HP Notebook PC

Startup Guide

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Contents

Introducing Your Computer

Taking Inventory

Your HP notebook PC is shipped with these items:

- battery

- AC adapter and power cord

- *Quick Start* sheet

- HP notebook PC *Startup Guide*

- Recovery CD (or CDs), used to restore Windows and all software included with your computer

- Microsoft Windows manual (Windows 98, Windows Millennium Edition [ME] or Windows 2000)

- telephone cord (if your computer has a built-in modem)

Software bundled on your computer

Your HP notebook PC comes with preinstalled software, and various models are configured with different combinations of software. To see the list of software included with your computer, check HP Notes in the HP Library: click Start, Programs, HP Library, HP Notes—or double-click the HP Notes icon on the desktop.

For Windows ME, click Start, Help, Your HP Notebook, HP Notes.

To find more information

Here are some sources of information about your HP notebook PC.

Source	Description
Quick Start sheet	This pictorial introduction shows you how to get the computer up and running quickly.
Reference Guide	The *Reference Guide* is a help file located on your hard drive. It provides you with detailed information about your notebook PC (Start, Programs, HP Library, Reference Guide).
	For Windows ME: Click Start, Help, Your HP Notebook, HP Reference Guide.
HP Notes	This document contains late-breaking information available after the *Reference Guide* was completed (Start, Programs, HP Library, HP Notes—or double-click the HP Notes icon on the desktop).
	For Windows ME: Click Start, Help, Your HP Notebook, HP Notes.
Introductory Microsoft manual for Windows	This manual contains information about using the standard features of Microsoft Windows (Windows 98, Windows ME or Windows 2000, depending on which operating system your computer is shipped with).
Windows Help	Click Start, Help.
HP notebook PC website	www.hp.com/notebooks

Identifying Parts of the Notebook

Top and right side view
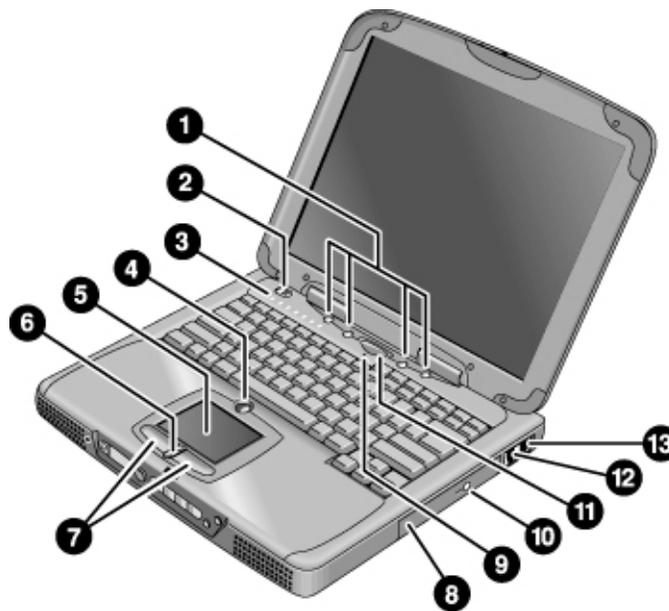
1	One-Touch buttons	8	CD-ROM, CD-RW, DVD, or CD-RW/DVD drive
2	Power switch	9	Microphone
3	Status lights (see "Status lights" on page 14)	10	CD-ROM or DVD eject button
4	Pad Lock touch pad on/off button	11	Blue standby button
5	Touch pad (pointing device)	12	Modem port **(on selected models)**
6	Scroll up/down toggle	13	LAN port **(on selected models)**
7	Click buttons		

Front view
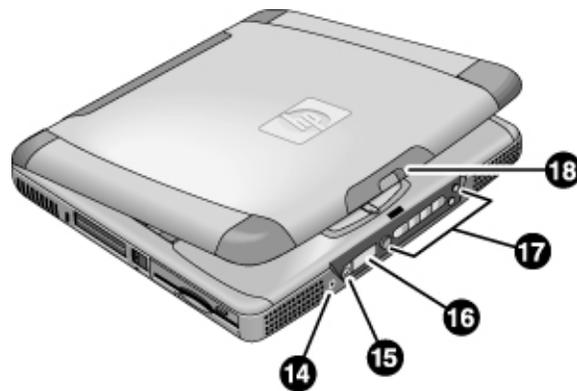
14   Headphone audio jack

15   Status panel mode select button **(on selected models)**

16   Status panel **(on selected models)**

17   Multimedia buttons **(on selected models)** (see
       "Multimedia Buttons" in the *Reference Guide*)

18   Latch (to open computer)

Rear and left side view

19	AC adapter (power) jack	26	USB ports
20	PS/2 port (external mouse or keyboard)	27	Microphone jack
21	Serial port	28	Kensington lock slot (security connector)
22	Parallel port	29	PC card slots
23	VGA port (external monitor)	30	System-off button (for resetting computer)
24	Infrared port **(on selected models)**	31	PC card eject buttons
25	TV output port	32	Floppy disk drive

Bottom view
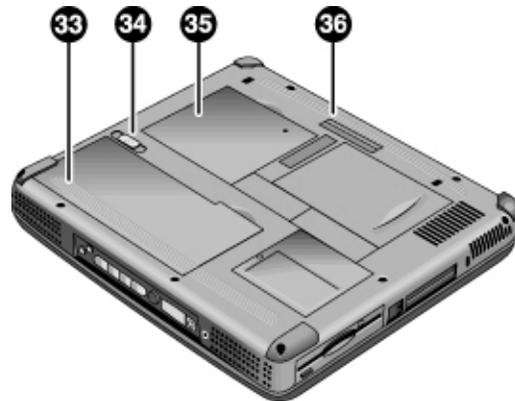
33   Battery

34   Battery latch

35   RAM expansion cover

36   Port replicator (docking) connector **(on selected models)**

Status lights

1   Power
2   Battery
3   Caps lock (capital letters)
4   Num lock (numeric keypad)
5   Scroll lock
6   Floppy disk drive access
7   Hard disk drive access
8   CD-ROM, CD-RW, DVD, or CD-RW/DVD drive access

Multimedia buttons

(Provided for selected models.) The multimedia buttons are on the front of the computer, to the right of the status display. They control the computer's CD, DVD, or MP3 player in the same way the controls of a standalone multimedia player control its functions.

The buttons also work if the system is turned on, though in that case you don't need to use the multimedia power switch to turn on the player. When the computer is on, the volume control buttons also govern the volume for most other audio applications.

If the system is turned off (or in standby or hibernate mode), you can still use the player for audio CD playback. Slide the multimedia power switch to the left to activate the player without turning on the computer.
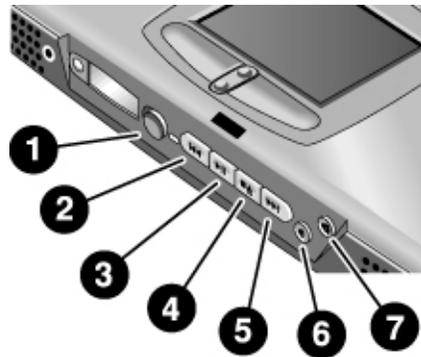
1	Multimedia power (use only when system is turned off or in standby or hibernate mode)
2	Previous track
3	Play/pause
4	Stop (when computer is on)* Stop/eject (when computer is off)
5	Next track
6	Volume control down
7	Volume control up

*You can eject a CD or DVD by pressing the eject button on the CD/DVD drive.

Setting Up the Computer

To install the battery

Your computer is shipped with the battery installed. If the battery has been removed, you can install it by inserting it into the battery bay on the bottom of your computer. Insert the back edge first, as shown, then press down the front edge until the battery latch clicks shut.

Once you have installed the battery, connect the AC adapter to the computer and recharge the battery while you work. You can also replace a low battery with another that is more fully charged.

WARNING   **Do not mutilate, puncture, or dispose of batteries in fire. A battery can burst or explode, releasing hazardous chemicals. A rechargeable battery must be recycled or disposed of properly.**

To connect AC power

Plug in the AC adapter, then connect the AC adapter to the rear of the computer. The battery starts charging.

CAUTION

Use only an HP AC adapter intended for this product, either the adapter that came with the computer or another authorized HP adapter. Using an unauthorized AC adapter can damage the computer and may void your warranty. Refer to the warranty statement for your product.

To connect a phone line

Selected models of the HP notebook PC include a built-in modem. If you prefer, you can instead use a PC card modem or an external modem to connect a phone line.

1. Plug one end of the phone line into the modem phone jack on the computer. Be sure it clicks into place.
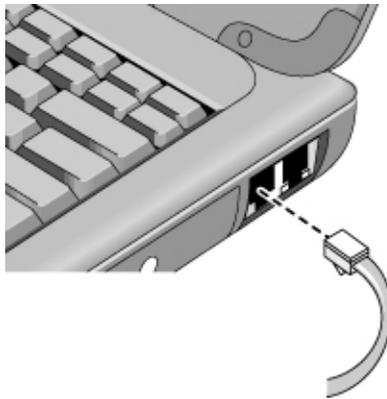
2. Plug the other end of the phone line into a telephone jack. (If the phone line does not fit your telephone jack, you may need to use an adapter.)

CAUTION   **Your built-in modem may not work with multiple phone lines or a private branch exchange (PBX). It cannot be connected to a coin-operated telephone, and it does not work with party lines. Some of these connections may result in excess electrical voltage and could cause a malfunction in the internal modem. Check your telephone line type prior to connecting your phone line.**

To turn on the computer

Slide the power switch to the left—it's the control above the left side of the keyboard. Windows starts automatically. If you are turning on the computer for the first time, go to "To set up Windows" on page 19.

The power status light next to the power switch (see "Status lights" on page 14) reports the following:

- steady green light: computer is on
- steady amber light: computer is in system standby (or suspend) mode
- no light: computer is off or in hibernate mode

See "Managing Power Consumption" on page 30 for additional information about turning off your computer.

Hint

If your computer does not turn on when operating on battery power, the battery may be out of power. Plug in the AC adapter and slide the power switch to the left again.

To set up Windows

Your HP notebook has Microsoft Windows—either Windows 98, Windows ME or Windows 2000—preinstalled on the hard disk drive. The first time you turn on your computer, a Windows Setup program will automatically run so that you can customize your setup.

Before you begin, connect the AC adapter to your notebook, since your battery may not be sufficiently charged to complete the Windows setup. Also, be sure to connect the notebook to a phone line; see "To connect a phone line" on page 18.

1. Slide the power switch to the left.

2. The Windows Setup program starts automatically.

3. Follow the instructions as they appear on the screen.

   During setup, you are prompted to:

   - enter a user name
   - accept the License Agreement

You can also register your computer at this time. Follow the instructions on the screen during setup, or—if registration does not occur during setup—double-click the HP Notebook Registration icon on the desktop.

Note You may be required to enter your Windows ID number. To locate it, look on the Certificate of Authenticity packaged with the Microsoft Windows manual or look for a sticker in the battery compartment.

If you have any connection problems with your modem, try redialing. If that doesn't work, you can skip registration for now.

To register your computer

Be sure to register your computer. Registering is free and fast, and it ensures you will receive quicker, more personalized support. The information you provide during registration will be used to provide you with better products and services.

There are three ways to register:

By modem

If you have Windows 98 or Windows ME, you are prompted automatically to register. To register by modem, see that the phone is connected, then follow the onscreen instructions.

If you have Windows 2000, you are not prompted to register, but you can register by modem if you double-click the HP Notebook Registration icon on the desktop or click the Register link in the Windows 2000 welcome screen. See that the phone line is connected and follow the onscreen instructions.

If you choose not to register right away, you can register by modem later by double-clicking the Registration icon on the desktop. This icon disappears after you register.

Note In Windows 2000, if the registration application is launched from a reminder (e.g., from the Microsoft Task Scheduler), it may fail to find a phone number for your country. In this case, double-click the HP Notebook Registration icon on the desktop and the application will succeed in finding a phone number to register successfully.

Note If you encounter a busy signal while attempting to register by modem, the registration client may suspend with an hourglass icon. Click the Back button and dial-out again.

If your computer does not have a built-in modem, you can register after you set up a PC card modem or an external modem—or you can register by phone or fax.

By phone

You can call your HP Customer Care Center and register by phone. Check "To call HP " on page 45 for the phone number.

By fax

If a printer is connected to your computer, you can print a copy of your registration and fax it to HP. You will find the fax number on the registration form.

To reset your computer

If Windows or your computer stops responding, you can reset the computer and restart Windows.

1. If possible, shut down Windows (Start, Shut Down, Shut down, OK).

2. If the computer does not shut down, slide and hold the power switch for five seconds, then release it.

3. If the computer still does not shut down, insert a pin or straightened paper clip into the recess on the left side of the computer, underneath the PC card eject buttons.
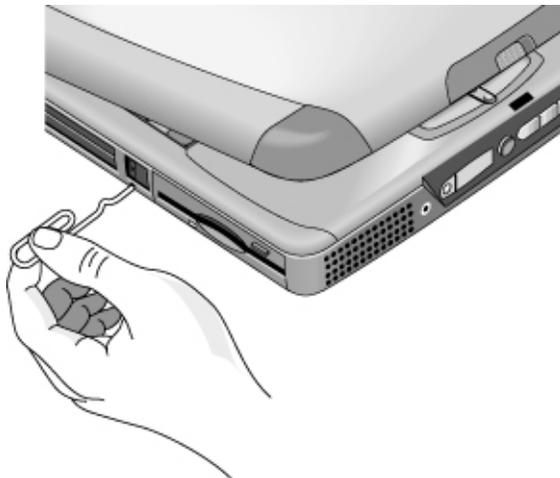
4. After the computer shuts down, slide the power switch and release it to turn the computer on again.

Using Your Computer

Operating the Computer

To use the Fn hot keys

The combination of the Fn key plus another key creates a *hot key*—a shortcut key sequence—for various system controls. Press *and hold* Fn while pressing the appropriate key. (When using an external keyboard, press and hold Ctrl+Alt with the appropriate key—use the Ctrl and Alt keys on the left side of the keyboard.)

Hot key	Does this
Fn+F1	Decreases the display's brightness (TFT screens only)
Fn+F2	Increases the display's brightness (TFT screens only)
Fn+F3	Decreases the display's brightness (HPA screens only)
Fn+F4	Increases the display's brightness (HPA screens only)
Fn+F5	Switches among the built-in display, an external display, and simultaneous displays. *It does not switch to a TV display connected to the TV output port*.
Fn+F7	Toggles the sound on and off (mutes sound)
Fn+F8	Toggles the embedded numeric keypad on and off
Fn+Lock key*	Toggles Scroll Lock on and off (except on external keyboard)
Fn+Up arrow	Increases sound volume (except on external keyboard)
Fn+Down arrow	Decreases sound volume (except on external keyboard)

*The Lock key is in the top row of the keyboard:

To use the touch pad

The touch pad, a touch-sensitive pointing device that controls the motion and speed of the pointer on the screen, is built into your computer.
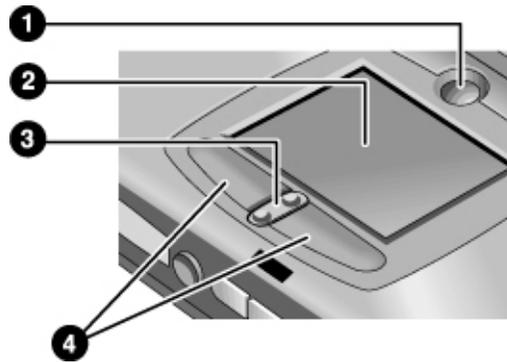
1	Pad Lock (touch pad on/off button)
2	Touch pad (pointing device)
3	Scroll up/down toggle
4	Click buttons

- Move a thumb or finger across the touch pad in the direction you want the pointer to move.

- Use the click buttons, which function like the left and right buttons on a mouse, to make your selection. You can also tap on the touch pad instead of clicking a button.

- To open an application, move the pointer over the icon, then press the left click button twice rapidly (double-click). You can instead tap twice on the touch pad.

- To make a menu selection, move the pointer to the item and click the left click button once.

- To open the shortcut menu for an item, move the pointer over the item and click the right click button.

- To drag an item, move the pointer over the item. Press and hold the left click button while you move the pointer to the new location. Release the button.

- To scroll up and down, press the top or bottom of the center toggle below the touch pad.

- To disable the touch pad, press the Pad Lock button. (The amber touch pad indicator lights.) To reenable it, press the Pad Lock button again. You may wish to disable the touch pad, for example, when you are entering text and do not want to move the cursor accidentally. Avoid contact with the touch pad itself at the same time you are pressing the Pad Lock button (to disable or to reenable); simultaneous contact will not allow the Pad Lock button to work properly.

Working in Comfort with a Notebook PC

You can use your HP notebook computer virtually anywhere, anytime. The following recommendations should help you work more comfortably.

Note that if you are using your portable computer as your primary computer, or using it for extended periods, you should use it with a full-size keyboard, monitor, and mouse. This will give your portable computer the adjustability and comfort features of a desktop unit. HP docking accessories offer quick, easy connections to these devices. More information on how to prepare your workspace environment and set up your HP equipment is available in *Working in Comfort*, which is preloaded on the hard disk in the HP Library (under Start, Programs, HP Library) and available on the Recovery CD in \hp\library—as well as at www.hp.com/ergo. (In Windows ME, you can access *Working in Comfort* by clicking Start, Help, Your HP Notebook, Working in Comfort.)

WARNING

Improper use of keyboards and other input devices has been associated with ergonomic injury. For more information about reducing your risk, visit our ergonomics website or see *Working in Comfort* in the online HP Library.

Your mobile work environment

- Use a chair that provides good support for your lower back. If an adjustable chair is not available, you can use a pillow or rolled-up towel to provide lower back support.

- Try to keep your thighs parallel to the floor and your feet flat on the floor. In a mobile environment, you can do this by using a phone book or briefcase to support your feet.

- Adjust the height of either your work surface or chair to keep your arms in a neutral position. Your arms should be relaxed and loose, elbows at your sides, with the forearms and hands parallel with the floor.

- Position your notebook computer display to minimize glare and reflection. For example, on an airplane, lower the window shade; or in a hotel room, draw the curtains. You also should maintain a comfortable viewing distance—approximately 40 to 60 cm (16 to 24 inches). Adjust the angle of your display to help keep your head angled slightly downward in a comfortable position.

Using your mobile computer

- Position the computer so your wrists and hands are in a neutral position. Your wrists should be as straight as possible and should not have to bend sideways or more than 10 degrees up or down. Your HP notebook computer has a built-in palm rest, which is ideal for this purpose.

- Try to type as lightly as possible. The notebook keyboard requires little force to activate.

- Take frequent, short rest breaks—this is especially important in a mobile computing environment.

- Portable computers weigh between approximately 1.5 and 4 kilograms (approximately 3 to 8 pounds). When traveling, be sure to carry your computer properly to minimize strain on your body. Shift the bag containing your notebook equipment frequently between your left and right hands and shoulders.

Traveling with Your Computer

Managing Power Consumption

When you are not using your computer, you will want to maximize battery operating time without compromising performance. It is not necessary to turn the computer off in order to reduce power consumption and extend battery life.

With Windows 98, Windows ME and Windows 2000, Advanced Configuration and Power Interface (ACPI) provides both manual and automated tools for reducing power consumption.

- You can set power management options to occur automatically, based on timeout values entered. See "To use automated power management" in the *Reference Guide.*

- You can also invoke power management options manually at any time by pressing the appropriate key. See "To use manual power management" below.

To use manual power management

You can manage your computer's power manually whenever you need to. with any of the following three levels of power management.

System Standby

Action	Turns off the display and hard disk drive.
When	Press the blue standby button *-OR-* click Start, Shutdown, Standby *-OR-* Configure lid, power button, or sleep button to perform the standby action. Then close lid or press button.
Resume	Press the blue standby button to return to your current session.

System standby can also occur automatically when the timeout setting in the Power Management Properties window is reached. (In Windows 98, Windows ME and Windows 2000, *standby* and *suspend* are equivalent terms.)

CAUTION

Make a habit of saving your work before allowing your computer to go to system standby. If there is an interruption in power while the computer is in standby, information that has not been saved will be lost.

System Hibernation

Action	Saves the current session to disk, then shuts down. Provides maximum power savings while still allowing you to recover the current session. Restores network connections.
When	Click Start, Shut Down, Hibernate (Windows ME and Windows 2000) *-OR-* Configure lid, power button, or sleep button to perform the hibernation action. Then close lid or press button (Windows 98, Windows ME, and Windows 2000). *-OR-* Press Fn+F12 (in Windows 2000 only)
Resume	Slide the power switch to the left to recover your current session. This may take several minutes.

Hibernate mode also occurs automatically when battery power reaches a critically low level. See "To respond to a low-battery warning" on page 34. In Windows 98, hibernate mode occurs automatically with critical low battery power only; and manual initiation of hibernate is not available by default (except, if you wish, you can modify the default setting for the power switch or the standby button to manually initiate hibernate mode instead).

Off

Action	Turning off your computer provides maximum power savings. The current session is not saved and unsaved data will be lost.
When	Click Start, Shut Down, Shut down (recommended) *-OR-* Slide the power button and hold for 4 seconds *-OR-* Configure a power button (same as Hibernate mode).
Resume	Slide the power switch to the left to start a new session. This may take several minutes.

If the system stops responding and you are not able to turn off the computer as described above, you can still recover. See "To reset your computer" on page 21.

To set power management properties

1. Click Start, Settings, Control Panel.

2. Double-click Power Management in Windows 98; double-click Power Options in Windows 2000 and Windows ME. (For details see Windows Help and Support.)

3. Set the timeout periods you prefer. (You can choose Never, but that setting is not recommended for hibernate mode.)

4. Click OK.

Using Battery Power

You can operate the HP notebook PC on battery power for extended periods, but you should be prepared to save your work and shut down if the battery is low.

To check the battery status

From the battery status light

The battery status light reports the following information:

Green   AC attached—battery full

Amber   AC attached—battery charging

Red   AC attached—battery will not accept charge (abnormal)

From the Windows taskbar

The System Tray on the Windows taskbar includes a power icon that allows access to more detailed battery status information. The icon looks like a battery when AC is not connected.

- Place pointer over the power icon to display the percentage of charge remaining.

- Right-click the power icon to view the options for displaying power information.

- Left-click the power icon to display a menu of the available power schemes.

From the status panel

If your computer has a status panel, press the status panel mode button repeatedly until you see the battery icon and the percentage of charge remaining.

To respond to a low-battery warning

The computer automatically alerts you when the battery power drops to a critically low level. First you will hear a high-pitched beep. Then, if you have not taken restorative action within a short time, the system hibernates.

You won't be able to turn the computer on again until you restore power by one of the following actions:

- Plug in the AC adapter (see "To connect AC power" on page 17).

  OR

- Replace the battery with one that is charged (see "To install the battery" on page 16). The system must first be shut down or put into hibernate mode before changing the battery.

Note

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

Configuring and Expanding Your Computer

Installing RAM modules

The notebook provides an optional memory expansion slot for installing up to two RAM expansion modules. Use HP SDRAM modules only; EDO RAM is not supported. *Replace the RAM module with one of the same speed or faster: a PC133 socket can use either a PC100 or a PC133 module, but a PC100 socket can use only a PC100 module.* Both the module and the motherboard's socket are marked either "PC100" or "PC133".

Your computer's computer chips are extremely static-sensitive. Static electricity can permanently damage computer chips. Carefully read the following caution information.

CAUTION **Handle the RAM module only by its three nonconnector edges. Otherwise, you may damage the module due to electrostatic discharge. Static electricity can permanently damage computer chips. It is therefore important to discharge the static electricity from your body before touching or installing the memory module. Discharge your body's electricity by touching the metal shielding around the connectors on the rear of the computer.**

You'll need a small Phillips screwdriver to complete this procedure.

1. Click the Start Button and select Shut down.

2. Unplug the AC adapter and remove the battery.

3. Remove the RAM expansion cover located on the bottom of the computer, using a Phillips screwdriver.
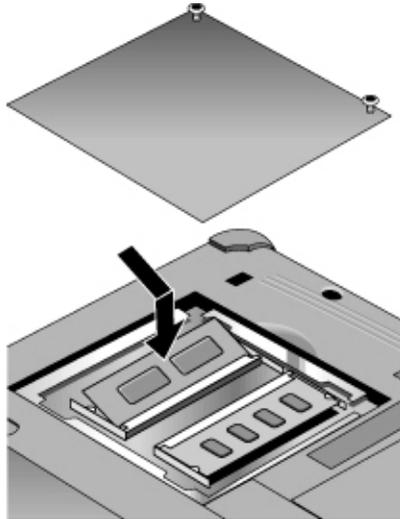
4. Insert the RAM expansion module into the connector at about a 30° angle until it's fully inserted. Then press down at both sides of the module until it latches.If the socket is marked "PC100", you can insert either a PC100 or a PC133 module. If the socket is marked "PC133", you must insert a PC133 module.

5. Replace the RAM expansion module door.

6. Insert the battery.

Removing RAM modules

After you remove the RAM expansion cover:
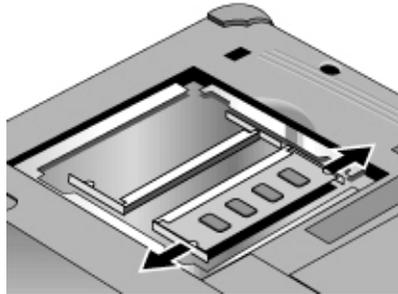
1. Release the two latches at the sides of the RAM expansion module by pushing them gently outward (away from the sides of the module). When you release the latches, the free edge of the module pops up.

2. Pull the module out of the connector. Note the markings on the socket, so you can replace the module with a compatible module.

3. Replace the RAM expansion module door.

Expanding the hibernate partition

You can create the hibernate partition by booting from the Recovery CD. The partitioning and recovery process takes approximately 10 to 15 minutes. Do not interrupt the process or unplug the AC adapter until the process is completed.

CAUTION   **This procedure will format the hard disk drive and erase all data on the disk. Be sure to back up all data from your hard disk before you begin this procedure. After the hard disk drive is formatted, you'll need to reinstall any applications.**

1. Back up all data from your hard disk.

2. If you wish to install additional RAM, do so now.

3. Connect the AC adapter to the computer.

4. Insert the Recovery CD in the CD-ROM (or DVD) drive. (If your system came with two Recovery CDs, insert Disc 1.)

5. Restart the computer, and when you see the HP logo, press Esc.

6. Select CD-ROM/DVD Drive as the first boot device, and press Return to continue.

7. If you want to choose a nondefault partition size, click the Advanced button on the Recovery CD window, then select a size from the Hibernate Partition Size drop-down list. **Note:** In Windows 98, the size of the Hibernate Partition must *equal or exceed* the total memory (RAM) in your system.

8. If you want to create a hibernate partition without recovering the operating system, select the "Do not load operating system" checkbox and select one of the partition options.

9. Choose Continue.

10. Click OK to begin.

   If your system came with two Recovery CDs, you may be prompted to insert Disc 2 during the partitioning process.

11. When you are prompted to reboot your computer, remove the Recovery CD and press Ctrl+Alt+Delete.

12. Follow the onscreen instructions for setting up Windows.

13. When Windows setup is complete, reinstall any applications and restore backed-up data.

Service and Support

Hewlett-Packard Limited Warranty Statement

1. HP warrants to you, the end-user customer, that HP hardware, accessories, and supplies will be free from defects in materials and workmanship after the date of purchase, for the period specified in the Warranty Duration sheet included with your HP computer. HP Pavilion and XE Series Notebooks typically come with a standard one-year warranty. Please see your Warranty Duration sheet for more details. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products which prove to be defective. Replacement products may be either new or equivalent in performance to new.

2. HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for the period specified in the Warranty Duration sheet included with your HP computer, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the warranty period, HP will replace software which does not execute its programming instructions due to such defects.

3. HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.

4. HP's limited warranty is valid in any country or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP will not alter form, fit or function of the product to make it operate in a country for which it was never intended to function for legal or regulatory reasons.

5. Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts, or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.

6. TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific

legal rights and you might also have other rights that vary from country to country, state to state, or province to province.

7. TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Getting Support for Your HP Notebook PC

HP offers a number of ways that you can get technical support for your computer. If you have questions or problems, here are the resources available to you:

- Look up information in the electronic *Reference Guide*.

- Visit the HP notebook website.

- Use HP Instant Support on your notebook.

- Call HP support.

- Look up information in Microsoft Windows Help and the printed Windows manual.

To use the *Reference Guide*

The *Reference Guide* is an electronic help system included on your hard disk. To open the *Reference Guide,* select Start, Programs, HP Library, Reference Guide. (On Windows ME, select Start, Help, Your HP Notebook, HP Reference Guide.) To locate information in the guide, use the Contents, Index, and Search tabs to look for information. The Contents tab lists the headings of all the topics in the guide. The Index tab provides an alphabetical list of the keywords in the guide; you can locate a keyword either by typing it in the box or by scrolling through the list. The Search tab allows you to find specific words and phrases.

To get help from the HP notebook website

HP has a website on the Internet dedicated to HP notebook owners: www.hp.com/notebooks. This website contains information about the various HP notebook models, warranties, support, and special promotions.

To get help with your computer at this website, click on Technical Support. In the technical support area, you will have access to:

- answers to frequently asked questions

- software, driver, and BIOS updates

- electronic manuals

- troubleshooting solutions

- self-help tools

- the basic services included with your warranty, as well as descriptions of enhanced and custom services

- latest support telephone numbers for HP products

To use HP Instant Support

Available at no charge, HP Instant Support is a value-added service, featuring web-based automated diagnosis and resolution capabilities. It can be personalized to meet your business needs, delivering the support experience that works for you and accelerating the resolution of computing problems.

Choose either automated Self-Service, for online delivery of answers, or Smart Solutions, which utilizes Instant Support's "smart search" function. This intelligent tool allows you to describe problems in everyday language, then wizards you through a variety of user-friendly support options. Find more information about Instant Support on our external website at www.hp.com/hps/instant/index.htm.

To call HP for Service and Support

If you are unable to solve a problem with your computer, you can call the HP Customer Care Center. The Customer Care Center will assist you at no charge during the term of the warranty, for warranty-related questions; you are responsible only for cost of the telephone call. During the free assistance period, HP will assist with questions about:

- applications and operating systems included with your computer

- HP-described operation environments and conditions

- HP accessories, HP upgrades, and basic operation and troubleshooting

HP will not be able to help with questions about:

- non-HP hardware, software, operating systems, or usage not intended for—or not included by HP with—the product

- how to repair the product yourself

- product development or custom installations

- consulting

To locate the Customer Care Center in your area, check the following table. HP Customer Care Centers will assist you for free during the term of the warranty; you are responsible only for the cost of the telephone call. Check the HP notebook website (www.hp.com/notebooks) for the most complete and current list of phone numbers.

If the HP notebook product is not normally sold and supported by HP in the country of use, the customer must call one of the supported HP Customer Care Centers located nearest the region. Currently, OmniBook XE3 and Pavilion notebook service and support assistance is only provided in the following countries:

Pavilion Series Notebooks

US & Canada	(970) 635-1000
France	+33 (0)1 43 62 34 34
Mexico City	+52 58 9922
Mexico (outside Mexico City)	+52 01 800 472 6684
United Kingdom	+44 (0)207 512 52 02

OmniBook XE3 Series

North America	
United States	+1 (970) 635-1000
Canada	+1 (905) 206-4663
Latin America	
Mexico City	+52 58 9922
Mexico (outside Mexico City)	+52 01 800 472 6684
Asia Pacific	
Australia	+61 (0)3 8877 8000
Hong Kong	+852 800 96 7729
Japan	+81 (0)3 3335 8333
Malaysia	+60 (0)3 295 2566
New Zealand	+64 (0)9 356 6640
People's Republic of China	+86 800 810 5959
Singapore	+65 272 5300
Taiwan	+886(2)2717 0055
Europe	
Austria	+43 (0)7114 20 1080
Belgium (Dutch)	+32 (0)2 626 8806
Belgium (French)	+32 (0)2 626 8807
Czech Republic	+42 (0)2 6130 7310
Denmark	+45 39 29 4099
English (from outside UK)	+44 (0)207 512 52 02
Finland	+358 (0)203 47 288
France	+33 (0)1 43 62 34 34
Germany	+49 (0)180 52 58 143

Greece	+30 (0)1 619 64 11
Hungary	+36 (0)1 382 1111
Ireland	+353 (0)1 662 5525
Italy	+39 02 264 10350
Netherlands	+31 (0)20 606 8751
Norway	+47 22 11 6299
Poland	+48 22 519 06 00
Portugal	+351 21 317 6333
Russia (Moscow)	+7 095 797 3520
Russia (St. Petersburg)	+7 812 346 7997
Spain	+34 902 321 123
Sweden	+46 (0)8 619 2170
Switzerland	+41 (0)848 80 11 11
Turkey	+90 (216) 579 71 71
United Kingdom	+44 (0)207 512 52 02
Africa/Middle East	
Israel	+972 (0)9 952 4848
Republic of South Africa	+27 (0)86-000-1030

Obtaining Repair Service

To receive warranty repair service

To receive warranty repair service for OmniBook XE3 and Pavilion Notebook Series, contact the appropriate HP Customer Care Center. Check "To call HP for Service and Support" on page 45 for the phone number.

Currently, HP Pavilion Notebook PC service is only provided in the United States.

The support technician will help qualify your unit for warranty repair, based on the warranty applicable to your unit and original purchase date, and will provide you with repair processes. If the HP notebook product is not normally sold and supported by HP in the country of use, it must be returned to a supported country for services. Warranty service may include the cost of shipping, handling, duties, taxes, freight, or fees to or from the service location.

To repair your computer outside the warranty period

If your PC is no longer in the warranty period, contact the appropriate Customer Care Center. The HP support person will let you know about repair charges and processes.

To prepare your computer for shipment

1. **Important.** Back up the contents of your hard disk drive to floppy disks, tape, or a network drive.

   While your computer is being repaired, the hard disk may be replaced or reformatted.

2. Hewlett-Packard cannot guarantee the return of removable components. Please remove the following before you send your computer for service:

   - PC cards

   - AC adapter and power cord

   - CDs in the CD player

   - floppy disks in the floppy disk drive

3. When shipping your computer to Hewlett-Packard, please use the original product packaging or other substantial packaging in order to avoid damage in transit. Make sure to wrap at least 3 inches of protection around the unit and the courier will put it into one of their boxes.

HP recommends that you leave the hard disk drive in the computer when you send it for repair. When the computer is returned, you can restore your data from the backup you made. If you nevertheless want to remove the hard disk drive for this (or some other) reason, see "Removing and Reinstalling the Hard Disk Drive" on page 60.

Solving Problems with Your Computer

Troubleshooting Techniques

This section contains solutions to a few common problems and troubleshooting techniques for your HP notebook PC. Here in the *Startup Guide,* you will find suggestions about situations that might occur when you cannot access information on your computer. A more complete set of troubleshooting solutions and techniques is in the electronic *Reference Guide*.

Display problems

If the computer is on, but the screen is blank

- Try pressing Fn+F2 or Fn+F4 to increase the brightness.

- Press Fn+F5 in case the internal display was disabled. (Do this three times to return to the state you started from.)

- If the computer is cold, allow it to warm up.

If the screen is difficult to read

- Check whether the display resolution is set to its default setting—800×600 for 12" TFT and 13" HPA displays or 1024×768 for 13", 14", and 15" TFT displays.

  1. Click Start, Settings, Control Panel.

  2. Double-click Display.

  3. Click the Settings tab.

If part of the Windows desktop is not visible and you have to scroll down to see the taskbar

- Your display resolution may be set to a higher resolution than your display is capable of showing.

  1. Click Start, Settings, Control Panel.

  2. Double-click Display.

  3. Click the Settings tab.

  4. Move the Screen area arrow to 800×600 pixels if you have a 12" display, 1024x768 if you have a 13", 14", or 15" display.

5. Click OK.

If the Windows desktop does not fill the entire display and you have a black border surrounding the Windows desktop

- Enlarge the screen area (Control Panel, Display, Settings tab, move arrow under Screen area);

If an external display does not work

- Check the connections.

- Press Fn+F5 in case the external monitor was disabled. (Do this three times to return to the state you started from.)

- The external monitor may not be detected. In the BIOS Setup utility, try setting Video Display Device to LCD/CRT in the Main menu.

You may also want to test the display with diagnostics. See "Testing Hardware Operation" in the *Reference Guide.*

Power and battery problems

If the computer turns off immediately after it turns on

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

If the computer keeps beeping

- The computer beeps for 15 seconds when the battery is low. Save your work, shut down Windows immediately, and insert a charged battery or plug in the AC adapter.

If the computer has a short operating time

- Try conserving power by setting power timeouts to shorter periods. In Windows, you can adjust these settings in the Power Management (or Power Options) Properties window in Control Panel.

- If you are running any applications with an automatic save feature, such as MS Word for Windows, you can extend the save time or disable this feature to reduce hard disk access.

- If the operating time has become shorter and the battery is more than a year or two old, you may need to replace the battery.

- Set the display brightness to the lowest comfortable level.

- Heavy modem use can affect battery operating time.

- PC card use can affect battery operating time.

If the battery doesn't charge

- Make sure the AC adapter is plugged into the power source and that the light on the adapter is on.

- If you're using a power strip, remove the AC adapter from the power strip and plug it directly into a wall outlet.

- Check that the battery is fully installed and locked in place.

- Turn off the computer, then check that the battery contacts are clean and that the AC adapter cables are fully plugged in.

- Move the computer away from any nearby heat source. Unplug the AC adapter and allow the battery to cool down. An elevated battery temperature prevents charging.

- If another battery is available, try it.

- If another AC adapter is available, try it.

If the Time Remaining percentage for the battery is not correct

- The Time Remaining value on the power (battery) icon is an estimate based on your current usage, not a precise value.

If the computer stops responding

- Press Ctrl+Alt+Del to end the application that is not responding.

- Slide the power switch to the left, hold it for at least five seconds, and release it to turn off the computer. Then slide the power switch again to turn the computer back on.

- If nothing happens, insert a paper clip into the system-off button on the left side of the computer. Then slide the power switch to turn the computer on.

If the computer doesn't standby as expected

- If you have a connection to another computer, the computer doesn't standby if the connection is actively in use.

- If the computer is performing an operation, it normally waits for the operation to finish.

You may also want to test the power management system with diagnostics. See "Testing Hardware Operation" in the *Reference Guide.*

Startup problems

If the computer doesn't respond at turn-on

- Connect the AC adapter.

- Slide the power switch to try turning on the unit.

- Use the system-off button to reset the computer.

- If you get no response, remove the battery and AC adapter, remove any PC cards, and undock the computer—then plug in the AC adapter and try resetting.

- If you still get no response, call HP for assistance.

If the computer doesn't boot from battery power

- Make sure the battery is properly inserted and fully charged.

- Check battery contacts.

- If another battery is available, try it.

If the computer doesn't boot from the floppy disk drive

- Check the boot order in the BIOS Setup utility.

    1. Click Start, Shut Down, Restart.

    2. When you see the HP logo, press F2 to start the BIOS Setup utility.

    3. Tab to the Boot menu. The default boot order is (1) Hard Drive, (2) Floppy Drive, and (3) CD-ROM/DVD Drive.

    4. Select Floppy Drive for first boot device.

    5. Exit the BIOS Setup utility.

Standby and resume problems

If the computer takes a long time to resume after being on standby

- In Windows, the computer can take a minute or longer to resume when a network card is installed. While the operating system is loading drivers and checking hardware and network connections, you will see a blinking cursor on your display. As soon as the hardware has been reinitialized, the Windows desktop will appear.

If the operating system hangs after you have gone on standby or resumed

- Your system may hang if you dock or undock your notebook while you are in the process of going on standby or resuming the computer. Make sure your computer has completely finished going on standby or completely resumed before you dock or undock it.

Testing Hardware Operation

The DiagTools program provides two levels of testing:

- Automated testing using the basic hardware test.

- Advanced testing using individual hardware tests.

The tests are designed to run after the system reboots. This ensures that the computer will be in a predictable state, so the diagnostic program can properly test the hardware components. The tests are nondestructive and are intended to preserve the state of the computer. The computer reboots when you exit the program, so that drivers can be loaded.

To run the diagnostic test

1. Reboot the computer and, when you see the HP logo, press F10.

2. When you see the initial diagnostics screen, press F2 twice to continue.

3. When the hardware detection finishes, check the list of detected hardware.

   If a device is not detected or fails its test, it may be configured incorrectly in the BIOS. You can confirm the problem by running BIOS Setup utility and checking the settings.

4. Press F2 twice to run the basic hardware test.

5. If you want to run additional hardware tests, press F2 twice. From the advanced test screen, select and run the appropriate tests. Tests are not listed if no such hardware is detected. Press the following keys to run tests:

Enter	Runs the highlighted test.
F5 or Space	Marks or unmarks the highlighted test.
F6	Marks or unmarks all tests in the current menu.
F7	Marks or unmarks all tests in all menus.

6. When you have finished running advanced tests, press Esc to exit.

7. If you want to view or save system and test information, press F4 repeatedly (twice if you are at the advanced test screen, three times from the basic test screen) to create a Support Ticket log file. (You will need a blank floppy disk to save the Support Ticket—or you can save it on the hard disk by following onscreen instructions.)

8. If you want to view the Support Ticket, press F7.

9. Press F3 twice to exit and reboot.

Recovering and Reinstalling Software

You can use the Recovery CD to recover an original build. If you need to recover a specific application, you can reinstall the software directly from your hard drive; for instructions, see "To recover an application" in the *Reference Guide*.

The Recovery CD provides the HP notebook–specific Windows drivers to configure your custom system. You can find drivers:

- On the hard drive under c:\hp\drivers.

- On the Recovery CD, under \hp\drivers.

- On the HP notebook website at www.hp.com/notebooks. This website contains the latest updates of software drivers for your computer.

To recover the factory installation of your hard disk

The following procedure describes how to recover the original Windows software and operating system that came with your computer.

CAUTION

This procedure will format the hard disk drive. After the hard disk drive is formatted, you'll need to reinstall any applications. Reformatting the hard disk drive will erase all data on the disk.

1. Back up all data from your hard disk.

2. Connect the AC adapter to the computer.

3. Insert the bootable Recovery CD in the CD-ROM drive.
   If the computer is turned off, you must insert a straightened paper clip into the hole on the front of the drive in order to open it.

4. Reboot and, when you see the HP logo, press Esc.

5. Select the CD-ROM drive as the first boot device and reboot.

You can find more details about recovering the factory installation of Windows on the Recovery CD: the file readme.txt is in the CD's root directory.

The recovery process can take about 10 or 15 minutes. *Do not interrupt the process or unplug the AC adapter until the process is completed.*

Removing and Reinstalling the Hard Disk Drive

Removing the hard disk drive is not a simple task since, to improve stability, the drive is located in the middle of the computer. If you do need to remove it, HP recommends that you back up your data and allow a qualified service person to do it. If you decide to remove the drive yourself, follow these instructions carefully.

If you decide to remove the hard disk drive

1. Shut down the computer, unplug the AC adapter, and remove the battery.

2. Close the display, and from the rear of the computer remove the two Phillips screws from the back of the plastic hinge covers.
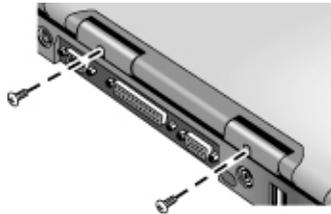
3. Lean the display backward as far as possible, so that it is out of the way.

CAUTION

Do not touch metal surfaces inside the computer until they have cooled off, especially if the computer has just been running.

4. Carefully pry up the plastic cover above the keyboard at the hinges, using a flathead screwdriver, and remove it.

5. Unscrew the four Phillips screws at the top of the keyboard. (They remain attached to the keyboard.)
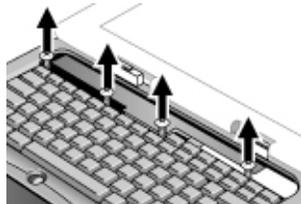
WARNING

Handle the hard drive by its edges only, since static electricity can permanently damage computer parts. Before touching the interior of the computer, discharge static electricity by touching the metal shielding around the connectors on the rear of the computer.

6. Slide the keyboard backward to detach it, then tilt it forward and turn it upside down. (Keep the keyboard cable attached.)
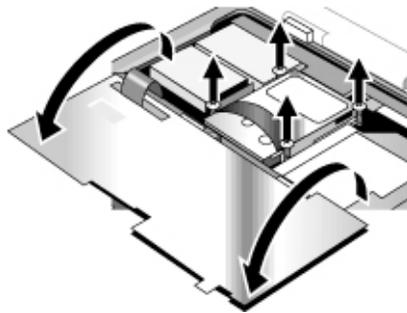
7. Unscrew the four Phillips screws from the sides of the hard disk drive case. (They remain attached to the case.)

8. Tilt up the rear of the hard disk drive case and, pulling gently by the strap, detach it from the connector and lift it out of the computer.

To install the hard disk drive again

If you have removed the hard disk drive when you shipped the computer for service or for some other reason, here's how to install it again:

1. Unplug the AC adapter and remove the battery.

2. Close the display, and from the rear of the computer remove the two Phillips screws from the back of the plastic hinge covers.

3. Lean the display backward as far as possible, so that it is out of the way.

4. Carefully pry up the plastic cover above the keyboard at the hinges, using a flathead screwdriver, and remove it.

5. Unscrew the four Phillips screws at the top of the keyboard. (They remain attached to the keyboard.)

6. Slide the keyboard backward to detach it, then tilt it forward and turn it upside down. (Keep the keyboard cable attached.)

7. **Important.** Move the wires to the left of the drive location out of the way.

8. Tilt up the rear of the hard disk drive you want to install and—rocking it carefully side to side—push the drive forward into the connector.

9. Fasten the hard disk drive with the four attached Phillips screws in the sides of the case.

10. Tilt the keyboard back, slide the flanges on the front edge forward into the slots, and fasten the keyboard with the four attached Phillips screws at the top.

11. Replace the plastic cover that is above the keyboard, front edge first.

12. Hold both hinge covers and snap the plastic cover in place. If necessary, push downward at each end of the cover to secure it.

13. Close the display and replace the two screws at the rear of the hinge covers.

14. Insert the battery, connect the AC adapter, and press the reset button.

15. If necessary, restore the original Windows software and operating system with the Recovery CD.

Specifications and Regulatory Information

Hardware and Software Specifications

You will find detailed information about your computer's hardware and software specifications in the *Reference Guide.* For the most up-to-date information on HP notebook PC specifications, go to the HP notebook website at www.hp.com/notebooks.

Safety Information

Power Cords

The power cord supplied with the notebook AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area. However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement AC adapter, contact your local Hewlett-Packard dealer or sales office.

Country	Rated Voltage and Current	HP Part Number
Canada Mexico Philippines Taiwan United States	125 Vac (3 A)	8120-6313
Europe Egypt Israel Saudi Arabia	250 Vac (2.5 A)	8120-6314
Hong Kong Singapore United Kingdom	250 Vac (2.5 A)	8120-8699
Australia New Zealand	250 Vac (2.5 A)	8120-6312
Japan	125 Vac (3 A)	8120-6316
India South Africa	250 Vac (2.5 A)	8120-6317
People's Republic of China	250 Vac (2.5 A)	8120-8373

Battery Safety

Note

The following batteries are compatible only with selected HP notebook computers:
– HP F2109/NiMH
– HP F2024A/LiIon 9-cell
– HP F2193/LiIon 6-cell
While your computer may be shipped with any of these batteries, only the
HP F2024A/LiIon 9-cell battery is available as a replacement after purchasing your
notebook.

- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal
  object to touch the battery contacts.

- The battery pack is suitable for use only with compatible HP notebook models. Check
  the "Support and Service" section of this *Startup Guide* for your local HP contact.

- Do not disassemble. There are no serviceable parts inside. Do not dispose of the
  battery pack in fire or water.

- Handle a damaged or leaking battery with extreme care. If you come in contact with
  the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush
  the eye with water for 15 minutes and seek medical attention.

- Do not expose the battery pack to high storage temperatures, above 60° C (140° F).

- When discarding a battery pack, contact your local waste disposal provider regarding
  local restrictions on the disposal or recycling of batteries.

- To obtain a replacement battery, contact your local dealer or HP sales office.

- Do not charge the battery pack if the ambient temperature exceeds 45° C (113° F).

- When discarding a battery pack, contact your local waste disposal provider regarding
  local restrictions on the disposal or recycling of batteries.

NL Batterij niet weggooien, maar inleveren als KCA.
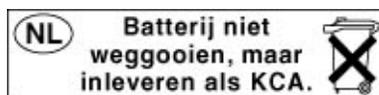
Laser Safety

The CD-ROM and DVD drives used with the HP notebook PC are certified as Class 1 laser devices according to the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard and International Standards IEC 825 / IEC 825-1 (EN60825 / EN60825-1). These devices are not considered harmful, but the following precautions are recommended:

- Ensure proper use by reading and following the instructions carefully.

- If the unit requires service, contact an authorized HP representative—see the "Support and Service" section of this *Startup Guide*.

- Do not attempt to make any adjustment of the unit.

- Avoid direct exposure to the laser beam—do not disassemble the drive.

> CLASS 1 LASER PRODUCT
>
> LASER KLASSE 1

LED Safety

The infrared port located on the back panel of the notebook is classified as a Class 1 LED (light-emitting diode) device according to International Standard IEC 825-1 (EN60825-1). This device is not considered harmful, but the following precautions are recommended:

- If the unit requires service, contact an authorized HP service center—see the "Support and Service" section of this *Startup Guide*.

- Do not attempt to make any adjustment of the unit.

- Avoid direct eye exposure to the infrared LED beam. Be aware that the beam is invisible light and cannot be seen.

- Do not attempt to view the infrared LED beam with any type of optical device.

> CLASS 1 LED PRODUCT
>
> LEDSCHÜTZKLASSE 1 PRODUKT

Regulatory Information

This section presents information that shows how the HP notebook PC complies with regulations in certain regions. Any modifications to the computer not expressly approved by Hewlett-Packard could void the authority to operate the HP notebook PC in these regions.

U.S.A.

The HP notebook PC generates and uses radio frequency energy and may interfere with radio and television reception. The HP notebook PC complies with the limits for a Class B computing device as specified in Part 15 of FCC Rules, which provide reasonable protection against such interference in a residential installation. In the unlikely event that there is interference to radio or television reception (which can be determined by removing the unit's batteries and AC adapter), try the following:

- reorienting or relocating the receiving antenna

- relocating the computer with respect to the receiver

- connecting the computer's AC adapter to another power outlet

Connections to Peripheral Devices

To maintain compliance with FCC Rules and Regulations, use properly shielded cables with this device.

For more information, consult your dealer, an experienced radio/television technician, or the following booklet, prepared by the Federal Communications Commission: *How to Identify and Resolve Radio-TV Interference Problems*. This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4. At the first printing of this manual, the telephone number was (202) 512-1800.

Declaration of Conformity (U.S.A.)

Responsible Party:	Hewlett-Packard Company Manager of Corporate Product Regulations 3000 Hanover Street Palo Alto, CA 94304, U.S.A. +1 (650) 857-1501

declares that the product

Trade name:	Hewlett-Packard Company
Product name:	Notebook PC
Model Number(s):	OmniBook XE3, Pavilion N5*D* series, Pavilion XH*D* series Notebook PC (*D* is any digit 0–9)

complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received,
   including interference that may cause undesired operation.

Canada

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de Classe B prescrites dans le règlement sur le brouillage radioélectrique édicté par le Ministère des Communications du Canada.

European Union

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the public switched telephone network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In event of problems, you should contact your equipment supplier in the first instance.

This equipment has been designed to work in all of the countries of the European Economic Area (Public Switched Telephone Networks). Network compatibility is dependent on internal software settings. Contact your equipment supplier if it is necessary to use the equipment on a different telephone network. For further product support, contact Hewlett-Packard at the phone numbers provided in your *Reference Guide*.

Japan

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＢ情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると受信障害を引き起こすことがあります。
取り扱い説明書に従って正しい取り扱いをして下さい。

Japan Telecommunications Approval

JATE approval number: A00-0143JP, A00-0434JP

Name of Equipment: T18M038.00, T18N040.00

Russia

Продукт сертифицирован в системе ГОСТ Р

Модем сертифицирован в системе ЭЛЕКТРОСВЯЗЬ

International

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Products sold internationally by Hewlett-Packard and its authorized dealers meet the specifications listed on the following pages.

Declaration of Conformity (according to ISO/IEC Guide 22 and EN 45014)

Manufacturer's Name:	Hewlett-Packard Company
Manufacturer's Address:	Hewlett-Packard Company Mobile Computing Division 19310 Pruneridge Ave. Cupertino, CA 95014, U.S.A.

declares that the following product

Product Name:	HP notebook PC
Model Numbers:	OmniBook XE3, Pavilion N5*D* series, Pavilion XH*D* series Notebook PC (*D* is any digit 0-9)
Product Options:	All

conforms to the following product specifications

Safety:	IEC 950: 1991 +A1,A2,A3,A4 / EN 60950: 1992 +A1,A2,A3,A4,A11 IEC 60825-1: 1993 +A1/EN60825-1: 1994 +A11 Class 1 (LED) GB4943-1995

EMC:	CISPR 22: 1993 +A1,A2 / EN 55022: 1994 +A1,1995 +A2: 1997, Class B [1]
	EN 61000-3-2:1995 +A1: 1998 +A2: 1998 / EN 61000-3-3:1995
	GB9254-1988, FCC Title 47 CFR, Part 15 Class B/ANSI C63.4: 1992
	AS/NZS 3548: 1995 Rules and Regulations of Class B
	EN50082-1: 1997
	  EN 61000-4-2: 1995: 4kV CD, 8kV AD, EN 61000-4-3: 1995: 3V/m
	  EN 61000-4-4: 1995: 0.5kV Signal Lines, 1kV Power Lines
	  EN 61000-4-5: 1995, EN 61000-4-6: 1996, EN 61000-4-11: 1994, ENV 50204: 1995

Telecom:	TBR 21: 1998, EG 201 121: 1998
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, amended by 92/31/EEC & 93/68/EEC, and the R&TTE Directive 1999/5/EC (Annex II) and carries the CE marking accordingly. [1] The product was tested in a typical configuration with Hewlett-Packard Personal Computer peripherals. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. The HP F1454A and F1781A ac/dc adapter used with this product is designed to operate on all power systems, other than IT power systems.

Corvallis, OR, January 04, 2001

 C E
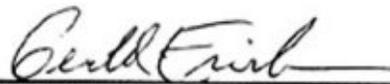
Jerry Erickson, R&D Product Execution Manger

European Contact for regulatory topics only: Hewlett Packard GmbH, HQ-TRE, Herrenberger Straße 130, 71034 Boeblingen, Germany. Fax: +49 7031 143143).
USA Contact: Hewlett Packard Co., Corporate Product Regulations Manager, 3000 Hanover Street, Palo Alto, CA 94304, U.S.A. Phone: +1 (415) 857-1501.

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