HP OmniBook Plug-In Modules

User's Guide

Notice

This manual and any examples contained herein are provided "as is" and are subject to change without notice. Hewlett-Packard Company makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. Hewlett-Packard Co. shall not be liable for any errors or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual or the examples herein.

Consumer transactions in Australia and the United Kingdom: The above disclaimers and limitations shall not apply to Consumer transactions in Australia and the United Kingdom and shall not affect the statutory rights of Consumers.

© Copyright Hewlett-Packard Company 1998. All rights reserved. Reproduction, adaptation, or translation of this manual is prohibited without prior written permission of Hewlett-Packard Company, except as allowed under the copyright laws.

The programs that control these products are copyrighted and all rights are reserved. Reproduction, adaptation, or translation of those programs without prior written permission of Hewlett-Packard Co. is also prohibited.

Portions of the programs that control this product may also be copyrighted by Microsoft Corporation, SystemSoft Corp., Crystal Semiconductor Corporation, Phoenix Technologies, Ltd., and NeoMagic Corporation. See the individual programs for additional copyright notices.

Microsoft, MS, MS-DOS, and Windows are registered trademarks of Microsoft Corporation. Pentium and the Intel Inside logo are U.S. registered trademarks and MMX is a U.S. trademark of Intel Corporation.

For warranty information, see the *Support and Service* booklet.

Hewlett-Packard Company
Mobile Computing Division
19310 Pruneridge Ave.
Cupertino, CA 95014, U.S.A.

Contents

1

Using OmniBook Plug-In
Modules

Using OmniBook Plug-In Modules

The OmniBook *Plug-in Modules User's Guide* describes OmniBook plug-in accessory modules and shows you how to install and use them. For complete information about operating the OmniBook, consult the OmniBook *Reference Guide* and the online *User's Handbook*.

This manual explains how to

♦   Replace a plug-in module in the OmniBook.

♦   Use the floppy disk drive.

♦   Use the CD-ROM drive.

♦   Use the Zip drive.

♦   Use the DVD drive.

♦   Use the second battery.
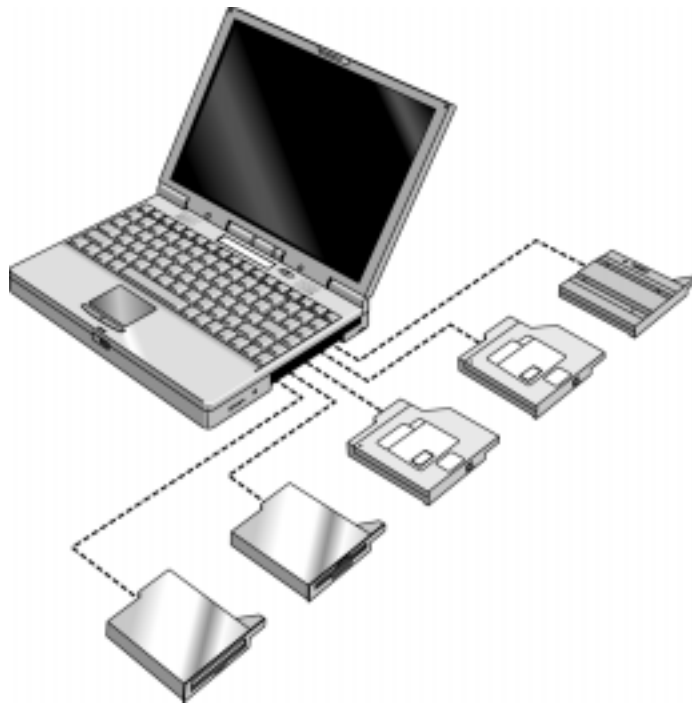
Replacing a Plug-In Accessory Module

Note

- For Windows 95/Windows 98, if Agaté Tioman hot-swap software is installed, a plug-in module icon appears at the right end of the taskbar. This software lets you swap most plug-in modules without shutting down the computer.

- If you are removing or inserting a hard disk drive in the module bay, you must shut down the computer.

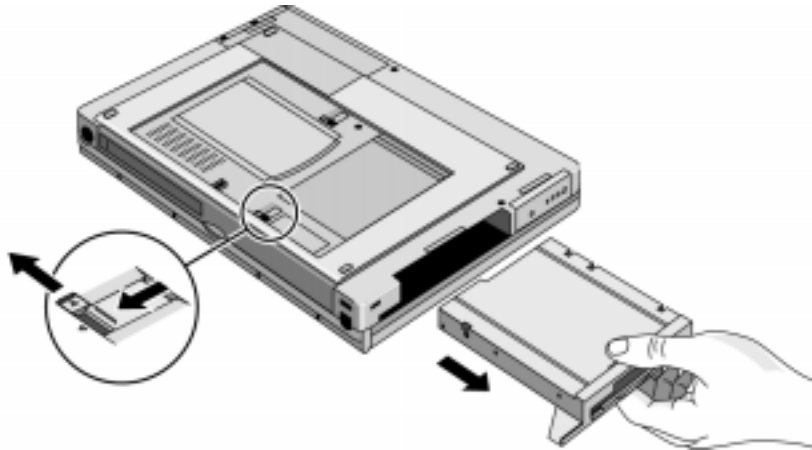- If you are removing a battery and inserting another battery, you do not have to do steps 1 and 2 below—you can just change the batteries.

C A U T I O N

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

1. Close all files that are open from the plug-in module.

2. If the plug-in module icon is present in the taskbar, right-click the icon, then click Remove Device. When prompted to remove the module, click OK. (You do not have to do this if the bay is empty or contains a battery.)
   −or−
   Click Start, Shut Down to shut down the computer.

3. Slide the safety latch for the plug-in module bay into its recess.

4. Slide *and hold* the release latch, then pull out the module, as shown.

5. Slide the new plug-in module into the OmniBook until it clicks into place.

CAUTION   Be sure the safety latch is open before you insert the module. Otherwise, the release latch could break if you force the module in.

6. Slide the safety latch back to its original position (in the direction of the arrow).
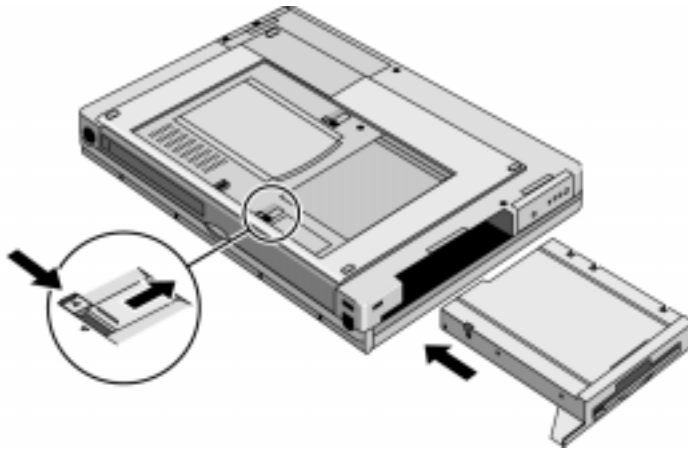
Using the Floppy Disk Drive

You can install the floppy disk drive in the plug-in module bay or attach it externally to the parallel port.

This section describes how to

♦ Connect the floppy disk drive externally.

♦ Insert or eject a floppy disk.

To connect the floppy disk drive externally

If you want to use the floppy disk drive while also using any other OmniBook plug-in module, you can use the floppy cable (optional accessory F1380A) to connect the floppy disk drive module to the OmniBook via the parallel port.

1. Connect the floppy cable to the floppy disk drive module and tighten the knurled thumbscrews.

2. Connect the other end of the floppy disk drive cable to the OmniBook parallel port, as shown below.
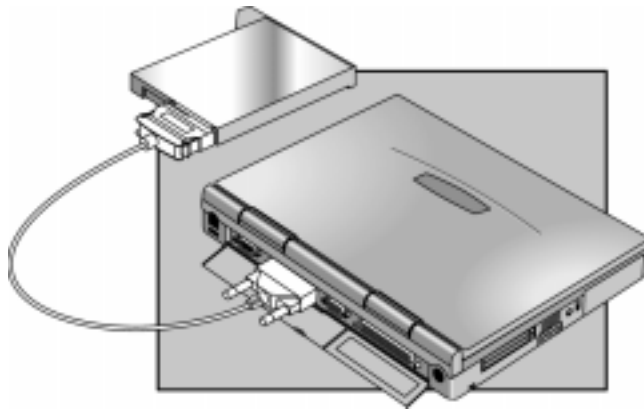
To insert or eject a floppy disk

CAUTION

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

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

Using the CD-ROM Drive

You can install the CD-ROM drive module in the plug-in module bay. This section describes how to

♦   Insert or remove a CD.

♦   Open the CD-ROM drive manually.

To insert or remove a CD

CAUTION

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

1. Press the button on the face of the CD-ROM drive. If you are using this drive for the first time, be sure to remove the cardboard packing insert if it is present.

2. Place the CD into the drive (label facing up) and gently press down to seat the CD on the spindle–or–remove the CD.

3. Close the door to the drive.

Open button
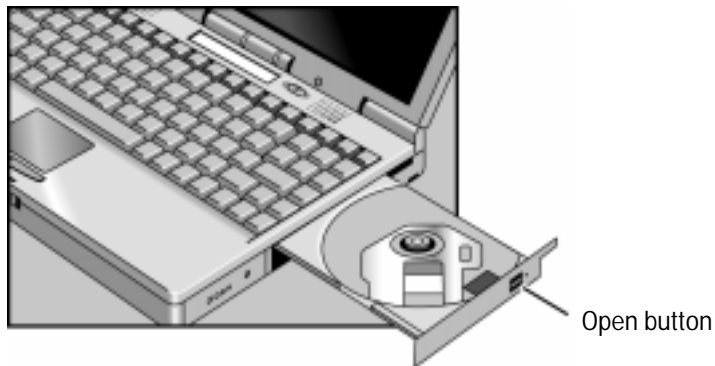
To open the CD-ROM drive manually

If you lose power to the OmniBook, or if you've removed the CD-ROM module from the OmniBook, you can manually open the CD-ROM drive to remove a CD.

* Carefully insert a straightened paper clip into the emergency eject hole, as shown below.
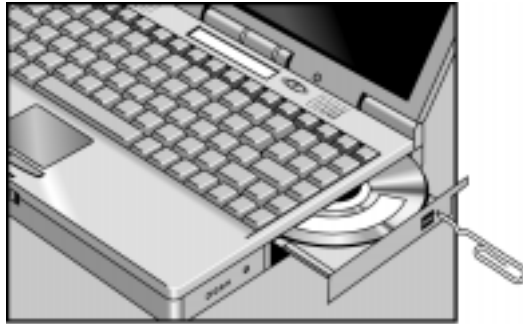
Using the Zip Drive

The Zip drive module allows you to store up to 100 MB of data on a Zip disk. You cannot boot from the Zip drive.

This section describes how to

♦ Install software for the Zip drive.

♦ Insert or eject a Zip disk.

♦ Eject a Zip disk manually.

To install the Zip drive software

The Zip drive comes with a CD containing software for the Zip drive. Follow these steps to set up this software.

1. Set up a CD-ROM drive for your OmniBook. (The Zip drive does not have to be installed at this time.)

2. Insert the Zip CD in the CD-ROM drive.

3. Click Start, Run, then type *drive*:\install and click OK, where *drive* is the drive letter of the CD-ROM drive. For example, type d:\install if the CD-ROM is drive D. This installs the Zip software so it's ready whenever you insert the Zip drive.

To obtain the latest versions of Zip drivers and software, go to the Iomega website at http://www.iomega.com.

Important   If you are using Windows NT and have purchased a Zip drive, you must download and install the latest version of the Phoenix APM and Card Executive drivers. These NT drivers must be installed for your Zip drive to work properly. To obtain the drivers and more information, go to the HP OmniBook website at http://www.hp.com/omnibook.

The update to the Phoenix drivers contains the Zip-fix hotfix from Microsoft.

To insert or eject a Zip disk

When the OmniBook is reading or writing data to the Zip drive, the drive indicator appears on the OmniBook status panel (above the function keys).

CAUTION   Always turn on power to the OmniBook before inserting a Zip disk. When you insert a Zip Disk, the green busy light will flash momentarily and go out. (If the light continues to blink slowly, push the disk eject button to eject the Zip disk, then insert it again.)

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

1. To insert the Zip disk, hold the disk with its face up and then gently insert it into the Zip drive.
2. To eject the Zip disk, gently press the eject button on the front of the Zip disk drive. Do not use excessive force. The green busy light blinks as the disk spins down. The drive takes a few seconds to eject the disk. Store all your Zip disks in their protective case when not in use.

   If you're using Windows 95, right-click the Zip drive in Windows Explorer or My Computer and select Eject. This will not work in Windows NT 4.0.

To eject a Zip disk manually

The OmniBook must be powered on for normal disk ejection from the Zip drive. If you need to remove a Zip disk from the drive when power is off, carefully push a straightened paper clip into the emergency eject hole located on the eject button.

CAUTION   Use the manual disk eject procedure only when OmniBook power is off. Do not try to forcibly remove a Zip disk from the drive. If the disk does not eject immediately, repeat the manual disk eject procedure.

Using the DVD Drive

Digital Versatile Disk (DVD) is a new standard of data storage. DVD disks deliver up to seven times the storage of CDs. DVD drives can also read standard CDs. You cannot boot from a CD or DVD in the DVD drive.

This section describes how to

- Insert or eject a DVD.
- Eject a DVD manually.
- Install the MPEG-2 PC Card and DVD Player software.
- Play a DVD movie.

To insert or eject a DVD

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

1. Press the button on the face of the DVD drive. If you are using this drive for the first time, be sure to remove the cardboard packing insert if it is present.
2. Place the DVD into the drive (label facing up) and gently press down to seat the DVD on the spindle–or–remove the DVD.
3. Slide the DVD tray back into the module to close it.

Open button
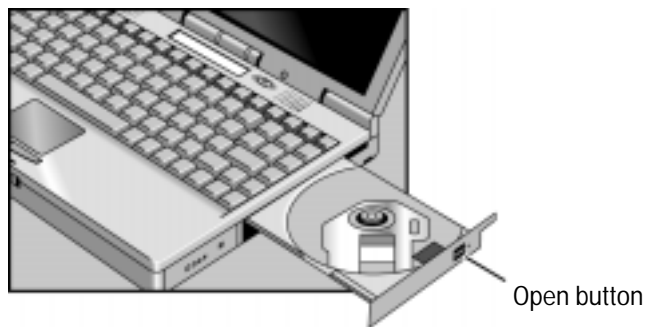
To eject a DVD manually

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

• Carefully insert a straightened paper clip into the emergency eject hole, as shown below.
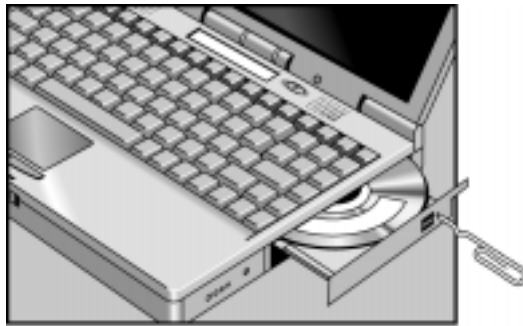
To install the MPEG-2 PC Card and DVD Player software

In order to play DVD movies, you must install the MPEG-2 PC Card and DVD Player software included with your DVD module.

Note

If you have Windows NT 4.0 on your OmniBook, you cannot play DVD movies. Windows NT 4.0 does not support zoomed video.

1. Insert the DVD module in the plug-in module bay.
2. Insert the CD-ROM included with the MPEG-2 PC Card into the DVD drive.
3. Insert the MPEG-2 PC Card in the lower card slot.
4. When the PC Card is detected, follow the instructions to load the appropriate driver from the CD-ROM.

5. After the driver is successfully installed, run the Setup program on the CD-ROM included with the MPEG-2 PC Card and follow the installation instructions. This installs the DVD Player software onto your hard disk.

Note For complete instructions on the driver and player installation process, refer to the installation instructions included with the MPEG-2 PC Card.

To play a DVD movie

After you have installed the MPEG-2 PC Card and DVD Player software included with your DVD module, you can play a DVD movie.

1. Insert the DVD Module and MPEG-2 PC Card into your OmniBook.

Note If you do not have hot-swap drivers installed in your OmniBook, it may be necessary to shut down Windows prior to inserting the DVD plug-in module.

2. Insert the DVD disk into the module.
3. Click Start, Programs to run the DVD Player software.

Using the Second Battery

To increase the time you can work on battery power, you can install a second battery in the OmniBook's plug-in module bay.

The Battery indicator above the keyboard shows the combined charge level of the both the primary and second battery.

This section contains instructions on the following:

- To handle and store the battery safely
- To maintain and preserve the battery life

To handle and store the battery safely

To safely use the battery, follow these instructions:

- To avoid risk of fire, burns, or damage to your battery pack, do not allow metal objects to touch the battery contacts.
- The battery pack is suitable for use only with compatible OmniBook models and specified battery charger. Check the *Support and Service* booklet for your local HP contact.
- Do not disassemble. There are no serviceable parts inside. Do not dispose of the battery pack in fire or water.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not expose the battery pack to high storage temperatures (above 60 °C, 140 °F).
- When the battery is not in use, store it in a battery pouch or other nonconductive case.
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.
- To obtain a replacement battery, contact your local dealer or HP sales office.
- Do not charge the battery pack if the ambient temperature exceeds 45 °C (113 °F).

To maintain and preserve battery life

To preserve the life of your battery, be sure to charge the battery regularly. In cases of 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.

- Do not leave batteries unused for long periods of time. If you have more than one, rotate them.
- If you use ac power, make a point of using the battery once a week to keep it fresh.
- Unplug your ac adapter when the computer is not in use.

2

Troubleshooting

Troubleshooting

If you run into problems installing your OmniBook accessories, you can use the suggestions in this chapter to correct the problems.

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

- If you have problems, see the problem-solving suggestions and references listed in the troubleshooting section of this manual, the OmniBook *Reference Guide,* and the online *User's Handbook.*
- Check with your computer system administrator, if you have one.
- Contact your dealer, or contact Hewlett-Packard—see the OmniBook *Support and Service* booklet or OmniBook Support in the online OmniBook Library.

Solving Problems with Plug-In Accessories

If your OmniBook accessory doesn't seem to work properly, find the symptom below that matches your situation. Try the suggestions one at a time.

For information about the latest software drivers, go to the HP OmniBook website at http://www.hp.com/omnibook.

This section separates problems into the following categories:

- ♦ Floppy disk drive problems.
- ♦ CD-ROM drive problems.
- ♦ Zip drive problems.
- ♦ DVD drive problems.
- ♦ Battery problems.

Floppy disk drive problems

If a floppy disk drive doesn't work

- Remove and reinsert the floppy disk.
- If connected externally, check the floppy disk drive cable connection.
- Try using an alternate connection (internal or external connection)
- Check to see that the floppy disk drive configuration is correct in the BIOS Setup utility. See the OmniBook *Reference Guide* for instructions on running the BIOS Setup utility.

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

- If connected externally, check the floppy disk drive cable connection.
- Try using an alternate connection (internal or external connection).
- Run the BIOS Setup utility make sure that the floppy disk drive is the first boot device. See the OmniBook *Reference Guide* for instructions on running the BIOS Setup utility.

CD-ROM drive problems

If the CD-ROM drive stops responding

- Remove and reinsert the CD.
- Reset the OmniBook.
- If resetting the OmniBook does not solve the problem, remove and reinsert the CD-ROM module.

If you cannot boot from a CD in the CD-ROM drive

- Check that the CD is bootable.
- Remove and reinsert the CD-ROM module.
- Reset the OmniBook.
- Run the BIOS Setup utility to make sure that the CD-ROM drive is the first boot device. See the OmniBook *Reference Guide* for instructions on running the BIOS Setup utility.

Zip drive problems

If a Zip drive doesn't work

- Remove and reinsert the Zip disk.
- Remove and reinsert the Zip module.
- Reset the OmniBook.
- If you are using Windows NT and are experiencing problems with your Zip drive, download and install the latest version of the Phoenix APM and Card Executive drivers. To obtain the self-extracting archive and more information, go to the HP OmniBook website at http://www.hp.com/omnibook.

DVD Drive Problems

If the DVD drive stops responding

- Remove and reinsert the DVD.

- Reset the OmniBook.

- If resetting the OmniBook does not solve the problem, remove and reinsert the DVD module.

Warning
If you have installed the hot-swap drivers on your hard disk drive and want to play a DVD movie, please follow these steps to avoid problems:

- Right-click the Hot-Swap icon on your Taskbar and select "About" to display the driver version.

- If the version displayed is 3.01.04 or earlier, you must download the most recent driver from the OmniBook website at http://www.hp.com/omnibook and install it. The latest hot-swap drivers will prevent potential conflicts with the DVD movie player software.

Battery problems

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

- The new battery pack may be low. Plug in the ac adapter.

- If nothing happens, press the blue power button for four seconds, then wait 10 seconds and press the power button again.

If the battery pack doesn't charge or stops charging

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

- Shut down the OmniBook and remove the battery, then check that the battery contacts are clean. Make sure 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 the battery runs down too fast

- If the operating time has gotten shorter and the battery pack is more than a year or two old, you may need a new battery.

If the OmniBook turns off immediately after it turns on

- Battery power is probably extremely low. Plug in the ac adapter, or turn off the OmniBook and insert a fresh battery.

If the OmniBook stops responding

- Try waiting a few minutes for a response. If after a few minutes there is no response, press CTRL+ALT+DEL to close the non-responding application.
- If nothing happens, press the blue power button for 4 seconds., After the computer turns off, press the power button again.
- Use a paper clip to depress the system off button of the back of the unit, then press the blue power button.

3

Specifications and Regulatory Information

Specifications and Regulatory Information

Your OmniBook accessories are designed to provide trouble-free operation. The following suggestions can help you while working with your OmniBook:

♦ 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 the 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 when you call for support.

Hardware Specifications and Safety

Floppy disk drive	Modular 3.5-inch 1.44-MB floppy disk drive with parallel cable (available separately) for internal or external use.
CD-ROM drive	Modular drive. Photo-CD and CD-plus multi-session specification compliant, multimedia PC-3 specification compliant, supports sampling and digital filter for CD audio, software and manual eject.
Zip drive	Modular 3.5-inch 100-MB Zip drive.
DVD drive	Modular DVD-ROM drive. Photo-CD and CD-Extra multi-session, and Video CD specification compliant. Plays CD audio, and reads CD-R, DVD-R, and CD-RW. Software and manual eject.
Battery	Battery life: up to 3 hours (varies with type of usage) for one battery; up to 6 hours with dual battery operation. Type: Lithium Ion
Environmental Limits	Operating temperature: 5 to 35 °C (41 to 95 °F), Operating humidity: 20 to 90 percent (5 to 35 °C). Storage temperature: –20 to 50 °C (–40 to 122 °F).

To use the CD-ROM and DVD drive safely

- If the unit requires service, contact an authorized HP service center—see the OmniBook *Support and Service* booklet.
- Do not attempt to make any adjustment to the unit.
- Avoid direct exposure to the laser beam—do not open the unit.

CLASS 1 LASER PRODUCT

LASER KLASSE 1

Regulatory Information

This section presents information that shows how the OmniBook plug-in modules comply with regulations in certain regions. Any modifications to the OmniBook or plug-in modules not expressly approved by Hewlett-Packard could void the authority to operate the OmniBook in these regions.

U.S.A.

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

- Reorienting or relocating the receiving antenna.
- Relocating the floppy disk drive with respect to the receiver.
- Connecting the OmniBook ac adapter to another power outlet.

Connections to Peripheral Devices

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

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

Declaration of Conformity

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

Trade name: Hewlett-Packard Company
Product name: F1384A floppy disk drive

Complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Canada

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

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

Japan

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

Europe

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

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

Manufacturer:	Hewlett-Packard Company
Address:	Hewlett-Packard Co.
	Mobile Computing Division
	19310 Pruneridge Ave.
	Cupertino, CA 95014
	declares that the following products
Product name:	HP F1384A internal/external floppy disk drive
Options:	All
	conforms to the following product specifications
Safety:	IEC 950:1991+A1,A2 / EN 60950 (1992)+A1,A2
EMC:	EN 50082-1:1992
	CISPR 22:1993 / EN 55022 (1994): Class B [1]
	IEC 801-2:1991 / prEN 55024-2 (1992): 4kV CD, 8kV AD
	IEC 801-3:1984 / prEN 55024-3 (1991): 3V/m
	IEC 801-4:1988 / prEN 55024-4 (1992): 0.5 kV signal lines, 1.0kV
	power lines
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE mark accordingly.
	The HP F1454A ac adapter used with this product is disconnected from the power by unplugging the power cord from the power outlet or from the ac adapter. Therefore, the power outlet should be located close to the product and be easily accessible.
	[1] The product was tested in a typical configuration with Hewlett-Packard personal computer peripherals.

Quality Department
Hewlett-Packard Company
Mobile Computing Division

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

Manufacturer:	Hewlett-Packard Company
Address:	Hewlett-Packard Co.
	Mobile Computing Division
	19310 Pruneridge Ave.
	Cupertino, CA 95014
	declares that the following products
Product name:	HP F1587A CD-ROM drive
Options:	All
	conforms to the following product specifications
Safety:	IEC 950:1991+A1,A2 / EN 60950 (1992)+A1,A2
	IEC 825/IEC 825-1 (EN60825/EN60825-1:1994):class1
EMC:	EN 50082-1:1992
	CISPR 22:1993 / EN 55022 (1994): Class B [1]
	IEC 801-2:1991 / prEN 55024-2 (1992): 4kV CD, 8kV AD
	IEC 801-3:1984 / prEN 55024-3 (1991): 3V/m
	IEC 801-4:1988 / prEN 55024-4 (1992): 0.5 kV signal lines, 1.0kV
	power lines
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC, the EMC Directive 89/336/EEC and IEC and 825-1:1993 and carries the CE mark accordingly.
	The HP F1454A ac adapter used with this product is disconnected from the power by unplugging the power cord from the power outlet or from the ac adapter. Therefore, the power outlet should be located close to the product and be easily accessible.
	[1] The product was tested in a typical configuration with Hewlett-Packard personal computer peripherals.

Quality Department
Hewlett-Packard Company
Mobile Computing Division

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

Manufacturer:	Hewlett-Packard Company
Address:	Hewlett-Packard Co.
	Mobile Computing Division
	19310 Pruneridge Ave.
	Cupertino, CA 95014
	declares that the following products
Product name:	HP F1388A Zip drive
Options:	All
	conforms to the following product specifications
Safety:	IEC 950:1991+A1,A2 / EN 60950 (1992)+A1,A2
EMC:	EN 50082-1:1992
	CISPR 22:1993 / EN 55022 (1994): Class B [1]
	IEC 801-2:1991 / prEN 55024-2 (1992): 4kV CD, 8kV AD
	IEC 801-3:1984 / prEN 55024-3 (1991): 3V/m
	IEC 801-4:1988 / prEN 55024-4 (1992): 0.5 kV signal lines, 1.0kV
	power lines
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE mark accordingly.
	The HP F1454A ac adapter used with this product is disconnected from the power by unplugging the power cord from the power outlet or from the ac adapter. Therefore, the power outlet should be located close to the product and be easily accessible.
	[1] The product was tested in a typical configuration with Hewlett-Packard personal computer peripherals.

Quality Department
Hewlett-Packard Company
Mobile Computing Division

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

Manufacturer:	Hewlett-Packard Company
Address:	Hewlett-Packard Co.
	Mobile Computing Division
	19310 Pruneridge Ave.
	Cupertino, CA 95014
	declares that the following products
Product name:	HP F1586A DVD drive
Options:	All
	conforms to the following product specifications
Safety:	IEC 950:1991+A1,A2 / EN 60950 (1992)+A1,A2
EMC:	EN 50082-1:1992
	CISPR 22:1993 / EN 55022 (1994): Class B [1]
	IEC 801-2:1991 / prEN 55024-2 (1992): 4kV CD, 8kV AD
	IEC 801-3:1984 / prEN 55024-3 (1991): 3V/m
	IEC 801-4:1988 / prEN 55024-4 (1992): 0.5 kV signal lines, 1.0kV
	power lines
Supplementary Information:	The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE mark accordingly.
	The HP F1454A ac adapter used with this product is disconnected from the power by unplugging the power cord from the power outlet or from the ac adapter. Therefore, the power outlet should be located close to the product and be easily accessible.
	[1] The product was tested in a typical configuration with Hewlett-Packard personal computer peripherals.

Quality Department
Hewlett-Packard Company
Mobile Computing Division