Tips and Troubleshooting

1 Tips for Using Your OmniBook XE

2 Troubleshooting

3 Specifications

1 Tips for Using Your OmniBook XE

Configuring the OmniBook XE with the BIOS Setup Utility

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

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

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

To run the BIOS Setup utility

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

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

Main Menu		**Default**
BIOS Revision	Shows the current BIOS version.	Detected automatically.
System Time	Sets the time using 24hour format. Values set take effect immediately.	
System Date	Sets the date using dd/mm/yy format (except English, which is mm/dd/yy 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.
Secondary Master	Sets the CD-ROM drive type and various parameters.	CD-ROM drive detected and set automatically.
Display Device	Sets whether the builtin display automatically switches to an external display if one is detected.	Auto
PS/2 Mouse	Disables the touchpad when an external PS/2 mouse is connected. This is required for the scroll wheel on a PS/2 mouse to function.	Auto
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 poweron selftest 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	Sets the hardware to support SIR (Standard IR) or FIR (Fast IR) infrared communications. (Driver installation required.)	SIR
Base I/O address	Sets the I/O address and interrupt.	2F8 IRQ3
DMA channel	For Fast IR mode, 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.	ECP
Base I/O address	Sets the I/O address.	378 IRQ7
DMA channel	For ECP mode, sets the DMA channel.	DMA 1
Local Bus IDE Adapter	Enables the primary (hard drive) and secondary (CDROM drive) controllers.	Both
Floppy disk controlle	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, 09, AZ.	
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	Controls 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 on 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. (Skips Standby mode if that timeout is disabled.)	2 minutes
Hibernate Timeout	Sets whether the computer goes from Suspend to Hibernate power mode after the indicated period of inactivity. (Skips Suspend mode if that timeout is disabled.)	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
Resume on Time	Sets whether the system resumes from Suspend at a defined time of day.	Off
Resume Time	Sets the 24hour 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

***** If you are using Windows 98 and have installed ACPI power management, the ACPI settings
override settings in the Power menu.

Boot Menu		**Default**
Removable Devices Hard Drive CDROM 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. CDROM Drive

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.

Testing the Operation of the OmniBook XE

The OmniBook hardware diagnostic program provides two levels of testing:

- Automated testing using the basic hardware test.
- Advanced testing using the individual hardware tests.

The tests are designed to run after the system reboots. This ensures that the computer will be in a predictable state, so the diagnostic program can properly test the hardware components. The tests are nondestructive 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.
- On any computer with a CDROM drive, run **diaginst** from the \Omnibook\Drivers\Hputils directory on the *Recovery CD*.
- On any computer with World Wide Web access, download the diagnostic software package from the OmniBook website (http://www.hp.com/omnibook), run this file to unpack the files, then run **diaginst** to create the diagnostic disk.

To run the diagnostic test

1. Insert the diagnostic disk in the floppy drive.
2. Reboot the OmniBook.
3. When you see the initial screen, press F2 twice to continue.
4. When the hardware detection finishes, check the list of detected hardware.

   If a device is not detected or fails its test below, it may be configured incorrectly in the BIOS Setup utility. You can confirm the problem by running BIOS Setup and checking the settings.
5. **Run the basic test**. Press F2 twice to start the basic hardware test.

27610220. Wait until the test has finished.

27610221. 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.

27610222. **Optional: Run the advanced tests**. Press F2 twice to open the advanced test screen.

27610223. 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.

27610224. When you have finished running tests, press ESC to exit the advanced tests.

27610225. Optional: Press F4 to save system and test information in the Support Ticket log file, HPSUPPT.TXT.

27610226. Exit. Remove the diagnostic disk and press F3 to exit and reboot.

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. It contains a list of all test results and errors.

Creating a Hibernate Partition

When you receive your OmniBook XE, it is set up with a Hibernate partition, a section of the hard disk drive that is reserved for automatically saving your current session from RAM when battery level is low. If you later run the Recovery CD, the Hibernate partition is set up again.

But in some cases, you may want to adjust the size of the Hibernate partition. For example, if you install a total of more than 192 KB of random access memory (RAM), you will need to change the default size of the Hibernate partition. The Hibernate partition must be large enough to accommodate all the information stored in RAM; otherwise, you risk losing work in progress.

You can create the Hibernate partition by booting from the Recovery CD. This process will reformat the hard disk, so be sure to back up your data first.

1. Back up all data from your hard disk.
2. If you wish to install additional RAM, do so now.
3. Connect the ac adapter to the OmniBook.
4. Insert the bootable Recovery CD in the CD-ROM drive.
5. Reboot and, when you see the HP logo, press ESC twice.
6. Select the CD-ROM drive as the boot device, and press ENTER.
7. Select your keyboard layout, and press ENTER.
8. Choose option 2: Recover Windows 98 from OmniBook Recovery CD-ROM.

   (If you want to create a Hibernate partition without installing Windows 98 or any of the included software, choose Option 3: Create Hibernate Partition. When you choose Y to continue and follow the prompts, your hard disk will be repartitioned and empty.)
9. Choose Y to continue.

   If you see a message that there is no operating system available, repeat steps 5 and 6 and continue.
10. When prompted, select Create Hibernate Partition. Accept the recommended hibernate partition size.

    The size is calculated automatically based on your total RAM; for example, if you use two 128 KB memory cards, it is 256 KB. The Hibernate partition is never smaller than 192 KB.
11. If you are installing Windows 98, select a file system (FAT16 or FAT32).

    The default file system for Windows 98 is FAT32.

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

Recovering Software

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

This page describes how to

- Recover the factory installation of Windows 98.
- Install the OmniBook online *User's Guide*.
- Recover a damaged *Recovery CD* or hard disk drive.
- Update the OmniBook BIOS.
- Get drivers for other operating systems.

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

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

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

The OmniBook *Recovery CD* includes the following

Directory	Contains
README.TXT text file	Instructions for using the *Recovery CD*.
RECOVER\	
BOOTDISK	For creating your own copy of a boot disk.
OMNIBOOK\	
HPUTILS	For installing the online *User's Guide* or to copy the OmniBook Notes and Support files to the \OmniBook directory on your hard drive.
DRIVERS	For manually installing individual device drivers for your factory-installed operating system. The README file in OmniBook\Drivers contains complete installation instructions. If you need drivers for other operating systems, go to the OmniBook website at http://www.hp.com/omnibook
MANUALS	For viewing the online *User's Guide* from the CD. See HPUTILS above to install the *User's Guide*.
PROGRAMS	For installing applications like McAfee VirusScan and Adobe Acrobat.
TOOLS\	For installing additional utilities that come with your system.

To recover the factory installation of Windows 98

The following procedure describes how to recover the original Windows 98 operating system that came with your OmniBook.

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

1. Back up all data from your hard disk.
2. Connect the ac adapter to the OmniBook.
3. Insert the bootable Recovery CD in the CD-ROM drive.
4. Reboot and, when you see the HP logo, press ESC twice.
5. Select the CD-ROM drive as the boot device, and press ENTER.
6. Select your keyboard layout, and press ENTER.
7. Choose option 2: Recover Windows 98 from OmniBook Recovery CD-ROM.
8. Choose Y to continue.

   If you see a message that there is no operating system available, repeat steps 4 and 5 and continue.
9. When prompted, select Create Hibernate Partition. Accept the recommended hibernate partition size.

   The size is calculated automatically based on your total RAM; for example, if you use two 128 KB memory cards, it is 256 KB. The Hibernate partition is never smaller than 192 KB.
10. If you are installing Windows 98, select a file system (FAT16 or FAT32).

    The default file system for Windows 98 is FAT32.

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

To install the online *User's Guide*

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

1. Insert the *Recovery CD* in the drive.
2. From the \OmniBook\Hputils\Disk1 directory on the CD, doubleclick SETUP.EXE. The OmniBook Application Software Setup screen appears.
3. Click Next.
4. Click "OmniBook Online Documentation."
5. Click Install Now.

To update the OmniBook BIOS

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

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

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

1. If you are updating the BIOS from a CD, reboot and, when you see the HP logo, press ESC twice, then select the CD-ROM drive as the boot device, and press ENTER.
2. Connect the ac adapter to the OmniBook.
3. Remove any PC Cards and, if the OmniBook is docked, undock it.
4. Insert the BIOS Update disk or CD in the appropriate drive.
5. Press the blue power button.
6. When prompted, choose the correct language.
7. When prompted, press C and follow the onscreen instructions. This starts a process that takes approximately 1 minute. Once the update process begins, do not interrupt it.

Enabling Pulse Dialing in France, Belgium, and Spain

If your OmniBook XE was purchased in France, Belgium, or Spain, the Loop Disconnect feature (pulse dialing) may be disabled for your modem. National certifications for Loop Disconnect are expected to be completed in February 1999, so that you can then use pulse dialing rather than default tone dialing. As soon as instructions are available about enabling this feature, you will find them here.

Using Enhanced Video and Dual Monitors

To use your OmniBook with dual monitors, first install the supplemental video driver.

Installing the Supplemental Video Driver

Standard video drivers are installed on your OmniBook XE for various settings of screen area and colors, as well as for screen zoom capabilities. If you wish to use additional video features such as Stretch and Rotate, you can install a supplemental video driver.

1. In Windows Explorer, open the folder c:\omnibook\video\controls.
2. Double-click Setup.

   If you choose to install this video driver, do not select 256 colors, since the background is sometimes distorted. Choose a greater color depth.
3. Click Start, Settings, Control Panel, Display.
4. Select the Settings tab, choose either High Color (16 bit) or True Color (24 bit), and click OK.

Using the Video Control Panel

After you have installed the supplemental video driver, you have available a video control panel.

1. Click Start, Settings, Control Panel, Display.
2. Select the LynxE tab and use the controls available there for additional features, such as Stretch and Rotation, turning LCD (built-in display) and CRT (external monitor) on and off, and enabling video hot keys.

Using Two Monitors

You can use two monitors with your OmniBook, either in dual mode, effectively expanding your screen real estate, or in simultaneous mode, displaying the same screen twice. The LCD monitor that is part of the OmniBook is the primary display (Monitor 1), and a second CRT monitor attached to the rear video port is the secondary display (Monitor 2). You can also, of course, switch from one monitor to the other, using only one at a time.

To enable the dual monitor display:

1. Click Start, Settings, Control Panel, Display.
2. Select the Settings tab and drag the monitors to match their physical arrangement.
3. Select each monitor and set the colors and screen area to the desired values. For the OmniBook:

- If you have a 12.1inch display, set it to High Color (16 Bit) and 800x600 screen area.
- If you have a 13.3inch display, set it to 256 colors and 1024x768 screen area.

Here are some other limitations to be aware of as you choose your monitor settings:

- The sum of the video memory used by both monitors must be less than the total video memory size. Your OmniBook comes with 2 MB memory installed.
- Monitor 1 has to be in the same resolution as the panel size. For example, if the panel is 800x600, the resolution selected for the Monitor1 must be exactly 800x600 in order to enable dual display mode. If the resolution is set to 1024x768, simultaneous mode only can be supported.

- Monitor 1 can be set to 256 colors or High Color (16 Bit) mode, not True Color (24 bit) mode, since Virtual Refresh can only be supported in 256 color and High Color (16 Bit) modes. Monitor 2 can be set to 256 color, High Color (16 Bit), or True Color (24 bit) mode, provided that there is sufficient video memory requirement.
- Monitor 1 and Monitor 2 cannot both be in 256 color mode.
- Settings cannot be changed on Monitor 2 if DirectDraw is enabled—for example, if video is playing—since the display driver cannot reallocate the display memory for dual display support.
- Under dual display mode, only the software cursor can be used. There is no hardware cursor available under Virtual Refresh mode.
- Dual display mode is not available if you are currently in a special mode from the LynxE video contron panel settings, such as Rotation or Stretch.
- Games that use the DirectDraw API cannot run in dual display mode. You will be prompted to disable Monitor 2 before running the game.

2 Troubleshooting

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

Audio Problems

If sound is not audible

- Press Fn+Up Arrow several times.
- Doubleclick the speaker icon on the taskbar to ensure that Mute is not checked.

If sound doesn't record

- Check software controls for recording sound (Start, Programs, Accessories, Multimedia, Sound Recorders).

CDROM Drive Problems

If you can't boot from a CD in the CDROM drive

- Make sure the CD is a bootable CD, such as the OmniBook *Recovery CD*.
- Press ESC twice during bootup to see if the CDROM drive is the first boot device.
- If you always want to boot from a CD, check boot order in BIOS Setup.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. Open the Boot menu. The default boot order is

- Removable devices
- Hard drive
- CDROM drive

4. Use the arrow keys to select the CDROM drive.
5. Press F6 to move up (or F5 to move down) in the list.
6. Press F10 to Save and Exit the BIOS Setup utility.

- Reboot the OmniBook.

Display Problems

If the OmniBook is on, but the screen is blank

- Press Fn+F1 or Fn+F2 to adjust the display.
- Press Fn+F12 in case the internal display was disabled. (Do this three times to return to the state you started from.)
- If the OmniBook is cold, allow it to warm up.

If the screen is difficult to read

- Check whether the display resolution is set to its default setting—800 × 600 for 12.1" display or 1024 × 768 for 13.3" display. Check this in Start, Settings, Control Panel, Display, Settings.
- Check brightness (Fn+F2 to increase brightness).

If the external display does not work

- Check the connections.
- Press Fn+F12 in case the external monitor was disabled. (Do this three times to return to the state you started from.)
- The external monitor may not be detected. In the BIOS Setup utility, try setting Video Display Device to Both in the Main menu.
- If the monitor is connected to a video adapter in a docking system, in BIOS Setup make sure the Primary Video Adapter is set to Auto in the Main menu.

Hard Disk Drive Problems

If the OmniBook's hard drive doesn't spin

- Check the power source.

If the hard disk makes buzzing or whining noise

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

If files are corrupted

- Run the McAfee VirusScan program.
- Run the Scandisk surface scan to check the platter. From the Start menu, click Programs, Accessories, System Tools, ScanDisk.

Keyboard and Pointing Device Problems

If the touchpad is difficult to control

- Customize the touchpad by using the Mouse icon in Control Panel (Start, Settings, Control Panel).

If the touch pad doesn't work

- Make sure the touchpad is enabled in the BIOS Setup utility.
  1. From the Start menu, shut down, then restart the OmniBook.
  2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
  3. From the Advanced menu, check PS/2 Mouse.
  4. Set to Auto.
  5. Press F10 to Save and Exit the BIOS Setup utility.
- Reset the OmniBook.
- Don't touch the touchpad while booting or resuming.

If the embedded numeric keypad doesn't work

- Make sure Num Lock is on.
- Don't touch the touchpad while booting or resuming.

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

- The built-in touchpad must be disabled for special mouse features to work. In the BIOS Setup utility, check that the PS/2 Mouse option is set to Auto in the Advanced menu.
- Make sure you installed any drivers included with the mouse.

Infrared Problems

If you have problems with infrared communications

- For infrared communications, an infrared driver must be installed and a BIOS Setup setting must be enabled. See OmniBook Notes on the Windows 98 desktop for more information.
- Make sure the infrared light path is not blocked.
- Line up the OmniBook's infrared port and the other infrared port in as straight a line as possible. The two ports should be no more than 1 meter apart, with no obstructions in between.
- Check settings in BIOS Setup utility.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Advanced menu, check that IrDA Port is enabled.
4. Check that FIR (Fast IR) mode is selected.
5. Press F10 to Save and Exit the BIOS Setup utility.

- Check that only one application is using the infrared port.
- For FIR, check for DMA channel conflict with other ports.
- Remove any PC Cards. An infrared IRQ conflict is possible if two PC Cards are plugged in at the same time.
- Reboot the OmniBook.

Memory Problems

If a message says you are out of memory

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

PC Card (PCMCIA) Problems

If the OmniBook doesn't recognize a PC Card

- Remove and reinsert the PC card.
- If the card requires an IRQ, check that there is one available. Look in Device Manager, Properties, Interrupt Request (IRQ).
- Check the OmniBook website for information about supported PC Cards.
- Try the card in another computer.
- Reboot the OmniBook.

Performance Problems

If the OmniBook gets hot

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

If the OmniBook pauses or runs sluggishly

- Press CTRL+ALT+DEL to see if an application is not responding.

- Reboot the OmniBook.
- Delete temporary and unneeded files.
- This may be normal Windows behavior (background processing can affect response time).
- Check the BIOS Setup settings.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Power menu, set Cooling Control to Performance.
4. Press F10 to Save and Exit the BIOS Setup utility.

- Certain background operations (such as McAfee VirusScan) can affect performance while they're running.
- Some file browsers may be unresponsive while they're processing a graphic image or waiting for broken network connections to time out.
- Install additional memory if Windows is spending a lot of time swapping to disk.
- Check amount of available free disk space.
- Try disabling Advanced Power Management.

Port Replicator Problems

If a port on a port replicator isn't working

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

Power and Battery Problems

If the OmniBook turns off immediately after it turns on

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

If the OmniBook keeps beeping

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

If the OmniBook has a short operating time

- Try conserving power by setting power timeouts to shorter periods.
- If you are running any applications with an automatic save feature, such as MS Word for Windows, disable this feature.
- If the operating time has become shorter and the battery is more than a year or two old, you may need to replace the battery.
- Turn down the display brightness (Fn+F1).
- Heavy modem use can affect battery operating time.
- Check the Power Management settings in BIOS Setup.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Power menu, make sure Power Savings is set to Max Battery Life.
4. Press F10 to Save and Exit the BIOS Setup utility.

If the battery doesn’t charge

- Make sure the ac adapter is plugged into the power source.
- If you're using a power strip, remove the ac adapter from the power strip and plug it directly into a wall outlet.
- Check that the light on the ac adapter is on.
- Check that the battery is fully installed and locked in place.
- Turn off the OmniBook, then check that the battery contacts are clean and that the ac adapter cables are fully plugged in.
- Move the OmniBook away from any nearby heat source. Unplug the ac adapter and allow the battery to cool down. An elevated battery temperature prevents charging.
- If available, try another battery and ac adapter.

If the OmniBook stops responding

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

If the OmniBook doesn’t suspend as expected

- If you have a connection to another computer, the OmniBook doesn’t suspend if the connection is actively in use.
- If the OmniBook is performing an operation, it normally waits for the operation to finish.
- Make sure auto insert notification is disabled for the CD-ROM drive. This is the default factory setting. View the CD-ROM drive properties in Device Manager.

Printing Problems

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

If a serial or parallel printer doesn’t print

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

If an infrared printer doesn’t print

- Make sure the infrared light path is not blocked.
- Check for paper in the printer or other printer errors.
- Make sure Windows is running—infrared printing is supported only while Windows is running.
- An infrared driver must be installed and the BIOS Setup setting must be enabled. For details, refer to Omnibook Notes on your desktop.
- In Windows Help, use the Print Troubleshooter.

If the left edge of printed output is missing

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

Serial, Parallel, and USB Problems

If a serial mouse doesn't work

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

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Advanced menu, check that Parallel or Serial is enabled.

If a serial modem doesn't work properly

- In Windows Help use the modem troubleshooter.
- Check the port connection (it may be loose).
- Check settings in BIOS Setup.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Advanced menu, check that Parallel or Serial is enabled.

If an I/O card stops communicating properly

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

If the serial or parallel port is not working

- Check the port connection (it may be loose).
- Check settings in BIOS Setup.

1. From the Start menu, shut down, then restart the OmniBook.
2. When you see the HP logo, press F2 to enter the BIOS Setup utility.
3. From the Advanced menu, check that Parallel or Serial is enabled.

If the USB port is not working

- Contact the vendor of the peripheral device, as well as HewlettPackard, for the latest versions of the USB drivers.

Startup Problems

If the OmniBook doesn't respond at turnon

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

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

If the OmniBook doesn't boot from battery power

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

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

- Check boot order in BIOS Setup utility.

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

3 Specifications

Hardware Specifications

Physical Attributes	Size: 311mm×249mm×42mm (12.24”×9.80”×1.64”) closed. Weight: 3.0 kg (6.6 lb.).
Processor and Bus Architecture	266MHz OR 300MHz OR 333MHz Intel Celeron processor MMX technology 3.3V lowpower processor. 128KB pipelineburstsynchronous L2 cache. 32bit PCI bus.
Graphics	12.1inch DSTN display (800×600×24M colors). OR 12.1inch SVGA activematrix (TFT) display (800×600×24M colors). OR 13.3inch XGA activematrix (TFT) display (1024×768×16M colors). SMI LynxE SM811 graphics controller with 2MB 135MHz SGRAM. Zoomed Video support for lower PC Card slot. Dual-monitor support.
Power	Rechargeable 8cell lithium ion battery with LED chargelevel gauge (14.4 Vdc, 4.2 AH, 60 watthours). Battery life (one battery): 3.25 to 4.25 hours run time. Fast battery recharge: 80% in 1.6 hours, 100% in 2.1 hours. Lowbattery warning. Suspend/resume capability. 60watt ac adapter: 115 to 230 Vac (47 to 63 Hz) input, 19 Vdc, 2.46 A output.
Storage	24X CDROM drive. 1.44MB floppy disk drive. 4.0GB hard disk drive.
RAM	32MB SDRAM OR 64MB SDRAM preinstalled. Two slots for RAM expansion up to 256 MB maximum.
Audio System	16bit, Sound Blaster Procompatible. ESS M-2EM PCI audio. 64-voice wavetable synthesizer. Stereo sound via two builtin speakers. Builtin microphone. Stereo linein and monophonic microphonein jacks. ZV port audio interface.
Keyboard and Pointing Device	87/88key touchtype QWERTY keyboard with 101/102 key emulation. Embedded numeric keypad. 12 function (Fn) keys. Touchpad pointing device.

Input/Output	Universal serial bus (USB). 9pin, 115,200bps serial (16550 UART). 25pin bi-directional ECP/EPP parallel. Videoout (up to 800×600×16M colors at 75Hz refresh rate. PS/2 keyboard/mouse port. IrDA 1.1 (Fast IR) infrared port.
Expandability	One Type III or two Type II 16/32bit PC Card slots (3.3 and 5V support). CardBus enabled. Lower slot supports Zoomed Video. Optional enhanced port replicator.
Software	Microsoft Windows 98. Windows 98-compatible PlugandPlay. Power management. McAfee VirusScan. Adobe Acrobat Reader. My Yahoo! HP Guardian diagnostic tests. Online documentation. Electronic registration. OmniBook *Recovery CD* included. Centralized worldwide BIOS and driver update service.
Security Features	User and supervisor passwords. Kensington Microsaver lock slot.
Environmental Limits	Operating temperature: 5 to 35 ºC (41 to 95 ºF). Operating humidity: 20 to 80 percent RH. Storage temperature: –20 to 60 ºC (–4 to 140 ºF). Storage humidity: 8 to 90 percent RH.
Major ICs	CPU: Intel Celeron. North Bridge: 443DX. South Bridge: PIIX4e. Video: SMI LynxE SM811. Audio: ESS M-2EM. CardBus: TI PCI1225. Keyboard controller: National PC87570. Super I/O: National 97338.

Software System Resources

The tables on this page show typical resource usage as set up by the OmniBook BIOS. Plugandplay operating systems, drivers, and BIOS setup settings may change some of the entries. To see other, nondefault possibilities, refer to the BIOS Setup utility, which lists port and audio device configurations in the Advanced menu.

System Interrupts

0	System timer
1	Keyboard
2	Cascade from secondary interrupt controller
3	COM2 (IrDA port)
4	COM1 (serial port)
5	Audio
6	Floppy disk drive
7	LPT1 (ECP parallel port)
8	Realtime clock
9	SCI in ACPI mode
10	PCI IRQ (shared by all PCI devices)
11	Free (or MIDI, if enabled).
12	Touchpad, PS/2 mouse
13	Numeric coprocessor
14	Internal hard disk drive (primary IDE controller)
15	Internal CDROM drive (secondary IDE controller)

System Memory

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

Valid uses for memory addresses D0000DBFFF:

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

System Input/Output Addresses (1003FF)

170177	Internal CDROM drive (secondary IDE controller)
1F01F7	Internal hard disk drive (primary IDE controller)
22022F	Audio
376	Internal CDROM drive (secondary IDE controller)
37837F	LPT1 (printer port)
38838B	Audio
3B03BB	VGA adapter
3C03DF	VGA adapter
3E03E1	PCMCIA controller
3F03F5	Floppy disk drive controller
3F6	Internal hard disk drive (primary IDE controller)
3F7	Floppy controller

3F83FF	COM1 (serial port)

DMA Channels

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