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HP OmniBook XE2

————— Corporate Evaluator's Guide

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Introducing the OmniBook XE2

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## Introducing the OmniBook XE2

Thank you for evaluating the HP OmniBook XE2.

The Hewlett-Packard Mobile Computing Division developed this Corporate Evaluator's Guide to facilitate your appraisal of the OmniBook specific operating systems. Rebuilding the OmniBook after the hard disk has been formatted and loaded with your company's disk image is discussed for each operating system, focusing on OmniBook specific software, device drivers, and multimedia support. You will find information on system resources, technical specifications, solutions to common problems, and a list of support resources.

The OmniBook XE2 has the following features:

- Your choice of operating systems
  - Preinstalled with Windows 98 or Windows 2000, which includes hot docking, Plug-n-Play, infrared, and wireless data.
  - Support for Windows 95 OSR2.5, which includes hot docking, Plug-n-Play, infrared, and wireless data.
  - Support for Windows NT 4.0 with Service Pack 4a, which includes advanced power management, and Plug-n-Play PC Cards with HP's Windows NT Mobile Solution.
- OmniBook *Recovery CD* allows you to quickly rebuild the HP OmniBook image
- Standards-based Manageability
  - HP TopTools 4.5 and OmniBook Hardware Diagnostics 2.3.
  - McAfee VirusScan.

## Taking Inventory

The new HP OmniBook line represents a new category of HP notebook computers featuring the latest mobile technologies available.

This chapter describes

- What's included in the OmniBook shipment.
- Models and Configurations.
- Available OmniBook accessories.

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### Included in the OmniBook box

- HP OmniBook XE2.
- AC adapter (HP F1740A or HP F1454A) and power cord.
- Main battery (HP F1739A or HP F1742A).
- *OmniBook Setup Guide*.
- Quick Start sheet.
- *OmniBook Recovery CD*. Includes Windows recovery, and operating system drivers.
- Microsoft Windows 95 and Windows 98 manual and CD.  
–or–  
Microsoft Windows NT 4.0 manual.  
–or–  
Microsoft Windows 2000 manual.

## Introducing the OmniBook XE2

### Taking Inventory

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#### Operating System Support

The following describes the levels of operating system support on the OmniBook XE2.

Operating System	Support Level
Windows 3.1	No Support
Windows for Workgroups 3.11	No Support
Windows 95B OSR2.5	Drivers available on the web
Windows 98	Preinstalled
OS/2 Warp	No Support
Windows NT 3.51	No Support
Windows NT 4.0	Drivers available on the web
Windows 2000	Preinstalled

#### Preinstalled

The operating system is fully qualified on the OmniBook by Microsoft. The operating system is preinstalled on the OmniBook. Hewlett-Packard tests the operating system with a wide variety of Hewlett-Packard and third party hardware and software. All OmniBook specific device drivers for the operating system are provided on the hard disk drive, Recovery CD and web. To see a list of approved and tested hardware go to [www.hp.com/omnibook](http://www.hp.com/omnibook).

#### No Support

Hewlett-Packard does not test the operating system on the OmniBook. No drivers are provided.

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#### Buying 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, plug-in modules, and other accessories, including the following:

- Port Replicator (HP F1738A).
- Lithium-ion battery (HP F1739A).
- PC Cards.

## Introducing the OmniBook XE2

### **Taking Inventory**

- Smart Card.
- Auto / airline adapter (HP F1455A).
- AC adapter (HP F1454A).
- OmniBook carrying case.

Refer to the Features and Specifications chapter for more detailed accessory information.



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**Operating the OmniBook XE2**

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## Operating the OmniBook XE2

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.

This chapter includes:

- ◆ Configuring the OmniBook with the BIOS Setup Utility.
- ◆ Starting and Stopping the OmniBook.
- ◆ Managing Battery Power.
- ◆ Software System Resources.
- ◆ Protecting the OmniBook.
- ◆ Testing the Operation.

## Configuring the OmniBook with the BIOS Setup Utility

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

Some settings made in the BIOS Setup utility 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.

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### 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 change menus. Press the DOWN and UP arrow keys to move among parameters in a menu. Press F5 or F6 to change 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.

Main Menu		Default
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 mm/dd/yyyy format.	
Diskette A	Sets the floppy drive type.	Floppy disk drive type detected and set automatically.
Primary Master	Sets the hard disk drive type and various parameters.	Hard disk drive detected and set automatically.

## Operating the OmniBook XE2

### Configuring the OmniBook with the BIOS Setup Utility

Secondary Master	Sets the CD-ROM drive type and various parameters.	CD-ROM drive detected and set automatically.
Display Device	Switches between the built-in display (LCD), an external display (CRT) if attached, and both.	LCD/CRT
PS/2 Mouse	Enables or disables an external PS/2 mouse, when one is connected.	Enabled
ZV Port	Sets whether zoomed video function is enabled, to connect from a PC card to a VGA controller.	Enabled
Quiet Boot	When enabled, hides summary of power-on self-test and messages during boot.	Enabled
System Memory	Shows the system memory size.	640KB
Extended Memory	Shows the extended memory size.	Detected automatically.

#### Advanced Menu

#### Default

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.	3F8 IRQ4
IrDA port	Sets how the infrared port is configured by the BIOS (specified or automatic).	Disabled
Mode	When IrDA port is enabled, sets the hardware to support SIR (Standard IR) or FIR (Fast IR) infrared communications. (Driver installation is required.)	SIR
Base I/O address	When IrDA port is enabled, sets the I/O address and interrupt.	2F8 IRQ3
DMA channel	When Fast IR mode is enabled, sets the DMA channel.	DMA 3
Parallel Port	Sets how the parallel port is configured by the BIOS (specified or automatic).	Enabled
Mode	Sets the port to output only, bi-directional, ECP mode, or EPP mode.	Bi-directional
Base I/O address	Sets the I/O address.	378 IRQ7
DMA channel	When ECP mode is enabled, sets the DMA channel.	DMA 1
Local Bus IDE	Enables the primary (hard drive) and	Both

Operating the OmniBook XE2

## Configuring the OmniBook with the BIOS Setup Utility

Adapter	secondary (CD-ROM drive) controllers.	
Floppy disk controller	Enables the floppy disk drive.	Enabled

### Security Menu

### Default

User Password Is	Shows if a user password is set.	Clear
Supervisor Password Is	Shows if an supervisor 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 Supervisor Password	Press ENTER to set, change, or clear supervisor password. This password protects BIOS Setup settings.	
Password on boot	Sets whether a user password is required when the computer boots.	Enabled
Diskette access	Allows access to floppy disk drive to supervisor only or user.	Supervisor

### Power (APM) Menu\*

### Default

PM Control	Disables power management, or enables it either always or when using battery power only.	Battery Powered Only
Power Savings	Sets the combination of power management features for your usage.	Maximum Battery Life
Standby Timeout	Sets the period of inactivity after which the computer goes from On to Standby power mode.	2 minutes
Suspend Timeout	Sets the period of inactivity after which the computer goes from Standby to Suspend power mode.	2 minutes
Hibernate Timeout	Sets whether the computer goes from Suspend to Hibernate power mode after the indicated period of inactivity.	2 hours
Hard Disk Timeout	Sets the period of inactivity after which the hard disk stops spinning.	1 minute
Video Timeout	Sets the period of hard disk inactivity after which the screen is turned off.	Off
Power Button Mode	Sets the action of the blue power button when pressed for less than 4 seconds.	Suspend
Resume on Modem Ring	Sets whether the system resumes from Suspend if a ring signal is received.	Off

## Operating the OmniBook XE2

### Configuring the OmniBook with the BIOS Setup Utility

Resume on Time	Sets whether the system resumes from Suspend at a defined time of day.	Off
Resume Time	Sets the 24-hour time when the system resumes from Suspend if enabled.	
Cooling Control	Sets mode for reduction of CPU temperature to Silence (less cooling) or Performance (more cooling).	Performance

Operating the OmniBook XE2

## Configuring the OmniBook with the BIOS Setup Utility

**Boot Menu**

**Default**

Removable Devices Hard Drive ATAPI CD-ROM Drive	Shows the order of boot devices. Move the entries to change the order. Removable Devices include the floppy disk drive.	1. Removable Devices 2. Hard Drive 3. ATAPI CD-ROM Drive
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**Exit Menu**

Exit Saving Changes	Saves Setup changes to CMOS, exits, and reboots.	
Exit Discarding Changes	Discards Setup changes since last save, exits, and reboots. Does not affect security, date, or time changes.	
Load Setup Defaults	Restores default settings, stays in Setup. Does not affect security, date, or time changes.	
Discard Changes	Discards Setup changes since last save, stays in Setup. Does not affect security, date, or time changes.	
Save Changes	Saves Setup changes to CMOS and stays in Setup. Security settings are saved when changed.	

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### To update the OmniBook BIOS

Hewlett-Packard may update the BIOS to enhance the capabilities of the OmniBook. Updates will be available from HP Electronic Support Services at either <http://www.hp.com/cposupport/eschome.html> or [http://www.hp.com/cposupport/mobile\\_computing/software/xe2\\_100.exe.html](http://www.hp.com/cposupport/mobile_computing/software/xe2_100.exe.html).

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**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 password, date and time.**

1. From the Start menu, shut down the OmniBook.
2. Undock and connect the ac adapter to the OmniBook.
3. Remove any PC Cards.
4. Insert the BIOS Update disk in the floppy disk drive.
5. Press the blue power button.
6. When prompted, choose the correct language.

## Operating the OmniBook XE2

### **Configuring the OmniBook with the BIOS Setup Utility**

7. When prompted, press C. This starts a process that takes approximately 1 minute. *Once it begins, do not interrupt the update process.*
8. When prompted, insert a paperclip into the system off button located on the bottom of the OmniBook.

## Starting and Stopping the OmniBook XE2

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 exit this mode
Press Fn+F3* –or– allow time-out.	<b>Standby Mode</b> 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.
Press blue power button –or– click Start, Suspend** –or– allow time-out from standby.	<b>Suspend Mode</b> 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.
Press Fn+F12 –or– allow time-out from suspend.	<b>Hibernate Mode</b> 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	<b>Off Mode</b> 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.
<p>* Windows NT and Windows 95 only. In Windows 98, Fn+F4 suspends the OmniBook.</p> <p>** Windows 95 only. In Windows 98 or Windows 2000, click Start, Shutdown, Standby to suspend the OmniBook.</p> <p>*** Plug-and-play operating systems, such as Windows 95, Windows 98 and Windows 2000, 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.</p>		

Operating the OmniBook XE2  
**Starting and Stopping the OmniBook XE2**

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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 system off button located on the bottom of the OmniBook.
3. After the computer shuts down, press the blue power button to turn it on.

## Managing Battery Power

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

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.

The OmniBook uses Advanced Power Management (APM) to conserve battery power. You can take steps to optimize your battery operating time. This section describes how to

- ◆ Save battery power.
- ◆ Set time-outs.
- ◆ Get the most from your battery.
- ◆ Create the hibernation partition.

---

### To save battery power

Follow these suggestions to conserve battery power.

- Plug in the ac adapter, especially while using the floppy disk drive, the CD-ROM 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, *or* select Start menu, Suspend.
- 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.
- If you work with an application that uses the serial port or a PC Card, exit the application when you are done using it.

## Operating the OmniBook XE2

### Managing Battery Power

- 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. Help information for the highlighted item appears in the right-hand sidebar in the display.
  3. Select the Power menu.
  4. Select Power Management Settings.
  5. 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. In a discharged condition, the battery voltage decreases faster. 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.
- 

#### To create a Hibernate partition

There must be a hibernation partition large enough to hold the contents of memory on the hard disk before the OmniBook can hibernate. By default the hibernation partition is large enough to hold the maximum amount of memory

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allowed in the OmniBook. If you have repartitioned the hard disk, purchased a new hard disk, or would like to make the partition smaller, follow the instructions below.

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**CAUTION**

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**This procedure erases the hard disk. Be sure to save any data on your hard disk before starting this procedure.**

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

1. Connect the ac adapter to the OmniBook.
2. Insert the bootable *Recovery CD* in the CD-ROM drive.
3. Reboot, press ESC twice and select the ATAPI CD-ROM as the boot device.
4. When prompted, click "2 Continue"
5. Click "2 Advanced". Choose the desired hibernation partition size.
6. Select Do not load operating system.
7. Click "1 Continue".
8. Click OK.

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

## 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) & CardBus – only in Windows 95/98 and OSR2.5
11	Free (or MIDI if enabled)
12	Pointing device(s)
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

## Operating the OmniBook XE2 Software System Resources

Valid uses for memory addresses D0000-DBFFF:

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

### System Input/Output Addresses (100-3FF)

170-177	Secondary HDD controller (internal CD-ROM)
1F0-1F7	Internal hard disk
220-22F	Audio for DOS programs
376	Secondary HDD controller (internal CD-ROM)
378-37F	LPT1 (printer port)
388-38B	Sound
3B0-3BB	VGA adapter
3C0-3DF	VGA adapter
3E0-3E1	PCMCIA controller
3F0-3F5	Floppy controller
3F6	Primary HDD controller
3F7	Floppy controller
3F8-3FF	COM1 (serial port)

### DMA Channels

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

## Protecting the OmniBook

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

- Set or change a password.
  - Delete a password.
  - Attach a security cable.
  - Enable drive lock protection.
- 

### To set or change a password

The OmniBook provides two levels of password protection—user password protection and Supervisor password protection. *You cannot set the user password until you set an supervisor 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 Supervisor 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. Make sure that “Password on Boot” is enabled.
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 to determine the proper removal procedure.

Refer to the Feature and Support Information for more information.

---

### To delete a password

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 Supervisor 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 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.

## Testing the Operation

---

### 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.

You can run the OmniBook hardware diagnostic program from the OmniBook Hibernation partition on the hard disk or from a floppy disk. 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 World Wide Web access, download the OmniBook Hardware 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

You can run the diagnostic test from the diagnostic floppy disk or from the hard disk.

- To run from the hard disk, reboot the OmniBook and, when you see the HP logo, press F10.
- or–
- To run from the diagnostic floppy disk, insert the disk in the floppy drive and reboot the OmniBook.
  1. When you see the initial diagnostics screen, press F2 twice to continue.
  2. If the initial diagnostics screen does not appear when you are using a floppy disk, run scandisk on the floppy. If you discover errors, create a new diagnostic disk, using a different floppy, before running the test again.
  3. When the hardware detection finishes, check the list of detected hardware.
  4. If a device is not detected or fails its test, 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 twice to start the basic hardware test.
  6. Wait until the test has finished.
  7. If you intend to exit without running advanced tests, press F4 twice to save system and test information in the Support Ticket log file, HPSUPPT.TXT. Then remove the diagnostic disk and press F3 twice to exit.
  8. Optional: Run the advanced tests. Press F2 twice to open the advanced test screen.
  9. 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.
  10. When you have finished running tests, press ESC to exit the advanced tests.
  11. Optional: Save system and test information. Press F4 to create the Support Ticket log file, HPSUPPT.TXT.
  12. Exit. Remove the diagnostic disk and press F3 to exit and reboot.
  13. Optional: Check the Support Ticket log. On any computer, open the HPSUPPT.TXT log file on the diagnostic disk using Notepad or other text editor. This file contains a list of all test results and errors.



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Using the Recovery CD

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## Using the Recovery CD

### Testing the Operation

---

## 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 for the operating system(s) that shipped on your OmniBook are located both on the Recovery CD and the hard disk drive under \OMNIBOOK\DRIVERS.

The OmniBook-specific drivers for all supported operating systems are located on the OmniBook website at <http://www.hp.com/omnibook>. This website contains the latest updates of software drivers.

The OmniBook *Recovery CD* contains the following:

Directory	Contains
README.TXT file	Instructions for using the Recovery CD.
RECOVER\ OMNIBOOK\ BOOTDISK	Encoded image of the factory load—Windows 98, 95 or Windows NT 4.0.
DRIVERS	For creating your own copy of the Support Utility disk. Use these files to manually install individual audio, video, infrared, and PC-Card (PCMCIA) drivers for the operating system(s) that shipped with your OmniBook. A readme is located in this directory that contains the driver installation instructions.

## Recovering a Factory Build

If you've deleted or lost files on the OmniBook, which causes the system to work improperly, you may need to recover the original factory build.

This section describes how to

- ◆ Recover the OmniBook factory installation of the operating system that came with your OmniBook.

---

## To recover the factory installation

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

### Requirements

- ◆ OmniBook XE2.
- ◆ OmniBook *Recovery CD*.

---

### Hint

This procedure will format the hard disk drive. If possible, *back up any files you would like to save before recovering.*

---

1. **Important.** Back up all data from your hard disk. The following steps delete all data from the disk.
2. Connect the ac adapter to the OmniBook.
3. Insert the bootable *Recovery CD* in the CD-ROM drive.
4. Reboot, press ESC twice and select the ATAPI CD-ROM as the boot device.
5. When prompted, click “2 Continue”.
6. Click “2 Advanced”, then select the desired hibernation partition size.
7. Click “1 Continue”.
8. Click OK.

The recovery process can take up to 10 minutes. *Do not interrupt the recovery process or unplug the ac adapter until recovery is complete.*

9. Insert a pen or straightened paper clip into the System Off button located on the right side of the OmniBook.
10. After the computer shuts down, press the blue power button to turn it on.



**\_\_\_\_\_** Using Windows 98

---

## Using Windows 98

Windows 98 comes factory-installed on the OmniBook XE2. The following procedure installs a retail version of Windows 98 and configures the appropriate device drivers.

### **Requirements**

- ◆ OmniBook XE2.
- ◆ Windows 98 CD-ROM.
- ◆ Blank, formatted floppy disk.
- ◆ OmniBook drivers for Windows 98.  
Location: OmniBook hard drive and on the *Recovery* CD in  
`\OMNIBOOK\DRIVERS\W98`.

## Installing Retail Windows 98

If you install a *retail* version of Windows 98, you'll also need to manually install video, audio, PC Card, and infrared drivers.

This section describes how to

- ◆ Preparing for software installation.
- ◆ Install a retail version of Windows 98.
- ◆ Install video support for retail Windows 98.
- ◆ Install audio and modem support for retail Windows 98.
- ◆ Install PC Card support for retail Windows 98.
- ◆ Install infrared support for retail Windows 98.
- ◆ Install touch pad support for retail Windows 98.

---

### To prepare for software installation

It is recommended you repartition your hard disk before installing retail Windows 98. Follow the instructions below to repartition your hard disk.

1. Insert the Recovery CD in the CD-ROM drive.
2. Insert a blank floppy disk in the A: drive.
3. Open the MS-DOS Prompt.
4. Go to the \OMNIBOOK\BOOTDISK directory on the Recovery CD.
5. Type MAKESUPP.
6. Enter A as the Floppy drive.
7. Enter Y to continue.
8. Press any key to continue.
9. Enter N when complete.
10. Close the MS-DOS Prompt; remove the Recovery CD from the CD-ROM drive.
11. Shutdown and restart, booting from the floppy disk.
12. Type Format C: /q /u.
13. Enter Y to format the C: drive.
14. Enter your desired Volume Label and press enter.
15. Insert the Recovery CD into the CD-ROM drive.
16. Type SYS C:
17. Insert the Windows 98 Installation CD-ROM.
18. Type the following commands to copy the Windows 98 files to the C: drive.

C :

## Using Windows 98

### Installing Retail Windows 98

```
MD \WINDOWS
MD \WINDOWS\OPTIONS
MD \WINDOWS\OPTIONS\CABS
COPY X:\WIN98\*. * C:\WINDOWS\OPTIONS\CABS
COPY A:\DOS\HIMEM.SYS C:\
COPY CON C:\CONFIG.SYS
DEVICE=C:\HIMEM.SYS /MACHINE:2
Press F6 then Enter
```

19. Remove the Windows 98 CD and the floppy disk.

---

### To install a retail version of Windows 98

1. Restart the OmniBook and Enter:  
C:\WINDOWS\OPTIONS\CABS\SETUP /IS
2. Select “I accept the Agreement” and click Next.
3. Enter the Product Key, then click Next. The Product Key is located on the Certificate of Authenticity that you received with your retail version of Windows 98.
4. When prompted, select Other Directory and click Next.
5. Enter C:\WINDOWS for the path, click Next.
6. Click Yes to continue with the specified directory.
7. Choose Portable on the Setup Options screen, then click Next.
8. Enter the appropriate User Information, then click Next.
9. Select “Install The Most Common Components (recommended)”, then click Next.
10. Select your country or region and click Next.
11. Click Next to create a Windows 98 Startup Disk.
12. Click Cancel to skip creating the startup disk.
13. Click Next to start Copying Windows 98 Files to Your Computer. Restart after the files are copied.
14. When prompted with the PC Card Wizard click Next, Next, then Finish.
15. When prompted, enter your computer and workgroup names and click Close.
16. The Windows 98 Setup Wizard will now configure hardware, Control Panel, programs on the Start menu, Windows help, the MS-DOS program settings, Time Zone, and Microsoft Exchange. Enter any changes when the system displays the Time Zone screen. If you chose Microsoft Exchange during the installation, enter the information or click Cancel to enter it later.
17. Restart your computer.

## To install video support for retail Windows 98

If you've installed a *retail* version of Windows 98, you'll need to install video support. The driver is located on the *Recovery CD* in `\OMNIBOOK\DRIVERS\W98\VIDEO`.

1. From Control Panel, double-click Display, then click Settings.
2. Click Advanced, then Adapter.
3. Click Change.
4. Click Next at the Update Device Driver Wizard.
5. Select "Display a list of all the drivers in a specific location", so you can select the driver you want and click Next.
6. Click "Have Disk".
7. Enter the `\OMNIBOOK\DRIVERS\W98\VIDEO` directory of the video drivers on the *Recovery CD*, then click OK.
8. Click OK to select the Silicon Motion LynxEM video driver.
9. Click Next to accept the driver location.
10. Click Finish.
11. Under Monitor, click Change.
12. Choose the appropriate Laptop Display Panel, then click OK.
  - OmniBook XE2 with 14.1" display – Laptop Display Panel (1024 x 768)
  - OmniBook XE2 with 12.1" display – Laptop Display Panel (800 x 600)
13. Click Close, and then Close again. Click Yes to restart the computer.
14. After reboot, re-enter the Display Properties window and click Settings.
15. Set the appropriate Desktop Area and desired Color Palette.
  - OmniBook XE2 with 14.1" display – 1024 x 768
  - OmniBook XE2 with 12.1" display – 800 x 600
16. Click OK in Display Properties.
17. Click OK to "Apply the new color settings without restarting."
18. Click OK to change the resolution and then click Yes.
19. From the Start Menu, click Run.
20. Enter `\OMNIBOOK\DRIVERS\W98\VIDEO\CONTROL\SETUP` from the *Recovery CD* and click OK.
21. Click Next at the Welcome Screen.
22. Click Next to accept the default Program Folders.
23. Click Finish.
24. From the Start Menu, click Run.

## Using Windows 98

### Installing Retail Windows 98

25. Enter \OMNIBOOK\DRIVERS\W98\VIDEO\ZOOMVID\SETUP from the Recovery CD and click OK.
26. Click Next at the Welcome screen.
27. Select "Yes, I want to restart my computer now", and click Finish.

---

### To install audio and modem support for retail Windows 98

If you've installed a *retail* version of Windows 98, you'll need to install audio and modem support. This driver is located on the OmniBook's hard drive or on the *Recovery CD* in \OMNIBOOK\DRIVERS\W98\AUDIO.

1. From Control Panel, double-click System, then click Device Manager.
2. Remove the PCI Multimedia Audio Device under Other Devices
3. Remove the PCI Communications Device under Other Devices.
4. Shutdown and restart the OmniBook.
5. When the hardware wizard appears, click Next.
6. Select Search for the best driver for your device and click Next.
7. Uncheck Floppy disk drives, check Specify a location, and enter the directory of the audio drivers on the Recovery CD (\OMNIBOOK\DRIVERS\W98\AUDIO), under Specify a location and click Next.
8. Click Next to accept the ESS Maestro-3 Device Manager, and click Next to continue.
9. Click Finish.
10. Click Next.
11. Select Search for the best driver for your device and click Next.
12. Enter the directory of the modem drivers on the Recovery CD (\OMNIBOOK\DRIVERS\W98\AUDIO), under Specify a location and click Next.
13. Click Next to accept the ESS ES56CVM-PI Data Fax Voice Modem.
14. Click Finish. Windows will detect other devices.
15. From the Start Menu, click Run.
16. Enter \OMNIBOOK\DRIVERS\W98\AUDIO\AUDIORAC\SETUP and click OK.
17. Click Next at the Welcome Screen.
18. Click Next to accept the default directory.
19. Click Yes to use the AudioRack player as the default CD player.
20. Select "No, I will restart my computer later" and click OK.
21. From the Start Menu, click Run.

22. Enter  
    \OMNIBOOK\DRIVERS\W98\1ST\_EDN.W98\NETSHOW\MPFULL  
    and click OK.
23. Click Yes to install the Windows Media Player.
24. Click Yes to accept the license agreement.
25. Select the connection rate you normally use and click OK.
26. Click OK to finish the installation.

---

### To install PC Card support for retail Windows 98

If you've installed a *retail* version of Windows 98, you'll need to install PC Card support. This driver is located on the OmniBook's hard drive or on the Recovery CD in \OMNIBOOK\DRIVERS\1ST\_EDN.W98\PCCARD

1. From Control Panel, double-click the System icon.
2. Select the Device Manager tab.
3. Select each "Generic Cardbus Controller" under the "PCMCIA socket" category and click Remove.
4. Close the System Properties window and open a DOS window.
5. Go to the \OMNIBOOK\DRIVERS\W98\1ST\_EDN.W98\PCCARD directory on the Recovery CD and run PCCARDQ.EXE. If D: is the drive letter of your CD-ROM drive, type:  
    D:  
    CD \OMNIBOOK\DRIVERS\W98\1ST\_EDN.W98\PCCARD  
    PCCARDQ.EXE
6. Copy an updated PCMCIA configuration to the Windows system by typing  
    CD W98ONLY  
    COPY PCMCIA.INF C:\WINDOWS\INF /Y  
    COPY PCMCIA.INF C:\WINDOWS\OPTIONS\CABS /Y
7. Shutdown and restart the OmniBook. Win98 will start the Hardware Wizard.
8. Click Next at the "Add New Hardware Wizard".
9. Click Next to "Search for the best driver for your device."
10. If asked to specify a location, enter the location given in Step 5.
11. Click Next. Windows will detect the CardBus Controller.
12. Click Next. Windows will start the PC Card Wizard.
13. Click Next, Next, Finish to complete the wizard.
14. Click Yes to keep the existing PCCard.vxd.
15. Click Finish. Windows will detect the other CardBus controller.
16. Click Next at the "Add New Hardware Wizard".

## Using Windows 98

### Installing Retail Windows 98

17. If asked to specify a location, enter the location given in Step 5.
18. Click Next to "Search for the best driver for your device."
19. Click Next. Windows will detect the CardBus Controller.
20. Click Finish.
21. Click Yes to restart the computer.

---

### To Enable the Infrared Port:

Before you use your infrared port to transfer files or to print to an infrared printer, you must enable the infrared port in the BIOS. Follow these steps to use either the standard infrared driver or the enhanced driver. This driver is located on the OmniBook's hard drive or on the Recovery CD in `\OMNIBOOK\DRIVERS\W98\IRDA`.

1. Reboot your computer.
2. When you see the HP logo, press F2.
3. Select Advanced.
4. Set IrDA port setting to Enabled.
5. Set Mode to FIR.
6. Press F10 to save changes and continue to reboot. Windows will detect the IR port and reboot again.
7. Click Start, Settings, Control Panel, Network.
8. On the Configuration tab, select IrDA v3.0 Fast Infrared Port and click Properties.
9. Select the Advanced tab.
10. Under Property select Infrared Transceiver A, under Value select HP-HSDL-2300, and click OK twice.
11. Reboot the computer again.

## To Update the Infrared Driver

If you wish, you can upgrade your existing infrared port driver to an enhanced driver. A standard infrared driver is installed automatically with Windows 98, but the enhanced driver provides faster performance, facilitating large data transfers.

1. From Control Panel, double-click System, then click Device Manager.
2. Click Infrared devices, select Infrared Communication Device, and click Remove. Click OK and then No.
3. Click Network Adapters, select IrDA v3.0 Fast Infrared Port, and click Properties.
4. Click Driver tab, and click Update Driver.
5. On the Update Device Driver Wizard, click Next.
6. Select "Display a list of all the drivers. . . ." and click Next.
7. Select "Show all devices."
8. Under Manufacturers select National Semiconductor, under Network Adapters select NSC-PC87338 Fast Infrared Port, and click OK.
9. Click Next, wait for installation, click Finish, and reboot the computer.
10. If you have already enabled the infrared port, the enhanced driver is now installed and ready to use.

---

## To install touch pad support

If you've installed a *retail* version of Windows 98, you'll need to install touch pad support. This driver is located on the OmniBook's hard drive or on the Recovery CD in \OMNIBOOK\DRIVERS\W98\TOUCHPAD.

1. From the Start menu click Run.
2. Run \OMNIBOOK\DRIVERS\W98\TOUCHPAD\SETUP.EXE from the *Recovery CD*.
3. Click Next at the Welcome screen.
4. Click Next to accept the default destination directory.
5. Click Next to start copying files.
6. Click Finish to restart the OmniBook.

## Using Windows 98

### Installing Retail Windows 98

---

#### To install Intel SpeedStep Support

If you've installed a retail version of Windows, you'll need to install the Intel SpeedStep technology Applet if you have a dual-speed Pentium III processor. Pentium III processors featuring Intel SpeedStep technology can dynamically switch clock frequency and voltage, depending on whether the computer is running on batteries or is plugged into AC power. When running in Battery Optimized Mode, the processors run at a lower frequency and lower voltage, significantly lowering CPU power consumption while still delivering high performance. When a user plugs into an AC outlet, the notebook can automatically switch to Maximum Performance Mode. You can also select Maximum Performance Mode even while running on batteries. Switch modes and set preferences by clicking the icon at the bottom of the screen.

The Intel SpeedStep files are available on Intel's web site.

1. After downloading the software, double-click the downloaded SETUP.EXE.
2. When prompted, click NEXT.
3. Click FINISH to reboot your computer.

Upon successful installation, a SpeedStep icon appears on the bottom right corner of the taskbar.

---

#### To Install Windows 98 First Edition Patches

If you are not installing Windows 98 Second Edition or later, you will need to install three additional software patches that fix Win98 related issues. Windows 98 Second Edition already includes these patches. All patches are located on the Recovery CD at

`\OMNIBOOK\DRIVERS\W98\1ST_EDN.W98\PATCHES\.`

(The following instructions presume that your CD-ROM is located on D:)

##### To Install the IDE Patch:

This updated IDE driver prevents warnings that may occur on the secondary IDE channel in the Hardware Manager, as well as messages about the drive operating in MS-DOS mode.

1. Open an MS-DOS Window and type the following:

D:

`CD \OMNIBOOK\DRIVERS\W98\1ST_EDN.W98\PATCHES\ESDI_506`

`COPY ESDI_506.PDR c:\WINDOWS\SYSTEM\IOSUBSYS`

---

2. Type Y to replace the existing file.
3. Close the MS-DOS Window.

To Install the DVD Patch:

This patch updates the DVD driver included in the original edition of Windows 98.

1. Open an MS-DOS Window and type the following:

D:

```
CD \OMNIBOOK\DRIVERS\W98\1ST_EDN.W98\PATCHES\DVD
```

```
COPY CDVSD.VXD c:\WINDOWS\SYSTEM\IOSUBSYS
```

2. Type Y to replace the existing file.
3. Close the MS-DOS Window.

To Install the Outlook Express Patch:

Microsoft has made an update available for Microsoft Outlook Express. This patch addresses variations of a problem involving file attachments with extremely long names.

1. From the Start menu click Run.
2. Run  
D:\OMNIBOOK\DRIVERS\W98\1st\_EDN.W98\PATCHES\OUTLOOK\OEUPD.EXE from the Recovery CD.
3. Enter C:\TEMP when prompted for an extraction directory.
4. Open a DOS window, and type the following:  
COPY C:\TEMP\INETCOMM.DLL C:\WINDOWS\SYSTEM /Y  
COPY C:\TEMP\MSIMNUI.DLL C:\PROGRA~1\OUTLOO~1 /Y  
COPY C:\TEMP\WAB32.DLL C:\PROGRA~1\COMMON~1 /y  
DELTREE /Y C:\TEMP
5. Exit the DOS window and reboot.

## Installing Cards

This section describes how to install the following:

- ◆ 3Com 3C589D EtherLink III PC Card.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.

---

### To install a 3Com 3C589D EtherLink III PC Card

#### **Requirements**

- ◆ OmniBook XE2 with Windows 98 installed.
- ◆ 3Com 3C589D EtherLink III PC Card.

1. While Windows 98 is running, insert the PC Card.
2. Click Next at the Add New Hardware Wizard.
3. Click Next to Search for the best driver for your Device (Recommended).
4. Click Next.
5. Click Next to accept the driver.
6. Click Finish.
7. Click Yes to restart the computer.

---

### To install a 3Com 3C575 Fast EtherLink XL CardBus PC Card

#### **Requirements**

- ◆ OmniBook XE2 with Windows 98 installed.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.

1. While Windows 98 is running, insert the PC Card.
2. Click Next at the Add New Hardware Wizard.
3. Click Next to Search for the best driver for your Device (Recommended).
4. Click Next.
5. Click Next to accept the driver.
6. Click Finish.
7. Click Yes to restart the computer.

# Using Windows 95

## Using Windows 95

Windows 95 OEM Service Release 2.5 is fully supported on the OmniBook XE2. The following procedure installs Windows 95 OSR 2.5 and configures the appropriate device drivers

### **Requirements**

- OmniBook XE2.
- Windows 95 CD-ROM.
- OmniBook Drivers for Windows 95 (These drivers are available in a self-extracting archive on the Internet at [www.hp.com/go/omnibook](http://www.hp.com/go/omnibook).)  
Location: After you download the drivers they will expand to to a default location in \OMNIBOOK\DRIVERS.

---

## Installing Windows 95

If you install a version of Windows 95, you'll also need to manually install video, audio, PC Card, and infrared drivers. The drivers are available on the Internet at [www.hp.com/go/omnibook](http://www.hp.com/go/omnibook). After you download the drivers, expand them and burn them on CD.

This section describes how to

- ◆ Prepare for software installation.
- ◆ Install Windows 95.
- ◆ Install video support for Windows 95.
- ◆ Install audio and modem support for Windows 95.
- ◆ Enable PC Card support for Windows 95.
- ◆ Install USB support for Windows 95.
- ◆ Install infrared support for Windows 95.
- ◆ Disable automatic CD-ROM detection.
- ◆ Install touch pad support for Windows 95.

---

### To prepare for software installation

It is recommended you repartition your hard disk before installing Windows 95. Follow the instructions below to repartition your hard disk.

1. Insert the Recovery CD in the CD-ROM drive.
2. Insert a blank floppy disk in the A: drive.
3. Open the MS-DOS Prompt.
4. Go to the \OMNIBOOK\BOOTDISK directory on the Recovery CD.
5. Type MAKESUPP.
6. Enter A as the Floppy drive.
7. Enter Y to continue.
8. Press any key to continue.
9. Enter N when complete.
10. Close the MS-DOS Prompt.
11. Shutdown and restart.
12. Remove the Recovery CD from the CD-ROM drive.
13. Shutdown, and restart booting from the floppy disk.
14. Type Format C: /q /u.
15. Enter Y to format the C: drive.
16. Enter your desired Volume Label and press enter.
17. Type A:.

18. Type SYS C:.
19. Insert the Windows 95 Installation CD-ROM.
20. Type the following commands to copy the Windows 95 files to the C: drive.

```
C :
MD \WINDOWS
MD \WINDOWS\OPTIONS
MD \WINDOWS\OPTIONS\CABS
COPY X:\WIN95\*.* C:\WINDOWS\OPTIONS\CABS
COPY A:\DOS\HIMEM.SYS C:\
COPY CON C:\CONFIG.SYS
DEVICE=C:\HIMEM.SYS /MACHINE:2
Press F6 then Enter
```

21. Remove the Windows 95 CD and the floppy disk.

---

## To install Windows 95

1. Restart the OmniBook and Enter:  
C:\WINDOWS\OPTIONS\CABS\SETUP /IS
2. Click Continue at the Welcome screen.
3. Click Yes to accept the license.
4. Click Next to allow Windows 95 Setup to collect information about your computer.
5. When prompted, select Other Directory and click Next.
6. Enter C:\WINDOWS for the path, click Next.
7. Click Yes to continue with the specified directory.
8. Choose Portable on the Setup Options screen, then click Next.
9. Enter the Product Identification Number, then click Next. The Product Identification Number is located on the Certificate of Authenticity that you received with your version of Windows 95.
10. Enter the appropriate User Information, then click Next.
11. *Do not* detect any CD-ROM drive, Network, Sound, MIDI, or Video Capture Card devices, then click Next.
12. Select Install The Most Common Components (recommended), then click Next.
13. Click No, I do not want a startup disk, then click Next.
14. Click Next to start Copying Windows 95 Files to Your Computer.
15. When prompted, click Finish to restart Windows 95.

16. The Windows 95 Setup Wizard will now configure hardware, Control Panel, programs on the Start menu, Windows help, the MS-DOS program settings, Time Zone, and Microsoft Exchange. Enter any changes when the system displays the Time Zone screen. If you chose Microsoft Exchange during the installation, enter the information or click Cancel to enter it later.
17. When prompted to set up a printer, install your printer or click Cancel.
18. Click OK to restart the OmniBook.
19. When prompted, click Next to continue Windows 95 Setup.
20. When prompted restart Windows 95.

---

## To install video support for Windows 95

If you've installed Windows 95, you'll need to install video support. The driver expands from the web package to its default location in `\OMNIBOOK\DRIVERS\VIDEO`.

1. From Control Panel, double-click Display, then click Settings.
2. Click Advanced Properties.
3. Click Change.
4. Click Have Disk.
5. Enter the `\OMNIBOOK\DRIVERS\VIDEO` directory of the video drivers, then click OK.
6. Click OK to select the Silicon Motion LynxEM video driver.
7. Under Monitor, click Change.
8. Choose the appropriate Laptop Display Panel then click OK.
  - OmniBook XE2 with 14.1" display – Laptop Display Panel (1024 x 768)
  - OmniBook XE2 with 12.1" display – Laptop Display Panel (800 x 600)
9. Click Close, and then Close again. Click Yes to restart the computer.
10. After reboot, re-enter the Display Properties window and click Settings.
11. Set the appropriate Desktop Area, Screen Area and desired Color Palette.
12. Click OK in Display Properties.
13. Click Yes.
14. From the Start Menu, click Run.
15. Enter `\OMNIBOOK\DRIVERS\VIDEO\CONTROL\SETUP` and click OK.
16. Click Next at the Welcome Screen.
17. Click Next to accept the default Program Folders.
18. Click Finish.
19. From the Start Menu, click Run.

20. Enter \OMNIBOOK\DRIVERS\VIDEO\ZOOMVID\SETUP and click OK.
21. Click Next at the Welcome screen.
22. Click Next.
23. Click Next to accept the default Program Folders.
24. Click Finish and restart the computer.

---

### To install audio and modem support for Windows 95

If you've installed Windows 95, you'll need to install audio and modem support. This driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\AUDIO.

1. From Control Panel, double-click System, then click Device Manager.
2. Remove the PCI Multimedia Audio Device under Other Devices.
3. Remove the PCI Communications Device under Other Devices.
4. Shutdown and restart the OmniBook.
5. Click Next.
6. Click Other Locations.
7. Enter the directory of the audio drivers (\OMNIBOOK\DRIVERS\AUDIO), under location and click OK.
8. Click Finish.
9. If prompted for the Audio Driver disk, click OK, then enter the directory of the audio drivers and click OK.
10. Click Next.
11. Click Other Locations.
12. Enter the directory of the audio drivers (\OMNIBOOK\DRIVERS\AUDIO), under location and click OK.
13. Click Finish.
14. From the Start Menu, click Run.
15. Enter \OMNIBOOK\DRIVERS\AUDIO\AUDIORAC\SETUP and click OK.
16. Click Next at the Welcome Screen.
17. Click Next to accept the default directory.
18. Click Yes to use the AudioRack player as the default CD player.
19. Click Yes to restart the computer.

---

## To Install PC Card support for Windows 95

If you've installed Windows 95, you'll need to install PC Card support. This driver expands from the web package to its default location in `\OMNIBOOK\DRIVERS\PCCARD`.

1. Copy all files from the `\OMNIBOOK\DRIVERS\WIN95\PCCARD\950ONLY` directory to `C:\WINDOWS\OPTIONS\CABS`.
2. Copy the `PCMCIA.INF` file from the `\OMNIBOOK\DRIVERS\WIN95\PCCARD\950ONLY` to `C:\WINDOWS\INF`.
3. Click Yes to overwrite any files.
4. From Control Panel, open System, then Device Manager.
5. Remove the PCI CardBus Bridge Devices under Other Devices.
6. Close System Properties.
7. Shutdown and Restart Windows 95.
8. If prompted, enter the directory of the Windows 95 Installation files (`C:\WINDOWS\OPTIONS\CABS`) and click OK.
9. From Control Panel, double-click PC Card (PCMCIA).
10. The PC Card (PCMCIA) Wizard starts, click Next.
11. Click Next.
12. Click Finish.
13. Click Yes to shut down and turn on the Omnibook.

---

## To install infrared support for Windows 95

If you've installed Windows 95 and you wish to use infrared, you'll need to install infrared support. These drivers expand from the web package to its default location in `\OMNIBOOK\DRIVERS\IRDA`.

1. Reboot the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Go to the Advanced menu.
4. Set the IrDa (Infrared Port) to Enabled.
5. Set the Mode to FIR.
6. Set the Base I/O address to either 2F8 IRQ3 or 3F8 IRQ4.
7. If necessary, set the DMA Channel to DMA 3.
8. If necessary, set the Parallel Port Mode to EPP.
9. Save and exit the BIOS Setup utility.
10. From the Start Menu, click Run.

11. Enter \OMNIBOOK\DRIVERS\IRDA\SETUP and click OK.
12. Click Next.
13. Click Next to accept the default IR device.
14. Select the Generic IR Serial Port (COM2) and click Next.
15. Click Next to accept the default ports (COM4 and LPT3).
16. Click Finish.
17. Click Yes to restart the computer.

---

**Note**

---

This may cause a conflict between the Infrared port and the built-in modem. To resolve the conflict do the following:

1. From the Control Panel, open System then Device Manager.
2. If the ESS ES56CVH-PI Data Fax Voice Modem has an exclamation point, double-click it.
3. Click Resources.
4. Click Set Configuration Manually.
5. Click OK.

---

## To install USB Support for Windows 95

If you've installed Windows 95 and you wish to use USB, you'll need to install USB support. These drivers expand from the web package to its default location in \OMNIBOOK\DRIVERS\W95\USB.

1. Copy the \OMNIBOOK\DRIVERS\W95\USB directory and its contents from to C:\WINDOWS\TEMP.
2. Open the MS-DOS Prompt.
3. Type: CD TEMP\USB and press Enter.
4. Type: ATTRIB -R \*.\* /S and press Enter.
5. Type: OEMUSB /Q:1 /T:C:\WINDOWS\TEMP\USB\USB1 /N:E and press Enter.
6. Type: USBUPD2 /Q:1 /T:C:\WINDOWS\TEMP\USB\USB2 /N:E and press Enter.
7. From Control Panel, double-click System, then click Device Manager.
8. Remove the PCI Universal Serial Bus Device under Other Devices.
9. Close System Properties.
10. Shutdown and restart the OmniBook.

---

## To install Intel SpeedStep Support

If you've installed a retail version of Windows, you'll need to install the Intel SpeedStep technology Applet if you have a dual-speed Pentium III processor. Pentium III processors featuring Intel SpeedStep technology can dynamically switch clock frequency and voltage, depending on whether the computer is running on batteries or is plugged into AC power. When running in Battery Optimized Mode, the processors run at a lower frequency and lower voltage, significantly lowering CPU power consumption while still delivering high performance. When a user plugs into an AC outlet, the notebook can automatically switch to Maximum Performance Mode. You can also select Maximum Performance Mode even while running on batteries. Switch modes and set preferences by clicking the icon at the bottom of the screen.

The Intel SpeedStep files are available on Intel's web site.

1. After downloading the software, double-click the downloaded SETUP.EXE.
2. When prompted, click NEXT.
3. Click FINISH to reboot your computer.

Upon successful installation, a SpeedStep icon appears on the bottom right corner of the taskbar.

---

## To disable automatic CD-ROM detection

Windows 95 will automatically detect and respond when you insert a CD. However, this prevents the OmniBook from automatically turning off after a period of inactivity if the CD-ROM drive is present. To disable this feature:

1. From Control Panel, double-click System, then click Device Manager.
2. Double-click CD-ROM drive.
3. Select the CD-ROM driver displayed, then click Properties.
4. Click Settings, then uncheck Auto Insert Notification.
5. Click OK to close the CD-ROM Properties window.
6. Click OK to close the System Properties window.
7. Click Yes to restart Windows 95.

---

## To install touch pad support

If you've installed Windows 95, you'll need to install touch pad support. This driver expands from the web package to its default location in `\OMNIBOOK\DRIVERS\TOUCHPAD`.

Using Windows 95  
**Installing Windows 95**

1. From the Start menu, click Run.
2. Enter \OMNIBOOK\DRIVERS\TOUCHPAD\Setup.exe and click OK.
3. Click Next at the Welcome screen.
4. Click Next to accept the default destination directory.
5. Click Next to start copying files.
6. Click Finish to restart the OmniBook.

---

## Installing Cards

This section describes how to install the following:

- ◆ 3Com 3C589D EtherLink III PC Card.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.

---

### To install a 3Com 3C589D EtherLink III PC Card

#### Requirements

- ◆ OmniBook XE2 with Windows 95 installed.
- ◆ 3Com 3C589D EtherLink III PC Card.
- ◆ 3Com 3C589D EtherLink III Driver Disk.

1. Insert the floppy drive and restart the OmniBook.
2. While Windows 95 is running, insert the PC Card.  
The New Hardware Found window is displayed.
3. Insert the 3Com driver disk, then click Next.
4. Click Finish.  
A dialog box displays Windows 95 Can't Find The Necessary Driver.
5. Even though the disk may still be in drive A, enter A:\ when the path dialog box appears, then click OK.
6. If prompted, enter the path C:\WINDOWS\OPTIONS\CABS, then click OK.
7. Shut down and restart Windows 95.

## To install a 3Com 3C575 Fast EtherLink XL CardBus PC Card

### Requirements

- ◆ OmniBook XE2 with Windows 95 installed.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card Driver Disk.

1. Insert the floppy drive and restart the OmniBook.
2. While Windows 95 is running, insert the PC Card.  
The New Hardware Found window is displayed.
3. Insert the 3Com driver disk, then click Next.
4. Click Finish to install the driver.
5. Even though the 3Com driver disk is still in the A: drive, Windows will prompt you to insert the driver disk. Click OK.
6. Type A:\ when the path dialog box appears, then click OK.
7. If asked for the path to the Windows 95 cab files, enter the path C:\WINDOWS\OPTIONS\CABS. Press Enter.
8. From Control Panel, double-click Network, then click Identification.
9. Enter your computer name, workgroup and description.
10. If necessary, click the Configuration tab and add new protocols.
11. Click OK to close the Network Properties window.
12. Click Yes to restart the OmniBook.  
Your 3Com 3C575 Fast EtherLink XL CardBus PC Card is now ready for use.

**————** Using Windows 2000

---

## Using Windows 2000

Windows 2000 comes factory-installed on the OmniBook XE2. The following procedure installs Windows 2000 and configures the appropriate device drivers.

### Requirements

- OmniBook XE2.
- Windows 2000 CD-ROM.
- OmniBook Drivers for Windows 2000 (These drivers are available on the recovery CD.)  
Location: OmniBook hard drive and on the *Recovery* CD in  
\OMNIBOOK\DRIVERS\WIN2K..

## Installing Windows 2000

The following procedure installs a retail version of Windows 2000 and configures the appropriate device drivers.

This section describes how to:

- Prepare for software installation.
- Install retail Windows 2000.
- Install video support.
- Install audio support.
- Install pointing device support.
- Install the Hewlett-Packard Configuration Interface (HPCI).
- Install Intel® SpeedStep technology applet.
- Configure power management.

---

## To prepare for software installation

It is recommended you reformat your hard disk before installing Windows 2000. Follow the instructions below to reformat your hard disk.

---

**Note**

Windows 2000 natively supports Hibernation. The HP Hibernation partition that is created using the Windows 2000 Recovery CD is only 15MB and contains the HP DiagTools 2.3. This software allows you to run diagnostics by simply pressing F10 during the boot process. This partition is not necessary for Windows 2000.

1. Connect the ac adapter to the Notebook.
2. Insert the bootable Recovery CD into the CD-ROM/DVD drive.
3. Reboot, press ESC twice when you see the HP Notebook logo.
4. Select the “CD-ROM/DVD Drive” as the boot device.
5. Click 2 Continue.
6. Click 2 Advanced.
7. Check “Do not load operating system”.
8. Select “Diagnostic partition only”.
9. Click 1 Continue.
10. Click Ok.

---

## To install Windows 2000

1. Insert the Windows 2000 CD in the CD-ROM drive.

2. Reboot, press ESC twice when you see the HP Notebook logo.
3. Select the CD-ROM/DVD as the boot device.
4. Press enter to continue.
5. Read the Windows 2000 Licensing Agreement. Press Page Down until you reach the end of the document. Press F8 to agree.
6. Select the C: drive and press Enter to install Windows 2000.
7. Select the type of file system to install, then press Enter.
8. Click Next at the Welcome screen.
9. Click Next to accept the Regional settings or click Customize.
10. Enter your name and organization, then click Next.
11. Enter a computer name, and an Administration password twice, then click Next. This password is used to administer User IDs and Windows security. Click Next. This name is used by other computers on the network to access your computer.
12. Enter the correct Time Zone and Date and Time, then click Next.
13. Click Finish.

---

## To install video support

If you have installed retail Windows you need to install the video driver. The video driver is contained in the \OMNIBOOK\DRIVERS\W2K\VIDEO subdirectory.

1. Open the Device Manager and double-click the Video Controller.
2. Click Reinstall Driver.
3. Click Next and Check Specify a Location, make sure all other options are unchecked.
4. Click Next and browse the driver's location.
5. Double-click SMISSETUP.INF.
6. Click OK and then Next.
7. Click Finish.
8. Close the Device Manager.
9. Set your display panel settings from the Display control panel.

Upon successful installation, an ATI icon appears on the bottom right corner of the taskbar.

---

## To install audio support

If you have installed retail Windows you need to install the audio drivers. The audio drivers are contained in the \OMNIBOOK\DRIVERS\W2K\AUDIO subdirectory.

1. Run SETUP.EXE from the \OMNIBOOK\DRIVERS\W2K\AUDIO directory.
2. Follow the instructions on the screen to install the drivers.

The drivers will be installed after the system reboots.

---

## To install pointing device support

If you've installed a retail version of Windows 2000, you can install pointing device support.

The integrated pointing device is fully supported by the Synaptics Touchpad driver. With the standard PS/2 mouse driver the integrated pointing device will function, but will be without most special features.

The touchpad files are located on the Recovery CD under \OMNIBOOK\DRIVERS\W2K\Touchpad.

1. Double-click SETUP.EXE in the Touchpad directory.
2. Follow the instructions on the screen.
3. Click Yes to overwrite existing readme files.
4. Restart your computer.

For more detailed information about the touchpad drivers, see the readme.txt file in the touchpad directory.

---

## To install the Hewlett-Packard Configuration Interface (HPCI)

If you've installed a retail version of Windows 2000, you'll need to install the Hewlett-Packard Configuration Interface (HPCI) driver. This driver is located on the Recovery CD in \OMNIBOOK\DRIVERS\W2K\HPCI.

The HP Configuration Interface device implements the following features:

- Auto standby on undock based on the bios settings.
  - Fn+F12 hibernate hot key.
  - Volume implemented through the operating system which will actively be reflected in the user interface.
-

- CD control buttons (Play, Stop, Pause, etc.) on the front of the computer.
- 1. Run SETUP.EXE in the HPCI directory on the Recovery CD.
- 2. Choose Install the HP Configuration Interface Software and click OK.
- 3. Click OK to confirm the software has been successfully installed.
- 4. Restart the computer.

---

**Note**

---

Reset your video settings if needed.

---

## To install the Intel® SpeedStep™ Technology applet

If you've installed a retail version of Windows, you'll need to install the Intel® SpeedStep™ technology Applet if you have a dual-speed Pentium III processor.

The Intel SpeedStep files are located on the Recovery CD under \OMNIBOOK\DRIVERS\W2K\SPEEDSTP.

1. Double-click SETUP.EXE in the SpeedStep directory.
2. When prompted, click NEXT.
3. Click FINISH to reboot your computer.

---

## To configure power management

You may want to change the default power management settings in Windows 2000. The BIOS Power Management settings are ignored if ACPI is activated.

1. From Control Panel, double-click Power Options.
2. Click the Hibernate tab.
3. Check Enable hibernate support.
4. Click Apply.
5. Click the Power Schemes tab.
6. Change the Plugged in options for Standby and Hibernate to Never.
7. Click the Advanced tab.
8. Check Always show icon on the taskbar.
9. Click Apply.
10. Change the Power buttons options to your desired settings.
11. Click the Alarms tab.
12. Set the Low battery alarm action by clicking the Alarm Action button.
13. Check "When the alarm goes off, the computer will:"
14. Select "Hibernate" in the drop-down list.

15. Click OK and close the Power Control panel.



7

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Using Windows NT 4.0

## Using Windows NT 4.0

Windows NT 4.0 with Service Pack 5.0 is fully supported on the OmniBook XE2. The following procedure installs a retail version of Windows NT 4.0 and configures the appropriate device drivers.

Windows NT 4.0 is not Advanced Power Management (APM) aware or Plug and Play (PnP) compatible. If you are not using the Windows NT 4.0 OmniBook Mobile Enhancements, the following will occur:

- PC Cards (PCMCIA) cannot be hot swapped into any laptop with Windows NT. Windows NT 4.0 does not support dynamic allocation of resources. PC Cards must be inserted into the unit before booting.
- PC Card sockets are not enabled after resuming. PC Cards are inoperable after a true suspend then resume cycle. Rebooting restarts the sockets.
- The operating system's clock is stopped when suspended and does not re-synchronize with the hardware clock when resuming. When users resume NT's clock starts up exactly where it was when they suspended. Rebooting resets the clock.

### **Requirements**

- OmniBook XE2
- OmniBook Drivers for Windows NT 4.0 (These drivers are available in a self-extracting archive on the Internet at [www.hp.com/go/omnibook](http://www.hp.com/go/omnibook). They will expand to to a default location in \OMNIBOOK\DRIVERS.)
- Retail *Windows NT Workstation* CD.

## Installing Retail Windows NT 4.0

If you install a *retail* version of Windows NT 4.0 you'll also need to manually install video, audio, Advanced Power Management (APM), and Card Executive drivers. These drivers must be downloaded from the internet at [www.hp.com/go/omnibook](http://www.hp.com/go/omnibook).

This section describes how to

- Prepare for software installation.
- Install a retail version of Windows NT 4.0.
- Install Service Pack 4a for Windows NT 4.0.
- Install video support for retail Windows NT 4.0.
- Install audio and modem support for retail Windows NT 4.0.
- Install touch pad support for retail Windows NT 4.0.
- Disable automatic CD-ROM detection.
- Install the Euro Currency Symbol patch for retail Windows NT 4.0.
- Install APM for Windows NT 4.0.
- Install Card Executive for Windows NT 4.0.

If you are installing Windows NT networking, install it *after* fully installing Windows NT. Follow the instructions in the application note for the network card you are using. The application notes are available on the OmniBook website: <http://www.hp.com/omnibook>.

---

### To prepare for software installation

It is recommended you repartition your hard disk before installing Windows NT 4.0. If you are installing retail Windows NT 4.0 over the HP OmniBook Windows 95/98 image, you must repartition the hard disk. The HP OmniBook Windows 95/98 image uses a FAT32 partition. Windows NT 4.0 does not support FAT32. Follow the instructions below to repartition your hard disk.

1. Connect the ac adapter to the OmniBook.
2. Insert the CD-ROM drive in the OmniBook.
3. Insert the bootable Recovery CD in the CD-ROM drive.
4. Reboot, press ESC twice when you see the HP OmniBook logo.
5. Select the CD-ROM/DVD as the boot device.
6. When prompted, click "2 Continue."
7. Click "2 Advanced.". Choose the desired hibernation partition size.
8. Select "Do not load operating system."
9. Click "1 Continue."
10. Click OK.

## Using Windows NT 4.0

### Installing Retail Windows NT 4.0

---

#### To install a retail version of Windows NT 4.0

1. Insert the Windows NT Workstation CD in the CD-ROM drive.
2. Reboot, press ESC twice when you see the HP OmniBook logo.
3. Select the CD-ROM/DVD as the boot device.
4. At the Welcome Screen, press Enter to begin.
5. Press Enter to accept the IDE CD-ROM mass storage device.
6. If prompted that the drive contains more than 1024 cylinders, press "Enter".
7. Read the Windows NT Licensing Agreement. Press "Page Down" until you reach the end of the document. Press F8 to agree.
8. Press "Enter" to accept the default hardware and software components.
9. Select the first unpartitioned space, then press C.

---

**Note**

You can create partitions on the hard disk as you wish. For a detailed discussion of FAT, HPFS and NTFS file systems, please refer to the "MS Windows NT Resource Guide" within the "MS Windows NT Resource Kit," specifically Chapter 5 "Windows NT File Systems and Advanced Disk Management".

- 
10. Enter the size of the partition desired and press Enter.  
If you are going to format as FAT enter 2040 or less.  
If you are going to format as NTFS enter 4090 or less.
  11. Select the C: partition and press "Enter" to install Windows NT.
  12. Select the type of file system to install, then press Enter.
  13. Press Enter to accept the default Windows NT directory or type in another directory.
  14. Press Enter to allow Windows NT setup to examine your hard disk drive for corruption.
  15. When prompted, press Enter to reboot. (Do not remove the CD-ROM.)
  16. Click "Next" to allow Setup to Gather information about your computer.
  17. Choose "Typical" from the Setup Options, then click Next. (If hard disk space is limited, choosing Portable will install only the necessary components).
  18. Enter your name and organization, then click Next.
  19. Enter the 10-digit CD-key, then click Next.  
The CD-key is located on the back of the CD jacket.
  20. Enter a computer name, then click Next. This name is used by other computers on the network to access your computer.
  21. Enter an Administration password twice, then click Next. This password is used to administer User IDs and Windows NT security.

22. Choose No, do not create an emergency repair disk, then click Next.

---

**Important**

---

It is more useful to create a repair disk after installation is complete and after you have installed your drivers and other applications.

23. Choose Install the most common components, then click Next.

24. Click Next to Install Windows NT Networking.

25. Choose Do not connect the computer to a network at this time, then click Next.

---

**Important**

---

We recommend that you install Windows NT networking *after* Windows NT is fully installed. Follow the instructions in the application note for the network card you are using. The application notes are available from our website. A few sample application notes are also included at the end of this chapter.

26. Click Finish to finish setting up Windows NT.

27. Enter the correct Time Zone and Date and Time, then click Close.

28. Click OK twice to accept the VGA-Compatible Display Adapter (The video driver will be installed in the next section.)

29. When prompted, click Restart Computer.

---

## To install Service Pack 5.0 for retail Windows NT 4.0

If you've installed a *retail* version of Windows NT 4.0, you'll need to install Service Pack 5.0. This is located on the Microsoft website at <http://www.microsoft.com/ntserver/nts/downloads/recommended/sp5/allsp5.asp>.

1. Insert a CD that contains the service pack in the CD-ROM drive.
2. From the Start menu, click Run.
3. Browse to SP5I386.EXE on the CD.
4. Select Accept the Software License Agreement.
5. Select No, I do not want to create an Uninstall directory then click Install.
6. When prompted, click OK to reboot.

## Using Windows NT 4.0

### Installing Retail Windows NT 4.0

---

#### To install video support for retail Windows NT 4.0

If you've installed a *retail* version of Windows NT 4.0, you'll need to install video support. The driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\VIDEO.

1. From Control Panel, double-click Display, then click Settings.
2. Click Display Type, then click Change.
3. Click Have Disk in the Change Display window.
4. Enter the directory of the video driver and click OK.
5. Select the Silicon Motion Lynx Family video driver, then click OK.
6. Click Yes to proceed.
7. Click OK to accept that the driver was successfully installed.
8. Click Close in the Display Type window. (The new driver will not take effect until after Windows NT has restarted.)
9. Click Close in the Display Properties window.
10. Click Yes to restart the computer.
11. When Windows NT restarts, it displays a message that a new graphics driver has been installed. When you see this message, click OK.
12. Select the appropriate resolution, click Test, then click OK.
  - 1024 x 768 on the OmniBook XE2 with 14.1" display
  - 800 x 600 on the OmniBook XE2 with 12.1" display
13. If the graphic is correctly displayed, click Yes, otherwise click No and change the setting.
14. Click OK.

---

#### To install audio and modem support for retail Windows NT 4.0

If you've installed a *retail* version of Windows NT 4.0, you'll need to install audio and modem support. The driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\AUDIO.

1. From the Start menu, click Run.
2. Browse to \OMNIBOOK\DRIVERS\AUDIO\SETUP.EXE.
3. Click Next at the Welcome screen.
4. Click Next to install the drivers.
5. Click Finish to restart the computer.

### To install touch pad support

If you've installed a *retail* version of Windows NT 4.0, you'll need to install touch pad support. The driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\TOUCHPAD.

1. From the Start menu, click Run.
2. Browse to the directory of the touchpad driver and run Setup.exe.
3. Click Next at the Welcome screen.
4. Make sure an external Mouse is NOT plugged in and click Next.
5. Uncheck Run the Emergency Repair Disk utility before installing and click Next.
6. Click Next to accept the default directory.
7. Click Next to start copying files.
8. When prompted, restart Windows NT to activate the touch pad driver.

---

### To install IDE support for retail Windows NT 4.0

Windows NT 4.0 installs a generic IDE Controller device driver. To increase performance on the OmniBook XE2, install the Intel PIIX4 PCI Bus Master IDE Controller driver. The driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\PIIX4.

1. Select START/SETTINGS/CONTROL PANEL.
2. Double-click the "SCSI Adapters" applet.
3. Click on the folder tab labeled "Drivers." The currently installed SCSI adapter drivers will be listed in the Drivers menu.
4. Select the default driver ("IDE CD-ROM (ATAPI 1.2) / Dual-Channel PCI IDE") then, click "Remove" to remove the driver.
5. Click "Add..." to add a new driver.
6. From the "Install Disk" dialog box, Click "Have Disk".
7. The "Windows NT Setup" dialog box will appear prompting for the path of the installation files. Specify the location of the driver installation directory when prompted to do so.
8. Click on "Intel PIIX PCI Bus Master IDE Controller" driver and then click "Ok".
9. When prompted, reboot the system as directed in order for the changes to take effect.

## Using Windows NT 4.0

### Installing Retail Windows NT 4.0

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#### To install Intel SpeedStep Support

If you've installed a retail version of Windows, you'll need to install the Intel SpeedStep technology Applet if you have a dual-speed Pentium III processor. Pentium III processors featuring Intel SpeedStep technology can dynamically switch clock frequency and voltage, depending on whether the computer is running on batteries or is plugged into AC power. When running in Battery Optimized Mode, the processors run at a lower frequency and lower voltage, significantly lowering CPU power consumption while still delivering high performance. When a user plugs into an AC outlet, the notebook can automatically switch to Maximum Performance Mode. You can also select Maximum Performance Mode even while running on batteries. Switch modes and set preferences by clicking the icon at the bottom of the screen.

The Intel SpeedStep files are available on Intel's web site.

1. After downloading the software, double-click the downloaded SETUP.EXE.
2. When prompted, click NEXT.
3. Click FINISH to reboot your computer.

Upon successful installation, a SpeedStep icon appears on the bottom right corner of the taskbar.

---

#### To disable automatic CD-ROM detection

Windows NT 4.0 automatically detects an inserted CD. However, this prevents the OmniBook from automatically turning off after a period of inactivity if the CD-ROM drive is present. To disable this feature:

1. From Start Menu, click Run.
  2. Enter REGEDT32 then click OK.
  3. Select the HKEY\_LOCAL\_MACHINE window and go to SYSTEM\CurrentControlSet\Services\Cdrom.
  4. Double click on Autorun.
  5. Enter 0 and click OK.
  6. Close the Registry Editor and restart Windows NT 4.0.
- 

#### To install the Euro Key Patch

The Euro Key Patch allows you to type the Euro currency symbol in Windows NT. The driver expands from the web package to its default location in \OMNIBOOK\DRIVERS\EURO.

1. From Start Menu, click Run.
-

Using Windows NT 4.0  
**Installing Retail Windows NT 4.0**

2. Click the Browse button and browse the directory of the Euro Key Patch.
3. Double-click on the nt4\_euro.exe
4. Click OK.
5. When prompted, click Yes to restart the computer.

## Installing Mobile Enhancements

The OmniBook Mobile enhancements add the following capabilities to Windows NT 4.0:

- Advanced Power Management (APM).
- Plug and Play for PC Cards.
- The following applications:
  - Phoenix CardExecutive for Windows NT 4.0.
  - Phoenix APM for Windows NT 4.0.

You need to install the OmniBook Mobile Enhancements for Windows NT 4.0 for both the retail *and* factory-installation.

You can download the Phoenix APM and CardExecutive documentation from the following website: <http://www.phoenix.com/platform/portables.html>.

### Requirements

- OmniBook XE2 with Windows NT 4.0 installed.
- Windows NT 4.0 OmniBook Mobile Enhancements.  
Location: In the expanded web package default location  
\OMNIBOOK\DRIVERS\APM and ..\PCCARD.

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### To install APM for Windows NT 4.0

The driver expands from the web package to its default location 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. Go to the Phoenix APM directory and run Setup.exe.
2. Click the APM button to start installation.
3. Click OK.
4. When prompted, restart Windows NT. (If you wish to install Phoenix CardExecutive, do not restart at this time.)

## To install Card Executive for retail Windows NT 4.0

To take advantage of Card Executive's plug-n-play for PCMCIA network cards, you must install Card Executive before installing Windows NT networking. The driver expands from the web package to its default location 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 APM.

1. Go to the Phoenix Card Executive directory and run Setup.exe
2. Click the button to begin the installation process.
3. Click I Understand then click OK.
4. Click Restart Now.
5. After reboot, click Next to run the PC Card Diagnostics.
6. Make sure there are no PC Cards installed in the OmniBook and click Next to start the Diagnostics.
7. Click Finish to reboot.

After reboot, the PC Card icon appears on the taskbar.

## Installing Cards

This section describes how to install the following:

- ◆ 3Com 3C589D EtherLink III PC Card.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.

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### To install a 3Com 3C589D EtherLink III PC Card

#### Requirements

- ◆ OmniBook XE2 with Windows NT 4.0 installed.
- ◆ 3Com 3C589D EtherLink III PC Card.
- ◆ Windows NT 4.0 CD-ROM.

#### Resources

- ◆ Interrupt: 11
- ◆ I/O: 0x1000
- ◆ Memory 0xD4000

---

**Note**

These procedures assume Phoenix Card Executive is installed and Windows NT Networking is not.

For more information on installing PC Cards in Windows NT, visit our web site: [www.hp.com/omnibook](http://www.hp.com/omnibook).

1. Insert the CD-ROM drive in the OmniBook and restart Windows NT 4.0.
2. Insert the PC Card.
3. When the PCMCIA Card Not Configured window appears, select Install system provided driver for this card and click OK.
4. Insert the Windows NT Installation CD in the CD-ROM drive, enter the \i386\ directory and click OK.
5. Enter the resource assignments above and click OK.
6. Click OK to the setup message. (The card has not been activated yet.)
7. If you installed the TCP/IP protocol, you will be asked if you wish to use DHCP. Select the appropriate choice for your network.
8. If you chose not to use DHCP, you will be prompted to enter your TCP/IP information.
9. If you chose to use DHCP, there will be a slight pause while it attempts to find the DHCP server, click Yes when prompted.
10. When prompted, restart Windows NT 4.0.

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**Important**

If you receive a network error in the Event log you must re-install Windows NT 4.0 Service Pack 4a.

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**To install a 3Com 3C575 Fast EtherLink XL  
CardBus PC Card**

**Requirements**

- ◆ OmniBook XE2 with Windows NT 4.0 installed.
- ◆ Windows NT CD-ROM.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card.
- ◆ 3Com 3C575 Fast EtherLink XL CardBus PC Card Driver Disk.

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**Note**

These procedures assume that Phoenix Card Executive is installed and Windows NT Networking has not been installed.

For more information on installing PC Cards in Windows NT, visit our web site at [www.hp.com/omnibook](http://www.hp.com/omnibook).

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1. Start Windows NT 4.0.
2. Insert the PC Card.
3. When the PCMCIA Card Not Configured window appears, select Install system provided driver for this card and click OK.
4. Insert the Windows NT Installation CD in the CD-ROM drive, enter the correct directory and click OK.
5. Click OK to accept the Automatic configuration (IO Port and Interrupt).
6. Click OK to the setup message. (The card has not been activated yet.)
7. If you wish to use DHCP, click Yes.
8. If you chose not to use DHCP, you will be prompted to enter your TCP/IP information.
9. If you chose to use DHCP, there will be a slight pause while it attempts to find the DHCP server, click Yes when prompted.
10. When prompted, restart Windows NT 4.0.

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**Important**

If you receive a network error in the Event log you must re-install Windows NT 4.0 Service Pack 4a.

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**————** Features and Support Information

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## Features and Support 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 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.

This chapter includes:

- ◆ OmniBook XE2 Features
- ◆ OmniBook Accessories
- ◆ Getting Assistance and support
- ◆ Removing OmniBook Passwords
- ◆ Using Electronic Serial Numbers

## OmniBook XE2 Features

<b>Physical Attributes</b>	Size: 311mm×249mm×42mm (12.25"×9.80"×1.65") closed. Weight: 3.0 kg (6.6 lb.) with lithium-ion battery and 12.1" TFT screen; 3.1 kg (6.8 lb) with lithium-ion battery and 14.1" TFT screen; 3.2 kg (7.0 lb.) with NiMH battery and HPA 12.1" screen.
<b>Processor and Bus Architecture</b>	600-MHz Intel® Mobile Pentium III® processor featuring Intel SpeedStep™ technology (Dual-speed processor: 600 MHz from AC power, 500-MHz from battery) -or- 500-MHz Intel Mobile Pentium III processor -or- 550- or 500-MHz Intel Mobile Celeron® processor. 100-Mhz front side bus. 32-KB internal L1 cache. 256-KB on-die pipeline-burst synchronous L2 cache (Pentium III). 128-KB on-die pipeline-burst synchronous L2 cache (Celeron). 32-KB internal L1 cache. 32-bit PCI bus.
<b>Graphics</b>	14.1-inch (35.8 cm) diagonal 1024 x 768 XGA TFT display with 65K colors or 12.1-inch (30.7 cm) diagonal 800 x 600 SVGA HPA or TFT display with 16 million colors (16 million colors available on external video). SMI Lynx EM4 graphics controller. AGP graphics. 64-bit Video Graphics Adapter. Dual-display capability. 4-MB of embedded video SGRAM. Support for software MPEG-2 and Zoomed Video. External video resolutions: 800 x 600 / 16M colors / 85Hz; 1024x768 / 65K colors / 85Hz; 1280x1024 / 65K colors / 75Hz.
<b>Power</b>	Built-in smart rechargeable lithium-ion battery with up to 3-hour run time or NiMH battery with up to 2 hour run time (Estimated battery life. Actual battery life will vary on usage.). Low-battery warning. Suspend/resume/save-to-disk feature. Auto turn-on on dock. Low-battery warning. Universal AC adapter: 100- to 240-Vac (50- to 60-Hz) input; 19-Vdc, 3.16A output.
<b>Mass Storage</b>	Built-in 24X-maximum-speed CD-ROM drive or 6X-maximum-speed DVD-ROM drive. Built-in 3.5-inch (8.9 cm) 1.44-MB floppy disk drive. Industry-standard 10- or 5-GB removable Enhanced-IDE hard drive.

## Features and Support Information

### OmniBook XE2 Features

<b>RAM</b>	64- or 32-MB of 100-Mhz SDRAM standard in one slot. One additional free slot accomodates up to an extra 128-MB SDRAM using optional HP RAM expansion modules (for up to 160-MB or 192-MB memory). Maximum system memory 256-MB.
<b>Audio System</b>	External media player buttons to play music CDs while system is turned off. 16-bit Sound Blaster Pro-compatible stereo sound. 3D-enhanced PCI bus audio. Dual built-in speakers with acoustic chamber. Built-in microphone. Headphone-out and microphone-in ports. Dolby Pro-Logic with Surround Sound (DVD configuration only).
<b>Keyboard and Pointing Device</b>	87-/88-key full size keyboard. Spill-resistant keyboard. Embedded numeric keypad. 12 function (Fn) keys. Touch pad on palm rest.
<b>Input/Output</b>	Universal Serial Bus (USB) port. Serial port: 9-pin, 115,200-bps. Parallel port: 25-pin bidirectional ECP and EPP. VGA:15-pin. PS/2 keyboard/mouse. 4-Mbps IrDA-compliant infrared port (4-Mbps under Windows® 98). Built-in 56-Kbps, V.90-compatible, worldwide-capable modem. RJ-11 modem jack.
<b>Expandability</b>	One Type III or two Type II 16-/32-bit PC Card slots (3.3- and 5-V support). CardBus-enabled. Port replicator port.

## Features and Support Information

### OmniBook XE2 Features

<b>Preinstalled Software</b>	<p>Microsoft Windows® 98 Second Edition or Microsoft Windows 2000.  PC99-compatible Plug &amp; Play.  Advanced Power Management (APM 1.2).  McAfee VirusScan.  Microsoft Internet Explorer 5.0.  Microsoft Outlook Express.  e-services (available in the U.S.) to enhance business productivity: fax, internet backup, finances, copy center, web based e-mail, eMusic.com, electronic-support and HP's Yahoo Small Business website.  Internet Service Providers: Prodigy, AT&amp;T (U.S. only) and AOL, CompuServe (U.S. and Canada only) (Windows 98 only) (Internet Service Provider (ISP) registration and monthly fee required).  Quicklink III fax software by Smith Micro (W98 only).  MusicMatch MP3 player.  Adobe® Acrobat® Reader 4.0.  Touchpad tap and scroll functionality by Synaptics.  Mediamatics DVD player software (DVD systems, preinstalled).  System Diagnostics by HP DiagTools 2.2.  QuickStroke Chinese character recognition software by Synaptics (China only and HK Traditional Chinese only).  Desktop Management Interface (DMI) 2.0-compliant under Windows 98.  HP TopTools 4.5 for Windows 98.  Online user's handbook.  OmniBook <i>Recovery</i> CD included.  Centralized worldwide BIOS and driver update service.</p>
<b>Security Features</b>	<p>User and administrator password.  Kensington Microsaver lock slot.  HP Mobile ProtectTools 2000 Smart Card Kit V2.1 option.</p>
<b>Environmental Limits</b>	<p>Operating temperature: 41° to 95°F (5° to 35°C).  Operating humidity: 20 to 80 percent RH (5 to 35 °C).  Operating altitude: 0 to 10,000feet (0 to 3000m).  Storage temperature: -4° to 140°F (-20° to 60°C).</p>
<b>Major ICs</b>	<p>CPU: Intel Mobile Pentium III or Celeron.  Video: Silicon Motion LynxEM  Audio: ESS Maestro3.COMM  Keyboard controller: National PC87570.  Super I/O: National 97338  CardBus: TI PCI1225A.</p>

## OmniBook Accessories

F1738A	HP OmniBook XE Port Replicator.
F1985A	3Com USB-NIC Ethernet Adapter (no Windows 2000 support).
F1456B	32-MB SDRAM module .
F1457B	64-MB SDRAM module.
F1622B	128-MB SDRAM module.
F1454A	Additional Universal AC Adapter.
F1781A	Ultra Slimline AC Adapter.
F1455A	Auto/airline Power Adapter.
F1739A	Standard Rechargeable Lithium-Ion Battery with up to 3-hour run time.
F1469A	PS/2 Y Adapter.
F1613A	10-Mbps Ethernet PC Card.
F1626B	3Com 10/100 LAN CardBus PC Card.
F1626A	56-Kbps – 10/100 Ethernet Combo card.
F1625A	Xircom CreditCard Modem 56-GlobalACCESS.
F1623A	Xircom CreditCard Ethernet 10/100+Modem 56-GlobalACCESS.
F1627A	Xircom CreditCard Modem 56 (for use inside U.S. only).
F1643A	Xircom RealPort CardBus Ethernet 10/100+Modem 56.
F1782A	3Com 10/100 Fast Ethernet+56 Global Modem CardBus PC Card.
F1611C	128-bit HP Mobile ProtectTools 2000 Smart Card Kit V2.1 (for use in U.S. and Canada) (Smart Card BIOS Lock not supported).
F1613B	HP Mobile ProtectTools 2000 Smart Card 5-pack.
F1645A	Kensington Lock.
F1747A	Defcon Alarm.
F1608A	HP OmniBook Executive Carrying Case.
F1607A	HP OmniBook Leather Carrying Case.
F1606A	HP OmniBook Nylon Carrying Case.
F1771A	HP Omnibook Universal Carrying case.

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## Getting Assistance and Support

This section includes information about:

- ◆ Looking up technical information.
- ◆ Getting HP OmniBook assistance from electronic services and from Customer Support centers.
- ◆ Getting repair assistance.
- ◆ Hewlett-Packard limited warranty.

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## To look up technical information

This Corporate Evaluator's Guide provides technical specifications and other information to assist in completing evaluations. For more OmniBook information, refer to the following OmniBook documentation.

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 or Windows NT.	This is shipped with your OmniBook and contains information about using the standard features of Windows 95 or Windows NT 4.0.
OmniBook website	<a href="http://www.hp.com/omnibook">http://www.hp.com/omnibook</a> ( <a href="http://www2.hp.com/omnibook">http://www2.hp.com/omnibook</a> , European mirror)
<i>Corporate Evaluator's Guide</i>	This provides information about installing operating systems, as well as how to configure the OmniBook in a corporate, networked environment. Located at the OmniBook website.
Corporate Deployment Guide	This provides a set of tools and documentation to guide Corporate IT teams through the steps necessary for a successful mobile PC implementation within their enterprises.
HP Support Assist CD-ROM	See the <i>Support and Service</i> booklet for telephone numbers.

## Features and Support Information

### Getting Assistance and Support

#### OmniBook Quick Start Sheet

- Location: In box (printed document).
- Audience: End user.
- Content: Setting up the OmniBook, using power management options, selecting a factory-installed operating system, getting support (telephone and electronic).

#### OmniBook Setup Guide

- Location: In Box (printed document) and [www.hp.com/omnibook](http://www.hp.com/omnibook).
- Audience: End User, Corporate IT.
- Content: Setting up the OmniBook, selecting a factory-installed operating system, using accessories, installing memory or hard disks, connecting devices, changing the configuration (BIOS Setup Utility), recovery, system resources (including memory maps, interrupt settings, I/O addresses), and troubleshooting.

#### OmniBook User's Handbook

- Location: C:\OMNILIB\HPBOOK.EXE and [www.hp.com/omnibook](http://www.hp.com/omnibook).
- Audience: End User.
- Content: Basics of operating the OmniBook..

#### OmniBook Notes

- Location: C:\OMNIBOOK\OMNIBOOK.DOC.
- Audience: End User, Corporate IT.
- Content: This document details the late-breaking information that we could not include in the regular OmniBook documentation.

#### OmniBook Support and Service Booklet

- Location: In Box (Paper) and C:\OMNIBOOK\SUPPORT.TXT.
- Audience: End User, Corporate IT.
- Content: This document details OmniBook electronic and telephone support and service information.

### **OmniBook Dock Quick Start Sheet**

Location: OmniBook Dock Box (Paper).  
Audience: End User, Corporate IT.  
Content: Setting up the Dock, support information.

### **OmniBook Dock User's Guide**

Location: OmniBook Dock Box (printed document) and [www.hp.com/omnibook](http://www.hp.com/omnibook).  
Audience: End User, Corporate IT.  
Content: Setting up the Port Replicator, using and connecting devices to the Port Replicator, troubleshooting, support information.

### **3rd Party Hardware Application Notes**

Location: [www.hp.com/omnibook](http://www.hp.com/omnibook).  
Audience: Corporate IT and Resellers/Integrators.  
Content: Applications notes contain information on the supported and tested ISA, PCI and PC Cards in each operating system. Each card has an application note that describes how to configure it in HP OmniBooks.

### **Approved and Tested Solutions List**

Location: [www.hp.com/omnibook](http://www.hp.com/omnibook).  
Audience: Corporate IT and Resellers/Integrators.  
Content: Shows each 3<sup>rd</sup>-party product and whether or not it passed or failed in each operating system on each OmniBook.

### **Corporate Evaluator's Guide**

Location: [www.hp.com/omnibook](http://www.hp.com/omnibook).  
Audience: Corporate IT, Resellers/Integrators.  
Content: Information about installing operating systems, as well as how to configure the OmniBook in a corporate, networked environment. Located at the OmniBook website.

### **Corporate Deployment Guide**

Location: [www.hp.com/omnibook](http://www.hp.com/omnibook).  
Audience: Corporate IT, Resellers/Integrators.  
Content: Set of tools and documentation to guide Corporate IT teams through the steps necessary for a successful mobile PC implementation within their enterprises.

## Features and Support Information

### Getting Assistance and Support

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#### To get HP OmniBook assistance

If you need assistance with your HP OmniBook or HP OmniBook accessory, use any of the following support services:

<b>Provider Type</b>	<b>Type of Assistance</b>
HP Electronic Support Services	Product literature, news, support documentation, applications notes, FAQ's, software and Approved and Tested Solutions
HP-approved support providers	Local HP-approved support assistance Warranty qualification and warranty repair service Out-of-warranty repair service or referral to an HP Service Center
HP Customer Support Centers	Telephone support assistance--free during warranty period In and out of warranty repair qualification and repair process
HP-authorized resellers	Local support assistance Referral to Customer support center or HP-approved support provider

#### Electronic support services

See the next topic below for a listing of services.

#### Customer Support Centers

See the second topic below for a listing of contacts.

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#### To find Electronic Support Services

##### World Wide Web

Download technical information, drivers and software from the HP OmniBook website: <http://www.hp.com/omnibook>

##### HP First (Fax Service)

800-333-1917 (North America)  
208-344-4809 (Outside North America)

##### HP Bulletin Board Services (BBS)

North America	(208)344-1691
Austria/Germany	(1)865.8799
Belgium/Dutch and French	(2)778.3819
Belgium/French	(2)778.3819
Denmark/Danish	(45)991905
Finland/Finnish	(9600)7280
France/French	3616 HP MICRO (Service Minitel)
Germany	*HP# Datex J-BTX system

Features and Support Information  
**Getting Assistance and Support**

Italy	(2)753.32.27
Netherlands	0495546909
Norway	(2)273.5697
Sweden	(8)750.6262
Switzerland/French	(64)560200
Switzerland/German	(64)560200
United-Kingdom	(1344)360880
WorldWide (US)	(208)344-1694

**America Online (HP Forum)**

**America Online/Bertlesmann (HP Forum) (Europe)**

**Optional Support Assistant CD-ROM**

(for information: <http://www.hp.com/cposupport/eschome.html>)

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**To contact Customer Support**

The HP Customer Support Centers will assist you free of charge during the term of the product warranty. (You are responsible for the telephone charges.)

OmniBook customers can utilize HP's 24 X 7 phone support available in the local language during business hours and English only after hours and on weekends. Customers call their usual support phone numbers any time. The very same level of technical support is available regardless of the time of day or day of the week.

**US/Canada (English)** (970) 635-1000

**Canada (French) Montreal** (970) 635-1000 English  
(800) 387-3867 French

**Asia Pacific** (970) 635-1000

**Europe**

Belgium (Dutch):	02.626.8806
Belgium (French):	02.626.8807
Denmark (Danish/Swedish):	3929.4099
Finland (Swedish/English):	0203.47.288
France (French):	01.43.62.34.34
Germany (German):	0180.52.58.143
Ireland (English):	01.662.5525
Italy (Italian):	02.2.641.0350
Norway (Norwegian/Swedish):	22.11.6299
Spain (Spanish):	902.321.123
Sweden (Swedish):	08.619.2170
UK:	0171.512.52.02

**Latin America** (970) 635-1000

## Features and Support Information

### Getting Assistance and Support

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#### To get repair assistance

**Under Warranty:** Contact one of the support providers or an HP Service Center to receive warranty service. The support provider will help qualify your unit for warranty repair based on the warranty applicable to your unit and original purchase date, and will provide you with repair processes in your area. Warranty service does not include cost of shipping, handling, duties, taxes, freight or fees to the service location.

**Out of Warranty:** Contact one of the support providers or an HP Service Center. The support provider will provide you with repair charges and processes in your area, or will refer you to a repair center.

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#### Hewlett-Packard Limited Warranty Summary

The following table summarizes Hewlett-Packard's limited warranty. The *OmniBook Support and Service* booklet contains complete warranty information.

## Removing OmniBook Passwords

If you forget your password, Hewlett-Packard has a procedure to allow you to remove it. There is a master password that will unlock each OmniBook. You must call Technical Support and give acceptable proof-of-ownership of your OmniBook. The fact that the OmniBook is in the hands of an HP representative is not evidence of ownership. In addition, HP will not remove a password from an OmniBook for anyone other than the owner, even if it involves law enforcement agencies.

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### To remove the password

#### **Send the following documentation by fax or mail**

- Acceptable proof-of-ownership (sales receipt, purchase order, etc.) with the following information:
  - OmniBook's serial number.
  - Owner's name.
  - Where purchased.
  - Date of purchase.
- A *written* password removal request should have the following information:
  - Date of request.
  - Requester's name, address, and telephone number.
  - From whom was the OmniBook acquired (company, store, gift, etc.).
  - The OmniBook model number (such as OmniBook 7100).
  - The OmniBook's serial number.
  - The requester's signature. (no typed or electronic signatures).
  - If available, a secondary signature (supervisor, manager, spouse, previous owner).

## Features and Support Information

### Removing OmniBook Passwords

#### When you call HP Technical Support, follow these steps.

You'll need to generate a master password before you can remove a user password. The encoded master password is a unique alphanumeric sequence that the OmniBook generates each time the appropriate key are pressed in the BIOS Setup Utility. Because of this, a master password can be used only *once*. If you forget your password again, you must place another call to Technical Support.

1. Restart the OmniBook and press F2 when you see the HP logo.
2. Press F12 at the Password prompt.

The OmniBook generates and displays an encoded master password.

3. Read the encoded password to Technical Support.
4. Technical Support runs a program that decodes the encoded master password.
5. Press ENTER, then type the decoded alphanumeric password Technical support generates.

The OmniBook decodes the master password and compares it to the password entered:

- If the passwords match, the OmniBook unlocks. The user's original password is erased. Technical Support can then guide you through the process of entering a new password.
- If the passwords do not match, repeat the previous sequence until the correct master password is entered.

The password removal program for the HP OmniBook PCs is protected as HP Company Confidential information. This program may not be copied, backed-up, printed or distributed. The number of password removal programs worldwide is very limited. Each time the program is used, the owner's name, the OmniBook's serial number and the date and time are recorded. This log is subject to HP's standard record-retention process and review.

## Using Electronic Serial Numbers

Beginning with the OmniBook 3000 and OmniBook 800 notebooks, Hewlett-Packard ships OmniBooks with an electronic serial number. This will be continued on all future products.

An electronic serial number can help IT managers track assets and software configurations. The serial number can also be used for tracking lost or stolen notebooks.

The Desktop Management Interface (DMI) TopTools application shipped with our new products can be used to read the serial number locally or remotely across a network.

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### To ensure serial number security

To support electronic serial numbers, HP will check for the serial number at configuration of the Motherboard, in manufacturing, and through support services.

#### **Manufacturing**

All OmniBooks will have electronic serial numbers set in manufacturing.

#### **Service**

If an OmniBook motherboard is replaced, the HP authorized repair facility must program the electronic serial number before returning the unit to the customer.

#### **OmniBook motherboard Configuration**

If for some reason the electronic serial number is not set, the OmniBook will prompt with the following message and wait for a key press when powered on for the first time:

```
Invalid Electronic Serial Number  
Press any key to continue
```

After a key press, the OmniBook continues the normal boot process.

Hewlett-Packard has also provided a utility called ESN.EXE in the C:\OMNIBOOK directory to set the serial number. This program must be run in MS-DOS. This Utility does the following:

1. Checks to make sure no electronic serial number is set.
2. Prompts to confirm that you want to set the serial number.
3. Prompts for the serial number and gives the location (bottom of unit).
4. Confirms the Serial Number is valid. If it is, it asks you to verify the serial number. If it is not correct, it prompts for the serial number again.

## Features and Support Information

### Using Electronic Serial Numbers

5. It burns the electronic serial number into flash memory and prompts you to restart the OmniBook.

---

#### To correct an incorrect serial number

If for some reason the customer receives an OmniBook with an incorrect electronic serial number, the customer can run the ESN and it will do the following:

1. Ask the user to verify the serial number is correct.
2. If the user answers no, it will give the user a pass number. The user must call HP customer support and give the pass number.
3. The HP customer support representative will give the user a password that will remove the current serial number.
4. Restart the system and follow the instructions above to set a new serial number.

---

**Note**

You can safely update the OmniBook BIOS without impact to the serial number. BIOS updates do not erase the electronic serial number located in the motherboard.

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