HP SureStore Optical 2600fx
Optical Disk Drive
User's Guide

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Publication History

New editions of this manual incorporate all material updated since the previous edition. The manual printing date and part number indicate its current edition. The printing date changes when a new edition is printed. (Minor corrections and updates incorporated at reprint do not cause this date to change.)

About This Guide

This user's guide includes:

Chapter 1   set-up information for the HP SureStore Optical 2600fx optical disk drive

Chapter 2   information about choosing and using optical disks

Chapter 3   front panel control description, operating instructions, and troubleshooting information

The Reference section includes:
  • optical disk library supplies
  • HP sales offices
  • safety and regulatory information
  • warranty information
  • service information

Glossary of Terms

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Typographical Conventions

The following typographical conventions are used in this guide.

Caution

Caution calls attention to an operating procedure or practice which could result in damage
to the product if not correctly performed. Do not proceed beyond this box until you fully
understand and meet the indicated conditions.

Note

A note calls attention to information which can be helpful in understanding the operation
of the product.

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1

**Setting up the
Optical Disk Drive**

Setting up the HP SureStore Optical 2600fx

This chapter discusses the environment, hardware and procedures that are necessary to connect a 2600fx optical disk drive to the host computer:

- preparing the environment
- understanding the rear panel
- setting up the optical disk drive address
- choosing the operation mode
- connecting the 2600fx drive to the host system
- preparing the host computer for use with the 2600fx
- troubleshooting

Preparing the Environment

The following environmental factors will help ensure top performance of your optical disk drive.

Clearance Requirements

A minimum of 70-80 mm (3 in.) is required behind the rear panel and in front of the optical disk drive for air circulation.

Location Requirements

Position the drive away from sources of particulate contamination such as frequently-used doors and walkways, printers, stacks of supplies that collect dust, and smoke-filled rooms.

Rear Panel Features

Identify the following rear panel features before you connect the
optical disk drive to the host system.
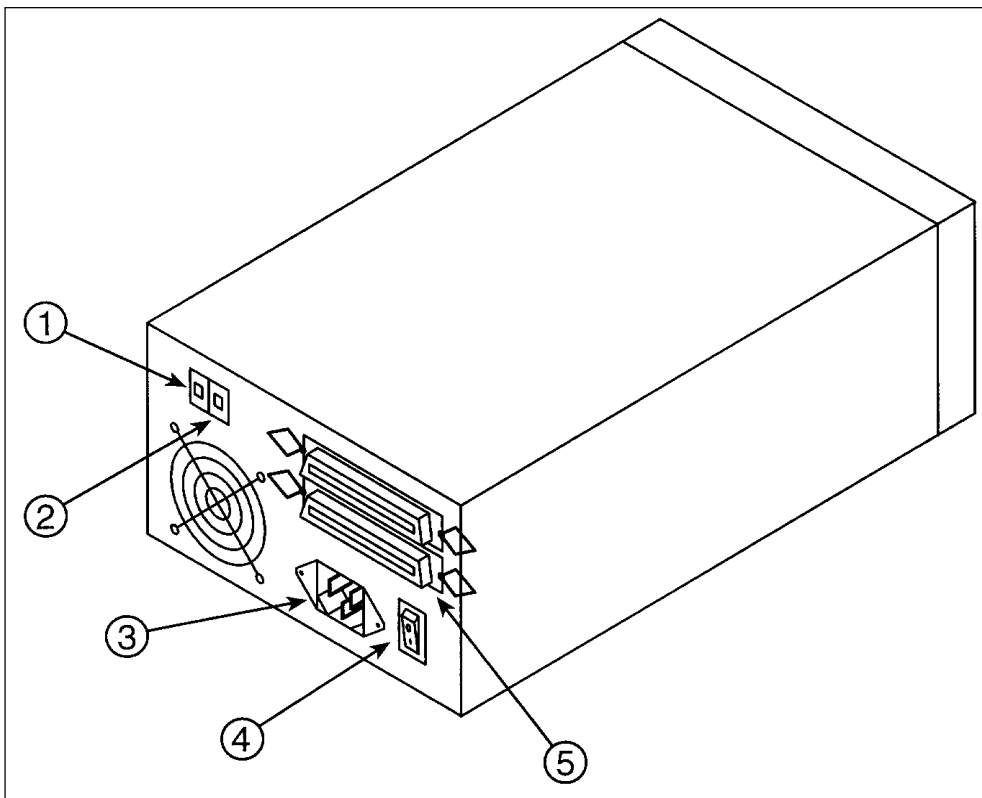
Figure 1-1: Rear Panel Features

The following numbers correspond to the numbers in the drawing on the previous page.

1	Operation mode switch	Used to choose the operating mode. Refer to "Setting the Operation Mode" in this section.
2	SCSI ID switch	Used to set the SCSI ID.
3	Power connector	Connection for power cord.
4	On/Off switch	Used to switch power on or off.
5	SCSI connectors	Two connectors that allow SCSI devices to be daisy-chained. If no other SCSI device exists on the chain after the optical drive, a terminator must be connected to the unused connector.

Setting the SCSI ID

Follow these steps to set the SCSI ID.

Caution

Before disconnecting power to any device on the SCSI bus, make sure the bus is inactive. Switching off power while the SCSI bus is active can result in data loss or indeterminate bus states.

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1. Make sure the power to the drive is switched off.

2. Locate the SCSI ID switch on the rear panel of the disk drive. Refer to Figure 1-1, "Rear Panel Features."

3. To set the SCSI ID, push the appropriate button with a small screwdriver or the point of a pen:
   - the button above the operation mode window decreases the number by one
   - the button below the operation mode window increases the number by one

---

Note

If you change the SCSI ID, you must power cycle the drive so that the host recognizes the new ID.

Setting the Operation Mode

The mode selection switch designates operating mode of the 2600fx:

- Select 0 to operate the optical disk drive as an optical memory device.
- Select 1 to operate the optical disk drive as a direct access device.

Hewlett-Packard recommends operating the optical disk drive as an optical memory device. The direct access mode can be used with systems that do not recognize optical memory devices.

To change the operation mode, push the appropriate button with a small screwdriver or the point of a pen:

- the button above the operation mode window decreases the number by one
- the button below the operation mode window increases the number by one

---

Note

If you change the operation mode, you must power cycle the drive so that the host recognizes the new mode.

Connecting to the Host Computer

When you are ready to connect the optical disk drive to your host computer, note the following cautions. Then complete the steps below.

Caution

Perform a full system backup prior to connecting the optical disk drive to the host computer for full data protection.

Verify that the bus is inactive before disconnecting power to any device on the SCSI bus. Shutting off any device while the SCSI bus is active can result in data loss or indeterminate bus states.

Remove inserted disks before moving the drive. Damage to the optical mechanism can occur if the drive is moved or bumped while the power is off and a disk is inserted.

---

1. Make sure the power is switched off on both the computer and the optical disk drive.

2. Connect a SCSI cable from the optical disk drive to the host or to the last peripheral which has been daisy-chained.

3. Connect a SCSI terminator to the last device in the chain.

Note

The length of the SCSI cable cannot exceed 6 meters, including the internal cable length of all peripherals on the SCSI bus. The optical disk drive internal cable length is 0.3 m.

---

4. Plug one end of the power cord into the AC line connector on the back of the optical disk drive and the other end into the power outlet.

5. Press the power switch on the rear of the optical disk drive so that it is in the "ON" position.

6. Switch on the power to the host computer.

Note

For some host computers to recognize the optical disk drive, the power to the disk drive must be switched on before the power to the host computer.

7. Install the drivers appropriate to your host system.

   If you are connecting the optical disk drive to an HP-UX® 10.0 host, refer to Appendix B for configuration information.

   If you purchased a software package for use with this optical drive, consult the software user's guide for information on how to install the drivers.

Troubleshooting

If you are having problems with the optical disk drive, check to make sure:

- the power cord connection is tight
- the SCSI cables are connected properly
- the power switch located on the rear panel is ON
- the software drivers are loaded properly

If the above actions do not solve the problem, contact a service representative. Refer to Appendix A for a list of Hewlett-Packard offices.

2

Using Optical Disks

Using Optical Disks

The optical disks that you use in the optical disk drive are an integral part of the storage process. This chapter provides information on the following:

- choosing an optical disk
- labeling an optical disk
- maintaining an optical disk
- write-protecting an optical disk

Note

For top performance and reliability, Hewlett-Packard recommends HP-labeled optical disks that have been fully tested for use with HP's optical products. Purchase these disks through any HP-authorized dealer, or order them through HP Direct. See "Supplies and Accessories", Appendix A, for ordering information.

Choosing Optical Disks

Optical disks are available in three capacities: 650 Mbytes, 1.3 Gbytes, and 2.6 Gbytes. The optical disk drive can read from and write to both 1.3 Gbyte disks and 2.6 Gbyte disks. The drive can read from, but not write to, 650 Mbyte disks. To receive maximum storage capacity, you should choose 2.6 Gbyte optical disks.

Two types of optical disks are available: rewritable disks and write-once disks. To choose which type of disk to use, consider these points:

- rewritable optical disks-- data can be repeatedly written and erased
- write-once optical disks--data can be written only once, and the data cannot be altered or erased. If you have a need for data security and audit trails, write-once disks may be your best disk choice.

Both rewritable and write-once disks come in two sector sizes: 1024 bytes/sector and 512 bytes/sector. The sector size you choose depends upon what type of operating system and software you are running on your computer. Refer to your computer system documentation or your optical driver software documentation to see which format is supported on your computer. The information is probably listed under optical disk sector size or optical disk format.

Note

Do not use write-once disks in a computer system that does not support write-once disks. Check your computer system reference manuals to determine the disk types that are supported.

Labeling Optical Disks

Make it a practice to label your optical disks. Adhesive labels are provided with each disk. You can use the following labeling suggestions:

- date of format or initialization
- disk owner (group/department, etc.)
- storage purpose (backup, old version of operating system, etc.)

Apply the label to the optical disk in an area that does not interfere with the movement of the metal shutter. On side A of an optical disk, the correct label position is just to the left of the metal shutter; on side B, it is just to the right of the metal shutter. See the figure below for proper label placement.

Caution

If a label is applied incorrectly, the optical disk may get caught in the drive.

.
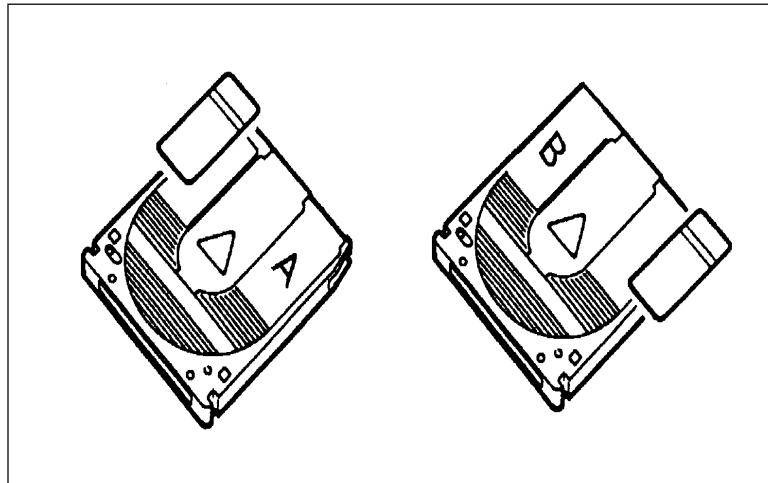
Figure 2-1: Proper Label Positions

Write-Protecting Optical Disks

Each side of an optical disk can be write-protected by sliding the write-protect button in the direction of the arrow on the disk.

With rewritable optical disks, the use of the write protect button ensures data safety for files that have been previously written to the disk and prevents any additional files being written to the disk.

With write-once optical disks, existing files cannot be altered or erased whether or not the write-protect button has been set. However, the use of the write-protect button will prevent any additional files being written to a disk.
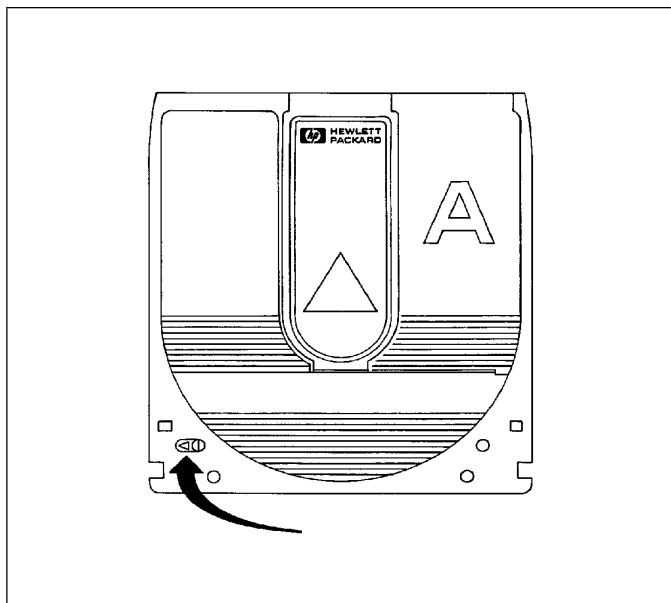
Figure 2-2: Write-Protect Button Location

Maintaining Optical Disks

Follow these guidelines to maintain your disk:

- Do not expose the disk to extreme magnetic fields.
- Do not expose the disk to dust particles.
- Do not expose the disk to extreme temperatures or extreme humidity.
- Do not drop the disk.
- Do not open the shutter and touch the disk surface.
- Do not take the disk cartridge apart.
- Do not clean the disk's surface.
- Do not insert disks with loosely attached labels into the drive.
- Remove the old label before applying a new one.
- Store the disk in a clean, safe place when it is not in use.

3

**Operating the
Optical Disk Drive**

Operating the Optical Disk Drive

This chapter explains the features used to operate the optical disk drive.
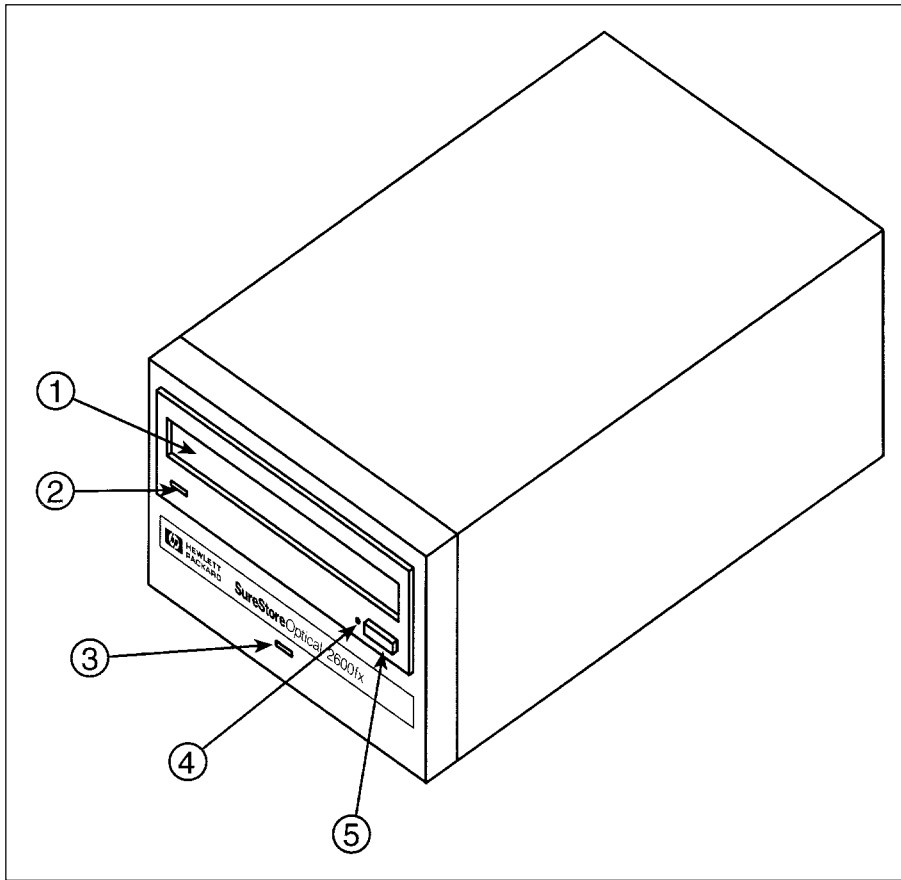
Figure 3-1: Front Panel Features

Identifying Front Panel Features

The following list of features corresponds to the numbers in Figure 3-1:

1	Disk slot	A slot for inserting optical disks
2	Activity indicator	Remains lit while the drive is loading or unloading a disk during the powerup selftest sequence, and any time the drive is being accessed.
3	Power indicator	Remains lit while the power is on
4	Eject tool opening	An access hole for the eject tool. In an emergency, such as a power outage, the disk can be manually ejected by inserting the eject tool into this opening. Read "Manually Ejecting Disks" on the next page.
5	Eject button	Pressed to eject the disk from the drive. The disk does not eject if a SCSI *Prevent/Allow Media Removal* command has been issued, or if power to the drive is off.

Manually Ejecting Disks

The optical disk drive does not automatically eject an optical disk if a power failure occurs. An eject tool is shipped with the optical disk drive to use for manually ejecting a disk.

Follow these steps to manually remove a disk from the optical drive:

1. Disconnect all power to the drive.

2. Insert the eject tool into the small round hole in the front panel of the drive, push the eject tool firmly, and the disk will eject.

Note

After ejecting a disk, the drive remains in "eject position" until power is restored. At that time, the drive automatically resets itself.

A

Supplies and Service

Service and Supplies

This section provides information on the following topics:
- supplies and accessories
- sales and service offices
- warranty and service information

Supplies and Accessories

A full range of computer supplies may be ordered through a Hewlett-Packard authorized dealer or sales office, or by phoning or writing HP Direct.

Call 800-752-0900 for the location of your nearest authorized Hewlett-Packard dealer.

To contact a Hewlett-Packard sales representative, see "HP Sales and Service Offices" in this section for a list of addresses and phone numbers of HP sales offices.

To phone HP Direct call 800-538-8787; to write to HP Direct use the following address:
    HP Direct
    Hewlett-Packard
    P.O. Box 58195
    Santa Clara, California 95052

The table on the following page lists basic supplies and parts, and indicates the supplier or the appropriate ordering method (if ordering inside the United States).

For customer direct ordering:
Customer Support Center   1-970-635-1000

If you wish to place an order from outside the United States, contact your local Hewlett-Packard sales office or your authorized dealer. A list of world-wide sales office locations is in this section.

Item	Part No.	Source
Optical Disk Cartridge (2.6-Gbyte) Rewritable (512 bytes/sector)	92279F	HP Direct
Optical Disk Cartridge (2.6-Gbyte) Rewritable (1,024 bytes/sector)	92280F	HP Direct
Optical Disk Cartridge (2.6-GByte) Write-Once (512 bytes/sector)	92289F	HP Direct
Optical Disk Cartridge (2.6-Gbyte) Write-Once (1,024 bytes/sector)	92290F	HP Direct
0.5 m (1.6 ft) SCSI peripheral interface cable for HP-UX workstations	92222A	HP Direct
1 m (3.3 ft) SCSI peripheral interface cable for HP-UX workstations	92222B	HP Direct
2 m (6.6 ft) SCSI peripheral interface cable for HP-UX workstations	92222C	HP Direct
1 m (3.3 ft) SCSI extender cable	92222D	HP Direct
Single-ended SCSI terminator	K2291	HP Direct

Warranty and Service Information

Hewlett-Packard and its dealers stand behind the HP product you have purchased. Your best source of support may be your Hewlett-Packard dealer or Hewlett-Packard, depending on how your equipment was purchased. Upgraded services beyond the warranty coverage must be purchased from your Hewlett-Packard dealer or Hewlett-Packard. Your warranty statement appears in this section. Please read it carefully and keep it for your records.

Assistance from your local dealer

If your optical drive was purchased from a Hewlett-Packard dealer (or an independent system house that sells Hewlett-Packard products), your dealer is the best source of assistance; they know you, your needs, and your configuration. Your dealer has access to special support resources and programs at Hewlett-Packard. Contact your dealer for details on available maintenance and technical support options.

Assistance from Hewlett-Packard

Hewlett-Packard Personal Computer Dealer Centers and the world-wide network of Hewlett-Packard Sales and Service Offices provide high-quality, professional hardware support. In addition, the following services are available to all customers who have Hewlett-Packard PC peripherals:

Facsimile Information Service:
To better serve our customers, Hewlett-Packard has established a 24-hour, 7-days a week online facsimile information system, HP FIRST (FAX Information Retrieval Support Technology). HP FIRST has the latest application notes and other information for your optical drive. This system also includes the latest

support information on current HP peripheral products. The available information includes:

- application notes
- product data sheets
- accessory information
- compatible software lists

To use HP FIRST:

- From your fax machine, dial (208) 344-4809.
- A recorded voice asks you to select the information for a particular product using the touchtone key pad of your FAX machine.
- When you have completed your selection, press the START key on your FAX machine and FAX transmission begins.

To get help from the Personal Peripherals Assist Line:

If your dealer cannot answer all your questions and the information is not available to you through HP FIRST, you can call the Hewlett-Packard Personal Peripheral Assist Line, (208) 323-2551. This service is available from 7 AM to 5 PM Mountain Standard Time on Mondays, Tuesdays, Thursdays, Fridays, and from 7 AM to 4 PM Wednesdays.

One-Year Limited Hardware Warranty

Hewlett-Packard warrants this peripheral/accessory against defects in materials and workmanship for a period of one year from receipt by the customer unless an alternate warranty coverage is selected by the customer. If Hewlett-Packard receives notice of such defects during the warranty period, Hewlett-Packard will, at its option, either repair or replace products which prove to be defective.

Should Hewlett-Packard be unable to repair or replace the product within a reasonable amount of time, the customer's alternate remedy shall be a refund of the purchase price upon return of the product to Hewlett-Packard.

This warranty gives the customer specific legal rights. Other rights, which vary from state to state or province to province, may be available.

Exclusions
The above warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation and maintenance.

Warranty Limitations
HEWLETT-PACKARD MAKES NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THIS PRODUCT. HEWLETT-PACKARD SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In any state or province which does not allow the foregoing disclaimer, any implied warranty of merchantability or fitness for a particular purpose imposed by law in those states or provinces is limited to the one-year duration of the written warranty.

Exclusive Remedies
THE REMEDIES PROVIDED HEREIN ARE THE CUSTOMER'S SOLE AND
EXCLUSIVE REMEDIES. IN NO EVENT SHALL HEWLETT-PACKARD BE
LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR
CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT,
TORT, OR ANY OTHER LEGAL THEORY.

In any state or province which does not allow the foregoing exclusion or
limitation of incidental or consequential damages, the customer may have other
remedies.

Obtaining service
To maintain the warranty, you must have your optical drive serviced by an
authorized repair depot in the country of original purchase. Return your optical
drive to a Hewlett-Packard Dealer Repair Center or a designated Hewlett-
Packard Repair Center. See the following pages for a list of designated Hewlett-
Packard Repair Centers .Contact your Hewlett-Packard Dealer Repair Center for
instructions before returning your optical drive for service. If you return your
optical drive to a designated Hewlett-Packard Field Repair Center for service,
you must prepay all shipping charges, duty, and taxes. Except for products
returned to the customer from another country, Hewlett-Packard will pay for
return shipment to the customer.

Before you send your optical drive to a Hewlett-Packard Dealer Repair Center or
a designated Hewlett-Packard Field Repair Center, insure the optical drive and
follow the re-packing guidelines below. Enclose a completed Service
Information Form (on the following page), a copy of proof of purchase. I

Service after the warranty period expires
If your optical drive fails after the warranty period, contact an authorized
Hewlett-Packard Dealer Repair Center or a designated Hewlett-Packard Repair
Center. If you have a Hewlett-Packard Maintenance Agreement, request service
under your agreement.

Repacking guidelines for returning your optical drive
  • Remove the optical disk.
  • Use the original shipping container and packing materials, if possible.
  • Enclose the completed Service Information Form (included in this section).

Service Information Form

When requesting service, please complete this form for the HP Field Repair Center or an authorized HP Dealer Repair Center.

This form must be shipped with your equipment. Service cannot begin until we have this information. Be sure you have followed the repacking guidelines listed earlier in this section of the manual.

Who is returning this equipment?

Company/Institution_____

Date _____

Person to Contact_____Phone _____

Alternate Contact _____Phone_____

What is being sent?

Model Number_____ Serial Number _____

Have you included an optical disk? Yes_____ No _____

Returning Shipping Address:

_____

_____

How will you pay for the repairs?
Except for contract and warranty services, a credit card number or purchase order number and authorized signature must accompany any request for service. Standard repair prices may be obtained by contacting a Repair Center.

Warranty: purchased/received date _____
(Enclose proof of purchase or receiving document indicating original received date.)

Maintenance Contract: number _____

_____ VISA_____ MASTER CARD

Credit Card Number _____

Expiration Date _____

Signature _____ Date _____

Purchase order number:_____

Billing Address:

_____

_____

Authorized Signature: _____

Phone _____

What needs to be done?

Describe the conditions at the time of failure. (What were you doing when the failure occurred? What software were you running? Is the failure repeatable?)

_____
_____
_____
_____

Additional comments:

_____
_____
_____
_____
Thank you.

Hewlett-Packard Service Centers

Hewlett-Packard Service in the U.S.

Before shipping the optical disk drive for service, call the Customer Support Center at (970) 635-1000.

After contacting the Customer Support Center and repackaging your optical disk drive, ship the drive to the following address:

Hewlett-Packard Company
Corvallis Service Center
1060 N. E. Circle Blvd.
Corvallis, Oregon 97330

(503) 757-2000

Hewlett-Packard Service Worldwide

Hewlett-Packard products are sold and supported worldwide through Hewlett-Packard Sales and Service Offices and through dealers. There are more than 240 Hewlett-Packard Sales and Service Offices worldwide.

For information about where to have your optical drive serviced, call one of the following European Customer Support Center numbers first. Hewlett-Packard regional offices are listed in the table, "HP Sales and Service Offices" on the next page.

European Customer Support Center   (+31) 20 682 26 28 (English)
                                                      (+31) 20 681 78 10 (German)
                                                      (+31) 20 681 77 50 (French)

HP Sales and Service Offices

Country	Address	Telephone
United States Hewlett-Packard (Eastern)	4 Choke Cherry Road Rockville, MD 20850	(301) 670-4300
Hewlett-Packard (Midwest)	5201 Tollview Drive Rolling Meadows, IL 60008	(708) 255-9800
Hewlett-Packard (Western)	5161 Lankershim Blvd. North Hollywood, CA 91601	(818) 505-5600
Hewlett-Packard (Southern)	2015 South Park Place Atlanta, GA 30339	(404) 955-1500
Canada Hewlett-Packard Ltd.	6877 Goreway Drive, Mississauga, Ontario L4V 1MB	(416) 678-9430
Europe Hewlett-Packard S.A.	150, route du Nant d'Avril, 1217 Meyrin 2, Geneva, Switzerland	(41/22) 780-8111
Australia Hewlett-Packard Australia Ltd.	31-41 Joseph Street Blackburn, Victoria 3130	(61/3) 272-2895
Japan Yokogawa Hewlett-Packard Ltd.	3-29-21 Takaido-Higashi Suginami-ku, Tokyo 168 Japan	(81/33) 331-6111
Far East Hewlett-Packard Asia- Pacific Ltd.	22nd Floor, EIE Tower Bond Centre, 89 Queensway, Central, Hong Kong	(852/5) 848-7777

Country	Address	Telephone
Latin America Hewlett-Packard Mexico, S.A. S. A. de C.V.	Monte Pelvoux No. 111 Fracc. Lomas de Virreyes 11000 Distrito Federal, Mexico	(52/5) 326-4000

B

Configuring to HP-UX 10.0

Configuring to an HP-UX 10.0 Host

Obtaining HP-UX Patches

Your HP-UX system may require software patches to ensure that the 2600fx will install and operate correctly with your system..

If you have access to the World Wide Web, do the following steps:

1. Browse the following URL on the World Wide Web to determine and record which (if any) patches are required for your system:

   http://www.hp.com/go/optical

2. Download the required patch IDs from the following URL:

   http://us.external.hp.com/patches/html/ptc_get.html

If you do not have access to the World Wide Web, do the following steps:

1. To obtain the current list of patches needed for Hewlett-Packard optical products, send email to:

   ssdg_tech_sup@hpgrla.gr.hp.com
   Subject: (none)
   Text: (none)

2. To receive instructions for downloading required HP-UX patches via email, send an email message to:

   support@support.mayfield.hp.com
   Subject: (none)
   Text: send guide.txt

3. Download the patches via email from the HP Support Line HP-UX email patch server using the simple instructions in the user's guide received in response to the email request in Step 2.

Configuring the Model 2600fx

Use the System Administration Manager (SAM) to configure the 2600fx to an HP-UX 10.0 host system:

1. Log into your host system as superuser, then type `sam`.

2. Highlight and select *Disks and File Systems*.

3. Highlight and select *Disk Devices*.

4. Highlight the optical disk drive. (SAM calls it a "SCSI Optical Disk Drive".)

5. Choose *Add...* and *Not Using Logic Volume Manager* from the "Actions" menu.

Your HP-UX system configuration now includes the optical disk drive.

C

Safety and Regulatory

Safety and Regulatory Information

This section contains important safety and regulatory information for the United States, United Kingdom, Finland, Germany, and Japan.

FCC Radio Frequency Interference Statement (USA Only)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Hewlett-Packard's certification tests were conducted with HP shielded cables. Cables used with this device must be properly shielded to comply with the requirements of the FCC. Changes or modifications not expressly approved by Hewlett-Packard could void the user's authority to operate the equipment.

Manufacturer's Declaration
Sound Emission

This statement is provided to comply with the requirements of the German Sound Emission Directive, from 18 January 1991.

- sound pressure Lp of > 70 dB(A)
- at operator position
- normal operation
- according to ISO 7779:1988/EN 27779:1991 (type test)

Herstellerbescheinigung

Diese Information steht im Zusammenhang mit den Anforderungen der Maschinenlärm information sverordnung vom 18 Januar 1991.

- Schalldruckpegel Lp of > 70 dB(A)
- Am Arbeitsplatz
- Normaler Betrieb
- Nach ISO 7779:1988/EN 27779:1991 (Typprüfung.

European Declaration of Conformity

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name: Hewlett-Packard Co.

Manufacturer's Address: Storage Systems Operation
700 71st Avenue
Greeley, CO 80634
USA

declares, that the product

> **Product Name:**   Optical Disk Library
>
> **Model Numbers:**   C1114x, where x is any alpha character (all w or w/o suffixes)
>
> **Product Options:**   All options

conforms to the following Product Specifications:

> **Safety:**   EN 60950 (1992) +A1 +A2 / IEC 950 (1991) +A1 +A2
> EN 60825 (1991) / IEC 825 (1984) +A1, Laser Class 1
>
> **EMC:**   EN 55022 (1994) / CISPR-22 (1993), Class B
> EN 50082-1 (1992)
> prEN 55024-2 (1992) / IEC 801-2 (1991), 4 kV CD, 8 kV AD
> prEN 55024-3 (1991) / IEC 801-3 (1984), 3 V/m
> prEN 55024-4 (1992) / IEC 801-4 (1988), 1 kV Peak Power lines, 0,5 kV signal
>   lines
> EN 61000-3-2 (1995) / IEC 1000-3-2 (1995), harmonic current emissions
> EN 61000-3-3 (1995) / IEC 1000-3-3 (1994), flicker

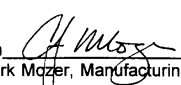**Supplementary Information:**

> The product herewith complies with the requirements of the Low Voltage Directive
> 73/23/EEC and the EMC Directive 89/336/EEC.
> These products conform when tested with Hewlett-Packard systems.
> Additional suffixes may be used to indicate variations in color or firmware.

Greeley, CO   16 February 1996   Storage Systems Operation
                                                          Clark Mozer, Manufacturing Manager

European Contact: Your local Hewlett-Packard   Sales and Service Office or Hewlett-Packard   GmbH, Department   TRE, Herrenberger   Straße
130, D-71304 Böblingen   (FAX: +49-7031-143143)

Turvallisuusyhteenveto

Laserturvallisuus

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

HP Model 2600fx-levymuistiasema on käyttäjän kannalta turvallinen luokan 1 laserlaite. Normaalissa käytössä levymuistiaseman kotelointi estää lasersäteen pääsyn laitteen ulkopuolelle.

Laitteen turvallisuusluokka on määritetty standardin EN 60825 mukaisesti.

VAROITUS !

Laitteen käyttäminen muulla kuin käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle lasersäteilylle.

VARNING !

Om apparaten används på annat sätt än i bruksanvisning specificerats, kan användaren utsättas för laserstrålning, som överskrider gränsen för laserklass 1.

Huolto

HP Model 2600fx-levymuistiaseman sisällä ei ole käyttäjän huollettavissa olevia kohteita. Laitteen saa avata ja huoltaa ainoastaan sen huoltamiseen koulutettu henkilö. Levymuistiaseman sisälle asennetun luku-/kirjoitusyksikön suojakoteloa ei tule avata huoltotoimenpiteiden yhteydessä.

VARO !

Mikäli luku-/kirjoitusyksikön suojakotelo avataan ja suojalukitus ohitetaan, olet alttiina lasersäteilylle laitteen ollessa toiminnassa. Älä katso säteeseen.

VARNING !

Om skyddshöljet av den optiska drivmodulen öppnas och spärren urkopplas då apparaten är i funktion, utsättas användaren för laserstrålning. Betrakta ej strålen.

Tiedot luku-/kirjoitusyksikössä käytettävän laserdiodin säteilyominaisuuksista:

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Aallonpituus              680 nm
Teho                       15 mW
Turvallisuusluokka          3B
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English Translation of Finland Regulatory Information

LASER SAFETY SUMMARY

LASER SAFETY

CLASS 1 LASER PRODUCT (The same in Swedish.)

The HP Model 2600fx optical disk drive is for user safe class 1 laser product. In normal use the enclosure of the optical drive prevents the laser beam from escaping outside of the product.

The safety class of the product was defined according to the standard EN 60825.

WARNING !

The use of the product otherwise than specified in the user's manual may expose the user to laser radiation exceeding safety class 1.

(The same warning in Swedish.)

SERVICE

There are no user serviceable parts inside the optical disk drive. The optical disk drive can be serviced only by qualified service personnel. The optical drive mechanism shall not be opened or disassembled during service.

WARNING !

If the enclosure of the optical drive mechanism is opened and the safety interlock disabled, you may be exposed to the laser radiation when the drive is operating. Avoid exposure to the beam.

(The same warning in Swedish.)

The information about the radiation characteristics of the laser diode used in the optical drive mechanism:

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Wavelength 680 nm
Power 15 mW
Class 3B laser
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United Kingdom Telecommunications Act 1984

The Hewlett-Packard 2600fx optical disk drive is approved under Approval Number NS/G/1234/J/100003 for indirect connection to Public Telecommunication Systems within the United Kingdom.

Japanese VCCI Statement

この装置は，第二種情報装置（住宅地域又はその隣接した地域において使用
されるべき情報装置）で住宅地域での電波障害防止を目的とした情報処理装置
等電波障害自主規制協議会（VCCI）基準に適合しております。

しかし，本装置をラジオ，テレビジョン受信機に近接してご使用になると，
受信障害の原因となることがあります。

取扱説明書に従って正しい取り扱いをして下さい。

English Translation of Japanese VCCI Statement

This equipment is in the 2nd Class category (information technology equipment
to be used in a residential area or an adjacent area thereto) and conforms to the
standards set by the Voluntary Control Council For Interference by Information
Technology Equipment aimed at preventing radio interference in such
residential area. When used near a radio or TV receiver, it may become the cause
of radio interference.

Read the instructions for correct handling.

Glossary

Glossary

continuous composite
A format that describes the physical, optical, and data format characteristics of a disk that complies with ISO DP 10089-2A.

daisy chain
A method of connecting devices in a serial manner which typically starts from the host. The last device in the chain must be terminated.

device file
The file associated with an I/O device. Device files are read and written just like ordinary files, but requests to read or write result in activation of the associated device.

disk
See *optical disk*.

front panel
The part of the optical drive that includes a power indicator light, function indicator lights, an eject button, and a place to insert and remove disks.

magneto-optical (MO)
A type of optical technology which uses a laser to read from and write to a magnetic layer on an MO disk. To write, a spot on the magnetic layer is heated by a laser to a point where it can be magnetically altered by the write magnetic head. To read, the light from the laser is reflected from the spot. The magnetic alteration causes the light to be polarized in one direction (interpreted as a "1") or the opposite direction (interpreted as a "0").

multifunction drive
An optical disk drive that supports both rewritable and write-once optical disks. The drive detects the disk type by reading a factory-stamped code on the disk.

optical disk
A term synonymous with 5.25-inch magneto-optical disk. There are two types of optical disks: rewritable and write-once.

read/write head
A part of the disk drive assembly that uses a laser and a magnet to read and write data on the MO disk.

rear panel
The part of the optical drive that provides SCSI address selection buttons, SCSI and power connections, mode selection switch, on/off switch, and safety, part number and serial number labels.

rewritable optical
An optical disk technology in which data can be repeatedly written and erased using magneto-optical reading and writing technology.

SCSI
An acronym for the Small Computer Systems Interface.

terminator
A resistor array device used for terminating a SCSI bus. A SCSI bus must be terminated at its two physical ends. A peripheral device uses a terminator only if it is at the end of the bus.

write-once optical
An optical disk technology available on multifunction drives. When a write-once disk is inserted, the drive will write data, but will not write over data that has been previously written.

write-protect
A method of preventing data from being written to a disk. A write-protect tab is located on both sides of the optical disk cartridge to enable write-protection on one or both surfaces of the disk.

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