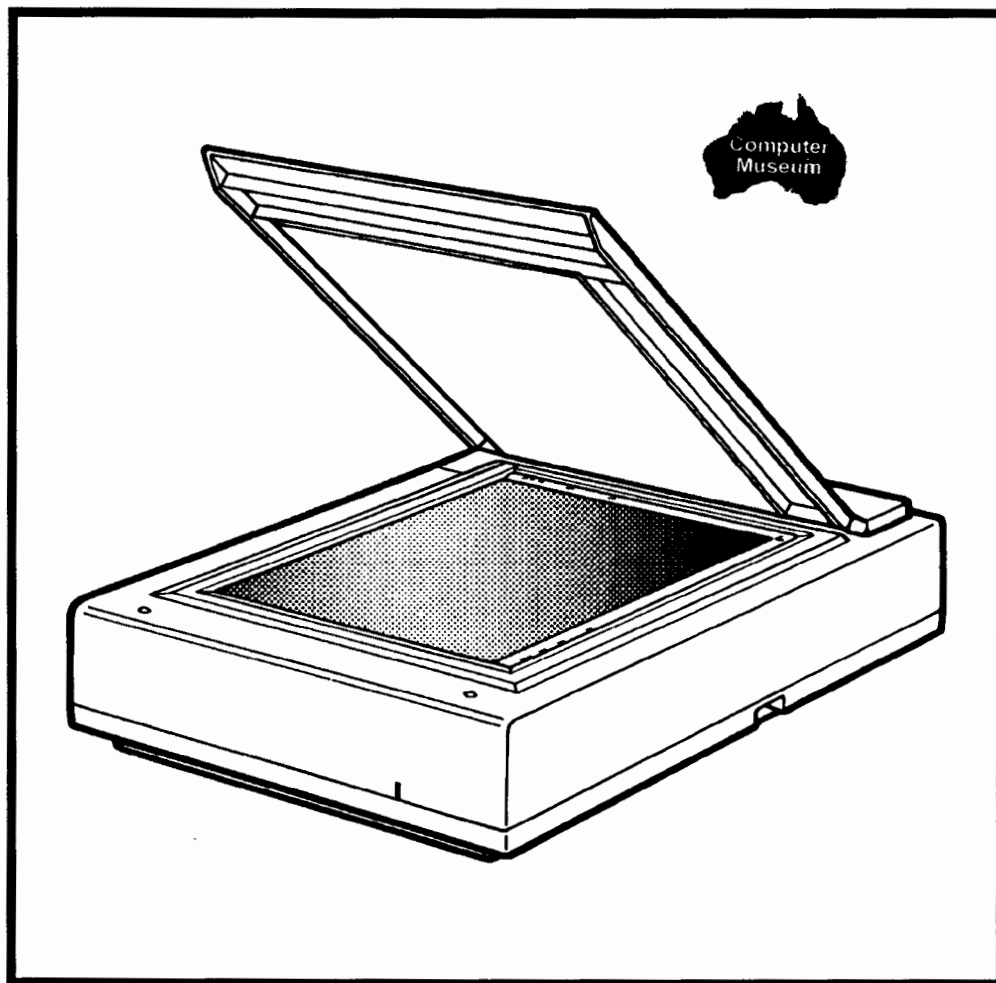


HEWLETT-PACKARD



Guide to HP ScanJet Plus

HP Computer Museum
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Guide to HP ScanJet Plus HP 9195A/AB



FCC Radio Frequency Interference Statement (110V Model 9195A)

This equipment generates and uses radio frequency energy and may, if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, cause interference to radio and television reception.

It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference in a residential installation. Shielded data cables were used during the type test; therefore, properly shielded and terminated data cables should be used to reduce potential interference. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause 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 the receiving antenna
- 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.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions.

FCC Radio Frequency Interference Statement, (220V Model 9195AB)

This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Guide to HP ScanJet Plus

Introduction

Welcome to Hewlett-Packard's ScanJet Plus Desktop Scanner, a valuable addition to your personal computer. With the help of a compatible software package, ScanJet Plus becomes a valuable peripheral for a wide variety of applications. You now have the scanning capability you need and Hewlett-Packard's commitment to quality and service.

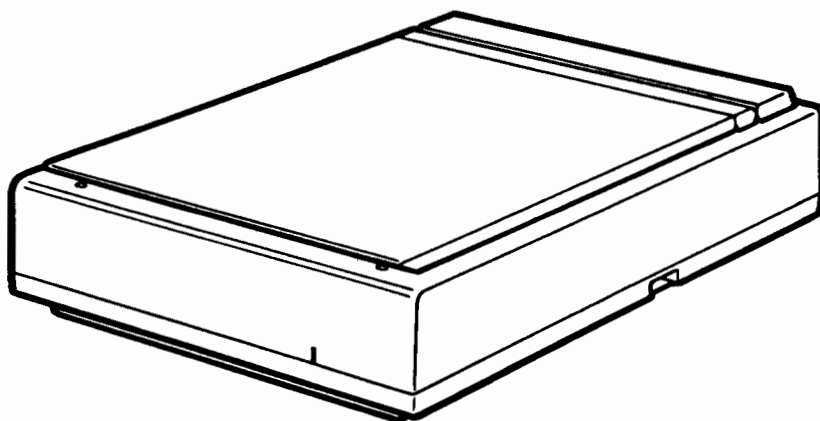


Figure 1. HP ScanJet Plus

The instructions in this guide are also included in the *ScanJet Plus User's Guide* accompanying the Hewlett-Packard interface kit.

Unpacking and Inspecting

Check for damage while unpacking the ScanJet Plus. If you notice any damage, notify the dealer or the HP sales office where you purchased the ScanJet Plus and file a claim with the carrier.

Note

Save all shipping and packaging materials in case you want to transport ScanJet Plus in the future.

You should find the following items in the scanner box:

- ScanJet Plus
- Power cord
- Installation guide

Note

The above list is subject to change. Refer to the packing list for the most accurate description of contents.

2 ScanJet Plus Guide

Remove all packaging materials from ScanJet Plus, including the tape from the copyboard cover and any paper between the copyboard glass and the copyboard cover. If you need help identifying these parts, see figures 2 and 3.

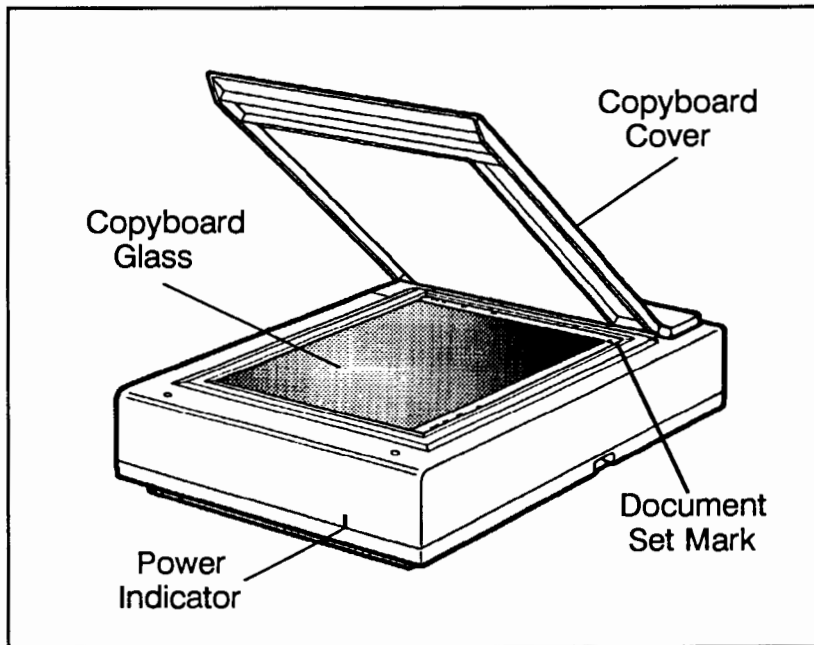


Figure 2. HP ScanJet Plus, Front View

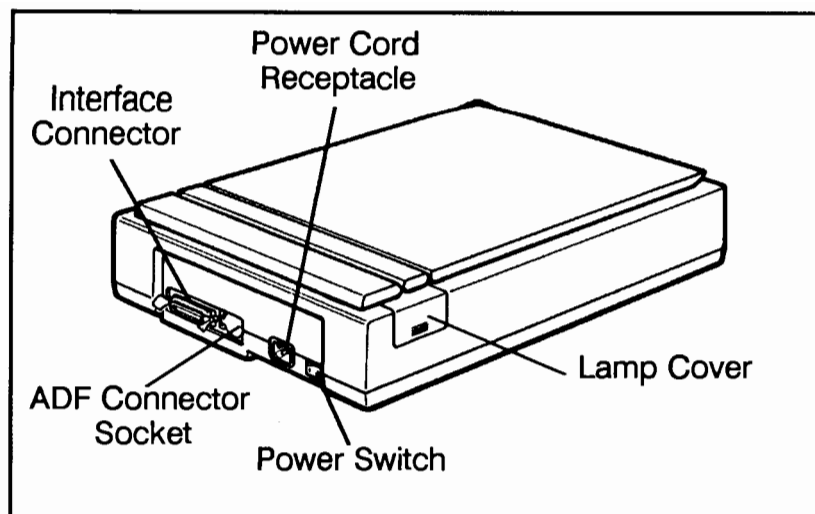


Figure 3. HP ScanJet Plus, Rear View

4 ScanJet Plus Guide

Precautions

Warning

To avoid electrical shock, do not remove the copyboard glass for any reason. If the glass breaks, unplug ScanJet Plus immediately.

To keep ScanJet Plus performing well, follow these guidelines:

- Turn ScanJet Plus off when it is not in use.
- Do not disassemble or lubricate any parts.
- Keep objects off the scanner's copyboard cover.
- Do not press on the scanner's copyboard cover.



Unlocking ScanJet Plus

Caution

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

To unlock the scanner, follow these steps:

1. Tilt the scanner on end.
2. Locate the release lever on the underside of the scanner.
3. Slide the release lever out from the scanner until you hear a click and the release lever is even with the scanner body.
4. Return the scanner to its original position.

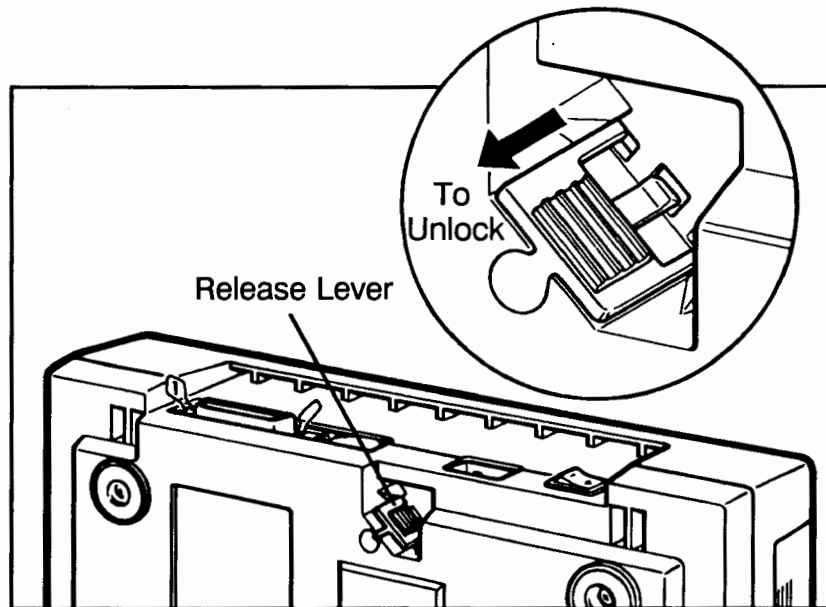


Figure 4. Unlocking ScanJet Plus

Locking ScanJet Plus

To avoid damage, ScanJet Plus must be locked before it is moved. To lock the scanner, follow these steps:

1. Turn the scanner on so the scanning unit returns to its home position. The scanning unit must be in the home position before the scanner can be locked.
2. Turn the scanner off.
3. Disconnect all cables from the scanner.
4. Tilt the scanner on end.
5. Locate the release lever on the underside of the scanner.
6. Slide the release lever toward the scanner until you hear it click.
7. Return the scanner to its original position.

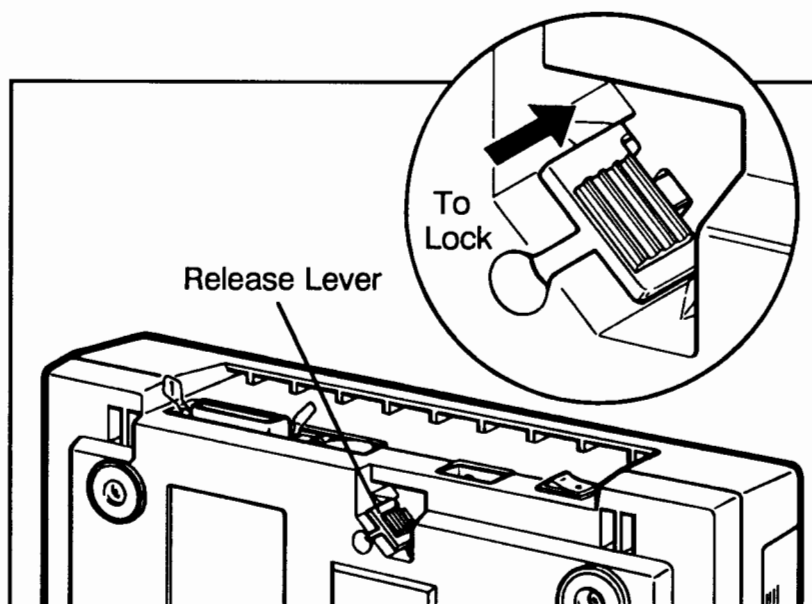


Figure 5. Locking ScanJet Plus

Installing and Operating

Caution

Before scanning, make sure the release lever is unlocked.

Connecting ScanJet Plus to your computer requires an interface kit. Follow the installation and cabling instructions accompanying your particular kit.

After installing the interface and connecting the appropriate cables in your system, follow these steps:

1. Attach the power cord to ScanJet Plus. See figure 6.

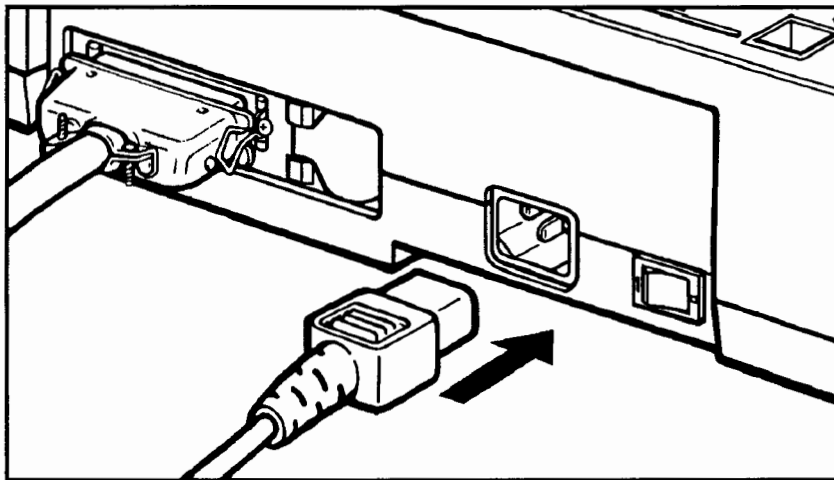


Figure 6. Connecting the Power Cord to ScanJet Plus

2. Plug the power cord into an alternating current (AC) outlet. Plug in the rest of your computer system.
3. Turn on the scanner's power switch. See figure 7. The power indicator on the front of ScanJet Plus should be lit.
4. Turn on your computer power switch. (If you have a separate switch for your computer screen, turn it on too.)

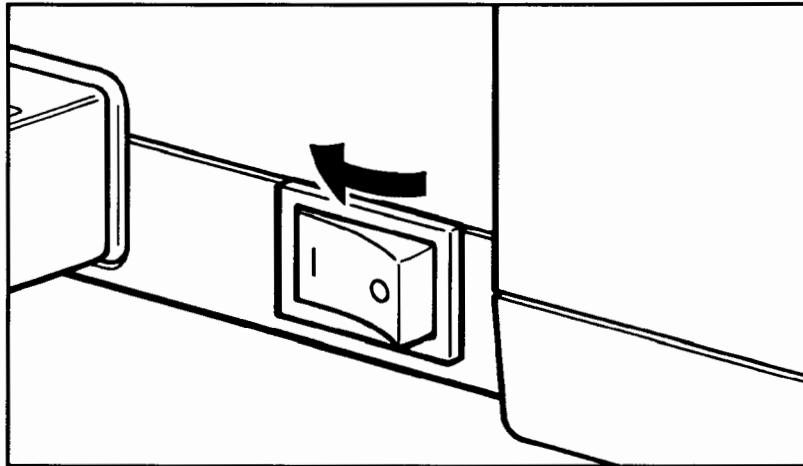


Figure 7. Turning ScanJet Plus On

Preparing to Scan

Follow these steps to place a document on the copyboard glass:

1. Raise the copyboard cover.
2. Locate the orange **V** in the top right corner of the copyboard glass. This is the document set mark.
3. Place the document face down on the copyboard glass. Make sure the top right corner of the document rests against document set mark as shown in figure 8.

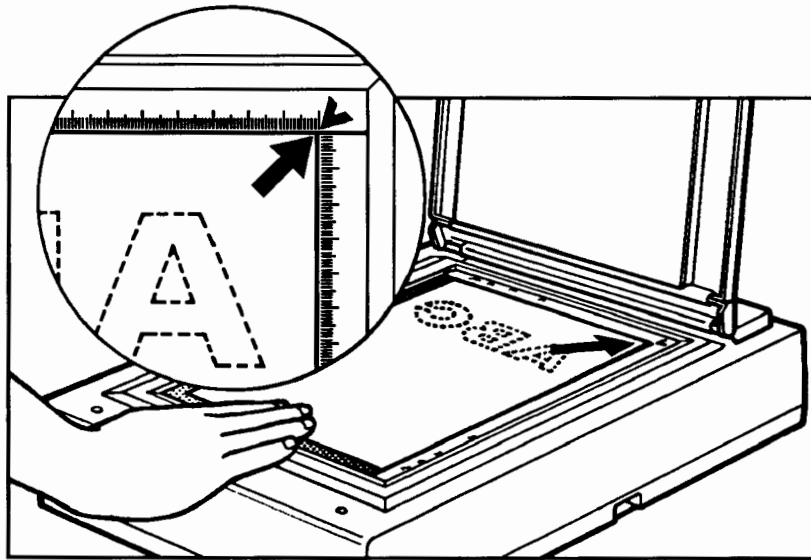


Figure 8. Placing Documents on the Copyboard Glass

4. For best results, close the copyboard cover when scanning.
5. Scan the document using the instructions in the software package you are using with ScanJet Plus.

Cleaning

To keep ScanJet Plus performing at its best, occasionally clean your scanner following these steps:

1. Turn off the power switch and unplug ScanJet Plus.
2. Using a soft cloth and a mild detergent, gently wipe the copyboard glass, copyboard cover and the exterior of the scanner. See figures 9 and 10. Avoid spraying cleaning solution directly on the copyboard glass as the spray could penetrate below the glass and contaminate internal mirrors and lenses.
3. Dry with a clean cloth.

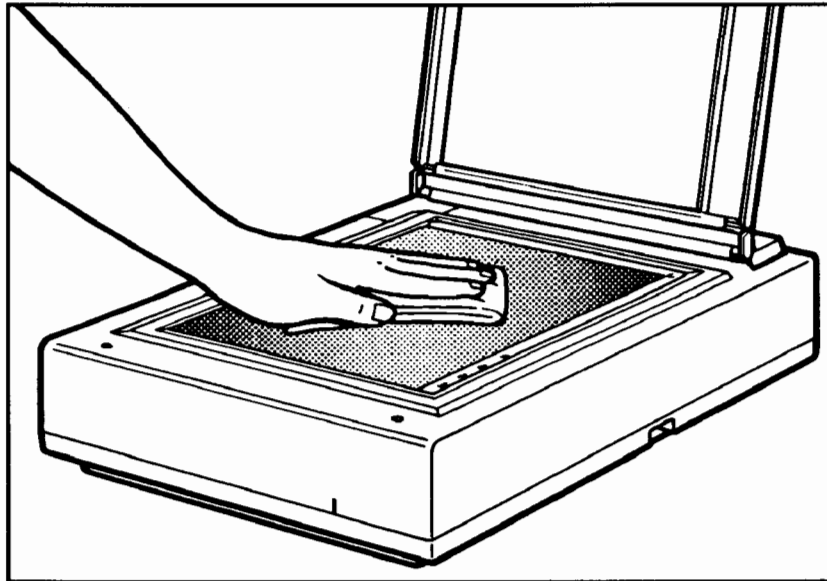


Figure 9. Cleaning the Copyboard Glass

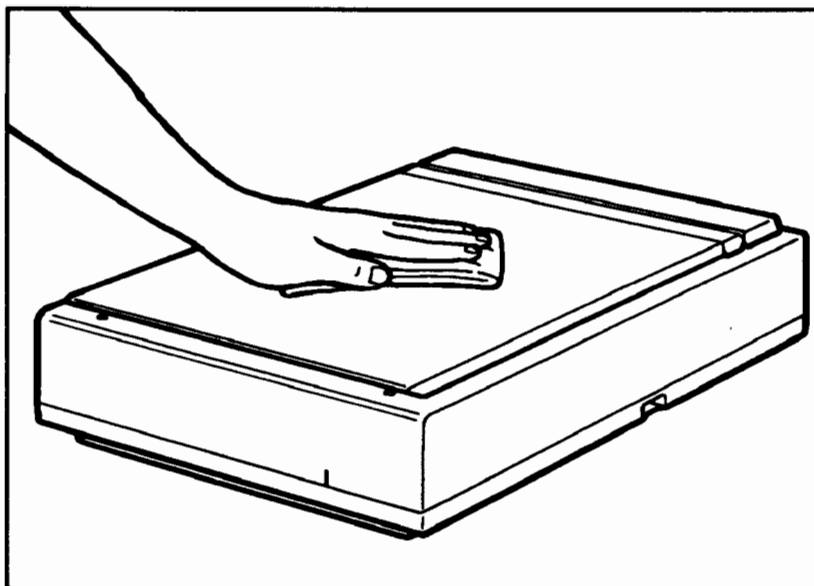


Figure 10. Cleaning the Copyboard Cover

Replacing the Light Source

ScanJet Plus comes with a replaceable lamp capable of over 100,000 scans. When the lamp becomes dim or fails, your host computer may indicate an error. When the lamp needs replacing, order HP part number 5180-0023 from your HP dealer or sales representative. To replace the lamp, follow these steps:

1. Turn off ScanJet Plus and the host computer.
2. Remove the copyboard cover by sliding it toward the front of the scanner. See figure 11.

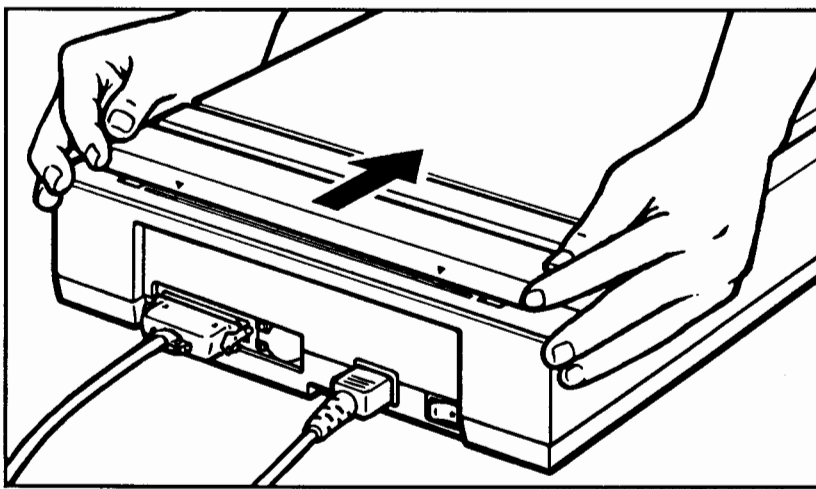


Figure 11. Sliding the Copyboard Cover Forward



3. Lift and remove the copyboard cover. See figure 12

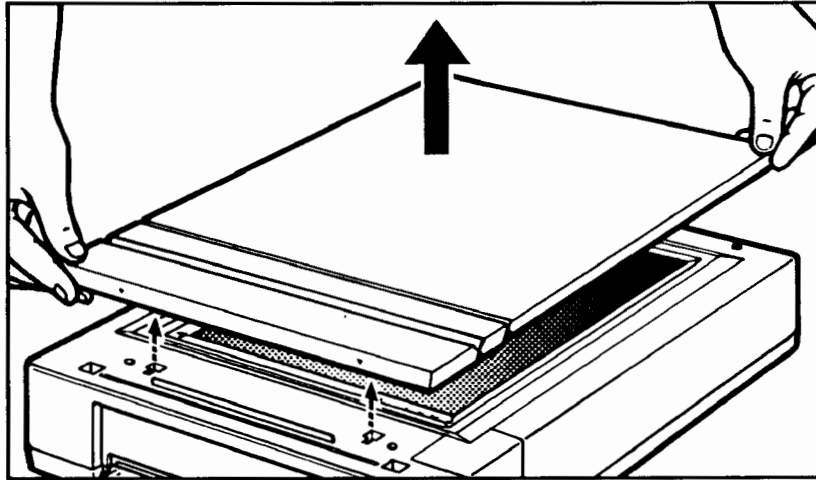


Figure 12. Removing the Copyboard Cover

4. Disconnect the interface cable from ScanJet Plus. See figure 13.

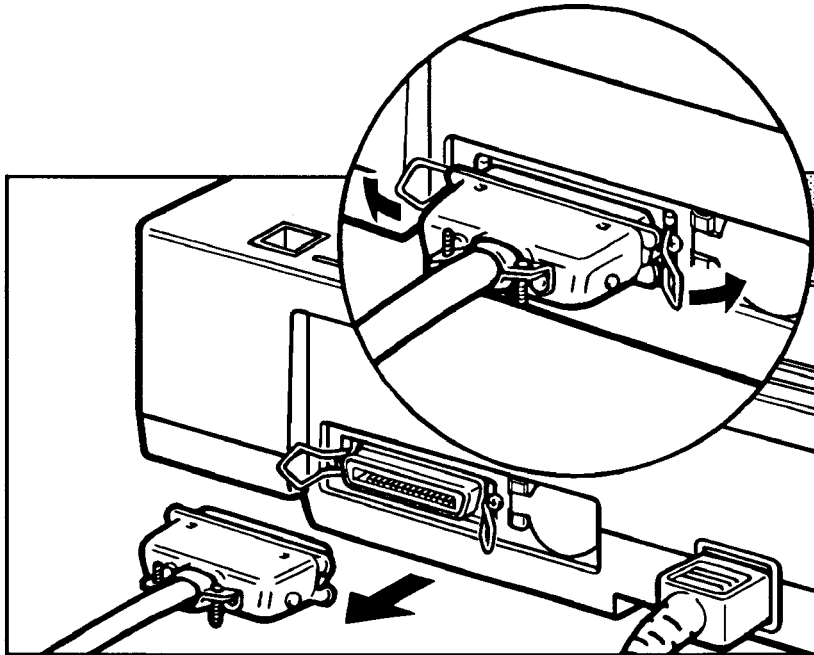


Figure 13. Disconnecting the Interface Cable

5. To return the scanning unit to its home position, turn the scanner on.
See figure 14.

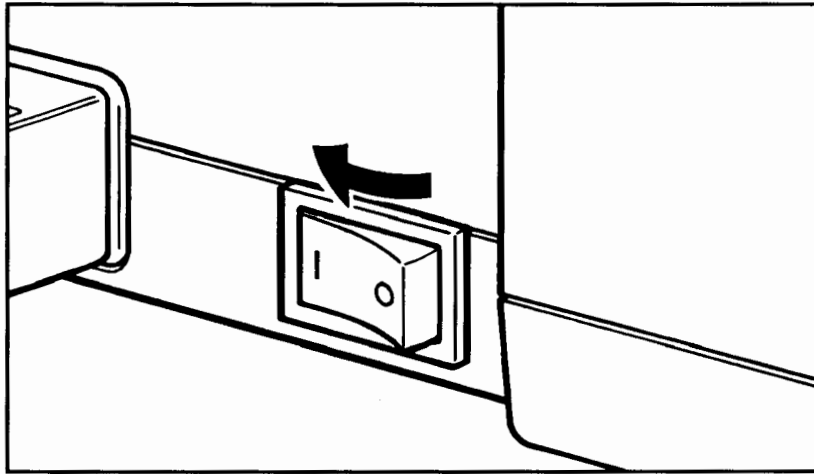


Figure 14. Turning ScanJet Plus On

6. When scanning unit is in the home position, turn the scanner off. See figure 15.

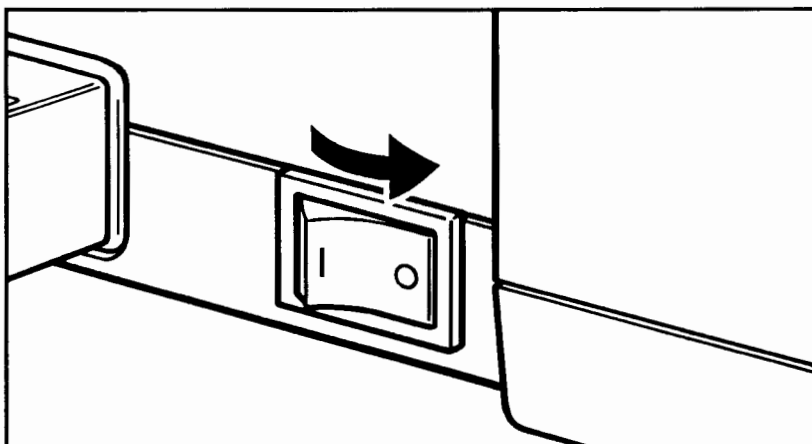


Figure 15. Turning ScanJet Plus Off

7. Disconnect the power cord from the AC outlet and from ScanJet Plus. See figure 16.

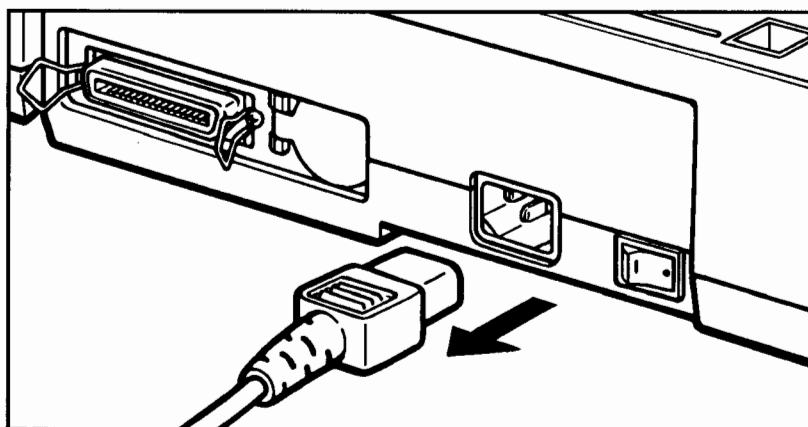


Figure 16. Disconnecting the Power Cord

8. Locate the lamp cover and remove it by gently sliding it up. See figure 17.

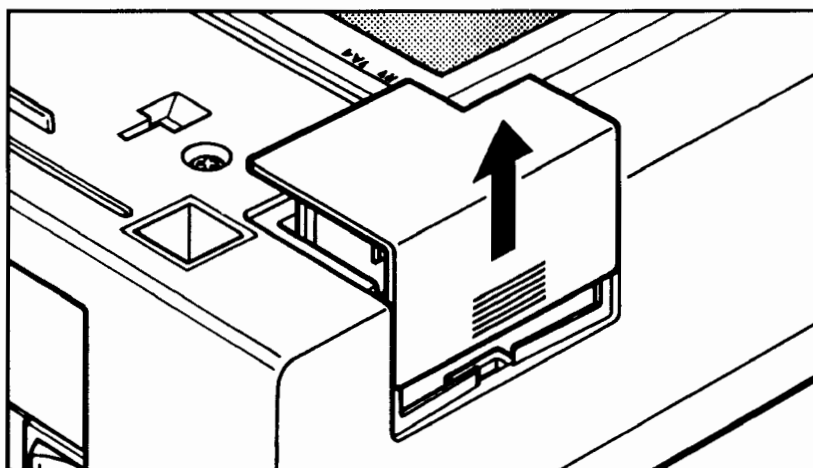


Figure 17. Removing the Lamp Cover

9. Unplug the lamp connector by depressing the side clip and pulling the connector out of the socket. See figure 18.

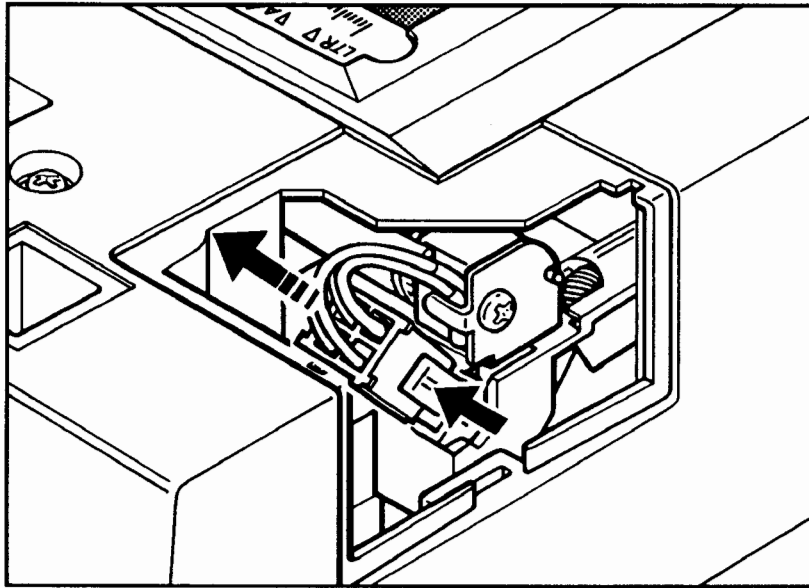


Figure 18. Unplugging the Lamp Connector

10. Gently remove the lamp holder by sliding it out of the scanner. See figure 19.

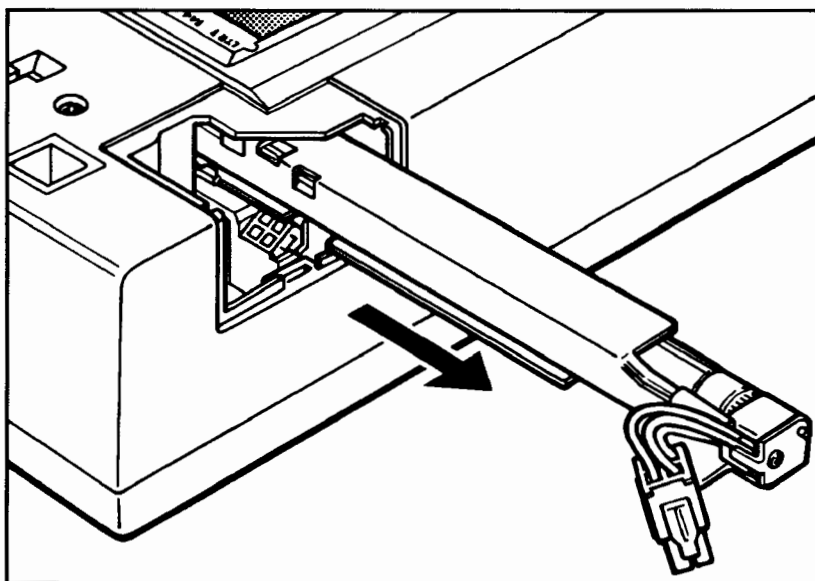


Figure 19. Removing the Lamp Holder

11.Remove the used lamp from the lamp holder. See figure 20.

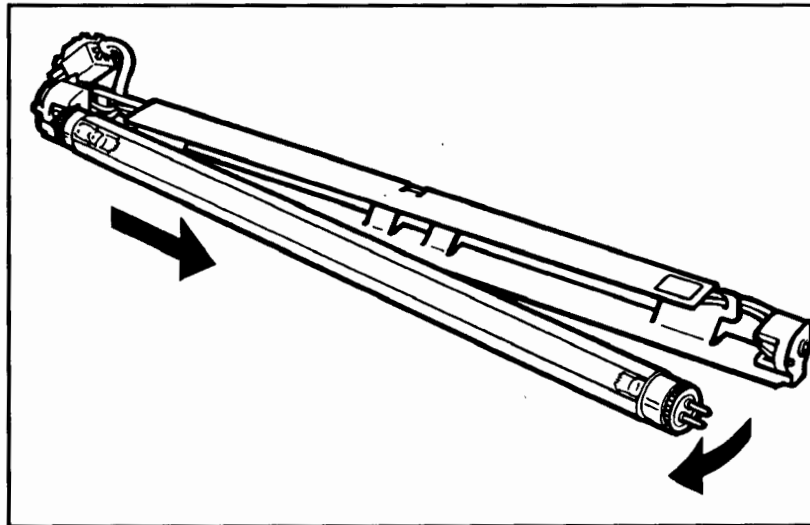


Figure 20. Removing the Used Lamp

- 12.** Insert the new lamp making sure the clear portion of the glass faces out from the lamp holder. See figure 21.

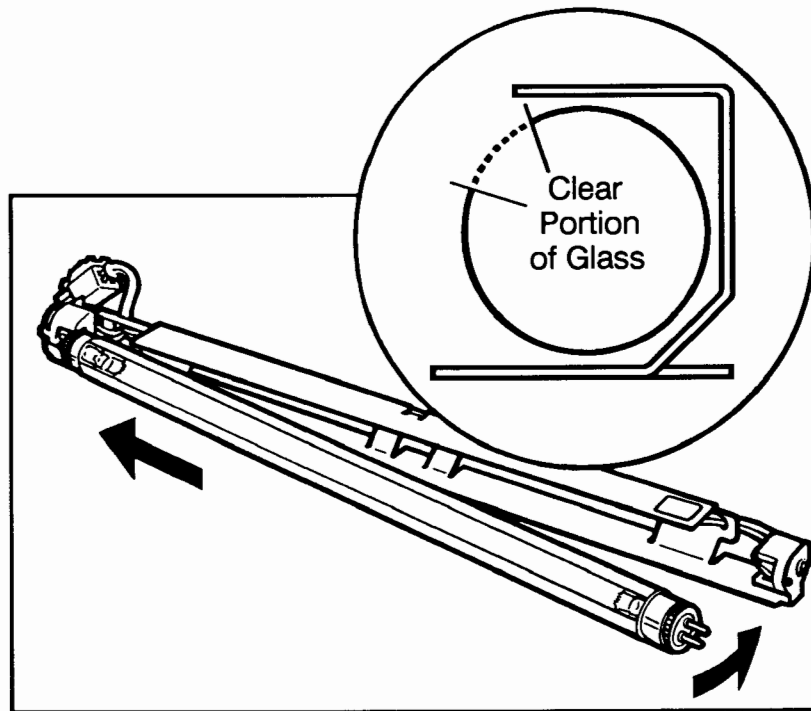


Figure 21. Inserting the New Lamp

13. Insert the lamp holder as shown making sure the base of the holder fits into the plastic guide. See figure 22.

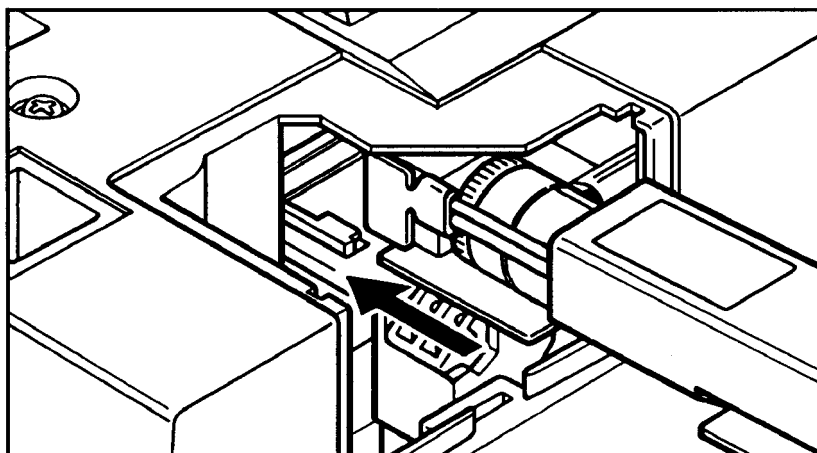


Figure 22. Inserting the Lamp Holder

14. Slide the lamp holder completely into the scanner. See figure 23.

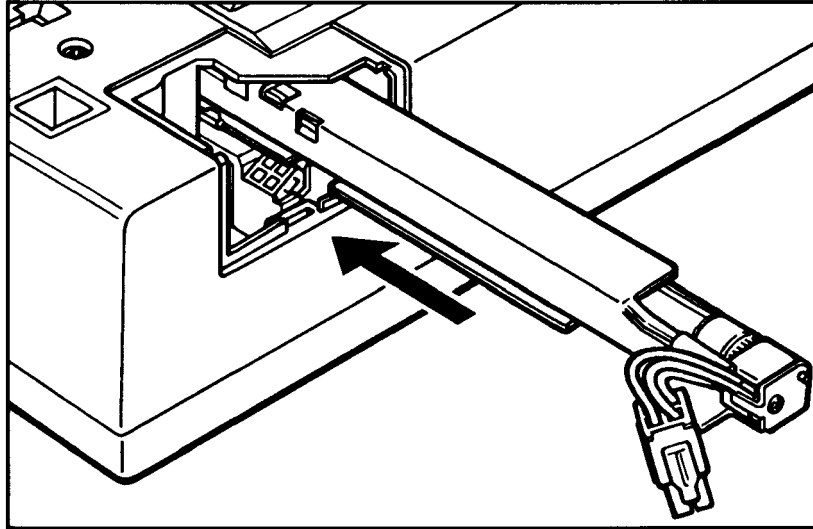


Figure 23. Sliding In the Lamp Holder

- 15.** Plug in the lamp connector by depressing the side clip and plugging it into the socket. See figure 24.

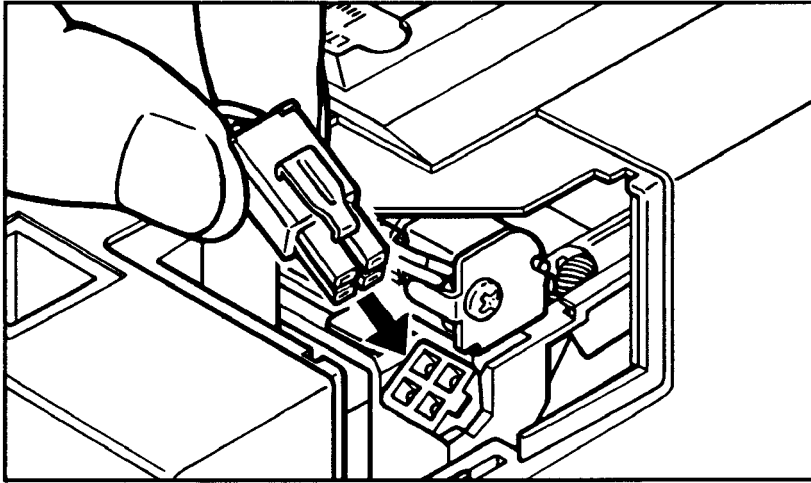


Figure 24. Plugging In the Lamp Connector

16. Replace the lamp cover. See figure 25.

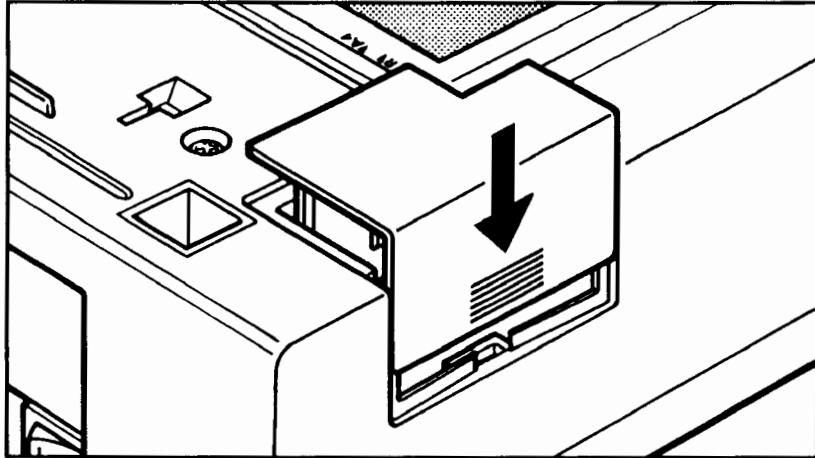


Figure 25. Replacing the Lamp Cover

17. Reconnect the scanner's power cord, interface cable and cover.

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 end user unless an alternate warranty coverage is selected by the purchaser. Contact your HP Sales Office for details of other warranty options available. If Hewlett-Packard receives notice of such defects during the warranty period, Hewlett-Packard will either, at its option, 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.

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.

Obtaining Warranty Service

To obtain warranty service, products must be returned to a service facility designated by Hewlett-Packard. Hewlett-Packard may repair on-site at the option of the customer. The customer is responsible for travel charges when on-site repair is requested. Warranty service for products purchased as part of a system will be subject to service in accordance with the system services.

Customers shall prepay shipping charges for products returned to Hewlett-Packard for warranty service and Hewlett-Packard shall pay for return of the products to customer. However, customers shall pay all shipping charges, duties, and taxes for products returned to Hewlett-Packard from another country.

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. Some states or provinces do not allow limitations on the duration of an implied warranty so the above limitation or exclusion may not apply to you. However, any implied warranty or merchantability or fitness is limited to the one-year duration of the written warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state, or province to province.

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. Some states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Hewlett-Packard offers complete service and maintenance worldwide. Maintenance agreements are available for HP peripheral products. Advantages of these agreements to the customer include a fixed annual cost, individualized cost-effective contracts, and a choice of response times. Current rates can be determined by contacting your local HP Sales Office.

Funkentstörung Deutschland Herstellerbescheinigung

Hiermit wird bescheinigt, daß das Gerät HP 9195AB in Übereinstimmung mit den Bestimmungen von Postverfügung 1046/84 funkentstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Wird das Gerät innerhalb einer Anlage betrieben,

- so muß bei Inanspruchnahme der Allgemeinen Genehmigung FTZ 1046/84 die gesamte Anlage der oben genannten Genehmigung entsprechen.
- die mit einer FTZ-Serienprüfnummer gekennzeichnet ist, und für die eine Betriebsgenehmigung vorliegt oder beantragt wird, so sind in der Regel keine weiteren Schritte notwendig.

Electromagnetic Interference Regulations Manufacturer's Declaration (English Translation)

This is to certify that the HP 9195AB is in accordance with the Radio Interference Requirements of Directive FTZ 1046/84. The German Bundespost was notified that this equipment was put into circulation; the right to check the series for compliance with the requirements was granted.

If this equipment is to be operated with a system

- and if the General License is being claimed, the complete system has to comply with the General Licensing requirements.
- which has its own FTZ-Serial License, and for which an operating license has been granted or requested, usually no further steps are necessary.

Specifications

Scanner type	Flatbed
Maximum Document size	(216 by 297 mm) 8.5 by 11.7 in.
Scanning element	Charge-coupled device
Light source	Flourescent lamp
Interface	Bi-directional Centronics
Optical resolution	300 ppi (pixels per inch)
Selectable resolution	Variable from 12 to 1500 ppi
Scaling	4 to 200% in 1% increments at 300 ppi resolution (Scaling range varies for each resolution)
Scanning modes	Line art, Coarse fatting dither, Fine fatting dither, Bayer dither, Vertical line dither, 4-bit and 8-bit grayscale
Scanning speed	10 seconds (A4 or letter size, line art or dithered mode, 300 ppi)
Document feeder	Optional
AC Line voltage	100-115V 50/60Hz (9195A), 220-240V 50Hz (9195AB)
Power consumption	40W maximum
Size	(345 by 480 by 94 mm) 13.6 by 18.9 by 3.7 in.
Weight	(7.5 kg) 16.5 lbs.
Drop-out color	Yellow

Specifications (cont.)

Inclination	Proper operation occurs when tilted less than five degrees from horizontal reference
Automatic exposure	Line art mode
Intensity control	255 levels in line art, dithered and grayscale modes
Contrast control	255 levels in dithered and grayscale modes
Other functions	Negative image, Mirror image, Downloadable dither and tone maps, Independent axis scaling, Automatic lamp calibration

Power Considerations

Use ScanJet Plus within the following power ranges:

- AC power: + or - 10% of the rated power
- Supply frequency: 60 Hz (115V) or 50 Hz (220/240V)

Caution

Install a voltage regulator or similar device if the power source is unstable.

Environmental Considerations

To keep ScanJet Plus operating at its best, observe the following environmental considerations:

- Use ScanJet Plus only within the following temperature and humidity ranges:
 - Ambient temperature: 5 °C - 40 °C (41 °F - 104 °F)
 - Ambient humidity: 10% - 90% (noncondensing)
- Keep ScanJet Plus out of direct sunlight.
- Place ScanJet Plus in locations free of constant vibrations.
- Place ScanJet Plus on a flat, even surface.

