

HEWLETT-PACKARD

Installing Your HP 260

The HP logo is rendered in a bold, sans-serif font. The letters 'H' and 'P' are positioned above the '260'. The entire logo is set against a background of diagonal black and white stripes that sweep across the page from the bottom-left to the top-right.

HP

260

HP 260 Computer Systems

INSTALLING YOUR HP 260

User's Manual



HERRENBERGER STRASSE 130, D-7030 BOEBLINGEN

Part No. 45261-90006
E0285

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**FEDERAL COMMUNICATION COMMISSION RADIO
FREQUENCY INTERFERENCE STATEMENT**

(for U.S.A only)

This equipment generates and radiates radio frequency energy. If not installed and used as directed in the system's documentation, the system may cause interference o radio communications.

The system 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. Should this occur, the user must at his own expense take whateer measurers may be required to correct the interference.

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PRINTING HISTORY

New editions are complete revisions of the manual. Update packages, which are issued between editions, contain additional and replacement pages to be merged into the manual by the customer. The dates on the title page change only when a new edition or a new update is published. No information is incorporated into a reprinting unless it appears as a prior update; the edition does not change when an update is incorporated.

The software code printed alongside the date indicates the version level of the software product at the time the manual or update was issued. Many product updates and fixes do not require manual changes and, conversely, manual corrections may be done without accompanying product changes. Therefore, do not expect a one to one correspondence between product updates and manual updates.

First Edition Feb 1985. B.07.00

LIST OF EFFECTIVE PAGES

The List of Effective Pages gives the date of the most recent version of each page in the manual. To verify that your manual contains the most current information, check the dates printed at the bottom of each page with those listed below. The date on the bottom of each page reflects the edition or subsequent update in which that page was printed.

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all	Feb 1985

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CONFIGURING AN ASI CARD A-1

Your new HP 260 (HP Product 45261D) has arrived. Here are some easy instructions to get it set up and running. This manual explains how to put your computer system together. Your customer-installable system may include the following:

HP 45261D System Processor Unit

HP Mini-rack Cabinet

HP 7941A Disc Drive (24Mb)

HP 7945A Disc Drive (55MB)

HP 7942A Disc Drive (24Mb) plus integrated Tape Drive

HP 7946A Disc Drive (55Mb) plus integrated Tape Drive

HP 9133D Disc Drive (15Mb) plus integrated Microfloppy

HP 9134D Disc Drive (15Mb)

HP 2622D Workstation (Display and Keyboard)

HP 45262D Video Workstation (Display and Keyboard)

HP 2225DX ThinkJet Printer

HP 2563A Printer

HP 2601A Printer

HP 2602A Printer

HP 2686A/AB LaserJet Printer

HP 2687A Laser Printer

HP 2932A Printer

HP 2933A Printer

HP 2934A Printer

HP 82905B Printer

HP 7470A Plotter

HP 7475A Plotter

HP 7550A Plotter

HP 262X Terminal

HP 45610A Terminal

HP 2392A Terminal

HP 3075A Data Capture Terminal

HP 3076A Data Capture Terminal

HP 3077A Data Capture Terminal

HP 3081A Data Capture Terminal with HP 92922A 4-Channel RS-232-C Adapter

HP 39800A Bar Code Reader

The HP 260 supports peripherals with an HP-IB interface. However, these peripherals (with the exception of the discs installed in the cabinet) must be installed by an HP Customer Engineer.

Introduction

The instructions in this manual are written for the first-time user. No special tools or knowledge of computers or electronics are required.

Section 2 of this manual contains the installation instructions for your HP 260 when it is not installed in a cabinet. If you are planning to install your HP 260 system in a cabinet, follow the installation procedure in Section 3. The installation instructions for workstations are contained in Section 4.

Before installing your system, it is important that you have read and complied with the instructions in the manual "Preparing for Your HP 260" (part number 45261-90003), which provides the information you need to verify that your office environment is suitable for your computer system.

WARNING

Failure to comply with site preparation procedures could result in:

- injury to the operator
- damage to the equipment
- loss of data
- loss of warranty

If you decide to add any component to your system, consult the manual "Preparing for Your HP 260" and your HP Customer Engineer for electrical grounding requirements.

INSTALLING THE HP 260 WITHOUT A CABINET

SECTION

2

If you ordered your HP 260 system without a cabinet (your order did not include option 011 or option 015), the instructions in this section guide you through the installation procedure. If you need additional information about a peripheral, refer to the individual product manuals for more detailed information.

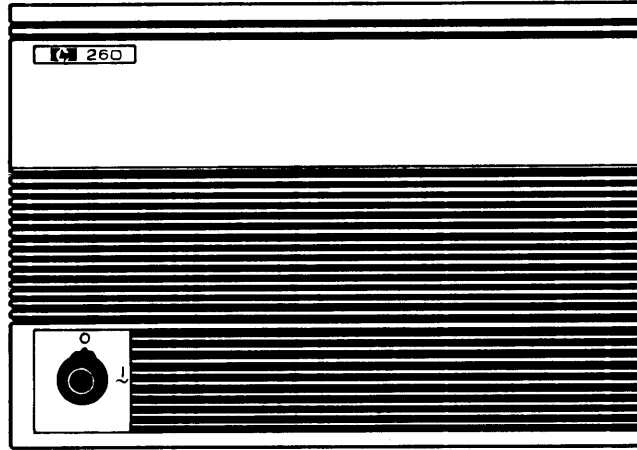
To install your system, begin with the SPU, then the disc(s), then the workstation(s), then the printer(s) and plotter(s).

Unpack each device as you are ready to install it. There are unpacking instructions with each carton. Make sure that the components you ordered are the ones you received. **SAVE** the packing list and the documentation.

Installing the computer without the cabinet

1. Unpack the HP 260 System Processing Unit (SPU).

- (a) Use the key to turn the SPU to the OFF (0) position.



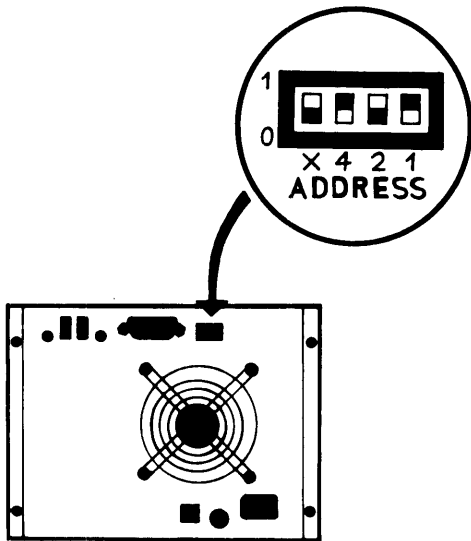
System Processing Unit

2. Unpack the HP 7942A, HP7946A or the HP 9133D Disc Drive.

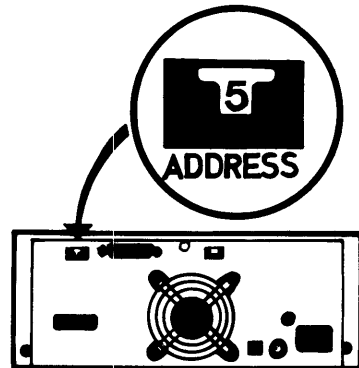
CAUTION

Your disc drive is a precision instrument. The shock which results from the disc drive being dropped as little as one inch may misalign the read/write heads and/or damage the disc. Damage may occur whether the disc drive is operating or not. Use care when picking up and setting down the disc drive.

- (a) Set the HP-IB switches on your first disc to 5. On the 7942A or the 7946A, do this by using a pencil to slide address switch 1 to the 1 position, and address switch 4 to the 1 position. On the 9133D do this by rotating the address wheel to 5.



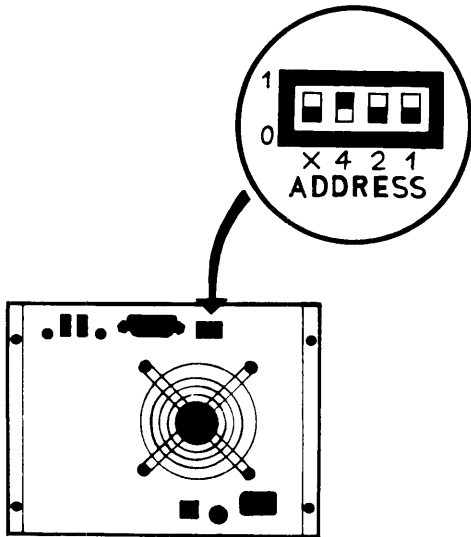
7942A/7946A



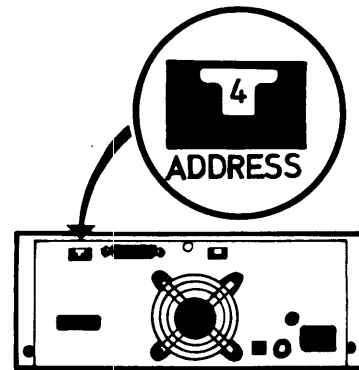
9133D

NOTE

If you have a second disc drive, set the HP-IB address switches on that disc to 4.



7942A/7946A



9133D

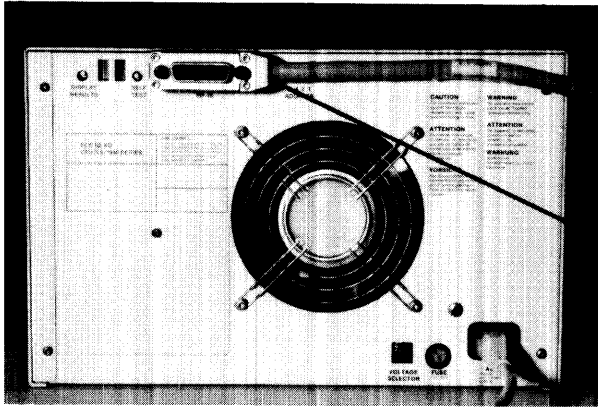
Installing the computer without the cabinet

For additional information on recommended HP-IB address settings, refer to Table 2-1.

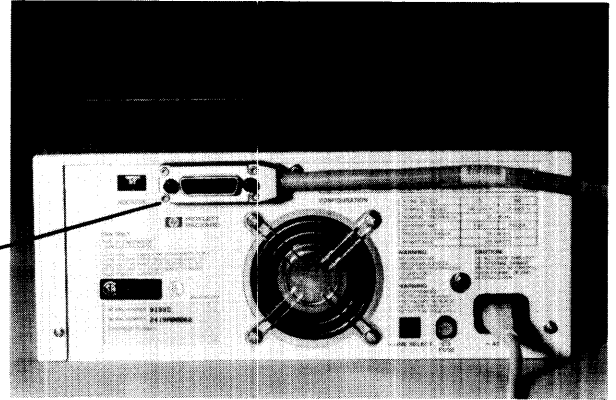
Table 2-1. HP-IB Address Settings

Device Description	HP-IB Address	X	4	2	1
First HP-IB printer (reserved)	0	0	0	0	0
Second HP-IB printer (recommended)	1	0	0	0	1
Fourth disc drive (recommended)	2	0	0	1	0
Third disc drive (recommended)	3	0	0	1	1
Second Disc Drive (recommended)	4	0	1	0	0
First Disc Drive (recommended)	5	0	1	0	1

3. Unpack your individual peripheral devices and place them in their planned locations. The power of each device must be turned OFF.
4. Connect the HP-IB cable(s):
 - (a) From the disc drive(s) ...

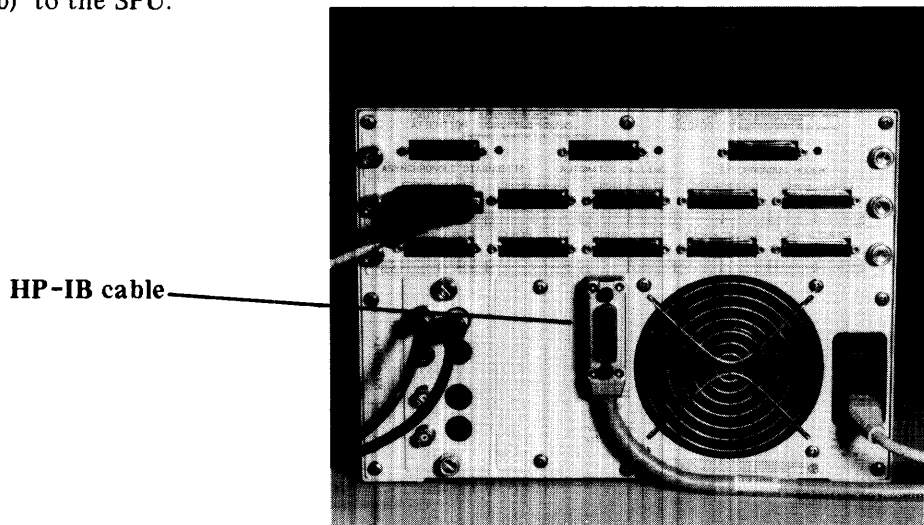


7942A/7946A



9133D

- (b) to the SPU.



System Processing Unit

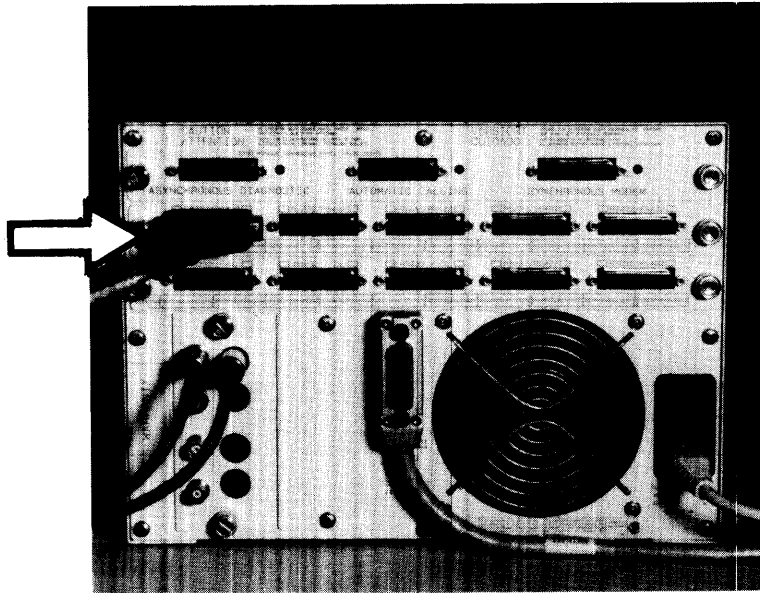
Installing the computer without the cabinet

- (c) Tighten the screws on each side of the HP-IB connector.
- (d) Place the dust cover over the HP-IB connector.

NOTE

If you have a second disc drive, connect the HP-IB cable to the HP-IB connector on the first disc drive and from there to the second disc drive.

5. The ASI interface (if installed) has been configured for five RS-232-C devices. If you have one or more devices with RS-422 or current loop connections, or you have an HP 82905B printer, refer to Appendix A to configure your ASI interface(s).
6. If you have peripheral devices or workstations that connect to the SPU with an RS-232-C, RS-422, or current loop connection, connect and tighten the screws of the cables:
 - (a) From the peripheral devices to ports 1-10 (beginning with port 1).



System Processing Unit

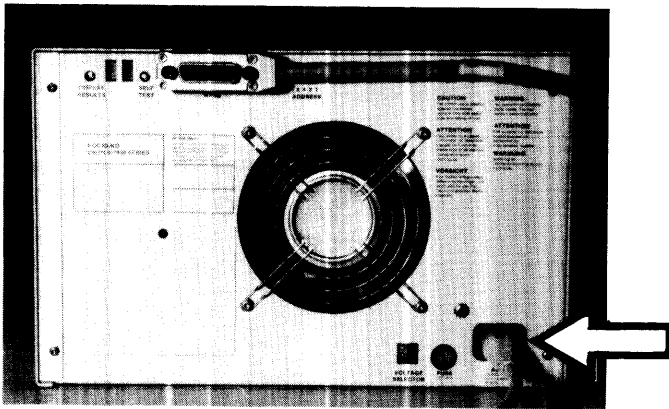
NOTE

For information on connecting and configuring your peripheral devices, refer to the appropriate peripheral manual.

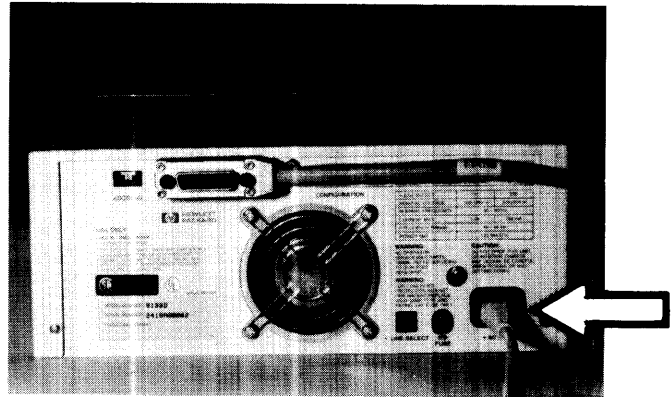
Installing the computer without the cabinet

7. Verify that all power switches are OFF. Connect the AC power cords.

(a) From the disc drive(s) to a grounded wall outlet.

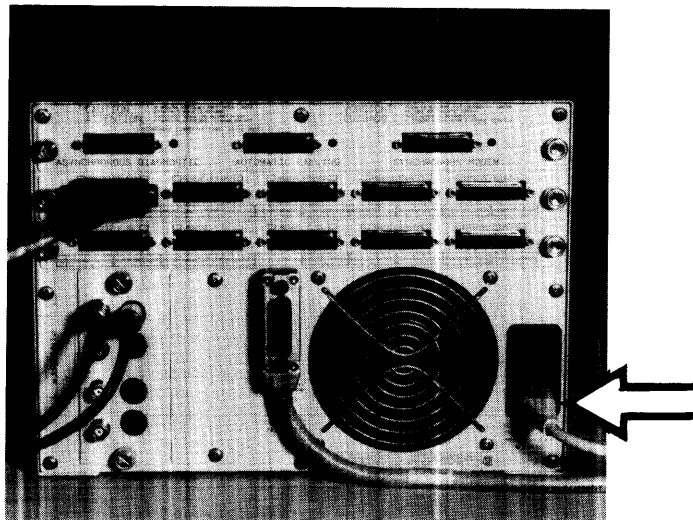


7942A/7946A



9133D

(b) From the SPU to a grounded wall outlet.



System Processing Unit

Review steps 4 through 6 to verify that all connections have been made and that all connectors are secure.

8. The 9133D is shipped with a card inside the microfloppy drive which protects the read/write head. Be sure to remove this card before you power on the system.

9. Plug the AC power cords from all peripheral devices into grounded wall outlets.

INSTALLING THE HP 260 IN ITS CABINET

SECTION

3

If you ordered your HP 260 system with a cabinet (your order included option 011 or option 015), the instructions in this section guide you through the installation procedure. If you need additional information about a peripheral, refer to the individual product manuals for more detailed information.

To install your system, begin with the SPU, then the disc(s), then the workstation(s), then the printer(s) and plotter(s).

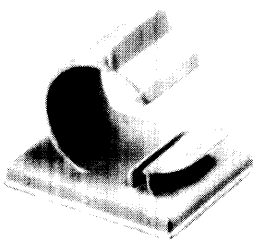
Unpack each device as you are ready to install it. There are unpacking instructions with each carton. Be sure the components you ordered are the ones that you received. **SAVE** the documentation and packing lists.

Installing the computer in the cabinet

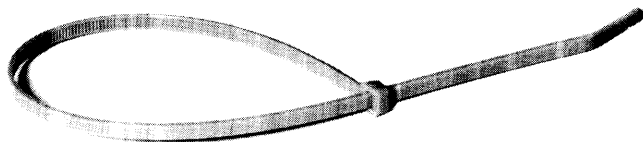
1. Unpack the HP 30463A cabinet.

Remove the following from the Miscellaneous Parts Kit:

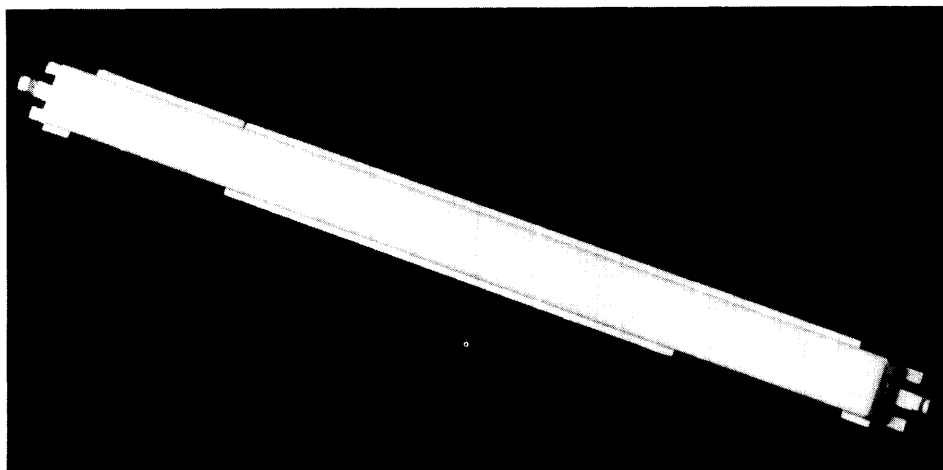
- Cable Clamp



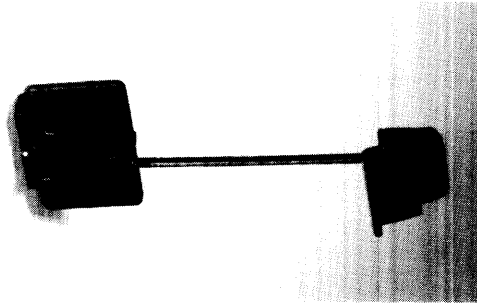
- Tie Wraps



- Filler Panels



- Module Locks



Leave the rest of the Miscellaneous Parts Kit intact and store it in a designated location so that it will be available to an HP Customer Engineer if a service call is ever necessary.

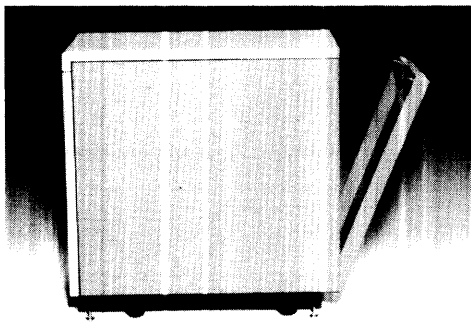
Installing the computer in the cabinet

2. Carefully place the cabinet in the planned location. To make the cabinet stable, manually lower the four legs by turning them clockwise.

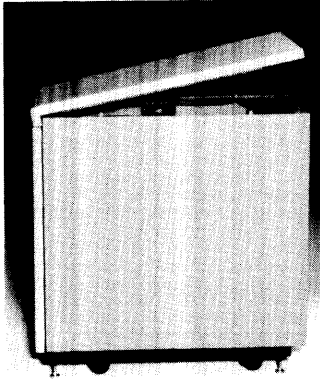
CAUTION

The cabinet is front-heavy. Because its legs are raised during moving, it can tip. Do NOT sit on the cabinet and do NOT push it from the side or the rear. Push it from the front. Keep the legs down when you are not moving the cabinet.

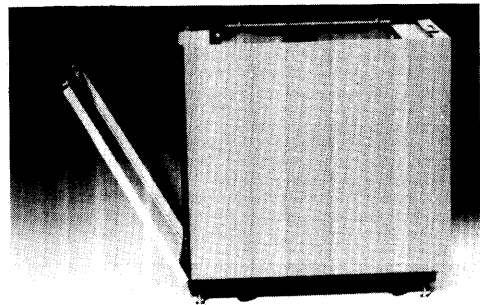
3. There is a grip on the back panel of the cabinet. Pull strongly on the grip to remove the back panel. Do the same with the top and the front panels.



Back Panel



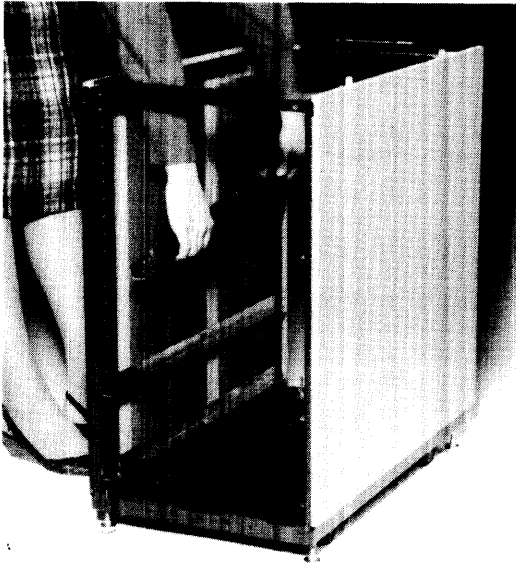
Top Panel



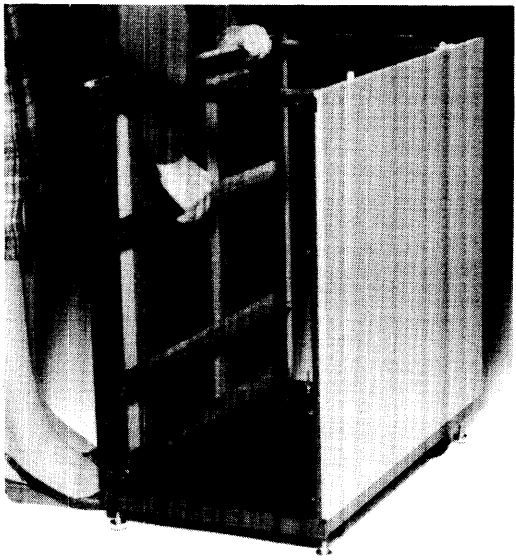
Front Panel

4. The rails inside the cabinet need to be positioned to accommodate your disc drive:

- If your disc drive is the 7942A or the 7946A, the first set of rails should be positioned in the 8th slot from the top of the cabinet. Install the second set of rails into the 17th slot.
- If your disc drive is the 9133D, the first set of rails should be positioned in the 5th slot from the top of the cabinet. Install the second set of rails into the 14th slot.



- Position the rail next to the correct slot.

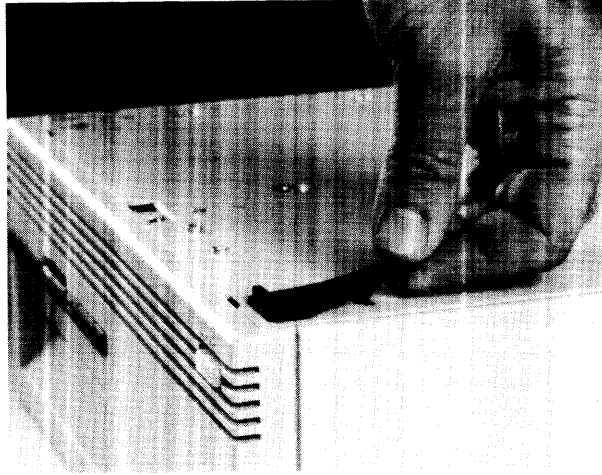


- Insert the rail in the slot. To lock the rail in position on the left side, slide the rail toward the back of the cabinet. To lock the rail in position on the right side, slide the rail toward the front of the cabinet.

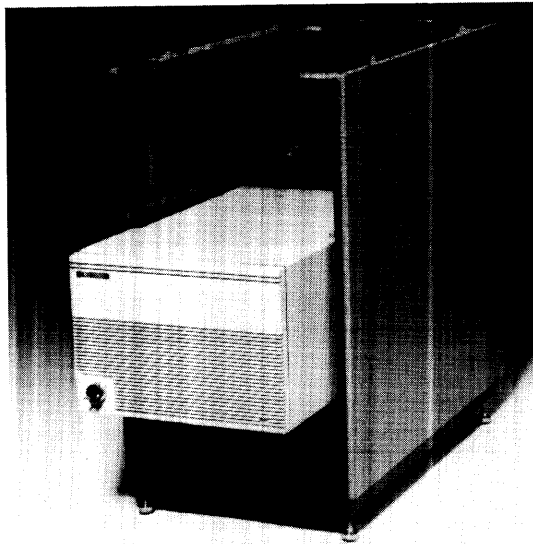
Installing the computer in the cabinet

5. Unpack the HP 260 System Processing Unit (SPU).

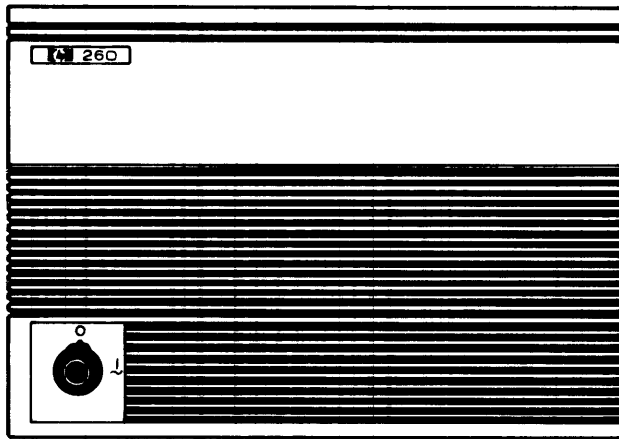
- (a) Place the SPU on its side and remove the two mounting feet from the bottom of the SPU by lifting the back of the mounting foot, sliding it backwards, and lifting it out. (The picture below shows a mounting foot being removed from a 7946A disc drive). Do not be concerned if some mounting feet break, they are not needed when the disc is installed in the cabinet. Also remove the adhesive pads on the bottom of the SPU.



- (b) Slide the SPU onto the second set of rails. Do NOT slide the SPU completely into the cabinet.



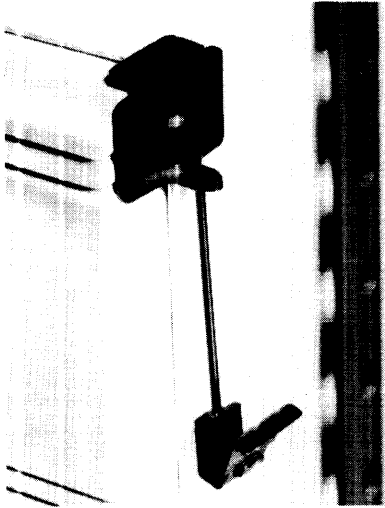
- (c) Use the key to turn the SPU to the OFF (0) position.



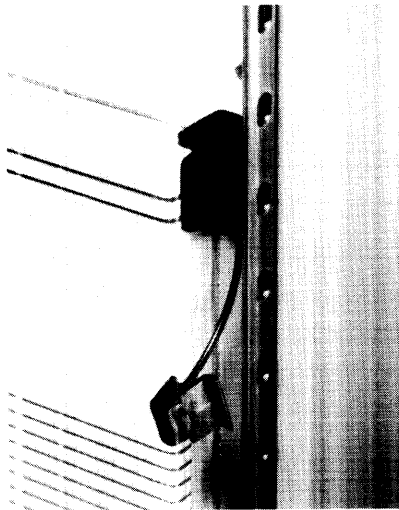
System Processing Unit

Installing the computer in the cabinet

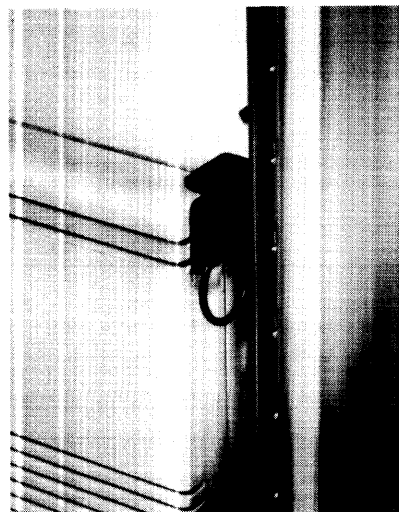
(d) Attach a module lock to each side of the SPU and to the frame in the following manner:



- Place a module lock in the groove on both top corners of the SPU.



- Slide the SPU into the frame so that the module lock touches the frame.



- Slide each clip into the lock as shown.

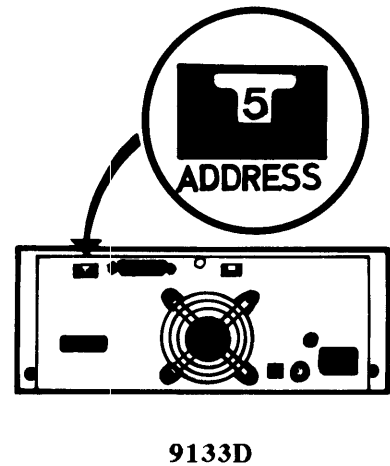
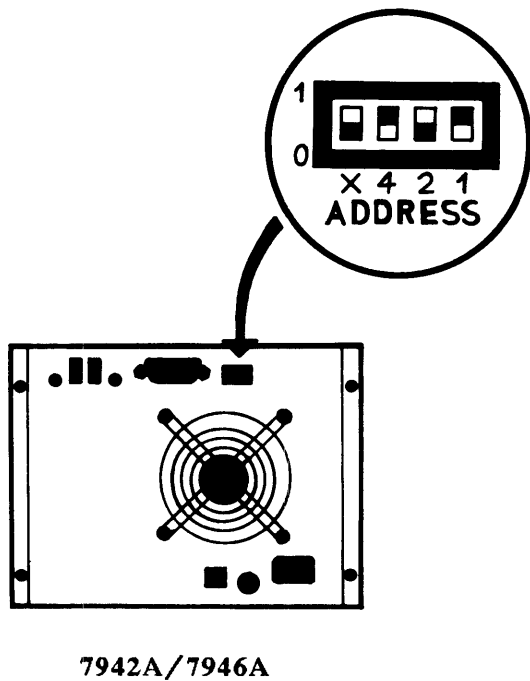
Verify that the module locks are properly installed by trying to slide the SPU in or out of the cabinet.

6. Unpack the HP7942A, HP7946A or the HP 9133D Disc Drive.

CAUTION

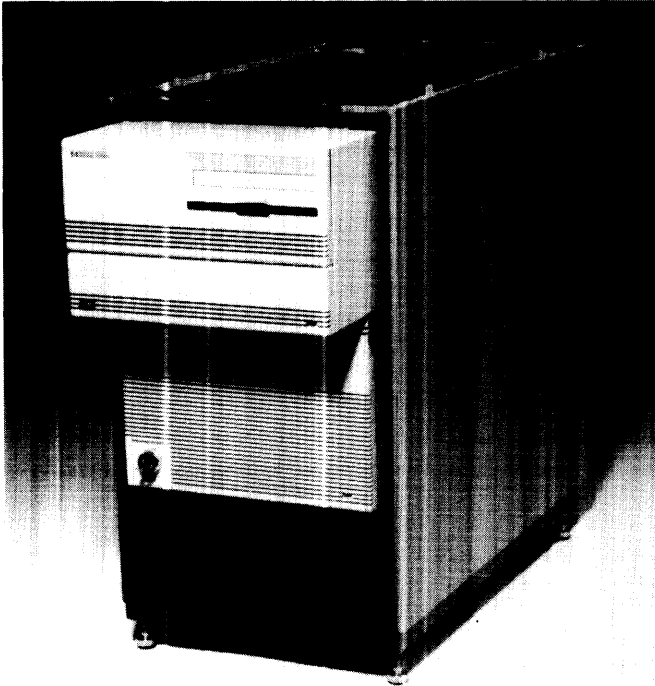
Your disc drive is a precision instrument. The shock which results from the disc drive being dropped as little as one inch may misalign the read/write heads and/or damage the disc. Damage may occur whether the disc drive is operating or not. Use care when picking up and setting down the disc drive.

- (a) Remove the disc drive's mounting feet and adhesive pads as you did with the SPU.
- (b) Set the HP-IB switches on your first disc to 5. On the 7942A or the 7946A, do this by using a pencil to slide address switch 1 to the 1 position, and address switch 4 to the 1 position. On the 9133D do this by rotating the address wheel to 5.

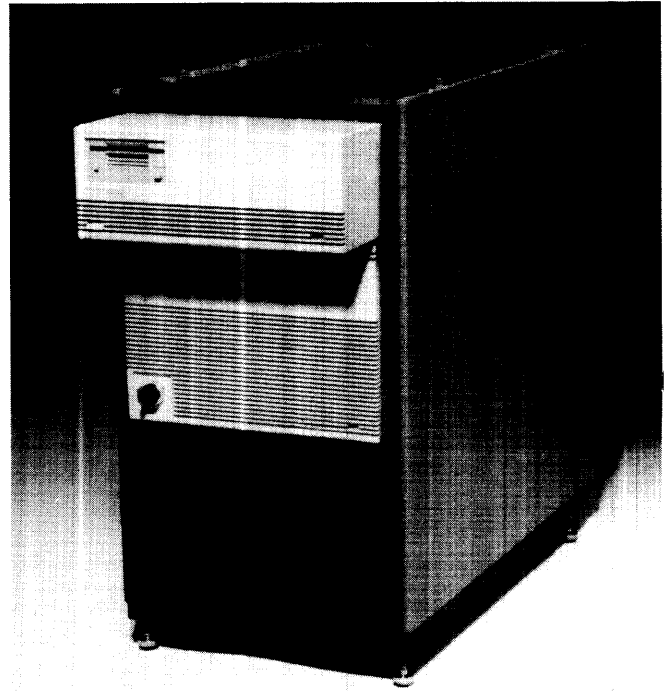


Installing the computer in the cabinet

- (c) Slide the disc drive onto the first set of rails. Do NOT slide the disc drive completely into the cabinet.



7942A/7946A

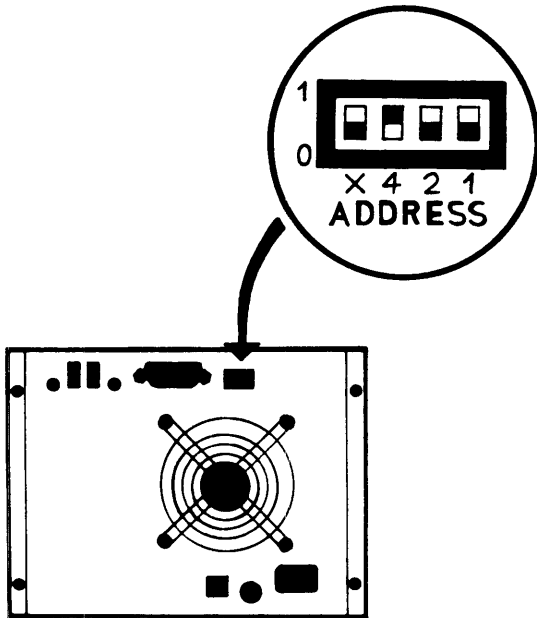


9133D

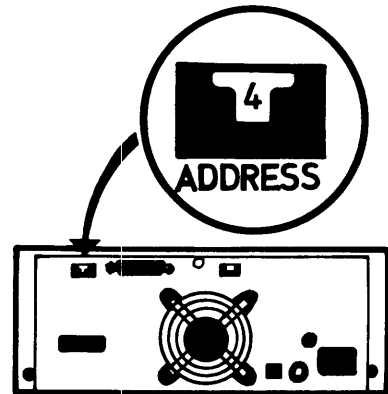
- (d) Attach the module locks as you did on the SPU. Slide the disc drive into the frame and lock the drive in position with the module locks.

NOTE

If you have a second disc drive, set the HP-IB address switches on that disc to 4, slide the disc into the bottom space of the cabinet, and attach the module locks. Remember that two 7942As or two 7946As with the SPU will not fit in the cabinet.



7942A/7946A



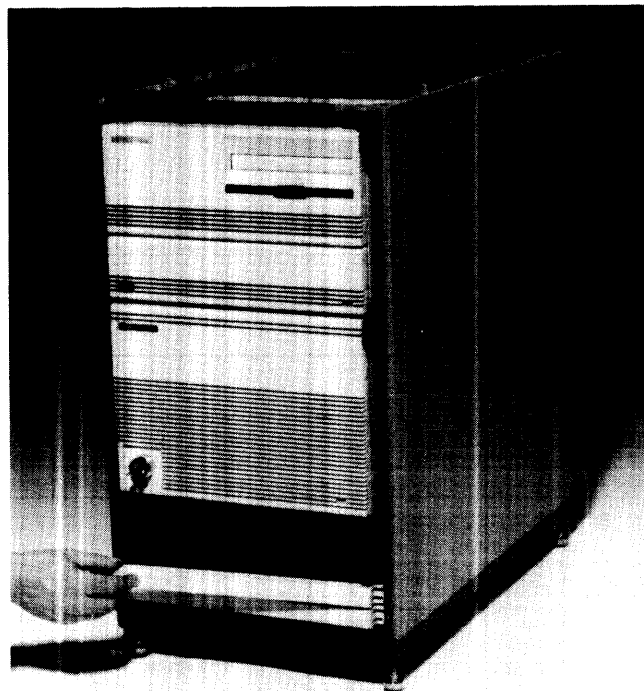
9133D

For additional information on recommended HP-IB address settings refer to Table 3-1.

Table 3-1. HP-IB Address Settings

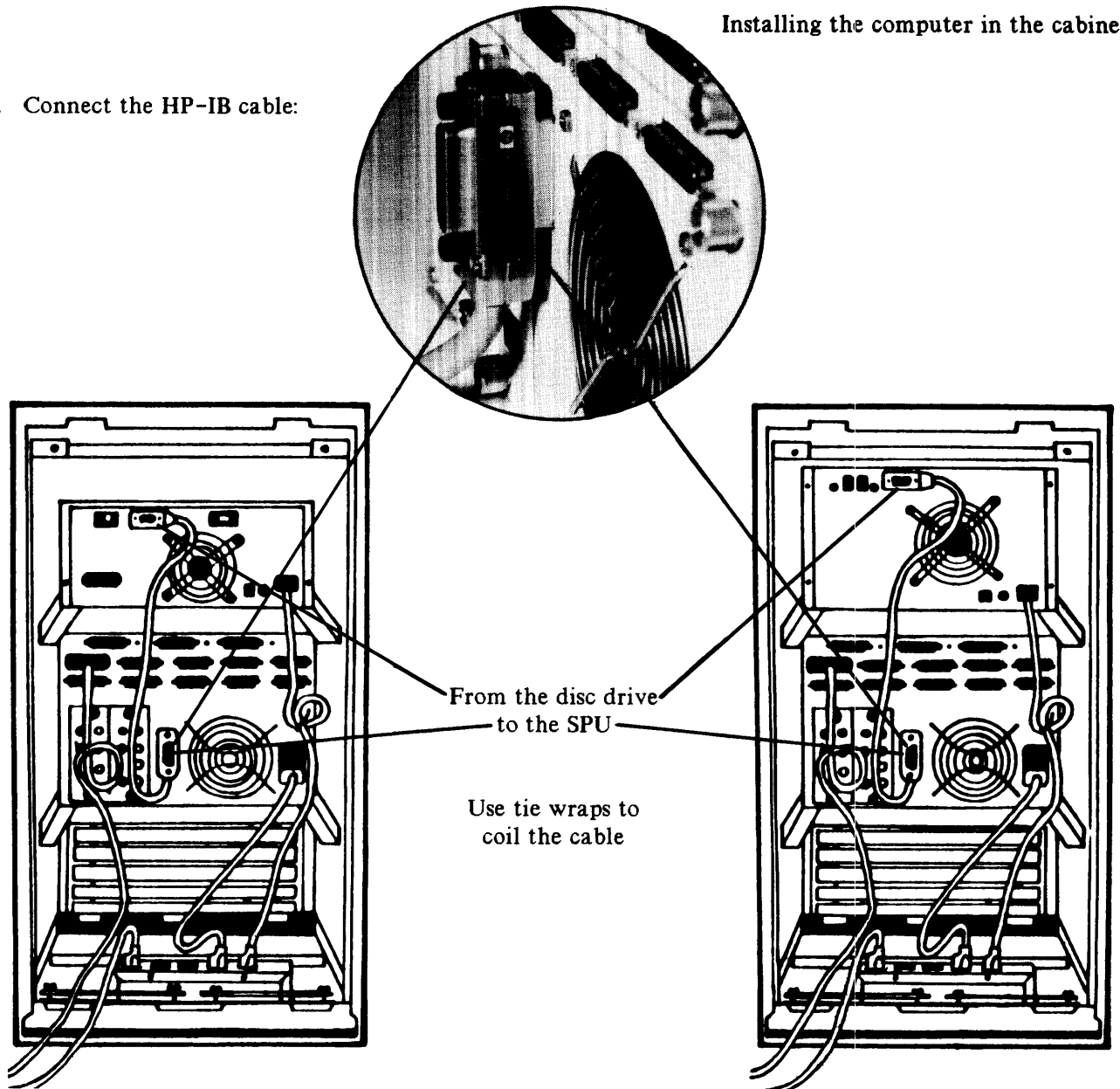
Device Description	HP-IB Address	X	4	2	1
First HP-IB printer (reserved)	0	0	0	0	0
Second HP-IB printer (recommended)	1	0	0	0	1
Fourth disc drive (recommended)	2	0	0	1	0
Third disc drive (recommended)	3	0	0	1	1
Second Disc Drive (recommended)	4	0	1	0	0
First Disc Drive (recommended)	5	0	1	0	1

7. If you have not placed a device on the bottom rails fill the empty space with filler panels. Work from the bottom to the top leaving the bottommost slot empty.



8. Unpack your individual peripheral devices and place them in their planned locations. The power of each device must be turned OFF.

9. Connect the HP-IB cable:



System with 9133D

System with 7942A/7946A

Tighten the screws on each side of the connector to secure it.

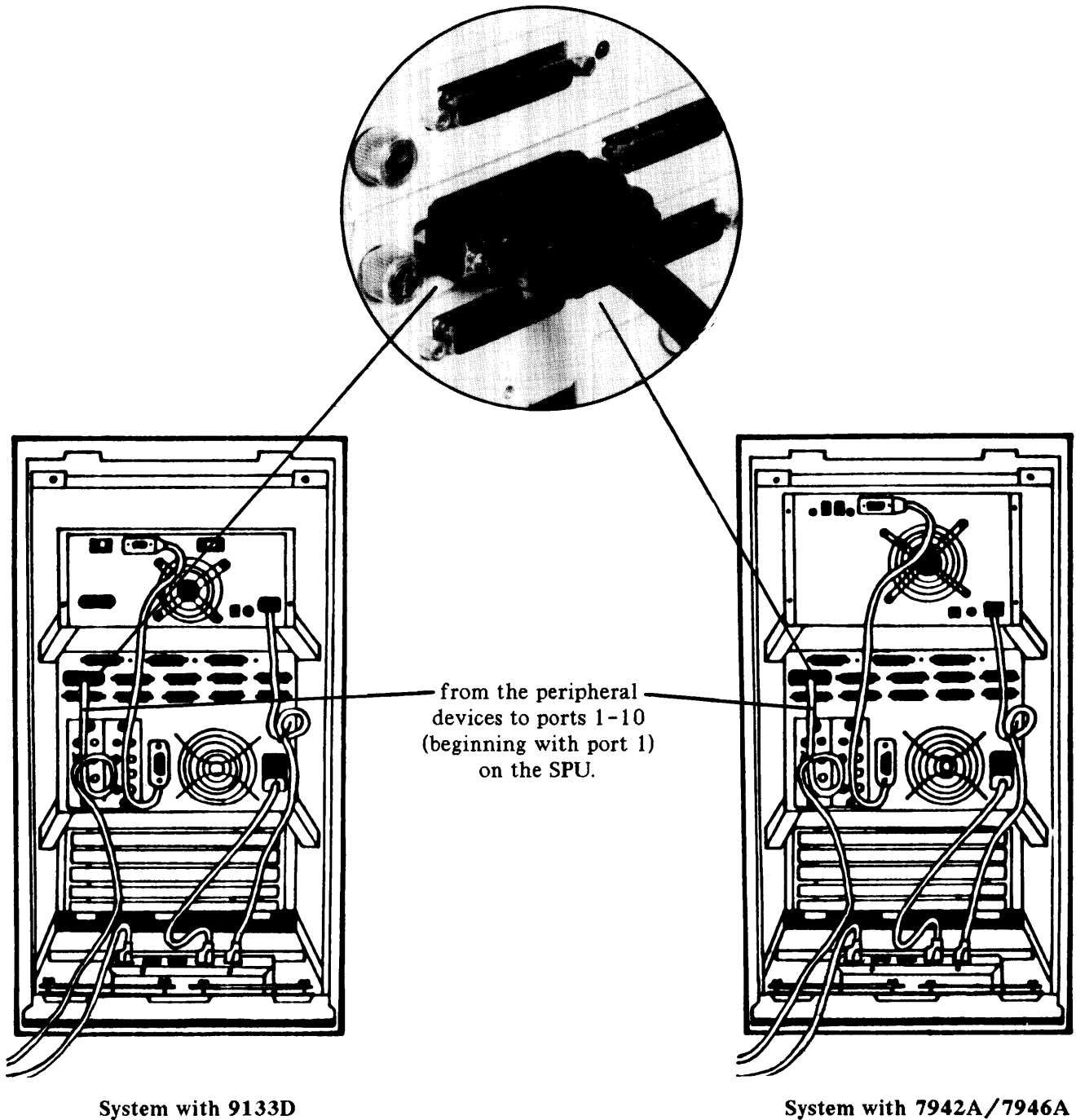
Place the dust cover over the HP-IB connector.

NOTE

If you have a second disc drive, connect the second HP-IB cable to the HP-IB connector on the first disc drive and from there to the second disc drive.

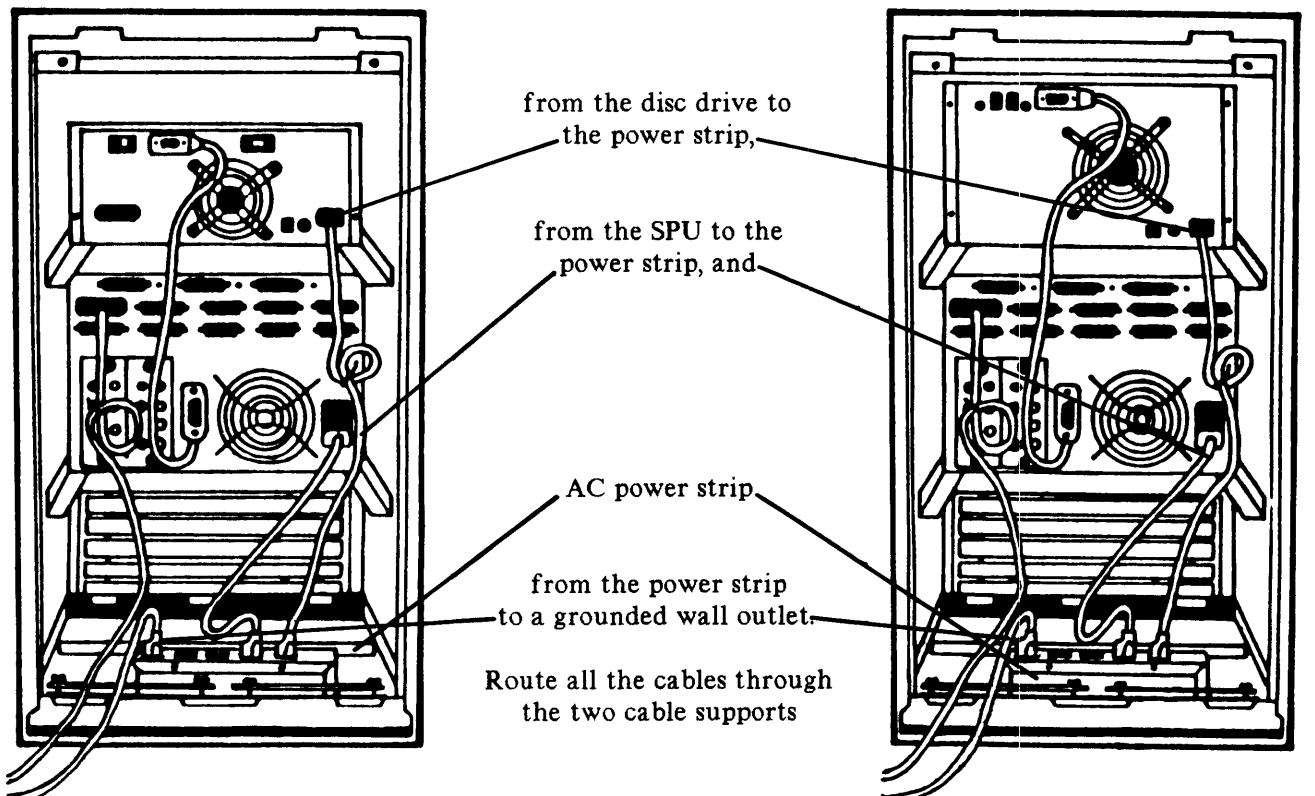
Installing the computer in the cabinet

10. The ASI interface (if installed) has been configured for five RS-232-C devices. If you have one or more devices with RS-422 or current loop connections, or you have an HP 82905B printer, refer to Appendix A to configure your ASI interface.
11. If you have peripheral devices or workstations that connect to the SPU with an RS-232-C, RS-422, or current loop connection, connect and tighten the screws of the cable connectors:



For information on connecting and configuring your peripheral devices, refer to the appropriate peripheral manual.

12. Verify that all power switches are OFF. Connect the AC power cords to the power strip in the cabinet:



System with 9133D

System with 7942A/7946A

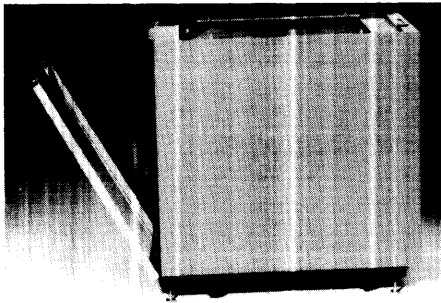
Review steps 9 through 11 to verify that all connectors have been made and that all connectors are secure.

Installing the computer in the cabinet

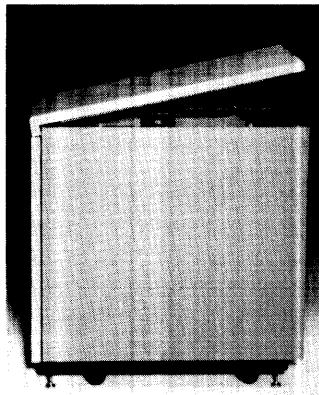
CAUTION

Do NOT move the system cabinet while the disc drive is turned on. Disc damage may result.

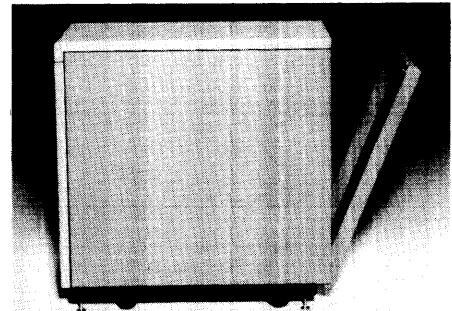
13. Carefully replace the front, top, and back panels of the system cabinet.



Front Panel



Top Panel



Back Panel

14. The 9133D is shipped with a card inside the microfloppy drive which protects the read/write head. Be sure to remove this card before you power on the system.
15. Plug the AC power cords from the peripheral devices which are not installed in the cabinet into grounded wall outlets.

ASSEMBLING AND INSTALLING THE WORKSTATIONS

SECTION

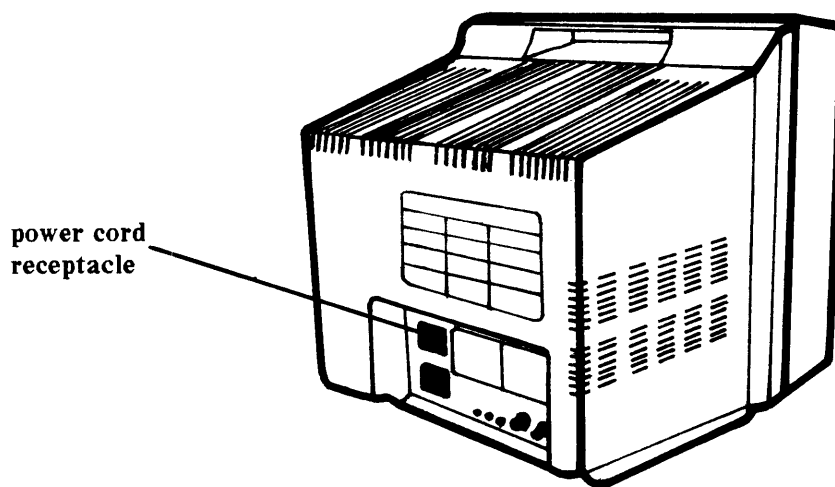
4

This section explains how to assemble and install your workstation. The first part of this section details the installation procedure for a video workstation. Following that is a description for installing and configuring a 2622D workstation.

When your hardware installation is complete, read the section "Where To Go Next" for a list of the manuals in the order you may want to use them.

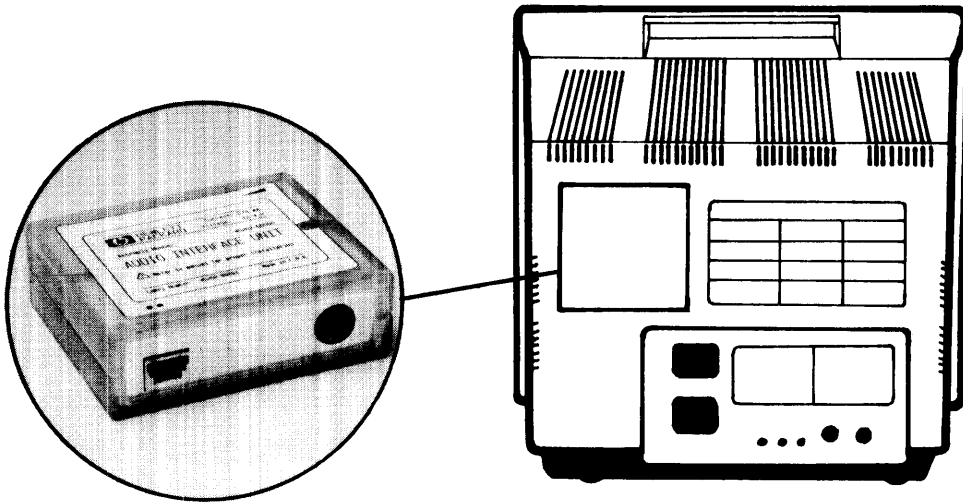
ASSEMBLING AND INSTALLING THE VIDEO WORKSTATION

1. Place the video monitor on a table or other work surface near the HP 260 system.
2. Be sure the monitor power switch is OFF ("out").
3. Connect the power cord to the power socket on the rear panel of the monitor.



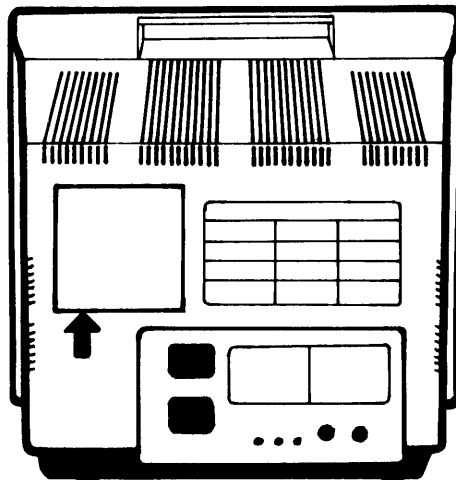
Video Monitor

4. To attach the audio interface unit to the video monitor, peel the paper off the back of the audio interface unit and press it against the rear panel of the monitor.



Video Monitor

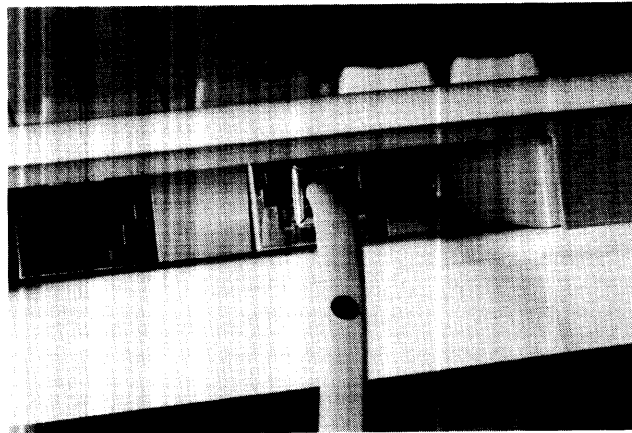
5. Install the keyboard cable connector with two dots in the audio interface receptacle on the audio interface unit.



Video Monitor

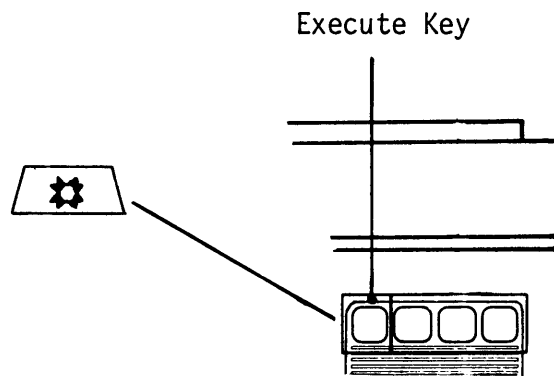
Installing the Workstations

6. Install the keyboard cable connector with one dot in the keyboard's receptacle (located on the right when viewing the back of the keyboard). The right keyboard receptacle is also coded with one dot.

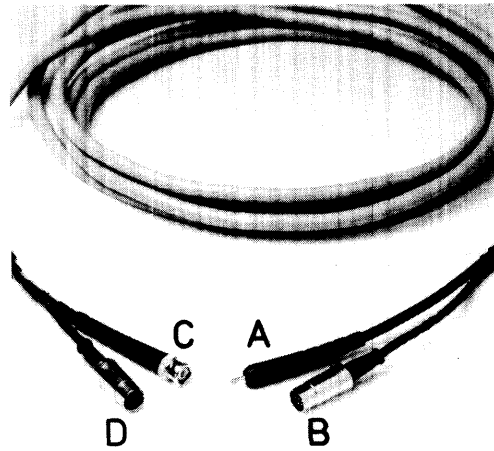


Video Workstation Keyboard

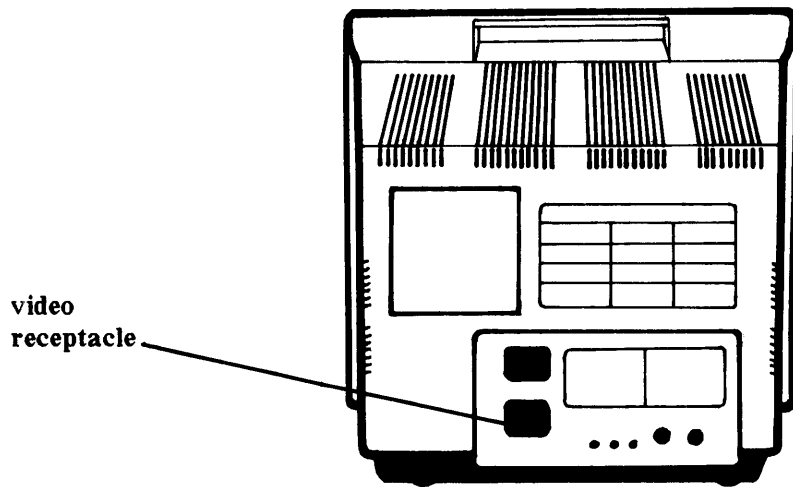
7. Affix the EXECUTE key label to the front of the EXECUTE key on the numeric key pad.



8. A special cable has been provided with the video monitor. This cable has four connectors and is used to connect the computer, the video monitor, and the audio interface unit.



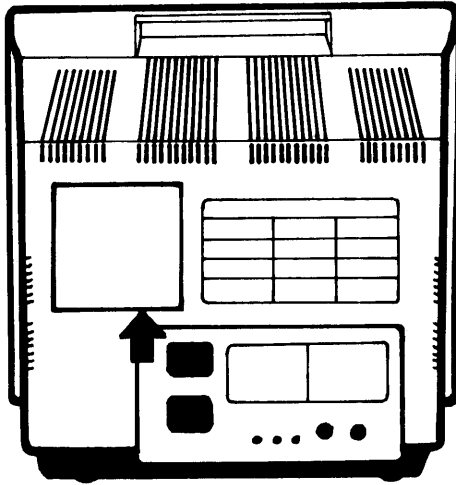
9. Plug connector A into the VIDEO IN jack on the back of the video monitor.



Video Monitor

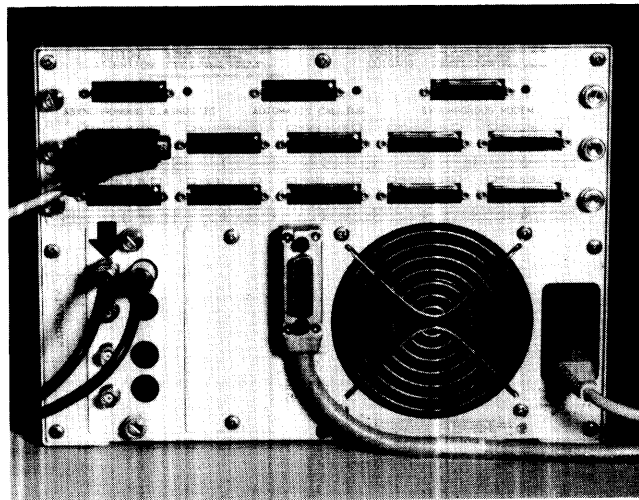
Installing the Workstations

10. Plug connector B into the audio interface unit.



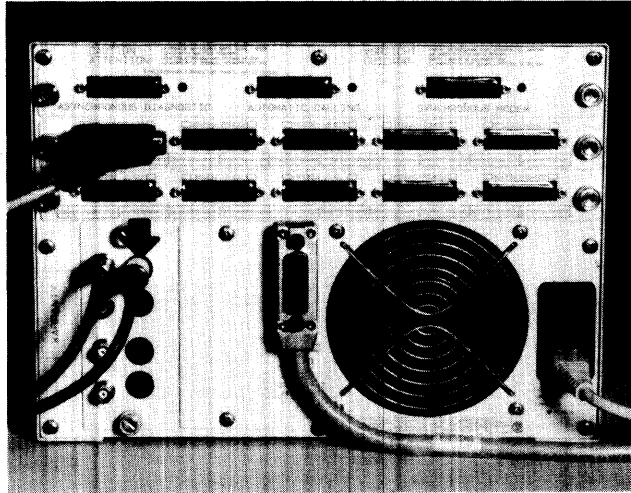
Video Monitor

11. Plug and lock connector C into the video receptacle (beginning with channel 1) on the back panel of the SPU.



Back Panel of SPU

12. Plug connector D into the back panel of the SPU.

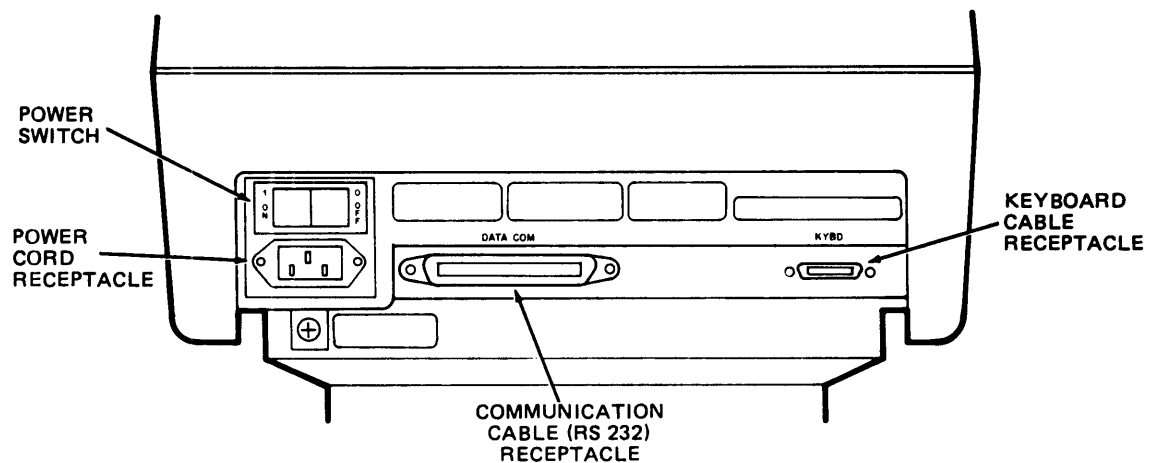


Back Panel of SPU

13. Plug the power cord of the video monitor into the wall outlet.
14. Turn the power switch of the monitor ON. After you turn on the power switch, notice that the power on indicator is illuminated.

ASSEMBLING AND INSTALLING THE 2622D WORKSTATION

1. Place the workstation on a table or other work surface near the HP 260 system.
2. If your workstation has a thermal printer option, refer to the manual "Operating and Managing Your HP 260" for instructions on loading the paper.
3. Plug the power cord into the receptacle on the lower left corner of the rear panel of the workstation.



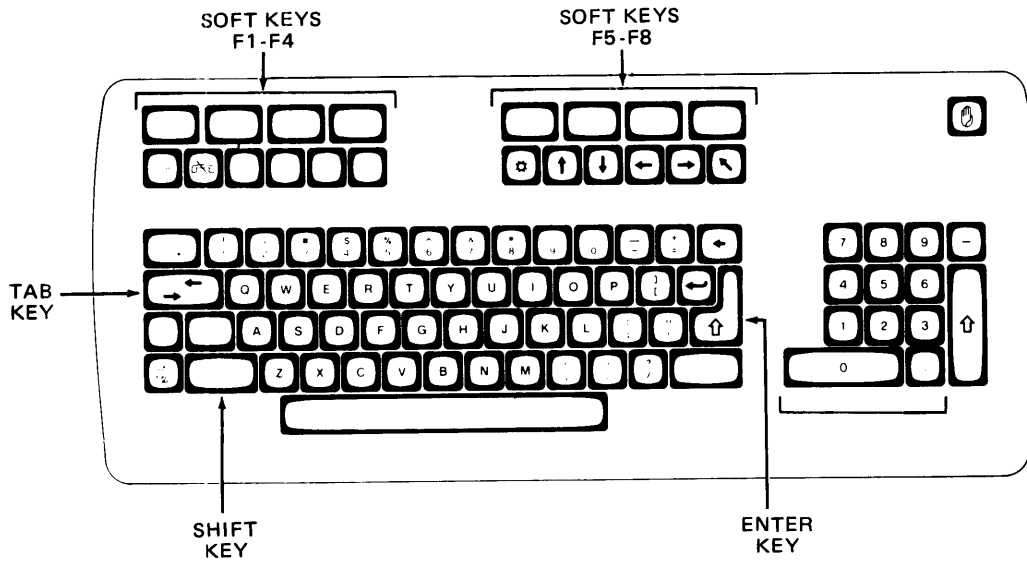
Rear Panel of the Display Unit

4. Be sure the workstation power switch is OFF.

5. Plug the power cord into the wall outlet.
6. Plug the cable connected to the keyboard into the receptacle labeled "KYBD." Place the cable cap over the channel on the keyboard to secure the connector.
7. Turn the power switch ON. The workstation automatically performs a Power-On Test. When you turn the power on, listen for a single beep and watch for the words "Power On" to appear in the lower left corner of the screen. The first few times you use the workstation, it might take several minutes to warm up; after regular use it will warm up in seconds. After the self-test, the workstation clears its screen.
8. After about three minutes, when the screen warms up, press the TEST key on the upper left section of the keyboard. The "Power On" message should reappear, a display pattern should appear on the screen, and the thermal printer (if you have one) should print a test pattern.
9. After the self-test, the screen will go blank again.

Setting 2622D Workstation Configuration

In this section, you will use the keys highlighted below to configure the workstation.



HP 2622D Softkey Labels and Keyboard

NOTE

The softkey labels on the display screen correspond to the softkeys on the top row of the keyboard.

1. Configure the 2622D workstation by pressing **F1** while holding the SHIFT key down. You may then select the options listed on the screen by pressing softkeys **F1**, **F2**, **F3**, and **F4**.

The following screen appears:

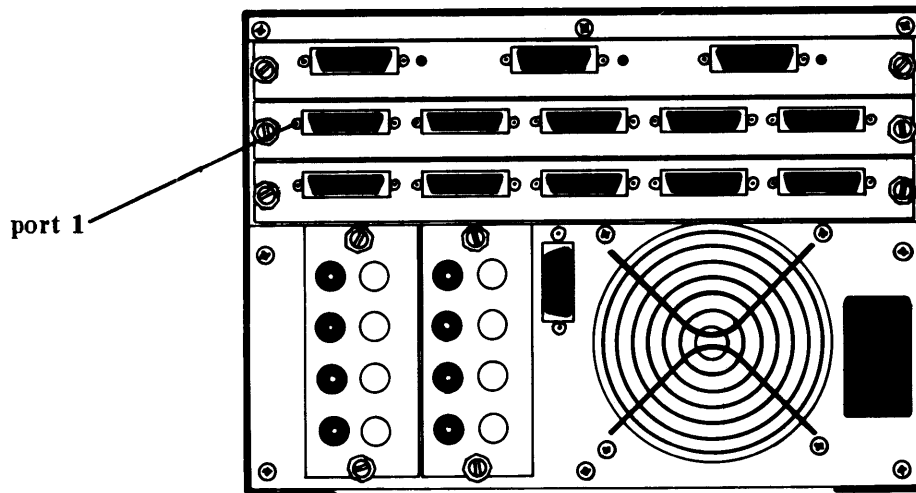
WORKSTATION CONFIGURATION							
Baud Rate 9600				Frame Rate 60			
Minus Key MINUS				Modem Key IGNORE			
Chars/Line 80							
SAVE CONFIG	NEXT CHOICE	PREVIOUS CHOICE	DEFAULT VALUES				

HP 2622D Configuration Screen

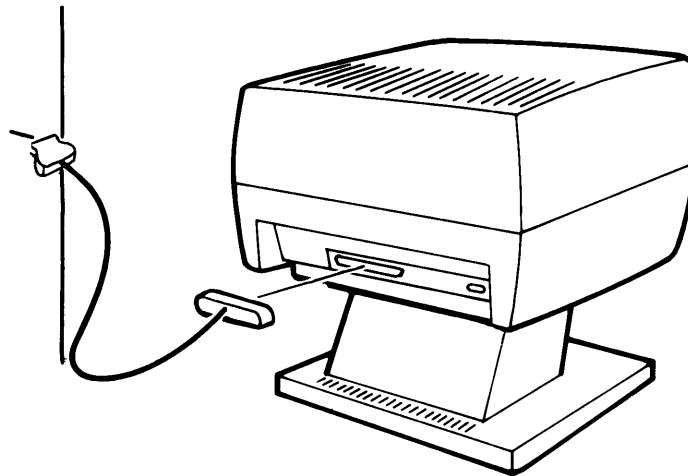
2. If the screen on your display is identical to the one pictured above, go to step 4. Note that the value in the Frame Rate field should be set to 60 Hz. (If nearby power equipment causes interference, set the Frame Rate field to 50 Hz).
3. If the screen on the display is not identical to the one above, follow these instructions.
 - a. Press the DEFAULT VALUES softkey (). This sets all option values to their preset values.
 - b. If the screen is still not identical to the one above, use the TAB key to position the cursor in the field that is wrong, then press NEXT CHOICE () or PREVIOUS CHOICE () until the correct values appear.
 - c. When all values are set as you want them, press SAVE CONFIG () to record all the changes.
4. Turn the workstation power switch OFF.

Installing the Workstations

5. Connect the narrow end of the RS-232-C cable to the port (beginning with port 1) on the system back panel.



6. Connect the wide end of the RS-232-C cable to the "Data Com" receptacle on the back panel of the workstation.



2622D Workstation

7. Turn the workstation power switch ON.

AFTER INSTALLING THE SYSTEM

SECTION

5

Now that you have installed your system hardware, it is time to get to know your HP 260. The manuals provided with the system contain valuable information about your computer. Below is a brief overview of the manuals in the order you may want to use them.

Operating and Managing Your HP 260 (part number 45261-90001) -- contains information about starting, using and managing your HP 260 system.

System Utilities Manual (part number 45260-90061) -- contains instructions for setting up system defaults with the Utilities Programs.

QUERY/260 Operator's Guide (part number 45251-90005) -- provides information about your HP 260 Data Base system and the data entry forms features of the HP 260.

Though you may not use this Installation manual in the near future, save it in case you add to or move your system.

CONFIGURING AN ASI CARD

APPENDIX

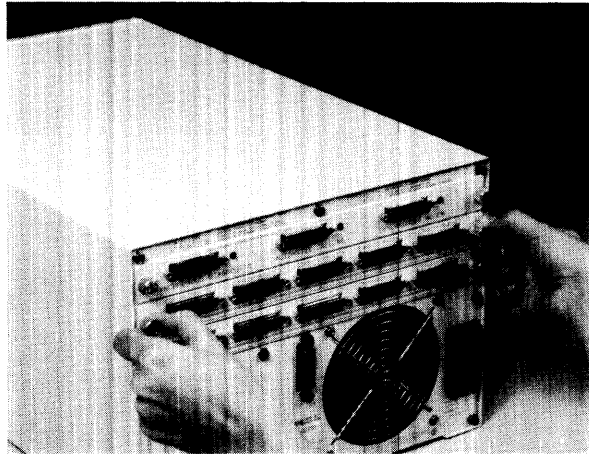
A

To set the switches of the ASI ports do the following:

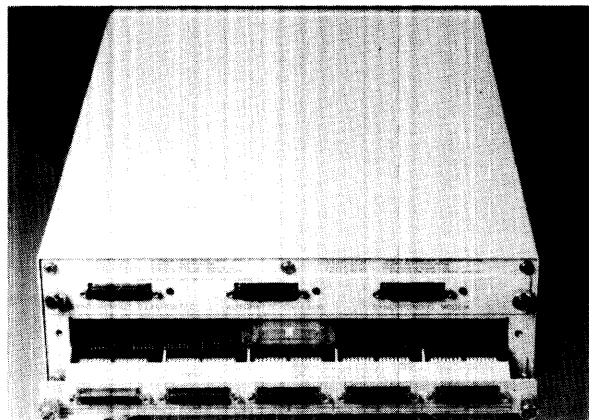
CAUTION

Ensure that the power is turned OFF (0) before setting the ASI port switches.

1. Turn the screws on each side of the ASI board counterclockwise.



2. Gently pull out the ASI board until you can see the switches. Do NOT pull the ASI card out completely. If this occurs, carefully replace the board before setting the switches.

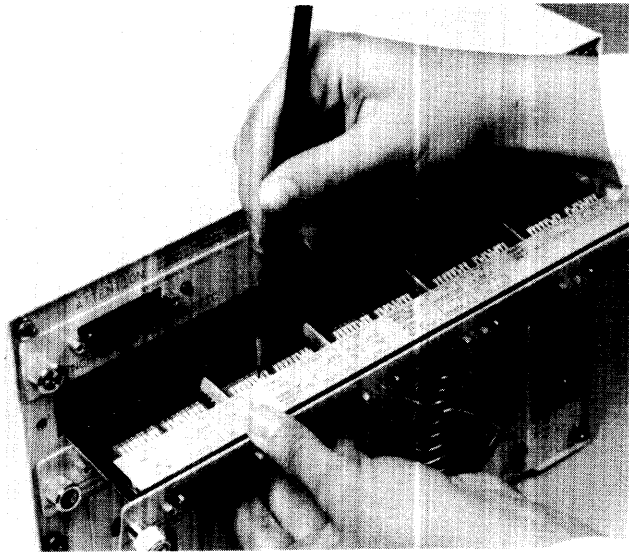


Configuring an ASI Card

3. Each port on an ASI card can be configured to handle different communications protocols and is labeled according to the type of protocol it provides ("RS-232", "RS-422", or "CL" for current loop). A port is configured by setting several switches on the card.

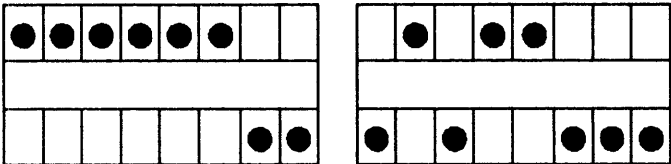
Two types of ASI cards are available: one on which all five ports are RS232/RS422 ports and one on which three ports are RS232/current loop ports, and the other two ports are RS232/RS422 ports.

Using a pencil (as shown in the following illustration) set the switches for each ASI port to specify: RS232 communication, RS422 communication, Currently Loop communication, HP 82905B printer connection or unused ASI port. The illustration titled "ASI Switch Settings" shows the switch positions for each possible port configuration.

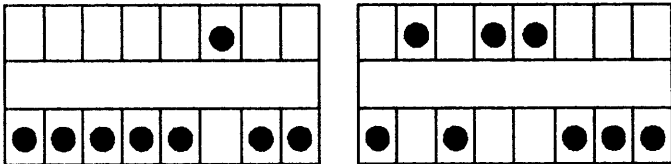


Configuring an ASI card

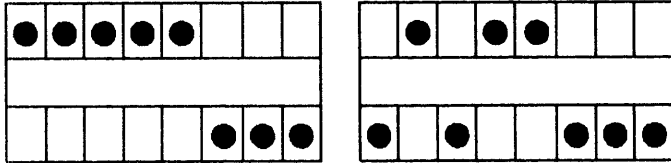
ASI Switch Settings



Current Loop

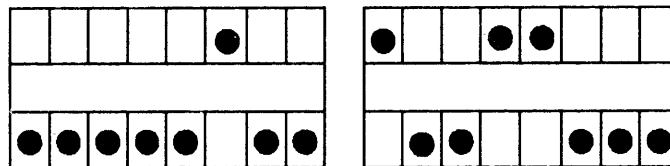


RS-232-C

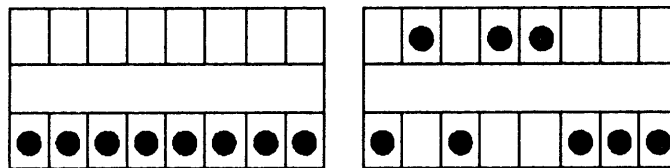


RS-422

ASI Switch Settings (continued)



82905B Printer Switch Setting



Unused Port Switch Setting

