
HP OmniBook 7100/7150

Reference Guide

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Introducing the OmniBook

Introducing the OmniBook

Congratulations! Your OmniBook sets a new standard in personal computing. Although it's compact and easy to carry, the OmniBook is infused with the quality and attention to detail that are the hallmark of Hewlett-Packard.

The OmniBook *Quick Start* sheet shows how to get your OmniBook up and running quickly. This *Reference Guide* shows how to set up and operate the OmniBook, and it also shows what to do if you run into trouble.

This table lists other sources of supplementary information about OmniBook products.

Source	Address or Number
Online <i>User's Handbook</i>	This introduces the OmniBook and shows you the OmniBook basics. It also contains troubleshooting information (Start, Programs, OmniBook Library).
Online <i>OmniBook Notes</i>	For late-breaking information available after the manuals were completed, see OmniBook Notes (Start, Programs, OmniBook Library).
The introductory Microsoft manual for Windows 95, Windows 98, or Windows NT.	This is shipped with your OmniBook and contains information about using the standard features of Windows 95, Windows 98, or Windows NT 4.0.
OmniBook website	http://www.hp.com/omnibook http://www.europe.hp.com/omnibook (European mirror)
<i>Corporate Evaluator's Guide</i>	The provides information about installing alternate operating systems, as well as how to configure the OmniBook in a corporate, networked environment. Located at the OmniBook website.
HP Support Assist CD-ROM	See the <i>Support and Service</i> booklet for telephone numbers.

Taking Inventory

The HP OmniBook 7100/7150 represent a new category of HP notebook computers featuring the latest mobile technologies available. They use high-speed Intel Pentium II processors with MMX technology, large TFT displays, and high-capacity hard disk drives.

This chapter describes

- ♦ What's included in the OmniBook shipment.
- ♦ Available OmniBook accessories.
- ♦ Description of OmniBook features.

Included in the OmniBook box

- HP OmniBook 7100 or 7150.
- DVD / floppy disk drive (with the OmniBook 7150).
- or–
CD-ROM / floppy disk drive (with the OmniBook 7100).
- AC adapter (HP F1454A) and power cord.
- Lithium-ion battery (HP F1450A).
- This OmniBook *Reference Guide*.
- Quick Start sheet.
- *Support and Service* booklet.
- *Working in Comfort* booklet.
- List of optional OmniBook accessories.
- OmniBook *Recovery CD*. Includes Windows recovery, operating system drivers and online *User's Handbook*.
- Microsoft Windows 95/Windows 98 manual.
- or–
Microsoft Windows NT 4.0 manual.

To buy OmniBook accessories

Buy OmniBook accessories online! For the latest accessories and options, visit us at <http://www.hp.com/omnibook>. As new accessories become available, you'll find them listed here.

At the time of this printing, HP offers a variety of docking solutions, plugin modules, and other accessories, including the following:

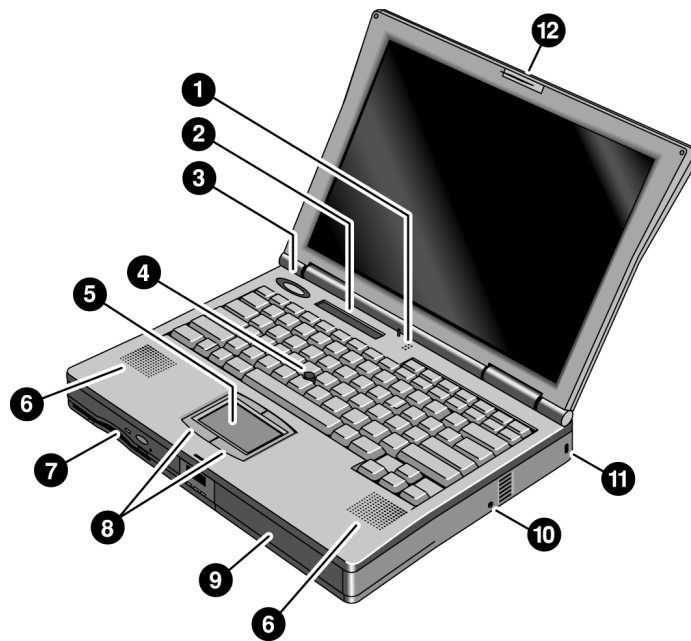
- Docking system and monitor stand (HP F1477A).
- Mini dock (HP F1452A).
- Port replicator (HP F1451A).
- CD-ROM / floppy disk drive (HP F1446A).
- DVD / floppy disk drive (HP F1700A).
- LS-120 drive (HP F1448A).
- Second hard disk drive that you install in the module bay (HP F1701A).
- Lithium-ion battery (HP F1450A).

You can install a second battery in the module bay.

- PC Cards.
- Smart Card.
- Auto / airline adapter (HP F1455A).
- OmniBook carrying case.

OmniBook features

OmniBook—Front View



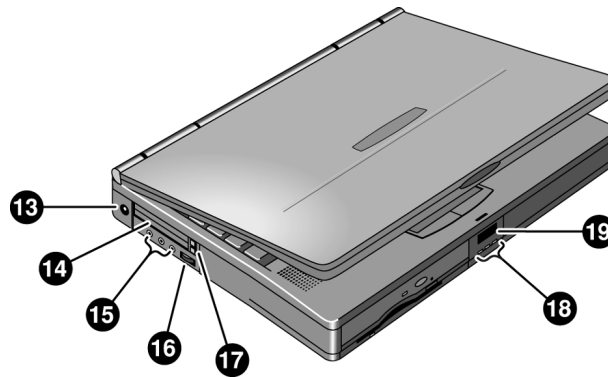
1. Built-in microphone.
2. Status panel.
3. Blue power button (suspends or shuts down the OmniBook).
4. Pointing stick (pointing device).
5. Touch pad (pointing device).
6. Built-in speakers.
7. Plug-in module bay (can contain a DVD / floppy disk drive, CD-ROM / floppy disk drive, LS-120 drive, DVD drive, second hard disk drive, or a second battery).
8. Click buttons (for pointing devices).
9. Main battery.

Introducing the OmniBook

Taking Inventory

- 10. System-off button (to shut down the OmniBook).
- 11. Kensington lock slot.
- 12. Latch to open and close the OmniBook.

OmniBook—Side View



13. AC adapter jack.

14. PC Card slots (upper and lower).

Note

Accepts PC Card Types II or III (PCMCIA and CardBus). On the OmniBook 7150, the lower slot supports Zoomed Video. On the OmniBook 7100, both slots support Zoomed Video.

15. Audio jacks (left to right): audio line-in, external microphone, headphone-out.

16. Volume control wheel.

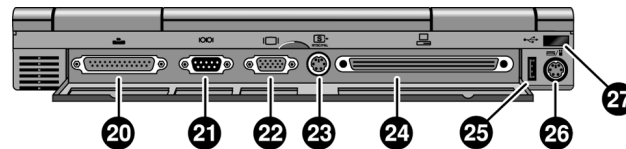
17. PC Card eject buttons (upper and lower PC Card slots). Press once to pop out the button, press again to eject the card, press once more to store the button.

18. Status lights (left to right): power, hard disk, or charging status.

19. Front infrared port. There is a another infrared port on the rear of the OmniBook. Windows NT 4.0 does not support infrared communication.

Use this port for wireless data transmission between the OmniBook and another computer or a printer with an infrared port. You must install infrared drivers.

OmniBook—Back View



- 20. Parallel port (LPT1).
Use this port for a parallel printer.
- 21. Serial port (COM1).
Use this port for a serial mouse, a modem, or a serial printer.
- 22. External monitor port.
- 23. S-video (TV-out) port.
- 24. Docking port (for HP OmniBook docking products).
- 25. Universal serial bus (USB) port. Windows NT 4.0 does not support USB.
- 26. PS/2 keyboard or PS/2 mouse port (supports a standard Y adapter).
- 27. Rear infrared port. There is a another infrared port on the front of the OmniBook. Windows NT 4.0 does not support infrared communication.
Use this port for wireless data transmission between the OmniBook and another computer or a printer with an infrared port. You must install infrared drivers.

Setting Up Windows

The OmniBook has either Windows 95/Windows 98 (you select one or the other), or Windows NT 4.0 factory-installed on the hard disk drive. When your OmniBook starts up the first time, it takes you through a series of setup screens, including installation of the operating system.

This section describes how to set up the OmniBook with the factory-installed Windows operating system.

- ◆ Setting up the OmniBook for the first time.

To set up the OmniBook

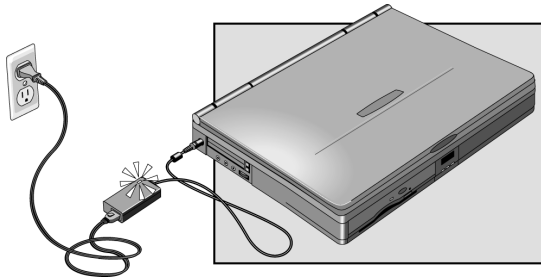
CAUTION

Use only the HP adapter model F1454A with this product. Using any other ac adapter could damage the OmniBook and may void your warranty. Refer to the warranty statement for your product.

1. Install the OmniBook's battery. (See the Quick Start sheet or page 3-7 of this manual).
2. Connect the power cord to the ac adapter, then plug the cord into an ac outlet. The indicator light on the ac adapter shines when the adapter is powered.
3. Connect the ac adapter to the OmniBook's left side, as shown. The OmniBook battery starts charging.

Note

Let the battery charge a full 24 hours to completely charge the internal clock battery. Otherwise, the OmniBook may not keep the correct date and time.



4. Press the blue power button.
The Windows Setup program starts automatically.
5. Follow the instructions as they appear on the screen.
During setup, you will be prompted to accept the License Agreement and enter the Product ID (printed on the Certificate of Authenticity on the Microsoft Windows manual). If you are prompted to set up a user account and password. You can either set up the account, or press ESC to skip this step.

Configuring the OmniBook with the BIOS Setup Utility

The BIOS (Basic Input and Output System) Setup utility is a menu-driven utility that enables you to make changes to the system configuration and tailor the operation of your OmniBook to your individual work needs.

The settings made in the BIOS Setup utility generally control the hardware and consequently have a fundamental effect on how the OmniBook operates.

This section describes the BIOS Setup utility menus and options in detail.

To run the BIOS Setup utility

1. Close all applications, then shut down Windows and restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. The pointing devices are not active in the BIOS Setup utility. Press the RIGHT and LEFT arrow keys to move among menus. Press the DOWN and UP arrow keys to move among parameters in a menu. Press F5 or F6 to move through values for the current parameter or press ENTER to change a setting. See the tables below for more information.
4. After you select the options you want, press F10 or use the Exit menu to exit the BIOS Setup utility.

If the settings cause a conflict between devices during reboot, the system prompts you to run BIOS Setup, and the conflicting settings are marked.

Introducing the OmniBook

Configuring the OmniBook with the BIOS Setup Utility

Main Menu		Default
Language	Sets the language for this utility and for BIOS messages.	English
BIOS Revision	Shows the current BIOS version.	Detected automatically.
System Time	Sets the time using 24-hour format. Values set take effect immediately.	
System Date	Sets the date using dd/mm/yy format (except English, which is mm/dd/yy format).	
Floppy Drive	Sets the floppy drive type.	Floppy disk drive type detected and set automatically.
Internal Hard Disk	Sets the hard disk drive type and various parameters.	Hard disk drive detected and set automatically.
Quiet Boot	When enabled, hides summary of power-on self-test and messages during boot.	Enabled
Video Display Device	Sets whether the built-in display automatically switches to an external display if one is detected.	Auto
Video Expansion	When enabled, the video image covers the entire display in lower resolution modes (SVGA, VGA). When disabled, the video image is centered in the display.	Disabled
Television Type	Sets the format (NTSC or PAL) for video output.	NTSC
Primary Video Adapter	Sets whether the internal (built-in) video adapter automatically switches to an external video adapter connected to the docking system, if one is detected.	Auto
System Memory	Shows the system memory size.	640KB
Extended Memory	Shows the extended memory size.	Detected automatically.

Configuring the OmniBook with the BIOS Setup Utility**System Devices Menu****Default**

PS/2 Pointing Devices	Disables the internal pointing devices when an external PS/2 mouse is connected. This is required for the scroll wheel on a PS/2 mouse to function.	Auto
Internal Pointing Devices	Enables one or both built-in PS/2 devices.	Both
External Fn Key	Sets whether left-CTRL + left-ALT on an external keyboard is interpreted as the Fn key.	Enabled
IDE Controller	Enables the primary (hard drive) and secondary (optional CD-ROM drive) controllers.	Both
FDD Controller	Enables the floppy drive.	Enabled
Serial Port	Sets how the serial port is configured by the BIOS (specified or automatic).	Enabled
Base I/O address	Sets the I/O address and interrupt.	3F8h, IRQ4
Infrared Port	Sets how the infrared port is configured by the BIOS (specified or automatic).	Disabled
Mode	Sets the hardware to support SIR (Standard IR), ASK IR (amplitude shift keyed IR), or FIR (Fast IR) infrared communications. (Driver installation required.)	SIR
Base I/O address	Sets the I/O address and interrupt.	2F8h, IRQ3
DMA channel	For Fast Ir mode, sets the DMA channel.	DMA3
Front/Back	Sets which infrared port is active.	Back
Parallel Port	Sets how the parallel port is configured by the BIOS (specified or automatic).	Enabled
Mode	Sets the port to normal, bi-directional, EPP, or ECP.	ECP
Base I/O address	Sets the I/O address.	378h
Interrupt	Sets the interrupt.	IRQ7
DMA channel	For ECP mode, sets the DMA channel.	DMA3
Audio (OmniBook 7100 only)	Sets how the audio system is configured by the BIOS (specified or automatic).	Enabled
SB I/O address	Sets the Sound Blaster I/O address.	220h

Introducing the OmniBook

Configuring the OmniBook with the BIOS Setup Utility

WSS I/O address	Sets the Windows Sound System I/O address.	530h
AdLib I/O address	Sets the AdLib synthesizer I/O address.	388h
Interrupt	Sets the interrupt.	IRQ5
1st DMA channel	Sets the DMA channel for playback.	DMA1
2nd DMA channel	Sets the DMA channel for recording.	DMA0
MPU Device (OmniBook 7100 only)	Sets how the MIDI capability (hardware wavetable) is configured by the BIOS (specified or automatic).	Disabled
MPU I/O address	Sets the MIDI I/O address.	330h
Interrupt	Sets the interrupt.	IRQ11

Security Menu

Default

User Password Is	Shows if a user password is set.	Clear
Administrator Password Is	Shows if an administrator password is set.	Clear
Set User Password	Press ENTER to set, change, or clear user password. Password length can be no longer than 8 characters, 0-9, A-Z.	
Set Administrator Password	Press ENTER to set, change, or clear administrator password. This password protects BIOS Setup settings.	
Boot	Sets whether a user password is required when the computer boots.	Enabled
Resume*	Sets whether a user password is required when resuming from a suspended state.	Enabled
Undock*	Sets whether a user password is required when undocking the OmniBook.	Disabled
Internal Hard Disk Drive Lock*	Encodes the current user password (or administrator password if that is the only password set), on the internal hard disk drive.	Disabled
Floppy Boot	Sets whether the floppy drive is a boot device.	Enabled
* Resume, Undock, and Internal Hard Disk Drive Lock options are available only if Boot option is enabled.		

Configuring the OmniBook with the BIOS Setup Utility**Power (APM)
Menu*****Default**

Power Management Mode	Disables time-outs, selects a combination of time-outs, or allows customized time-outs.	Max Power Savings
Smart CPU Mode	Enables automatic CPU power savings. Absence of keyboard, mouse, and hard disk activity could cause slower CPU response.	Off
Standby Time-out	Sets the period of inactivity after which the computer goes from On to Standby power mode.	2 minutes
Suspend Time-out	Sets the period of inactivity after which the computer goes from Standby to Suspend power mode. (Skips Standby mode if that time-out is disabled.)	4 minutes
Hibernate Time-out	Sets whether the computer goes from Suspend to Hibernate power mode after the indicated period of inactivity. (Skips Suspend mode if that time-out is disabled.)	4 hours
Hard Disk Time-out	Sets the period of hard disk inactivity after which the hard disk stops spinning. Also affects a hard disk drive in the plug-in module bay.	2 minutes
Time-out on AC	Sets whether power management time-outs occur while the ac adapter is connected.	Disabled
Power Button Mode	Sets the action of the blue power button when pressed for less than 4 seconds.	Suspend
Lid Switch Mode	Sets the action when the OmniBook lid closes.	Turn off LCD
Resume on Serial Ring	Sets whether the system resumes from Suspend if a ring signal is received.	Enabled
Resume on Time of Day	Sets whether the system resumes from Suspend at a defined time of day.	Disabled
Resume Time	Sets the 24-hour time when the system resumes from Suspend if enabled.	
Auto Suspend on Undock	Sets whether the OmniBook suspends after undocking.	When Lid Closed
Auto Turn-on on Dock	Sets whether the OmniBook turns on after docking.	Enabled
* If you are using Windows 98 and have installed ACPI power management, the ACPI settings override settings in the Power menu.		

Introducing the OmniBook
Configuring the OmniBook with the BIOS Setup Utility

Boot Menu

Default

Diskette Drive Hard Drive CD-ROM/DVD Drive	Shows the order of boot devices. Move the entries to change the order.	1. Diskette drive 2. Hard drive 3. CD-ROM/DVD drive
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Exit Menu

Save Changes and Exit	Saves Setup changes, exits, and reboots.	
Discard Changes and Exit	Discards Setup changes since last save, exits, and reboots. Does not affect Security, date, or time changes.	
Get Default Values	Restores default settings, stays in Setup. Does not affect Security, date, or time changes.	
Load Previous Values	Discards Setup changes since last save, stays in Setup. Does not affect Security, date, or time changes.	
Save Changes	Saves Setup changes, and stays in Setup. Security settings are saved when changed.	

Configuring the OmniBook with TopTools

HP TopTools is for network managers and administrators with responsibilities for computer system management. It offers configuration and security options that allow you to check what hardware and software components are installed on your computer and how well they are working. This section describes how to

- ◆ Install and run TopTools.
- ◆ Get more information about TopTools.

To install TopTools

The TopTools package is included with the OmniBook, but you must install it before you can use it. *On Windows NT systems, you will need administrator privileges to install TopTools software.*

1. Start Windows, if it is not already running.
2. Click Start, Programs, HP DMI, Setup.

To run TopTools

TopTools may be run locally on a PC or remotely by a network administrator.

- To run TopTools locally, click Start, Programs, HP DMI, HP TopTools.

To get more information about TopTools

For information on manageable HP PCs, HP TopTools, DMI, and how they lower PC operating costs, see the HP website at <http://www.hp.com/toptools>.

Operating the OmniBook

Operating the OmniBook

This chapter introduces the OmniBook and helps you get familiar with basic operation, including

- ♦ Starting and stopping the OmniBook.
- ♦ Using the OmniBook pointing devices.
- ♦ Managing pointing devices.
- ♦ Using the OmniBook display.
- ♦ Adjusting the audio system.
- ♦ Using the OmniBook keyboard.
- ♦ Checking the status of the OmniBook.
- ♦ Protecting the OmniBook.

Starting and Stopping the OmniBook

You can easily start and stop your OmniBook using the blue power button. However, at certain times, you may want to use other methods for starting and stopping your OmniBook—depending on power considerations, types of active connections, and start-up time.

To start and stop the OmniBook

When you	The OmniBook enters	To turn on again
Press Fn+S* —or— allow time-out.	Standby Mode Saves minimal power. Turns off the display only. Restarts quickly. Maintains network connections.	Press any key or move a pointing device to display your current session ("Instant-On").
Press blue power button —or— click Start, Suspend** —or— allow time-out.	Suspend Mode Saves significant power. Turns off the display. Saves current session to RAM. Restarts quickly. May restore network connections.***	Press the blue power button to display your current session ("Instant-On").
Press Fn+F12 —or— allow time-out.	Hibernate Mode Saves maximum power. Saves current session to disk, shuts down. May restore network connections.***	Press the blue power button to restart and restore your previous session.
Click Start, Shut Down (recommended) —or— Press and hold the blue power button until the display shuts down.	Off Mode Saves maximum power. Turns off without saving current session. At startup, resets everything, starts a new session, and restores network connections.	Press the blue power button to restart with a new session.
* Windows NT and Windows 95 only. In Windows 98, Fn+S suspends the OmniBook. ** Windows 95 only. In Windows 98, click Start, Shutdown, Standby to suspend the OmniBook. *** A plug-and-play operating system, such as Windows 95 or Windows 98, can restore network connections when you turn on the OmniBook. For Windows NT 4.0 or a different operating system, you may have to reset the OmniBook or restart the operating system to restore them.		

To reset the OmniBook

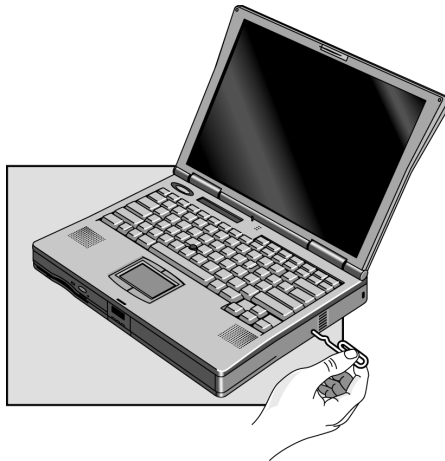
If Windows or the OmniBook stops responding, you can reset the OmniBook and restart Windows.

1. If possible, shut down Windows.
2. Press and hold the blue power button until the display shuts down.

—or, if this fails—

Insert a pen or straightened paper clip into the recess on the right side of the OmniBook, as shown.

3. After the computer shuts down, press the blue power button to turn it on.



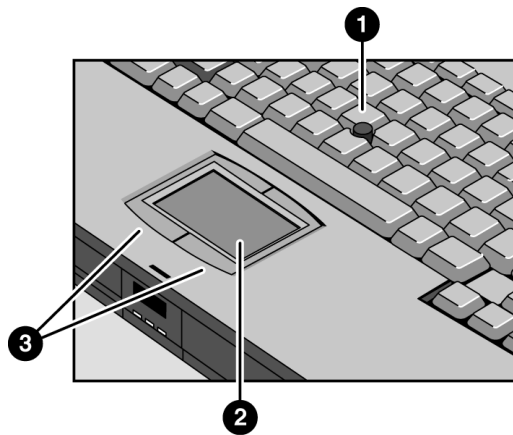
Using the OmniBook Pointing Devices

Two pointing devices (pointing stick and touch pad) are built into your OmniBook. The default pointing device driver (PS/2 TrackPoint), supports the enhanced features of the pointing stick and *basic* features of the touch pad.

You can customize the OmniBook to support enhanced touch pad features. If you do this, keep in mind that you are selecting enhanced features for the touch pad only. *You cannot activate enhanced features for both simultaneously.*

This section describes how to

- Use the built-in pointing devices.
- Activate full touch pad capabilities.
- Activate full pointing stick capabilities.
- Configure pointing devices.



1. Pointing stick (pressure-sensitive pointing device).
2. Touch pad (touch-sensitive pointing device).
3. Click buttons.

Both pointing devices use these click buttons, which work like the right and left buttons on a standard mouse. What the buttons do depends on the software being used.

To use the built-in pointing devices

1. Place your hands in the typing position.
2. **Pointing stick.** With your index finger, press the pointing stick in the direction you want the pointer to move. Pressing away from you moves the pointer up the screen; pressing toward you moves the pointer down the screen.
Touch pad. Move a thumb or finger across the touch pad in the direction you want the pointer to move.
3. Use the left and right click buttons, which function like the left and right buttons on a mouse, to make your selection.
 - To open an application, move the pointer over the icon, then press the left button twice rapidly.
 - To make menu selections, move the pointer to the item and press the left button once.
 - To open the shortcut menu for an item, move the pointer over the item and click the right button.
 - To drag an item, move the pointer over the item. Press *and hold* the left button while you move the pointer to the new location. Release the button.

To activate full touch pad capabilities

The built-in pointing stick driver supports only basic touch pad features. To activate full touch pad capabilities, you have to

- Remove the pointing stick driver and select a new mouse driver.
- Disable the pointing stick.
- Install touch pad support.

1. Select a new mouse driver and remove the pointing stick driver

1. From the Start menu, click Settings, Control Panel.
2. Double-click Add/Remove Programs and remove IBM TrackPoint Support.
3. Double-click Mouse, then click General.
4. Click Change and then select Show All Devices.
5. Under Manufacturers, click Standard Mouse Types.
6. Under Models, change the mouse type to Standard PS/2 Port Mouse, then click OK.
7. Click Yes to any questions.

2. Disable the pointing stick

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Select the System Devices menu.
4. Highlight Internal Pointing Devices and select Touch Pad.
5. Press F10 to save and exit.

3. Install touch pad support

- Run C:\Omnibook\Drivers\Touchpad\Setup.exe.

To activate full pointing stick capabilities

If you have activated full touch pad capabilities, you can use this procedure to switch back to full pointing stick capabilities. You'll need to do the following:

- Remove the touch pad driver (Windows 95 or Windows 98).
- Enable the pointing stick.
- Install pointing stick support.

1. Remove the touch pad driver

- From Control Panel, click Add/Remove Program and remove touch pad support.

2. Enable the pointing stick

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Select the System Devices menu.
4. Highlight Internal Pointing Devices and select Pointing Stick. (Choose Both if you want basic touch pad features available.)
5. Press F10 to save and exit.

3. Install pointing stick support

- From Control Panel, open Mouse, General and change the mouse type—click Have Disk and point to the directory listed below and select PS/2 TrackPoint.
c:\omnibook\drivers\trackpnt.

To configure pointing devices

- To customize the operation of all pointing devices (pointing stick, touch pad, and external PS/2 or serial mouse), in Control Panel open Mouse. You can change left and right button actions, double-click speed, pointer speed and trail, and more.
- To customize special pointing stick features, click the pointing stick icon on the taskbar or open TrackPoint in Control Panel.

Using the OmniBook Display

This section describes

- ◆ How to adjust the display brightness.
- ◆ How to extend the life of the display.
- ◆ How to configure the display lid switch.

To adjust the display brightness

The OmniBook uses special key combinations, called hot keys, to control brightness.

- Press Fn+F1 to decrease the brightness.
- Press Fn+F2 to increase the brightness.

Hint

To maximize your battery operating time, set the brightness to the lowest comfortable setting, so that the internal light uses less power.

To extend the life of the display

Observe the following guidelines to maximize the life of the backlight in the OmniBook display.

- Set the brightness to the lowest comfortable setting (Fn+F1).
- When working at your desk, connect an external monitor and turn off the internal display (Fn+F5).
- Avoid using a screen saver or other software that prevents the OmniBook from changing to Suspend or Standby mode after a time-out period.
- Do not disable Suspend or Standby time-outs.
- If you are using ac power and have no external monitor attached, change to suspend or standby when not in use.

To suspend the OmniBook when closing the display

By default, the OmniBook display turns off when you close the display lid. You can change this setting to suspend the OmniBook when you close the display lid.

1. Close all applications, then shut down Windows and restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Power menu, choose Lid Switch Mode.
4. Choose one of the following options:
 - **Turn off LCD.** Closing the lid turns off the display (default). Open the lid to turn on the display again.
 - **Suspend.** Closing the lid suspends the OmniBook and increases power savings. Press the blue power button to turn on the display again.
5. Press F10 to save and exit the BIOS Setup utility.

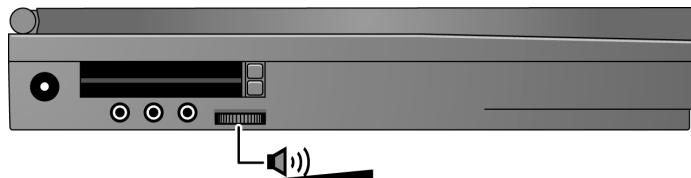
Adjusting the Audio System

The OmniBook supports Sound Blaster Pro-compatible sound and the Microsoft Windows Sound System. This section describes

- How to adjust the volume manually.
- How to adjust the volume in Windows.

To adjust the volume manually

- To increase the volume, press Fn+UP-ARROW.
-or-
Roll the volume control wheel towards the front of the OmniBook.
- To decrease the volume, press Fn+DOWN-ARROW.
-or-
Roll the wheel towards the rear of the OmniBook.



To adjust the volume in Windows

1. Click the speaker symbol in the taskbar.
2. Drag the volume control bar up or down to adjust the volume.

Using the OmniBook Keyboard

W A R N I N G

Improper use of keyboards and other input devices has been associated with ergonomic injury. For information about reducing your risk, see the “Working in Comfort” document shipped with your OmniBook, or visit our ergonomics website, <http://www.hp.com/ergo>.

This section describes the OmniBook’s keyboard features, including how to

- ◆ Use the Fn hot keys.
- ◆ Use the Windows keys.
- ◆ Use the embedded keypad.
- ◆ Use the ALT GR key on a non-US keyboard.

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. The OmniBook keyboard shows the Fn *hot keys* labeled in gray.

Pressing these keys	Does this
Fn + F1	Decreases the display's brightness.
Fn + F2	Increases the display's brightness.
Fn + F5	Switches among the built-in display, an external display, and simultaneous displays.
Fn + F6 (hold)	For use with two batteries: Briefly displays the individual battery status for each battery, then resumes displaying the combined battery status. For complete information about battery status, see page 2-18.
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.
Fn + F12	Enters Hibernation mode.
Fn + S	Enters Standby mode in Windows NT or Windows 95. Enters Suspend mode in Windows 98.
Fn + R	Enters Suspend mode.
Fn + F	Toggles between front and rear infrared ports. A light turns on behind the front infrared lens when the front port is selected. Windows NT 4.0 does not support infrared communication.
Fn + Nm Lk	Toggles Scroll Lock on and off.
Fn + Up Arrow	Increases the volume.
FN + Down Arrow	Decreases the volume.

To use the Windows keys

There are two Windows keys on the keyboard.



The one next to the Fn key brings up the Windows Start menu.



The one at the top center of the keyboard brings up the shortcut menu for the current application. This is the same menu that appears when you click the right mouse button while pointing at the application.

To use the embedded keypad

When the embedded keypad on the OmniBook's built-in keyboard is active, two options are possible.

Num Lock on Keys change to the smaller numeric and arithmetic designations on the keys.

Num Lock off Keys change to cursor control keys.

To identify the icons that show the status of Num Lock and the embedded keypad, go to page 2-18.

1. Press Nm Lk to turn Num Lock on or off.
2. Press Fn+F8 to turn on the embedded keypad.

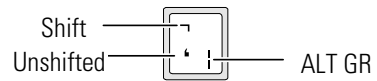
—or—

To temporarily turn on the embedded keypad, hold Fn while typing a key.

To use the ALT GR key

Non-U.S. keyboards have an ALT GR key to the right of the spacebar. This is a shift key providing access to certain keyboard characters.

- For a character in the lower-right corner of a key, press and hold ALT GR to type the character.

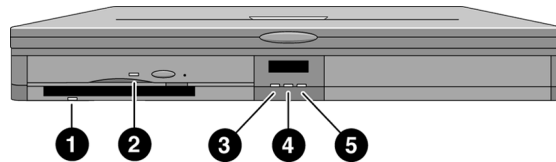


Checking the Status of the OmniBook

This section describes the status lights and the status panel indicators.

To interpret the status lights

The OmniBook has status lights that report power status and drive activity. When the DVD / floppy disk drive or the CD-ROM / floppy disk drive is installed in the module bay, the following lights are present on the front of the OmniBook.



1. Floppy disk drive light.
 - Steady green light. OmniBook reading from or writing to floppy disk drive.
2. DVD or CD-ROM drive light.
 - Steady green light. OmniBook reading from DVD or CD-ROM drive.
3. Power status light.
 - Steady green light. OmniBook is on.
 - Steady amber light. OmniBook is in Suspend or Standby mode.
 - No light. OmniBook is in Off or Hibernate mode.
 - Green and amber lights. OmniBook failed when resuming. Reset the OmniBook.
4. Disk drive activity light.
 - Steady green light. OmniBook reading from or writing to the hard disk drive.
5. Charging status light.
 - Steady green light. The ac adapter is connected and battery is full or has stopped charging.
 - Blinking green light. The ac adapter is connected and battery is charging.
 - No light. The ac adapter is not connected or the battery is not installed.

To interpret the status panel indicators

The OmniBook status panel, located above the keyboard, contains indicators that show the current power status, drive status, and keyboard status.

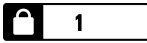
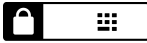
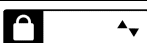
Power Status Icons

Indicator	Meaning
	AC power. The ac adapter is connected.
	Battery status. Shows the approximate charge level of the battery relative to a full charge. Each bar (displayed from right to left), represents a 10% charge. Battery presence. The upper and lower triangles indicate the presence of main (upper) and second (lower) batteries. A triangle blinks slowly when that battery is charging. The main battery charges first, discharges last. If two batteries are installed, the gauge reports the percent of total charge. For example, if the main battery is 50% and the second battery is empty then the gauge would read 25%. You can press <i>and hold</i> Fn + F6 at any time to see the status of each individual battery.
	Battery low. No battery bars showing; the triangles indicate the presence of battery. The OmniBook also beeps.
	Defective battery. No battery bars showing and no triangles indicating presence of battery. No charging even though ac power is present.

Drive Status Icons

Indicator	Meaning
	Drive activity. The OmniBook is accessing either the hard disk drive or any of the following drives in the module bay: CD-ROM drive, DVD drive, LS-120 drive, or second hard disk drive.
	Floppy disk drive. The OmniBook is accessing the floppy disk drive.
	PC Card. There is activity between the PC Card and the computer. (For the OmniBook 7150, the indicator stays on if a CardBus PC Card is installed.)

Keyboard Status Icons

Indicator	Meaning
	Caps Lock. Caps Lock is active.
	Num Lock. Num Lock is active.
	Keypad Lock. The built-in embedded keypad is active (Fn+F8). Num Lock must also be on for the numeric keys. Otherwise, cursor keys are active.
	Scroll Lock. Scroll Lock is active.

Protecting the OmniBook

Your OmniBook provides several ways for you to identify and protect your computer. This section describes how to

- Set or change a password.
- Delete a password.
- Install McAfee VirusScan.
- Attach a security cable.
- Set unique PC identification.
- Enable drive lock protection.

To set or change a password

The OmniBook provides two levels of password protection—user password protection and administrator password protection. *You cannot set the user password until you set an administrator password.*

If password protection is set, then you will be prompted to enter a password whenever you reset or turn on the computer (depending on your setting). You cannot use the computer until you enter the correct password.

To set, change, or delete password protection for this OmniBook, use the BIOS Setup utility.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Select the Security menu.
4. Select Set Administrator Password, then press ENTER.
5. Type the new password, then press ENTER. The password can contain up to eight alphanumeric characters, and it is not case-sensitive.
6. Type the password again to confirm, then press ENTER.
7. Under Password Required To, choose when the password will be required.
 - Select Boot to require password when booting the OmniBook.
 - Select Resume to require password when resuming from Suspend.
 - Select Undock to require password when undocking the OmniBook.
8. If desired, repeat this procedure for Set User Password.
9. Press F10 to Save and Exit the BIOS Setup utility.

Note

If you forget a password, call Customer Support at the number listed in the *Support and Service* booklet to determine the proper removal procedure.

To delete a password

You can use this procedure to delete either a User or an Administrator password. If you delete an administrator password, the OmniBook automatically deletes the user password as well.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Select the Security menu.
4. Select Set Administrator Password, then press ENTER.
5. Type the current password, then press ENTER.
6. Press ENTER at the Enter New Password prompt.
7. Press ENTER at the Confirm New Password prompt.
8. Press Continue.
9. Press F10 to Save and Exit the BIOS Setup utility.

To install the McAfee VirusScan utility

The OmniBook comes equipped with the McAfee VirusScan utility. Before you can use McAfee VirusScan, you need to install it.

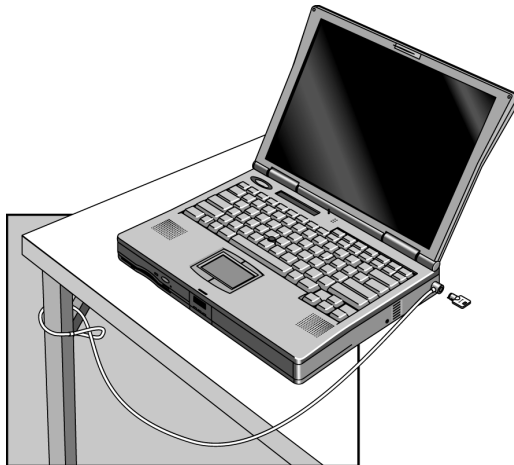
1. From the Start menu, click Programs, McAfee VirusScan, Setup.
2. Follow the instructions as they appear on the screen.

Once installed, you can get detailed online instructions under McAfee VirusScan Help. (Click Start, McAfee VirusScan, Help.)

To attach a security cable

Your OmniBook has a built-in connector that allows you to secure the OmniBook with a cable. The Kensington MicroSaver lock system works with this connector and is available at many computer stores.

1. Wrap the cable around a stationary object, such as a table leg.



2. Loop the cable to create a slip knot around the stationary object—make sure it can't slip off.
3. Insert the lock into one of the OmniBook security connectors and release the key. Store the key in a safe place away from the OmniBook.

To set PC identification

You must have administrator password authority to set a PC identification number.

1. If you have not already installed HP TopTools, do so now (page 1-16).
2. Click Start, then click HP TopTools.
3. Click Tools, then click Protect Tools.
4. Type your administrator password, then press Enter.
5. Click Security.
6. In the "Tattooing String" box, type the unique set of characters which will identify your PC. You can type up to 80 characters including spaces and special characters. Do not press ENTER when typing. The string wraps automatically.

To enable hard disk drive lock

Hard disk drive lock helps you keep your information secure. *Hard disk drive lock does not protect a second hard disk drive installed in the module bay.*

CAUTION

When you enable hard disk drive lock, the current user password (or administrator password if that is the only password set) is encoded on the hard disk drive.

If you move the hard disk drive to another OmniBook, you can't access the drive until you set the user (or administrator) password to match the drive's password. After you match the drive's password, you can change the OmniBook (and drive) password. If you forget the password, you cannot recover your data.

-
1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the Security menu, enable Password Required To Boot.
 4. From the Security menu, enable Hard Disk Drive Lock.
 5. Press F10 to save and exit the BIOS Setup utility.

Managing Battery Power

Managing Battery Power

The OmniBook conserves power by using Advanced Power Management (APM) software that controls battery charging and power drain.

If you're using **Windows 95** or **Windows 98**, APM is preinstalled on the OmniBook.

If you're using **Windows NT 4.0**, you'll need to install APM. See page 3-9 for instructions.

The OmniBook provides several safeguards so you won't be surprised by a dead-battery condition, including the following:

- ♦ The battery status indicator shows the remaining battery charge.
- ♦ Built-in warnings are displayed for low-battery conditions.
- ♦ The OmniBook automatically turns off when the battery charge gets too low—your session continues when you start recharging the battery or insert a fresh battery.

Data on any of the drives is not affected by a low battery—unless the battery runs down completely while writing data to the drive, or if the battery in a PC RAM card is also low.

Monitoring Battery Power

The primary source of power for the OmniBook is its rechargeable battery pack. You can use the ac adapter to recharge the battery—or to run on ac power to preserve the battery. You can also install a second battery in the plug-in module bay for increased battery time.

Important

Running external connections is a power-intensive operation that significantly shortens the length of a battery session. Whenever possible, connect the ac adapter when using external connections.

In addition to the replaceable battery, there is a permanent, internal backup battery, which recharges whenever the OmniBook is on or connected to ac. It maintains certain internal settings, such as the clock.

This section describes how to

- ◆ Check the battery status.
- ◆ Respond to a low-battery warning.
- ◆ Recharge a battery (primary or secondary).
- ◆ Replace the main battery.
- ◆ Install a second battery.

To check the battery status

From the Status Panel

 Full battery	Shows the approximate charge level of the battery relative to a full charge. Each bar (displayed from right to left), represents a 10% charge. The upper and lower triangles indicate the presence of main (upper) and second (lower) batteries. A triangle blinks when that battery is charging. The main battery charges first, discharges last. See "Battery Status" on page 2-18 for more information about the battery indicators.
 Low battery	The battery charge is critically low. The OmniBook also beeps.
 Defective battery	No battery activity; no charging.

From the Windows Taskbar

- Move the pointer onto the power icon at the right end of the taskbar. If you are using Windows NT 4.0, you'll need to install Advanced Power Management to display the power icon (see page 3-9). The approximate battery charge is displayed as a percentage or in hours.
- Double-click the power icon on the taskbar to open the Battery Meter window.

From Windows

- Click My Computer, Control Panel, Power. This provides access to all options associated with reporting of power information by Windows.

On the Battery

- While the battery is out of the computer, press the button on the rear of the battery. The lights show the approximate charge level—each light representing 20% of a full charge.

To respond to a low-battery warning

When battery power is critically low, you are alerted by one or more of the following:

- The battery indicator in the status panel appears empty.
- The computer emits a warning beep. This reminds you to save your work.
- If the OmniBook has been off, you will not be able to turn it on.

The OmniBook automatically hibernates to preserve your current session. (If Hibernate is disabled in the BIOS Setup utility, then your data is not protected.) However, the data could be affected if the battery runs down completely while writing data to the drive.

You won't be able to restart until you restore power by one of the following actions:

- Plug in the ac adapter.
- or–
- Replace the main battery with one that is charged.
- or–
- Install a charged second battery in the plug-in module bay.

To recharge a battery

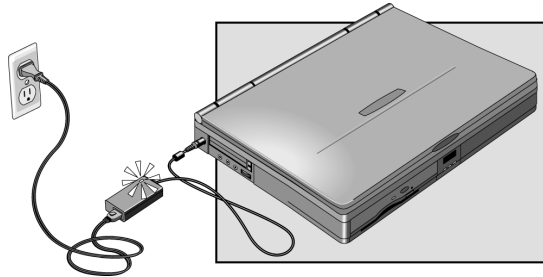
CAUTION

The ac adapter is normally warm to the touch whenever it's plugged into an ac outlet. The OmniBook is normally warm while it's charging. Don't charge it in a briefcase or other confined space as this may cause the battery to overheat.

1. Connect the power cord to the ac adapter, then plug the cord into an ac outlet. The indicator light on the ac adapter shines when the adapter is on. If the ac adapter does not light, make sure that cord is not damaged.
2. Connect the ac adapter to the OmniBook's left side, as shown in the following illustration.

Managing Battery Power

Monitoring Battery Power



Charging time

Charging the battery takes about 2 hours to fully charge.

Battery life

If the computer is in use, typical battery life can last up to 3 to 3.5 hours, depending on your level of use and your power management settings (see page 1-14).

Optimum Charging

To get the longest battery operating time, continue charging until the OmniBook battery is fully charged, indicated by the following:

- Charging light on the front of the computer stops blinking.
- Status panel battery indicator (up or down triangle) stops blinking.

Because of rounding, a battery indicator can show a full battery *before* it's fully charged. The indicators stop blinking only when the battery is actually full.

You can continue working while the battery is charging.

To replace the main battery

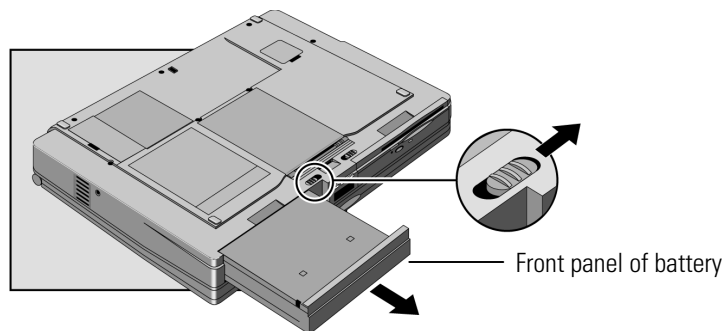
WARNING

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. For more information about battery safety, see page 8-9.

CAUTION

If you have any unsaved data, it (and your current work session) will be lost when you remove the battery unless the computer is connected to ac power or a second battery is installed.

1. **Important.** Save your work.
2. Plug in the ac adapter.
—or—
From the Start menu, shut down the OmniBook.
3. Slide and hold the release latch, then pull out the module, as shown.



4. Push the front panel of the battery towards the center of the unit.

Hint

The battery module can fit into either the module bay or the battery bay. Slide the front panel of the battery right or left so that it fits into the desired bay.

5. Slide the charged battery into the OmniBook until it clicks into place.

To install a second battery

The OmniBook's plug-in module bay accepts a second battery. See page 4-4 for information about plug-in modules.

When a second battery is installed, the lower triangle appears next to the battery icon in the status panel.

Conserving Battery Power

The OmniBook uses Advanced Power Management (APM) to conserve battery power. You can take steps to optimize your battery operating time. If you're using Windows 95 or Windows 98, APM is preinstalled on the OmniBook. If you're using Windows NT 4.0, you'll need to install APM.

This section describes how to

- ◆ Install APM for Windows NT.
- ◆ Save battery power.
- ◆ Set time-outs.
- ◆ Get the most from your battery.

To install APM for Windows NT 4.0

Advanced Power Management (APM) for Windows NT 4.0 is located on the OmniBook's hard disk drive. You set up APM from the Windows Start menu. (The APM driver is also located on the *Recovery CD* in \OmniBook\Drivers\Apm.)

Phoenix APM adds the following capabilities to the OmniBook:

- Improved battery life under Windows NT 4.0.
- PC Card power management.
- Convenient user control and monitoring of power settings and status.

1. To install APM, click Start, Programs, OmniBook, Phoenix Advanced Power Management, Setup.
2. Follow the setup instructions on the screen.

You can download the Phoenix APM documentation from the following website:
<http://www.phoenix.com/notebook/addinfo.html>.

To save battery power

Follow these suggestions to conserve battery power:

- Plug in the ac adapter, especially while using the DVD / floppy drive, the CD-ROM / floppy drive, the LS-120 drive, or any external connections.
- Put the OmniBook in Suspend mode whenever you are not using it for a short while: press the blue power button for approximately 1 second.
- Put the OmniBook in Hibernate mode whenever you want to save your current session, but will not be using the computer for several hours or more (Fn+F12).
- Shut down the OmniBook whenever you will not be using it for several hours or more. Click Start, Shut Down. The current session is *not* saved.
- Turn the brightness of the display down to the lowest comfortable level. This reduces the backlight power and extends the life of your OmniBook display.
- Set the automatic time-out settings to emphasize saving power (page 3-11).
- If you work with an application that uses the serial port or a PC Card, exit the application when you are done using it.
- If you have an I/O PC Card—that is, a PC Card having an external connection, such as a modem or network card—remove it when you are not using it. Some I/O cards use significant power, even while they're inactive.

To set time-outs

The BIOS Setup utility includes settings for automatic time-outs at specified periods of inactivity. There are four different time-outs for different levels of power and conservation.

1. From the Start menu, shut down then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility. Active keys are described along the bottom of the screen. (The pointing devices are not active in the BIOS Setup utility.) Help information for the highlighted item appears in the right-hand sidebar in the display.
3. Select the Power (APM) menu.
4. Select Power Management Mode. (Press the spacebar, F5, or F6 to pick an option *other than* Disabled.)

Maximum Power Savings: The time-out settings are defined for best power savings (relatively short time-outs).

Maximum Performance: The time-out settings are set for fast performance with some power conservation (relatively long time-outs).

Customized: You determine each setting for Smart CPU Mode, Standby Time-out, Suspend Time-out, Hibernate Time-out, and Hard Disk Time-out. For definitions of these power modes, see page 2-3.

5. Optional. Choose a setting for Time-Out On AC. If you want the time-outs to occur even when the OmniBook is connected to ac power, choose Enabled. To prevent time-outs while the OmniBook is plugged in, choose Disabled (default setting).
6. Press F10 to save and exit the BIOS Setup utility.

To get the most from your battery

The following are some further suggestions for the best management of your OmniBook batteries.

- Do not leave batteries unused for long periods of time. If you have more than one, rotate them.
- If you normally use ac power, make a practice of at least once a week using the battery as your power source.
- Unplug the ac adapter when the computer is not in use.
- To preserve the life of your battery, be sure to charge the battery regularly.
- For long-term storage, the battery must be charged at 20-50% to save capacity loss by self-discharge and to avoid deterioration of battery performance. Storage in a 100% charged condition can cause higher self-discharge and deterioration of discharge capacity—even after recharging—compared to storage in a 20-50% charged condition.

Making Connections

Making Connections

This chapter describes procedures to expand the capabilities of your OmniBook, including

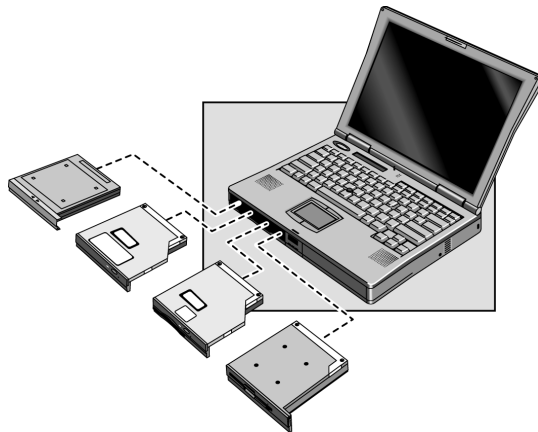
- ♦ Using OmniBook plug-in modules.
- ♦ Connecting external devices.
- ♦ Using PC Cards.
- ♦ Using docking products.

Using OmniBook Plug-In Modules

The plug-in module bay can hold a DVD / floppy disk drive, a CD-ROM / floppy disk drive, an LS-120 drive, a second battery, or a second hard disk drive. This documentation describes the module that shipped with the OmniBook—the DVD / floppy disk drive or the CD-ROM / floppy disk drive. If you've purchased other accessory modules, refer to the accessory documentation that accompanied them for instructions.

This section describes how to

- ◆ Install hot-swap support.
- ◆ Replace a plug-in module.
- ◆ Insert or eject a floppy disk.
- ◆ Insert or remove a DVD or a CD.



To install hot-swap support

The Agaté Tioman "hot-swap" software for Windows 95 and Windows 98 is loaded on the hard disk, but it is not installed. If you install this software, you can switch most modules in the plug-in bay without shutting down the computer and rebooting. (This software does not support Windows NT.)

- Click Start, Programs, Agaté Tioman for HP, Setup, then follow the onscreen instructions.

To replace a plug-in module

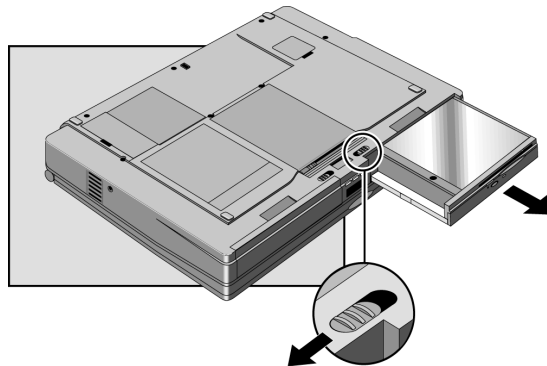
Note

- For Windows 95/Windows 98, if Agaté Tioman hot-swap software is installed, a plug-in module icon appears at the right end of the taskbar. This software lets you swap most plug-in modules without shutting down the computer.
- If you are removing or inserting a hard disk drive in the module bay, you must shut down the computer.
- If you are removing a battery and inserting another battery, you do not have to do steps 1 and 2 below—you can just change the batteries.

CAUTION

If you are inserting or removing a CD-ROM drive, DVD drive, or any other type of drive, you must use the hot-swap software or shut down the computer—otherwise, you could lose data.

1. Close all files that are open from the plug-in module.
2. If the plug-in module icon is present in the taskbar, right-click the icon, then click Remove Device. When prompted to remove the module, click OK. (You do not have to do this if the bay is empty or contains a battery.)
—or—
Click Start, Shut Down to shut down the computer. (You must do this if you are removing or inserting a hard disk drive in the module bay.)
3. Slide and hold the release latch, then pull out the module, as shown.
4. Slide the new plug-in module into the OmniBook until it clicks into place.



To insert or remove a DVD or a CD

CAUTION

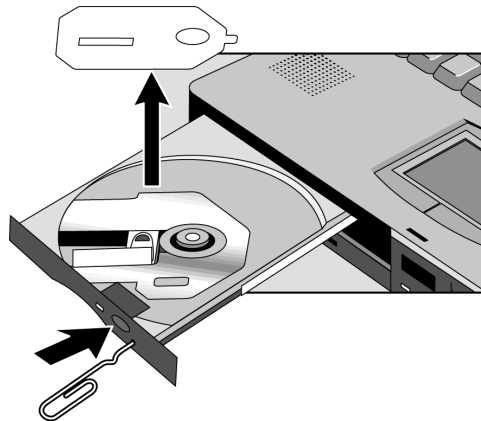
Do not remove a DVD or CD while the OmniBook is actively reading data. Otherwise, the OmniBook could stop responding and you could lose data.

1. Press the button on the face of the drive tray. If the cardboard packing insert is present, be sure to remove it.
2. Place the DVD or CD into the drive (label facing up) and gently press down to seat the disk on the spindle.

—or—

Remove the disk.

3. Slide the DVD tray back into the module to close it.



If you lose power to the OmniBook, or if you have removed the module from the OmniBook, you can manually open the drive to remove a disk.

Insert a straightened paper clip into the recessed hole on the front of the drive, as shown.

To play DVD movies

Note

Windows NT does not support the player software.

For the OmniBook 7150 only, the ATI DVD player is included on the hard disk drive, but is not installed. Use these steps to install the player software.

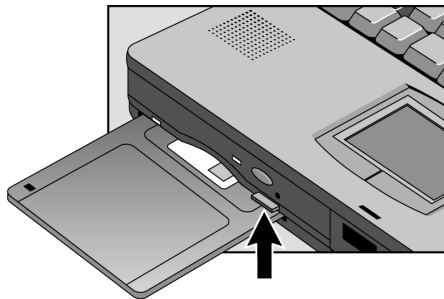
- Click Start, Programs, ATI DVD Player, Setup.

To insert or eject a floppy disk

CAUTION

Do not remove a floppy disk while the OmniBook is actively reading or writing data. Otherwise, you could lose data or the OmniBook could stop responding.

1. Hold the disk with its face up, then slide it into the floppy disk drive slot until it clicks into place.
2. To remove the floppy disk, press the eject button on the front of the drive.



To change the boot order of a device

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Open the Boot menu. The default boot order is
 - Diskette drive
 - Hard drive
 - CD-ROM/DVD drive
4. Use the arrow keys to select drive you want to boot from.
5. Press F6 to move up (or F5 to move down) in the list.
6. Press F10 to Save and Exit the BIOS Setup utility.

Connecting External Devices

You can expand the OmniBook's capabilities by connecting other devices.

Note

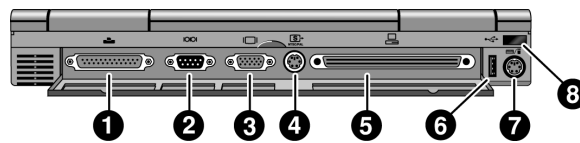
Before you connect any device, check the documentation that came with the equipment to see if you need to make any settings or adjustments to the equipment before using it. This might include setting switches to configure the equipment so that it will operate properly with the OmniBook and the software you plan to use.

This section describes how to

- ◆ Identify connectors for external devices.
- ◆ Connect an external monitor.
- ◆ Enable the built-in and external displays.
- ◆ Change display settings.
- ◆ Connect a parallel or serial device.
- ◆ Connect an external PS/2 keyboard or PS/2 mouse.
- ◆ Connect a universal serial bus (USB) devices.
- ◆ Connect a television.
- ◆ Connect audio devices.
- ◆ Make an infrared connection.

To identify connectors for external devices

The following graphic describes the available connectors for external devices. Refer to it, if necessary, when following the procedures in this section.



1. Parallel port (LPT1).
Use this port for a parallel printer.
2. Serial port (COM1).
Use this port for a serial mouse, a modem, or a serial printer.
3. VGA port.
4. S-video (TV-out) port.
5. Docking port.
6. Universal serial bus port (USB).
7. PS/2 keyboard or PS/2 mouse port (supports the HP F1469A Y adapter).
8. Back infrared port. There is a second infrared port on the front of the OmniBook.
Use this port for wireless data transmission between the OmniBook and another computer or a printer with an infrared port. You need to install the infrared drivers.

To connect an external monitor

You can connect a VGA, SVGA, XGA, or an SXGA monitor to your OmniBook. The OmniBook's internal display supports standard XGA mode (1024 by 768 pixels).

1. Press the blue power button for one second to suspend the OmniBook.
2. Connect the monitor cable to the monitor, then to the VGA port on the back of the OmniBook.
3. Connect the monitor to a power source and turn it on.
4. Press the blue power button to turn on the OmniBook.
5. If the external monitor has a different resolution from the internal display, adjust the display properties (My Computer, Control Panel, Display, Settings).

To enable the built-in and external displays

- For a temporary change, press Fn+F5 to cycle through the display options (Internal, External, Both).

—or—

For a permanent change, change the settings in the BIOS Setup utility (see the following topic).

To change display settings in the BIOS Setup utility

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Main menu, use the down arrow to highlight Video Display Device.
4. Press ENTER to view choices.
5. Select Auto (automatically detects external monitor) or Both.
6. Press F10 to save settings and exit Setup.

To connect a parallel device

The parallel port uses a standard 25-pin connector, most commonly used for connecting a printers. These include dot-matrix, ink-jet, and laser printers. The parallel port supports both EPP and ECP capabilities (if selected in BIOS Setup).

The OmniBook has one parallel port. Its address and properties can be set in the BIOS Setup utility.

- Connect the parallel printer cable or other parallel cable to the parallel port.

To connect a serial device

The OmniBook's serial port uses a standard 9-pin serial port. Serial connections typically are to external modems and fax modems. The OmniBook has one serial port. Its address can be set in the BIOS Setup utility.

- Connect the serial cable to the serial port.

To connect a serial mouse

1. Connect the serial cable to the serial port.
2. From the Start menu, click Settings, Control Panel.
3. Double-click Mouse, then click General.
4. Click Change and then select Show All Devices.
5. Under Manufacturers, click Standard Mouse Types.
6. Under Models, change the mouse type to Standard Serial Mouse, then click OK.

To connect an external keyboard or PS/2 mouse

The 6-pin PS/2 port allows you to attach an external keyboard or a PS/2-compatible mouse to the OmniBook. While an external PS/2 mouse is connected, the pointing devices are normally disabled.

- Plug the mouse or keyboard PS/2 cable into the PS/2 port on the OmniBook.
 - To connect both a mouse and keyboard, use the HP F1469A Y adapter.
 - To connect a device that has a PC-type jack, first connect its cable to an adapter cable with a PS/2 jack.

Hint

To use hot keys from an external keyboard, substitute CTRL+ALT for the OmniBook Fn key. For example, to access Fn+F2, press CTRL+ALT+F2. If this does not work, check that the setting for External Fn Key is enabled in the System Devices menu of the BIOS Setup utility.

The built-in pointing device must be disabled for special mouse features to work. In the BIOS Setup utility, check that the PS/2 Pointing Devices option is set to Auto in the System Devices menu.

To connect USB devices

Note

Windows NT 4.0 does not support universal serial bus (USB) devices.

Universal serial bus (USB) provides a bi-directional serial interface for adding peripheral devices such as game controllers, serial and parallel ports, and scanners on a single bus. The OmniBook provides one USB port; the OmniBook docking products provide two USB ports.

- Attach the USB cable to the USB port. Windows 95 or Windows 98 automatically recognize the USB device. Some USB devices can be connected to the OmniBook in a series of USB devices—this is called a “daisy-chain” connection.

Note

If you have problems making this connection, contact the vendor of the peripheral device, as well as the HP website, for the latest versions of the USB drivers. The USB technology is dynamic and continues to develop.

To connect a television

Note

At the time of this printing, Windows NT 4.0 does not support a television connection. Check the HP website at <http://www.hp.com/omnibook> for updates.

If your television has an S-video port, you can connect it to the OmniBook and use your television display as a monitor. Connect an S-video cable—available at most computer stores—directly between the television and OmniBook. If your television does not have an S-video port, you'll need to order the HP video cable adapter (HP F1459A).

1. From the Start menu, shut down the OmniBook.
2. Connect the S-video cable to the OmniBook.
3. Connect the cable to the S-video port on the back of your television.
4. Turn on the OmniBook.
5. From the Start menu, click Settings, Control Panel, Display.
6. Click the Settings tab, then select TV. (You can select any or all of the choices: CRT, TV, LCD).

NTSC and PAL Television Standards

If your television uses the PAL standard, you'll need to change the BIOS setting from NTSC to PAL.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Main menu, select Television Type, then select PAL.
4. Press F10 to save and exit.

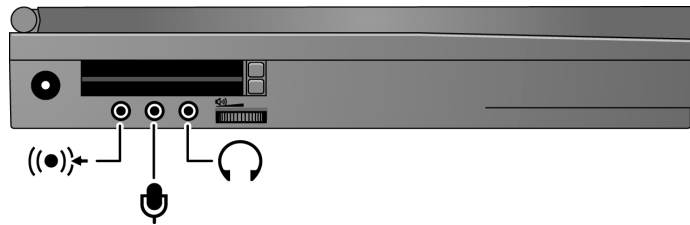
To connect audio devices

There is a built-in microphone located just below the OmniBook display. You can use it to record voice, sound, and music. You can also plug in a stereo input source, (such as a CD player), an external microphone, external speakers or headphones.

CAUTION

The audio jacks are three-terminal stereo jacks. They are not compatible with two-terminal mono plugs. Connecting a mono plug into the headphone-out jack may damage the OmniBook.

- Attach the audio cable to the corresponding audio port.



Note

- When you plug a device into the microphone-in port, the built-in microphone automatically turns off.
 - When you plug a device into the speaker-out port, the built-in speakers automatically turn off.
-

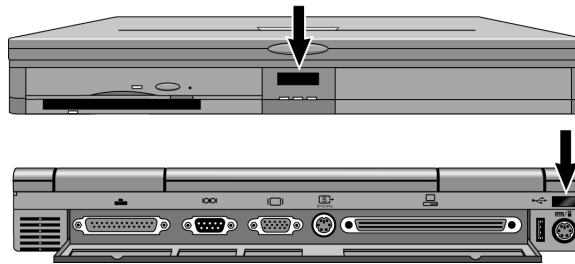
To make an infrared connection

Note

Windows NT 4.0 does not support infrared communication.

By default, the infrared port is *not enabled*. You must enable it in the BIOS Setup utility and then install the appropriate infrared driver. For details, refer to the driver's Readme file located in \OmniBook\Drivers.

The OmniBook provides two infrared ports—one on the front of the OmniBook (below the latch) and one on the rear panel. The infrared ports provide wireless, serial communication between the OmniBook and other IR-equipped devices such as printers and other OmniBooks.



- Line up the OmniBook's infrared port and the other infrared port in as straight a line as possible. The two ports should be no more than 1 meter apart, with no obstructions in between. Noise from nearby equipment can cause transmission errors.
- To check the status of communications, go to Infrared Monitor (Start, Settings, Control Panel).
- To switch between front and rear infrared ports, press Fn+F. A light turns on behind the front infrared lens when the front port is selected.

Printing to an Infrared Printer

- Install your printer and assign it to the OmniBook's IR port. You can then print from your applications as you would to any other printer. Be sure the OmniBook and printer infrared ports are properly aligned.

Transferring Files with an Infrared Connection

To transfer files, you can use the Direct Cable Connection software built into Windows 95 and Windows 98. You need to install it first.

1. From Control Panel, click Add/Remove Programs.
2. Click Windows Setup, Communications, and select Direct Cable Connection.

See the Windows online help for instructions about how to use Direct Cable Connection.

Using PC Cards

This section describes how to

- ◆ Insert and remove a PC Card.
- ◆ Select a compatible PC Card from a list of tested cards.
- ◆ Install Card Executive software for Windows NT.

To insert a PC Card

Note

Windows NT 4.0 does not support zoomed video. If you are using Windows NT 4.0, make sure you've installed Card Executive (see page 4-19 for instructions).

The OmniBook PC Card slots are available for storing data and expanding the communication capabilities of the OmniBook. The OmniBook supports standard Type I, II, and III PC Cards (PCMCIA and CardBus). You can use two Type I or II cards or one Type III card.

For the OmniBook 7100, both slots support Zoomed Video, which allows a zoomed video card to show high-quality multimedia presentations. For the OmniBook 7150, only the lower slot supports Zoomed Video.

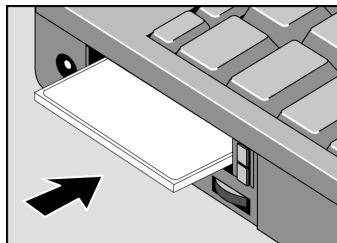
CAUTION

Do not remove a PC Card while the OmniBook is reading or writing data. Otherwise, you could lose data or the OmniBook could stop responding. When the card is active, the PC Card indicator appears on the status panel. On the OmniBook 7150, the PC Card indicator stays on if a PC CardBus is installed.



PC Card indicator

1. Hold the card with its face up and its connector holes toward the card slot.
2. Slide the PC Card into the slot until it is flush with the OmniBook.

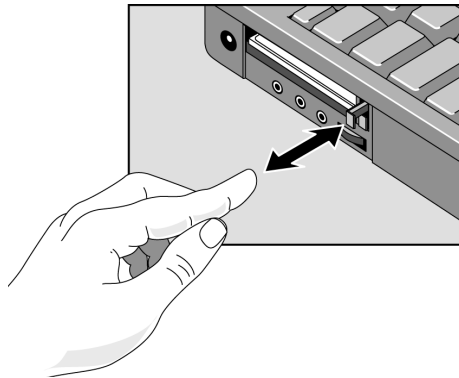


To remove a PC Card

CAUTION

Do not remove a PC Card while the OmniBook is reading or writing data. Otherwise, you could lose data or the OmniBook could stop responding. When the card is active, the PC Card indicator appears on the status panel.

1. To remove the card, click the PC Card indicator in the taskbar, then click Stop (for Windows 95 and Windows 98 only). This protects your data and avoids unexpected problems. You can restart the card by removing it, then inserting again.
2. Press the eject button once to pop the button out.
3. Press the eject button again to eject the PC Card.



To find tested PC Cards

For the latest information about compatible cards, visit our website at <http://www.hp.com/omnibook> and check the Accessories section. Or contact Hewlett-Packard as described in the *Support and Service* booklet.

To install Card Executive support for Windows NT

To take advantage of Card Executive's plug-n-play for PC network cards, you must install Card Executive before installing Windows NT networking. Card Executive is located on the OmniBook's hard disk drive.

You set up Card Executive from the Windows Start menu. (The driver is also located on the *Recovery CD* in \Omnibook\Drivers\Pccard.)

Card Executive adds the following capabilities to your OmniBook:

- Plug and Play for PC Cards using standard Windows NT drivers.
- Plug and Play for supported network PC Cards.
- Automatic configuration of PC Cards utilizing advanced "Wizard" technology to allocate system resources.
- Suspend/Resume functions and simplified administration of PC Cards when integrated with Phoenix Card Executive.

1. Click Start, Programs, OmniBook, Card Executive, Setup.
2. Follow the setup instructions on the screen.

You can download the Phoenix Card Executive documentation from the following website: <http://www.phoenix.com/notebook/addinfo.html>.

Using Docking Products

A docking product provides external connections for the OmniBook that you can leave in place whenever you remove the OmniBook from your desk. Instead of disconnecting and reconnecting peripheral devices, simply undock and dock the OmniBook. This section describes how to

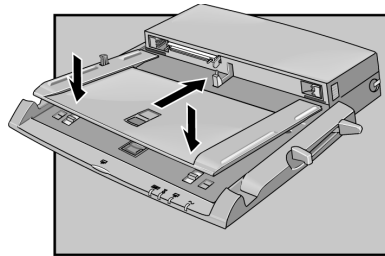
- Install a docking tray.
- Dock the OmniBook.
- Undock the OmniBook.

For more information about using docking products, see *User's Guide* that shipped with your dock.

To install a docking tray

Your dock requires a tray that accommodates your specific OmniBook model. Install this tray prior to connecting the OmniBook to the dock.

1. Select the tray labeled for the OmniBook 7100/7150.
2. Slide the rear of the tray into the dock as shown on the dock label.
3. Push down firmly on both sides of the tray until it snaps into place.



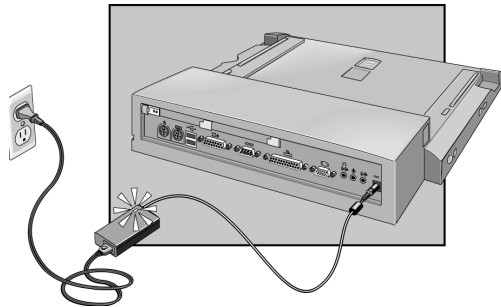
To remove a tray from the dock, pull the latch (at the center front of the dock) towards you until the tray pops free.

To dock the OmniBook

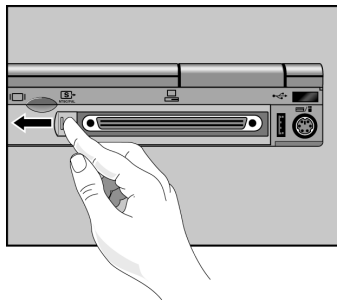
1. From the Start menu, shut down the OmniBook.

If you have a plug-and-play operating system, such as Windows 95 or Windows 98, you do not need to turn off the OmniBook before inserting it into the dock.

2. Connect power to the dock—the type of connection depends on the dock. See the manual that came with the dock.



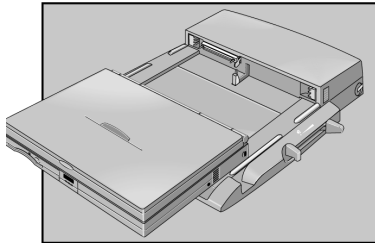
3. On the rear of the OmniBook, slide the docking door to the left.



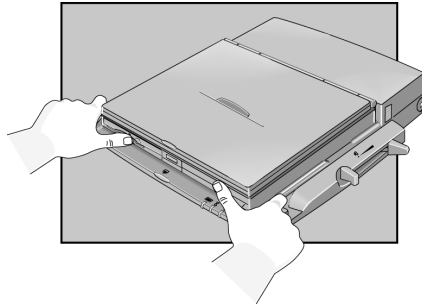
Making Connections

Using Docking Products

4. Place the OmniBook on the dock platform, with the rear of the computer facing the dock's docking connector.

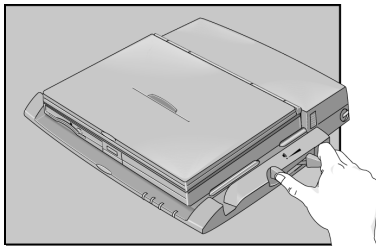


5. Position your fingers on the platform grips as shown below. Use your thumbs to push the computer into the dock until the computer clicks into place.



To undock the OmniBook

1. If you're using Windows NT, click Start, Shut Down.
2. Press the undock button on the front of the dock and wait for the undock light to turn green. Then position your thumb as shown and pull the release lever forward.



3. Remove the OmniBook from the dock.

Expanding the OmniBook

Expanding the OmniBook

This chapter describes some of the optional equipment that can be added to the OmniBook—components installed inside the computer rather than connected to the computer's I/O ports.

This chapter describes procedures to expand or update the capabilities of your OmniBook, including

- ♦ Installing a hard disk drive.
- ♦ Installing a RAM expansion module.

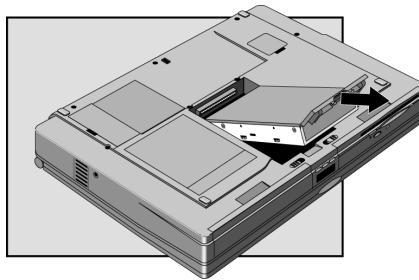
Installing a Hard Disk Drive

This section describes how to

- ◆ Replace the hard disk drive.
- ◆ Replace the hard disk drive holder.
- ◆ Create a hibernate partition for a new hard disk drive.

To replace the hard disk drive

1. Unplug the ac adapter, if present, and remove the battery.
2. Turn the unit bottom side up.
3. Use a screwdriver to pop up the hard drive handle.
4. Pull the tab and remove the hard drive cushion.
5. Slide the hard drive toward the front, then lift it out.
6. Insert the new hard disk drive.
7. Replace the hard drive cushion.
8. Insert the battery.



Important

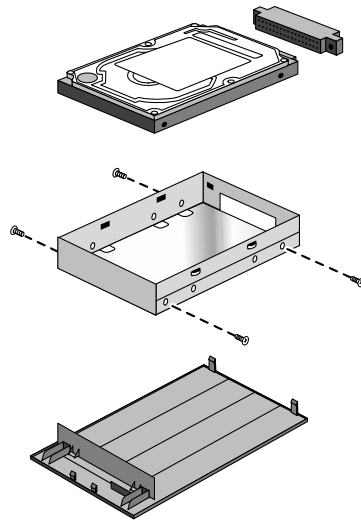
If you are installing a new hard disk drive, you should create a Hibernate partition on the drive before loading any software—see page 5-5 for instructions.

To replace the hard disk drive holder

If you are installing a new hard drive that does not have a plastic holder, you can remove the holder from the old hard drive.

You'll need a small Phillips screwdriver for this procedure.

1. Unsnap the two plastic snaps next to the connector and remove the plastic tray.
2. Remove the four screws from the sides of the shield.
3. Remove the hard drive from the shield.
4. Unplug the connector from the hard drive.



To create a Hibernation partition

You'll need the OmniBook, its DVD or CD-ROM drive, and the OmniBook *Recovery CD* to create a hibernation partition.

1. Connect the ac adapter to the OmniBook.
2. Insert the DVD or CD-ROM drive in the OmniBook.
3. Insert the bootable *Recovery CD* in the drive.
4. Reboot, press ESC twice and select the DVD/CD-ROM drive as the boot device.
The DOS Startup menu appears.
5. Choose the following option:
Create Hibernation Partition (erases Hard Disk).
6. Choose Y to Continue.
7. When prompted for "Hibernation" partition size, select the factory default.

Do not interrupt the Hibernation partition process or unplug the ac adapter until the process is complete.

Installing a RAM Expansion Module

CAUTION

Your OmniBook's computer chips are extremely static-sensitive. Static electricity can permanently damage computer chips. Handle the RAM module only by its edges. Before installing the memory module, discharge your body's static electricity by touching the metal shielding around the connectors on the rear of the OmniBook.

The OmniBook provides an optional memory expansion slot for installing a RAM expansion module.

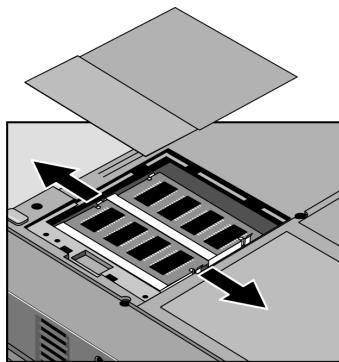
This section describes how to

- ◆ Install a RAM expansion module.
- ◆ Remove a RAM expansion module.

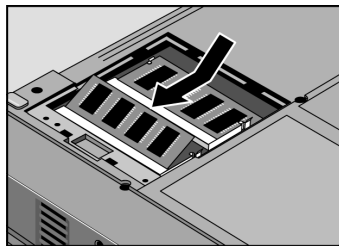
To install a RAM expansion module

Your OmniBook's computer chips are extremely static-sensitive. Static electricity can permanently damage computer chips. Before starting, reading the caution on page 5-6 about how to handle RAM expansion modules.

1. From the Start menu, shut down the OmniBook.
2. Unplug the ac adapter, if present, and remove the battery. (Remove a second battery if one is installed.)
3. Turn the unit bottom side up and unsnap the RAM cover.



4. Insert the RAM board into the connector at about a 30° angle until it is fully inserted. Then press down at both sides until both latches snap closed.

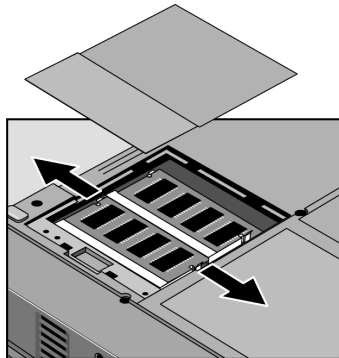


If only one RAM board is present, you can install it in either connector.

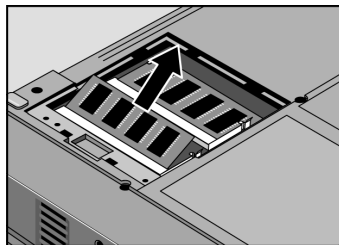
To remove a RAM expansion module

Your OmniBook's computer chips are extremely static-sensitive. Static electricity can permanently damage computer chips. Before starting, reading the caution on page 5-6 about how to handle RAM expansion modules.

1. From the Start menu, shut down the OmniBook.
2. Unplug the ac adapter, if present, and remove the battery. (Remove a second battery if one is installed.)
3. Turn the unit bottom side up and pry open the RAM cover.
4. Release the two metal latches at the sides of the RAM board, so the free edge of the board pops up.



5. Pull the module out of the connector.



6. Replace the door.
7. Insert the battery.

Using the *Recovery CD*

Using the *Recovery CD*

You can use the OmniBook *Recovery CD* to recover an original OmniBook build, or you can use it to install the HP custom software over a user-installed alternate operating system.

The *Recovery CD* provides the OmniBook-specific drivers to configure your custom system. The drivers are located in these places:

- On the *Recovery CD* ROM, under \OmniBook\Drivers.
- On the OmniBook hard drive under C:\OmniBook\Drivers.
- On the OmniBook website at <http://www.hp.com/omniBook>. This website contains the latest updates of software drivers.

Important

The drivers for the retail version of these operating systems, as well as other operating systems, are located on the OmniBook website. Detailed instructions are located in the Readme for each driver.

The OmniBook *Recovery CD* includes the following:

Directory	Contains
README.TXT text file	Instructions for using the <i>Recovery CD</i> .
RECOVER\	
BOOTDISK	For creating your own copy of a boot disk.
OMNIBOOK\	
HPUTILS	Use this to install the online <i>User's Handbook</i> or to copy the OmniBook Notes and Support files to the \OmniBook directory on your hard drive.
DRIVERS	Use this to manually install individual device drivers for your factory-installed operating system. The README file in OmniBook\Drivers contains complete installation instructions. If you need drivers for other operating systems, go to the OmniBook website at http://www.hp.com/omniBook .
MANUALS	Use this for viewing of the online <i>User's Handbook</i> from the CD. See HPUTILS above to install the <i>User's Handbook</i> .

Recovering Software

If you've deleted or lost files on the OmniBook, causing the system to work improperly, you may need to recover the original Windows operating system. You can also recover OmniBook files and install them over an alternate operating system.

This section describes how to

- ◆ Recover the factory installation of Windows.
- ◆ Install the OmniBook online *User's Handbook*.
- ◆ Recover a damaged *Recovery CD* or hard disk drive.
- ◆ Update the OmniBook BIOS.
- ◆ Get drivers for other operating systems.

To recover the factory installation of Windows

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

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. If possible, *back up any files you would like to save before installing Windows.*

1. Shut down the OmniBook and insert the CD-ROM drive in the module bay.
2. Connect the ac adapter and turn on the OmniBook.
3. When you see the HP logo, press F2 to enter the BIOS Setup utility.
4. Open the Boot menu and select CD-ROM as the first boot device. (*You may want to change the boot order back to Diskette Drive after completing this procedure.*)
5. Insert the *Recovery CD* into the CD-ROM drive.
6. Press F10, then press Yes to save and exit the BIOS Setup utility.
7. When the menu appears, choose "Recover ..." for your operating system.
8. When prompted, select Y to erase the hard disk and continue.
9. When prompted for a "Hibernate" partition size, select the factory default.
10. If you are installing Windows 95 or Windows 98, select a file system (FAT16 or FAT32).

The default file system for both Windows 95 and Windows 98 is FAT32. After the hard drive is erased and partitioned, the OmniBook reboots and begins copying files from the *Recovery CD*.

The recovery process can take up to an hour. *Do not interrupt the recovery process or unplug the ac adapter until recovery is completed.*

To install the online *User's Handbook*

You can install the online *User's Handbook* from the *Recovery CD*. This also installs OmniBook Notes and Support files to your hard drive.

1. Connect the ac adapter to the OmniBook.
2. Insert the DVD drive or the CD-ROM drive in the module bay.
3. Insert the *Recovery CD* in the drive.
4. From the \OmniBook\Hputils\Disk1 directory on the CD, double-click SETUP.EXE. The OmniBook Application Software Setup screen appears.
5. Click Next.
6. Click "OmniBook Online Documentation."
7. Click Install Now.

To replace a damaged *Recovery CD*

If you lose or damage the *Recovery CD*, take your OmniBook and Certificate of Authenticity to an HP Service Center to be replaced. If you mail your OmniBook for this service, you *must* provide a photocopy of the Certificate of Authenticity along with payment.

See the Support and Service booklet for HP Service Center addresses and telephone numbers.

To update the OmniBook BIOS

Hewlett-Packard may update the BIOS to enhance the capabilities of the OmniBook. Updates will be available from HP Customer Care. Visit the Support website at <http://www.hp.com/omnibook>.

You may receive a BIOS update on a floppy disk or on a CD.

CAUTION

Because a BIOS update replaces the previous version, it is very important you follow these instructions exactly. Otherwise, the OmniBook may be damaged. The BIOS update process resets the configuration settings in the BIOS Setup utility except for the PC Identification and Password.

1. If you are updating the BIOS from a CD, you'll need to change the boot device to CD-ROM/DVD drive. See page 4-7 for instructions.
2. From the Start menu, shut down the OmniBook.
3. Connect the ac adapter to the OmniBook.
4. Remove any PC Cards and if docked, undock the OmniBook.
5. Insert the BIOS Update disk or CD in the appropriate drive.
6. Press the blue power button.
7. When prompted, choose the correct language.
8. When prompted, press C and follow the onscreen instructions. This starts a process that takes approximately 1 minute. *Once it begins, do not interrupt the update process.*

To get drivers for other operating systems

The *Recovery CD* provides the drivers for your factory-installed operating system. If you install a retail version of Windows 95, Windows 98, or Windows NT, you will need the OmniBook-specific drivers to configure your custom system.

The drivers for all three of these operating systems are located on the OmniBook website at <http://www.hp.com/omnibook>.

Troubleshooting

Troubleshooting

If you run into problems with your OmniBook, you can use the suggestions in this chapter for getting back on track.

If you have questions that this manual doesn't answer, you can

- Look at the online Help for Windows and other applications.
- Find technical information about the OmniBook on the Internet—visit the Support website at <http://www.hp.com/omnibook>.
- See other books about Windows, MS-DOS, and other applications. Check your local library or bookstore.
- Contact your dealer, or contact Hewlett-Packard—see the *OmniBook Support and Service* booklet or OmniBook Support in the online OmniBook Library.
- Get information about system resources (interrupts, addresses, and memory), see “Software System Resources” on page 8-6.

Solving Problems

If your OmniBook has a problem, find the symptom below that matches your situation. Try the suggestions one at a time.

Accessory Problems

If a port on a dock isn't working

- Check that ac power is connected.
- Try using the corresponding OmniBook port, while undocked.
- See the manual for the dock.

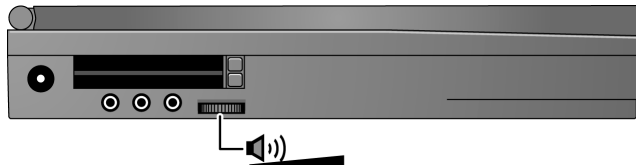
If you can't boot from a CD in the DVD or CD-ROM drive

- Make sure the CD is a bootable CD, such as the OmniBook *Recovery CD*.
- Press ESC twice during startup to see if the DVD or CD-ROM drive is the first boot device.
- Make sure the drive module is seated correctly—remove and reinsert.
- If you always want to boot from a CD, check boot order in BIOS Setup.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. Open the Boot menu. The default boot order is
 - Diskette drive
 - Hard drive
 - CD-ROM/DVD drive
 4. Use the arrow keys to select the CD-ROM/DVD drive.
 5. Press F6 to move up (or F5 to move down) in the list.
 6. Press F10 to Save and Exit the BIOS Setup utility.
- Make sure you are using an internal OmniBook CD-ROM or DVD drive. You cannot boot from an external CD-ROM or DVD drive.
- Reset the OmniBook.

Audio Problems

If sound is not audible

- Roll the volume control wheel forward to increase the volume.
- Press Fn+Up Arrow several times.



- Double-click the speaker icon on the taskbar to ensure that Mute is not checked.
- For the OmniBook 7100 only, check settings in BIOS Setup.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the System Devices menu, check that Audio is enabled.

If sound doesn't record

- For the 7100 only, check settings in BIOS Setup (System Devices, Audio).
- Check software controls for recording sound (Start, Programs, Accessories, Multimedia, Sound Recorders).

Display Problems

If the OmniBook is on, but the screen is blank

- Press the space bar to see if the computer is in Standby mode.
- Press Fn+F1 or Fn+F2 to adjust the display.
- Press Fn+F5 in case the internal display was disabled. (Do this three times to return to the state you started from.)
- If the OmniBook 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, 1024× 768 (XGA). Check this in Start, Settings, Control Panel, Display, Settings.
- Check brightness (Fn+F2 to increase brightness).

If the 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 Both in the Main menu. See page 1-11.
- If the monitor is connected to a video adapter in a docking system, in BIOS Setup make sure the Primary Video Adapter is set to Auto in the Main menu.

Hard Disk Drive Problems

If the OmniBook's hard drive doesn't spin

- Check the power source.
- Remove and reinsert the hard drive. See page 5-3 for instructions.

If the hard disk makes buzzing or whining noise

- Back up the drive immediately.
- Check for alternate noise sources, such as the fan or a PC Card drive.

If files are corrupted

- Run the McAfee VirusScan program (see page 2-22 for instructions).
- For Windows 95 or Windows 98

If you're using Windows 95 or Windows 98, you can run the Scandisk surface scan to check the platter. (This is not available in Windows NT 4.0). From the Start menu, click Programs, Accessories, System Tools, Scandisk.

- For Windows NT 4.0

Right click on the drive, then click Properties, Tools, Error Checking.

Keyboard and Pointing Device Problems

If the pointer is difficult to control

- To customize all pointing devices, use the Mouse icon in Control Panel (Start, Settings, Control Panel).
- To customize the operation of the pointing stick, use the pointing stick icon available on the Taskbar (or in the Windows Control panel) to access TrackPoint Properties.

If the touch pad or pointing stick doesn't work

- Make sure the touch pad or pointing stick is enabled in the BIOS Setup utility.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the System Devices menu, check Internal Pointing Devices.
 4. Select the desired pointing device.
 5. Press F10 to Save and Exit the BIOS Setup utility.
- Reset the OmniBook.
- Don't touch the pointing stick or the touch pad while booting or resuming.

If the embedded numeric keypad doesn't work

- Make sure Num Lock is on.
- Make sure the embedded Keypad Lock (Fn+F8) is on—or that you press and hold the Fn key to temporarily access the embedded keypad.
- Don't touch the pointing stick or the touch pad while booting or resuming.

If a special feature on the PS/2 mouse doesn't work

- The built-in pointing device must be disabled for special mouse features to work. In the BIOS Setup utility, check that the PS/2 Pointing Devices option is set to Auto in the System Devices menu. See page 1-12.

- Make sure you installed any drivers installed with the mouse.

If CTRL+ALT doesn't work on an external keyboard

- CTRL+ALT should work like the Fn key on an external keyboard. In BIOS Setup, check that External Fn Key is enabled in the System Devices menu. See page 1-12.

Infrared Problems

If you have problems with infrared communications

- For infrared communications, an infrared driver must be installed and a BIOS Setup setting must be enabled. See page 4-15.
- Windows NT 4.0 does not support infrared devices.
- Make sure the infrared light path is not blocked.
- Line up the OmniBook's infrared port and the other infrared port in as straight a line as possible. The two ports should be no more than 1 meter apart, with no obstructions in between.
- Press Fn+F to toggle between the front and rear OmniBook infrared ports.
- Check settings in BIOS Setup utility.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the System Devices menu, check that Infrared Port is enabled.
 4. Check which infrared port you have enabled (front or rear port).
 5. Press F10 to Save and Exit the BIOS Setup utility.
- Check that only one application is using the infrared port.
- Standard IrDA and fast-IrDA are incompatible. They use different drivers.
- For fast-IrDA, check for DMA conflict with ECP parallel port.
- Remove any PC Cards. An infrared IRQ conflict is possible if two PC Cards are plugged in at the same time.

Memory Problems

If a message says you are out of memory

- In Windows Help, search for Memory Troubleshooter.
- If you are having memory problems running MS-DOS programs, in Windows Help search for MS-DOS troubleshooter.

PC Card (PCMCIA) Problems

If the OmniBook doesn't recognize a PC Card

- Make sure Card Executive is installed for Windows NT.
- Remove and reinsert the PC card.
- If the card requires an IRQ, check that there is one available.
 - If you're using Windows 95 or Windows 98, look in Device Manager, Properties, Interrupt Request (IRQ).
 - If you're using Windows NT, click Start, Programs, Administrative Tools, Windows NT Diagnostics.
- Check the OmniBook website for information about supported PC Cards.
- Try the card in another computer.
- Reboot the OmniBook.
- On the OmniBook 7150, Zoomed Video is supported in the lower card slot only.
- Windows NT does not support Zoomed Video.

Performance Problems

If the OmniBook gets hot

- It is normal for the computer to get hot.
- Make sure the air vents are clear.
- DOS games and other programs that drive CPU usage toward 100% can contribute to a temperature increase.

If the OmniBook pauses or runs sluggishly

- Press CTRL+ALT+DEL to see if an application is not responding.
- Reboot the OmniBook.
- Delete temporary and unneeded files.
- This may be normal Windows behavior (background processing can affect response time).
- Check the BIOS Setup settings.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the Power menu, set the Power Management Mode to Max. Performance.
 4. Press F10 to Save and Exit the BIOS Setup utility.
- Certain background operations (such as McAfee VirusScan) can affect performance while they're running.
- Some file browsers may be unresponsive while they're processing a graphic image or waiting for broken network connections to time out.
- Install additional memory if Windows is spending a lot of time swapping to disk.
- Check amount of available free disk space.
- Try disabling Advanced Power Management.

Power and Battery Problems

If the OmniBook turns off immediately after it turns on

- Battery power is probably extremely low. Plug in the ac adapter, insert a new charged battery module, or insert a second battery module.

If the OmniBook keeps beeping

- The OmniBook beeps for 15 seconds when the battery is low. Save your work, quit immediately, and insert a charged battery or plug in the ac adapter.

If the OmniBook has a short operating time

- Try conserving power using any of the suggestions listed under “To save battery power” on page 3-10.
- If you are running any applications with an automatic save feature, such as MS Word for Windows, disable this feature.
- If the operating time has gotten shorter and the battery is more than a year or two old, you may need to replace the battery.
- Turn down the display brightness (Fn+F1).
- Heavy modem use can affect battery operating time.
- Check the Power Management settings in BIOS Setup.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the Power menu, make sure the Power Management Mode is set to Maximum Power Savings.
 4. Press F10 to Save and Exit the BIOS Setup utility.

If the battery doesn't charge

- Make sure the ac adapter is plugged into the power source.
- 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 light on the ac adapter is on.

- Check that the battery is fully installed and locked in place.
- Turn off the OmniBook, then check that the battery contacts are clean and that the ac adapter cables are fully plugged in.
- Move the OmniBook away from any nearby heat source. Unplug the ac adapter and allow the battery to cool down. An elevated battery temperature prevents charging.
- If available, try another battery and ac adapter.

If the second battery doesn't charge

- The OmniBook's second battery doesn't charge until the main battery is fully charged.
- Make sure the ac adapter is plugged into the power source.
- Check that the light on the ac adapter is on.
- Check that the second battery module is fully installed and locked in place.

If the OmniBook stops responding

- Press CTRL+ALT+DEL to end the application that is not responding.
- Press the blue power button to suspend the OmniBook. Then press the blue button again to turn the OmniBook back on.
- If nothing happens, insert a paper clip into the system-off button on the right side of the OmniBook. Then press the blue button to turn the OmniBook on.

If the OmniBook doesn't suspend as expected

- If you have a connection to another computer, the OmniBook doesn't suspend if the connection is actively in use.
- If the OmniBook is performing an operation, it normally waits for the operation to finish.
- If a CD-ROM drive is present, make sure auto insert notification is disabled. This is the default factory setting. In Windows 95 or Windows 98, view the CD-ROM drive properties in Device Manager.

Printing Problems

Hint

For most printing problems, use the Print Troubleshooter in Windows Help.

If a serial or parallel printer doesn't print

- Check that you are using a proper cable or cable adapter, and that the printer is on.
- Check for paper in the printer or other printer errors.
- Make sure the printer cable is secure at both ends.

If an infrared printer doesn't print

- Windows NT 4.0 does not support infrared devices.
- Make sure the infrared light path is not blocked.
- Check for paper in the printer or other printer errors.
- Make sure Windows is running—infrared printing is supported only while Windows is running.
- An infrared driver must be installed and the BIOS Setup setting must be enabled. For details, refer to the drivers' Readme files (located in \Omnibook\Drivers).
- In Windows Help, use the Print Troubleshooter.

If the left edge of printed output is missing

- If the printer you are using is a 600-dpi (dots per inch) printer, try selecting a compatible printer driver for a 300-dpi printer. For example, for a 600-dpi HP LaserJet printer, try using the HP LaserJet IIIsi driver (300-dpi). Certain applications may not work properly with 600-dpi printers.

Serial, Parallel, and USB Problems

If the serial mouse doesn't work

- First, make certain you followed the manufacturer's installation instructions completely and everything necessary to install the mouse properly.
- Check the port connection (may be loose).

If a serial modem doesn't work properly

- In Windows Help use the modem troubleshooter.
- Check the port connection (may be loose).

If an I/O card stops communicating properly

- It may have been reset if the OmniBook suspended or turned off. Exit and restart the application.

If the serial or parallel port is not working

- Check the port connection (may be loose).
- Check settings in BIOS Setup.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. From the System Devices menu, check that Parallel or Serial is enabled.

If the USB port is not working

- Windows NT 4.0 does not support USB devices.
- Contact the vendor of the peripheral device, as well as HewlettPackard, for the latest versions of the USB drivers.

Startup Problems

If the OmniBook doesn't respond at turn-on

- Connect the ac adapter.
- Press blue power button to try turning on the unit.
- Reset the OmniBook.

If you get no response, remove the battery and ac adapter—then plug in the ac adapter and try resetting. If you still get no response, the unit requires service.

If the OmniBook doesn't boot from battery power

- Make sure the battery is properly inserted.
- Check battery level on status panel.
- Check battery contacts. If available, try another battery.

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

- Check boot order in BIOS Setup utility.
 1. From the Start menu, shut down, then restart the OmniBook.
 2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
 3. Open the Boot menu. The default boot order is
 - Diskette drive
 - Hard drive
 - CD-ROM/DVD drive
 4. If Diskette Drive is not option 1, use the arrow keys to select Diskette Drive.
 5. Press F6 to move up (or F5 to move down) in the list.
 6. Press F10 to Save and Exit the BIOS Setup utility.

Testing the Operation

The OmniBook hardware diagnostic program provides two levels of testing:

- Automated testing using the basic hardware test.
- Advanced testing using the 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 non-destructive and are intended to preserve the state of the computer. The OmniBook reboots when you exit the program so drivers can be loaded.

To create a diagnostic floppy disk

After inserting a formatted floppy disk in the floppy drive, do one of the following to create a diagnostic floppy disk:

- On an OmniBook with a factory software installation, run **diaginst** from the \Dmi\Hpdiags directory on the hard disk.
–or–
If HP TopTools is installed, use the DiagTools page to create the disk.
- On any computer with a CD-ROM drive, run **diaginst** from the \Omnibook\Drivers\Hputils directory on the *Recovery CD*.
- On any computer with World Wide Web access, download the diagnostic software package from the OmniBook website (<http://www.hp.com/omnibook>), run this file to unpack the files, then run **diaginst** to create the diagnostic disk.

To run the diagnostic test

1. Insert the diagnostic disk in the floppy drive.
2. Reboot the OmniBook.
3. Go through the first several screens.
4. When the hardware detection finishes, check the list of detected hardware.

Hint

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

5. **Run the basic test.** Press F2 to start the basic hardware test.
6. If you intend to exit without running advanced tests, press F4 to save system and test information in the Support Ticket log file, HPSUPPT.TXT. Then remove the diagnostic disk and press F3 to exit.
7. **Optional: Run the advanced tests.** Press F2 to open the advanced test screen.
8. 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.
F10	Runs all marked tests.
9. When you are finished running tests, press ESC to exit the advanced tests.
10. **Optional:** Press F4 to save system and test information in the Support Ticket log file, HPSUPPT.TXT.
11. **Exit.** Remove the diagnostic disk and press F3 to exit and reboot.
12. **Optional: Check the log.** On any computer, open the HPSUPPT.TXT log file on the diagnostic disk using Notepad or other text editor. It contains a list of all test results and errors.

Specifications and Regulatory
Information

Specifications and Regulatory Information

Your OmniBook is designed to provide trouble-free operation. The following suggestions can help you maintain its dependability:

- Observe the temperature limits and other specifications listed in the next section.
- If you have problems, see the problem-solving suggestions chapter 7 of this manual.
- If you think your OmniBook might need repair service, see the warranty and service information in the *Support and Service* booklet.

To contact Hewlett-Packard

If you have questions that this manual and the online OmniBook manuals don't answer (even after looking in the contents and index), you can contact Hewlett-Packard at the address or phone number listed in the *Support and Service* booklet or in OmniBook Support in the online OmniBook Library. Please have your OmniBook with you.

To clean the OmniBook

You can clean the OmniBook with a soft cloth dampened either in clean water or in water containing a mild detergent. Do not use an excessively wet cloth nor allow water inside the case. Do not use any abrasive cleaners, especially on the display. Do not apply any cleaner directly to the display. Instead, apply the cleaner to a soft cloth and then gently wipe the display. You can clean the keyboard with a vacuum cleaner to remove accumulated dust.

Hardware Specifications

Physical Attributes	Size: 324mm×252mm×56mm (12.76"×9.92"×2.22") closed. Weight: 3.95 kg (8.7 lb.).
Processor and Bus Architecture	266-MHz Intel Pentium II processor with MMX technology (OmniBook 7100). 300-MHz Intel Pentium II processor with MMX technology (OmniBook 7150). 1.6-V core, 2.5-V external, low-power processor. 32-KB (16-KB instruction, 16-KB data) L1 cache. 512-KB pipeline-burst-synchronous L2 cache. 32-bit PCI bus.
Graphics	14.1-inch XGA active-matrix (TFT) display (1024×768×16M colors). 2D and 3D acceleration, SXGA-out and TV-out support. 64-bit ATI Rage LT Pro graphics controller with 4-MB 100-MHz SGRAM. Zoomed Video support for both PC Card slots (OmniBook 7100). Zoomed Video support for lower PC Card slot only (OmniBook 7150). 2x AGP graphics capability (OmniBook 7150).
Power	Rechargeable 12-cell lithium ion battery with LED charge-level gauge (14.4 Vdc, 4.2 AH, 60 watt-hours). Battery life (one battery): 3.25 to 4.25 hours run time. Fast battery recharge: 80% in 1.6 hours, 100% in 2.1 hours. Low-battery warning. Suspend/resume capability. 60-watt ac adapter: 100 to 240 Vac (50 to 60 Hz) input, 19 Vdc, 3.16 A output.
Mass Storage	CD-ROM / floppy disk drive combination module (OmniBook 7100). DVD / floppy disk drive combination module (OmniBook 7150). 8.1-GB or 6.4-GB removable hard drive. Optional LS-120 storage module. DVD / floppy disk drive module. Second hard disk drive module (8 GB).
RAM	OmniBook 7100 32-MB SDRAM on board. Two slots for RAM expansion up to 288 MB maximum. OmniBook 7150 64-MB SDRAM on board. Two slots for RAM expansion up to 320 MB maximum.

Specifications and Regulatory Information

Hardware Specifications

Audio System	16-bit, Sound Blaster Pro-compatible. SRS 3D enhanced audio. Dolby Digital for DVD playback (with DVD module). Stereo sound via two built-in speakers. Built-in microphone. Line-in, headphone-out, and microphone-in.
Keyboard and Pointing Device	87/88-key touch-type QWERTY keyboard with 101/102 key emulation. Embedded numeric keypad. 12 function (Fn) keys. Two pointing devices: pointing stick (technology licensed from IBM) and touch pad.
Input/Output	Universal serial bus (USB). 9-pin, 115,200-bps serial (16550 UART). 25-pin bi-directional ECP/EPP parallel. Video-out (up to 1024×768×16M colors at 75-Hz refresh rate or 1280×1024×64K colors at 60-Hz refresh rate). S-video TV-out, composite video with optional adapter. PS/2 keyboard/mouse. Two 4-Mbps IrDA-compliant infrared ports.
Expandability	One Type III or two Type II 16-/32-bit PC Card slots (3.3- and 5-V support). CardBus enabled. On the OmniBook 7150, the lower slot supports Zoomed Video. On the OmniBook 7100, both slots support Zoomed Video. Plug-in module bay for accessory modules. Optional port replicator, mini dock, and docking system.
Preinstalled Software	Microsoft Windows 95, Windows 98, or Windows NT 4.0. Windows 95- or Windows 98-compatible Plug-and-Play. Windows NT 4.0 APM and PC Card Plug-and-Play. Advanced Power Management. DMI with HP TopTools. McAfee VirusScan. Online documentation. OmniBook <i>Recovery CD</i> included. Centralized worldwide BIOS and driver update service.
Security Features	User and administrator passwords. System, hard drive, and docking passwords. PC identification displayed at boot. DMI-accessible electronic serial number. Kensington Microsaver lock slot.
Environmental Limits	Operating temperature: 5 to 35 °C (41 to 95 °F). Operating humidity: 20 to 90 percent RH (5 to 35 °C). Storage temperature: -20 to 50 °C (-4 to 122 °F).

Major ICs	OmniBook 7150 CPU: Intel Mobile Pentium II. South Bridge: PIIX4E. Video: ATI Rage LT Pro. Audio: ESS Maestro-2. CardBus: TI PCI1220A. Keyboard controller: National PC87570. Super I/O: SMC FDC37N769.
	OmniBook 7100 CPU: Intel Mobile Pentium II. South Bridge: PIIX4E. Video: ATI Rage LT Pro. Audio: Crystal CS4237B (with Crystal CS9236 hardware wavetable). CardBus: TI PCI1250A. Keyboard controller: National PC87570. Super I/O: SMC FDC37N769.

Software System Resources

Below are default values for the system resources. To see other, non-default possibilities, refer to the BIOS Setup utility, which lists port and audio device configurations in the Input/Output menu.

System Resources

The tables in this section show typical resource usage as set up by the OmniBook BIOS. Plug-and-play operating systems, drivers, and BIOS setup settings may change some of the entries.

System Interrupts

0	System timer
1	Keyboard
2	Cascade to IRQ 9
3	Free (or COM2 infrared port, if enabled)
4	COM1 (serial port)
5	Audio
6	Floppy drive
7	LPT1 (ECP parallel port)
8	Real-time clock
9	Free
10	Universal serial bus (USB) and CardBus- assigned by Windows driver
11	Free (or MIDI, if enabled). OmniBook 7100 only.
12	PS/2 mouse
13	Numeric data processor
14	Internal hard disk (primary IDE controller)
15	Internal CD-ROM drive (secondary IDE controller)

System Memory

00000 - 9FFFF	System memory
A0000 - BFFFF	Video
C0000 - CFFFF	Video BIOS
D0000 - DBFFF	Free (see below)
DC000 - FFFFF	System BIOS

Valid uses for memory addresses D0000-DBFFF:

- Upper memory blocks (UMBs).
- PC Card memory windows.

System Input/Output Addresses (100-3FF)

170-177	Internal CD-ROM drive (secondary IDE controller)
1F0-1F7	Internal hard disk (primary IDE controller)
220-22F	Audio
376	Internal CD-ROM drive (secondary IDE controller)
378-37F	LPT1 (printer port)
388-38B	Audio
3B0-3BB	VGA adapter
3C0-3DF	VGA adapter
3E0-3E1	PCMCIA controller
3F0-3F5	Floppy controller
3F6	Internal hard disk (primary IDE controller)
3F7	Floppy controller
3F8-3FF	COM1 (serial port)

DMA Channels

0	Sound record (OmniBook 7100 only)
1	Sound playback
2	Floppy drive
3	LPT1 (ECP parallel port)
4	Cascade
5	Free
6	Free
7	Free

Safety Information

Power Cords

The power cord supplied with the OmniBook 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 (HP part number F1454A), contact your local Hewlett-Packard dealer or Sales and Service office.

Power Cords		
Country	Rated Voltage and Current	HP Part Number
Canada Mexico Philippines Taiwan United States	125 Vac (3 A)	8120-6313
East and West Europe Egypt 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

W A R N I N G

Working In Comfort

Improper use of keyboards and other input devices has been associated with ergonomic injury. For information about reducing your risk, see the “Working in Comfort” document shipped with your OmniBook, or visit our ergonomics website, <http://www.hp.com/ergo>.

Battery Safety

- 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 OmniBook models. Check the *Support and Service* booklet 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 the battery is not in use, store it in the battery pouch provided.
- 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).

Safety Information

Laser Safety

The CD-ROM and DVD drives used with the OmniBook 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 service center—see the *OmniBook Support and Service* booklet.
- Do not attempt to make any adjustment of the unit.
- Avoid direct exposure to the laser beam—do not open the unit.

CLASS 1 LASER PRODUCT
LASER KLASSE 1

LED Safety

The infrared port located on the back panel of the OmniBook 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 *OmniBook Support and Service* booklet.
- 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 OmniBook complies with regulations in certain regions. Any modifications to the OmniBook not expressly approved by Hewlett-Packard could void the authority to operate the OmniBook in these regions.

U.S.A.

The OmniBook generates and uses radio frequency energy and may interfere with radio and television reception. The OmniBook 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 OmniBook with respect to the receiver.
- Connecting the OmniBook 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.

Specifications and Regulatory Information

Regulatory Information

Declaration of Conformity

Responsible Party: Hewlett-Packard Company
Manager of Corporate Product Regulations
3000 Hanover Street
Palo Alto, CA 94304
(415) 857-1501

declares that the product(s)

Trade name: Hewlett-Packard Company

Product name: HP OmniBook 7100/7150

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.

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。

Europe

Products sold in Europe by Hewlett-Packard and its authorized dealers meet the specifications listed below.

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

Manufacturer:	Hewlett-Packard Company
Address:	Hewlett-Packard Company Mobile Computing Division 19310 Pruneridge Ave. Cupertino, CA 95014
Product name:	declares that the following product HP OmniBook 7100/7150
Options:	All
Safety:	conforms to the following product specifications IEC 950:1991+A1,A2 ,A3 / EN 60950 (1992)+A1,A2, A3 IEC 825-1:1993/EN60825-1:1994, Class 1
EMC:	CISPR 22:1993 / EN 55022 (1994): Class B ^[1] EN 50082-1:1992 IEC 801-2:1991 / prEN 55024-2 (1992): 4kV CD, 8kV AD IEC 801-3:1984 / prEN 55024-3 (1991): 3V/m IEC 801-4:1988 / prEN 55024-4 (1992): 0.5 kV signal lines, 1.0kV power lines
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC, EMC Directive 89/336/EEC and IEC 825-1 and carries the CE mark accordingly. The HP F1454A ac adapter used with this product is designed to operate on all power systems, other than IT power systems. [1] The product was tested in a typical configuration with Hewlett-Packard personal computer peripherals.

Quality Department
Hewlett-Packard Company
Mobile Computing Division

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