
HP OmniBook 800

Installation and Setup Guide

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Starting Out with Your
OmniBook

Starting Out with Your OmniBook



Congratulations! Your OmniBook sets a new standard in personal computing. Although it's compact and easy to carry, the OmniBook is equipped with a full-size keyboard, its own built-in mouse, and your choice of Microsoft® Windows®95 or Windows® for Workgroups. In addition, your OmniBook has been specifically designed for ease of use on the road. It features “instant-on” power that immediately restores your last screen. And the OmniBook is infused with the quality and attention to detail that are the hallmark of Hewlett-Packard.

This OmniBook *Getting Started* manual shows how to start using your OmniBook. It also shows what to do if you run into trouble getting started.

Your OmniBook provides this additional documentation:

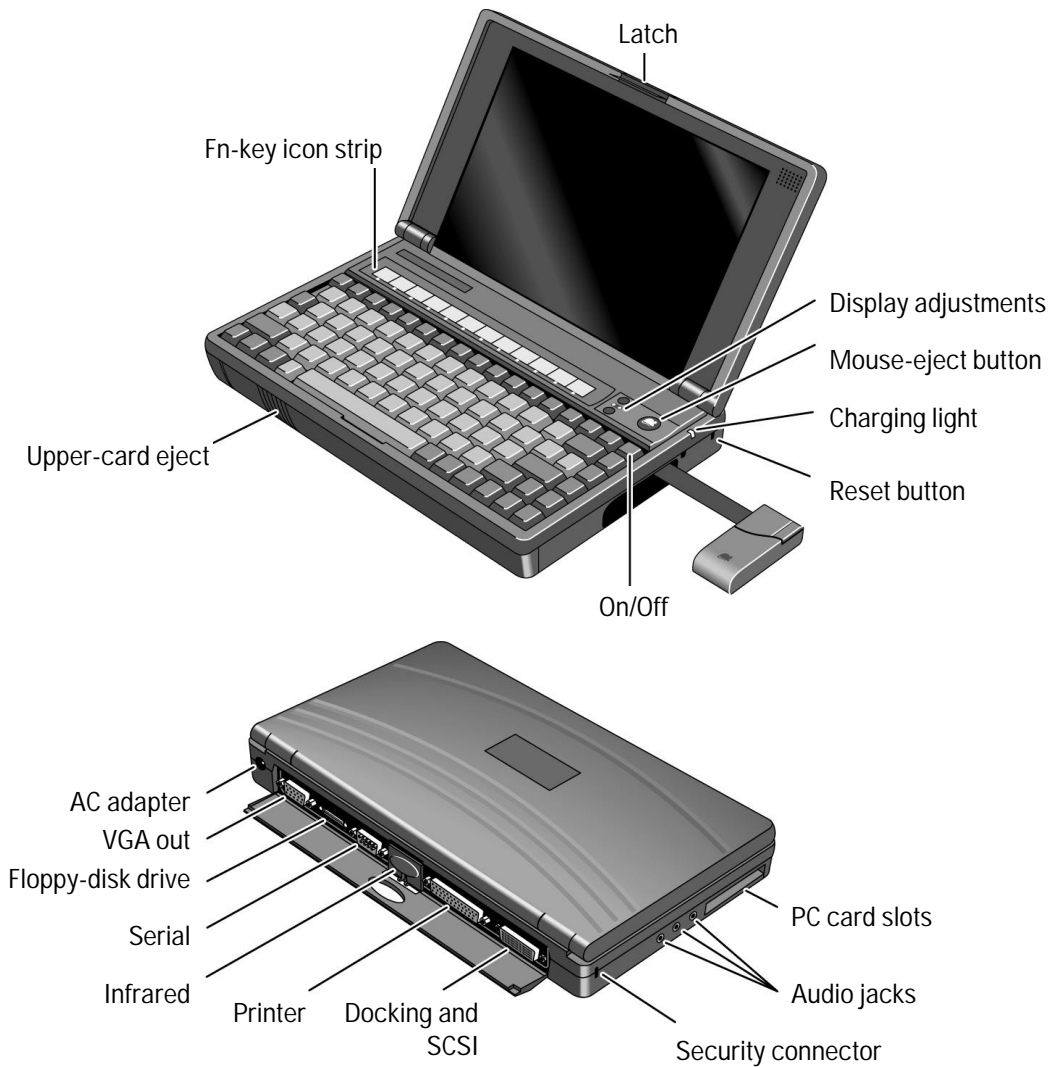
- The online OmniBook *User's Guide* : This introduces the OmniBook and shows you how to operate and maintain your OmniBook. It also contains troubleshooting information. Hold down FN and press F5 (FN+F5)—or look in the OmniBook Library.
- The *Introducing Microsoft Windows 95* manual: This is shipped with your OmniBook and contains information about using the standard features of Windows 95.
- The online *Windows Quick Start* and *MS-DOS Quick Start* manuals: These are in the OmniBook Library group for Windows 3.1 and 3.11 (Windows® for Workgroups).
- The OmniBook Website at <http://www.hp.com/go/omnibook>: The *Corporate Evaluator's Guide* at our Website provides complete information about installing alternate operating systems, as well as how to configure the OmniBook in a corporate, networked environment.
- The online OmniBook Notes: Check OmniBook Notes for late-breaking information available after the manuals were completed. OmniBook Notes are in the OmniBook Library (In Windows 95: Start, Programs, OmniBook Library. In Windows for Workgroups: Program Manager, Main, OmniBook Library.)

Setting Up the OmniBook

This chapter describes the first-time setup of your HP OmniBook hardware, including the following:

- ◆ Installing the battery.
- ◆ Connecting the ac adapter and charging the battery.
- ◆ Resetting the OmniBook.
- ◆ Adjusting the display.
- ◆ Popping out and calibrating the PS/2-compatible mouse.
- ◆ Attaching the floppy drive.
- ◆ Selecting a preinstalled operating system.

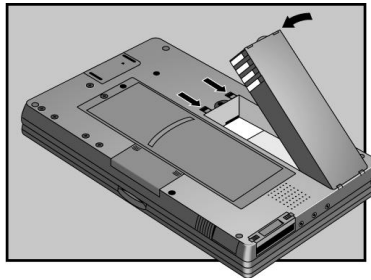
An Overview of the OmniBook



To set up the OmniBook

See “Battery Safety” in chapter 6 for the proper handling of batteries.

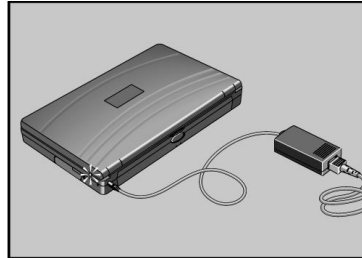
1. Install the battery.
 - Lay the battery pack into the battery compartment. The metal battery contacts on the pack mate with contacts in the compartment.
 - Close the two latches.



The battery pack contains rechargeable batteries. The first time you use your OmniBook, you should charge the battery for 1 or 2 hours before operating solely on battery power. However, you can operate immediately with the ac adapter plugged in—see the next section.

2. Connect the ac adapter and start charging.
 - Plug the power cord into the ac adapter, then into a grounded ac outlet.
 - Plug the connector from the ac adapter into the socket at the right-rear corner of the OmniBook.
 - Important: If you will not be using the ac adapter for an extended period of time, unplug it from the power source.

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Setting Up the OmniBook



The Charging Light

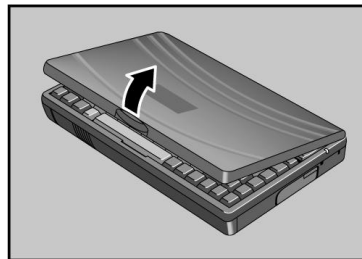
Color	Meaning for Battery
Off	Not charging (no power connection).
Green	Charging 90% - 100%.
Orange	Charging.
Red	Bad battery or missing battery.

CAUTION

Use the HP F1044B ac adapter shipped with the OmniBook, or use another Hewlett-Packard adapter intended for use with the OmniBook 800, such as the HP F1140A. *Using any other adapter could damage the OmniBook and void your warranty.* Always plug the ac adapter into a grounded outlet. Also, the adapter plug has negative polarity —the inner contact is negative, and the outer is positive. This is different from many other adapters.

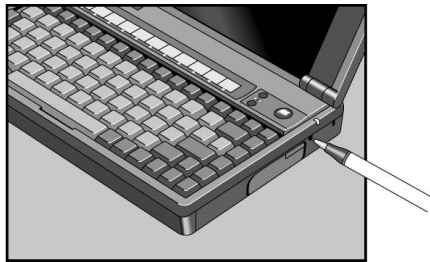
3. Open the OmniBook.

- Press the center latch and lift the lid to open the OmniBook.



4. Reset the OmniBook.

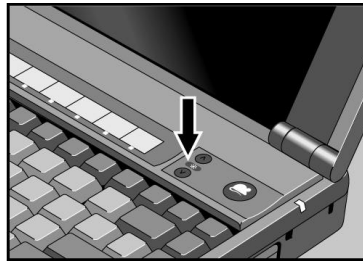
- Press the reset button: Insert a pen tip or bent paper clip into the small opening marked “RESET” on the right side of the computer. Press the recessed button for 1 to 2 seconds. The OmniBook may take half a minute or more to restart (reboot).



Pressing the reset button is similar to turning off a PC's power, then turning it back on again. After this first time, you should not need to press the reset button often.

If you have an OmniBook floppy drive attached when you reset the OmniBook, make sure there's no disk in the drive (unless you set the option in the System Configuration Utility to boot only from the hard drive). As on a PC, if there's a disk in the floppy drive, the OmniBook looks there first for its startup files.

To adjust the display



- Press the \wedge and \vee buttons above the keyboard to adjust the brightness.

Note

Keep in mind that a higher brightness setting gives a shorter battery operating time—because the internal light is using more power. This may affect the operating time by as much as 1 hour or so.

When you turn on your OmniBook, the display usually takes 1 minute or more to reach its normal brightness. The cooler the environment, the longer it takes.

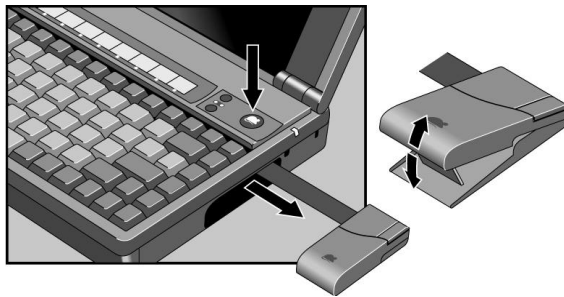
To use the mouse

The mouse is extremely sturdy. Its flexibility allows it to withstand bending and accidental bumps without breaking.

1. Eject the mouse.

- Press the round mouse-eject button in the upper-right corner of the keyboard.
- Firmly pull the mouse out past the first resistance to its full extended position—about 3 inches (8 centimeters).
- Lift the near end of the mouse—it pops up for a more comfortable shape.

Although the arm limits the *physical* extension of the mouse, it does not limit the travel of the pointer, as you will see. Just by pushing or pulling on the pointer, the pointer will continue to travel.



2. Calibrate the mouse.

When you turn on the OmniBook, you might notice that the mouse needs to recalibrate itself—that is, it needs to redefine its margins.

- Simply push or pull the mouse against one vertical limit—and then one horizontal limit—until the pointer on the screen travels to the edge of the screen.

3. When done, store the mouse.

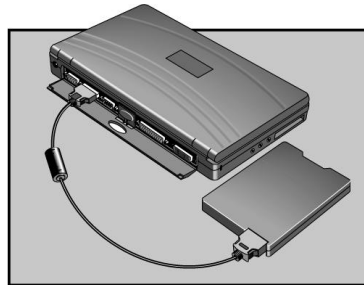
- If the mouse is popped up, press inward on the support arm and press the raised end of the mouse downward to collapse it.
- Gently push the mouse into the case opening until it latches.

To replace the mouse

1. Tug sharply on the mouse to remove it and its arm from the computer.
2. Slip the arm of the new mouse into the slot inside the mousehole on the computer. Push the arm in and force it past the first resistance.

To connect the floppy-disk drive

1. Use the floppy-drive cable (included with the OmniBook) to connect the OmniBook and the floppy-disk drive.
 - Plug the larger plug (pinching its tabs) into the back of the floppy drive.
 - Plug the smaller plug into the floppy-drive port at the back of the OmniBook.



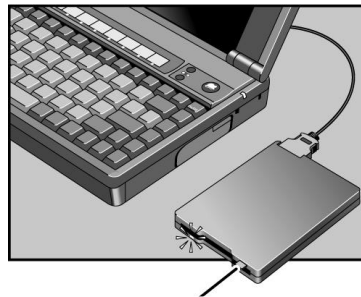
Hint

When possible, plug in the OmniBook ac adapter while you're using the floppy drive. This prevents the battery from running down.

2. Insert a floppy disk by holding it face up and sliding it into the floppy drive slot until it clicks into place.

The plug-in floppy drive accepts 3.5-inch disks (1.44 MB and 720 KB).

3. Remove a floppy disk by pressing the eject button.



Disk-eject button

C A U T I O N

Always wait until all disk activity stops (the Busy light is off) before ejecting a disk or unplugging a cable.

4. When unplugging the cable, pinch the two tabs on the plug.

To select a preinstalled operating system

When your OmniBook starts up the first time, it takes you through a series of setup screens, including installation of the operating system.

This product offers a choice between two Microsoft operating systems:

Windows 95, or

Windows for Workgroups. (See the steps below.)

As part of the setup procedure, you must make a one-time, final selection of the operating system you want to use. Once made, this selection can be changed only by purchasing new copies of MS-DOS 6.22 and Windows 3.1 or 3.11. (Windows 95 is included on the Recovery CD-ROM.)

Note

If you have a docking system, you should *not* have it connected during the installation of the operating system.

If you're installing Windows 95

After you have installed Windows 95, you should back up your initial system configuration. Microsoft provides an Emergency Recovery Utility (ERU) on the Windows 95 CD-ROM provided with your computer, in OTHER\MISC\ERU. The ERU backs up important system files, providing easy recovery of those files in case of a system failure. It is recommended that you create a new backup when you make significant changes to your system, such as adding new hardware or software. (For more information, read the file ERU.TXT.)

If you're installing Windows for Workgroups (Windows 3.11)

CAUTION

When prompted to do so, it is important that you make back-up installation disks for MS-DOS and Windows for Workgroups. This will require 12 floppy disks for English. (The back-up program will format the disks.)

You will need these installation disks to install certain drivers (such as printers and networks), as well as to recover your operating system in case of a failure. If you do not make these disks, you will need to purchase your own copies of MS-DOS 6.22 and Windows 3.11. (You can make these back-up disks at any time from the icon in the OmniBook group.)

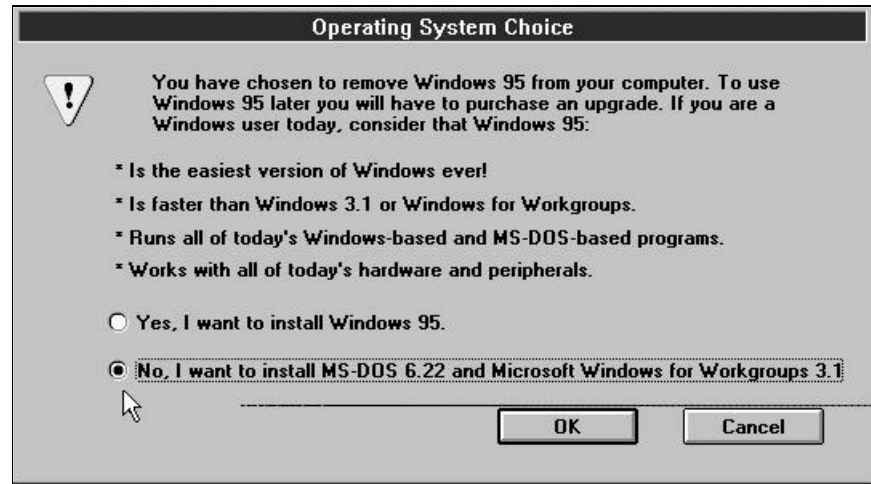
1. The Setup screens are labeled Windows 95, but they are for Windows for Workgroups, too. After you accept the License Agreement and enter the Product ID (printed on the Certificate of Authenticity on the Microsoft *Introducing Windows 95* book), you will see the Windows Version screen.
2. In the Windows Version screen, click the Change button.



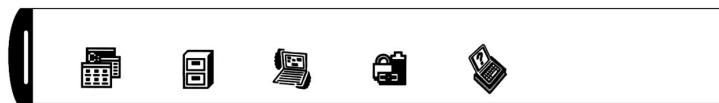
Starting Out with Your OmniBook
Setting Up the OmniBook

3. Choose the following option, then click OK:

No, I want to install MS-DOS 6.22 and Microsoft Windows for Workgroups 3.1



4. When you are done with this installation, you should swap the FN-key icon strip that slips into place at the top of the keyboard above the F1–F12 keys. Two strips are provided with your computer, but the one pre-inserted is for Windows 95. (The assignments for the F1–F12 keys differ between Windows for Workgroups and Windows 95.)



FN-key icon strip for Windows for Workgroups

Other Basics of Operation

This section introduces these basic features:

- ◆ Using FN and ALT GR keys.
- ◆ Using the Status Panel.
- ◆ Using Shortcut keys.
- ◆ Starting and stopping the OmniBook.

Using FN and ALT GR Keys

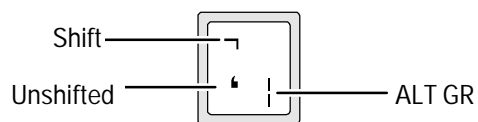
The OmniBook has these special keys and features:

- FN combination keys.

Use the gold FN key in combination with other keys to execute special functions. For example, simultaneously holding down FN and F5 (top row) opens the online *User's Guide*.

- ALT GR key.

Some keyboards (non-U.S.) have an ALT GR key to the right of the spacebar. If you have this key, hold it to type the characters printed at the bottom-right corners of keys. For keys that have four characters, hold SHIFT and ALT GR to type the upper-right characters.



Using the Status Panel

The Status Panel contains indicators for the current status of the OmniBook's C drive, keyboard locks, and battery power.



Drive C. The hard drive is active (reading or writing).



Keyboard Locks. "A" is Caps Lock, "1" is Num Lock, and the arrows are Scroll Lock .



Power. The electrical bolt means the battery is being charged. The electric plug means the ac adapter is connected and supplying power. The bars in the battery indicate relative levels of charge.

Using Shortcut Keys

The following key sequences provide shortcuts to the given features.

FN+ESC	Displays or hides the Status Panel.
FN+Home, End, PgUp, or PgDn	Moves the Status Panel to another corner.
FN+▲ and FN+▼	Increases and decreases the master volume temporarily.
FN+SPACE	Temporarily switches the master volume off (“mute”) or on.
FN+► and FN+◄	Adjusts the beeper mix/volume temporarily.
^ and v (near the mouse button)	Increases and decreases brightness.
FN+TAB	Moves a VGA-sized image to the center, to the upper left, or to full size. (By default, a VGA-sized image in the display is contracted and centered. To avoid cropping an image through an overhead projector, move it to upper left.)
FN+PrtSc	Selects an external display, both displays simultaneously, or the OmniBook display.
FN+PLUS (=) FN+MINUS (-)	Increases the bus speed to full speed. Decreases the bus speed to half speed. (Some parallel devices require the slower bus speed.)
FN+On/Off	If turn-on password protection is active, suspends (turns off) the OmniBook so the password is required at turn-on.
FN+F1	Opens the Start menu (Windows 95) or the Program Manager (Windows for Workgroups).
FN+F2	Opens the Explorer or the File Manager.
FN+F3	Opens User Tools or OmniBook Tools.
FN+F4	Opens the Status Panel configuration box.
FN+F5	Opens the <i>User’s Guide</i> .

Starting and Stopping the OmniBook

You can easily start and stop your OmniBook using the blue On/Off key. But 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 startup time.

To start the OmniBook

- Press the blue On/Off key. Either your previous session resumes or the computer reboots, depending on how you stopped the computer—see the next topic.

To stop the OmniBook

You can stop or “turn off” the OmniBook several ways, including “Instant-On” so you can quickly continue your work where you left off. That’s unlike a desktop PC that starts from scratch every time you turn it on. Often, the way you stop your OmniBook depends on how you intend to use it the next time.

- To stop with “Instant-On” with ac power, press the blue On/Off key. **Display Off:** Ready to continue immediately and maintains external connections. (Most convenient method for Windows 95 and Windows for Workgroups if ac power is available.)
- To stop with “Instant-On” on battery power, press the blue On/Off key. **Suspend:** Ready to resume immediately. You intend to continue within a week or so. (Most convenient method for Windows 95 and Windows for Workgroups if ac power is not available.)
- To shut down without saving your session, shut down Windows, then hold CTRL and ALT and press the On/Off key. (For Windows 95, the OmniBook automatically turns off when you shut down Windows.) **Off:** Starts a new session next time. Reboots at turn-on. (Standard method for Windows NT and OS/2.)

Hint

Preserving connections. If you have active network connections, or if you have any SCSI devices connected, plug in the ac adapter then press the On/Off key to stop the OmniBook. These connections and devices are disconnected if you stop the OmniBook any other way.

However, Windows 95 can restore network connections and SCSI devices when you turn on the OmniBook. For a different operating system, you may have to reboot the OmniBook or restart the operating system to restore them.

If you want to know more about what happens when you stop the OmniBook, check the following table.

Power States after Stopping the OmniBook

Method of Stopping	Power State	Condition
On/Off key (with ac adapter connected)	Display Off	Powered/operating state. The computer looks off, but only the display, keyboard, and mouse are turned off. Network and SCSI devices are maintained. Everything continues at turn-on.
On/Off key (with no ac adapter)	Suspend	Low-power/stopped state. Everything is off or in a low-power state. Network and SCSI devices are off. Everything resumes operating at turn-on. For Windows 95, SCSI changes are detected at turn-on.
CTRL+ALT+On/Off key	Off	Low-power/stopped state. Everything is off or in a low-power state (battery charges if ac adapter is connected). Computer reboots at turn-on.

For Windows 95, the Start button provides two commands that stop the OmniBook.

- Suspend changes the OmniBook to the Suspend state.
- Shut Down (Shut down the computer) changes the OmniBook to the Off state.

If you plug in the ac adapter while the OmniBook is stopped, battery-charging components are activated, but the OmniBook stays in the same power state. On the other hand, if you unplug the ac adapter while the OmniBook is in the Display Off state, it changes to the Suspend state.

Starting Out with Your OmniBook
Starting and Stopping the OmniBook

In addition, Advanced Power Management (APM) provides several automatic power-saving features that affect the power state. You can adjust settings in the System Configuration Utility to control features such as:

- If the OmniBook is running on battery power and there's no activity for a short period of time, it automatically stops by changing to the Suspend state.

To reset and restart the OmniBook

If Windows or the OmniBook gets stuck and stops responding—and you can't recover in Windows—you can reset the OmniBook and restart Windows.

1. If possible, shut down Windows.
2. Press CTRL+ALT+DEL to reboot the OmniBook.

–or–

Insert a ball-point pen tip or straightened paper clip into the small hole below the charging light and press the reset button inside the hole. Resetting is more complete than rebooting because it resets even locked-up components.

3. Optional (available in Windows for Workgroups): When the OmniBook displays a list of configurations, you may press SPACEBAR to stop the 5-second time-out. You may then press a number key and ENTER to select a particular configuration. If you do nothing, the OmniBook uses its default configuration.

If these actions have no effect, remove the battery and ac adapter and press the reset button. Then install the battery or plug in the ac adapter and try pressing the reset button again.

Hint

Rebooting from a floppy disk. If you want to reboot from a boot disk in the floppy drive, put the disk in the floppy drive before you restart the OmniBook. For example, you can reboot from the *Support Utility* disk, then use the commands on this disk to check your hard disk.

Reinstalling Windows

Reinstalling Windows

This chapter has instructions for installing or recovering an operating system. You can install or recover

- ◆ Windows 3.1 or 3.11 from your own disks (that is, back up disks created during the initial installation of Windows, or purchased disks).
- ◆ Windows 95 from the *Recovery CD* that came with the OmniBook.
- ◆ Other HP programs, online *User's Guide*, and drivers from the *Recovery CD* that came with your OmniBook.
- ◆ Windows NT and OS/2 Warp from your own disks, and using instructions and drivers from the *Corporate Evaluator's Guide* on our website at <http://www.hp.com/go/omnibook>. In addition, this site contains the latest updates of software drivers, and information on configuring the OmniBook in a corporate, networked environment.

You can also create a FAT32 (*file allocation table, 32-bit*) hard-disk configuration using either the *Recovery CD* or a separate product, such as PartitionMagic by PowerQuest. Using the *Recovery CD* to create a FAT32 hard-disk configuration necessitates *erasing the hard drive* and making a floppy boot disk.

Note

As part of your initial setup of the computer, you have one opportunity to select one of the pre-installed operating systems. See chapter 1.

What the Recovery CD Contains

You will need the *Recovery* CD-ROM and the *Support Utilities* floppy disk to recover the Windows 95 operating system or HP pre-installed software.

Directory	Contains...
README.TXT text file	Instructions for using the <i>Recovery</i> CD.
RECOVER\	
ENC	Encrypted Microsoft Windows 95 recovery files. (Usable only in conjunction with the <i>Support Utilities</i> disk.)
BOOTDISK and BOOTDISK.F32	For creating your own copy of a boot disk (like the <i>Support Utilities</i> disk). You will need to edit the resulting boot disk if you are <i>not</i> using a SCSI CD-ROM drive for the <i>Recovery</i> CD. Use BOOTDISK.F32 to create a FAT32 boot disk.
FILE.CHK and FILE32.CHK	Checksum program. Checksum program for FAT32.
README text file	Same as README.TXT
OMNIBOOK\	
HPADDON.WFW	For Windows 3.1 and Windows for Workgroups: Use this for the easiest setup after installing Windows for Workgroups. Installs necessary drivers and optional OmniBook software for an HP-type load.
HPUTILS	For Windows 3.1, 3.11, and 95: Use this to pick and install optional HP OmniBook applications, including Appointment Book, Phone Book, Calculator, the online <i>User's Guide</i> , Tools, Diagnostics, and icon-strip printing.
DRIVERS	Installs <i>individual</i> audio, video, SCSI, and PC-Card (PCMCIA) drivers for various operating systems (MS-DOS, OS/2, Windows of all types). Look for the specific driver for the specific version of your operating system. Each driver has a README file with instructions.
MANUALS	User's guides under \W95 and \WFW. Use this for direct viewing of the guide from the CD, not for its installation.
WFW_DRV	Installs and updates <i>all</i> WfW drivers.

The following sections tell you how to set up and start a recovery installation. Refer to the README text file on the *Recovery* CD and the *Support Utilities* disk for step-by-step instructions.

Reinstalling Windows 95

Follow these instructions to re-install the Windows 95 operating system (950 B) that came with your OmniBook. (To obtain the 950A version of Windows 95, refer to information in the README.TXT file on the *Recovery CD*.)

These steps will delete any software or files you may have installed or created on your hard disk since the original setup.

You will need the OmniBook, its ac adapter, a floppy drive, and a CD-ROM drive (preferably SCSI-type). You also need the *Recovery CD-ROM* and the *Support Utility* floppy disk. If you have a docking system, you can leave the OmniBook docked during most of this procedure.

To reinstall Windows 95 and original HP software on drive C:

1. Plug in the ac adapter to the OmniBook. Turn *off* the OmniBook.
2. Connect a SCSI CD-ROM drive (HP part number F1196A) to the OmniBook's docking/SCSI port according to the CD-ROM drive's instructions. (This requires a special OmniBook-to-SCSI adapter cable, HP part number F1182A, unless you are using a docking system.) If you have a non-SCSI CD-ROM drive (parallel port or PC-card slot), read the README.1ST file on the *Support Utilities* disk.)
3. Turn on the CD-ROM drive and insert the *Recovery CD-ROM* —make sure you use the correct CD-ROM.
4. Connect the floppy drive to the OmniBook. Insert the *Support Utility* floppy disk into the floppy drive.
5. Reboot the computer from the floppy by pressing the reset button. (To reboot from the floppy drive, the System Configuration Utility must have System, Boot Devices set to FDD First.)
6. When you see a menu of startup options, select Reinstall All Original Files for Windows 95. Follow the instructions and *do not interrupt the file-transfer process*.

When the process finishes, your hard disk contains the original files. *This process can take an hour or more.*

Reinstalling Windows for Workgroups

Follow these instructions to install or re-install a Windows 3.x operating system. If you made back-up disks when setting up the pre-installed Windows for Workgroups, you can use those disks to re-install the operating system that came with your OmniBook. Otherwise, you can install Windows 3.x from your own purchased copies of these disks.

These steps will delete any software or files you may have installed or created on your hard disk since the original setup. Back up what you would like to save.

You will need the OmniBook, its ac adapter, a floppy drive, and a CD-ROM drive (preferably SCSI-type). You also need the *Recovery* CD-ROM and the *Support Utility* floppy disk. If you have a docking system, you can leave the OmniBook docked during most of this procedure.

To reinstall Windows for Workgroups and original HP software

1. Install DOS 6.22 (from back-up installation disks or from purchased software) onto drive C as follows:

Insert MS-DOS disk #1 into the floppy drive. Switch to drive A, then format drive C by typing `FORMAT C: /U`. If you cannot format the drive, type `FDISK C:` and choose option 1 to prepare the drive for formatting. Reboot the computer and follow the instructions in the display. Install the fourth disk separately: at the `A:` prompt, type `SETUP C:\DOS`. When prompted for installation choices, choose All Components, and choose the VGA display driver. Reboot when done.

2. Install Windows for Workgroups (from back-up installation disks or from purchased software) onto drive C as follows:

- Insert disk #1 and type `A: SETUP`.
- Choose the Express Setup.
- *Select all defaults for this installation. Do not* install any printers or networks. Install them after the rest of this installation is complete.

The installation does not use all of the Windows disks.

Reinstalling Windows

Reinstalling Windows for Workgroups

3. Connect a SCSI CD-ROM drive (HP part number F1196A) to the OmniBook's docking/SCSI port according to the CD-ROM drive's instructions. (This requires a special OmniBook-to-SCSI adapter cable, HP part number F1182A, unless you are using a docking system.) If you have a non-SCSI CD-ROM drive (parallel port or PC-card slot), read the README.1ST file on the *Support Utilities* disk.)
4. Turn on the CD-ROM drive and insert the *Recovery* CD-ROM —make sure you use the correct CD-ROM.
5. Insert the *Support Utilities* disk into the floppy drive.
6. Exit Windows, if necessary, then reboot the OmniBook from the *Support Utilities* disk by pressing the reset button. (To restart from the floppy drive, the System Configuration Utility must have System, Boot Devices set to FDD First.)
7. Select the option Install Windows for Workgroups Drivers and HP Applications Software, which loads the special drivers you need with the OmniBook. It also loads OmniBook-specific software: the online *User's Guide*, the Appointment Book, the Phone Book, the HP Calculator, OmniBook diagnostics, OmniBook Tools, and the icon-print routine for shortcut key assignments.
8. Select the WfW Install option appropriate for your CD-ROM drive: SCSI port or PC-card slot/parallel port.

This re-installation process can take an hour or more. When the above installation is done, you can use Windows to add printers and enable networks.

Reinstalling HP Applications

If you have deleted the online *User's Guide*, HP Tools, or any of the Personal Information Management software, you can reinstall them from the *Recovery* CD-ROM.

To install HP software programs

1. Connect the ac adapter and the CD-ROM drive as described in the previous procedures.
2. Insert the *RecoveryCD*. Run OMNIBOOK\HPUTIL\DISK1\SETUP.EXE.
3. The OmniBook Application Software Setup menu appears. Select the HP applications you would like to install, then click Install Now.

To read the User's Guide on another computer

Insert the *Recovery* CD and run HPBOOK.EXE under OMNIBOOK\MANUALS\W95 or OMNIBOOK\MANUALS\WFW. (There are two versions of the *User's Guide*: Windows 95 and Windows for Workgroups.)

Installing Windows NT or OS/2 Warp

You provide the software to install these alternate operating systems. See the *Corporate Evaluator's Guide* at our website for complete information on installing these operating systems, as well as how to configure the OmniBook in a corporate, networked environment. You will need OmniBook-specific drivers. The drivers for alternate operating systems are located

- On the *Recovery* CD-ROM, under OMNIBOOK\DRIVERS.
- On the OmniBook's hard drive under C:\OMNIBOOK\DRIVERS.
- On our website at <http://www.hp.com/go/omnibook> . This site contains the latest updates of software drivers.

Different versions of an operating system require different drivers, so make sure to select the appropriate driver.

CAUTION

Before you start installing a new operating system, make sure the drivers you need will be accessible after the installation . Copy them from the web site or the hard drive to a floppy disk, or use the *Recovery* CD with a CD-ROM drive.

Expanding the OmniBook

Expanding the OmniBook

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

- ◆ Replacing internal hardware.
- ◆ Connecting external devices.



Replacing Internal Hardware

This section describes how to

- ◆ Remove and install the hard-disk drive.
- ◆ Install a memory-expansion board.

Instructions on installing the battery are in chapter 1.

To replace the hard-disk drive

You normally don't remove drive C, the main internal disk (also called the "hard-disk drive"). The two main reasons to replace drive C are for upgrade and for repair. *If you do replace the hard-disk drive, be sure the new one also has "Drive Lock" hard-drive security.*

CAUTION

Back up your files before replacing the drive.

Take precautions against damage from static electricity. Gather all the parts you need so you can complete the installation in one sitting. Don't remove the drive from its packaging until you're ready to insert it.

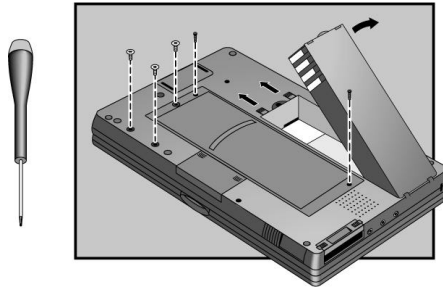
When you remove the drive from its packaging, hold it only by its edges.

Turn off the computer, unplug the ac adapter, and remove the battery before removing the hard drive. Otherwise, the OmniBook or the hard drive may be damaged.

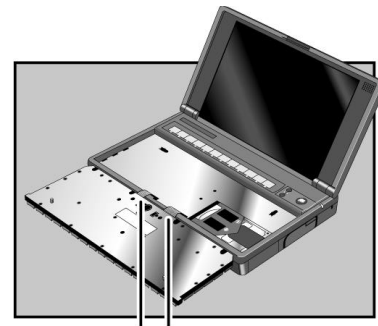
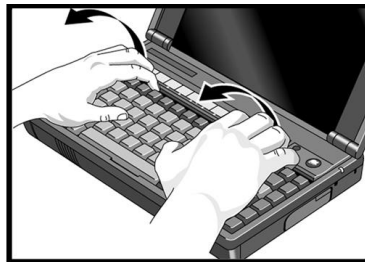
1. Back up all the files on your current drive C. You can back up the files to a tape drive, a network drive, a PC card, or a floppy disk. In Windows 95, use the Backup utility (Start, Programs, Accessories, System Tools, Backup, Backup tab). In Windows for Workgroups, you must back up individual files (File Manager) or use a commercial backup program.
2. *Important:* Turn off the unit, unplug the adapter, and remove the battery.

Expanding the OmniBook
Replacing Internal Hardware

3. Close the cover and turn your computer over. Using a Torx-T6 screwdriver, remove the five screws holding the hard drive and the keyboard in place (the exact locations vary with the type of hard drive).

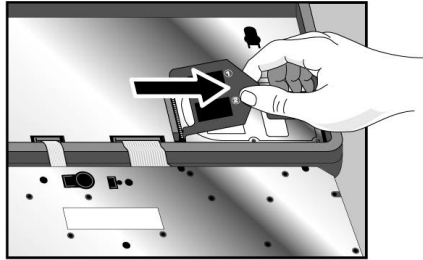


4. Turn the computer back over. Remove the keyboard by inserting your fingertips between the top row of keys (the F keys) and the case and then lifting. Then fold the keyboard *gently* forward so that it lies upside down on the table. *Do not pull up on the keyboard. Keep the ribbon cables tucked in the case, otherwise you will need to tuck them back in with a paper clip. Do not pick up the computer while the keyboard is out.*



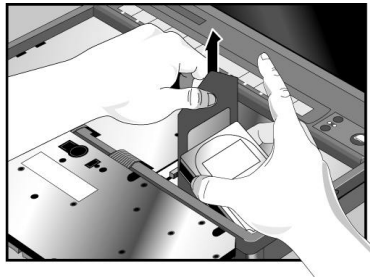
Ribbon cables

5. Important: Disengage the hard drive connectors by grasping the left flap of the plastic insulator and pulling to the right as shown.



6. CAUTION: Handle the hard drive only by its edges to avoid damage from electrostatic discharge .

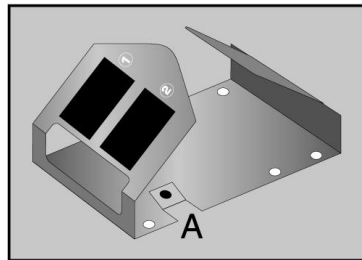
Lift up on the left flap of the insulator sheet and remove the hard drive. The insulator sheet stays in place.



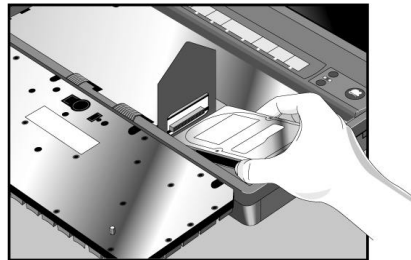
7. Important: If your new hard drive is from a different manufacturer than the old one, it may have screws in different positions. Determine which mounting holes you need; then, if necessary, push out rubber screw-hole covers from the inside using a bent paper clip. (From the outside of the computer, insert the rubber covers into the holes you won't need.)

Expanding the OmniBook
Replacing Internal Hardware

If your new hard drive has screws in different positions from the old one, you will also need to adjust the insulator sheet. Compare the location of the screw-holes in the new hard drive with those in the insulator sheet. If there is *no* screw at position A, then *unfold* the flap at position A, and lay it flat before laying the hard drive down on the insulator.

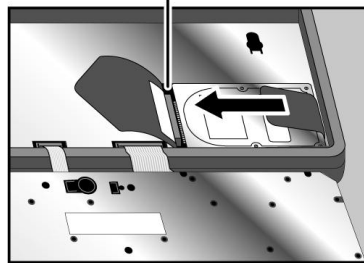


8. Holding the new hard drive by its edges, lay it in place. The right edge of the hard drive should be flush with the edge of the compartment.

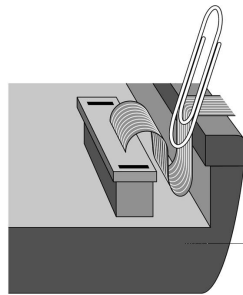


9. Grasp the right flap of the insulator and pull to the left to engage the connection between the hard drive and the computer. *Do not push down on the hard drive.* If the hard drive's connectors do not engage the computer's connectors, pull the hard drive back out and try again. Then fold the insulator sheet back over the hard drive.

Connectors align here.



10. If the ribbon cables are no longer tucked into the frame, then push them back into the recessed openings with a paper clip, as shown below. Re-insert the keyboard by engaging the four front tabs on the keyboard into the four slots in the computer frame, pressing down on the keyboard as you insert the tabs. Make sure the ribbon cables slide into the recessed openings *and do not extend under the keyboard.*



11. Close the OmniBook, turn it over, and re-insert the five screws removed in step 3.

CAUTION: Be sure you are using the correct screw holes for the *new* drive, as determined in step 7. The new hard drive might use different holes from the old hard drive.

Do not over-tighten the screws—screw just until you feel resistance.

12. Insert the battery. Connect the ac adapter.
13. Press the reset button.
14. Install Windows and the original software on the new drive C using the *Recovery* CD-ROM—see “To reinstall Windows and original HP software” under “Reinstalling Windows” in chapter 2. Also check the README file on the *Recovery* CD for instructions.
 - There are different procedures for Windows 95 and Windows for Workgroups.
 - For other operating systems, re-install the operating system from your own source first, then load the OmniBook-specific software.
15. Restore the files you backed up from the old drive C. In Windows 95, use the Backup utility (Start, Programs, Accessories, System Tools, Backup, Restore tab).

Adding Memory to the OmniBook

The OmniBook memory-expansion slot accommodates one memory-expansion board. You can install a memory-expansion board to increase the total amount of memory. (To find out your OmniBook memory size, see HP User Tools in Windows 95 or OmniBook Tools in Windows for Workgroups.)

CAUTION

Take precautions against damage from static electricity:

Gather all the parts you need so you can complete the installation in one sitting.

Don't remove the memory-expansion board from its packaging until you've removed the slot cover from the OmniBook.

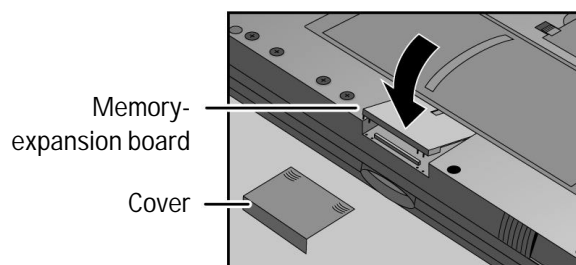
When you remove the board from its packaging, hold it only by its edges. Don't touch the electronic components or gold traces.

Also, close all applications, exit Windows, shut down the computer, unplug the ac adapter, and remove the battery. Otherwise, the OmniBook or memory-expansion board may be damaged.

1. Exit Windows; otherwise, your current session and any unsaved data will not be preserved.

Important: Turn off the unit, unplug the ac adapter, and remove the battery.

2. Turn the OmniBook over. Press your thumbs against the ridges on the memory-slot cover and push the cover off of the memory-expansion slot.



3. If a memory-expansion board is already present, pull out the original board by its plastic edge.
4. Drop the new memory-expansion board in at an angle to fit under the edge of the opening. Align the four little posts on the plastic ridge with the four small holes in the front edge of the expansion slot. Press the board by its ridge until it is completely seated.
5. Reinstall the slot cover, insert the battery, and reset the computer.
6. If you are running Windows for Workgroups, you must update the Cache Size and restart the computer before using the new memory board.

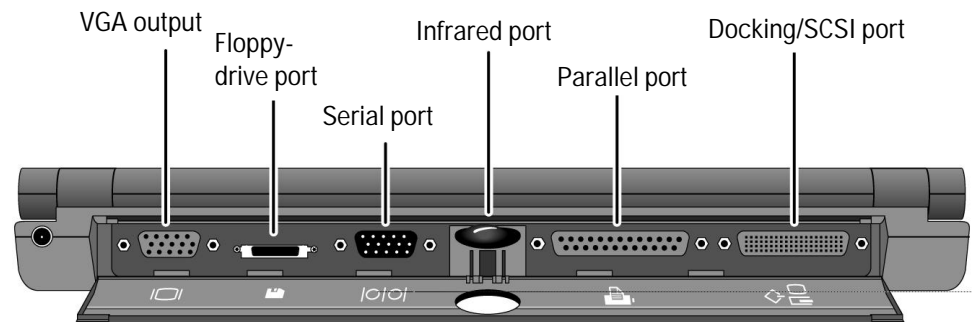
In Control Panel (in the Main group in Program Manager), choose the Enhanced icon, then choose Virtual Memory and Change. First clear the Use 32-Bit *File* Access option, if necessary, then select this option again. This updates the Cache Size setting. Choose OK to save the new setting. When prompted, choose Restart Windows to activate the new setting.

Connecting External Devices

This section describes how to connect the following devices to your OmniBook:

- ◆ PC cards.
- ◆ An external monitor.
- ◆ A serial device.
- ◆ An external mouse.
- ◆ A printer (parallel device).
- ◆ A SCSI device.
- ◆ An infrared device.
- ◆ A microphone, headphone, or speaker.

When you open the panel on the back edge of the OmniBook, you will see these ports:



Using a PC card

The OmniBook supports two kinds of plug-in PC cards:

- Data storage cards, often called “disks”.
- Input/Output (I/O) cards, typically providing external connections, such as modems and networks.

The OmniBook card slots support the PC Card Standard, type II and III cards. You can use two thin cards or one thick card. The upper card slot supports Zoomed Video, which allows a zoomed video card to show high-quality multimedia presentations.

For information about compatible cards, visit our Web site at <http://www.hp.com/go/omnibook>. Or, contact Hewlett-Packard as described in the *Support and Service* booklet or in OmniBook Support in the online OnmiBook Library.

CAUTION

Do not install Card Services or Socket Services software if it comes with your PC card. The OmniBook includes Card Services and Socket Services, which automatically notice and adapt to PC cards you install. Different versions of this software will disrupt this support.

CAUTION

When using Windows 95 and a PC card, close all files and applications that are open to it before turning off the OmniBook. Otherwise, you could lose data.

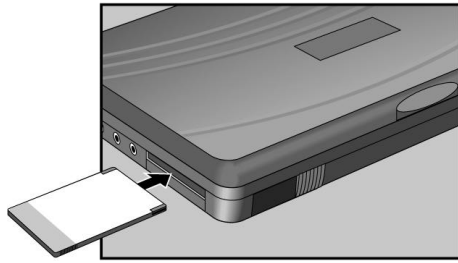
Hint

The upper card slot is the most convenient for a plug-in card that you want to remove easily or often.

The lower card slot is better for a plug-in card that you don't want to remove accidentally. If the card has an external connection, make sure it's accessible through the cutout in the tray.

To insert a PC card into the upper slot

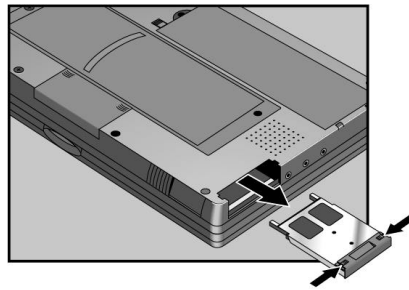
- Hold the card with its face up and its connector holes toward the card slot, then slide it into the slot until it won't go any further. The card should be about flush with the case.



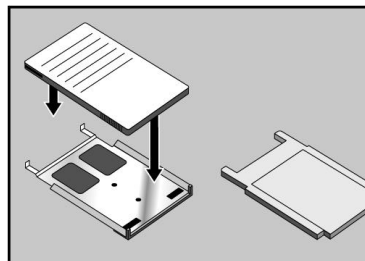
- The OmniBook automatically detects and sets up a PC card when you insert it into a card slot.

To insert a PC card into the lower slot

1. Turn over the OmniBook, release the two latches on the bottom of the slot tray, and pull out the tray.



2. Lift or push the plastic spacer out of the tray. (Save the spacer in case you remove the card later—it keeps dust and dirt from getting inside the case.)
3. Install the new card into the tray with its face up and its connector holes toward the metal tabs at the end of the tray.



4. Slide the tray fully into the slot and secure its latches.

Read-Write Switch. If the card has a read-write switch, make sure it is in its “read-write” position if you want to do data storage. If, on the other hand, you want to protect data from being changed, set the switch to its “read-only” position.

To remove a PC card

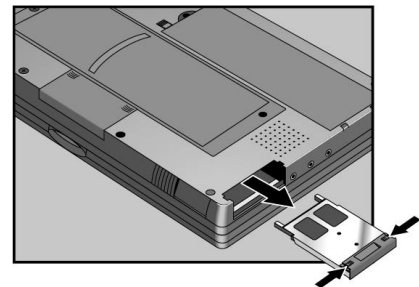
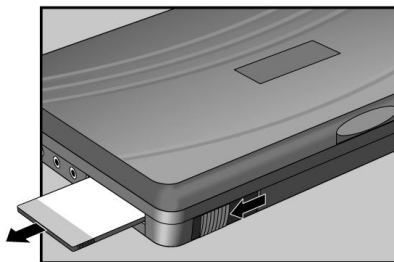
CAUTION

Do not remove a disk while it is actively reading or writing. If you remove a disk while it is active, its data could become corrupted. Do not remove an I/O card while an application is open that is set up to use that card. Exit the application first. Otherwise, the application or the computer might behave unpredictably or stop responding until you restart the OmniBook.

1. If you are using Windows 95, stop the PC card before ejecting it: Click the PC Card indicator in the taskbar, then click the Stop command for the PC card. (To restart a card, remove it, then insert it again.)
2. For a card in the upper card slot, slide the card-eject lever toward the end of the case until the card pops out, then pull out the card.

—or—

For a card in the lower card slot, turn over the OmniBook, release the two latches on the bottom of the slot tray, and pull out the tray.



To connect an external monitor

1. Make sure that the external display supports VGA or SVGA format.
2. Plug the VGA cable from the back of the external display into the VGA connector at the back of the OmniBook.

VGA connector



The OmniBook automatically recognizes and activates the external display and turns off the internal display. To change the active display, press FN+PrtSc. If you keep the internal display on, you might notice a slight dimming.

If the display resolutions of the internal and external displays are not the same, panning might result. To resolve this, turn off the internal monitor or change the display settings (Windows 95: Control Panel, Display, Settings, Desktop area; Windows for Workgroups: OmniBook Tools, Display Options, Video Configuration).

To connect a serial device

The OmniBook's 9-pin serial port is a standard serial port. The most common types of serial connections are to printers, modems, and other computers. You can use standard serial cables and adapters available at computer dealers and electronic supply stores.

- Attach the serial cable from the serial device to the serial connector at the back of the OmniBook.

Serial connector



To connect an external mouse

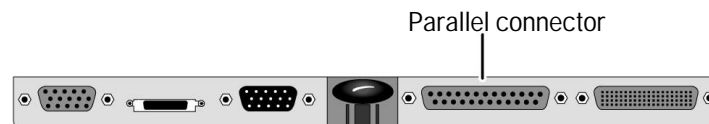
1. You will need to use a 9-pin *serial mouse* and connect it to the serial port (above).
2. Activate the new mouse by selecting the mouse type and driver.
 - In Windows 95, open the Control Panel, Mouse, General, and select the mouse type (such as Standard Serial Mouse or Microsoft Serial Mouse).
 - In Windows for Workgroups, open Windows Setup (in the Main group), Options, Change System Settings, and select the mouse type “Mouse Systems Serial or Bus Mouse”. Click OK, and follow the instructions, including restarting Windows.

To re-activate the internal mouse, select the PS/2 mouse type.

To connect a printer or other parallel device

The OmniBook’s 25-pin parallel port is a standard enhanced parallel port (EPP/ECP). The most common types of parallel connections are to printers and other computers. You can use standard parallel cables and adapters available at computer dealers and electronic supply stores.

1. Attach the parallel cable from the parallel device to the connector at the back of the OmniBook.
2. If necessary, install the driver for your printer or other device. See your Windows (or other operating system) manual for instructions.



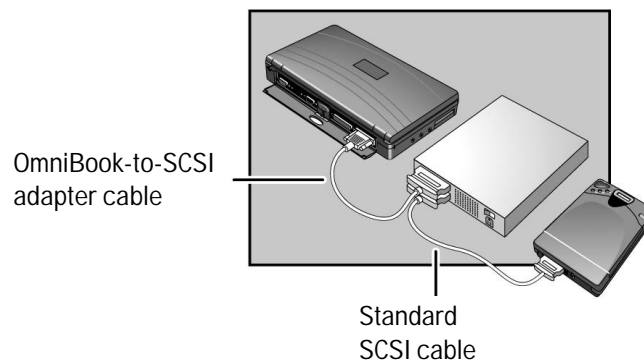
If a parallel device is not working correctly, its bus speed might be too slow for the OmniBook. You can decrease the OmniBook’s bus speed by pressing FN+MINUS. To restore the original bus speed, press FN+PLUS.

To connect a CD-ROM drive or other SCSI device

The OmniBook's SCSI (Small Computer Systems Interface) port commonly connects to CD-ROM drives, hard-disk drives, and tape drives.

SCSI devices are disabled whenever you turn off the computer.

1. You will need an OmniBook-to-SCSI adapter cable (part number F1182A).
2. Each SCSI device must be set to a different SCSI ID number, ID 1 through ID 6. See the device's documentation for instructions for checking and changing the device's ID.
3. Set the SCSI bus termination for each device. The device at the physical end of the SCSI bus must be terminated, while the devices in the middle of the bus must have their terminators removed or disabled. See the device's documentation for instructions.
4. Turn off the OmniBook, then connect the SCSI device to the OmniBook with an OmniBook-to-SCSI adapter cable. Connect the peripheral devices to the docking system one after the other—a "daisy-chain" connection.



5. Plug each SCSI device into a proper electrical outlet.

Expanding the OmniBook
Connecting External Devices

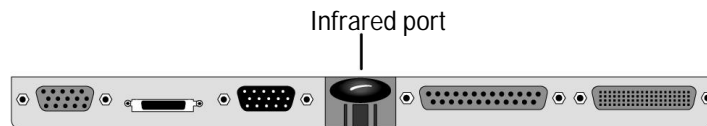
6. If you're using Windows 95, the OmniBook automatically detects the new device and sets it up for you. If necessary, Windows requests information about the device.

—or—

If you're using Windows for Workgroups, exit Windows and reboot the OmniBook (press CTRL+ALT+DEL).

To connect an infrared device

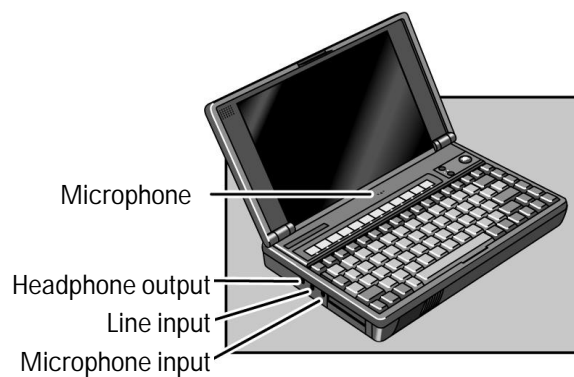
1. Line up a device's infrared port with the infrared port at the back of the OmniBook. The optimum distance is half a meter or less.
2. Start the IR Monitor. In Windows 95, this is in the Start menu. In Windows 3.1, it is in OmniBook Tools. Refer to the online *User's Guide* for more information about infrared connections.



To connect a microphone, headphones, or speakers

The OmniBook has a built-in microphone and two speakers. The speakers are stereo, but both play a mix of the right and left channels. You can connect an external microphone and external speakers *or* external headphones.

- Plug a microphone into the microphone jack.
- Plug speakers or 8-ohm headphones into the headphones output jack. (This automatically turns off the internal speakers.)
- Plug a stereo input source into the line input jack.



Changing the Configuration

Changing the Configuration

This chapter describes OmniBook tools and utilities to adjust configuration settings:

- ◆ HP User Tools (Windows 95 operating system only).
- ◆ OmniBook Tools (Windows 3.1 operating systems only).
- ◆ System Configuration Utility (operating-system-independent).

You can use the System Configuration Utility (SCU) or the Tools application to change OmniBook configuration settings. The SCU provides more options for certain settings.



Where You Can Change Settings

Settings	HP User Tools (Windows 95)	OmniBook Tools (Windows for Workgroups)	SCU
Display, keyboard, mouse			
Display resolution		x	
Display switching	x	x	x
Keyboard setup		x	x
External keyboard setup	x	x	x
Pointing device setup		x	
External pointer setup	x	x	x
Status Panel setup	x	x	x
Power management			
Time-out setup	x	x	x
Advanced power setup			x
Port Activity	x	x	x
Connections			
Printer setup		x	
PC card setup		x	
COM port setup		x	x
Printer port setup			x
IrDA setup		x	x
Security			
Password setup			x
PC identification	x		x
Hard disk security			x
Other			
Date and time		x	x
Sound volume		x	x
Boot setup			x
Cache setup			x
Memory size	x	x	x
BIOS version	x	x	x

Another resource to change settings is Windows Control Panel.

Using HP User Tools

HP User Tools give you a convenient way in Windows 95 to change the way your OmniBook looks and operates. For many settings, it's an alternative to using the System Configuration Utility.

To run HP User Tools

1. Click Start, HP User Tools.
2. Click the tabs and buttons for the changes you want to make. You're prompted if you need to reboot the computer. Click Help or see the table below for more information.
3. After you make the changes, exit HP User Tools.

Settings	
OmniBook External Devices	<p>HP OmniBook Display: Sets whether the built-in display is on or off when an external display is present. Also can override automatic detection of an external display. (You can press FN+PrtSc at any time to cycle among the different display combinations.)</p> <p>External Input Devices: "Enable External FN Key" lets you press CTRL+ALT instead of FN on an external keyboard with no FN key. "Ignore External Pointing Device" activates the built-in mouse when an external mouse is connected.</p>
OmniBook Status Panel Setup	<p>"Disable Status Panel" sets whether the Status Panel can be displayed. "Position" sets the corner of the display where the Status Panel appears. "Show Status Of" sets when each indicator appears in the Status Panel.</p>
OmniBook Power Management	<p>"Options for Battery Power" balances the tradeoffs between power savings and performance speed while operating on battery power. Click Custom to set time-outs individually. "Idle Time Before Turn-Off" shows the individual timeouts. "Auto Turn-off on AC" sets whether the computer turns off when the ac adapter is connected. "Port Activity" lets you select ports that don't override automatic turn-off. Opens the Windows Control Panel for changing other settings. Opens the OmniBook <i>User's Guide</i> and other online sources of information.</p>
Control Panel	
Library	
Information	
License Agreement	Shows the HP software license agreement.
OmniBook Support	Shows how to get support for the OmniBook.
OmniBook System Information	Shows the BIOS version and the amount of system memory.
OmniBook PC Identification	Lets you define four text strings for name, title, company, address, phone, etc. This text appears each time the computer restarts.
OmniBook Password Status	<p>"User Password Required" shows whether a password is required when the computer starts, or before undocking. "Admin Password Required" shows whether PC ID changes are protected by the administrator password. Use the SCU to change the password status.</p>
Resource Allocation	Shows resource settings for I/O devices.

Using OmniBook Tools

OmniBook Tools give you a convenient way in Windows for Workgroups to change the way your OmniBook looks and operates. For many settings, it's an alternative to using the System Configuration Utility.

To run OmniBook Tools

1. In Program Manager, double-click the OmniBook Tools icon (in the Main group).
2. Click the buttons for the changes you want to make. You're prompted if you need to reboot the computer. Click Help or see the table below for more information.
3. After you make the changes, exit OmniBook Tools.

System Information	Shows current port settings and system memory.
Personalize Desktop, Color, Date/Time, International Status Panel Settings	Sets Windows desktop, color, date and time, and international settings. "Enable Status Panel" sets whether the Status Panel can be displayed. "Location in Display" sets the corner of the display where the Status Panel appears. "Configuration" sets when each indicator appears in the Status Panel.
Display Options	"OmniBook Display" sets whether the built-in display is on or off when an external display is present. (You can press FN+PrtSc at any time to cycle among the different display combinations.) "Video Configuration" sets the number of dots used to display the entire screen image, the number of colors available, and other display options. "Display Messages" sets whether reminder messages appear when you dock or undock.

Sound Applications	
Volume and Mixer	Opens the Volume and Mixer windows for adjusting volume and balance.
Media Player	Starts the Windows Media Player application.
Sound Recorder	Starts the Windows Sound Recorder application.
Connections	
COM Ports	Sets the serial port address and interrupt.
Printers	Sets printer options.
Card Slots	Starts the CardWizard application for managing PC cards.
Infrared Communications	Starts IrMonitor or sets when it starts. IrMonitor provides IrDA communications.
Input Devices	
Pointing Devices	"Enable External FN Key" lets you press CTRL+ALT instead of FN on an external keyboard with no FN key. "Ignore External Pointing Device" activates the built-in mouse when an external mouse is connected.
Keyboard	Sets pointing device or mouse settings. Sets keyboard repeat settings.
Power Management	"Options for Battery Power" balances the tradeoffs between power savings and performance speed while operating on battery power. Click Custom to set timeouts individually. "Turn-Off Times on Battery Power" shows the individual timeouts for operation on battery power. "Auto Turn-off on AC" sets whether the computer turns off when the ac adapter is connected. "Port Activity" lets you select ports that don't override automatic turn-off.
Password Settings	"Admin Password Required" shows whether changes to PC ID settings are protected by the administrator password. "User Password Required" shows whether a password is required when the computer starts, or before undocking. Use the SCU to change the password status.
Library	Opens the OmniBook <i>User's Guide</i> and other online sources of information.
About	Shows the BIOS version.

Using the System Configuration Utility

The System Configuration Utility (SCU) provides access to basic configuration settings. It is independent of the operating system.

To run the SCU

1. Close all applications, then shut down Windows and reboot the OmniBook. If necessary, you can press CTRL+ALT+DEL to reboot.
2. During reboot, at the message “<F2> to enter System Configuration Utility,” press F2 to start the SCU.
3. The mouse is not active in the SCU. Press ALT to activate menus, and use arrow keys, spacebar, ENTER, and ESC to navigate and change settings. See the tables below for more information.
4. After you select the options you want, use the Exit menu to close the SCU.

System menu

Date and Time	Sets the date and time.
Boot Devices	<p>Boot Device</p> <p>"FDD First" is the typical PC boot, where drive A is searched first for a system disk, then drive C.</p> <p>"HDD Only" boots the computer from drive C only. Provides protection from boot-sector virus.</p> <p>PC Card Mode</p> <p>"Legacy" configures the PC card slots as standard PCMCIA slots.</p> <p>"Disable" allows a Plug-n-Play operating system to configure the card slots.</p> <p>"CardBUS Mode" configures the card slots as CardBUS slots.</p> <p>Boot Configuration</p> <p>"Full" configures all devices at boot time. Compatible with a non-Plug-n-Play (PnP) system.</p> <p>"Boot devices only" configures all devices at boot time except PnP ISA cards set up as boot devices. Compatible with a PnP operating system, which configures such cards.</p> <p>"Auto-detect" performs a boot-device-only or full configuration, depending on whether the operating system last used was PnP or not.</p> <p>Fast Boot. Skips the RAM test.</p> <p>Force PCI Bridge configuration. Prevents certain versions of Windows NT from interfering with the PCI configuration.</p>
Docking Messages	On or off. Provides prompts during docking and undocking.
Passwords	
Password options	<p>"User Password required" sets whether a user password is required when the computer turns on, or before undocking.</p> <p>"Administrator Password required" sets whether PC ID changes are protected by the administrator password.</p> <p>"Disable hard disk drive lock" sets whether a user password with turn-on security can secure data on the hard disk if the disk is moved to another computer.</p>
Set Admin password	The administrator password provides protection equal to the user password plus PC ID protection. The administrator password can be used whenever the user password is requested, such as when changing the user password.
Set User password	The user password protects user events selected in Password Options, but doesn't give access to protected administrator options, such as PC ID.
PC Identification	Four text strings for name, company, address, phone, etc.
Enable Cache	Enables faster performance by using cache memory.
Status Panel Enable	On or Off. Sets whether the Status Panel can be displayed.
Status Panel Settings	
Status Panel Position	Sets the corner of the display where the Status Panel appears.
Items to Show	Sets when each indicator appears in the Status Panel.

Changing the Configuration Using the System Configuration Utility

Input/Output menu

COM Port	Sets serial port address and interrupt.
LPT Port	Sets printer port address and interrupt.
LPT Type	Sets printer port communication.
Keyboard Setup	<p>"Key Delay" sets how long you hold a key down before the character starts repeating.</p> <p>"Key Repeat Rate" sets how fast characters repeat.</p> <p>"Keyboard Numlock" sets whether Num Lock is active after rebooting.</p>
External devices	<p>"VGA Display device" sets whether the built-in display is on or off when an external display is present. (You can press FN+PrtSc at any time to cycle among the different display combinations.)</p> <p>"Force recognition of external VGA" overrides automatic detection of an external display. (You can press FN+PrtSc at any time to cycle among the different display combinations.)</p> <p>"Enable External FN Key" lets you press CTRL+ALT instead of FN on an external keyboard with no FN key.</p> <p>"Ignore External Pointing Device" activates the built-in mouse when an external mouse is connected.</p>
Audio Port	
Basic Audio	<p>"Disable internal" turns off the internal sound chip, such as when using an external sound card.</p> <p>Sets the volumes for the beeper signal and the sound speaker.</p>
Advanced Audio	Sets system resources used by audio devices.
Video Stretched	On or Off. Expands video so a VGA-sized image fills the entire screen. (You can press FN+TAB at any time to change this.)
Enable IrDA IR	On or Off. Makes the infrared port compatible with the IrDA standard.

Power menu

Power Controls	<p>"CPU Power Management" should be Maximum for greatest power savings.</p> <p>"Auto Turn-off w/Battery" and "HDD Power-down w/Battery" are automatic turn-off times.</p> <p>"Auto Turn-off w/AC" sets whether the computer turns off when the ac adapter is connected.</p> <p>"Enable audio power savings" lets the audio system turn off while it's not busy.</p>
Port Activity	Lets you select ports that don't override automatic turn-off.

Defaults menu

Factory Default Settings	Resets all settings to defaults without exiting.
Restore Settings	Discards changes without exiting.

Exit menu

Save	Saves changes and exits.
Quit	Discards changes and exits.
Version Info	Shows the BIOS version.

———— Troubleshooting

Troubleshooting

If you run into problems getting your OmniBook started, you can use the troubleshooting suggestions in this chapter for getting back on track. If you have questions that this manual doesn't answer, try these other sources.

If the OmniBook will not run:

- Check the troubleshooting suggestions under "Solving Basic Problems."
- Check with your computer system administrator, if you have one.
- Contact your dealer, or contact Hewlett-Packard—see the OmniBook *Support and Service* booklet.
- Find technical information about the OmniBook on the Internet. Visit the World-Wide Web support site at <http://www.hp.com/go/omnibook>

If the OmniBook does run:

- See the online OmniBook *User's Guide*.
- If you're having a problem within one particular application, check the manual for that application, too.
- Check the documentation for your operating system. (For Windows 95, check the printed *Introducing Microsoft Windows 95* manual. For Windows for Workgroups, check the online MS-DOS and Windows manuals.)
- Look at the online Help for Windows and other applications.
- See other books about Windows, MS-DOS®, and other applications. Check your local library or bookstore.
- See the OmniBook *Support and Service* booklet or OmniBook Support in the online OmniBook Library.
- Find technical information about the OmniBook on the Internet. Visit the World-Wide Web support site at <http://www.hp.com/go/omnibook>

Solving Basic Problems

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

If the OmniBook turns off immediately after it turns on

- Battery power is probably extremely low. Plug in the ac adapter—or turn off the OmniBook and insert a fresh battery (see chapter 1).

If the OmniBook stops responding

- Try waiting a few moments, then try turning it off and on.
- Press CTRL+ALT+DEL to reboot.
- If nothing happens, insert a ball-point pen tip or other slender object into the reset-button hole in the right side of the case. Push in momentarily—the system should reset and reboot.

If the OmniBook doesn't turn on

- Connect the ac adapter in case the battery is low.
- Press On/Off to try turning on the unit.
- Try adjusting the display—press the ^ or v buttons above the keyboard several times or hold one of them down. Try holding the FN key at the same time.
- Insert a ball-point pen tip or other slender object into the reset-button hole in the right side of the case. Push in momentarily—the system should reset and reboot.
 - If you get no response, remove the battery, ac adapter, and all external devices, and wait 1 minute—then plug in the ac adapter and try resetting again. If you still get no response, the unit requires service.
 - If you get an error message during startup, see the next symptom.

If the OmniBook doesn't reboot successfully (Windows 95)

If your operating system is Windows 95

- If no text is displayed during reboot, or if the system stops before you see “Starting Windows 95...”, the unit might require service. Try rebooting again. You can try to start the System Configuration Utility (press F2 during reboot), then select Factory Default Settings from the Defaults menu, and then select Save from the Exit menu.
- If you see “Starting Windows 95...” during startup followed by error messages, reboot again—but when you see “Starting Windows 95...”, press F8 to get the startup menu. Choose a startup option that might help you discover or fix the problem.
 - Use the “safe mode” option to start Windows with a basic configuration. Run ScanDisk (in Start, Programs, Accessories, System Tools) to fix problems with drive C. You can also make other changes to repair your startup files.
 - Use the “step-by-step” option to step through each startup command to find where problems occur, so you can repair or restore any files indicated.
- If drive C (the hard disk) isn't working properly, insert the *Support Utility* floppy disk in the floppy drive, then press CTRL+ALT+DEL to reboot from drive A—then choose the Minimum Startup option. (Note that the System Configuration Utility must have System, Boot Devices set to boot FDD First.) At the MS-DOS prompt, type `scandisk c:` to fix certain problems with drive C. You can use other commands on drive A to try to repair drive C. Then remove the floppy disk and try rebooting again. If it still doesn't start, you could try reinstalling all of the original files on drive C—see “Reinstalling Windows” in chapter 2.

If the OmniBook doesn't reboot successfully (Windows for Workgroups)

If your operating system is MS-DOS or Windows for Workgroups

- If no text is displayed, or if the system stops before you see any text about MS-DOS, the unit might require service. Try rebooting again. You can try to start the System Configuration Utility (press F2 during reboot), then select Factory Default Settings from the Defaults menu, and then select Save from the Exit menu.
- If you see error messages during startup, but Windows starts or you get an MS-DOS prompt, exit Windows (if necessary), and type `scandisk` to fix problems with drive C. Then press CTRL+ALT+DEL to reboot—but at the “MS-DOS Startup Menu,” press F8 ENTER and step through each startup command to find where the problem occurs. Repair or restore the necessary files as indicated.
- If you see text about MS-DOS but things stop before Windows starts or before you get an MS-DOS prompt, insert the *Support Utility* disk or other boot disk in the floppy drive, then press CTRL+ALT+DEL to reboot from drive A. (Note that the System Configuration Utility must have System, Boot Devices set to boot FDD First.) If the unit doesn't reboot from a floppy boot disk, the unit probably requires service.

If it reboots, type `dir c:` to see if drive C contains valid files. Then try the following:

- If drive C has valid files, try typing these commands:
`c:\dos\scandisk` (to repair any defects)
`sys a: c:` (to restore core MS-DOS files).
- Try typing each of these commands to see if it fixes the problem:
`fdisk /mbr` (to repair only the boot sector of drive C) and
`c:\dos\scandisk` (to repair any file defects).
- Last resort: The following commands delete all files on drive C, so try to back up your data files. You must reinstall your files after running these commands:
`fdisk` (to verify partitions on drive C)
`format c: /u` (to prepare drive C for storing data)
Then reinstall the operating system, special drivers, and HP software.

If the Windows for Workgroups Setup fails due to a problem with the display driver

- Specify VGA for the display driver.

If the OmniBook doesn't turn on with a fresh battery

- If you replaced the battery after the OmniBook turned off due to a low battery, either plug in the ac adapter—or turn off the OmniBook, then hold F4 and press the On/Off key (F4+ON) to turn it on.

If your password doesn't work

- Check whether Num Lock (Nm Lk) is off. Try changing it.
- If you've forgotten your password, have your OmniBook at hand and call Hewlett-Packard at the phone number in the *Service and Support* booklet.

If the OmniBook beeps repeatedly

- If two beeps occur every 10 seconds or so, battery power is critically low and less than 2 minutes of operation remain. Plug in the ac adapter—or turn off the OmniBook and insert a fresh battery (see chapter 1).

If the screen is difficult to read

- Try adjusting the display—press the ^ and v buttons above the keyboard.
- If the OmniBook is cold, allow it to warm up.
- Set the display resolution to its original setting: 800×600 (SVGA) and 256 colors, or set the lowest available setting. For Windows for Workgroups, use Display in OmniBook Tools. For Windows 95, use the Settings tab under Display in the Control Panel (under HP User Tools or under Settings).

If an external display won't turn on

- If the external display is unrecognized by the OmniBook, the computer will not send it video signals. However, you can force the computer to send these signals anyway. Open the OmniBook External Devices screen (Start, Settings, Control Panel, then OmniBook External Devices). Check the box that reads “Force video signal to external display”.

If the computer seems slow

- Check that Cache is enabled (in the System Configuration Utility, open the System menu and check Enable Cache).
- You might need to install more RAM. The memory-expansion boards are HP part numbers F1168A (16 MB), F1169A (32 MB) and F1119A (64 MB).
- Try pressing the reset button.

If the infrared connection does not work

- Try re-aligning the two devices to align their infrared ports. Make sure the two devices are no more than 0.5 meter apart.
- Check the settings in your communications software and in the OmniBook's IR Monitor. IrDA must be enabled.

If a parallel device does not work

- The bus speed of the device may be too slow for the OmniBook. Try decreasing the OmniBook's bus speed by pressing FN+MINUS (-). You can restore the normal speed by pressing FN+PLUS (=).

If you cannot install Windows NT 3.51

- In the System Configuration Utility, under the System menu, Boot Devices, enable the checkbox Force PCI Bridge Configuration.

Specifications, Regulatory,
and Safety Information

Specifications, Regulatory, and Safety 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.
- Check out the tips about ergonomics and work habits.
- If you have problems, see the problem-solving suggestions in chapter 5 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

Display	Backlit liquid-crystal display (LCD). Color SVGA (800 × 600). Accelerated PCI-bus video controller. Zoomed video enabled.
Keyboard	Enhanced PC functionality with compact layout. Full-sized keyboard with embedded numeric keypad. FN key.
Mouse	PS/2-compatible mouse.
Memory	RAM: 16 MB built in, expandable to 80 MB maximum.
Mass Storage	IDE hard disk drive: Two card slots.
Sound System	SoundBlaster PRO-compatible stereo sound, microphone, speakers. Input jacks: microphone (monaural), line (stereo). Output jack: headphone or speakers (stereo).
Interfaces	Serial: one 9-pin 115,200-baud RS-232 port (with hardware handshaking). Parallel: one 25-pin bi-directional port. Infrared: one 4 Mbps IrDA II bi-directional port (fast IR). IrDA-compatible. VGA output: one 15-pin color-VGA port (up to 1024×768 ×256 pixels). Floppy drive: one custom floppy-drive port. Docking/SCSI-II port: one custom port for a docking system or an OmniBook-to-SCSI adapter cable.
Card Slots	Electrical: 16/32 bit PC Card Standard with CardBus. Mechanical: Two type-II or one type-III PC-Card 2.1 slots.
AC Adapter	Input: 100 to 240 Vac (50 to 60 Hz). Output: 12 Vdc, 3.3 A. Operating temperature: 0 to 40°C (32 to 104°F).
Battery Pack	Voltage: 7.2 Vdc (Lithium-ion battery). Recharge time: up to 2.5 hours. Operating time from 100% charge: up to 3 hours.
Temperature	Operating: 0 to 35 °C (34 to 95 °F). Storage with data retention: 0 to 55°C (32 to 131 °F).
Humidity	Operating and storage: 90% relative humidity at 40 °C (104 °F) maximum.

Software System Resources

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

Interrupt Capabilities (IRQs)

0	System timer
1	Keyboard
2	programmable interrupt controller
3	Free (COM2 or COM4 if modem installed)
4	COM1 (external serial port)
5	ESS sound chip
6	Floppy-disk drive
7	LPT1 (external parallel port)
8	Real-time clock
9	Free
10	IrDA (infrared) and SCSI
11	Free
12	Pointing device
13	Math co-processor
14	Hard disk
15	Docking/PCI slot

The PC Card's IRQ depends on the card.

DMA Channel Capabilities

0	Free
1	Sound
2	Floppy-disk drive
3	Free
4	DMA controller
5	Wave 2
6	Free
7	Free

Memory Map

C000-C7FF	VGA BIOS
C800-CFFF	Free
D000-D1FF	PC Card memory for Windows 3.1
D000-E7FF	Free (except for the above)
E800-EBFF	Plug-n-Play BIOS
EC00-EF7F	PCI BIOS
EF80-EFFF	Enhanced Parallel Port BIOS
F000-FFFF	System BIOS

Input/Output (I/O) Addresses

1F0-1F7	Hard-disk drive
220-22F	ESS sound
2F8-2FF	COM 2 if modem installed
330-331	ESS sound
378-37F	LPT1 (external parallel port)
388-38B	ESS sound
3B0-3BB	Video adapter
3C0-3DF	Video adapter
3E0-3E1	PC Card bridge on PCI
3F0-3F5 (primary)	Floppy drive
3F6	Hard-disk drive
3F7	Floppy drive
3F8-3FF	COM1 (external serial port)
778-77A	LPT1 in ECP mode
3000-301F	IrDA (infrared)
3100-31FF	internal SCSI (SCSI cable attached)
4000-40FF	SCSI (docked without network card)
4100-41FF	SCSI (docked with network card)

I/O addresses 300, 310, 320, 340, and A20 are free for network cards.

Safety Information

Power Cord, Plug, and Voltage Requirements

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 F1044B or F1140A), contact your local Hewlett-Packard dealer or Sales and Service office.

Power Cords			
Country	Rated Voltage and Current	AC Plug Type	HP Part Numbers
Canada	125–127 Vac (10 A)	NEMA 5-15P	8120-1348 (2.3 m)
Mexico			–or–
Philippines			8120-6260 (1.0 m)
Taiwan			
United States			
United States	250 Vac (6 A)	NEMA 6-15P	8120-0698 (2.5 m)
East and West Europe	250 Vac (10 A)	CEE 7-VII	8120-1689 (2 m)
Egypt			–or–
Saudi Arabia			8120-6262 (1.0 m)
Hong Kong	250 Vac (5 A)	BS 1363A	8120-1351 (2.3 m)
Singapore			–or–
United Kingdom			8120-6261 (1.0 m)
Australia	250 Vac (7.5 A)	AS3112	8120-1369 (2 m)
New Zealand			–or–
People's Republic of China			8120-6346 (1.0 m)
Switzerland	250 Vac (6 A)	SEV Type 12	8120-2104 (2 m)
Denmark	250 Vac (6 A)	Danish AFSNIT 107	8120-2956 (2 m)
Japan	125 Vac (12 A)	MITI 41-9682	8120-5342 (2.5 m)
	125 Vac (7 A)	MITI 41-7275	8120-6768 (0.2 m)
India	250 Vac (10 A)	IEC 83-B1	8120-4211 (2.0 m)
South Africa			

Battery Safety

- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch across the battery contacts.
- The battery pack is suitable for use only with an HP OmniBook 800 and, if desired, the HP F1063B battery charger.
- 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 lithium-ion 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 (which is provided with a battery purchased as an accessory).
- 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).

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
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Working in Comfort

Ergonomics is the science that fits products to people. Its goal is to make products easy, enjoyable, safe, and efficient to use. However, with even the best designed equipment, how you use the product is very important.

You can use your OmniBook virtually anywhere, anytime, so following the guidelines below can be a challenge—but your efforts will be worthwhile, and help ensure that your OmniBook is ergonomically effective for you.

- Place your OmniBook directly in front of you, within easy reaching distance for your hands when your arms are hanging straight down at your side (this is about 16 inches, or 40 centimeters, in most cases).
- Whenever possible, adjust your seat height, work surface, or both to position the surface at approximately elbow height.
- Try not to use a lot of force when typing—type as lightly as possible. The OmniBook keyboard requires little force to activate, and excess force during typing may increase the risk of injury to you in the long term.
- Do not rest your wrists on a sharp edge when typing. Whenever possible, find a work surface edge that is rounded or padded, or position yourself so your hands rest on the surface, not its edge.
- When typing, try to find positions where you can sit with your arms (shoulder to elbow) straight down at your sides, and try not to hold your arms out away from your body (angle less than 20 degrees).
- Position the keyboard so your wrists, hands, and fingers are in a “neutral” line while typing. This means they do not tilt up or sideways more than 10 degrees.
- Shift positions and move your body from time to time—keeping your body “locked” in one position for a long period of time is unnatural and stressful.
- Take short (about 2 minutes or so) breaks whenever you feel fatigued, tired, or stiff—or at least once every hour. Use the breaks to gently stretch your hands, fingers, arms, and shoulders.

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 and its floppy-disk drive generate and use radio frequency energy and may interfere with radio and television reception. The OmniBook and its floppy-disk drive comply 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. The “FCC ID” number for this product is listed on the bottom of the unit. In the unlikely event that there is interference to radio or television reception (which can be determined by removing the unit’s battery), 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.

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, D.C. 20402, Stock Number 004-000-00345-4. At the first printing of this manual, the telephone number was (202) 512-1800.

Any OmniBook cables provided with the unit or with its accessories—such as the floppy-drive cable—must be used to connect the devices to the OmniBook. To maintain compliance with the Class B emission limits for residential use, use properly shielded cables with this device.

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）の基準に基づく第二種情報技術装置です。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。

取扱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 Co.
Mobile Computing Division
1000 NE Circle Blvd.
Corvallis, OR 97330
declares that the following product
Product name: HP OmniBook 800CS / 800 CT
Options: All
conforms to the following product specifications
Safety: IEC 950:1991+A1,A2 / EN 60950 (1992)+A1,A2
IEC 825-1:1993 / EN60825-1:1994
EMC: CISPR 22:1993 / EN 55022 (1994): Class B*
EN 50082-1:1992
IEC 1000-4-2:1995 / prEN 55024-2 (1992): 4kV CD, 8kV AD
IEC 1000-4-3:1995 / prEN 55024-3 (1991): 3V/m
IEC 1000-4-4:1995 / prEN 55024-4 (1992): 0.5kV signal lines, 1.0kV power lines
Supplementary Information: The product herewith complies with the requirements of the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC.
*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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