

Product: 2005 HP Pavilion ze2300/Compaq Presario M2300 Notebook PC Ser
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Maintenance and Service Guide

HP Pavilion ze2300 Notebook PC
Compaq Presario M2300 Notebook PC

Document Part Number: 383111-002

November 2005

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

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First Edition February 2005
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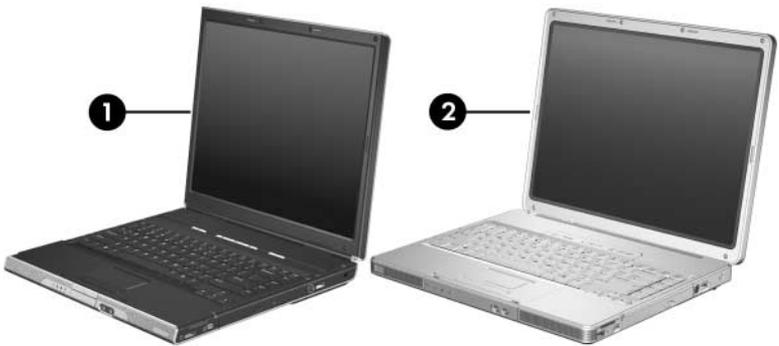
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Product Description

The HP Pavilion ze2300 Notebook PC ❶ and the Compaq Presario M2300 Notebook PC ❷ offer advanced modularity, Intel® Mobile Pentium® M and Celeron® M processors, and extensive multimedia support.



HP Pavilion ze2300 and Compaq Presario M2300

1.1 Features



Numerous references are made throughout this *Maintenance and Service Guide* to “full-featured” and “defeatured” computer models. A model is considered to be full-featured if it has 3 Universal Serial Bus ports and the following components:

- S-Video-out jack
- Expansion port 2
- 6-in-1 Digital Media Slot or 6-in-1 Memory Reader

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

-
- The following processors are available, varying by computer model:
 - ❑ Intel Pentium M 750 (1.80-GHz) with 400-MHz front-side bus (FSB)
 - ❑ Intel Pentium M 740 (1.70-GHz) with 400-MHz FSB
 - ❑ Intel Pentium M 735A (1.70-GHz) with 400-MHz FSB
 - ❑ Intel Pentium M 730 (1.60-GHz) with 400-MHz FSB
 - ❑ Intel Pentium M 725A (1.60-GHz) with 400-MHz FSB
 - ❑ Intel Celeron M 380 (1.70-GHz) with 400-MHz FSB
 - ❑ Intel Celeron M 370 (1.50-GHz) with 400-MHz FSB
 - ❑ Intel Celeron M 360 (1.40-GHz) with 400-MHz FSB
 - ❑ Intel Celeron M 350 (1.30-GHz) with 400-MHz FSB



Full-featured models feature both Intel Pentium M and Celeron M processors. Defeatured models feature only Celeron M processors.

- 15.0-inch XGA (1024 × 768) TFT display with over 16.7 million colors
- 80-, 60-, or 40-GB high-capacity hard drive, varying by computer model
- 256-MB DDR2 synchronous DRAM (SDRAM) at 400 MHz, expandable to 1.0 GB
- Microsoft® Windows® XP Home Edition or Windows XP Professional, varying by computer model
- Full-size Windows keyboard with embedded numeric keypad
- TouchPad pointing device with dedicated vertical scroll region
- Integrated 10Base-T/100 Base-TX Ethernet local area network (LAN) network interface card (NIC) with RJ-45 jack
- Integrated high-speed 56K modem with RJ-11 jack
- Integrated wireless support for Mini PCI IEEE 802.11b and 802.11b/g WLAN device
- Support for one Type II PC Card slot, with support for both 32-bit (CardBus) and 16-bit PC Cards
- External 65-watt AC adapter with 3-wire power cord
- 6-cell or 12-cell Li-Ion battery pack
- Stereo speakers with volume up and down buttons
- Support for the following optical drives:
 - 8X DVD-ROM drive
 - 24X DVD/CD-RW Combo Drive
 - 8X DVD±RW/R and CD-RW Combo Dual Layer Drive

- Connectors:
 - ❑ External monitor port
 - ❑ Universal Serial Bus (USB) v. 2.0 (up to 3 ports)
 - ❑ RJ-11 (modem) jack
 - ❑ RJ-45 (network) jack
 - ❑ Audio-out (headphone) jack
 - ❑ Audio-in (microphone) jack
 - ❑ Power
 - ❑ IEEE 1394 digital port
 - ❑ S-Video-out jack (select models only)
 - ❑ Expansion port 2 (select models only)
 - ❑ 6-in-1 Digital Media Slot (select models only)
 - ❑ 6-in-1 Memory Reader (select models only)

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. Prepare the computer for disassembly (refer to [Section 5.3, “Preparing the Computer for Disassembly,”](#) for more information).
2. Remove the real-time clock (RTC) battery (refer to [Section 5.14, “RTC Battery,”](#) for more information).

3. Wait approximately 5 minutes.
4. Replace the RTC battery and reassemble the computer.
5. Connect AC power to the computer. Do not reinsert any battery packs at this time.
6. Turn on the computer.

All passwords and all CMOS settings have been cleared.

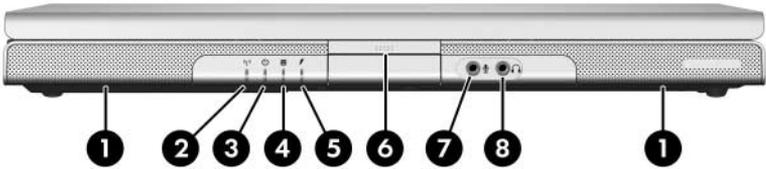
1.3 Power Management

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

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

1.4 External Components

The external components on the front of the HP Pavilion ze2300 computer are shown below and described in Table 1-1.

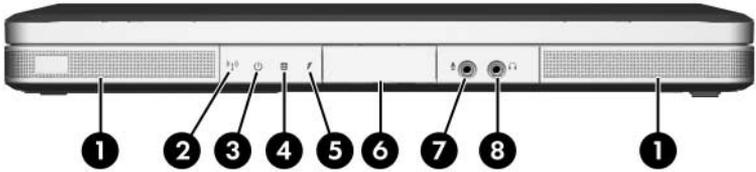


Front Components, HP Pavilion ze2300

Table 1-1
Front Components
HP Pavilion ze2300

Item	Component	Function
1	Speakers (2)	Produce stereo sound.
2	Wireless light (select models only)	On: One or more optional internal wireless devices, such as a WLAN and/or a Bluetooth® module (select models only), are turned on.
3	Power light	<ul style="list-style-type: none"> ■ On: Computer is turned on. ■ Blinking: Computer is in standby. ■ Off: Computer is off.
4	IDE (Integrated Drive Electronics) drive light	On or blinking: The internal hard drive or an optical drive is being accessed.
5	Battery light	<ul style="list-style-type: none"> ■ On: The battery pack is charging. ■ Blinking: The battery pack has reached a low-battery condition. ■ Off: The battery pack is fully charged or not inserted.
6	Display release button	Opens the computer.
7	Audio-in (microphone) jack	Connects an optional monaural (single sound channel) microphone.
8	Audio-out (headphone) jack	Connects optional headphones or powered stereo speakers. Also connects the audio function of an audio/video device such as a television or VCR.

The external components on the front of the Compaq Presario M2300 computer are shown below and described in Table 1-2.



Front Components, Compaq Presario M2300

Table 1-2
Front Components
Compaq Presario M2300

Item	Component	Function
1	Speakers (2)	Produce stereo sound.
2	Wireless light (select models only)	On: One or more optional internal wireless devices, such as a WLAN and/or a Bluetooth module (select models only), are turned on.
3	Power light	<ul style="list-style-type: none"> ■ On: Computer is turned on. ■ Blinking: Computer is in standby. ■ Off: Computer is off.
4	IDE (Integrated Drive Electronics) drive light	On or blinking: The internal hard drive or an optical drive is being accessed.
5	Battery light	<ul style="list-style-type: none"> ■ On: The battery pack is charging. ■ Blinking: The battery pack has reached a low-battery condition. ■ Off: The battery pack is fully charged or not inserted.
6	Display release button	Opens the computer.
7	Audio-in (microphone) jack	Connects an optional monaural (single sound channel) microphone.
8	Audio-out (headphone) jack	Connects optional headphones or powered stereo speakers. Also connects the audio function of an audio/video device such as a television or VCR.

The external components on the right side of the HP Pavilion ze2300 computer are shown below and described in Table 1-3.



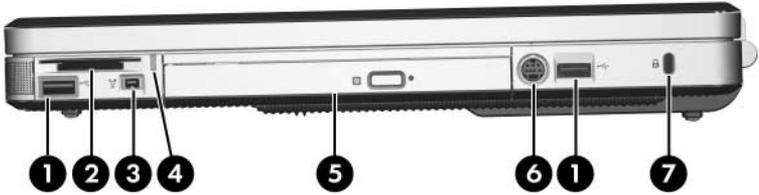
Right-Side Components, HP Pavilion ze2300

Table 1-3
Right-Side Components
HP Pavilion ze2300

Item	Component	Function
1	USB ports (1 or 2 depending on the computer model)	Connect an optional USB device.
2	6-in-1 Digital Media Slot (select models only)	Supports an optional digital memory card.
3	1394 port (select models only)	Connects an optional 1394a device such as a scanner, digital camera, or digital camcorder.
4	6-in-1 Digital Media Slot light (select models only)	On: A digital memory card is being accessed.
5	Optical drive	Supports an optical disc.
6	S-Video-out jack (select models only)	Connects an optional S-Video device, such as a television, VCR, camcorder, projector, or video capture card.
7	Security cable slot	Attaches an optional security cable to the computer.

 Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.

The external components on the right side of the Compaq Presario M2300 computer are shown below and described in Table 1-4.



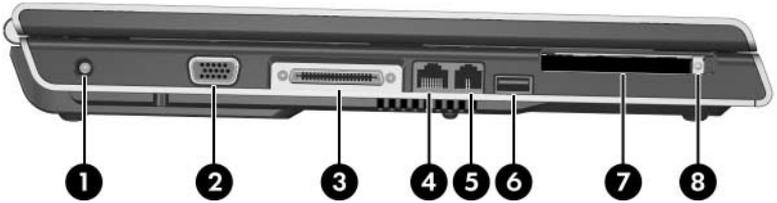
Right-Side Components, Compaq Presario M2300

Table 1-4
Right-Side Components
Compaq Presario M2300

Item	Component	Function
1	USB ports (1 or 2 depending on the computer model)	Connect optional USB devices.
2	6-in-1 Memory Reader (select models only)	Supports an optional digital memory card.
3	1394 port (select models only)	Connects an optional 1394a device such as a scanner, digital camera, or digital camcorder.
4	6-in-1 Memory Reader light (select models only)	On: A digital memory card is being accessed.
5	Optical drive	Supports an optical disc.
6	S-Video-out jack (select models only)	Connects an optional S-Video device, such as a television, VCR, camcorder, projector, or video capture card.
7	Security cable slot	Attaches an optional security cable to the computer.

 Security solutions are designed to act as deterrents. These deterrents may not prevent a product from being mishandled or stolen.

The external components on the left side of the HP Pavilion ze2300 computer are shown below and described in Table 1-5.



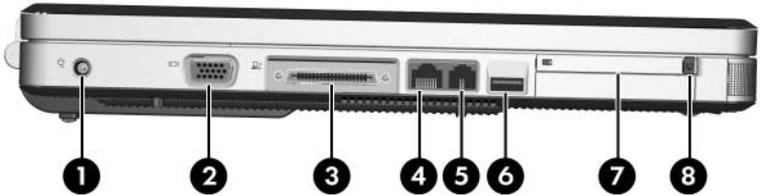
Left-Side Components, HP Pavilion ze2300

Table 1-5
Left-Side Components
HP Pavilion ze2300

Item	Component	Function
1	Power connector	Connects an AC adapter cable.
2	Monitor port	Connects an optional VGA monitor or projector.
3	Expansion port 2* (select models only)	Connects the computer to an optional docking device.
4	RJ-45 jack	Connects an optional network cable.
5	RJ-11 jack	Connects the modem cable.
6	USB port	Connects an optional USB device.
7	PC Card slot	Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card.
8	PC Card eject button	Ejects an optional PC Card from the PC Card slot.

*The computer has only one expansion port. The term *expansion port 2* describes the type of expansion port.

The external components on the left side of the Compaq Presario M2300 computer are shown below and described in Table 1-6.



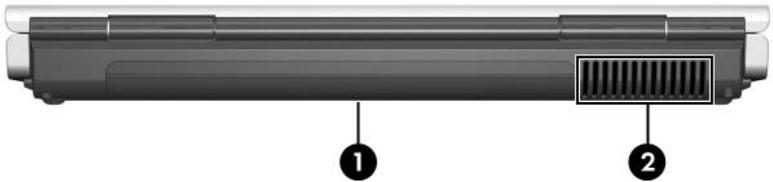
Left-Side Components, Compaq Presario M2300

Table 1-6
Left-Side Components
Compaq Presario M2300

Item	Component	Function
1	Power connector	Connects an AC adapter cable.
2	Monitor port	Connects an optional VGA monitor or projector.
3	Expansion port 2* (select models only)	Connects the computer to an optional docking device.
4	RJ-45 (network) jack	Connects an optional network cable.
5	RJ-11 (modem) jack	Connects the modem cable.
6	USB port	Connects an optional USB device.
7	PC Card slot	Supports an optional Type I or Type II 32-bit (CardBus) or 16-bit PC Card.
8	PC Card eject button	Ejects an optional PC Card from the PC Card slot.

*The computer has only one expansion port. The term *expansion port 2* describes the type of expansion port.

The external components on the rear panel of the HP Pavilion ze2300 computer are shown below and described in Table 1-7.



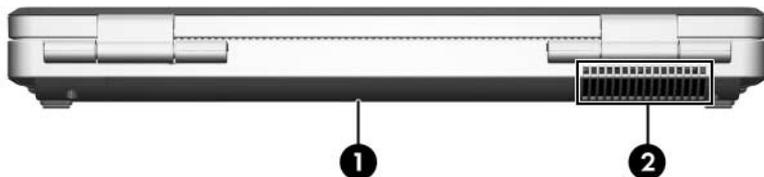
Rear Panel Components, HP Pavilion ze2300

Table 1-7
Rear Panel Components
HP Pavilion ze2300

Item	Component	Function
1	Battery bay	Holds a battery pack.
2	Exhaust vent	Provides airflow to cool internal components.

 To prevent overheating, do not obstruct vents. Do not allow a hard surface, such as a printer, or a soft surface, such as pillows, thick rugs, or clothing, to block airflow.

The external components on the rear panel of the Compaq Presario M2300 computer are shown below and described in Table 1-8.



Rear Panel Components, Compaq Presario M2300

Table 1-8

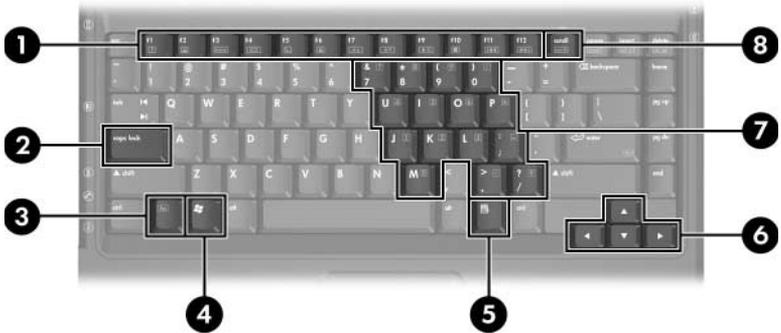
Rear Panel Components

Compaq Presario M2300

Item	Component	Function
1	Battery bay	Holds a battery pack.
2	Exhaust vent	Provides airflow to cool internal components.

△ To prevent overheating, do not obstruct vents. Do not allow a hard surface, such as a printer, or a soft surface, such as pillows, thick rugs, or clothing, to block airflow.

The computer keyboard components on the HP Pavilion ze2300 computer are shown below and described in Table 1-9.

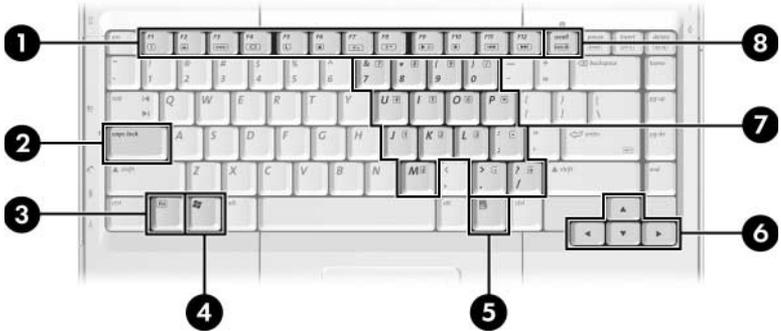


Keyboard Components, HP Pavilion ze2300

Table 1-9
Keyboard Components
HP Pavilion ze2300

Item	Component	Function
1	Function keys (12)	Perform system and application tasks. When combined with the fn key, several 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. For example, pressing fn+f7 decreases screen brightness.
4	Windows logo key	Displays the Windows Start menu.
5	Windows applications key	Displays a shortcut menu for items beneath the pointer.
6	Arrow keys	Moves the cursor around the screen.
7	Keypad keys (15)	Can be used like the keys on an external numeric keypad.
8	num lock key	On: Enables numeric lock, turns on the embedded numeric keypad, and turns on the num lock light.

The computer keyboard components on the Compaq Presario M2300 computer are shown below and described in Table 1-10.



Keyboard Components, Compaq Presario M2300

Table 1-10
Keyboard Components
Compaq Presario M2300

Item	Component	Function
1	Function keys (12)	Perform system and application tasks. When combined with the Fn key, the 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. For example, pressing Fn+F7 decreases screen brightness.
4	Windows logo key	Displays the 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	Keypad keys (15)	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.

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The computer top components on the HP Pavilion ze2300 are shown below and described in Table 1-11.



Top Components, HP Pavilion ze2300

Table 1-11

**Top Components
 HP Pavilion ze2300**

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.
3	Caps lock light	On: Caps lock is on.
4	Display switch	If the computer is closed while on, initiates standby.

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