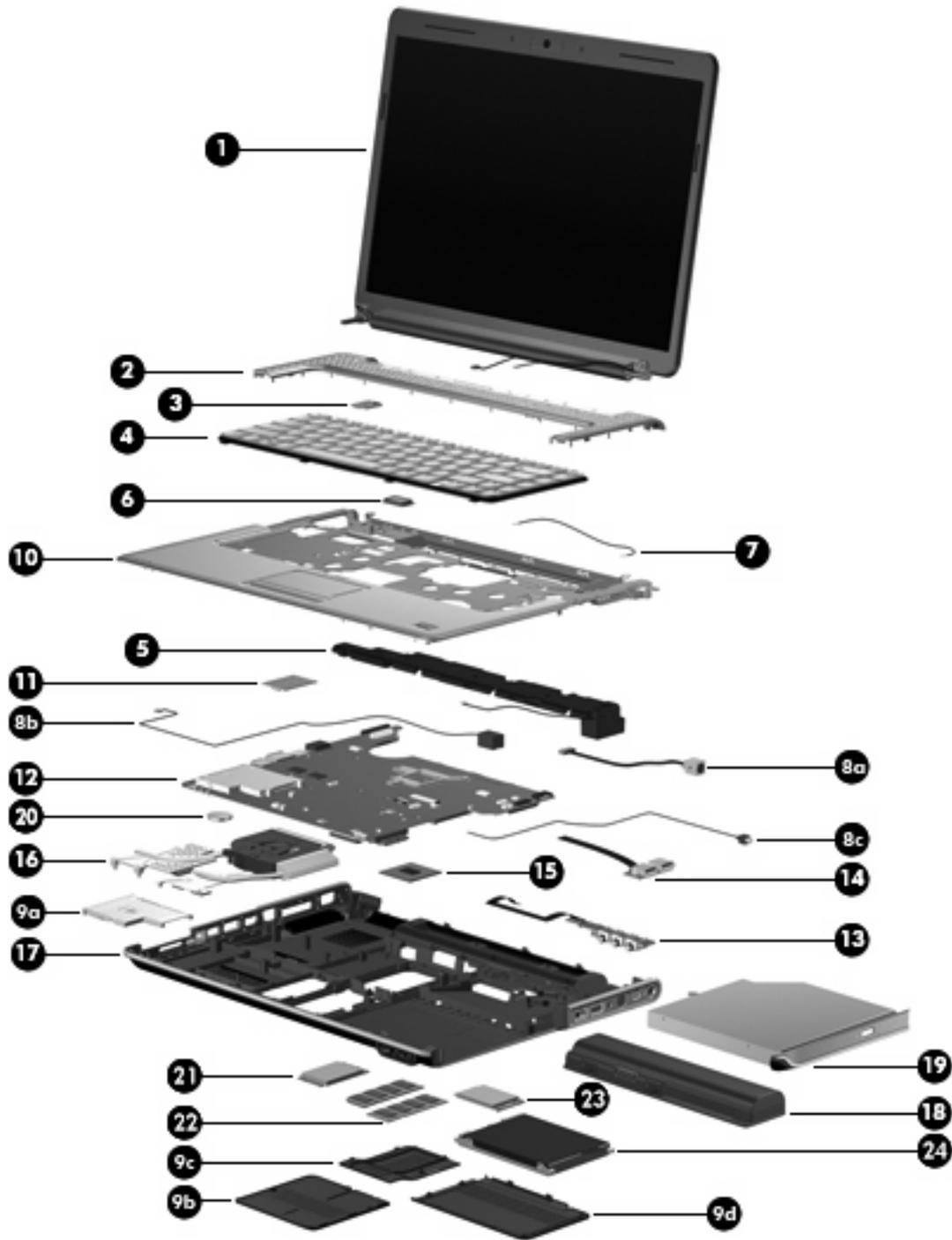
Service tag

The service tag, affixed to the bottom of the computer, provides information that may be needed when troubleshooting system problems. The service tag provides the following information:

- (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 number needed to locate documents, drivers, and support for the computer.
- (5) Warranty period: Describes the duration of the warranty period for the computer.



Computer major components



Item	Description	Spare part number
(1)	15.4-inch display assemblies (include wireless antenna transceivers and cables)	
	WSXGA+ AntiGlare display assembly with webcam and 2 microphones	484372-001
	WSXGA+ BrightView display assembly with webcam and 2 microphones	484368-001
	WXGA AntiGlare display assembly with webcam and 2 microphones	484371-001

Item	Description	Spare part number
	WXGA Brightview display assembly with webcam and 2 microphones	484367-001
	NOTE: See Display assembly components on page 27 for more information on display assembly spare part numbers.	
(2)	Switch cover (includes LED board and cable)	488316-001
(3)	Power button board (includes cable)	486796-001
(4)	Keyboards (include keyboard cable)	
	Belgium	488590-A41
	Brazil	488590-201
	Canada	488590-121
	The Czech Republic	488590-221
	Denmark, Norway, and Sweden	488590-DH1
	France	488590-051
	Germany	488590-041
	Greece	488590-151
	Hungary	488590-211
	Israel	488590-BB1
	Italy	488590-061
	Japan	488590-291
	Latin America	488590-161
	The Netherlands and Europe	488590-B31
	Portugal	488590-131
	Russia	488590-251
	Saudi Arabia	488590-171
	South Korea	488590-AD1
	Spain	488590-071
	Switzerland	488590-111
	Taiwan	488590-AB1
	Thailand	488590-281
	Turkey	488590-141
	The United Kingdom	488590-031
	The United States	488590-001
(5)	Speaker assembly	486801-001
(6)	Bluetooth® modules (do not include a Bluetooth module cable)	
	For use only with computer models equipped with AMD processors	412766-002
	For use only with computer models equipped with Intel processors	483113-001

Item	Description	Spare part number
(7)	Bluetooth module cable	489822-001
	Cable Kit , includes:	501891-001
	NOTE: See Cable Kit on page 31 for more Cable Kit spare part information.	
(8a)	Power connector cable	
(8b)	Modem module cable	
(8c)	TV tuner module antenna cable	
	Plastics Kit , includes:	486793-001
	NOTE: See Plastics Kit on page 30 for more Cable Kit spare part information.	
(9a)	ExpressCard slot bezel	
(9b)	Mini Card module compartment cover	
(9c)	Memory module compartment cover	
(9d)	Hard drive bay cover	
(10)	Top covers (include TouchPad and TouchPad buttons):	
	For use only with computer models equipped with a fingerprint reader	486527-001
	For use only with computer models not equipped with a fingerprint reader	486526-001
(11)	Modem modules:	
	NOTE: The modem module spare part kits do not include a modem module cable. The modem module cable is included in the Cable Kit, spare part number 501891-001.	
	For use in all countries and regions except Australia and New Zealand	461749-001
	For use only in Australia and New Zealand	461749-011
(12)	System boards (include replacement thermal material):	
	For use only with computer models equipped with AMD processors:	
	<ul style="list-style-type: none"> With RX781 Northbridge and ATI-M82-S discrete graphics subsystem memory 	482324-001
	<ul style="list-style-type: none"> With RS780 Northbridge and ATI-M UMA graphics subsystem memory 	482325-001
	For use only with computer models equipped with Intel processors:	
	<ul style="list-style-type: none"> With PM45 Northbridge and nVidia NB9P-GS discrete graphics subsystem memory and 512-GB of graphics subsystem memory 	482870-001
	<ul style="list-style-type: none"> With PM45 Northbridge and nVidia NB9M-GE discrete graphics subsystem memory and 256-GB of graphics subsystem memory 	482867-001
	<ul style="list-style-type: none"> With GM45 Northbridge and UMA graphics subsystem memory 	482869-001
	<ul style="list-style-type: none"> With ICH9M Northbridge and UMA graphics subsystem memory 	482868-001
(13)	Audio/infrared board (includes cable)	486797-001
(14)	USB board (includes cable)	486798-001
(15)	Processors (include replacement thermal material):	
	AMD processors:	

Item	Description	Spare part number
	<ul style="list-style-type: none"> Turion Ultra Dual-Core 35W ZM-86 2.40-GHz processor with 2-MB L2 cache 	484260-001
	<ul style="list-style-type: none"> Turion Ultra Dual-Core 35W ZM-82 2.20-GHz, processor with 2-MB L2 cache 	484261-001
	<ul style="list-style-type: none"> Turion Ultra Dual-Core 35W ZM-80 2.10-GHz, processor with 2-MB L2 cache 	484262-001
	<ul style="list-style-type: none"> Turion Dual-Core 35W RM-70 2.00-GHz with 1-MB L2 cache 	484263-001
	<ul style="list-style-type: none"> Athlon X2 Dual-Core 35W QL-60 1.90-GHz with 1-MB L2 cache 	484264-001
	Intel processors:	
	<ul style="list-style-type: none"> Intel Core2 Duo T9600 2.80-GHz processor with 6-MB L2 cache and 1066-MHz FSB 	483859-001
	<ul style="list-style-type: none"> Intel Core2 Duo T9400 2.53-GHz processor with 6-MB L2 cache and 1066-MHz FSB 	483860-001
	<ul style="list-style-type: none"> Intel Core Duo T8600 2.40-GHz processor with 3-MB L2 cache and 1066-MHz FSB 	483861-001
	<ul style="list-style-type: none"> Intel Core Duo T8400 2.26-GHz processor with 3-MB L2 cache and 1066-MHz FSB 	486523-001
(16)	Fan/heat sink assemblies (include replacement thermal material):	
	For use only with computer models equipped with AMD processors and graphics subsystems with discrete memory	493001-001
	For use only with computer models equipped with AMD processors and graphics subsystems with UMA memory	491572-001
	For use only with computer models equipped with Intel processors and graphics subsystems with discrete memory	486799-001
	For use only with computer models equipped with Intel processors and graphics subsystems with UMA memory	492314-001
(17)	Base enclosures (include rubber feet)	
	For use only with computer models equipped with a 1394 port, modem module, and TV tuner module	486783-001
	For use only with computer models equipped with a 1394 port and modem module, but not a TV tuner module	486784-001
	For use only with computer models equipped with a 1394 port and TV tuner module, but not a modem module	486785-001
	For use only with computer models equipped with a 1394 port, but not a modem module or a TV tuner module	486786-001
	For use only with computer models equipped with a modem module and a TV tuner module, but not a 1394 port	486787-001
	For use only with computer models equipped with a TV tuner module, but not a 1394 port or modem module	486788-001
	For use only with computer models equipped with a modem module, but not a 1394 port or TV tuner module	486789-001
	For use only with computer models not equipped with a 1394 port, modem module, or TV tuner module	486790-001
	Rubber Feet Kit (not illustrated, includes 4 base enclosure rubber feet)	486794-001

Item	Description	Spare part number
(18)	Batteries:	
	12-cell, 95-Wh, 2.55-Ah Li-ion battery for use with all computer models	484172-001
	6-cell, 55-Wh, 2.55-Ah Li-ion battery for use with all computer models	484171-001
	6-cell, 47-Wh, 2.55-Ah Li-ion battery for use only with computer models equipped with AMD processors	484170-002
	6-cell, 47-Wh, 2.55-Ah Li-ion battery for use only with computer models equipped with Intel processors	484170-001
(19)	Optical drives (include bezel and bracket):	
	Blu-ray Disc ROM Drive with SuperMulti DVD±R/RW Double-Layer, LightScribe, and bronze bezel	486525-002
	Blu-ray Disc ROM Drive with SuperMulti DVD±R/RW Double-Layer, LightScribe, and silver bezel	486525-001
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe and bronze bezel for use only with computer models equipped with AMD processors	483864-003
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe and bronze bezel for use only with computer models equipped with Intel processors	483864-002
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe and silver bezel	483864-001
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with bronze bezel	483863-002
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with silver bezel	483863-001
(20)	RTC battery	491571-001
(21)	TV tuner modules:	
	NOTE: The TV tuner module spare part kits do not include a TV tuner module cable. The TV tuner module cable is included in the Cable Kit, spare part number 501891-001.	
	DVB-T TV tuner module	482899-003
	DVB-T/ANG TV tuner module	482899-002
	NTSC/ATSC/ANG TV tuner module	482899-001
	TV tuner external antenna cables (not illustrated):	
	With F-PAL jack	482900-001
	With PAL jack	482900-002
(22)	Memory modules (667-MHz, PC2-5300, 1-DIMM):	
	2048-MB memory module for use only with computer models equipped with AMD processors	484268-002
	1024-MB memory module for use only with computer models equipped with AMD processors	484267-002
	2048-MB memory module for use only with computer models equipped with Intel processors	484268-001
	1024-MB memory module for use only with computer models equipped with Intel processors	484267-001