
HP Notebook PC

Startup Guide

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Startup Guide

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Important Safety Information

CAUTION

To reduce the risk of fire, use only No. 26 AWG or larger telecommunications line cord to connect a modem to the telephone wall jack. In Australia, the computer must be connected to the Telecommunication Network through a line cord that meets the requirements of ACA Technical Standard TS008.

When using your notebook computer with a telephone connection, always follow basic safety precautions to reduce the risk of fire, electrical shock, and injury to persons:

- Do not use this product with a telephone connection near water (for example, near a bathtub, sink, swimming pool, or in a wet basement).
- Avoid using a telephone connection (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning.
- Do not use a telephone connection to report a gas leak in the vicinity of the leak.
- Use only the power cord and batteries indicated in this guide. Do not dispose of batteries in a fire. They may explode. Check with local codes for possible special disposal instructions.
- Disconnect the modem cable before opening the computer case or touching an uninsulated modem cable, jack, or internal component.
- Do not plug a modem cable or telephone cable into the network (LAN) receptacle.

WARNING

This is a Class B digital device, pursuant to Part 15 of the FCC Rules. For more Class B information, refer to the *Reference Guide on the Documentation Library CD*.

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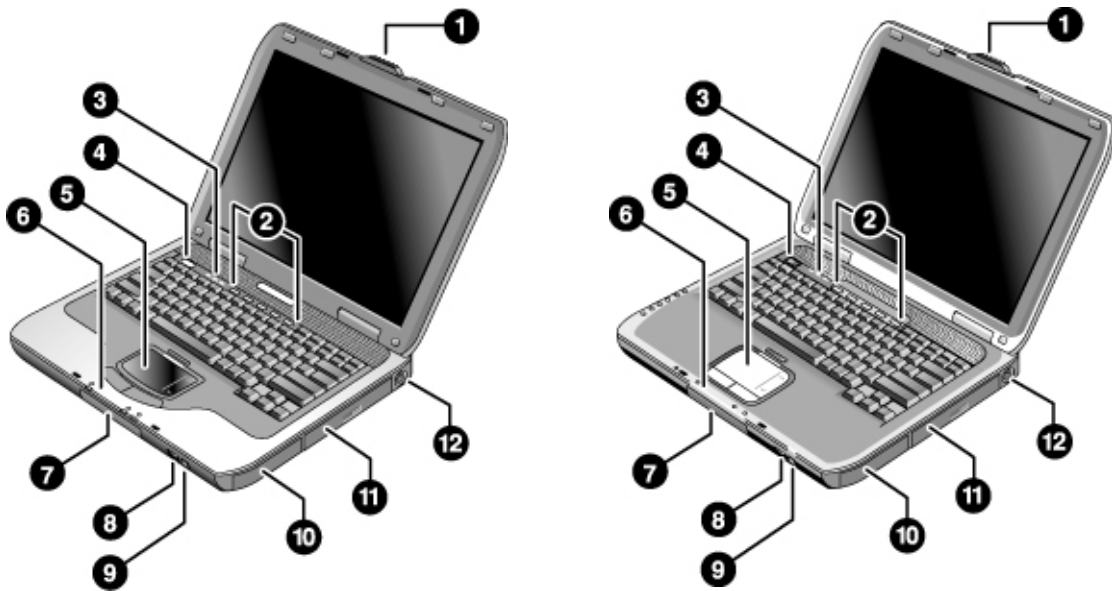
Getting Started with Your Notebook

Identifying Parts of the Notebook

Components included with the notebook vary by geographical region and features selected. The following illustrations identify the standard external components included with most notebook models.

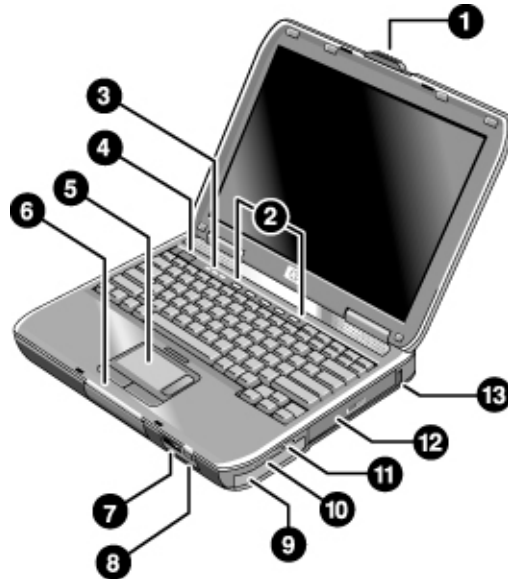
Find the illustrations that match your notebook to identify your components.

Front panel and right panel components



- | | |
|--|---|
| 1 Notebook open/close latch | 7 Hard drive |
| 2 One-Touch buttons | 8 Infrared port (select models only) |
| 3 Keyboard status lights | 9 Wireless on-off button and indicator light (select models only) |
| 4 Power button: turns the notebook on and off | 10 Battery |
| 5 TouchPad, scroll pad, Click buttons, and an on-off button | 11 CD-ROM, DVD, or other drive |
| 6 Main status lights (left to right): power mode, hard drive activity, and battery | 12 PS/2 port |

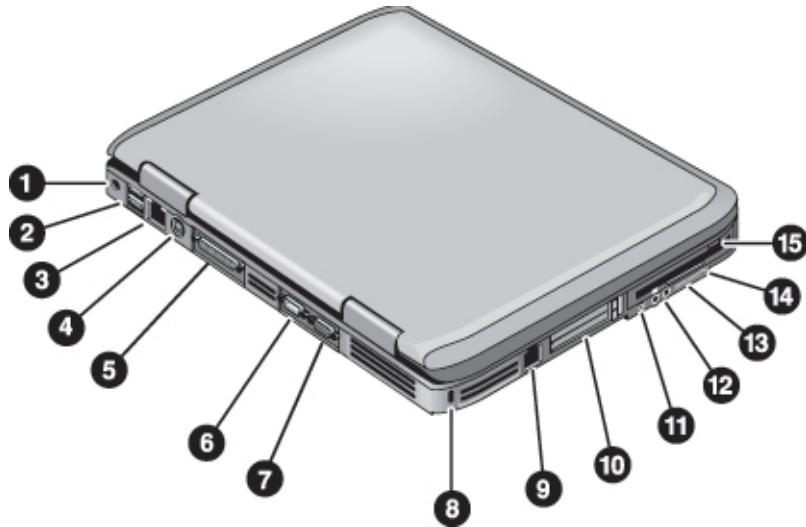
Getting Started with Your Notebook Identifying Parts of the Notebook



- | | | | |
|---|--|----|--|
| 1 | Notebook open/close latch | 8 | Wireless on-off button and indicator light (select models only) |
| 2 | One-Touch buttons | 9 | Battery |
| 3 | Keyboard status lights | 10 | Audio mute button, audio mute light, and volume control |
| 4 | Power button: turns the notebook on and off | 11 | Audio jacks (left to right): audio out (headphones), external microphone |
| 5 | TouchPad, scroll pad, Click buttons, plus on-off button | 12 | CD-ROM, DVD, or other drive |
| 6 | Main status lights (left to right): power mode, hard drive activity, and battery | 13 | Universal serial bus port (USB) |
| 7 | Infrared port (select models only) | | |

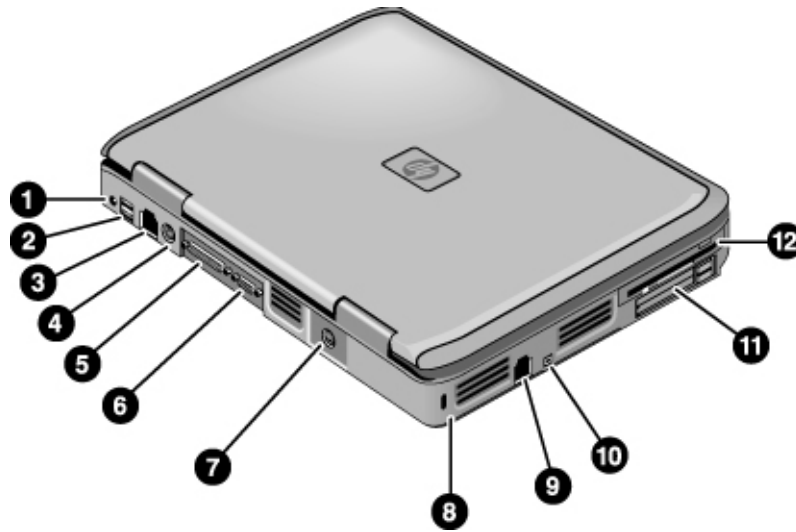
Getting Started with Your Notebook
Identifying Parts of the Notebook

Left panel and back panel components



- | | | | |
|---|--|----|--|
| 1 | AC adapter jack | 8 | Cable lock slot (security connector) |
| 2 | Universal serial bus ports (USB) | 9 | RJ-11 jack: connects the modem cable |
| 3 | RJ-45 jack: connects a network cable | 10 | PC Card and CardBus slot and button |
| 4 | S-Video out jack | 11 | IEEE 1394 port (select models only) |
| 5 | Parallel port (LPT1): use this port for a parallel printer or other parallel device | 12 | Audio jacks (left to right): external microphone, audio out (headphones) |
| 6 | Serial port (COM1): use this port for a serial mouse, modem, printer, or other serial device | 13 | Volume control |
| 7 | External monitor port | 14 | Audio mute button and audio mute light |
| | | 15 | Diskette drive (select models only) |

Getting Started with Your Notebook Identifying Parts of the Notebook

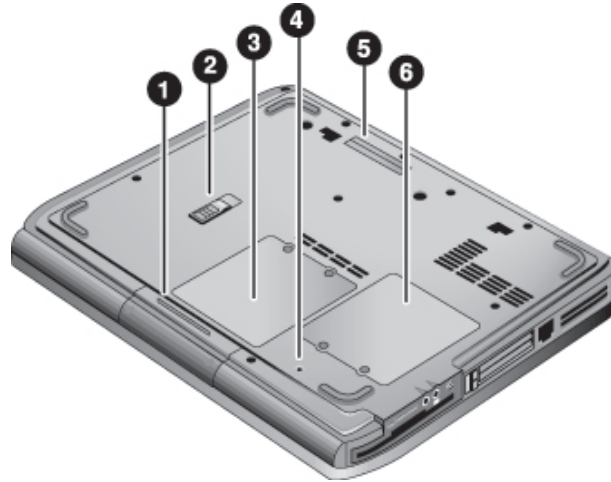


- 1 AC adapter jack
- 2 Two USB ports
- 3 RJ-45 network jack: connects a network cable
- 4 PS/2 port
- 5 Parallel port (LPT1): use this port for a parallel printer or other parallel device

- 6 External monitor port
- 7 S-Video out jack
- 8 Cable lock slot (security connector)
- 9 RJ-11 jack: connects a modem cable
- 10 IEEE 1394 port (select models only)
- 11 PC Card and CardBus slot and buttons
- 12 Diskette drive (select models only)

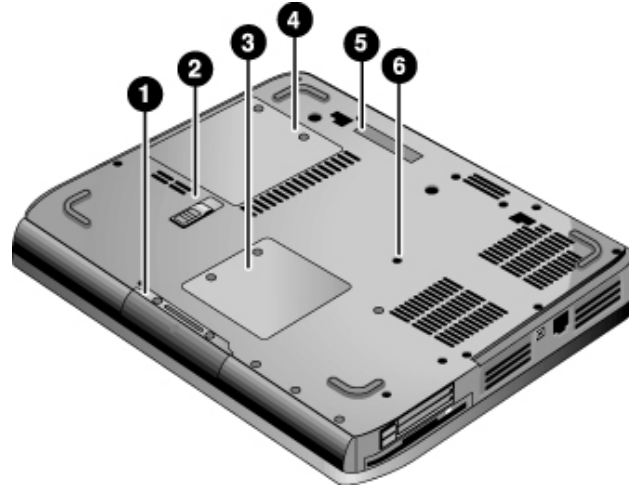
Getting Started with Your Notebook
Identifying Parts of the Notebook

Bottom panel components



- | | | | |
|---|--------------------|---|---------------------------------------|
| 1 | Hard drive | 4 | Reset button |
| 2 | Battery latch | 5 | Docking port (select models only) |
| 3 | RAM (memory) cover | 6 | Mini PCI cover (no user parts inside) |

Getting Started with Your Notebook
Identifying Parts of the Notebook

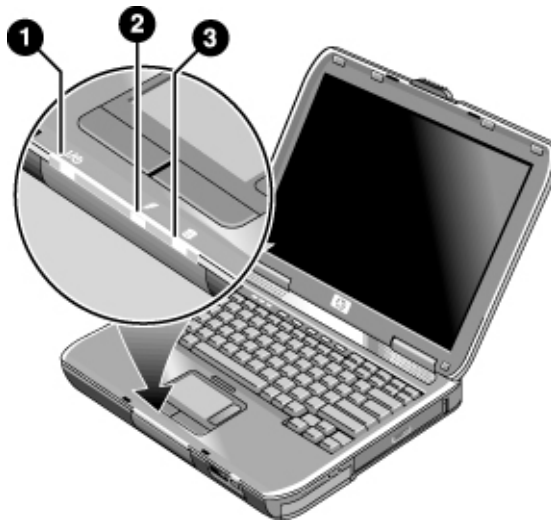


- | | | | |
|---|---------------------------------------|---|-----------------------------------|
| 1 | Hard drive | 4 | RAM (memory) cover |
| 2 | Battery latch | 5 | Docking port (select models only) |
| 3 | Mini PCI cover (no user parts inside) | 6 | Reset button |

Status lights

The notebook includes a number of status lights that report power and battery status, drive activity, and keyboard functions such as Caps Lock and Num Lock.

The following diagram shows the main status lights on the front of the notebook.



1 Power mode

- On—notebook is on (even if the display is off)
- Blinking—notebook is in Standby
- Off—notebook is off or in Hibernation

2 Hard drive activity

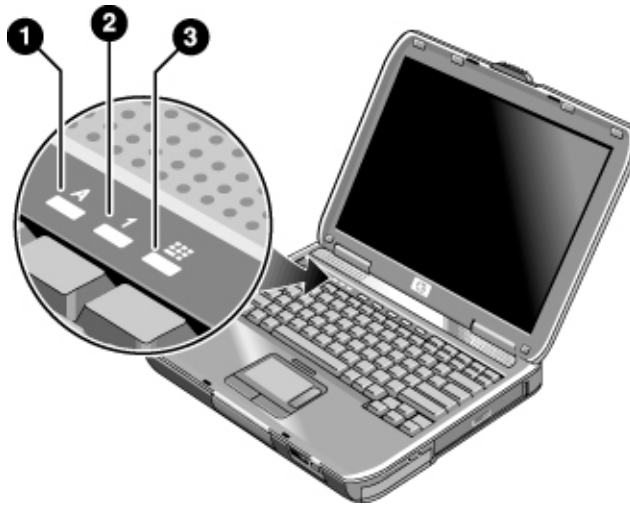
On—notebook is accessing the hard drive

3 Battery status

- Green—AC adapter is connected and the battery is fully charged
- Amber—AC adapter is connected and the battery is charging
- Blinking—AC adapter is connected and the battery is missing or has a fault
- Off—AC adapter is not connected

Getting Started with Your Notebook Identifying Parts of the Notebook

The keyboard status lights, located above the keyboard, indicate the states of the keyboard locks.



- 1 Caps Lock On.** Caps Lock is active.
- 2 Num Lock On.** Num Lock is active. (The Keypad Lock must also be on to use the embedded keypad.)
- 3 Keypad Lock On.** The embedded keypad is active (Fn+F8). Num Lock must also be for the numeric keys. Otherwise, cursor control is active (as marked on an external keyboard).

Setting Up Your Notebook

WARNING

Improper use of keyboards and other input devices has been associated with ergonomic injury.

If you are using your notebook as your primary computer, or using it for extended periods, you should use it with a full-sized keyboard, monitor, and mouse. Docking accessories offer quick, easy connections to these devices. This can reduce the risk of ergonomic injury.

For information about reducing your risk, see the *Safety & Comfort Guide* on the *Documentation Library* CD included with your notebook.

When you set up your notebook for the first time, you will charge the battery, connect the AC adapter, turn on the notebook, and run the Windows setup program.

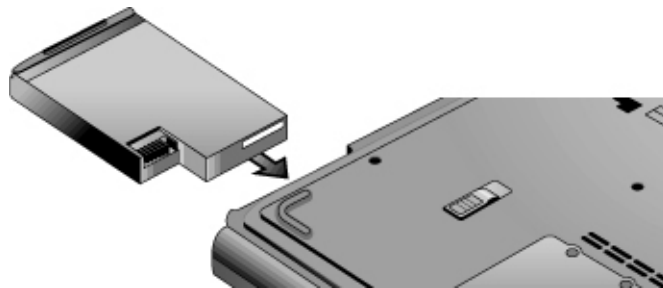
Step 1: Insert the battery

WARNING

Do not mutilate or puncture batteries. Do not dispose of batteries in fire, or they can burst or explode, releasing hazardous chemicals. Rechargeable batteries must be recycled or disposed of properly.

Your notebook is shipped with the battery installed. If the battery has been removed, you should install it:

1. Turn the notebook upside down.
2. Insert the connector end of the battery into the battery compartment, then slide the battery in until it latches.



Step 2: Connect AC power

CAUTION

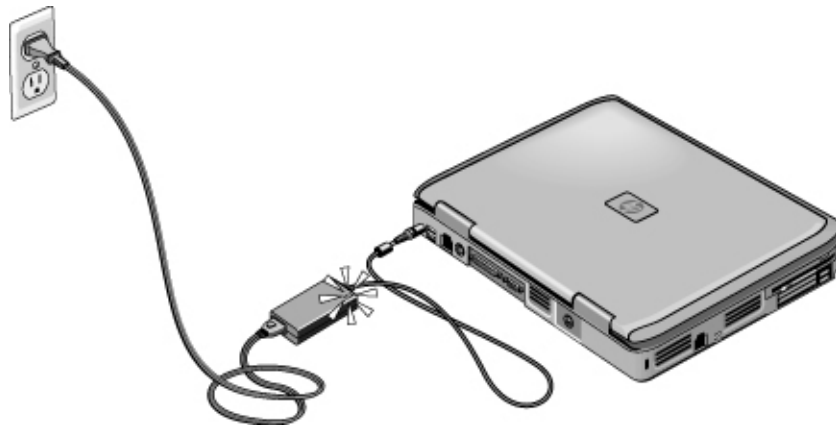
Use only the AC adapter included with your notebook (or other approved adapter that meets the power requirements of the notebook).

Using the wrong AC adapter could damage the notebook or adapter or cause data loss and may void your warranty.

1. Plug the AC adapter into the notebook.
2. Connect the power cord to the AC adapter.
3. Plug the power cord into a wall outlet. The notebook battery starts charging.

Important

When unplugging the power cord, unplug it from the outlet before unplugging it from the AC adapter.



While the battery is charging, you can continue with the “Step 3: Connect a phone line” section.

Step 3: Connect a phone line

1. Make sure the telephone line is an analog line, sometimes called a data line. (Do **not** use a digital line.)
2. Connect the telephone cord (RJ-11) into a telephone jack.
3. Plug the other end of the telephone cord into the RJ-11 modem jack on the notebook.



For details about using the modem, including AT commands, see the *Reference Guide* on the *Documentation Library* CD.

Step 4: Turn on the notebook

Press the power button above the left side of the keyboard. The notebook boots up and Windows starts automatically.



Hint

If your notebook does not turn on when operating on battery power, the battery may be out of power. Plug in the AC adapter, then press the power button again. Leave the AC adapter plugged in for several hours to fully charge the battery. Charge times will vary.

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).

Step 5: Set up Windows

Your notebook has the Microsoft Windows operating system preinstalled on its hard drive. The first time you turn on your notebook, the Windows Setup program runs automatically so you can customize your setup.

1. Follow the Setup program instructions on the screen. If the program prompts you to enter the Product ID code, locate the code on the bottom of the notebook.
2. Check the modem country or region settings. Select Start > Control Panel > Printers and Other Hardware > Phone and Modem Options, then choose your country or region.

Using the Documentation Library CD

Information about using the notebook can be found on the *Documentation Library* CD included with the notebook. When you insert the *Documentation Library* CD into a CD or DVD drive, the CD menu appears on the screen after a brief pause. Or you can display the menu manually:

1. Select Start > Run.
2. In the Open field, type `explorer X:` (where *X* is the letter of the CD/DVD drive). Select OK.
3. From the list that appears, select the file with the **.exe** extension (for example, `Filename.exe`).

The application launches.

Using Acrobat Reader

Adobe Acrobat Reader is the application used to display the notebook documentation. If you see Adobe Acrobat messages when you install the *Documentation Library* CD:

- Choose to install Acrobat Reader.
- When prompted, choose to accept the Acrobat Reader license agreement.

Basic Operation

Operating Your Notebook

You can start and stop your notebook by using the power button. However, at certain times you may want to use other methods to start or stop the notebook, depending on power considerations, types of active connections, and startup time.

Default power settings

Power mode	To enter this mode	Function
ON —Power status light will turn on.	Briefly press the power button.	Powers on the notebook.
OFF —Power status light will turn off.	Select Start > Turn Off Computer > Turn Off. If the system has stopped responding and Windows shutdown procedures cannot be used, press and hold the power button for at least 4 seconds to turn off the notebook.	Powers off the notebook.
Standby —Power status light will blink.	Select Start > Turn Off Computer > Stand By. —or— Allow the system to time out.	<ul style="list-style-type: none">• Saves significant power.• Turns off the display and other components.• Maintains current session in RAM.• Restarts quickly.• Restores network connections.
Hibernation —Power status light will turn off.	If the notebook is already on, briefly press the power button. —or— Press Fn+F12. —or— Allow the system to time out.	<ul style="list-style-type: none">• Saves maximum power.• Saves current session to disk, then shuts down.• Restores network connections.

You can also customize the way these power modes work. See the “Batteries and Power Management” chapter in the *Reference Guide* on the *Documentation Library* CD included with your notebook.

To reset the notebook

Occasionally, you may find that Windows or the notebook has stopped responding and will not let you turn off the notebook. If this happens, try the following procedures in this order:

- If possible, shut down Windows. Press CTRL+ALT+DEL, then select Shut Down, Restart.
–or–
- Press and hold the power button for at least 4 seconds until the display shuts down. Unsaved data will be lost. Press the power button again to restart.
–or–
- Insert the tip of a paper clip into the reset button on the bottom of the notebook, then press the power button to restart.

To change the boot device

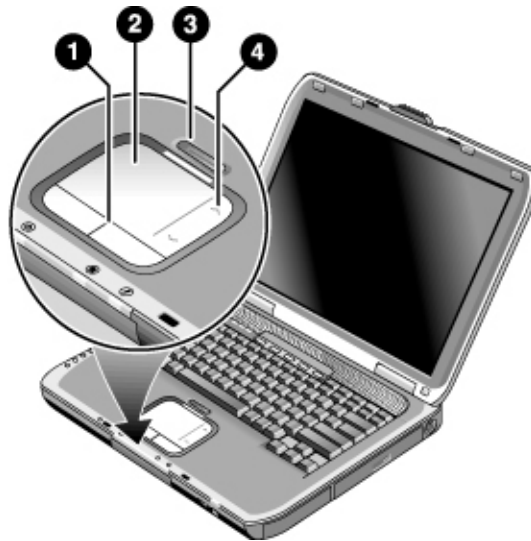
The notebook normally boots from its internal hard drive. You can also boot the notebook from a diskette drive, a CD-ROM drive, or an internal network interface card.

1. Select Start > Turn Off Computer > Restart.
2. When the logo screen appears, press ESC to display the Boot menu.
3. Use the arrow keys to select the boot device, then press ENTER.

If you want to boot from a specific device whenever it is present, change the boot order using the BIOS Setup utility. See “Configuring Your Notebook” in the “Troubleshooting and Maintenance” chapter in this guide.

To use the TouchPad

The TouchPad includes an on-off button so you can turn off the TouchPad to avoid moving the pointer accidentally when you are typing. The indicator light turns off when you turn off the TouchPad.



- 1 Click buttons.** The Click buttons work like the left and right buttons on a standard mouse.
- 2 Touchpad** (touch-sensitive pointing device).
- 3 Touchpad on-off button and indicator light.**
- 4 Scroll pad.** The scroll pad scrolls vertically to display the contents of the active window.

To use the function hot keys



The combination of the Fn key plus another key creates a *hot key*—a shortcut key sequence—for various system controls. To use a hot key, press *and hold* Fn, press the appropriate second key, then release both keys.

This hot key	Does this
Fn+F1	Decreases the display brightness.
Fn+F2	Increases the display brightness.
Fn+F8	Toggles the built-in keypad on and off. Does not affect an external keyboard. If Num Lock is on, then the numeric functions are active. Otherwise, cursor control is active (as marked on an external keyboard).
Fn+F12	Enters Hibernation.
Fn+NumLock	Toggles Scroll Lock on and off.
Fn+Page Up	Increases the audio volume and cancels the mute setting.
Fn+Page Down	Decreases the audio volume.
Fn+Backspace	Mutes/unmutes the audio output.

Using CDs or DVDs

To play DVD movies

If your notebook is equipped with a DVD or other DVD readable drive, it also includes DVD player software that lets you play DVD movies.

Select Start > All Programs > Multimedia > DVD Player > InterVideo WinDVD.

Important

DVDs can have regional codes embedded in the disc data. These codes prevent DVD movies from being played outside the region of the world in which they are sold. If you get a region code error, you are trying to play a DVD intended for a different region.

Most DVD drives let you change the region code only a limited number of times (usually no more than four). When you reach this limit, your last change to the region code will be hard-coded on the DVD drive and will be permanent. Your warranty does not cover the expense of correcting this situation. Refer to the Help for your DVD player software for details about setting region codes.

To connect a TV to your notebook

You can use a TV as an external monitor for your notebook. To connect a TV to your notebook:

1. Plug a standard 4-pin S-Video cable to the S-Video out jack on your notebook (yellow connector on the back panel) to the S-Video in jack on your television. Restart your notebook.

Note

Although your notebook has a 7-pin S-Video out jack, the notebook accepts either a 7-pin or 4-pin cable connection.

2. Using your mouse, right-click in an empty area of the desktop.
3. Select Properties, select the Settings tab, then select the Advanced button.

-or-

Select Start > Control Panel > Appearance and Themes > Display. Then, select the Settings tab, select the Advanced button, and select the Displays tab.

4. To enable the TV, select the red button next to TV.

Note

If the S-Video cable is not plugged into your notebook and TV, the red button will not be displayed.

5. Select Apply to accept the changes.
6. If you are prompted to restart Windows, select Yes.

To connect an infrared device (select models only)

Note

Select models include an infrared port. By default, the infrared port is not enabled, so you must first enable it before you can use it.

If your model has an infrared port (a small, rectangular lens located on the front of the notebook), then your notebook has wireless, serial communication capability. That is, your notebook and other infrared devices, such as printers or other notebooks, can communicate wirelessly using this port.

Using the infrared port

- Make sure the infrared port of your notebook and the infrared port of the device with which you want to communicate lie in a straight line facing each other. The two ports should be no more than one meter apart with no obstructions in between. Noise from nearby equipment can cause transmission errors.
 1. Select Start > Control Panel > Performance and Maintenance > System.
 2. Select the Hardware tab.
 3. Select the Device Manager button.
 4. Select the ALI fast infrared controller, then the Enable Device button.
 5. Select Next > Finish > Close. Then close all open dialog boxes.
- To check the status of communications, open Wireless Link by selecting Start > Control Panel > Printers & Other Hardware > Wireless Link.

Printing to an infrared printer

Install your printer and assign it to the notebook infrared port. You can then print from your applications as you would to any other printer.

Transferring files through an infrared connection

You can use your notebook infrared port to transfer files by using Wireless Link. See the Windows online Help for instructions on using Wireless Link.

Batteries and Power Management

Using Battery Power

For information about how your notebook regulates power consumption, and how you can manually reduce power consumption and extend the life of the notebook battery, see the “Batteries and Power Management” chapter in the *Reference Guide* on the *Documentation Library* CD included with your notebook.

To check battery status

From the battery status light

Check the battery status light on the notebook.

From the Windows taskbar

The Windows taskbar can display a power icon that provides detailed battery status information (see Windows Help for details). The icon resembles a battery when AC power is not connected.

- Place the pointer over the power icon to display the remaining battery charge. This value is shown as either a percentage of charge remaining or as time remaining.
- Select the power icon to open the Battery Meter window.

From the Windows Control Panel

Select Start > Control Panel > Performance and Maintenance > Power Options, then select the Power Meter tab to see the battery status. The Alarms and Advanced tabs provide additional Windows power information options.

On the battery

1. Remove the battery from the notebook. See the “Getting Started with Your Notebook” chapter in this guide.
2. Press the contact pad on the side of the battery. The number of lights that turn on indicates the remaining charge (each light represents 20 percent of a full charge).

To respond to a low-battery warning

The notebook automatically alerts you when the battery power drops to a critically low level. The notebook first emits a high-pitched beep or displays a warning message. Then, if you do not restore power within a short time, the notebook enters Hibernation.

After the notebook enters Hibernation in this way, you won't be able to turn it on again until you restore power by doing *one* of the following procedures:

- Replace the battery with a charged one.
- Plug in the AC adapter.

Note

If you plug in the AC adapter, you can continue to work while your battery recharges.

To recharge the battery

CAUTION

The AC adapter is normally warm when plugged into an AC outlet. The notebook is normally warm while recharging. Do not recharge the notebook in a briefcase or other confined space, or the battery could overheat.

Plug the AC adapter into the notebook.

To get the longest operating time, wait until the battery charge is below 50 percent before recharging, then charge it fully (100 percent). Charging can take up to several hours. If you continue working while the battery charges, the charging time may increase.

The operating time for a fully charged battery depends on the notebook model, power management settings, and level of use.

Troubleshooting and Maintenance

Troubleshooting Your Notebook

This chapter contains solutions to a few basic problems you might have with your notebook. Try the solutions one at a time, in the order in which they are presented.

Here are other sources of information for troubleshooting:

- For a more complete list of troubleshooting suggestions, see the troubleshooting chapter in the *Reference Guide* on the *Documentation Library* CD included with your notebook.
- Use the Windows troubleshooters. Select Start > Help and Support.
- Select the question mark on the One-Touch button located at the top of the keyboard.
- See the Microsoft Windows manual shipped with the notebook.
- Refer to the *Worldwide Telephone Numbers* booklet to contact a Customer Care Center for help and support.

Display problems

If the notebook is on, but the screen is blank

- Move the mouse or tap the TouchPad. This will wake the display if it is in Display-off mode.
- If the notebook is cold, allow it to warm up.

If the screen is difficult to read

- Try setting the display resolution to its default setting of 1024 × 768 or higher, depending on your model (select Start > Control Panel > Appearance and Themes > Display).
- Try adjusting the size of the desktop icons and labels.

If an external display does not work

- Check the connections.
- The external monitor may not be detected. In the BIOS Setup utility, try setting Video Display Device to Both in the System Devices menu.
- If you're using a TV connected to the S-Video port, you must activate the TV.

Hard drive problems

If the notebook hard drive does not spin

- Make sure the notebook has power. If necessary, connect the AC adapter, and make sure it is fully plugged into a power source and into the back of the notebook.
- Remove and reinsert the hard drive.

If files are corrupted

- Open My Computer, select the disk you want to scan, select File > Properties, then select the Check Now box under the Error-checking section of the Tools Tab.
- Run the virus-scanning program.
- If necessary, you can format the hard drive and reinstall the original factory software using the *QuickRestore System Recovery* CD included with your notebook.

Keyboard and pointing device problems

Use these suggestions for built-in or external devices.

If the pointer is difficult to control

Adjust the pointer controls. Select Start > Control Panel > Printers and Other Hardware > Mouse.

If the TouchPad does not work

- Press the TouchPad on-off button to turn on the light.
- Do not touch the TouchPad while the notebook is rebooting. If this happens, try pressing a key on the keyboard to restore normal operation.
- If an external mouse is connected, the built-in pointing devices are disabled. You can change this setting with the BIOS Setup utility.
- Restart the notebook. Select Start > Turn Off Computer > Restart.

Performance problems

For best performance, your notebook should have at least 128 MB of memory (RAM).

If the notebook stops responding

- Press CTRL+ALT+DEL, then use Task Manager to end the application that is not responding.
- Press and hold the power button for at least 4 seconds to turn off and reset the notebook. **Unsaved data will be lost.** Then press the power button again to turn the notebook back on.
- If nothing happens, insert the tip of a paper clip into the reset button on the bottom of the notebook. Then press the power button to turn the notebook back on.
- To avoid lockup problems, avoid pressing the TV Now! One-Touch button to switch display devices while graphic-intensive applications are running. Also avoid turning the notebook off or putting it into Standby while such applications are running.

Power and battery problems

If the notebook turns off immediately after it turns on

Battery power is probably extremely low. Plug in the AC adapter or insert a charged battery.

If the notebook keeps beeping

The notebook beeps repeatedly or displays a warning when battery power is low. Save your work, shut down Windows immediately, then insert a charged battery or plug in the AC adapter.

If the battery does not charge

- Make sure the AC adapter is fully plugged into the power source and the notebook, and that the light on the adapter is on.
- If you're using a power strip, remove the AC adapter from the power strip, then plug it directly into a wall outlet.
- Make sure the battery is fully installed and locked in place.

- Make sure you are using only the AC adapter included with your notebook (or other approved adapter that meets the power requirements of the notebook). Do **not** use a 60-watt, 3.16-amp adapter.
- Move the notebook away from any nearby heat source. Unplug the AC adapter and allow the battery to cool down. If the battery gets too hot, it will not charge properly.
- If available, try another battery and AC adapter.

Startup problems

If the notebook does not respond when you turn it on

- Connect the AC adapter.
- Reset the notebook by inserting the tip of a paper clip into the reset button on the bottom of the notebook. Then press the power button to turn it on.
- If the notebook still does not respond, remove the battery and AC adapter, remove any PC Cards, and undock the notebook if docked. Then plug in the AC adapter again, and reset the notebook using the reset button.

If the notebook will not boot from battery power

- Make sure the battery is properly inserted and fully charged. Check the battery charge by removing it and pressing the pad on the side of the battery. The lights show the charge level.
- If available, try another battery.

Configuring Your Notebook

To run the BIOS Setup utility

The BIOS (basic input and output system) Setup utility allows you to make changes to the notebook system configuration, and to tailor the operation of your notebook to your individual work needs.

The settings made in BIOS Setup generally control the notebook hardware and affect how the notebook operates.

1. Select Start > Turn Off Computer > Restart.
2. When the logo screen appears, press F2 to enter BIOS Setup.
3. The pointing devices are not active in BIOS Setup, so you will need to use the keyboard to navigate:
 - Press the LEFT and RIGHT arrow keys to move among menus.
 - Press the UP and DOWN arrow keys to move among parameters in a menu.
 - Press + or – to move through values for the current parameter, or press ENTER to change a setting.
4. After you select the options you want, press F10 or use the Exit menu to exit BIOS Setup.
5. If the settings cause a conflict between devices during reboot, the system prompts you to run BIOS Setup and marks the conflicting settings.

Reinstalling and Updating Software

Your notebook features two ways that allow you to install individual software applications or to restore the entire original contents of your hard drive:

- *QuickRestore System Recovery* CD, included with your notebook, allows you to restore your hard drive to its original factory contents.
- Application Recovery utility allows you to restore or install one or more applications at a time. Select Start > Software Setup, then follow the installation wizard on the screen.

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