

ISA/EISA version



Installing HP ScanJet IIp and HP ScanJet IIcx Scanners



HP Computer Museum
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Installation Guide



HP ScanJet Iip and ScanJet Iicx Scanners (ISA/EISA Computer Version)

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- relocate the computer with respect to the receiver
- plug the computer into a different outlet so that computer and receiver are on different branch circuits
- Consult the dealer or an experienced radio/TV technician for help.

Guide To Installing Your HP ScanJet Scanner

This manual contains all of the information you will need to install your HP ScanJet IIp or HP ScanJet IIcx scanner. Information on using the DeskScan II software is included in the *HP DeskScan II User's Guide* and in the on-line help that can be accessed from the DeskScan II software.

| What Is It? | What Does It Do? | Who Is It For? |
|--------------------|---|---|
| Chapter 1 | Explains how to unpack and unlock the scanner. | Everyone |
| Chapter 2 | Explains how to install the software and HP interface card and hook up the scanner. | Everyone |
| Chapter 3 | Gives basic troubleshooting instructions and explains how to get help if necessary. | Anyone who has problems with their installation. |
| Appendix A | Explains how to connect your scanner to an existing ASPI compliant SCSI interface card. | Anyone who will be connecting their scanner to an existing SCSI interface card and needs to know how to set up a SCSI device chain. |
| Appendix B | Gives a parts listing for major scanner parts. | Anyone who needs to purchase spare parts |
| Appendix C | Gives specifications and standards declarations for the scanners. | Anyone who needs to know which standards the scanner complies with. |

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Glossary

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How to unpack and unlock your Hewlett-Packard scanner.

Setup

Your Hewlett-Packard Scanner

Your Hewlett-Packard scanner is easy to set up and operate. The HP ScanJet IIP scanner is a small, lightweight, and versatile scanner which captures black and white drawings and photographs. The HP ScanJet IICx also captures color images and photographs. Both scanners can scan text into editable format from the copyboard or the optional automatic document feeder if you have optical character recognition software. The HP ScanJet IICx can also scan transparencies from the optional transparency adapter.

Minimum System requirements

Your computer system (ISA or EISA) must have at least:

- 2 megabytes of RAM
- 4 megabytes available disk space for installation
- a Microsoft Windows compatible pointing device
- a VGA monitor
- DOS 3.3
- Microsoft Windows 3.0 or 3.1 running in standard or enhanced mode.
- one available expansion card slot or an ASPI (Advanced SCSI Protocol Interface) or CAM (Common Access Method) compliant SCSI card in your computer

If you don't know whether or not your system contains an ASPI or CAM card, go ahead and start your installation. The Setup program will check your system for ASPI and CAM cards and notify you if it finds one.

Step 1. Unpack Your Scanner

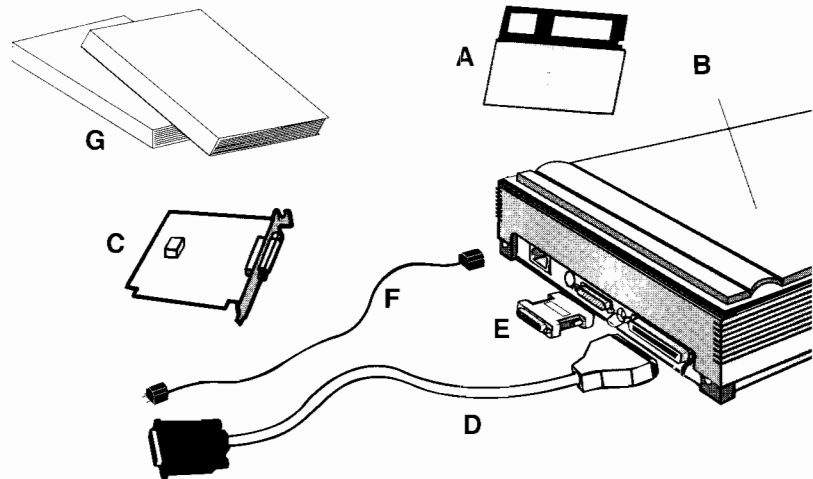
- 1 Remove all packaging materials from the scanner.
- 2 Check for damage while unpacking the scanner and the interface kit boxes. If you notice any damage, notify the dealer or the HP sales office where you purchased your scanner.

⚠ WARNING

To avoid electrical shock, do not remove the copyboard glass for any reason. If the glass breaks, unplug the scanner power cord immediately.

- 3 Save all shipping and packaging materials in case you want to transport the scanner in the future.

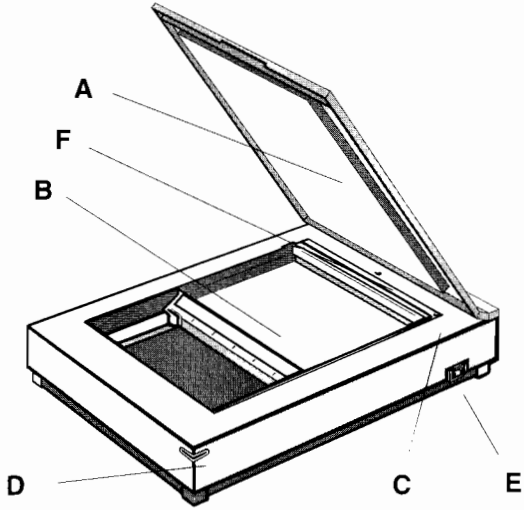
You should find the following items in the scanner box:



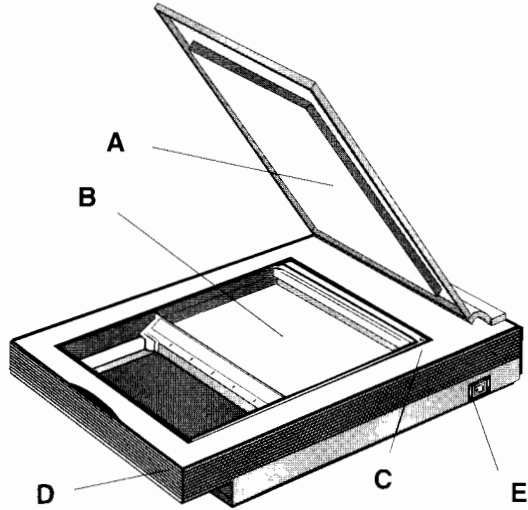
- A software disks
- B ScanJet IIp or ScanJet IIcx scanner
- C HP interface card
- D interface cable
- E terminator
- F power cord
- G documentation

Setup
Step 1. Unpack Your Scanner

While unpacking your scanner, you should become familiar with the parts shown below:

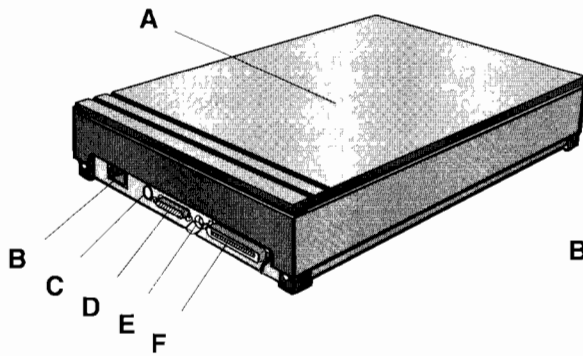


HP ScanJet IIP Scanner, Front View

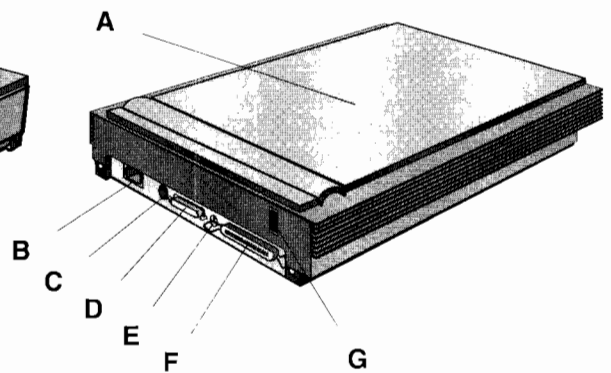


HP ScanJet IICx Scanner, Front View

- A** copyboard cover
- B** copyboard glass
- C** document setmark
- D** power indicator
- E** power switch
- F** locking screw (ScanJet IIP only)



HP ScanJet IIp Scanner, Rear View



HP ScanJet IIcx Scanner, Rear View

- A copyboard cover
- B power receptacle
- C ADF/ACC connector
- D 25-pin SCSI connector
- E SCSI address indicator
- F 50-pin SCSI connector
- G locking switch (ScanJet IIcx only)

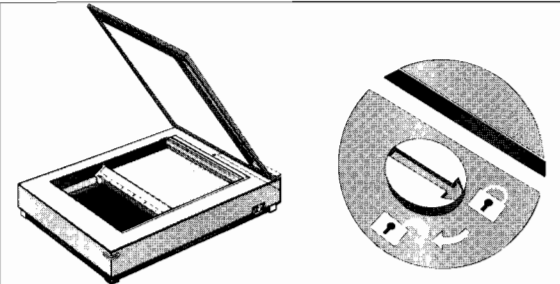
Choosing the right environment for your scanner

- Use your scanner only within normal office temperature and humidity ranges. Avoid locations where a quick change in temperature might cause condensation inside the scanner.
- Keep the scanner out of direct sunlight.
- Install the scanner in locations free from constant vibrations.
- Place the scanner on a flat, even surface.

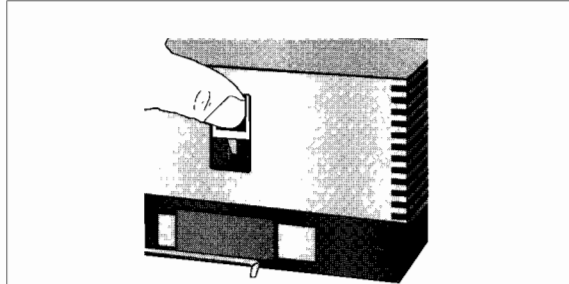
Setup
Step 2. Unlock Your Scanner

Step 2. Unlock Your Scanner

A locking mechanism secures and protects the internal mirror assembly during shipment. It must be unlocked before you can use the scanner.



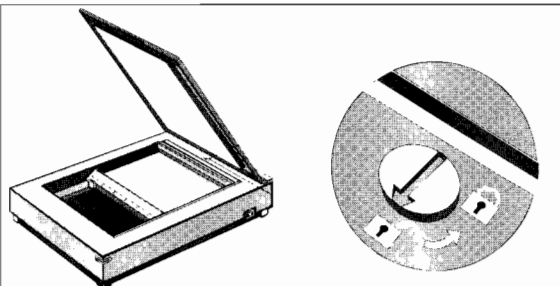
To unlock the HP ScanJet IIP scanner, open the copyboard cover and use a coin to turn the locking screw 90 degrees clockwise.



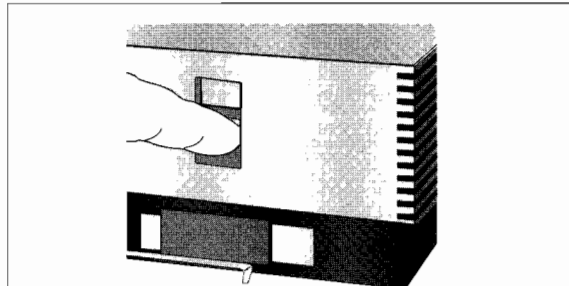
To unlock the HP ScanJet IIcx scanner, find the lock on the back of the the scanner and pull up.

Remember to lock your scanner whenever you move it

Be sure the scanner light bar is in the home position before you lock the scanner. To return the light bar to the home position, turn the scanner on, wait until the lamp in the light bar is off, and then turn the scanner off.



To lock the HP ScanJet IIP scanner, open the copyboard cover and use a coin to turn the locking screw 90 degrees counter-clockwise.



To lock the HP ScanJet IIcx scanner, push the lock down.

How to install the scanner software and interface, and connect the scanner to your computer.

Installation

Step 1. Run Setup

- 1 Make sure you have Microsoft Windows 3.0 or 3.1 installed on your system.
- 2 Make sure that Microsoft Windows is running.
- 3 Switch to the Windows Program Manager.
- 4 Choose *R*un from the *F*ile menu.
- 5 Insert the DeskScan II disk into the appropriate floppy disk drive.
- 6 In the Command Line box, type **A:SETUP** (or **B:SETUP** if you are installing from floppy disk B).
- 7 Click *OK* or press *Enter*.
- 8 Follow the instructions that appear on the screen. You can click *H*elp in any screen for additional information.

If you are given the option to use an ASPI or CAM card

If you are unfamiliar with SCSI (Small Computer System Interface), ASPI (Advanced SCSI Protocol Interface), or CAM (Common Access Method) you should install the HP interface card that came with your scanner.

Connecting the scanner to an existing ASPI or CAM card can save you an accessory card slot. If you have no accessory card slots available, but have an existing ASPI or CAM card, you can connect your scanner to this card.

To install the HP card, please continue in this chapter.

To connect your scanner to an existing ASPI or CAM card, please go to appendix A.

If you see a warning message while installing the DeskScan II software, please see the "Troubleshooting" section in this manual (chapter 3) for additional details on what you need to do.

Be sure to look at the README file that appears after the software installation is complete. The README file contains information about installation and the DeskScan II software that was not available when this manual was printed.



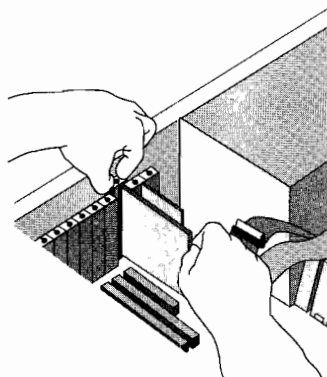
Step 2. Install the HP Interface Card

- 1 Refer to the documentation that came with your computer system for instructions on safely opening your computer.**
- 2** Switch your computer system off and disconnect it from electrical power.
- 3** Open your computer so that the accessory card slots are visible. Refer to the documentation that came with your computer system for instructions on safely opening your computer.
- 4** Choose an empty card slot. The computer may have two or three sizes of card slots. If possible, install the interface card in one of the shortest slots.
- 5** Remove the slot cover from the back of your computer by removing the screw which holds the slot cover in place.
- 6** Remove the interface card from its anti-static pouch.

The adapter is sensitive to static electricity. When removing the adapter from the anti-static bag, hold it by the metal support bracket.

Step 2. Install the HP Interface Card

- 7 Position the adapter as shown in the figure below and insert the adapter firmly into the card slot until you feel it snap into place.

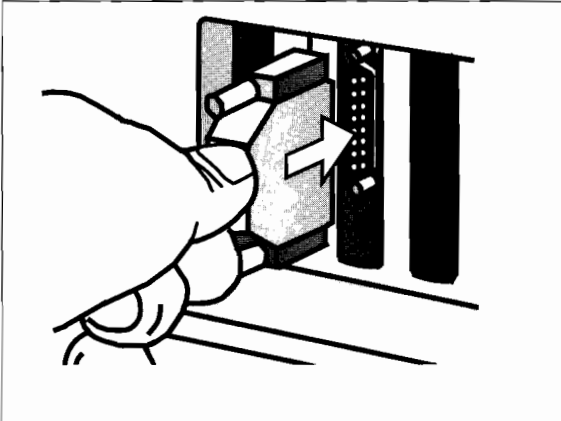


- 8 Replace the slot cover screw to secure the support bracket of the interface card to the back panel of the computer.
- 9 Close the computer.
- 10 Reconnect the power cord.

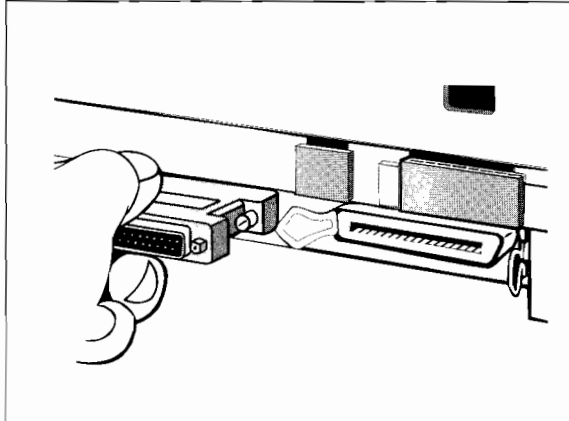
Installation
Step 3. Connect Your Scanner

Step 3. Connect Your Scanner

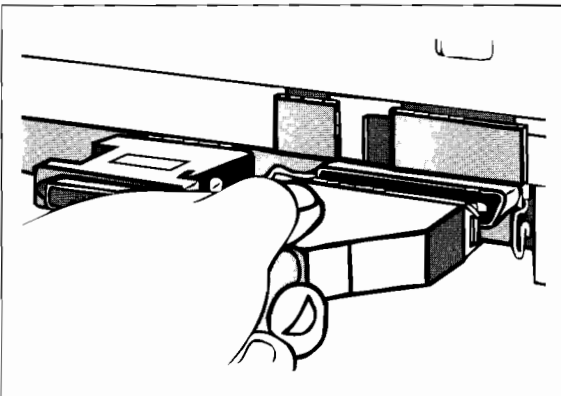
Use this procedure only if you are connecting the scanner to the HP interface card provided with the scanner. If you are connecting the scanner to an existing ASPI or CAM card, please go to appendix A.



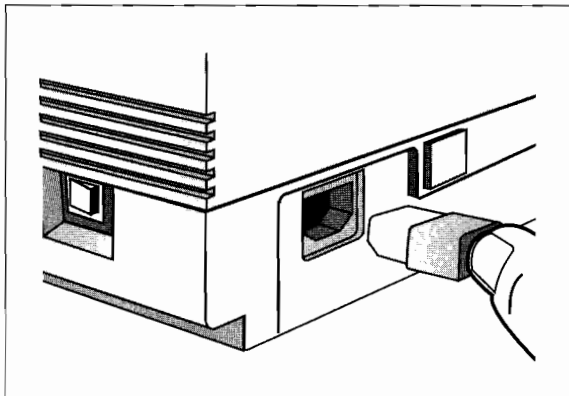
1 Attach the small end of the interface cable to the connector on the HP interface card you just installed.



2 Attach the terminator to the 25-pin connector on the back of the scanner.



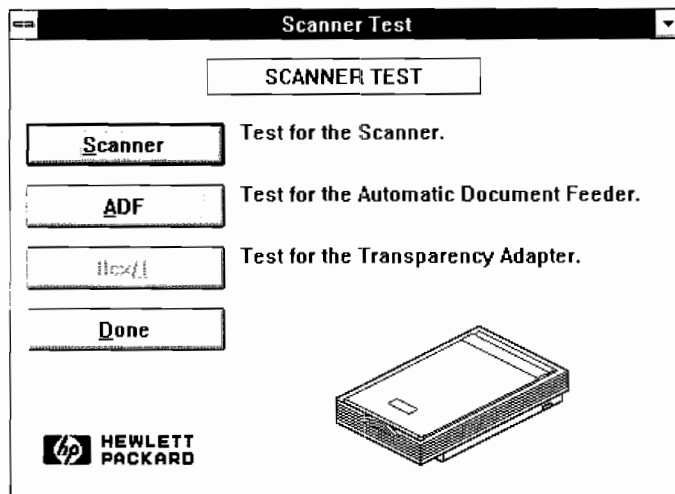
3 Attach the large end of the interface cable to the 50-pin connector on the back of the scanner.



4 Attach the power cord to the scanner and plug the power cord into an electrical outlet.

Step 4. Test Your Installation

- 1 Make sure that your scanner is unlocked (see chapter 1).
- 2 Turn on your scanner.
- 3 Turn on your computer.
- 4 Start Microsoft Windows.
- 5 Double-click the DeskScan II icon.
- 6 Choose *Scanner Test* from the DeskScan II *Help* menu.



- 7 Click *OK*.
- 8 If the scanner passes its self test, place something on the scanner bed and click *Preview* to do a Preview scan.

You are done with installation! Have fun with your new scanner. Your *HP DeskScan II User's Guide* can tell you more about how to use the software you just installed.

If you receive an error message, follow directions in the message and refer to the "Troubleshooting" section of this manual (chapter 3).

Special Situations

If you want to use the HP interface card to control additional equipment.

The HP interface card provided with the scanner is a CAM (Common Access Method) compliant SCSI card. However, it has not been designed and tested for use with any equipment other than a single HP scanner. *HP does not support the use of this card with SCSI devices other than HP scanners.*

Manually installing the scanner driver

This procedure is included mainly to show you what the automatic installation is doing.

Change the path references below appropriately if the DeskScan II program was not installed in C:\DESKSCAN.

- 1 Put the DeskScan II disk into an appropriate drive.
- 2 Switch to the drive with the DeskScan II disk.
- 3 Expand the MINI400I.SY_ and SJIIX.SY_ files on the DeskScan II disk into your DeskScan II program directory as MINI400I.SYS and SJIIX.SYS.

```
EXPAND MINI400I.SY_ C:\DESKSCAN\MINI400I.SYS  
EXPAND SJIIX.SY_ C:\DESKSCAN\SJIIX.SYS
```
- 4 Save the CONFIG.SYS file in the root directory of your boot drive (usually C:\) as CONFIG.OLD.

- 5 Using the NotePad application or the SysEdit application that comes with Windows, open the CONFIG.SYS file in the root directory of your boot drive (usually C:) for editing.

If you are using the HP interface card supplied with the scanner you should add the following two lines to the end of the file:

```
DEVICE=C:\DESKSCAN\MINI400I.SYS  
DEVICE=C:\DESKSCAN\SJIIX.SYS
```

If you are using an existing ASPI or CAM card to connect your scanner you should add the following single line to the end of the file:

```
DEVICE=C:\DESKSCAN\SJIIX.SYS
```

You can set the card to use interrupt line 2, 3, 4, 5, or 7 if any of these are free in your system. To do this, add /INT=# (where # is the interrupt number) to the SJIIX.SYS driver command line.

For example:

```
DEVICE=C:\DESKSCAN\SJIIX.SYS /INT=5
```

Use of an interrupt line for this card may improve its performance. The default installation does not set this switch (no interrupts are used).

- 6 Save your CONFIG.SYS file.
- 7 Follow the instructions for installing the interface card or adapter.

Manually installing the Windows Virtual Device Drivers.

If you are using the HP interface card you can also install virtual device drivers into Windows that will help speed up the scanning through this card. These drivers are automatically installed if you are installing the HP interface card and you let Setup modify your SYSTEM.INI file. The Windows device drivers are not compatible with cards other than the HP interface card shipped with your scanner.

Change the path references below appropriately if the DeskScan II program was not installed in C:\DESKSCAN.

- 1 Put the DeskScan II disk into an appropriate drive.
- 2 Switch to the drive with the DeskScan II disk.
- 3 If you are using Windows 3.0, expand the WIN400I.38_ and HPSCANR.38_ files into the DeskScan II program directory on your hard disk as WIN400I.386 and HPSCANR.386.

```
EXPAND WIN400I.38_ C:\DESKSCAN\WIN400I.386
```

```
EXPAND HPSCANR.38_ C:\DESKSCAN\HPSCANR.386
```

If you are using Windows 3.1, expand the WIN400I.386 and HPSCANR.386 files into the DeskScan II program directory on your hard disk.

```
EXPAND WIN400I.386 C:\DESKSCAN\WIN400I.386
```

```
EXPAND HPSCANR.386 C:\DESKSCAN\HPSCANR.386
```

- 4 Save the SYSTEM.INI file in your Windows directory as SYSTEM.OLD.
- 5 Using the NotePad application or the SysEdit application that comes with Windows, open the SYSTEM.INI file in your Windows directory (usually C:\WINDOWS) for editing.

- 6 If you are using Windows 3.0, add the following lines to the [386ENH] section of the SYSTEM.INI file:

```
DEVICE=C:\DESKSCAN\WIN400OI.386
```

```
DEVICE=C:\DESKSCAN\HPSCANR.386
```

- If you are using Windows 3.1, add the following lines to the [386ENH] section of the SYSTEM.INI file:

```
DEVICE=C:\DESKSCAN\WIN400I.386
```

```
DEVICE=C:\DESKSCAN\HPSCANR.386
```

- 7 Save the SYSTEM.INI file.
8 Exit and restart Windows.

If you are installing on a system with Windows NT

If you are installing a scanner on a system with Windows NT you will need to consult the README file for specific information on how to properly install the software and connect the scanner.

If you are installing on a system with OS/2

If you are installing a scanner on a system with OS/2 you will need to consult the README file for specific information on how to properly install the software and connect the scanner.

How to troubleshoot and obtain service and support for your HP scanner.

Troubleshooting
and Support

System Startup Messages (MINI400I.SYS)

The following messages are generated by the HP interface card driver (MINI400I.SYS). This driver is loaded from a command placed in the CONFIG.SYS file.

If you are not using the HP interface card supplied with the scanner and you get one of the following messages, you should eliminate the reference to this driver from your CONFIG.SYS file.

- 1 Open a text editor or a word processor that can edit ASCII text files.
- 2 Open the CONFIG.SYS file in the root directory of your boot drive.
- 3 Find the command "DEVICE = C:\DESKSCAN\MINI400I.SYS".
- 4 Type "REM" and a space in front of the command to disable it.
- 5 Save the CONFIG.SYS file and exit from your text editor.

No Card Found. Press any key to continue. . .

You installed the software for the HP interface card but did not install the card yet.

- If you are going to install the HP interface card, rather than using an existing card, install it at this time.
- If you have installed the HP interface card, switch your computer off and check to make sure that the card is properly seated in the computer.
- If you are intending to use an existing ASPI or CAM card rather than the HP interface card, and you installed the software for the HP interface card, you will need to remove the line "DEVICE=C:\DESKSCAN\MINI400I.SYS" from the CONFIG.SYS file in the root directory of your boot drive.

**No I/O ports available for SCSI card.
Press any key to continue . . .**

The HP interface card needs an unused I/O (Input/Output) address to function correctly. Scanner driver software that was installed with the DeskScan II software will automatically scan for an empty I/O address whenever you switch your computer on. This error indicates that all I/O addresses are currently in use by other cards.

- If you were informed during installation that your system contains an ASPI (Advanced SCSI Protocol Interface) or CAM (Common Access Method) compliant card, try to eliminate the need for the HP interface card by connecting the scanner to the SCSI card according to instructions in appendix A.
- The HP Interface card needs one of 8 blocks I/O addresses (starting at 280₁₆, 290₁₆, 300₁₆, 310₁₆, 330₁₆, 340₁₆, 348₁₆, or 350₁₆) to function correctly:

Check to see which of the cards currently installed in your computer needs I/O addresses. If you find that all of these addresses are already in use, you will need to switch your computer off, change the I/O address on one of the other installed cards, and switch your computer back on. Please refer to the documentation for the conflicting card to find out how to change its I/O address.

The most likely conflict will be with another SCSI interface card, a local area network card, a sound card, or a fax/modem card.

DOSCAM: must load before other SCSI drivers

Make sure that the MINI400I.SYS driver is referenced before any other SCSI related drivers in your CONFIG.SYS file. If you are using the HP interface card, this means that the reference to the MINI400I.SYS driver must occur before the reference to the SJIIX device driver.

Out of memory -- cannot install DOSCAM.

You do not have enough memory to load the HP interface card driver (MINI400I.SYS). You will need to free up additional memory to load this driver. Try eliminating other device drivers that get installed with the CONFIG.SYS file.

System Startup Messages (SJIIX.SYS)

The following messages are generated by the HP interface card driver (SJIIX.SYS). This driver is loaded by a command placed in the CONFIG.SYS file.

WARNING: No HP ScanJet II scanner found.

Please see "If the Scanner Is Not Working" later in this chapter.

**ERROR: No ASPI or CAM driver found.
SJIIX.SYS is NOT installed.**

The SJIIX driver did not find an ASPI or CAM driver.

**Found an ASPI Manager!
Found a CAM Manager!**

Informs you that the SJIIX.SYS scanner driver found an ASPI or CAM manager installed.



Invalid DOS version. DOS must be version 3.2 or above.

You must update your version of DOS.

Error opening CAM manager!

Unsupported (old style) ASPI manager found!

Unsupported (old style) CAM manager found!

If you have installed the HP interface card in your system, it should have installed a new style CAM driver in your CONFIG.SYS file.

Any one of these messages probably indicates that you have another CAM compliant SCSI card in your system, and that the driver for this card is an old style driver.

Scanner found at SCSI ID x:

Informs you of the SCSI address at which your scanner was found.

DeskScan II Error Messages

Scanner Driver Failed to Open

- If you did not reboot after software installation, select Cancel from the dialog, exit Windows, and reboot your computer.
- Something has happened to the device driver statements in your CONFIG.SYS file or the controller configuration you are trying to use does not match the controller configuration for which device drivers were installed.

Using the NotePad application or the SysEdit application that comes with Windows, open the CONFIG.SYS file in the root directory of your boot drive (usually C:) for editing.

If you are using the HP interface card supplied with the scanner you should see lines similar to the following in the file:

```
DEVICE=C:\DESKSCAN\MINI400I.SYS  
DEVICE=C:\DESKSCAN\SJ11X.SYS
```

If you are using an existing ASPI or CAM card to connect your scanner you should see only one of these lines in your CONFIG.SYS file:

```
DEVICE=C:\DESKSCAN\SJ11X.SYS
```

This driver reference must appear after the ASPI or CAM driver for your ASPI or CAM card. Please see the documentation for your ASPI or CAM card for the name of the ASPI or CAM driver.

Delete or add lines to this file as required and save the file.

Scanner Not Responding

Please refer to "If the Scanner Is Not Working" on the next page.

If the Scanner Is Not Working

- Make sure that the power cord is connected to the scanner and plugged into an electrical outlet.
- Make sure that the scanner is correctly connected into an external SCSI chain or directly to your computer.
- Make sure that the scanner is turned on.
- Make sure that the scanner is unlocked. Refer to "Unlocking and Locking Your Scanner" in chapter 1. If the scanner is locked and you try to scan anything it will emit a harsh grinding sound.
- If your scanner is connected to the HP interface card that came with the scanner, make sure that the terminator is plugged into the 25-pin connector on the rear of the scanner.
- If your scanner is plugged into an existing ASPI or CAM card or external SCSI chain, see the section "If You Have Problems with SCSI Devices" below.
- If all else fails, turn everything off, wait 30 seconds, switch all SCSI devices and the scanner back on, and switch your computer on.

If You Have Problems with SCSI Devices

You should check all of the following items if you used an existing SCSI card to connect the scanner, rather than the HP interface card that came with the scanner (appendix A installation only).

Before plugging and unplugging cables you should switch your computer and all SCSI devices off.

- Make sure that all connectors are firmly seated.
- Make sure that you do not have an address conflict in your SCSI chain. If there is an address conflict, your computer will freeze when you try to use the SCSI Address tool, or will fail to recognize one or more of your SCSI devices. Check each SCSI device to determine its SCSI address setting. If any two devices are set to the same address you must change one of them.
- If the scanner is *not* the only external SCSI device, make sure that your other SCSI devices do not require a particular address or position in the chain. You will need to consult the manuals for your other SCSI devices or call the manufacturers to find this information.
- Make sure your SCSI chain is properly terminated (see appendix A).
- Make sure your SCSI chain is less than about 20 feet (6 meters) long including any cabling going to internal SCSI devices.

Troubleshooting and Support
If You Have Problems with SCSI Devices

- If you have an extra SCSI cable, replace the SCSI cable or cables connected to the scanner.
- If you have more than one external SCSI device, disconnect all except the scanner to see if the problem is the scanner or one of the other devices.
- Try changing the SCSI address on the scanner even if there is no address conflict. Turn the scanner off before making this change, and turn it back on after you have made the change. Make sure that the new address does not conflict with any other devices on your SCSI chain.
- If all else fails, turn everything off, wait 30 seconds, switch all SCSI devices and the scanner back on, and switch your computer on.

If You Need Help. . .

HP and its dealers stand behind the HP product you have purchased, and provide you with up-to-date product support materials, convenient assistance, and the latest drivers for HP ScanJet scanners. Your best source of support may be your documentation, 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 retain it for your records.

Help shipped with your scanner

Use the books, the quick reference guide, and the HP DeskScan online help to solve most problems.

README files

Check the README file to find out about changes added to the product after the documentation was printed.

HP Authorized Dealers

Ask for help from your dealer. HP provides training and support for dealers to help them answer your questions.

HP FIRST (Faxed Information Retrieval System)

Call 1-800-333-1917 (U.S. and Canada) or (208)-344-4809 to get information faxed to you. HP FIRST topics include upgrade information, data sheets, application notes, and other hardware and software information (English only).

To use HP FIRST

- 1** From your touch tone telephone or fax machine, dial the HP FIRST telephone number.
- 2** A recorded voice asks you to select the information you want for a particular product using the touch tone keypad of your telephone. It will also ask you for the number of your fax machine.
- 3** When you have completed the selection process, hang up your phone. The HP FIRST system will send the requested information to the fax machine you specified.

Audio Tips

Call (800) 333-1917 (U.S. and Canada) to hear recorded answers to commonly asked questions about scanning (English only).

HP Peripherals Forum on CompuServe

Find 'GO HPPER' for driver upgrades, application notes, and press releases as soon as HP releases them.

HP on AppleLink

Get scanner driver upgrades, application notes, and press releases from HP on AppleLink.

HP Customer Support Center

Call (208) 323-2551 for help from HP support staff. Call from 7:00 a.m. to 6:00 p.m. (Mountain Standard Time) Monday, Tuesday, Thursday or Friday. Hours on Wednesday are from 7:00 a.m. to 4:00 p.m.

Warranty and Service Information

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 Hardware Service

To maintain the warranty, you must have your scanner serviced by an authorized repair depot in the country of original purchase. You may return your scanner to a Hewlett-Packard Dealer Repair Center or a designated Hewlett-Packard Repair Center. To locate the nearest one, use your telephone directory or call one of the Hewlett-Packard regional offices listed here. Please contact your Hewlett-Packard Dealer Repair Center for instructions before returning your scanner for service. If you return your scanner 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 shall pay for return shipment of products to the customer.

Service after the warranty period expires

If your hardware 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.

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. To locate the nearest one, use your telephone directory or call one of the Hewlett-Packard regional offices listed here.

Australasia Sales Headquarters

Hewlett-Packard Australia Ltd.
31-41 Joseph Street
Blackburn, Victoria 3130
Australia
(+61 3) 272-2895

Canada

Hewlett-Packard Ltd.
6877 Goreway Drive
Mississauga, Ontario L4V 1M8
Canada
(416) 678-9430

European Headquarters

Hewlett-Packard S.A.
150, Route du Nant d' Avril
1217 Meyrin 2
Geneva, Switzerland
41/22 780 8111

Far East

Hewlett-Packard Asia Ltd.
22 Floor
EIE Tower, Bond Centre
89 Queensway, Central
Hong Kong
(+85 2) 848-7777

Japan

Yokogawa-Hewlett-Packard Ltd.
3-29-21, Takaido-Higashi
Suginami-Ku
Tokyo 168, Japan
(+81 3) 3331-6111

Latin America

Hewlett-Packard Company
Latin American Region Headquarters
Monte Pelvoux No. 111 - 2nd Floor
Fracc. Lomas de Virreyes
11000 Mexico, D.F. Mexico
(+52 5) 326-4000

U.S.A.

Hewlett-Packard
Customer Support Center
(208) 323-2551

A

How to connect the scanner to an existing interface card.

Using an ASPI
or CAM Card

ASPI and CAM Cards

Your scanner can be connected to an existing ASPI (Advanced SCSI Protocol Interface) or CAM (Common Access Method) compliant SCSI (Small Computer System Interface) card. It can also be daisy-chained to devices that are attached to this card. The card must have been installed with appropriate software drivers, and you must have the required cables.

The main reason to use an existing card is to save an accessory card slot.

You may need to use an ASPI or CAM card if you are installing the scanner on a system with Windows NT. Please see the README file for the latest information on this.

If you know that you have a SCSI card in your system, but the DeskScan II software did not detect it during installation, you should check with the manufacturer of the card to determine whether it is available with an ASPI or CAM driver, and find out how to correctly install the driver on your computer. You will need to run the DeskScan II Setup program again after the ASPI or CAM card and its associated software drivers are correctly installed.

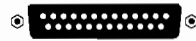
To connect your scanner to an existing card:

- Step 1. Verify Cables A-3
- Step 2. Set the Scanner SCSI Address A-5
- Step 3. Connect the Scanner A-6
- Step 4. Test Your Installation A-12

Step 1. Verify Cables

Before trying to use an existing card you should make sure that you have the correct cables to make the installation. Do not connect any cables at this time.

There are three types of connectors that may be on your ASPI or CAM card or on other devices connected to this card (see below).



25-pin SCSI connector



50-pin SCSI connector

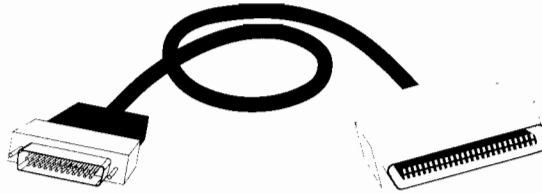


mini 50-pin SCSI-II connector

The 25-pin SCSI connector is the same connector that is used for parallel printer output on many PCs. Almost every PC has at least one parallel printer output, so make certain that you identify it and avoid hooking your SCSI equipment to it.

Step 1. Verify Cables

Your HP interface cable has a 25-pin SCSI connector at one end and a 50-pin SCSI connector at the other end (see below). Since this cable is reversible, you can use this cable to connect to ASPI or CAM cards with either of these two types of connectors.



ScanJet Interface Cable

If your SCSI card has a mini 50-pin SCSI-II connector

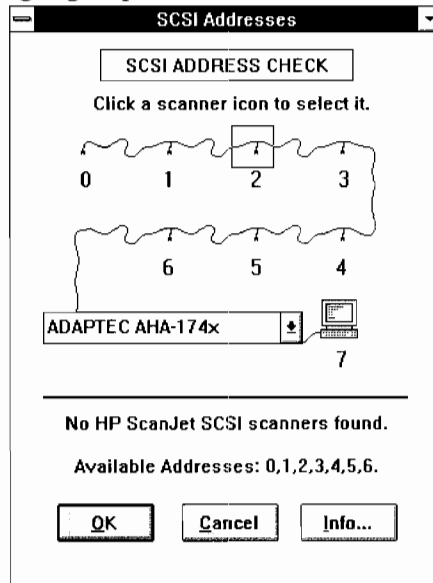
If this is the first external device you are installing, you need to purchase the appropriate SCSI cable before you can use the ASPI or CAM card. You can install the HP interface card now (see chapter 2) and reconnect your scanner to the ASPI or CAM card once you have purchased the correct cable.

Step 2. Set the Scanner SCSI Address

Each SCSI device must have a unique SCSI address (0-7). This address is assigned to the device itself, usually with removable jumpers or a switch. The card is also a device in the chain, and typically uses address 7.

You must make sure that the SCSI address on the scanner does not conflict with the address for any other SCSI device attached to the ASPI or CAM card. The easiest way to find available addresses is to use the SCSI addresses tool that was put into your DeskScan II Program Manager group.

- 1 Exit Windows.
- 2 Reboot your system (press CTRL-ALT DEL).
- 3 Start Windows.
- 4 Double-click the SCSI Addresses tool that appears in the DeskScan II Program Manager group.

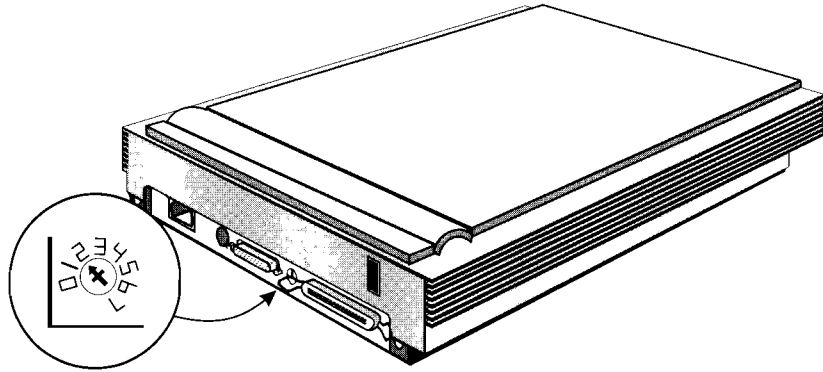


Step 2. Set the Scanner SCSI Address

- 5 Find and remember the number of an open SCSI address. Open addresses are listed at the bottom of the dialog box.
You do not need to do anything in this dialog box at this time. You are using this tool only to find out which addresses are available.

Hard disk drives usually use address 0 or 1, and the ASPI or CAM card usually reserves address 7. You should avoid these addresses.

- 6 Click *Cancel* to exit the SCSI Addresses tool.
- 7 Exit Windows.
- 8 Switch your computer off.
- 9 Make sure that the scanner is off.
- 10 Find the SCSI address indicator on the back of the scanner. This rotary switch is in the same place on the ScanJet IIp and ScanJet IIcx.



- 11 Set the SCSI address indicator to the empty address you found using the SCSI Address tool.

Step 3. Connect the Scanner

- Make sure that your SCSI address is set and does not conflict with any other SCSI devices on the SCSI chain (see step 2).
- Make sure that your computer and all of your SCSI devices are switched off whenever you connect or disconnect cables.

The SCSI chain

SCSI devices are installed in a "chain" with a terminator at each end. You can connect the scanner in any one of the following ways:

- as the only external SCSI device (page A-8)
- as the last device in a SCSI chain (page A-10)
- as a device in the middle of a SCSI chain (page A-11)

The total length of the SCSI chain (including any ribbon cables inside your computer), must be less than about 20 feet (6 meters). In general, the shorter the SCSI chain, the less likely you are to have problems.

SCSI terminators

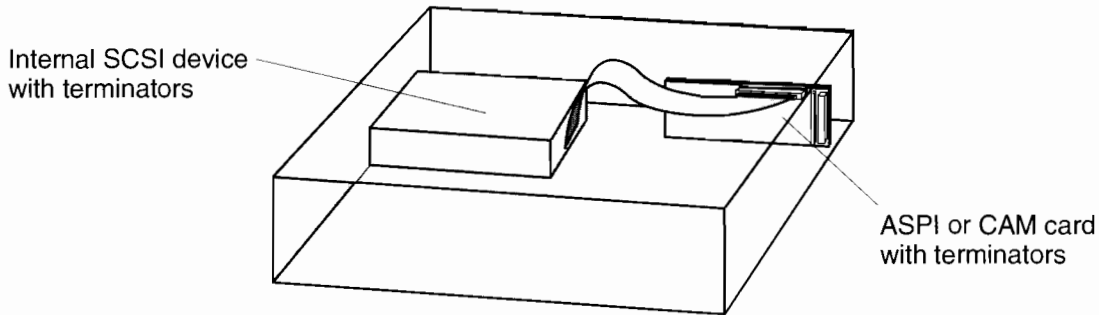
Terminators are required on SCSI device chains because any cable reflects a portion of the electrical signals which reach the end of the cable. The terminator absorbs these reflections to minimize interference with data transfer. Only the first and last device in your SCSI chain should be terminated.

HP ScanJet scanners use an external terminator that you plug into the rear of the scanner if required. For other devices you need to see the manufacturer's documentation to find out how to attach or remove terminators.

Using an ASPI or CAM Card
Step 3. Connect the Scanner

Connecting the scanner as the only external SCSI device.

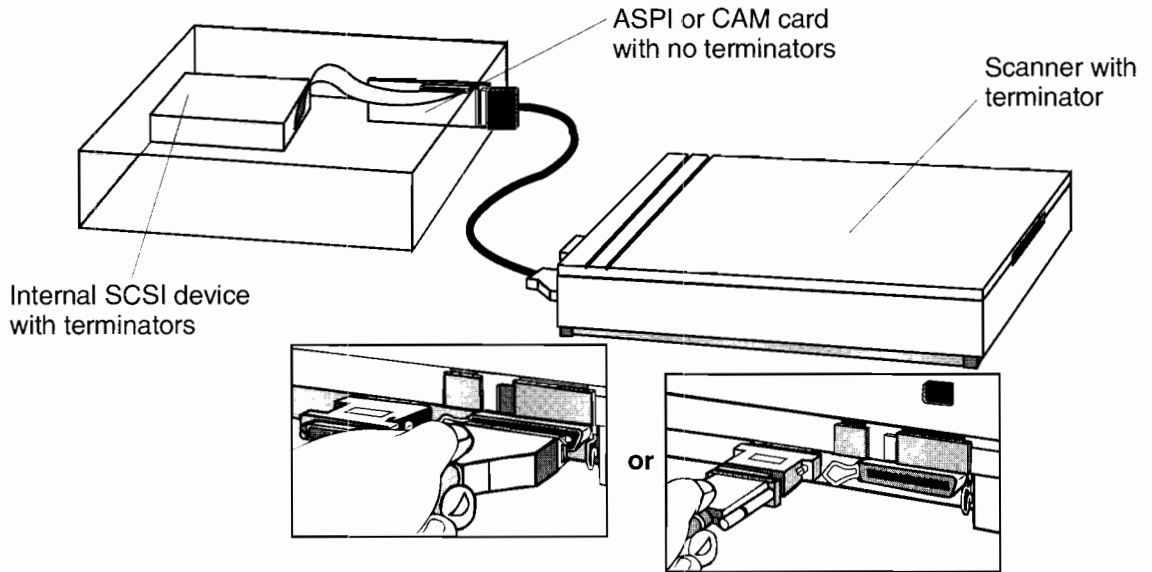
If you currently have only internal devices, your setup will look roughly as follows:



You will need to remove or disable the terminators on the internal card before connecting the scanner.

- 1 Consult the documentation for your SCSI card before you open the computer to make certain you know how to remove or disable the terminators on your card. If this can be done without opening your computer you can skip steps 2 through 7.
- 2 **Refer to the documentation that came with your computer system for instructions on safely opening your computer.**
- 3 Switch your computer system off and disconnect it from power.
- 4 Open your computer so that the accessory card slots are visible.
- 5 Loosen the screw which holds the ASPI or CAM card in place and remove the card from your computer.
- 6 Remove the terminators from the ASPI or CAM card.
- 7 Reinstall the card and tighten the screw which holds it in place.

- 8** Connect the scanner to the internal card. The figure below shows a typical setup.



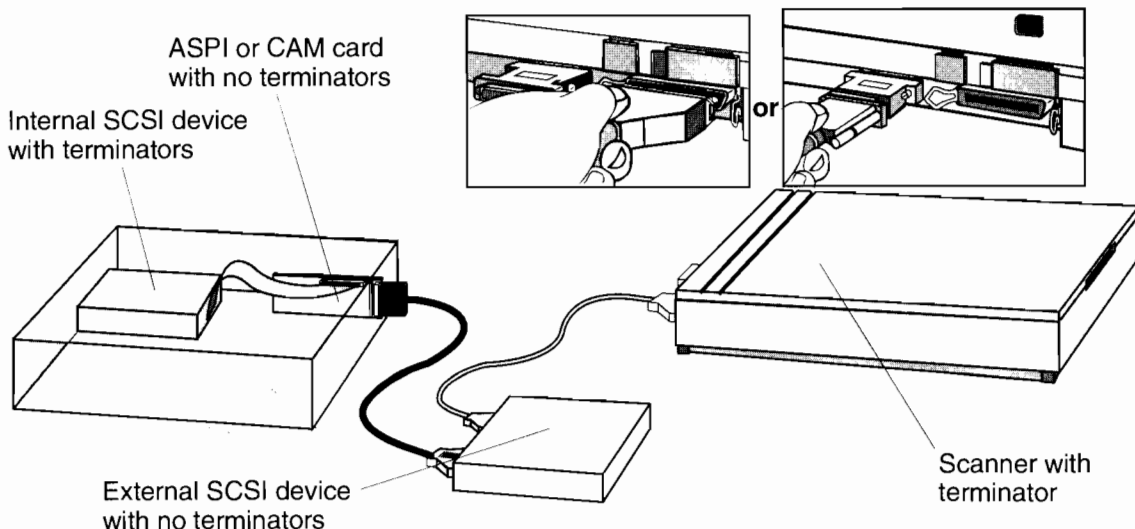
- 9** Connect the power cord to the scanner and to power.
10 Connect your computer to power.
11 Go to step 1 on page A-12.

Using an ASPI or CAM Card
Step 3. Connect the Scanner

Connecting the scanner at the end of a SCSI chain

Since you already have external SCSI devices, you should not need to open your computer. The figure below shows a typical installation with the scanner at the end of the SCSI chain.

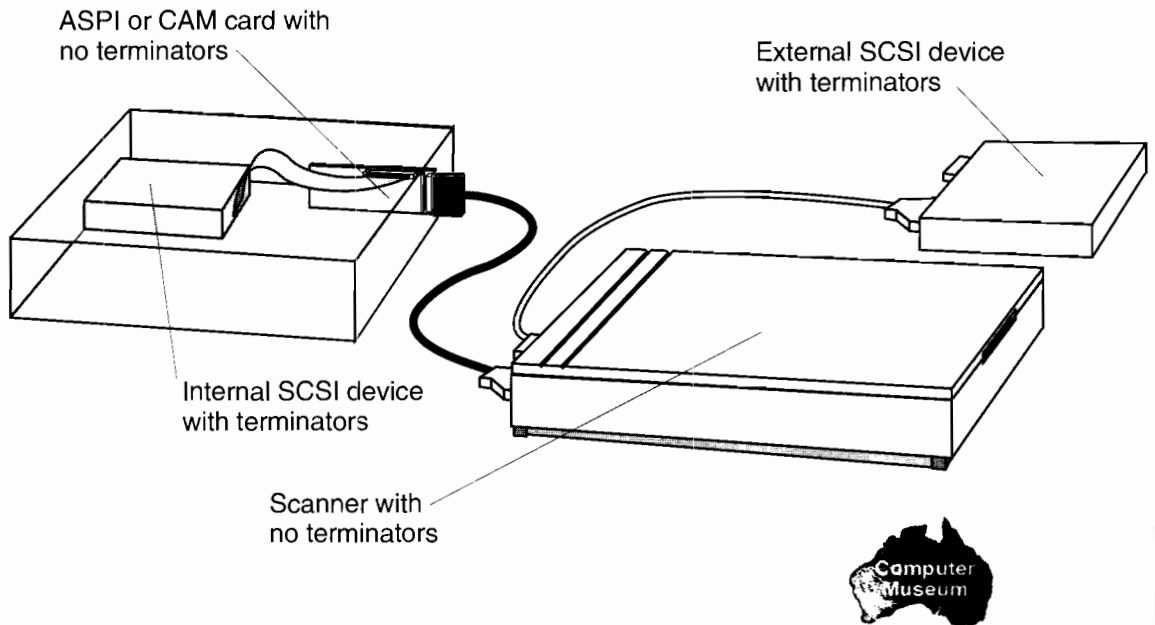
- 1 Switch your computer off.
- 2 Switch all of your external SCSI devices off.
- 3 See the manufacturer's documentation for the last device in your SCSI chain to find out how to remove or disable its terminators.
- 4 Remove or disable the terminators on the last device in your SCSI chain.
- 5 Install the HP ScanJet terminator into the 25-pin SCSI connector on the rear of the scanner.
- 6 Plug the appropriate end of the HP SCSI interface cable into the last device in your SCSI chain. This will probably be the end with the 50-pin SCSI connector.
- 7 Plug the open end of the HP SCSI interface cable into the appropriate plug on the rear of the scanner. You will probably be plugging the 25-pin SCSI connector into the ScanJet terminator.
- 8 Connect the power cord to the scanner and to power.
- 9 Switch your external SCSI devices on.
- 10 Go to step 1 on page A-12.



Connecting the scanner into the middle of a SCSI chain

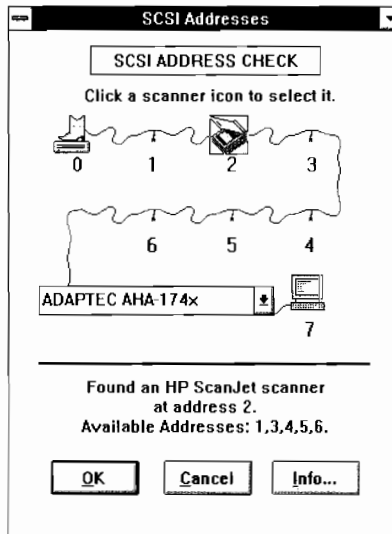
Since you already have external SCSI devices, you should not need to open your computer. The figure below shows a typical installation with the scanner in the middle of the SCSI chain.

- 1 Switch your computer off.
- 2 Switch all of your external SCSI devices off.
- 3 Disconnect the SCSI cable going into the device that you wish to be after the scanner in the SCSI chain. You now have a cable plugged into the next device, with an open connector (probably a 50-pin SCSI connector) which you are holding.
- 4 Plug the connector you are holding into the appropriate connector at the rear of the scanner.
- 5 Connect the HP SCSI interface cable between the scanner and the device from which you unplugged the SCSI chain.
- 6 Connect the power cord to the scanner and to power.
- 7 Switch your external SCSI devices on.
- 8 Go to step 1 on page A-12.



Step 4. Test Your Installation

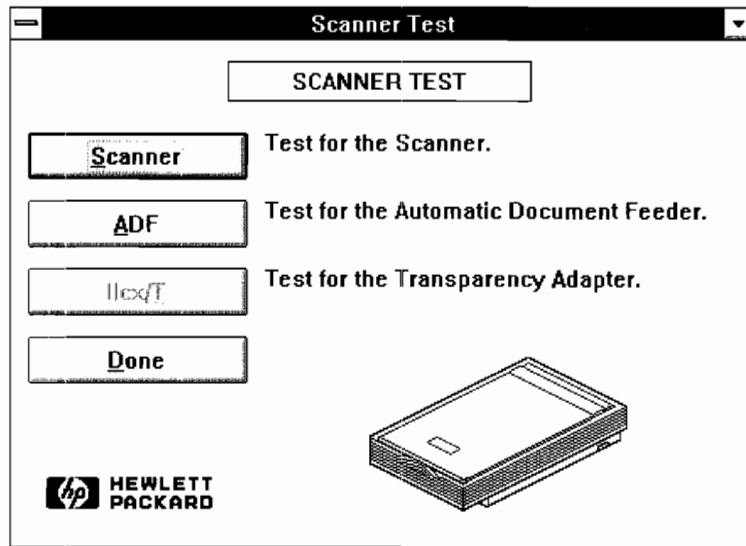
- 1 Make sure that your scanner is unlocked (see chapter 1).
- 2 Switch your scanner on.
- 3 Switch your computer on.
- 4 Start Microsoft Windows.
- 5 Double-click the SCSI Addresses icon.



If the system halts without opening the SCSI Addresses tool you probably have a SCSI address conflict. Switch your computer off, check all of your SCSI device addresses, correct as required, and switch your computer back on.

- 6 Select the scanner icon in the SCSI chain if it is not already selected.
- 7 Click *OK* to close the SCSI Addresses tool.
- 8 Double-click the DeskScan II icon.

- 9 Choose *Scanner Test* from the DeskScan II *Help* menu.



- 10 Click *OK*.
- 11 If the scanner passes its self test, place something on the scanner bed and click *Preview* to do a Preview scan.
- You are done with installation! Have fun with your new scanner. Your *HP DeskScan II User's Guide* can tell you more about how to use the software you just installed.
- If you receive an error message, follow directions in the message and refer to the "Troubleshooting" section of this manual (chapter 3).

B

Replacement Parts for the HP ScanJet IIp and ScanJet IIcx.

Replacement
Parts

Parts & Accessories for the HP ScanJet IIP

You can order replacement parts for your ScanJet IIP by contacting your sales representative or the Hewlett-Packard dealer where you purchased the scanner. Within the United States you can order the parts below directly from HP at (800) 227-8164.

Replacement Parts

| Description | HP Part Number |
|--|---|
| <i>HP DeskScan II Software Kit (Windows version)</i> | Call HP FIRST, your dealer, or the local HP office. |
| <i>HP DeskScan II User's Guide (Windows version)</i> | C2502-90000 |
| <i>Installing HP ScanJet IIP and ScanJet IICx Scanners (ISA/EISA Computer version)</i> | C2502-90001 |
| Terminator | 1252-4726 |
| SCSI Cable (25-pin to 50-pin) | 8120-5517 |
| Power cord* | 8120-1378 |

* Power cord numbers are dependent on your country. Please consult your sales representative if you need to order a power cord.

Accessories

| Description | HP Part Number |
|---|----------------|
| Interface Kit for ISA/EISA Compatible Computers | C1792B |
| Interface Kit for Micro Channel Computers | C1793B |
| Interface Kit for Macintosh Computers | C1794B |
| SCSI Cable (50-pin to 50-pin) | 92222C |
| SCSI-2 Cable (small 50-pin to large 50-pin) | K2297 |
| Automatic document feeder | C1791A |

Parts & Accessories for the HP ScanJet IIcx

You can order replacement parts for your ScanJet IIcx by contacting your sales representative or the Hewlett-Packard dealer where you purchased the scanner. Within the United States you can order the parts below directly from HP at (800) 227-8164.

Replacement Parts

| Description | HP Part Number |
|--|---|
| <i>HP DeskScan II Software Kit (Windows version)</i> | Call HP FIRST, your dealer, or the local HP office. |
| <i>HP DeskScan II User's Guide (Windows version)</i> | C2502-90000 |
| <i>Installing HP ScanJet IIp and ScanJet IIcx Scanners (ISA/EISA Computer version)</i> | C2502-90001 |
| Terminator | 1252-4726 |
| SCSI Cable (25-pin to 50-pin) | 8120-5517 |
| Transparency adapter | C2501A |
| Power cord* | 8120-1378 |

* Power cord numbers are dependent on your country. Please consult your sales representative if you need to order a power cord.

Accessories

| Description | HP Part Number |
|---|----------------|
| Interface Kit for ISA/EISA Compatible Computers | C2502A |
| Interface Kit for Micro Channel Computers | C2503A |
| Interface Kit for Macintosh Computers | C2504A |
| SCSI Cable (50-pin to 50-pin) | 92222C |
| SCSI-2 Cable (small 50-pin to large 50-pin) | K2297 |
| Automatic document feeder | C1751A |
| Transparency Adapter | C2501A |

C

Specifications for the HP ScanJet IIp and HP ScanJet IICx scanners.

Specifications

Specifications
HP ScanJet IIp Scanner Specifications

HP ScanJet IIp Scanner Specifications

| | |
|--------------------------|---|
| Scanner type | Flatbed |
| Maximum document size | 216 x 297 mm (8.5 x 11.7 inches) |
| Scanning element | charged-coupled device |
| Light source | Xenon lamp |
| Interface | SCSI |
| Optical resolution | 300 dpi |
| Selectable resolution | 12 to 1200 dpi at 100% scaling |
| Scaling | 4 to 400% in 1% increments @ 300 dpi (dependent on resolution) |
| Scanning speed* | 10 seconds @300 dpi, letter size |
| Scanning modes | 4-bit (16 grayscale levels), 8-bit (256 grayscale levels), b/w (threshold and dithered) |
| Image processing options | Dithering, thresholding, gamma adjustment, mirroring, data inversion |
| AC line voltage | 100-127 VAC, 50/60 Hz (C1790A, 120V) 220-240 VAC, 50/60 Hz (C1790A, 230V) |
| Power consumption | 30 W maximum |
| Weight | Approximately 6 kilograms (13 lbs.) |

* Actual scan time may vary depending on your system and selected image processing options.

HP ScanJet IIcx Scanner Specifications

| | |
|--------------------------|--|
| Scanner type | Flatbed |
| Maximum document size | 216 x 356 mm (8.5 x 14 inches) |
| Scanning element | charged-coupled device |
| Light source | twin fluorescent lamps |
| Interface | SCSI |
| Optical resolution | 400 dpi |
| Selectable resolution | 12 to 1600 dpi at 100% scaling |
| Scaling | 3 to 400% in 1% increments @ 400 dpi (dependent on resolution) |
| Scanning speed* | 20 seconds @ 400 dpi; 15 seconds @ 300 dpi; 3 seconds @ preview resolutions; (A4 or letter size, not including lamp calibration time of 3.5 seconds) |
| Scanning modes | 4-bit (16 grayscale levels), 8-bit (256 grayscale levels), 24-bit (millions of colors) |
| Image processing options | Dithering, thresholding, gamma adjustment, mirroring, data inversion, filtering |
| AC line voltage | 100-127 VAC or 220-240 VAC, 50/60 Hz, autoswitching |
| Power consumption | 100 W maximum |
| Weight | 13.4 kilograms (29.5 lbs.) |

* Actual scan time may vary depending on your system and selected image processing options.

Environmental Ranges

Temperature

Operating

5 to 40° C (41 to 104° F)

Storage

-40 to 60° C (-40 to 140° F)

Humidity

Operating

- 10 to 90% non-condensing (5 to 35° C)
- 10 to 60% non-condensing (35 to 40° degrees C)

Storage

- 10 to 90% (0 to 40° C)
- 10 to 60% (40 to 60° C)

German Noise Declaration

Geraeuschemission

LpA < 70 dB

am Arbeitsplatz

normaler Betrieb

nach DIN 45635 T. 19

Die Daten sind die Ergebnisse von Typprüfungen.

English Translation of German Noise Declaration

Acoustic Noise Emissions

LpA < 70 dB

operator position

normal operation

per ISO 7779

All data are the results from type tests.

Japan VCCI Declaration

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

This apparatus is a Class 2 ITE (information apparatus which is to be used at residential or its adjacent areas) which meet to the VCCI standards to prevent radio interference at residential and its adjacent areas.

However, it may become a cause of radio interference if this apparatus is used with radio, television receivers at close range. Please correctly use this as per the operating manuals.

EC Declaration of Conformity

according to ISO/IEC Guide 22 and EN45014

Manufacturer's Name: Hewlett-Packard Company
Manufacturer's Address: Greeley Hardcopy Division
700 71st Avenue
Greeley, Colorado 80634 U.S.A.

declares that the product

| | | |
|-------------------------|--|---|
| Product Name: | HP ScanJet IIp | HP ScanJet IIcx |
| Model Number(s): | HP C1790A | HP C2500A |
| Product Options: | HP C1791A HP C1792B HP C1793B HP C1794B | HP C1751A HP C2501A HP C2502A HP C2503A HP C2504A |

conforms to the following Product Specifications:

Safety: IEC 950/EN60950

EMC: EN55022 Class B
(Electromagnetic Interference)(1988)

EN50082.1
prEN55024.2 (Electrostatic Discharge)(1992)
prEN55024.3 (Electromagnetic Immunity)(1992)
prEN55024.4 (Electrical Fast Transients)(1991)

Supplementary Information:

Date: October, 1993

Glossary

ASPI (Advanced SCSI Protocol Interface) An interface standard developed by Adaptec Inc. that has become one of the major SCSI interface standards for PCs.

AUTOEXEC.BAT file A text file which contains a set of commands that your computer carries out whenever it is started or restarted. This file is usually used to automatically load programs that need to be on your system whenever it is running.

CAM (Common Access Method) An ANSI standard interface for SCSI controllers.

CONFIG.SYS file A text file which contains configuration commands used when you start your computer. Commands in this file enable or disable system features, set limits on various system resources, and extend operating system functionality by loading device drivers.

configuration work diskette A diskette which is used by EISA systems to keep track of your system configuration.

device driver Software that the system uses to communicate with devices such as a display, printer, mouse, or scanner.

EISA (Extended Industry Standard Architecture) A bus standard introduced in 1988 intended to supplant ISA, and still be compatible with all ISA cards.

I/O addresses Locations within the input/output address space of your computer which are used by devices such as printers, modems or scanners. The address or addresses are used for communications between software and the device to which the address is assigned.

IRQ (Interrupt Request Line) Hardware lines over which devices can send signals indicating that they are ready to send or receive information (interrupts). Each device that uses interrupts should use a separate IRQ to avoid conflicts.

ISA (Industry Standard Architecture) An unofficial designation for the bus design of the IBM PC/AT.

SCSI (Small Computer System Interface) An interface that allows hard disks and other high-performance peripherals to be attached to computers.

terminator A device that prevents data signal reflection from the end of an electrical conductor. This ensures that the reflected signals do not mix with the primary signals and confuse any devices which need the data being sent on the conductor.

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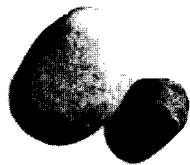
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