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HP Pavilion tx2000 Entertainment PC
Maintenance and Service Guide

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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; on troubleshooting computer problems; and on performing computer disassembly procedures.

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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
Product Name	**HP Pavilion tx2000 Entertainment PC**
Processors	AMD Turion™ 64 Mobile Technology TL-68 processor, 2.4-GHz, 1-MB L2 cache, 800-MHz front side bus (FSB)
	AMD Turion 64 Mobile Technology TL-66 processor, 2.3-GHz, 1-MB L2 cache, 800-MHz FSB
	AMD Turion 64 Mobile Technology TL-64 processor, 2.2-GHz, 1-MB L2 cache, 800-MHz FSB
	AMD Turion 64 Mobile Technology TL-62 processor, 2.1-GHz, 1-MB L2 cache, 800-MHz FSB
	AMD Turion 64 Mobile Technology TL-60 processor, 2.0-GHz, 1-MB L2 cache, 800-MHz FSB
	AMD Turion 64 Mobile Technology TL-58 processor, 1.9-GHz, 1-MB L2 cache, 800-MHz FSB
	AMD Mobile Athlon™ TK-57 processor, 1.9-GHz, 512-MB L2 cache, 667-MHz FSB
Chipset	nVidia Northbridge C51M (Mobile Integrated Graphics)
	nVidia Southbridge MCP51
Graphics	Unified memory architecture (UMA) graphics subsystem memory integrated with system memory: • Up to 271-MB on computer models with 1024-MB to 2048-MB system memory • Up to 527-MB on computer models with 2048-MB or more of system memory
	Graphics subsystem memory size is dynamic change
Panels	12.1-inch, WXGA (1280 × 800, 16:10 aspect ratio) BrightView with touch-screen + Wacom digitizer
	Typical brightness: 200 nits
Memory	• Two SODIMM slots • Customer accessible/upgradable • Dual-channel support
	• DDRII PC2-5300 (667 MHz)
	4096-MB total system memory (2048 MB × 2, dual-channel)
	2048-MB total system memory (1024 MB × 2, dual-channel)
	1024-MB total system memory (512 MB × 2, dual-channel)
Hard drives	• Supports all 9.5-mm, 2.5-inch hard drives • Serial ATA
	320-GB, 5400-rpm

Category	Description
	250-GB, 5400-rpm
	160-GB, 5400-rpm
	120-GB, 5400-rpm
Optical drives	• 12.7-mm tray load • Parallel ATA
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive
Web camera	Low-light VGA camera, fixed (no tilt), with activity light, 24 frames per second
Diskette drive	Supports external USB drive only
Audio	• HD audio - Azalia techology • Supports Microsoft Premium requirements • Two omni-directional, dual-array microphones • Beam-forming, echo-cancellation, noise-suppression software • Pavilion-branded Altec Lansing speakers
Modem	• Motorola 56K V.92 data/fax modem • Supports all world wide certification requirements • Modem cable is not included
Ethernet	• Integrated Realtek 10/100/1000 (Gigabit Ethernet) • Ethernet cable included
Wireless	**Integrated wireless local area network (WLAN) options by way of wireless module (includes two 2.4-GHz antennae in display assembly):**
	Broadcom 4321AGN 802.11a/b/g/n + Bluetooth
	Broadcom 4321AGN 802.11a/b/g/n
	Broadcom 4311AG 802.11a/b/g + Bluetooth
	Broadcom 4311AG 802.11a/b/g
	Broadcom 4311G 802.11b/g + Bluetooth
	Broadcom 4311G 802.11b/g
	Broadcom BCM4312 802.11b/g + Bluetooth
	Broadcom BCM4312 802.11b/g
External media card	• One ExpressCard/34 slot, requires slot bezel • 5-in-1 Digital Media Slot, supports SD, MMC, MS, MSpro, xD. With adapter (not included), supports mini versions of SD, MMC, and MS Duo.
Ports	Audio-in (stereo microphone)
	Audio-out (stereo headphone)
	Audio-out (stereo headphone with S/PDIF)

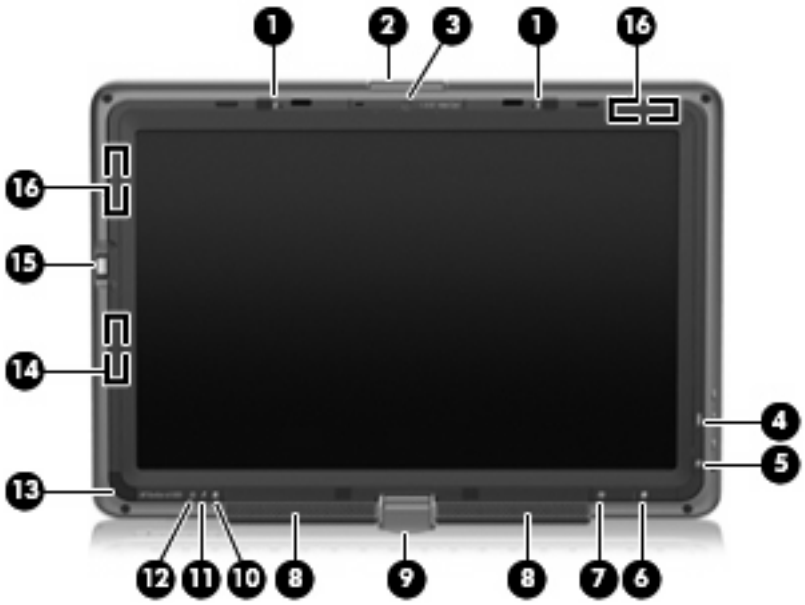
Category	Description
	Consumer infrared (one in computer base, one in display assembly)
	eSATA
	High-definition multimedia interface (HDMI) v1.2 supporting 1080p with high-bandwidth digital content protection (HDCP) key
	RJ-11 (modem)
	RJ-45 (Ethernet), includes link and activity lights
	S-Video-out
	USB (3)
	VGA (Dsub 15 pin) supporting 1600 × 1200 external resolution @ 75 Hz. Disabled when connected to devices through the expansion port 3. Hot plug, unplug, and auto detect for correct output to wide-aspect and standard aspect video.
	1394a
	2-pin 65-W AC power
Docking	Docking support through the expansion port 3. Supports the HP xb3000 Notebook Expansion Base and the HP Notebook QuickDock.
Keyboard/ pointing devices	12.1-inch keyboard with embedded numeric keypad
	Taps enabled as default
	TouchPad with 2 buttons and two-way scroll
	Wacom 9.0-mm touch-screen pen
Power requirements	8-cell. 73-Wh, 2.55-Ah Li-ion battery 6-cell. 55-Wh, 2.55-Ah Li-ion battery 4-cell. 37-Wh, 2.55-Ah Li-ion battery
	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
Operating system	**Preinstalled:**
	Windows Vista® Business (32-bit)
	Windows Vista Premium (32- and 64-bit)
	Windows Vista Ultimate (64-bit)
Serviceability	**End-user replaceable parts:**
	AC adapter
	Battery (system)
	Hard drive
	Memory module

Category	Description
	Optical drive
	WLAN module

2 External component identification

Top components

Display components



Item	Component	Function
(1)	Internal microphones (2)	Record sound.
(2)	Display release latch	Opens the computer.
(3)	Integrated camera (select models only)	Records video and captures still photographs.
(4)	DVD button	Launches the DVD playback feature of the QuickPlay program.
(5)	Media button	Launches the QuickPlay program.
(6)	Mobility Center button	Opens Mobility Center.
(7)	Rotate button	Rotates the screen image clockwise into 4 orientations: landscape primary, landscape secondary, portrait primary, and portrait secondary.
(8)	Speakers (2)	Produce sound.

Item	Component	Function
(9)	Convertible hinge	Swivels the display and converts the computer from traditional notebook mode into slate mode or vice versa. In slate mode, the display is rotated and folded flat, so that you can view content while carrying the computer.
(10)	Drive light	Blinking: The hard drive or optical drive is being accessed.
(11)	Battery light	• 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.
(12)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(13)	Consumer infrared lens	Receives a signal from the HP Remote Control.
(14)	Internal display switch	Turns off the display and initiates Sleep if the display is closed while the power is on.
(15)	Fingerprint reader (select models only)	Allows a fingerprint logon to Windows instead of a password logon.
(16)	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.

Keys

Item	Component	Function
(1)	esc key	Displays system information 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.

Pointing devices

Item	Component	Function
(1)	TouchPad on/off button	Enables/disables the TouchPad.
(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 light	• Blue: TouchPad is enabled. • Amber: TouchPad is disabled.
(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 pointing device preferences, select **Start > Control Panel > Hardware and Sound > Mouse**.

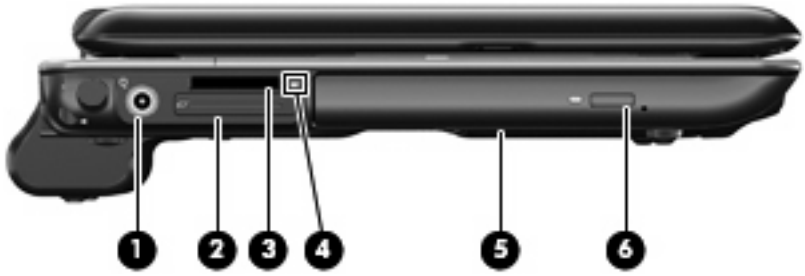
Front components

Item	Component	Function
(1)	Display release latch	Opens the computer.
(2)	Power switch*	• When the computer is off, slide the power switch to the right to turn on the computer. • When the computer is on, slide the power switch to the right to initiate Sleep. • When the computer is in the Sleep state, slide the power switch to the right briefly to exit Sleep. • When the computer is in Hibernation, slide the power switch to the right briefly to exit Hibernation. If the computer has stopped responding and Windows shutdown procedures are not effective, slide the power switch to the right and hold for at least 5 seconds to turn off the computer. To learn more about your power settings, select **Start > Control Panel > System and Maintenance > Power Options**. To learn more about Sleep or Hibernation, refer to the *Power Management* guide.
(3)	Power light	• On: The computer is on. • Blinking: The computer is in the Sleep state. • Off: The computer is off or in Hibernation.
(4)	Consumer infrared lens	Receives a signal from the HP Remote Control.
(5)	Audio-out (headphone) S/PDIF jack	Provides enhanced audio performance, including surround sound and other high-end audio output.
(6)	Audio-out (headphone) jack	Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio.
(7)	Audio-in (microphone) jack	Connects an optional computer headset microphone, stereo array microphone, or monaural microphone.
(8)	Wireless switch	Turns the wireless feature on or off, but does not create a wireless connection. **NOTE:** A wireless network must be set up in order to establish a wireless connection.

Item	Component	Function
(9)	Wireless light	• Blue: An integrated wireless device, such as a WLAN device and/or a Bluetooth® device, is turned on. • Amber: All wireless devices are turned off.

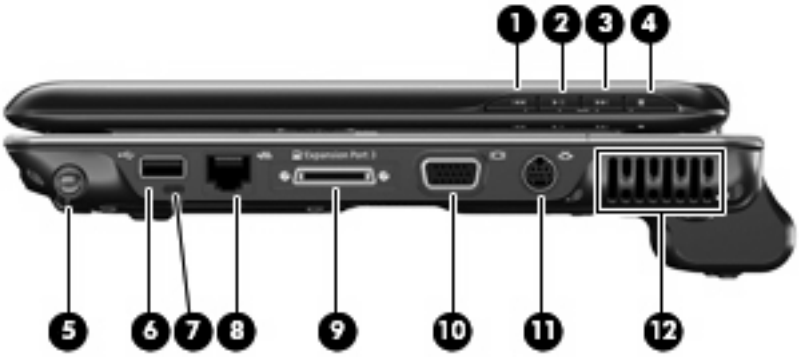
*This table describes factory settings. For information about changing factory settings, refer to the user guides located in Help and Support.

Left-side components



Item	Component	Function
(1)	Power connector	Connects an AC adapter.
(2)	ExpressCard slot	Supports optional ExpressCard/34 cards.
(3)	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 M.
(4)	Digital Media Slot light	On: A digital card is being accessed.
(5)	Optical drive	Reads optical discs and, on select models, also writes to optical discs.
(6)	Optical light	Blinking: The optical drive is being accessed.

Right-side components

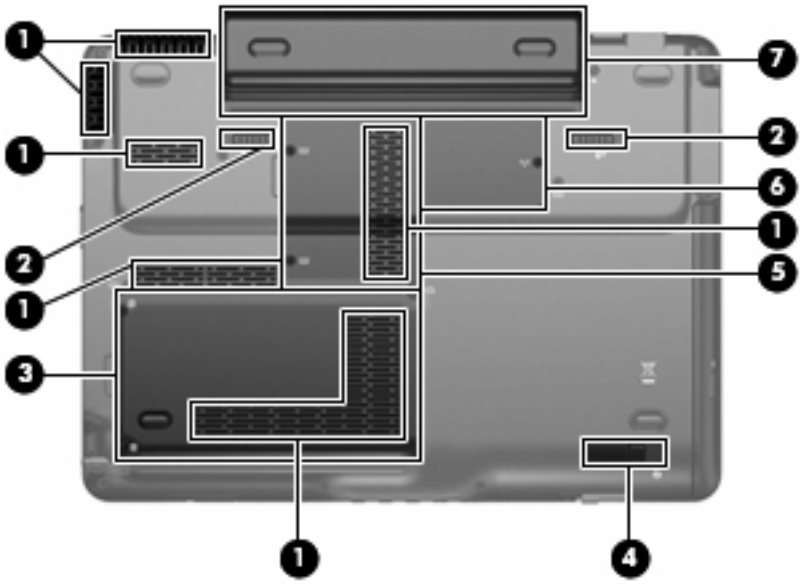


Item	Component	Function
(1)	Previous/rewind button	• Plays the previous track or chapter when the button is pressed once. • Rewinds media when the button is pressed simultaneously with the fn key.
(2)	Play/pause button	Plays or pauses media.
(3)	Next/fast forward button	• Plays the next track or chapter when the button is pressed once. • Fast forwards media when pressed simultaneously with the fn key.
(4)	Stop button	Stops playback.
(5)	Pen holder	Stores the pen.
(6)	USB port	Connects an optional USB device.
(7)	Pen tether hole	Connects the pen tether.
(8)	RJ-45 (network) jack	Connects a network cable.
(9)	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.
(10)	External monitor port	Connects an external VGA monitor or projector.
(11)	S-Video-out jack	Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card.
(12)	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.

Rear components

Item	Component	Function
(1)	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.
(2)	RJ-11 (modem) jack	Connects a modem cable.
(3)	USB ports (2)	Connect optional USB devices.
(4)	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.

Bottom components

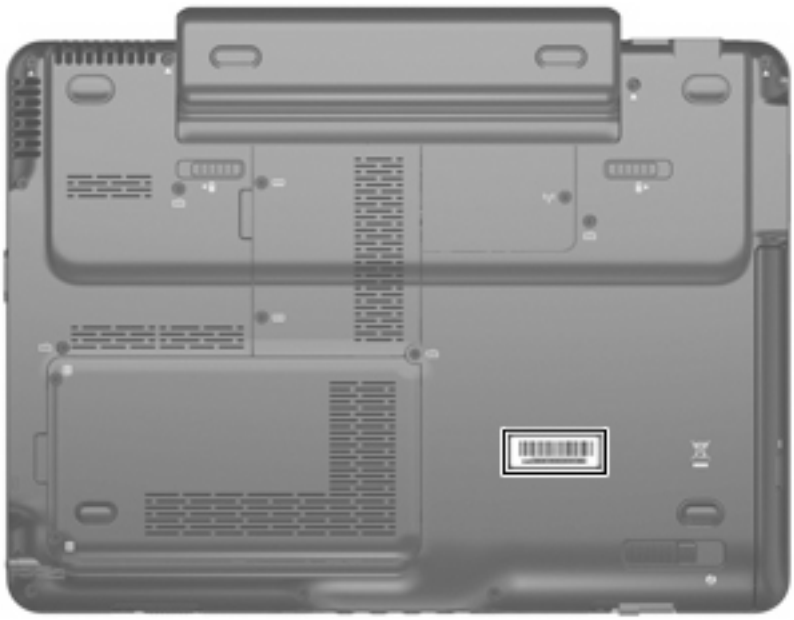


Item	Component	Function
(1)	Vents (6)	Enable airflow to cool internal components. **NOTE:** The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation.
(2)	Battery release latches (2)	Releases the battery from the battery bay.
(3)	Hard drive bay	Holds the hard drive.
(4)	Optical drive release latch	Releases the optical drive from the drive bay.
(5)	Memory module compartment	Contains the memory module slots.
(6)	WLAN module compartment	Holds a WLAN module (select models only). **NOTE:** 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.
(7)	Battery bay	Holds the battery.

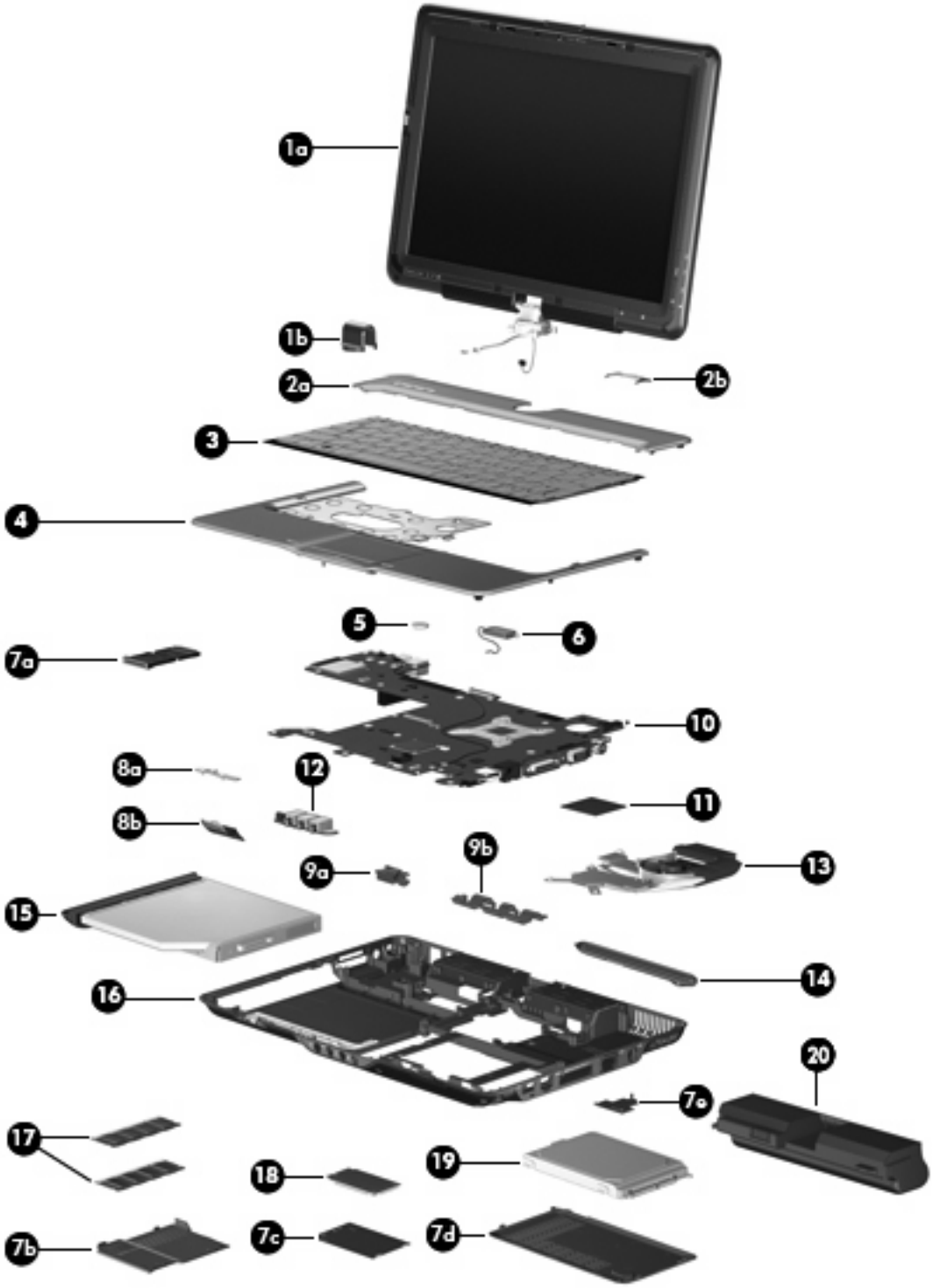
3 Illustrated parts catalog

Serial number location

When ordering parts or requesting information, provide the computer serial number and model number located on the bottom of the computer.



Computer major components



Item	Description	Spare part number
(1a)	**Display assemblies**	

Item	Description	Spare part number
	12.1-inch, WXGA, BrightView touch-screen display assembly with Web camera, fingerprint reader, microphones, and WLAN antenna cables	464144-001
	12.1-inch, WXGA, BrightView touch-screen display assembly with Web camera, microphones, and WLAN antenna cables	464142-001
	12.1-inch, WXGA, BrightView touch-screen display assembly with fingerprint reader, microphones and WLAN antenna cables	464145-001
	12.1-inch, WXGA, BrightView touch-screen display assembly with microphones and WLAN antenna cables	464143-001
(1b)	**Display convertible hinge cover** (included with display assembly)	
	Display Rubber Kit (not illustrated, includes 8 display bezel rubber screw covers)	464824-001
(2a)	**Switch cover**	464115-001
(2b)	**Switch cover trim** (included with switch cover)	
(3)	**Keyboards**	
	Brazil	464138-201
	Denmark, Norway, and Sweden	464138-DH1
	Europe	464138-051
	France	464138-041
	French Canada	464138-121
	Germany	464138-041
	Italy	464138-061
	Japan	464138-291
	Latin America	464138-161
	The Netherlands	464138-B31
	Portugal	464138-131
	Russia	464138-251
	Saudi Arabia	464138-171
	South Korea	464138-AD1
	Spain	464138-071
	Taiwan	464138-AB1
	Thailand	464138-281
	Turkey	464138-141
	The United Kingdom	464138-031
	The United States and Canada	464138-001
(4)	**Top cover** (includes TouchPad and TouchPad cable, caps lock light board and cable, and top cover bumper pads)	464111-001
(5)	**RTC battery**	412390-001

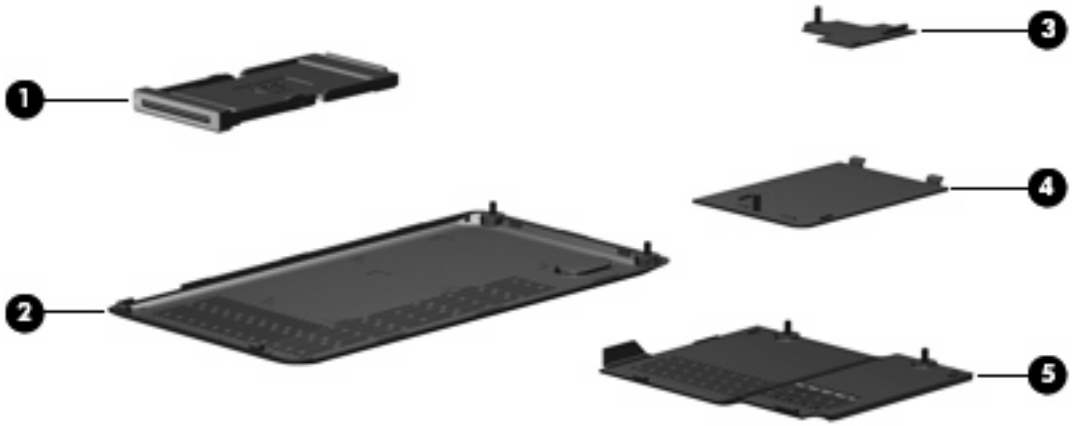
Item	Description	Spare part number
(6)	**Bluetooth module** (includes Bluetooth module cable)	412766-002
	Plastics Kit	464114-001
(7a)	ExpressCard slot bezel	
(7b)	Memory module compartment cover (includes 2 captive screws, secured by C-clips)	
(7c)	WLAN module compartment cover (includes 1 captive screw, secured by a C-clip)	
(7d)	Hard drive cover (includes one rubber foot and 2 captive screws, secured by C-clips)	
(7e)	Display connector cover (includes 1 captive screw, secured by a C-clip)	
(8a)	**Power switch assembly** (includes power switch board cable and power switch board actuator)	441142-001
(8b)	**Power switch board actuator**	
(9a)	**Pen eject assembly** (includes pen holder)	464113-001
(9b)	**Pen holder**	
(10)	**System board** (includes replacement thermal material)	463649-001
(11)	**Processors** (include replacement thermal paste)	
	AMD Turion 64 Mobile Technology TL-68 (2.4-GHz, 1-MB L2 cache, 800-MHz FSB)	459819-001
	AMD Turion 64 Mobile Technology TL-66 (2.3-GHz, 1-MB L2 cache, 800-MHz FSB)	463635-001
	AMD Turion 64 Mobile Technology TL-64 (2.0-GHz, 1-MB L2 cache, 800-MHz FSB)	463634-001
	AMD Turion 64 Mobile Technology TL-62 (2.1-GHz, 1-MB L2 cache, 800-MHz FSB)	456023-001
	AMD Turion 64 Mobile Technology TL-60 (2.0-GHz, 1-MB L2 cache, 800-MHz FSB)	463632-001
	AMD Turion 64 Mobile Technology TL-58 (1.9-GHz, 512-KB L2 cache, 800-MHz FSB)	448561-001
	AMD Turion 64 Mobile Technology TK-57 (1.9-GHz, 512-KB L2 cache, 667-MHz FSB)	459811-001
(12)	**Audio/infrared board** (includes audio/infrared board cable)	441144-001
(13)	**Fan/heat sink assembly** (includes replacement thermal paste and thermal pads)	441143-001
(14)	**Pen**	464146-001
(15)	**Optical drives** (include bezel)	
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe	441130-002
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive	441129-002
(16)	**Base enclosure** (includes optical drive release assembly, 2 battery release latches, and 4 rubber feet)	466437-001
	Rubber Feet Kit (not illustrated, includes base enclosure rubber feet)	464821-001
(17)	**Memory modules** (1-DIMM, PC2-5300, 667-MHz)	
	2048-MB	455454-002
	1024-MB	441406-002
	512-MB	441405-002
(18)	**WLAN modules**	

Item	Description	Spare part number
	Broadcom 4321AGN 802.11a/b/g/n WLAN modules:	
	• For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States	453730-001
	• For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belgium, Belize, Benin, Bermuda, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Cayman Islands, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equitorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Guadeloupe, Guam, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Italy, the Ivory Coast, Jamaica, Jordan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Puerto Rico, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe	453730-002
	• For use in Japan	453730-291
	Broadcom 4311AG 802.11a/b/g WLAN modules:	
	• For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States	441075-001
	• For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belgium, Belize, Benin, Bermuda, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Cayman Islands, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equitorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Guadeloupe, Guam, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Italy, the Ivory Coast, Jamaica, Jordan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Puerto Rico, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda,	441075-002

Item	Description	Spare part number
	the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe	
	• For use in Japan	441075-291
	Broadcom 4311G 802.1b/g WLAN modules:	
	• For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States	441090-001
	• For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belgium, Belize, Benin, Bermuda, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Cayman Islands, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equitorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Guadeloupe, Guam, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Italy, the Ivory Coast, Jamaica, Jordan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Puerto Rico, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone, Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe	441090-002
	• For use in Japan	441090-291
	Broadcom BCM4312 802.11b/g WLAN modules:	
	• For use in Canada, the Cayman Islands, Guam, Puerto Rico, the U.S. Virgin Islands, and the United States	459263-001
	• For use in Afghanistan, Albania, Algeria, Andorra, Angola, Antigua and Barbuda, Argentina, Armenia, Aruba, Australia, Austria, Azerbaijan, the Bahamas, Bahrain, Bangladesh, Barbados, Belgium, Belize, Benin, Bermuda, Bolivia, Bosnia and Herzegovina, Botswana, Brazil, the British Virgin Islands, Brunei, Bulgaria, Burkina Faso, Burundi, Cameroon, Cape Verde, the Cayman Islands, the Central African Republic, Chad, Chile, Colombia, Comoros, the Congo, Costa Rica, Croatia, Cyprus, the Czech Republic, Denmark, Djibouti, Dominica, the Dominican Republic, East Timor, Ecuador, Egypt, El Salvador, Equitorial Guinea, Eritrea, Estonia, Ethiopia, Fiji, Finland, France, French Guiana, Gabon, Gambia, Georgia, Germany, Ghana, Gibraltar, Greece, Guadeloupe, Guam, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, Hong Kong, Hungary, Iceland, India, Ireland, Italy, the Ivory Coast, Jamaica, Jordan, Kenya, Kiribati, Kyrgyzstan, Laos, Latvia, Lesotho, Liberia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Madagascar, Malawi, the Maldives, Mali, Malta, the Marshall Islands, Martinique, Mauritania, Mauritius, Mexico, Micronesia, Monaco, Mongolia, Montenegro, Morocco, Mozambique, Namibia, Nauru, Nepal, the Netherlands, New Zealand, Nicaragua, Niger, Nigeria, Norway, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, the People's Republic of China, Peru, the Philippines, Poland, Portugal, Puerto Rico, the Republic of Moldova, Romania, Russia, Rwanda, Samoa, San Marino, Sao Tome and Principe, Saudi Arabia, Senegal, Serbia, the Seychelles, Sierra Leone,	459263-002

Item	Description	Spare part number
	Singapore, Slovakia, Slovenia, the Solomon Islands, Somalia, South Africa, Spain, Sri Lanka, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Suriname, Swaziland, Sweden, Switzerland, Taiwan, Tajikistan, Tanzania, Togo, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Tuvalu, Uganda, the United Arab Emirates, the United Kingdom, Uruguay, Uzbekistan, Venezuela, Vietnam, Yemen, Zaire, Zambia, and Zimbabwe	
(19)	**Hard drives** (all 5400-rpm) include hard drive bracket and hard drive connector	
	320-GB	463643-002
	250-GB	457061-002
	160-GB	441128-002
	120-GB	441127-002
	Hard Drive Hardware Kit (not illustrated) includes hard drive bracket, hard drive connector, and hard drive screws	463644-001
(20)	**Batteries**	
	8-cell, 73-Ah, 2.55-Ah	463650-002
	6-cell, 55-Ah, 2.55-Ah	441132-002
	4-cell, 37-Ah, 2.55-Ah	441131-002

Plastics Kit



Item	Description	Spare part number
	Plastics Kit	464114-001
(1)	ExpressCard slot bezel	
(2)	Hard drive cover (includes 1 rubber foot and 2 captive screws, secured by C-clips)	
(3)	Display connector cover (includes 1 captive screw, secured by a C-clip)	
(4)	WLAN module compartment cover (includes 1 captive screw, secured by a C-clip)	
(5)	Memory module compartment cover (includes 2 captive screws, secured by C-clips)	

Mass storage devices

Item	Description	Spare part number
(1)	**Hard drives** (all 5400-rpm) include frame and hard drive connector	
	320-GB	463463-002
	250-GB	457061-002
	160GB	441128-002
	120-GB	441127-002
(2)	**Optical drives** (include bezel and bracket)	
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive with LightScribe	441130-002
	DVD±RW and CD-RW SuperMulti Double-Layer Combo Drive	441129-002

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Miscellaneous parts

Description	Spare part number
65-watt AC adapter	417220-001
ATSC/NTSC TV tuner antenna	455457-001
ATSC/NTSC TV tuner	455456-001
Audio/video cable	455459-001
Cat5E cable (3.6-mm)	454619-001
DVB-T TV tuner	412175-002
DVB-T TV tuner antenna	412176-003
DVB-T TV tuner antenna adapter	412176-001
HP backpack	405527-001
HP carrying case	418162-001
HP Remote Control III	435675-001
Infrared emitter with cable	439129-001
Optical wired mouse	436238-001
Power cords:	
Argentina	394279-D01
Australia	394279-011
Brazil	394279-201
Denmark	394279-081
Europe	394279-021
India	394279-D61
Italy	394279-061
Japan	394279-291
North America	394279-001
The People's Republic of China	394279-AA1
South Korea	394279-AD1
Taiwan	394279-AB1
The United Kingdom	394279-031
Screw Kit • Phillips PM3.0×3.0 screw • Phillips PM2.5×6.0 screw • Phillips PM2.0×11.0 screw • Black Phillips PM2.0×7.0 captive screw	464116-001

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