Getting Started

HP Compaq Notebook Series

Document Part Number: 310028-002

November 2003

This guide explains how to set up your hardware and software, find and install the latest versions of HP software, and find additional information and support. This guide also introduces you to exterior features of the notebook.

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1

Hardware and Software Setup

WARNING: This notebook is designed to run demanding applications at full power. As a result of increased power consumption, it is normal for the notebook to feel warm or hot when used continuously. To avoid potential discomfort or burns, do not block the air vents or use the notebook on your lap for extended periods. The notebook complies with the user-accessible surface temperature limits defined by the international Standard for Safety of Information Technology Equipment (IEC 60950).

Because of limitations in current TFT manufacturing technology, TFT displays might show imperfections as bright, dim, or dark spots. HP does not guarantee that TFT displays (available on selected models only) are free from such imperfections.

For governmental agency and safety information, refer to the *Regulatory and Safety Notices* guide on the *Documentation Library* CD.

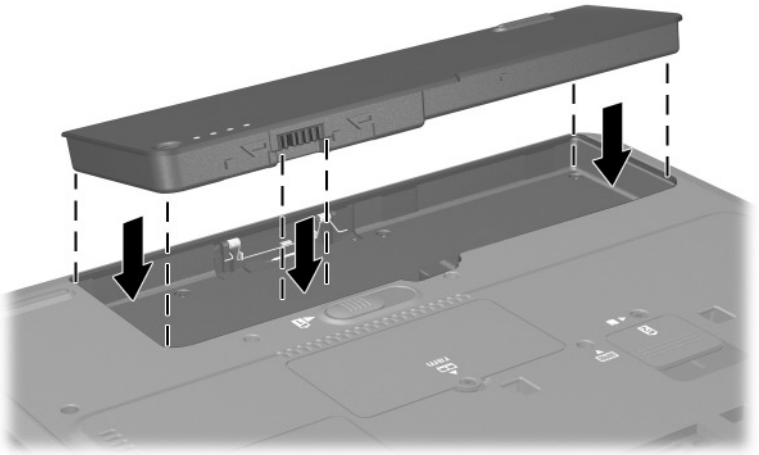
Setting Up the Hardware

CAUTION: To ensure that the correct drivers load and to prevent file corruption or damage to the components during initial setup:

- Do not set up the notebook while it is docked in an optional Port Replicator.
- Do not remove the battery pack until the notebook has been connected to external AC power.
- Run the notebook on external AC power, not on battery power, throughout initial setup.

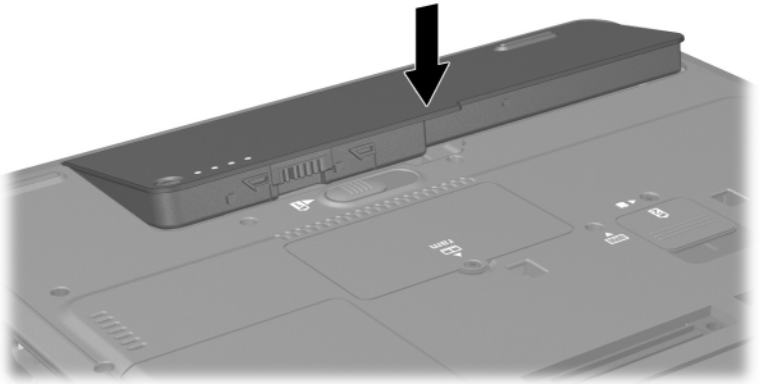
To set up the notebook hardware:

1. Insert the battery pack:
   a. Turn the notebook upside-down.
   b. Align the battery pack with the notebook battery bay.
   c. Insert the battery pack tabs into the battery bay recesses.



Inserting the battery pack tabs into the battery bay recesses

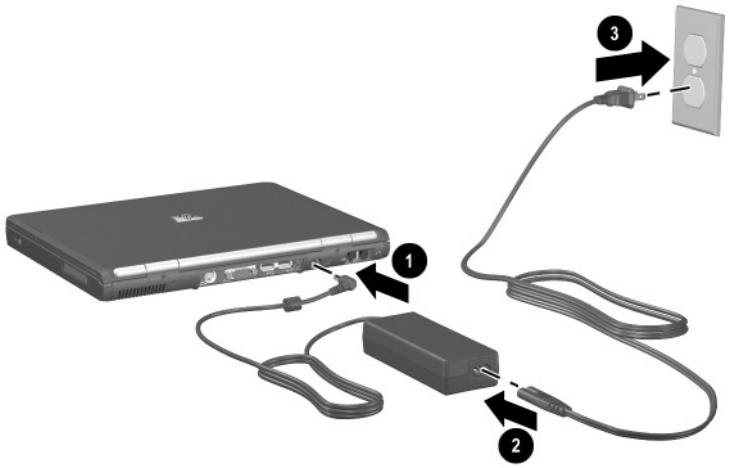
d. Snap the battery pack into place.



Inserting the battery pack

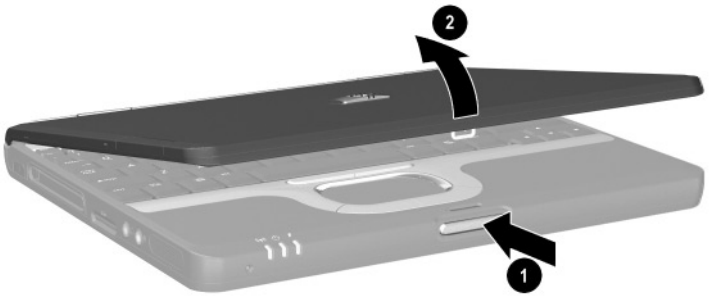
If the notebook will be idle for 2 weeks or more, removing the battery and storing it will prolong its life. For more information, refer to the "Battery Packs" chapter in the *Hardware Guide* on the *Documentation Library* CD.

2. Connect the notebook to external AC power:
   a. Place the notebook on a flat surface near an electrical outlet.
   b. Plug the AC adapter cable ❶ into the power connector on the notebook.
   c. Plug the power cord ❷ into the AC adapter.
   d. Plug the power cord ❸ into an electrical outlet. (Power cords and outlets vary by country.)



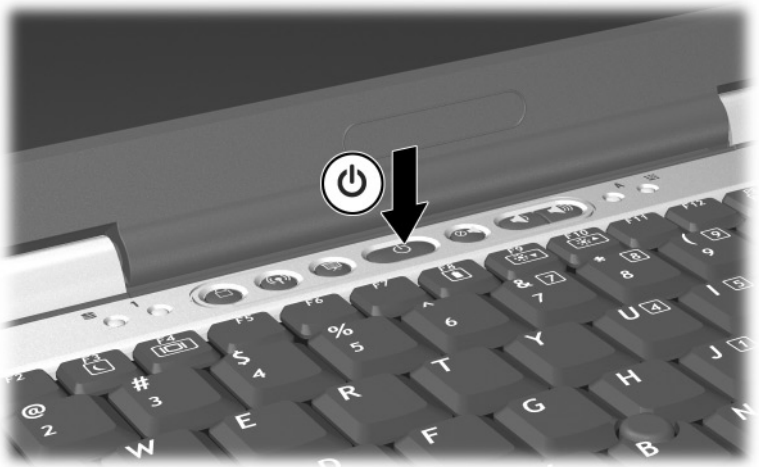
Connecting the notebook to AC power

3. Open the notebook by pressing the display release latch ❶ and lifting the display ❷.



Opening the notebook

4. Turn on the notebook by pressing the power button.



Turning on the notebook

- ❏ The power/Standby light turns on. (See "Lights" later in this guide for more information.)
- ❏ The battery pack in the battery bay begins to charge, and the battery light turns on. (See "Lights" later in this guide for more information.)

  ✎ The battery light remains on while the battery pack is charging and turns off after the battery pack is fully charged.

- ❏ The software setup prompt is displayed on the screen.

Setting Up the Software

CAUTION: To prevent file corruption and ensure that the correct device drivers are installed, follow these guidelines during software setup:

- Do not unplug the notebook from the electrical outlet.
- Do not shut down the notebook.
- Do not remove or insert a drive.

A prompt asking you to set up your software is displayed on the screen when the notebook is turned on for the first time. Before responding to the prompt and proceeding through the online instructions, read the caution above and other installation information contained in this chapter.

- After you begin the software setup, you must complete the entire process without interruption. Setup time varies.
- If you are prompted to select a language, choose carefully. The languages you do not choose are deleted from the system and cannot be restored after the setup process has begun.
- If you are prompted to accept the End User License Agreement, you must choose Accept to continue the software setup.
- *Preloaded* software applications are included with the notebook but must be installed through the Software Setup utility. *Preinstalled* software applications have already been installed on the notebook and require no further installation procedures.

- This guide does not take into account any variation that might result from the notebook being connected to a network.
- This guide includes instructions based on the Microsoft® Windows® XP and Windows 2000 operating systems. Any other operating systems installed on this notebook after purchase might not match the descriptions and procedures provided in this guide.

For Windows XP, this guide includes instructions based on the category view that is used by default in Windows XP. If Windows XP is set to classic view on your notebook, you might notice discrepancies between your notebook and this documentation. For information on switching views, see Windows XP Help and Support.

Installing Optional Software

You can install third-party software or preloaded utilities anytime after initial setup is complete.

- To install third-party software, refer to the documentation included with the software.
- To install a preloaded utility:
  - ❑ **In Windows 2000,** select Start > Programs > Software Setup.
  - ❑ **In Windows XP,** select Start > All Programs > Software Setup.

  A setup wizard loads, and a list of applications is displayed. Select the application you want to install, and follow the instructions on the screen.

To view the descriptions and space requirements of preloaded HP utilities without installing them:

- **In Windows 2000,** select Start > Programs > Software Setup.
- **In Windows XP,** select Start > All Programs > Software Setup.

After viewing the utility information, select Cancel.

Selecting Regional Settings

Keyboard language and other regional preferences, such as time, date, and currency format, are set in the operating system. To access these settings:

- **In Windows 2000:**
  - ❏ Select Start > Settings > Control Panel > Date/Time.

  -or-

  - ❏ Select Start > Settings > Control Panel > Regional Options.
- **In Windows XP:**
  - ❏ Select Start > Control Panel > Date, Time, Language, and Regional Options > Date and Time.

  -or-

  - ❏ Select Start > Control Panel > Date, Time, Language, and Regional Options > Regional and Language Options.

For information about selecting regional settings, open the Regional Options window, then use context-sensitive Help. To use context-sensitive Help, select the question mark button in the upper-right corner of the window, and then select an item. A definition, explanation, or procedure is displayed.

Selecting Screen Settings

If you would like to see more items on your screen or to see the items on your screen displayed larger, change the screen resolution setting in your operating system. To access the screen resolution settings:

- **In Windows 2000,** select Start > Settings > Control Panel > Display > Settings tab.
- **In Windows XP,** select Start > Control Panel > Appearance and Themes > Display > Settings tab.

Checking System Memory and Video Memory Size

You can view information about the overall system memory and video memory size for your notebook by following the directions in the following sections.

Viewing System Memory

To access information about system memory, press **Fn+esc** or access system information in Computer Setup:

1. Open Computer Setup by turning on or restarting the notebook. Press **F10** while the F10 = ROM Based Setup message is displayed in the lower left corner of the screen.
   - ❏ To change the language, press **F2.**
   - ❏ To view navigation information, press **F1.**
   - ❏ To return to the Computer Setup menu, press **esc.**
2. Select File > System Information.
3. To exit Computer Setup, choose one of the following:
   - ❏ To exit without saving any changes, select File > Ignore Changes and Exit, then follow the instructions on the screen.
   - ❏ To exit and save all the settings you have entered, select File > Save Changes and Exit, then follow the instructions on the screen.

   For more information on using Computer Setup, refer to the "Computer Setup" chapter in the *Software Guide* on the *Documentation Library* CD.

Viewing Video Memory

To view information about video memory size:

- **In Windows 2000,** select Start > Settings > Control Panel > Display > Settings > Advanced > Adapter.
- **In Windows XP,** select Start > Control Panel > Display > Settings > Advanced > Adapter.

Setting Power Options

By the default, your notebook power options are set as follows:

- To turn on the notebook (from Hibernation, Standby, or Shutdown), press the power button.
- To shut down the notebook, press the power button and follow the on-screen instructions, or shut down the notebook through the operating system:
  - **In Windows 2000,** select Start > Shut Down > Shut Down, and select OK.
  - **In Windows XP,** select Start > Turn Off Computer > Turn Off.
- To initiate Hibernation:
  - **In Windows 2000,** select Start > Shut Down > Hibernate, then select OK.
  - **In Windows XP,** select Start > Turn Off Computer > Hibernate.
- To resume from Hibernation, press the power button.

- To initiate Standby, press **Fn+F3** or:
  - **In Windows 2000,** select Start > Shut Down > Standby, then select OK.
  - **In Windows XP,** select Start > Turn Off Computer > Standby.
- To resume from Standby, press the power button.
- To turn off the display, close the notebook.

  ✎ Closing the notebook activates the display switch. The display switch turns off the display and can be set to put the computer into Hibernation or Standby.

You can configure the power option settings for your notebook in the Power Options window:

- **In Windows 2000,** select Start > Settings > Control Panel > Power Options > Advanced.
- **In Windows XP,** select Start > Control Panel > Performance and Maintenance > Power Options > Advanced.

For additional information about notebook power options and default settings, refer to the "Power" chapter in the *Software Guide* on the *Documentation Library* CD.

Setting Up Wireless LAN

If your notebook contains a wireless LAN (WLAN) device, the drivers for it have been preinstalled on the notebook. A WLAN configuration utility has been preloaded by HP to support your WLAN device.

Using a Wireless LAN Utility in Windows 2000

Windows 2000 does not provide an automatic wireless network configuration utility through the operating system. The WLAN utility provided by HP on your notebook must be used for wireless connections.

Using a Wireless LAN Utility in Windows XP

Windows XP provides an automatic wireless network configuration utility through the operating system. This utility is enabled by default. However, if your notebook is equipped with a WLAN device installed by HP, you may prefer to use the utility designed to work with it instead of using the Windows XP utility.

For more information about using this Windows XP utility, refer to Windows Help and Support.

For more information about the advantages of using the utility provided by HP, refer to the following section.

Advantages of the HP WLAN Utility

The HP WLAN utility has advanced capabilities that enhance the use of your wireless device. This utility works in an integrated fashion with your WLAN device to configure and to manage your wireless network. It is also compatible with Cisco standards and legacy operating systems. This utility is required for use of the WLAN device with Windows 2000 and for support of Cisco Client Extensions in Windows 2000 and Windows XP.

Disabling the Windows XP Automatic Wireless Network Configuration Utility

By default, the Windows XP automatic wireless network configuration utility will attempt to configure your wireless connection. If you do not wish to use the Windows XP utility, you must disable it as follows:

1. Select Start > Control Panel > Network and Internet Connections > Network Connections.
2. Right-click Wireless Network Connection, then select Properties.
3. On the Wireless Networks tab, clear the Use Windows to configure my wireless network settings check box.
4. Select OK.

The Windows XP automatic wireless network configuration utility is disabled until you enable it again.

For more information about this Windows XP utility, refer to Windows Help and Support.

After disabling the Windows XP utility, install the WLAN utility provided by HP for your wireless device.

Installing the HP WLAN Utility

Install the WLAN utility provided by HP using the following steps:

1. Open the WLAN Utility Installer in Software Setup:
   - ❑ **In Windows 2000,** select Start > Programs > Software Setup > WLAN Utility Installer.
   - ❑ **In Windows XP,** select Start > All Programs > Software Setup > WLAN Utility Installer.
2. Select OK, and follow the on-screen instructions to complete the installation process.

Locating User Documentation

If your notebook is equipped with a WLAN device, additional documentation for configuring and using the WLAN device provided by HP has been included with your notebook. Because the notebook might be equipped with one of several WLAN devices, you must first determine which WLAN device is installed on the notebook, and then locate the appropriate user documentation for that device.

To identify your WLAN device in the Network Adapters list:

- **In Windows 2000,** select Start > Settings > Control Panel > System icon > Hardware tab > Device Manager > Network Adapters.
- **In Windows XP,** select Start > My Computer. Right-click the window and select Properties > Hardware tab > Device Manager > Network Adapters.

The WLAN device installed on the notebook appears in the list.

To locate the appropriate user documentation:

- **Intel® PRO/Wireless LAN 2100 3B Mini PCI Adapter**—Open the wireless utility after it has been installed and select Help on the menu bar.
- **WLAN 802.11a/b/g W500**—Refer to the *Documentation Library Wireless LAN* CD.
- **WLAN 802.11b/g W400**—Refer to the *Documentation Library Wireless LAN* CD.

The user documentation is not available in all languages.

Setting Up Bluetooth

If your notebook contains a preinstalled Bluetooth® device, the utility that operates the device has been preloaded but not preinstalled on the notebook. Before you can use this utility, you must install it using the following steps:

- **In Windows 2000,** select Start > Programs > Software Setup, select the Bluetooth utility from the list of applications, then follow the on-screen instructions.
- **In Windows XP,** select Start > All Programs > Software Setup, select the Bluetooth utility from the list of applications, then follow the on-screen instructions.

For more information on configuring and using the Bluetooth device, refer to the *Documentation Library Bluetooth* CD.

Safeguarding the Notebook

Using Security Software

When you use your computer to access a network or the Internet, you expose the computer to viruses, worms, and hackers. These security and privacy intrusions may disable the computer operating system, software applications, and personal files. Using a combination of software and hardware security measures may help prevent, detect, and repair these occurrences.

HP recommends that you follow these software security measures to improve your computer security.

Step	Use this Security Measure	For More Information
1.	Install antivirus software before connecting to the Internet or a network. (Some models include antivirus software.)	Microsoft: http://www.microsoft.com/security/antivirus
	Keep the virus definition files up to date to maintain protection against newly discovered viruses.	Symantec: http://securityresponse.symantec.com Refer to the online Help File within the antivirus software.
2.	Use the default or higher security settings in Microsoft Internet Explorer.	From the Internet Explorer menu bar, select Tools > Internet Options > Security.
3.	Install Microsoft Windows updates by downloading the updates as they become available.	http://windowsupdate.microsoft.com
4.	Install the Microsoft Internet Connection Firewall or an equivalent firewall.	Refer to the Help and Support Center. Select Start > Help & Support. Enter “Firewall” in the Search field and press **enter.**

Using a firewall can block access to Internet games, or to printer and file sharing within a network. If this occurs, you can disable the firewall or contact your firewall provider for configuration information. Disabling your firewall will reduce your level of protection.

Preventing Power Surges

To protect the notebook from power surges caused by an uncertain power supply or electrical storm:

- Plug the notebook power cord into an optional, high-quality surge protector. Surge protectors are available from most computer or electronics retailers.
- Provide surge protection on the cable that connects a modem to the telephone line.
- Run the notebook on battery power or shut down the notebook and disconnect the power cord.

Preventing Shutdown Problems

Whenever possible, shut down the notebook by following the appropriate Windows shutdown procedure:

- **In Windows 2000,** select Start > Shut Down > Shut Down, then select the OK button.
- **In Windows XP,** select Start > Turn off computer > Turn off.

Regulatory and Safety Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. For more information, refer to the *Regulatory and Safety Notices* on the *Documentation Library* CD.

This product is in compliance with relevant European Union Directives and associated standards. For more information refer to the European Union Notice contained in the *Regulatory and Safety Notices* guide on the *Documentation Library* CD.

WARNING: To reduce the risk of electric shock or damage to your equipment:

- Plug the power cord into an electrical outlet that is easily accessible at all times.
- Disconnect power from the product by unplugging the power cord from the electrical outlet.
- If provided with a three-pin attachment plug on your power cable, plug the cable into a grounded (earthed) three-pin outlet. Do not disable the power cord grounding pin. The grounding pin is an important safety feature.

WARNING: To reduce the risk of personal injury, turn down the volume control before putting on headphones.

WARNING: To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation setup, posture, and health and work habits for computer users, and provides important electrical and mechanical safety information. This guide is located on the Web at http://www.hp.com/ergo, on the hard drive, and on the *Documentation Library* CD that is included with the product.

2

Additional Information, Help and Updates

Using the Documentation Library CD

Included with the notebook is the *Documentation Library* CD, which contains detailed information and instructions for using your notebook. Documents on the *Documentation Library* CD include:

- *Hardware Guide*—Contains information specific to your notebook. It includes an illustrated reference to all exterior components, and steps for replacing battery packs, using keyboard features and drives, connecting external equipment, and upgrading the notebook.
- *Software Guide*—Describes HP software, including details about power and security features.
- *Modem and Networking* guide—Provides details about modem connections and equipment.
- *Modem Command Guidelines*—Contains modem commands and programming information.
- *Agere Softmodem AT Command Set*—Provides manufacturer's modem commands (for advanced users only).
- *Broadcom NetXtreme Ethernet Networking User Guide* (for advanced users only).
- *Maintenance, Shipping and Travel* guide—Describes steps for notebook maintenance and gives guidelines for using the notebook internationally.

- *Troubleshooting* guide—Includes solutions for common problems encountered by users.
- *Regulatory and Safety Notices*—Includes governmental agency and safety information.
- *Safety & Comfort Guide*—Describes the best way to set up a safe and comfortable work environment, including ergonomic and safety information.

This product is designed for accessibility. It has been tested with industry-leading assistive technology products to ensure equal access to anyone, anytime, anywhere.

To view a guide:

1. Insert the *Documentation Library* CD into a CD-ROM drive. If Autorun is enabled, the reference library menu displays on the screen (this could take a few seconds).
2. Select the language of your choice, and then select the guide you want to read from the reference library menu.
3. If prompted, accept the Adobe® Acrobat® Reader license agreement and install Acrobat Reader by following the instructions on the screen.

Getting Help

If you cannot solve a notebook problem using this guide or the supplementary information on the *Documentation Library* CD (including the *Troubleshooting* guide), you might need to contact HP. See "Contacting Technical Support" in this chapter.

Using the Help and Support Center in Windows XP

Notebooks with a Windows XP operating system have a customized Help and Support Center that provides a comprehensive online resource tool that can be used for the following:

- Troubleshooting assistance
- Downloading the latest driver updates and product information
- Learning more about using and maintaining your notebook

With the Help and Support Center, you can get immediate assistance before contacting a support specialist. For example, in Help and Support you can:

- Troubleshoot and fix common notebook problems.
- Learn how to use the software tools for working with your favorite music, video, games, and photos (on select notebook models only).
- Get basic and detailed information about Windows XP for customizing your notebook.
- Set up your notebook for networking and for communicating on the Web.
- Use administration tools to manage areas such as passwords, file backups, system restore, and user accounts.
- Learn how to print and fax, run performance and maintenance tools, and install and configure new hardware.
- Protect your notebook files by using security and privacy features such as antivirus software.
- Undo changes to your notebook with System Restore.
- Improve the performance of your hard drive and battery pack.

- Download the latest drivers, utilities, software updates, and product documentation for your notebook.
- View notebook information and diagnose problems.
- Keep your notebook up to date using Windows Update.
- Find compatible hardware and software.

To access the online Help and Support Center:

1. Select Start > Help and Support.
2. Follow the on-screen directions to select the online Help and Support Center feature that you need.

Contacting Technical Support

If you cannot solve a problem using the online Help or the documentation provided with your notebook, you can call technical support.

To obtain a list of worldwide customer support telephone numbers, use any of the following methods:

- **In Windows 2000,** select Start > Settings > Control Panel > System > Support Information.
- **In Windows XP,** select Start > Control Panel > Performance and Maintenance > System.
- Refer to the *Worldwide Telephone Numbers* booklet included with the notebook to contact an HP Customer Care Center, or visit the HP Web site at http://www.hp.com/support.

To provide the fastest possible resolution of your problem, have the notebook and the following information available when you call:

- Notebook serial number and model description, which are provided on labels affixed to the bottom of the notebook.
- Purchase date on your invoice.
- Conditions under which the problem occurred.
- Error messages that have displayed.

- Manufacturer and model of any optional external printer connected.
- Operating system version number and registration number. View these numbers in the System Properties window of your operating system.
- The version of the system ROM installed on the notebook. To view system ROM information, press **Fn+esc.**

Installing a Retail Version of an Operating System

CAUTION: Replacing an operating system enhanced by HP with a retail version of an operating system will result in the loss of all enhancements. In some cases, the loss of these enhancements might result in an unresponsive system. In other cases, complete USB support might not be available. To download the appropriate drivers for your notebook, visit http://www.hp.com/support.

The Windows operating system provided on the notebook is enhanced by HP. These enhancements add features and provide supplementary support for devices such as drives and PC Cards.

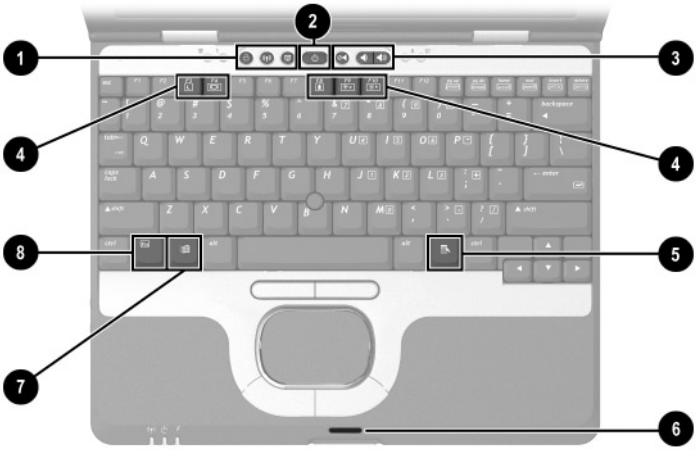
3

Notebook Features

Pointing Device Components

Component		Description
❶	Pointing stick	Moves the pointer and selects or activates items on the screen.
❷	Left and right pointing stick buttons	Function like the left and right buttons on an external mouse.
❸	TouchPad	Moves the pointer and selects or activates items on the screen. Can be set to perform other mouse functions, such as scrolling and double-clicking.
❹	Left and right TouchPad buttons	Function like the left and right buttons on an external mouse.

Top Components



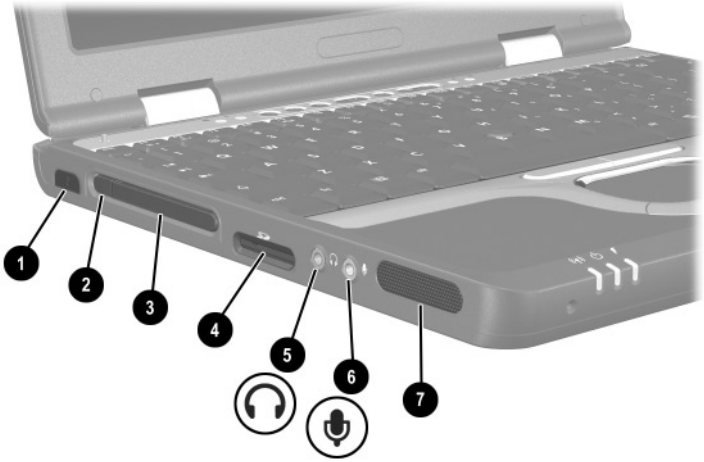
Component		Description
❶	Quick Launch buttons (3)	Enable you to access common functions with a single keystroke.
❷	Power button	When the notebook is* ■ Off, press and release to turn on the notebook. ■ In Standby, press and release to exit Standby. ■ In Hibernation, press and release to exit Hibernation. If the system has stopped responding and Microsoft Windows shutdown procedures cannot be used, press and hold for 5 seconds to turn off the notebook.

*This table describes default settings. For information about changing the functions of the power button and about using Standby and Hibernation, refer to the “Power” chapter in the *Software Guide* on the *Documentation Library* CD.

(continued)

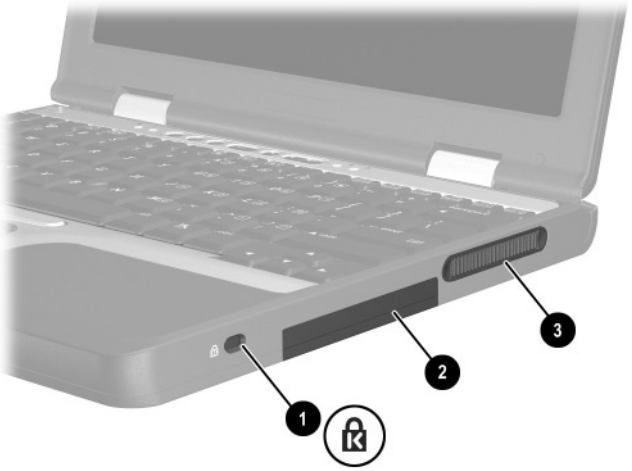
Component		Description
❸	Volume control buttons	Increase, decrease, and mute the system volume.
❹	Function keys	Execute frequently used system functions when pressed in combination with the **Fn** key.
❺	Applications key	Displays shortcut menu for items beneath the pointer.
❻	Display release latch recess	Secures the display when it is closed.
❼	Windows logo key	Displays the Windows Start menu.
❽	**Fn** key	Executes frequently used system functions when pressed in combination with another key.
Primary memory compartment (not shown, located under the keyboard)		Contains the primary memory slot.

Left-Side Components



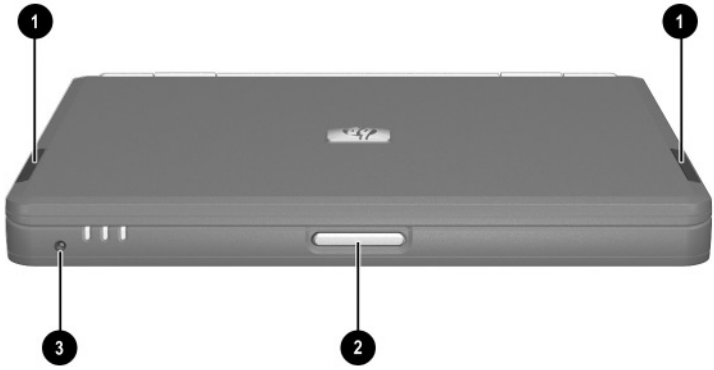
Component		Description
❶	Infrared port	Links another IrDA-compliant device for wireless communication.
❷	PC Card eject button	Ejects an optional PC Card from the PC Card slot.
❸	PC Card slot	Supports optional Type I or Type II 32-bit (CardBus) or 16-bit PC Cards.
❹	Secure Digital (SD) card slot	Accepts SD Memory Cards used as removable storage devices.
❺	Audio line-out jack	Connects optional powered stereo speakers, headphones, headset, or television audio.
❻	Microphone input jack	Connects an optional stereo microphone.
❼	Speaker	Produces system sound.

Right-Side Components



Component		Description
❶	Security cable slot	Attaches an optional security cable to the notebook. ✎ The purpose of security solutions is to act as a deterrent. These solutions do not prevent the product from being mishandled or stolen.
❷	Hard drive bay	Holds the primary hard drive.
❸	Exhaust vent	Enables airflow to cool internal components. △ To prevent overheating, do not obstruct vents. Using the notebook on a soft surface such as a pillow, blanket, rug, or thick clothing can block airflow.

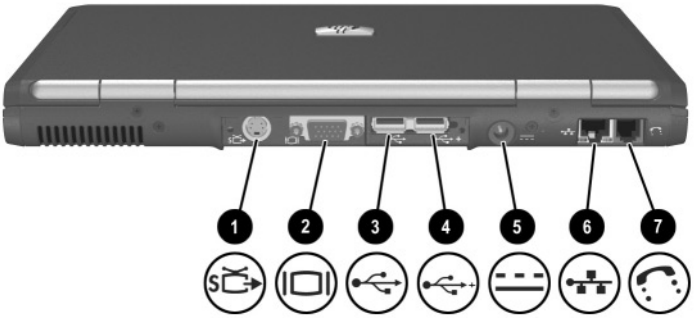
Front Components



Component		Description
❶	Antennae (2)	Send and receive wireless LAN (WLAN) signals. △ The antennae covers are not removable. Removing the covers can cause damage to the antennae.
❷	Display release latch	Opens the notebook.
❸	Microphone	Inputs single-channel sound.

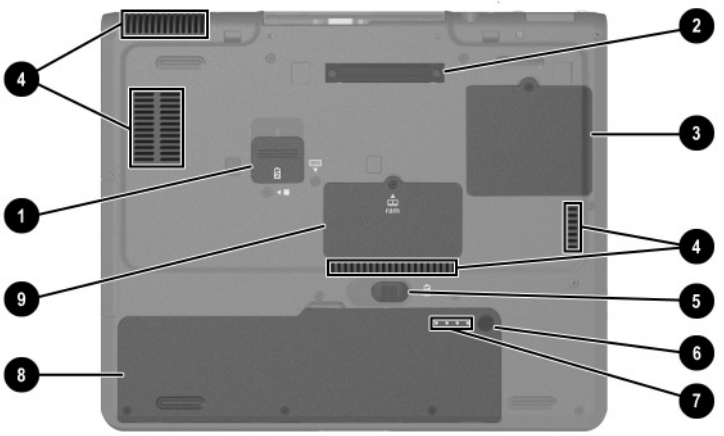
⚠ **Exposure to Radio Frequency Radiation**
The radiated output power of this device is below the FCC radio frequency exposure limits. Nevertheless, the device should be used in such a manner that the potential for human contact during normal operation is minimized. To avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antennae should not be less than 20 cm (8 inches) during normal operation, including when the notebook display is closed.

Rear Components



Component		Description
❶	S-Video-out jack	Connects an optional S-Video device, such as a television, VCR, camcorder, overhead projector, or video capture card.
❷	External monitor connector	Connects an optional external monitor or overhead projector.
❸	USB connector	Connects USB 1.1- and 2.0-compliant devices to the notebook using a standard USB cable.
❹	Self-powered USB connector	Connects USB 1.1- and 2.0-compliant devices to the notebook using a standard USB cable, or an optional External MultiBay to the notebook using the External MultiBay powered USB cable.
❺	AC power connector	Connects an AC adapter or an optional Automobile Power Adapter/Charger or Aircraft Power Adapter.
❻	RJ-45 network jack	Connects a network cable.
❼	RJ-11 telephone jack	Connects a modem cable.

Bottom Components

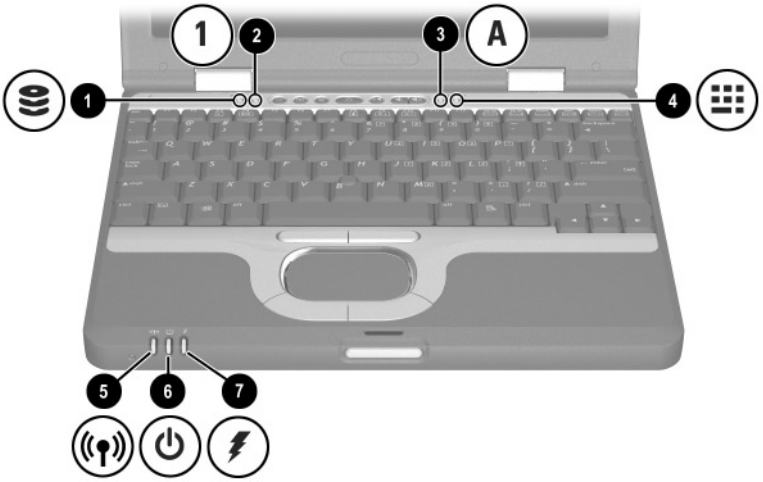


Component		Description
❶	Travel battery connector	Connects the optional travel battery caddy. The travel battery connector has a plastic cover that must be opened before the travel battery caddy can be connected.
❷	Docking connector	Connects the notebook to an optional HP Port Replicator or an HP Advanced Port Replicator.

(continued)

Component		Description
❸	Mini PCI compartment	Contains the Mini PCI wireless card. △ The FCC does not allow unauthorized Mini PCI devices to be used in this notebook. Installing an unauthorized Mini PCI device can prevent your notebook from operating properly and might result in a warning message. To resume proper notebook operation, remove the unauthorized device. Contact your HP Customer Care Center if a warning message about your Mini PCI device displays in error.
❹	Intake vents	Enable airflow to cool internal components. △ To prevent overheating, do not obstruct vents. Using the notebook on a soft surface such as a pillow, blanket, rug, or thick clothing can block airflow.
❺	Battery release latch	Releases the primary battery pack from the battery bay.
❻	Quick Check button	Displays the percentage of a full charge remaining on a battery pack, using the Quick Check lights.
❼	Battery power gauge	Indicates the charge remaining on a battery pack.
❽	Battery bay	Holds the primary battery pack.
❾	Memory expansion compartment	Contains one memory expansion slot for optional memory expansion boards.

Lights



Component		Description
❶	Hard drive activity	On: The hard drive is being accessed.
❷	Num lock	On: Num lock is on or the embedded numeric keypad is enabled.
❸	Caps lock	On: Caps lock is on.
❹	Scroll lock	On: Scroll lock is on.

(continued)

Component		Description
❺	Wireless on/off	On: The wireless Mini PCI card and/or Bluetooth® are on. Off: The wireless Mini PCI card and Bluetooth are off.
❻	Power/Standby	On: Power is turned on. Blinking: Notebook is in Standby.
❼	Battery	On: A battery pack is charging. Blinking: A battery pack that is the only available power source has reached a low-battery condition. When the battery reaches a critical low-battery condition, the battery light begins blinking more quickly.

Labels

The labels affixed to the bottom of the notebook and to the inside of the battery compartment provide information you might need when you troubleshoot system problems or travel abroad with the notebook.

- The Service Tag label affixed to the bottom of the notebook contains the product name, product number (P/N), and serial number (S/N). You will need the notebook serial number and product number if you call customer support.
- The Microsoft Certificate of Authenticity label affixed to the bottom of the notebook contains the Product Key number. You might need this number to update or troubleshoot problems with the operating system.
- The System label affixed to the bottom of the notebook provides regulatory information about the notebook.
- The Modem Approval label affixed to the bottom of the notebook provides regulatory information and lists the agency markings required by some of the countries in which the modem has been approved for use. You might need to use this modem information in order to operate the modem while traveling internationally.
- The WLAN label affixed to the bottom of the notebook provides regulatory information and lists the agency markings required by some of the countries in which the optional wireless devices have been approved for use. You might need to use this wireless device information in order to operate the wireless device while traveling.
- The Bluetooth label affixed to the bottom of the notebook provides regulatory information and lists the agency markings required by some of the countries in which the optional device has been approved for use. You might need to use this wireless device information in order to operate the wireless device while traveling internationally. Bluetooth is not supported in all countries.

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