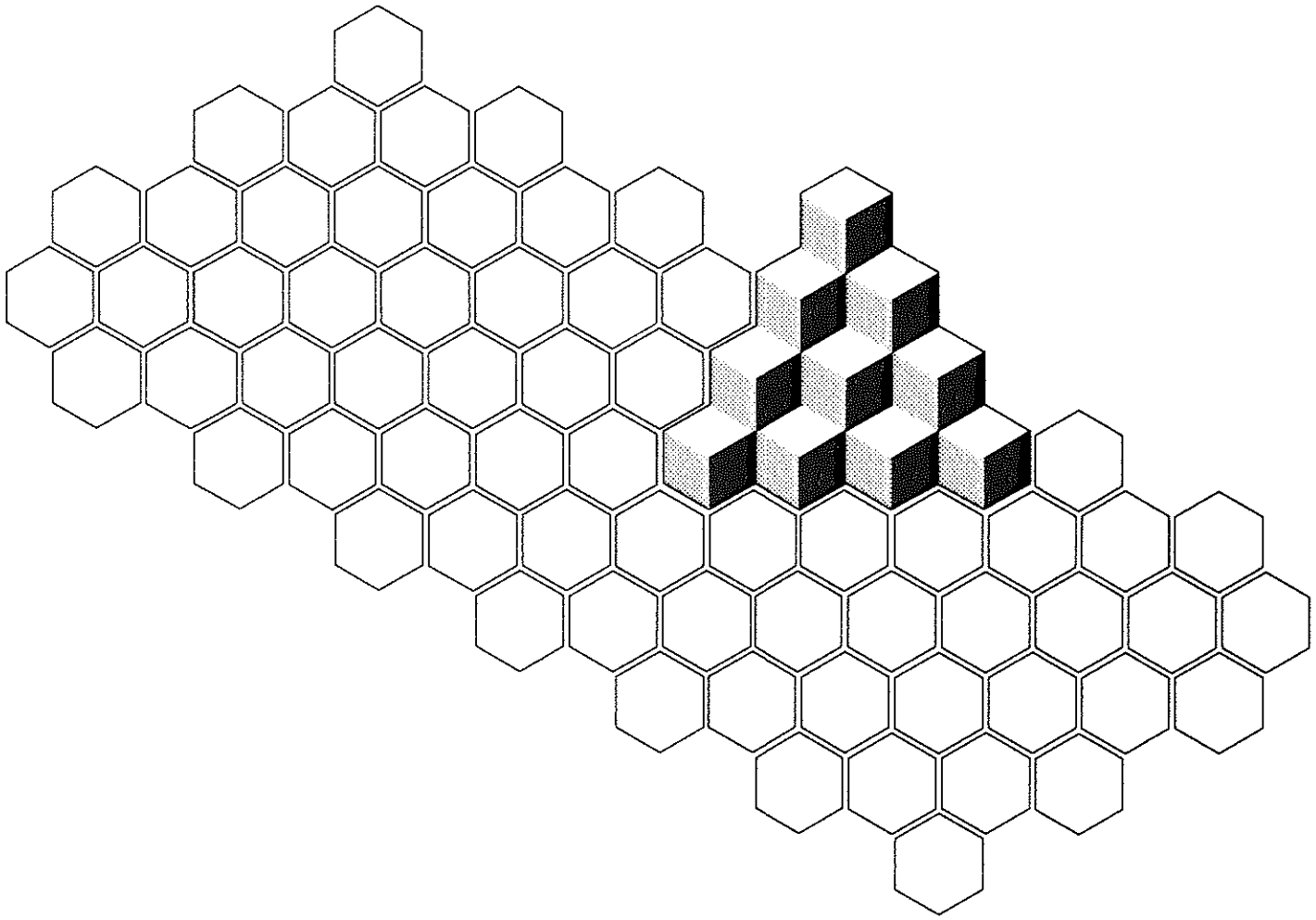
SA21-9804-0

Installing



IBM 9332 Disk Unit
Models 200/400

Federal Communications Commission (FCC) Statement

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction 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.

First Edition (June 1986)

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Who should use this manual ...

This manual is for customer personnel who install the IBM 9332 Disk Unit.

How this manual is arranged ...

This manual contains:

- Six chapters with procedures to:
  - Install a 9332 in a rack
  - Install a stand-alone 9332
  - Prepare the 9332 for operation
  - Move a rack with a 9332 installed
  - Move a stand-alone 9332
  - Remove a 9332 from a rack
- An appendix that shows an example of connecting the signal cables
- A glossary of terms and abbreviations used in this manual
- An index of key words to procedures in this manual

How this manual is used ...

This manual is to be used with your system setup or system improvement instructions. If you have not been directed to this manual from a system-instructed procedure, go to your system setup or system improvement instructions for installing a 9332 You will be directed by the system setup or system improvement instructions when to return to this manual. When performing a procedure in this manual, continue to perform each step until this manual tells you to return to the system setup or system improvement instructions.

If you need more information ...

See the following 9332 manuals for more information:

- *Analyzing Problems*, SA21-9837, which contains procedures to analyze 9332 Disk Unit problems.
- *Reference Code Guide*, SA21-9836, which contains descriptions of the 9332 reference codes and is used to identify field-replaceable units.
- *Service Guide*, SY31-9026, which contains procedures to service the 9332.

Safety Notices in This Manual

Cautions Notices

A caution notice calls attention to an action that could cause harm to persons. Caution notices appear in the following procedures:

- "Installing the Disk Unit" on page 1-15
- "Installing the Cover Assembly" on page 2-5
- "Moving the Disk Unit" on page 5-7
- "Removing the Disk Unit" on page 6-9

Warning Notices

A warning notice calls attention to an action that could cause damage to a program, device, system, or data. A warning notice appears in the Federal Communications Commission (FCC) Statement on page ii. Warning notices also appear in the following procedures:

- "Installing the Rails" on pages 1-12 and 1-14
- "Unlocking the Shock Mounts" on pages 1-17, 2-7, and 3-2
- "Locking the Shock Mounts" on pages 4-2, 5-5, and 6-6

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1. Installing a 9332 in a Rack

Arranging the Parts for Installation

This manual is to be used with your system setup or system upgrade instructions. If you have not been directed to this manual from a system-instructed procedure, go to your system setup or system upgrade instructions for installing a 9332. You will be directed by the system setup or system upgrade instructions when to return to this manual. When performing a procedure in this manual, continue to perform each step until this manual tells you to return to the system setup or system upgrade instructions.

1

Check to see that you have received these parts.

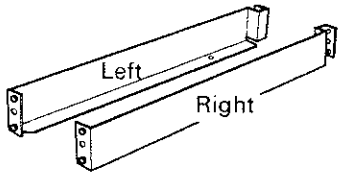
- **Screws (6)**
- **Rails (2)**
- **Nut clips (2)**
- **Brackets (2)**
- **Tightening rod**
- **Disk unit**
- **Front cover**
- **Power cord**
- **Signal cable**
- **Decals[1]**
- **9332 manuals**

Note: See "If you need more information ..." on page iv for descriptions of these manuals.

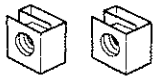
If any parts are missing or damaged, contact the representative from whom you ordered the 9332.

[1] **These parts may already be installed on the 9332.**

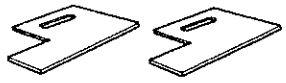
Screws (6)



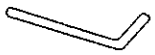
Rails (2)



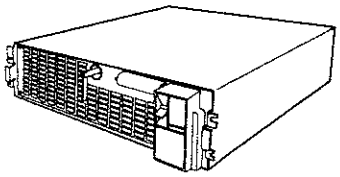
Nut Clips (2)



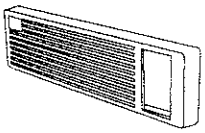
Brackets (2)



Tightening Rod



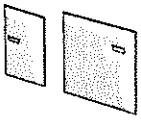
Disk Unit



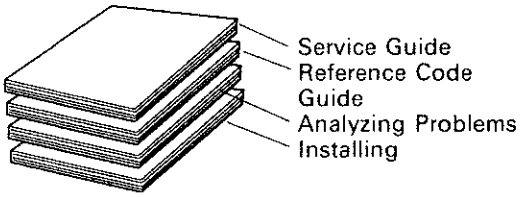
Front Cover

Power Cord

Signal Cable



Decals [1]



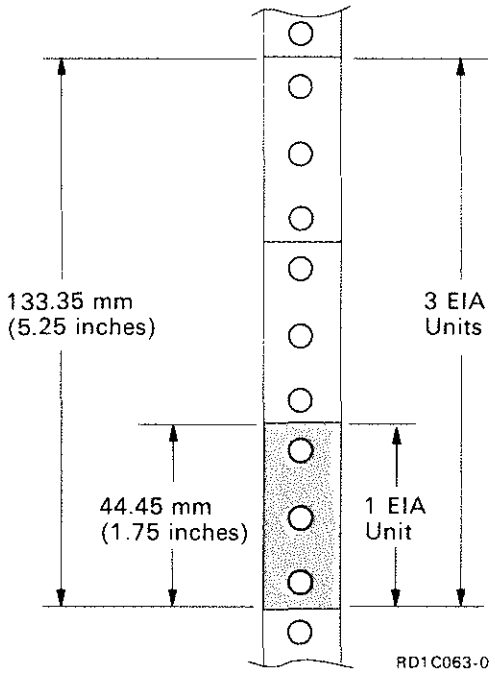
9332 Manuals

RD1C003-0

1. Installing a 9332 in a Rack

Installing the Rails

You will need a vertical space of 133.35 millimeters or three EIA units (5.25 inches) to mount the 9332 in a rack.



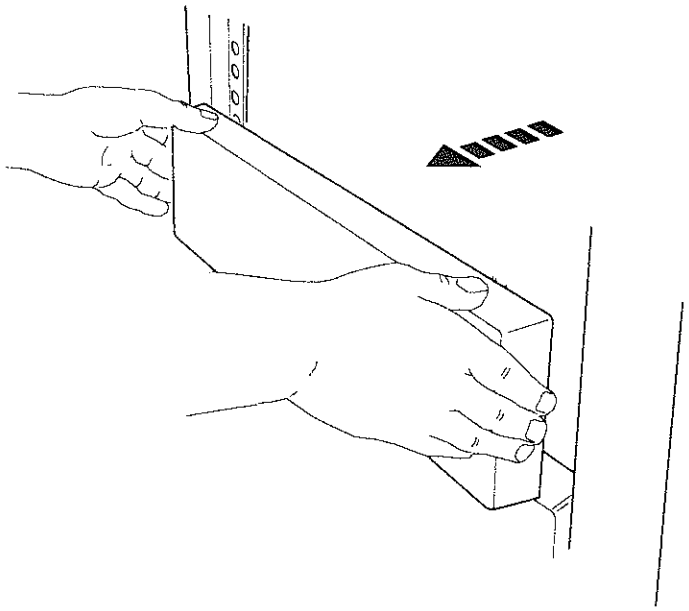
***Note:** Ensure that the system and the rack are powered off before performing this procedure. Refer to system and rack procedures.*

1

Remove the rack filler panel.

Note: See your system upgrade instructions for the location of the rack filler panel.

- **Go to the front of the rack.**
- **Find the filler panel(s) where you will install the rails.**
- **Grip the filler panel and pull the filler panel toward you.**



RD1C064-0

Installing the Rails (Continued)

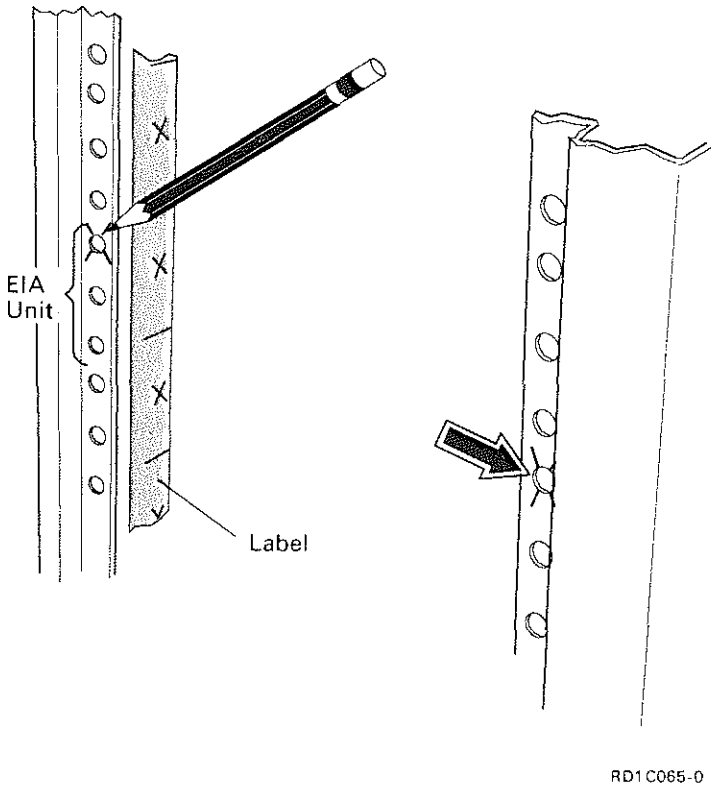
2

Mark the place on the front of the rack where you will install the rails.

Notes:

1. *See your system upgrade instructions for which rack EIA unit number to mark.*
2. *See the label on the side of the rack for the location of the EIA unit.*

- **On the left side, mark the top hole of the EIA unit with a pencil.**
- **On the right side, mark the top hole of the same EIA unit.**

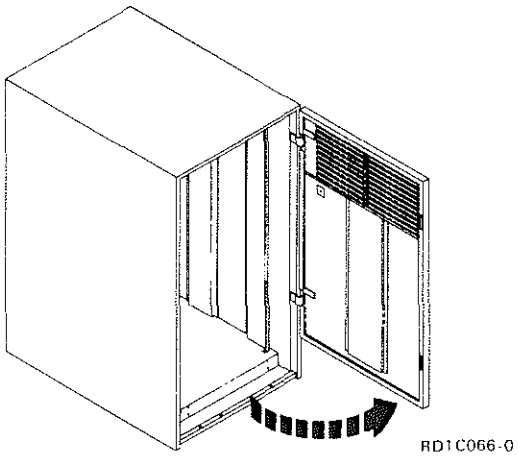


3

Open the rear door of the rack.

- **Place your fingers between the bottom *left-hand corner* of the rear door and the rack.**
- **Pull the rear door toward you.**

Note: There will be some resistance, so pull hard.



Installing the Rails (Continued)

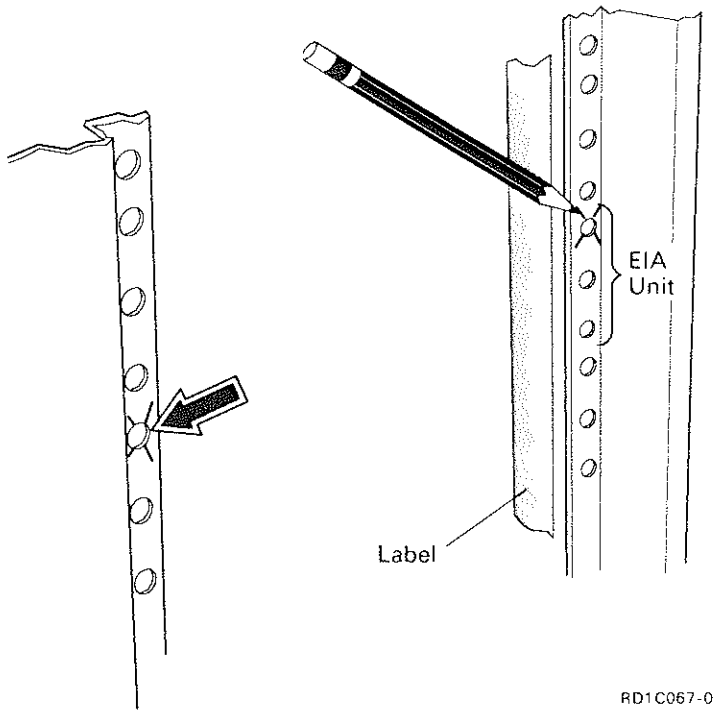
4

Mark the place on the rear of the rack where you will install the rails.

Notes:

1. *Use the same EIA unit number that you marked on the front.*
2. *See the label on the side of the rack for the location of the EIA unit.*

- **On the left side, mark the top hole of the EIA unit with a pencil.**
- **On the right side, mark the top hole of the same EIA unit.**



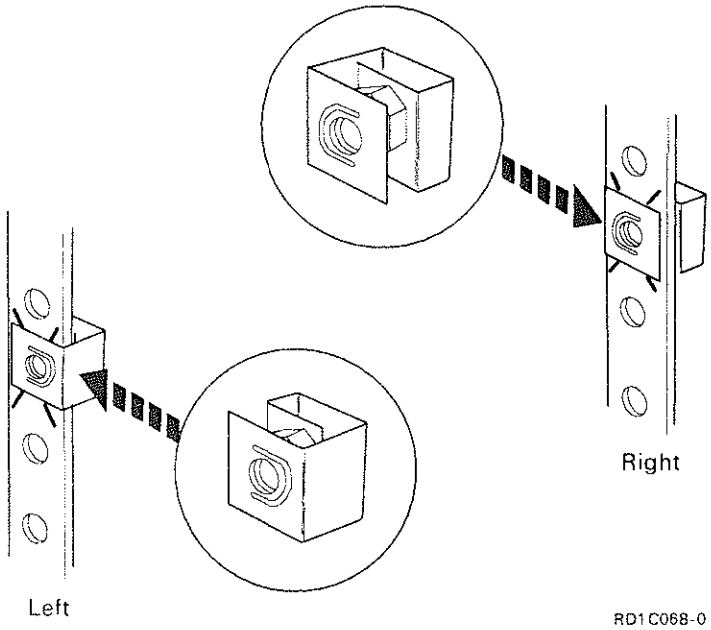
5

Install the two nut clips.

- **Go to the rear of the rack.**
- **On the left side, attach a nut clip over the EIA unit hole that you marked.**

  Note: Ensure that the threaded nut is behind the frame as you face the rear.

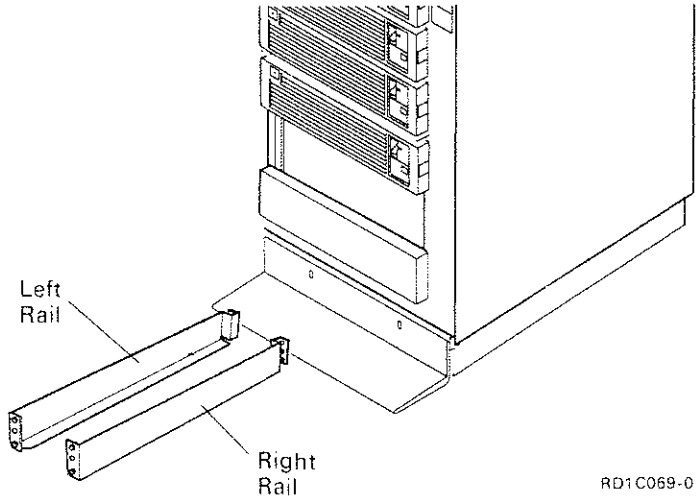
- **On the right side, attach a nut clip over the other EIA unit hole that you marked.**



6

Position the two rails.

- **Get the rails and go to the front of the rack.**
- **Place the rails so that the U-shaped ends point to the rear.**



Installing the Rails (Continued)

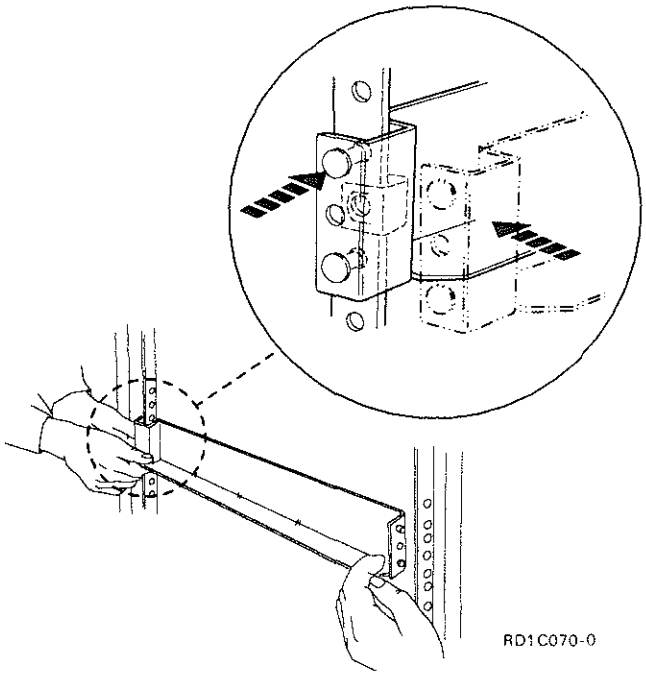
Note: The remaining steps require two people. Read these steps before doing them.

7

Install the rear portion of the *right* rail.

Note: One person should stand in front of the rack, another person at the rear of the rack.

- **Place the U-shaped end around the rear frame.**
- **Insert the support pins that stick out from the rail so that the nut clip is between the two pins.**

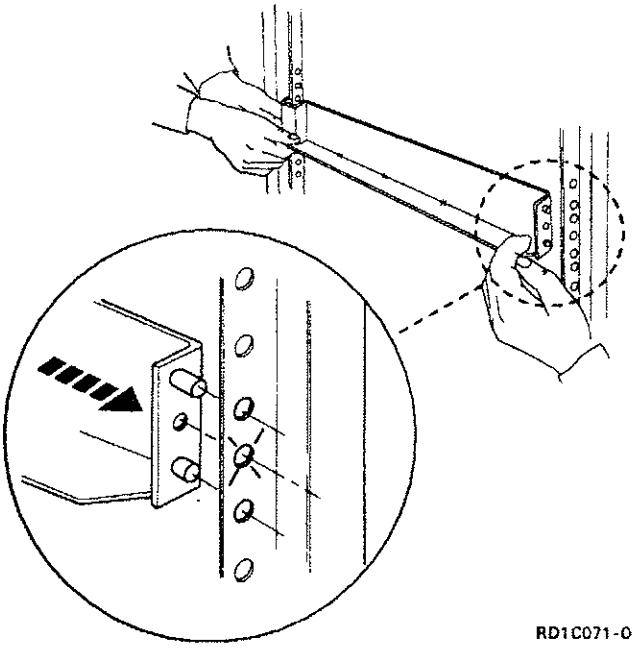


8

Install the front portion of the *right* rail.

Note: When you move the rail, the rear pins may slide out.

- **Holding the rail in place, move the front portion of the rail to center the marked hole between the pins. Then, move the front pins behind the frame holes.**
- **Force the rail toward the front so that all pins are in the holes.**



RD1C071-0

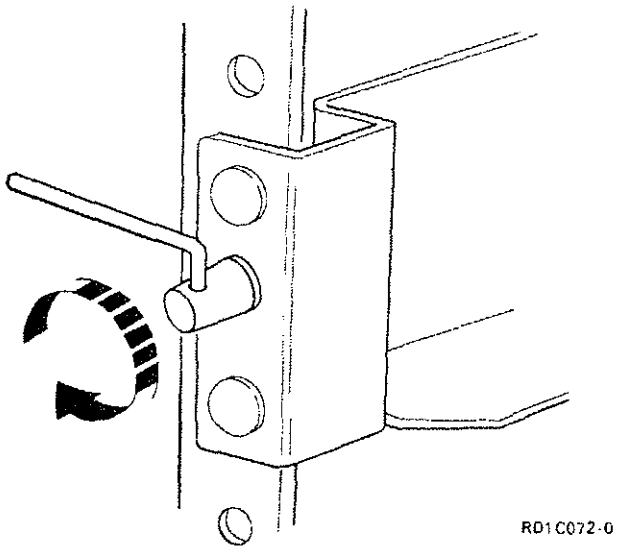
Installing the Rails (Continued)

9

Warning: You must attach the rail with a screw before continuing. If you do not attach the rail, it will not hold the system devices.

Attach the *right* rail with a screw at the rear of the rack.

Use the tightening rod to tighten the screw.



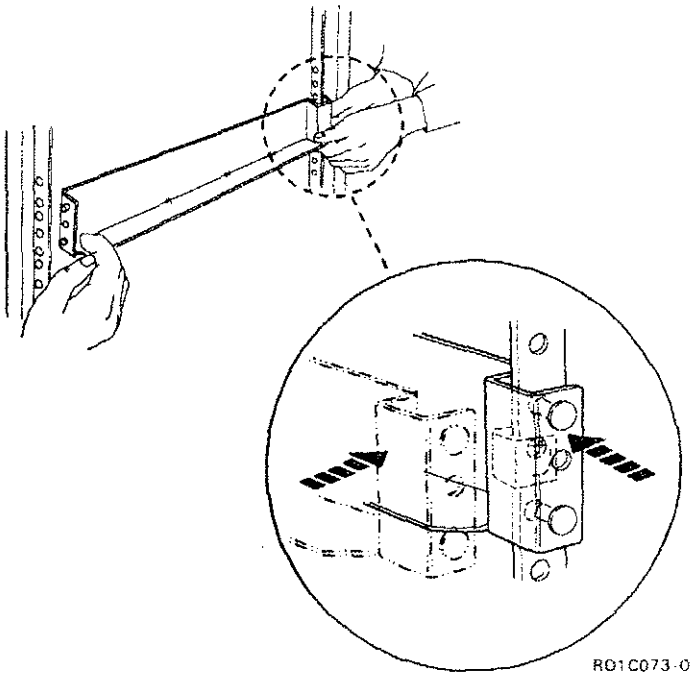
RD1C072-0

10

Install the rear portion of the *left* rail.

***Note:** One person should stand in front of the rack, another person at the rear of the rack.*

- **Place the U-shaped end around the rear frame.**
- **Insert the support pins that stick out from the rail so that the nut clip is between the two pins.**



RD1C073-0

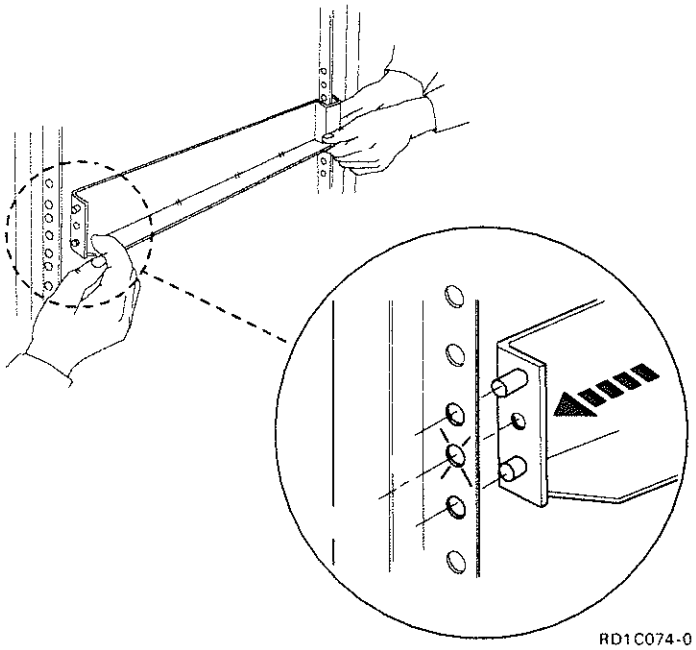
11

Install the front portion of the *left* rail.

Notes:

1. *Because of the rack padding, more pressure is needed to do this step than for the right side.*
2. *When you move the rail, the rear pins may slide out.*

- **Holding the rail in place, move the front portion of the rail to center the marked hole between the pins. Then, move the front pins behind the frame holes.**
- **Force the rail toward the front so that all pins are in the holes.**



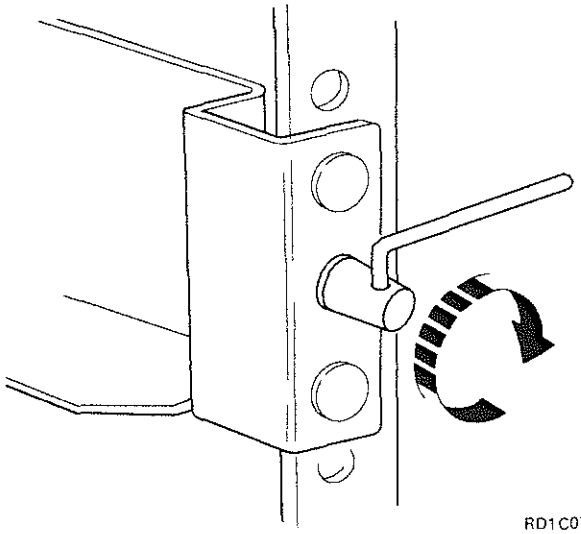
Installing the Rails (Continued)

12

Warning: You must attach the rail with a screw before continuing. If you do not attach the rail, it will not hold the system devices.

Attach the *left* rail with a screw at the rear of the rack.

Use the tightening rod to tighten the screw.



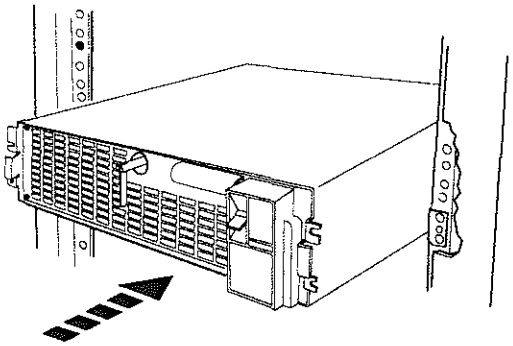
RD1C075-0

Installing the Disk Unit

1

CAUTION
The 9332 weighs approximately 30 kilograms (65 pounds). It takes two people to safely lift and install the disk unit in the rack.

Place the disk unit on the rails. Slide the unit into the rack until the front of the disk unit frame is against the rack.

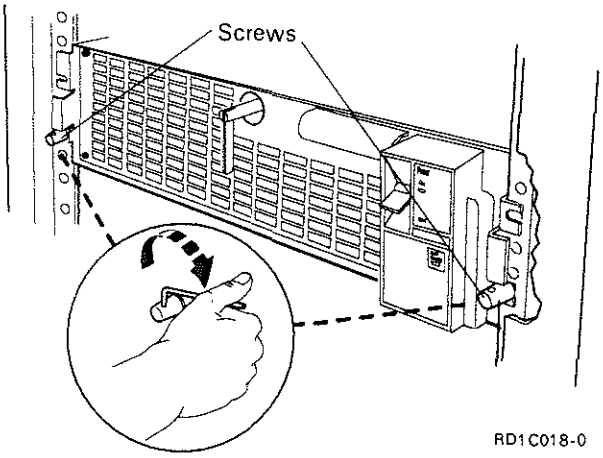


RD1C060-0

2

Attach the front of the disk unit to the rack with the two screws.

Use the tightening rod to tighten the screws.



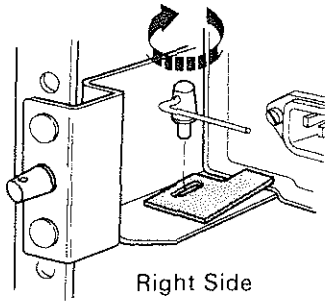
RD1C018-0

Installing the Disk Unit (Continued)

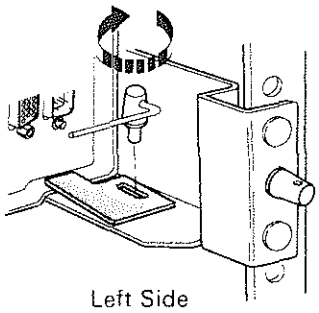
3

Attach the rear of the disk unit to each rail with the brackets and screws.

Use the tightening rod to tighten the screws.



Right Side

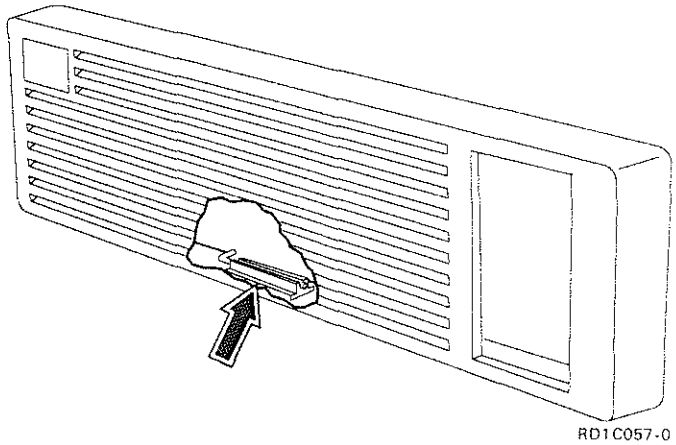


Left Side

RD1C019-0

4

Place the tightening rod on the lower edge inside the front cover. The tightening rod is also used when removing the disk unit from the rack.



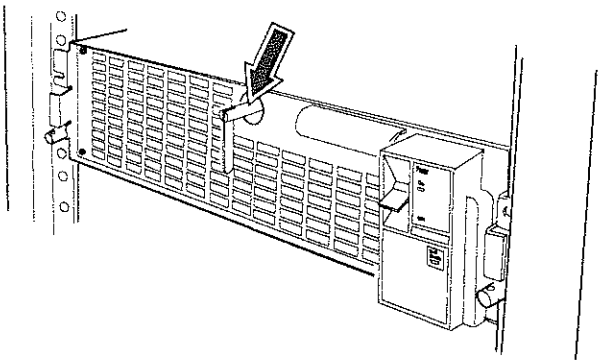
RD1C057-0

Unlocking the Shock Mounts

1

Warning: Be sure to unlock the shock mounts before operating the 9332; otherwise, there could be damage to the 9332.

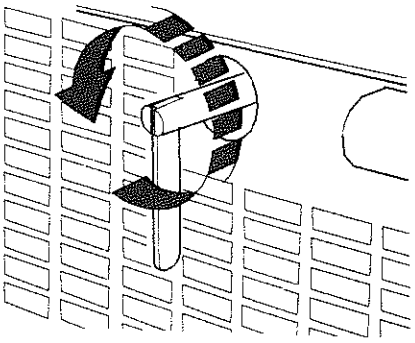
Locate the shock mount locking stud.



RD1C005-0

2

Unlock the shock mounts by turning the locking stud counterclockwise until it stops.

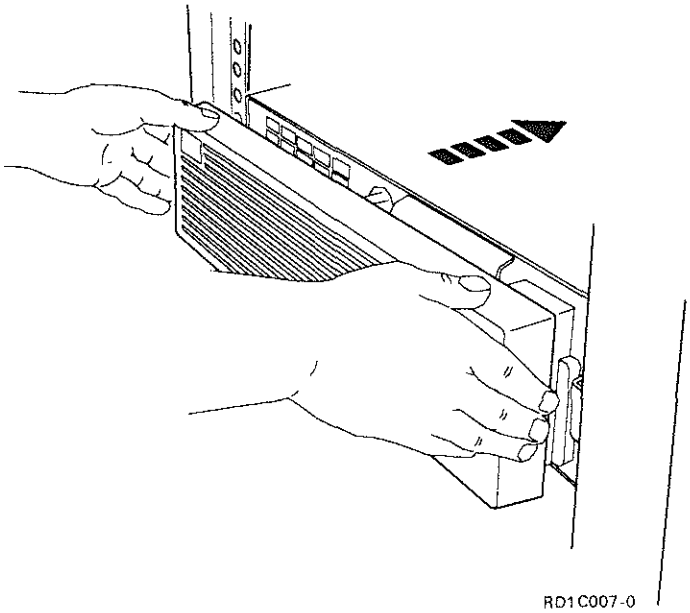


RD1C006-0

Installing the Front Cover Assembly

1

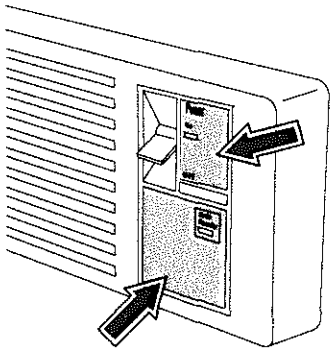
Install the front cover assembly.



RD1C007-0

2

If necessary, install the control panel decals using the specific decals for your country's language.



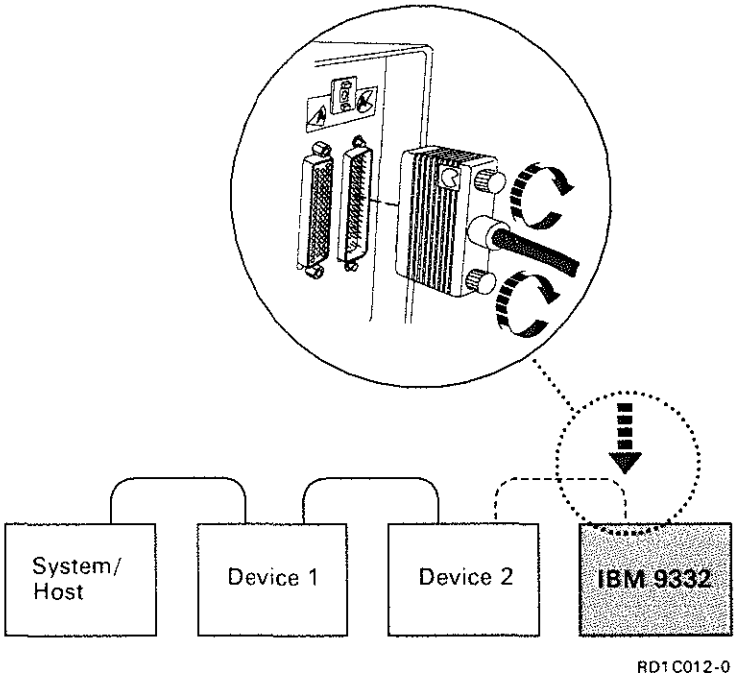
RD1C008-0

Connecting the Signal Cables

Connect the signal cable that is labeled with an incomplete circle to the 9332 connector that is also labeled with an incomplete circle (input signal connector).

Notes:

1. *Instructions to connect the other end of this signal cable will be supplied by your system setup instructions or system upgrade instructions.*
2. *Instructions to connect either a terminating plug or another signal cable to the remaining 9332 connector will be supplied by your system setup instructions or system upgrade instructions.*
3. *An example of connecting signal cables to a 9332 Disk Unit is shown in Appendix A. However, do* ***not*** *use the example as a procedure to connect the signal cables.*

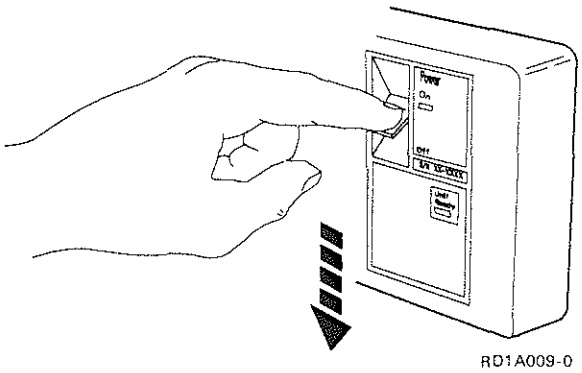


RD1C012-0

Connecting the Power Cord

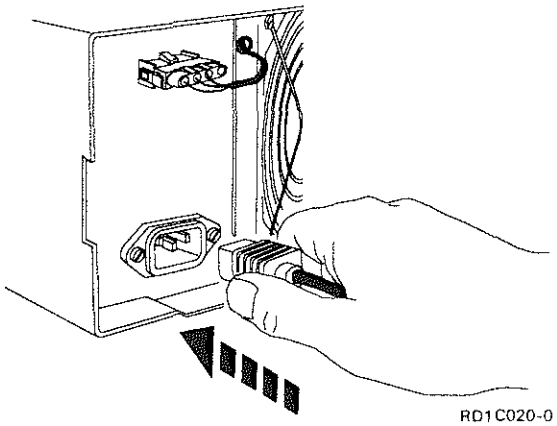
1

Ensure that the 9332 is powered off.



2

Connect one end of the power cord to the AC power connector on the 9332.



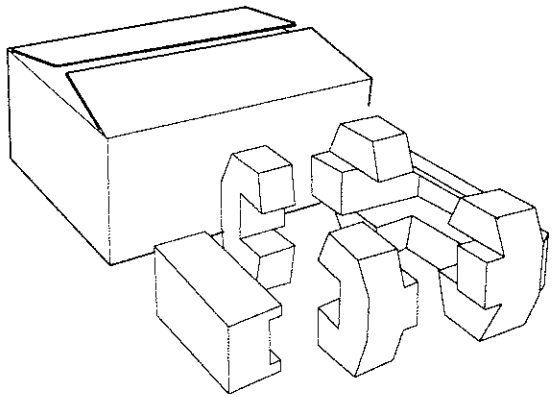
3

Instructions to connect the other end of this power cord will be supplied by your system setup instructions or system upgrade instructions.

Saving the Packing Materials

Save these packing materials for later use when shipping or moving the 9332.

Note: Skip this step if you are not installing this unit for the first time. Your packing materials were saved earlier when the disk unit was first installed.



RD1C004-0

Completing the Task

You have installed the 9332 Disk Unit.

See your system setup instructions or system upgrade instructions to complete this task and prepare the 9332 for operation.

2. Installing a Stand-Alone 9332

Arranging the Parts 2-2
Installing the Cover Assembly 2-4
Unlocking the Shock Mounts 2-7
Installing the Front Cover 2-8
Connecting the Signal Cables 2-9
Connecting the Power Cord 2-10
Saving the Packing Materials 2-11
Completing the Task 2-12

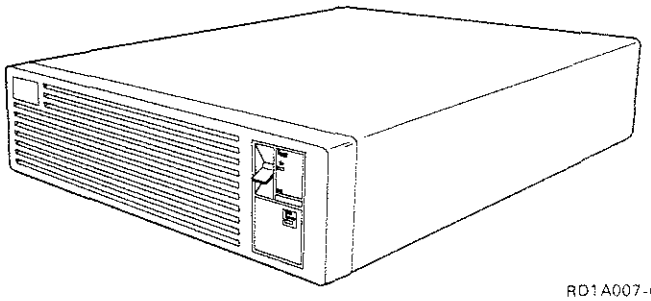
2. Installing a Stand-Alone 9332

Arranging the Parts

This manual is to be used with your system setup or system upgrade instructions. If you have not been directed to this manual from a system-instructed procedure, go to your system setup or system upgrade instructions for installing a 9332. You will be directed by the system setup or system upgrade instructions when to return to this manual. When performing a procedure in this manual, continue to perform each step until this manual tells you to return to the system setup or system upgrade instructions.

1

Are the stand-alone covers installed?



RD1A007-0

No Yes

Go to page 2-7.

2

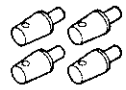
Check to see that you received these parts.

- **Screws (4)**
- **Tightening rod**
- **Disk unit**
- **Cover assembly**
- **Front cover**
- **Power cord**
- **Signal cable**
- **Decals[1]**
- **9332 manuals**

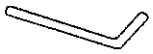
Note: See "If you need more information ..." on page iv for descriptions of these manuals.

If any parts are missing or damaged, contact the representative from whom you ordered the 9332.

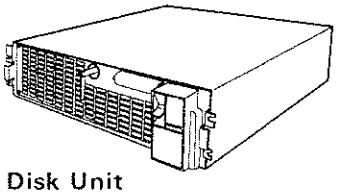
[1] **These parts may already be installed on the 9332.**



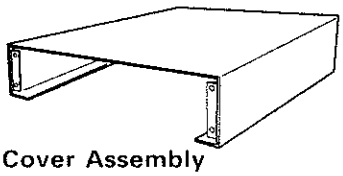
Screws (4)



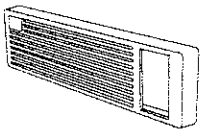
Tightening Rod



Disk Unit



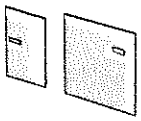
Cover Assembly



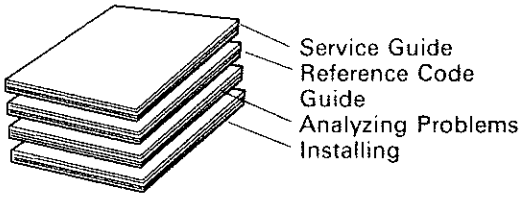
Front Cover

Power Cord

Signal Cable



Decals [1]



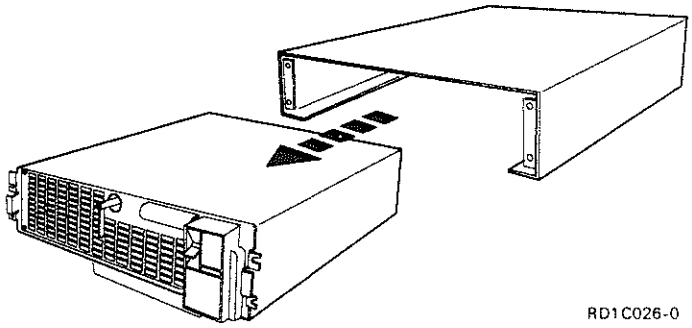
9332 Manuals

RD1C022-0

Installing the Cover Assembly

1

Slide the cover assembly over the unit until it stops.

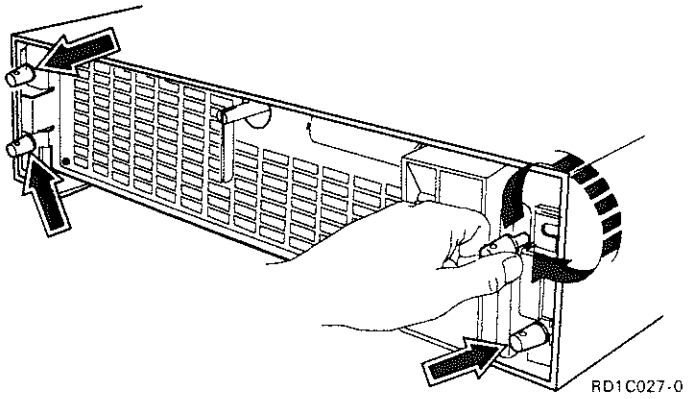


RD1C026-0

2

Attach the cover assembly to the unit using the four screws.

Note: Tighten the screws finger tight only.

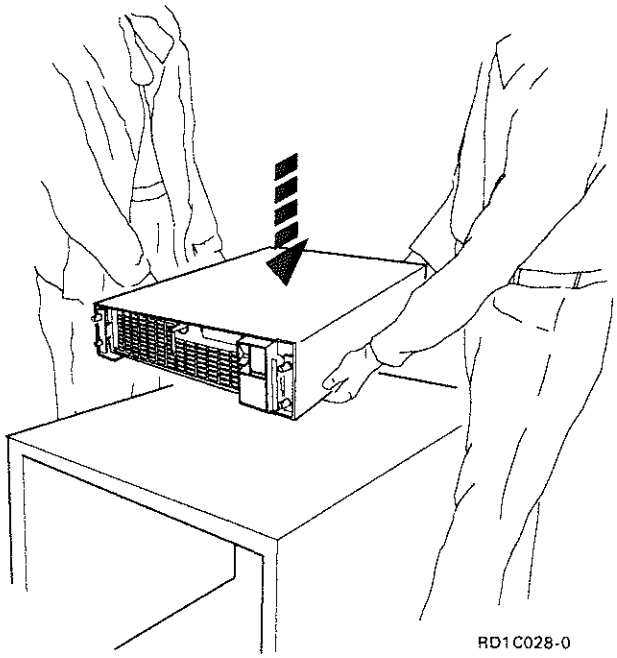


RD1C027-0

3

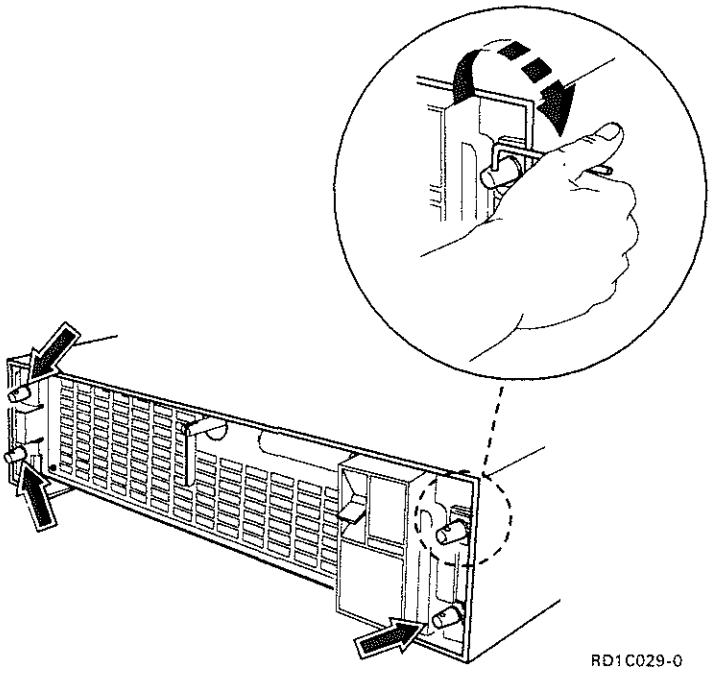
CAUTION
The 9332 weighs approximately 36 kilograms (80 pounds) with the stand-alone cover assembly installed. It takes two or more persons to safely lift and move the unit.

Place the 9332 on a work surface.



4

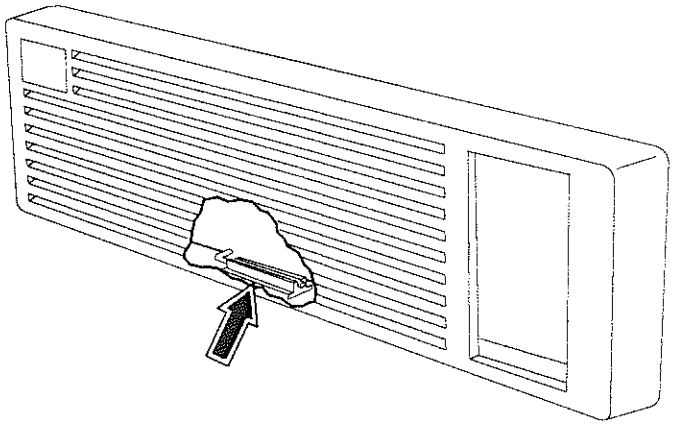
Tighten the four screws with the tightening rod.



Installing the Cover Assembly (Continued)

5

Place the tightening rod on the lower edge inside the front cover. The tightening rod is also used when removing the covers from the 9332.



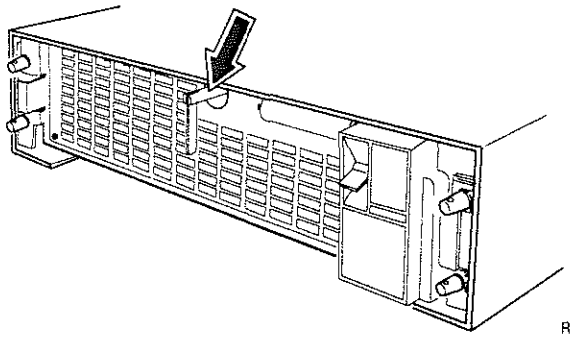
RD1C057-0

Unlocking the Shock Mounts

1

Warning: Be sure to unlock the shock mounts before operating the 9332; otherwise, there could be damage to the 9332.

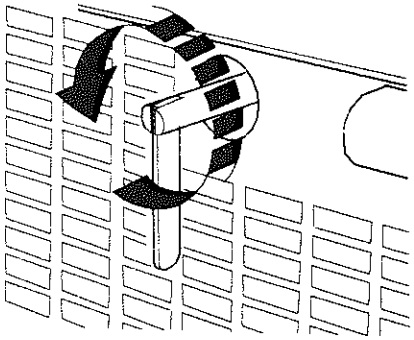
Locate the shock mount locking stud.



RD1C030-0

2

Unlock the shock mounts by turning the locking stud counterclockwise until it stops.

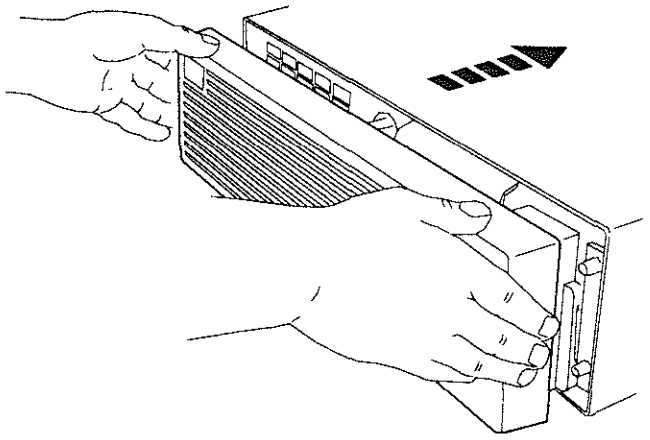


RD1C006-0

Installing the Front Cover

1

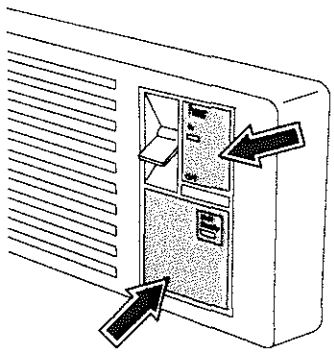
Install the front cover.



RD1C031-0

2

If necessary, install the control panel decals using the specific decals for your country's language.



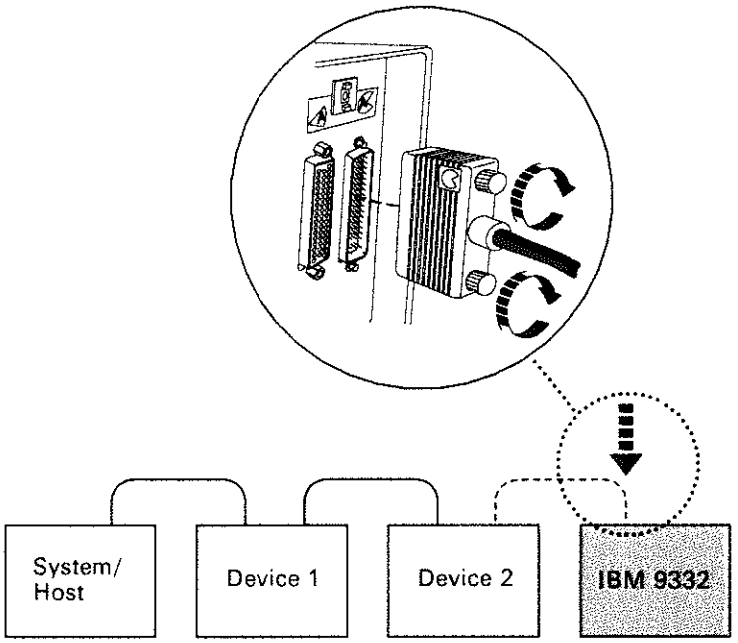
RD1C008-0

Connecting the Signal Cables

Connect the signal cable that is labeled with an incomplete circle to the 9332 connector that is also labeled with an incomplete circle (input signal connector).

Notes:

1. *Instructions to connect the other end of this signal cable will be supplied by your system setup instructions or system upgrade instructions.*
2. *Instructions to connect either a terminating plug or another signal cable to the remaining 9332 connector will be supplied by your system setup instructions or system upgrade instructions.*
3. *An example of connecting signal cables to a 9332 Disk Unit is shown in Appendix A. However, do* ***not*** *use the example as a procedure to connect the signal cables.*

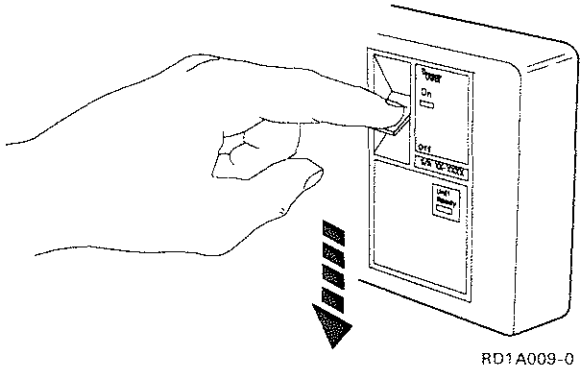


RD1C012-0

Connecting the Power Cord

1

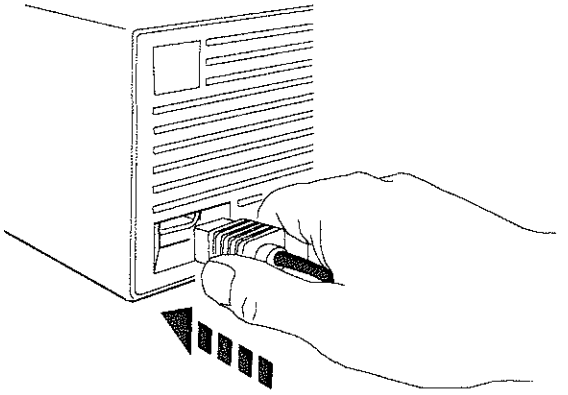
Ensure that the 9332 is powered off.



RD1A009-0

2

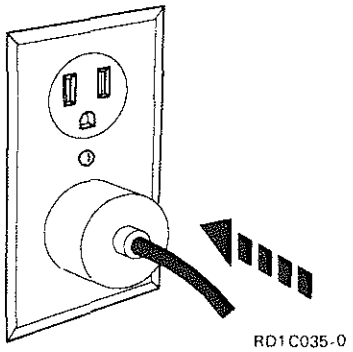
Connect one end of the power cord to the AC power connector on the 9332.



RD1C050-0

3

Connect the other end of the power cord to an available AC power outlet.

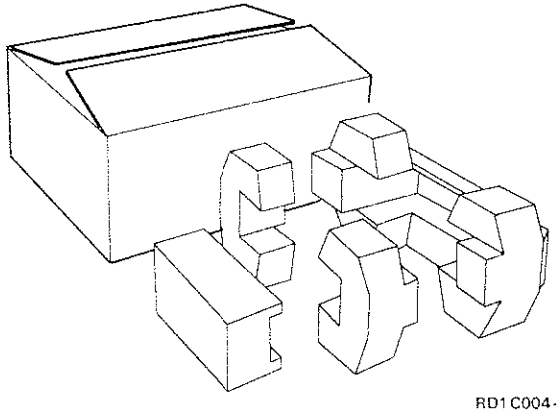


RD1C035-0

Saving the Packing Materials

Save these packing materials for later use when shipping or moving the 9332.

Note: Skip this step if you are not installing this unit for the first time. Your packing materials were saved earlier when the disk unit was first installed.



RD1C004-0

Completing the Task

You have installed the 9332 Disk Unit.

See your system setup instructions or system upgrade instructions to complete this task and prepare the 9332 for operation.

3. Preparing the 9332 for Operation 3

Unlocking the Shock Mounts 3-2
Setting the Address Switch 3-4
Checking the 9332 3-5

Unlocking the Shock Mounts

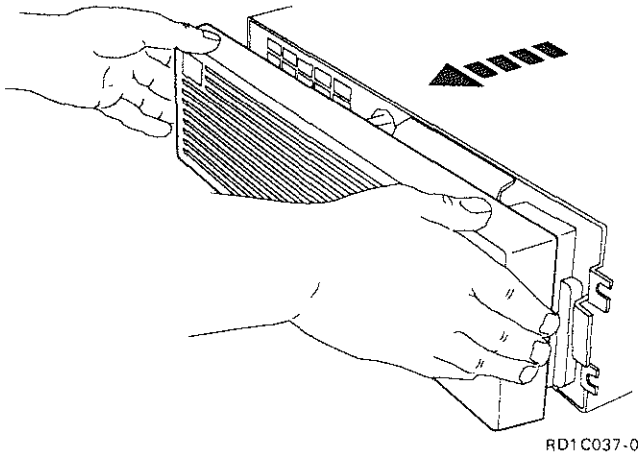
Warning: Be sure to unlock the shock mounts before operating the 9332; otherwise, there could be damage to the 9332.

The shock mounts may have already been unlocked from a previous procedure.

If you have already unlocked the shock mounts, continue to "Setting the Address Switch" on page 3-4.

1

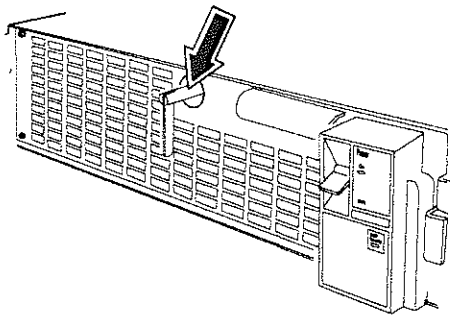
Remove the front cover.



RD1C037-0

2

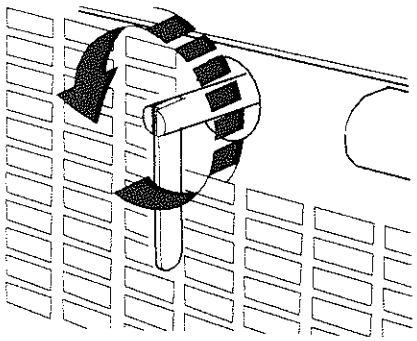
Find the shock mount locking stud.



RD1C036-0

3

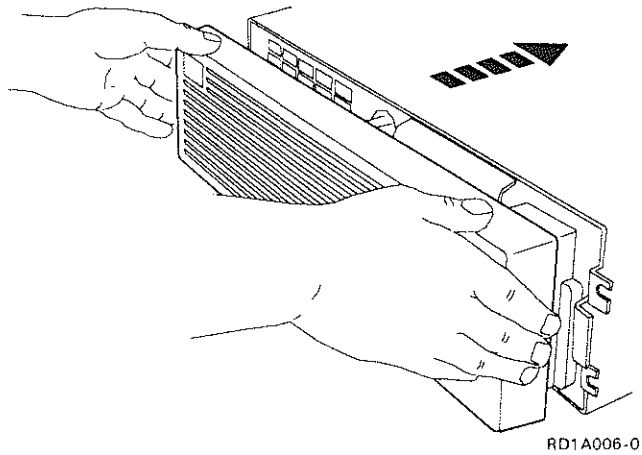
Unlock the shock mounts by turning the locking stud counterclockwise until it stops.



RD1C006-0

4

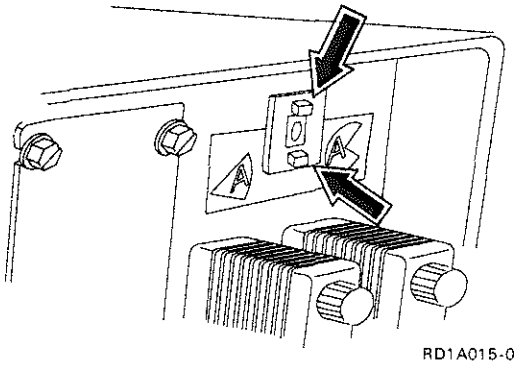
Install the front cover.



RD1A006-0

Setting the Address Switch

Push the top button or bottom button of the address switch until the device address you have selected is displayed.



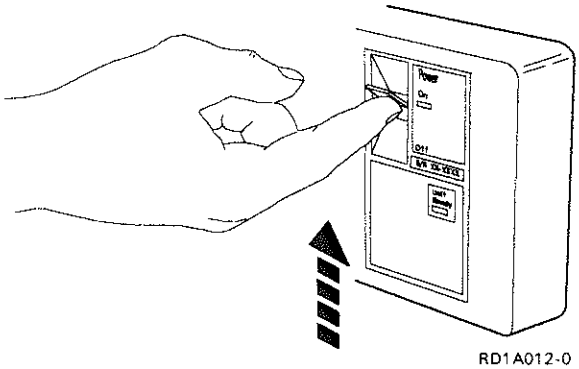
RD1A015-0

Checking the 9332

1

If your disk unit is mounted in a rack, ensure that the rack is powered on. See the rack user's guide for rack power-on instructions.

Power on the 9332.



RD1A012-0

2

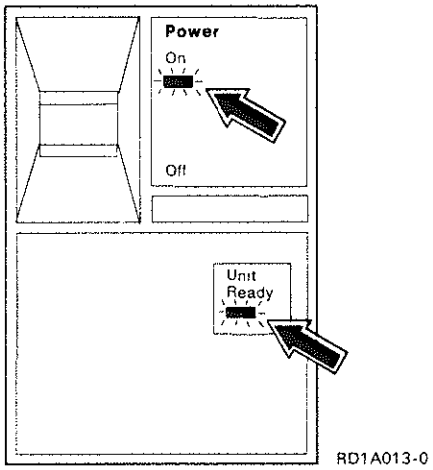
Observe the condition of the Power On light and the Unit Ready light.

Note: Wait 30 seconds to 90 seconds. Both the Power On light and the Unit Ready light should be on continuously.

Are both lights on continuously?

No **Yes**

Go to step 7.

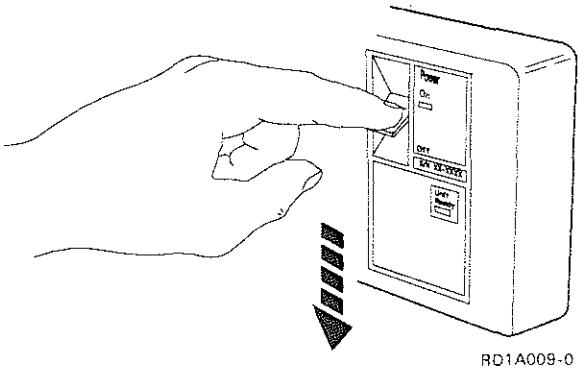


RD1A013-0

Checking the 9332 (Continued)

3

Power off the 9332.



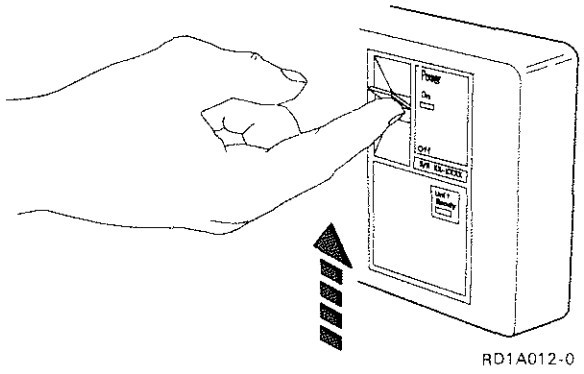
RD1A009-0

4

Wait approximately 30 seconds.

Power on the 9332.

Note: When you power on the 9332 with the system powered off or when the signal cable from the 9332 to the system is disconnected, the 9332 may not always indicate Unit Ready.



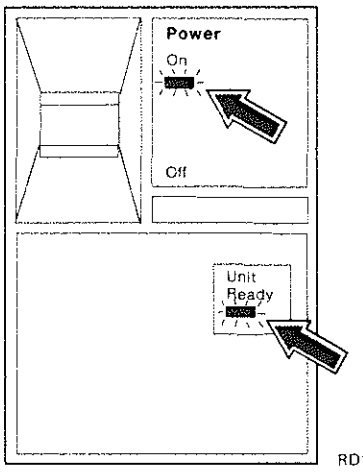
RD1A012-0

5

Observe the condition of the Power On light and the Unit Ready light.

Note: Wait 30 seconds to 90 seconds. Both the Power On light and the Unit Ready light should be on continuously.

Are both lights on continuously?



No **Yes**

Go to step 7.

6

See the 9332 manual *Analyzing Problems* to analyze problems indicated by the Power On light or the Unit Ready light.

Checking the 9332 (Continued)

7

The 9332 is operating correctly. It is ready to be used by your system.

Note: If you are performing a system setup or system upgrade, refer to your system setup instructions or system upgrade instructions for what to do next.

End of procedure.

4. Preparing to Move a Rack with a 9332 Installed

4

Locking the Shock Mounts 4-2

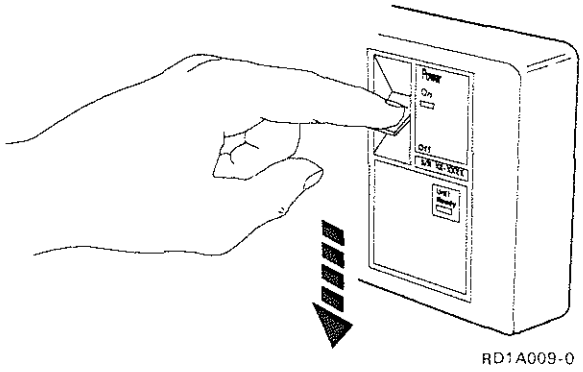
4. Preparing to Move a Rack with a 9332 Installed

Locking the Shock Mounts

1

Warning: Be sure to lock the shock mounts before moving or shipping the rack with a 9332 installed; otherwise, there could be damage to the 9332.

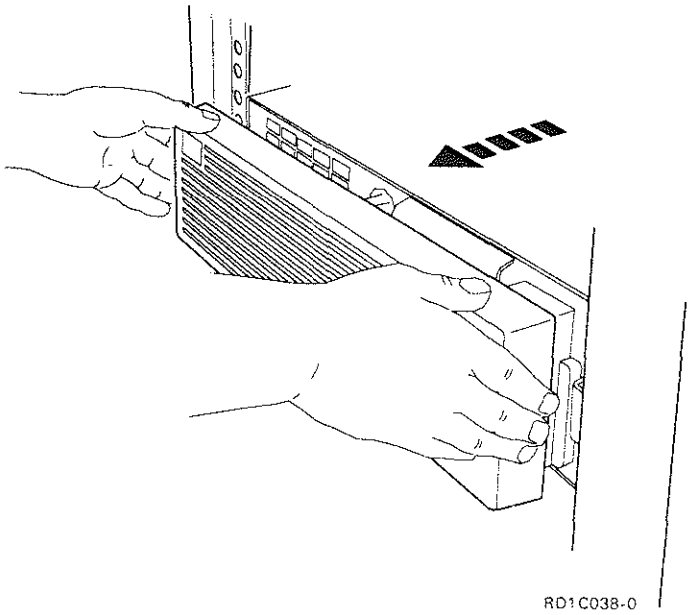
Power off the 9332.



RD1A009-0

2

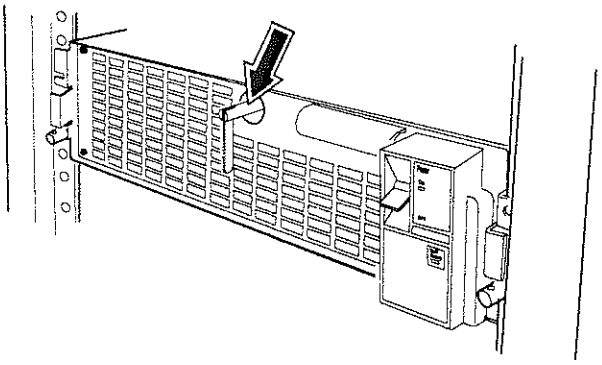
Remove the front cover.



RD1C038-0

3

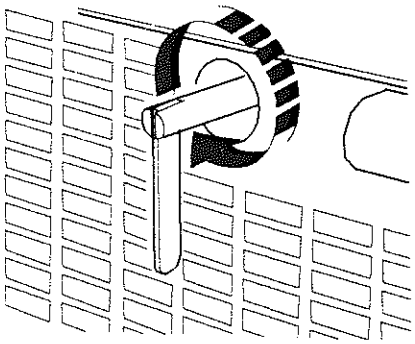
Find the shock mount locking stud.



RD1C005-0

4

Lock the shock mounts by turning the locking stud clockwise until it stops.

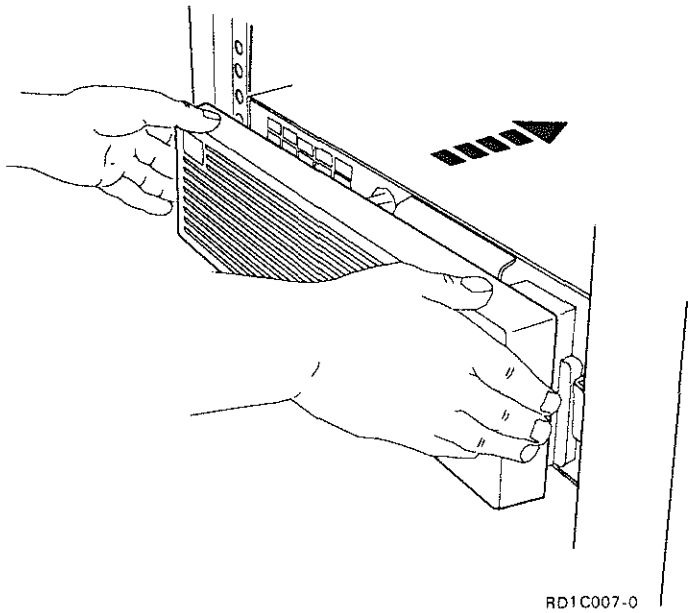


RD1C039-0

Locking the Shock Mounts (Continued)

5

Install the front cover.



RD1C007-0

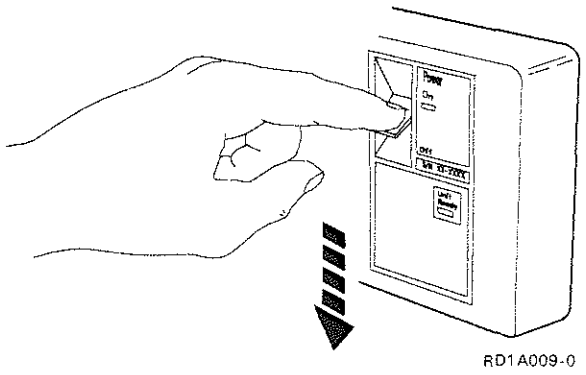
5. Preparing to Move a Stand-Alone 9332

Disconnecting the Power Cord 5-2
Disconnecting the Signal Cables 5-3
Locking the Shock Mounts 5-5
Moving the Disk Unit 5-7

Disconnecting the Power Cord

1

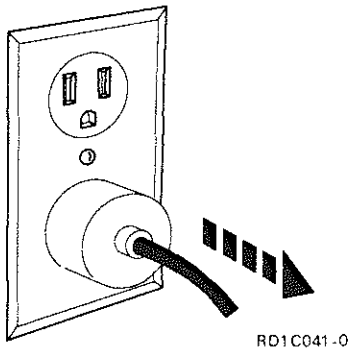
Power off the 9332.



RD1A009-0

2

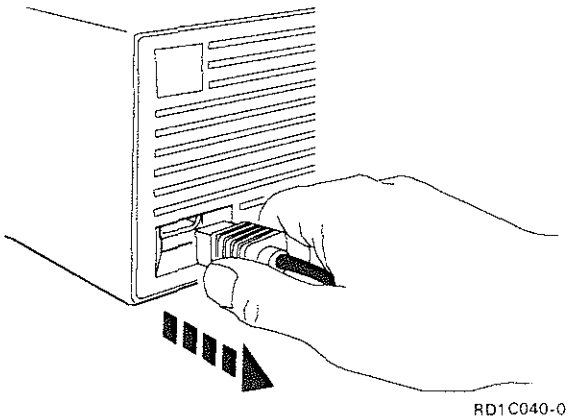
Disconnect the power cord from the AC power outlet.



RD1C041-0

3

Disconnect the power cord from the AC power connector on the 9332.

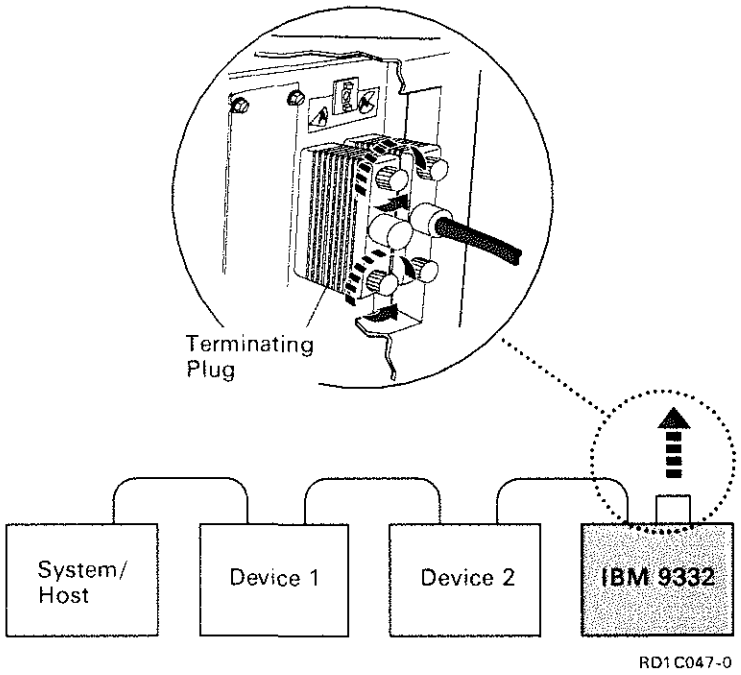


RD1C040-0

Disconnecting the Signal Cables

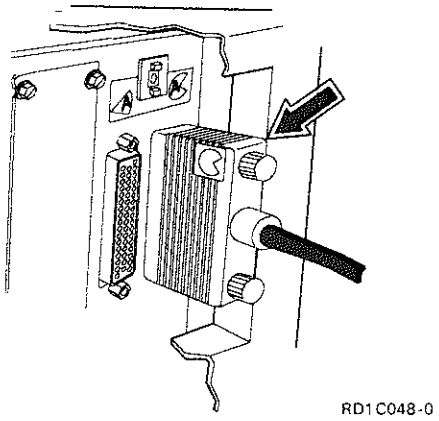
1

Remove the terminating plug (or signal cable) from the 9332 connector that is marked with a wedge (output signal connector).



2

Remove the signal cable from the 9332 connector that is marked with an incomplete circle (input signal connector).

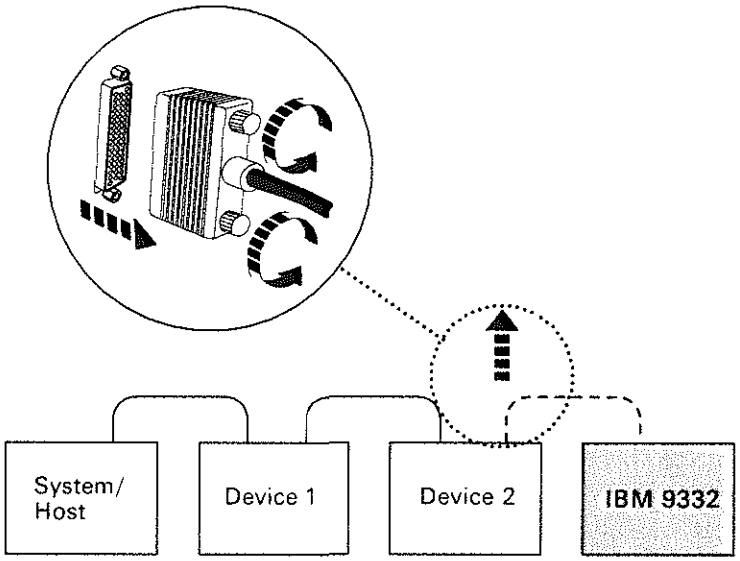


Disconnecting the Signal Cables (Continued)

3

Remove the other end of the signal cable (removed in step 2) from the next unit on the cable path. The signal cable connector is marked with a wedge.

Note: This signal cable stays with the unit being moved and is used again when the unit is reinstalled.

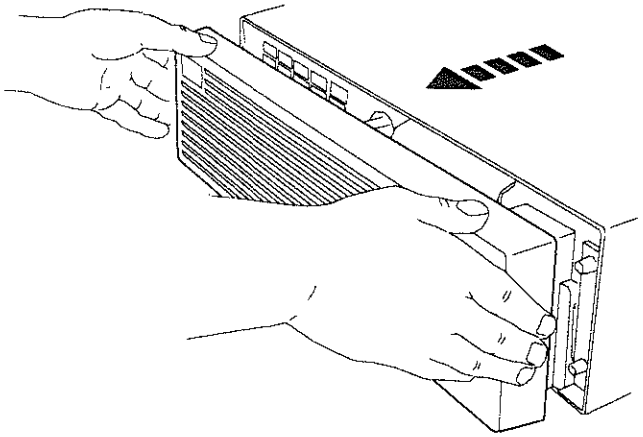


Locking the Shock Mounts

1

Warning: Be sure to lock the shock mounts before moving or shipping the 9332; otherwise, there could be damage to the 9332.

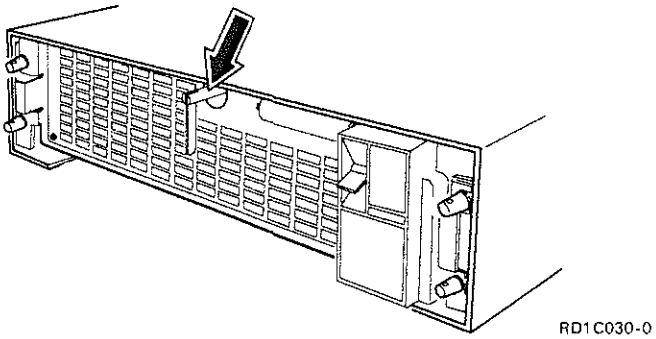
Remove the front cover.



RD1C049-0

2

Find the shock mount locking stud.

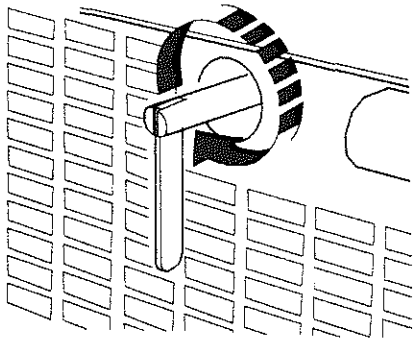


RD1C030-0

Locking the Shock Mounts (Continued)

3

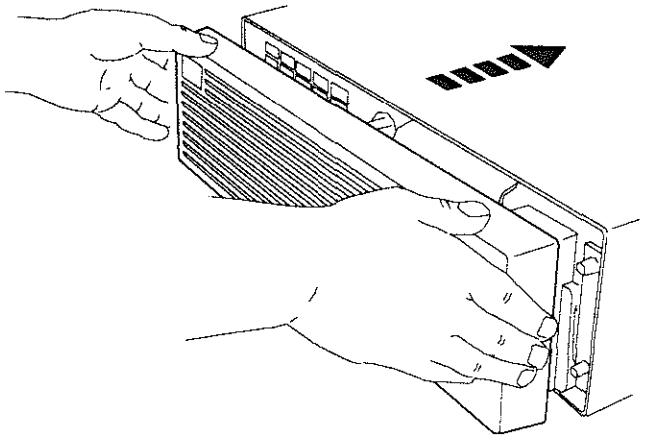
Lock the shock mounts by turning the locking stud clockwise until it stops.



RD1C039-0

4

Install the front cover.



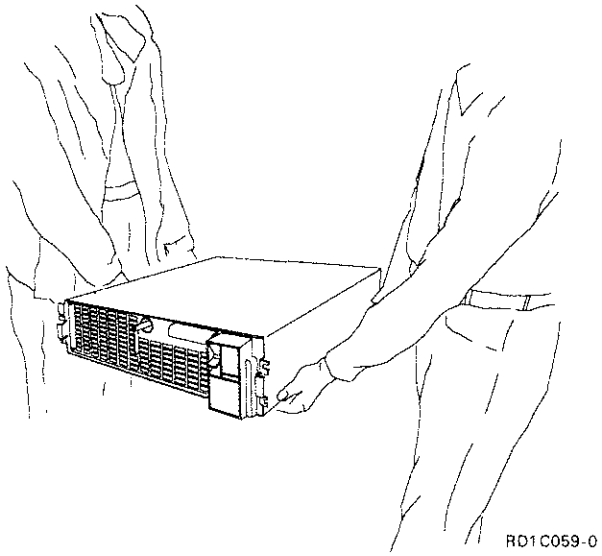
RD1C031-0

Moving the Disk Unit

CAUTION
The 9332 weighs approximately 36 kilograms (80 pounds) with the stand-alone cover assembly installed. It takes two or more persons to safely lift and move the disk unit.

Move the disk unit to its new location.

End of procedure.



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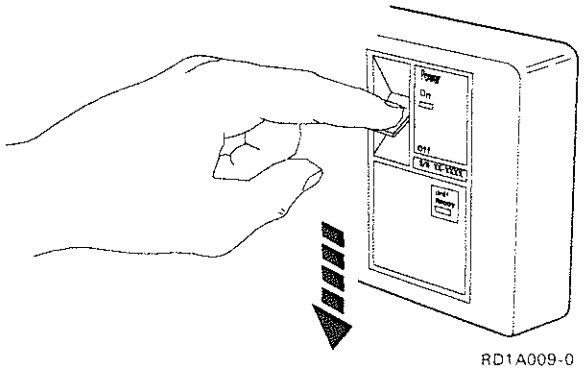
6. Removing a 9332 from a Rack

Disconnecting the Power Cord

1

Power off the 9332.

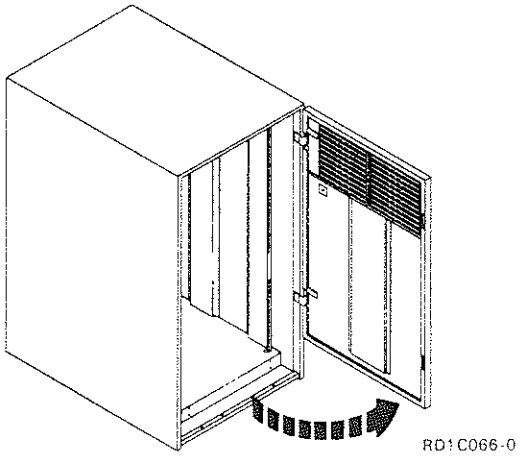


2

Power off the system and remove power from the rack.

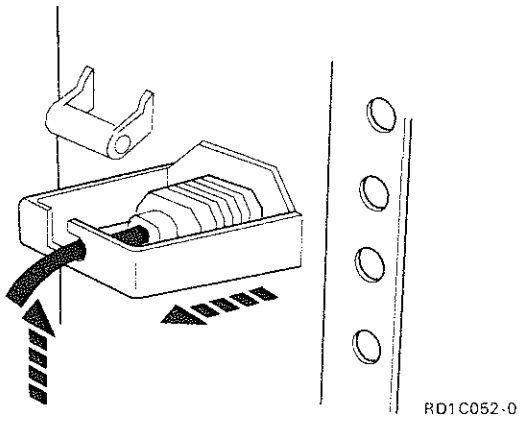
3

Open the rear door of the rack.



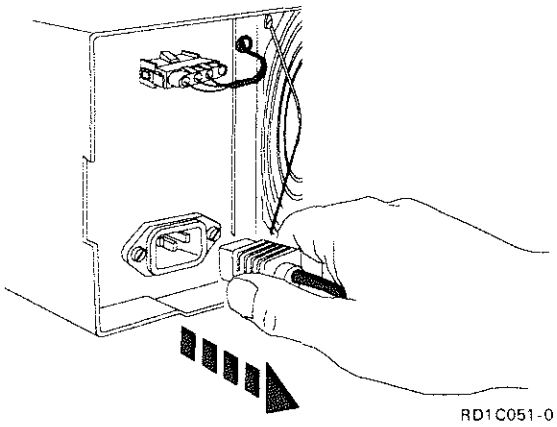
4

Disconnect the power cord from the AC power outlet on the rack.



5

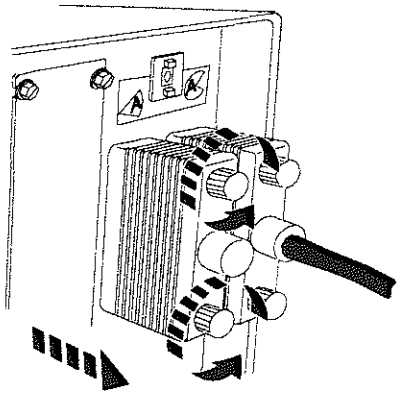
Disconnect the power cord from the AC power connector on the 9332.



Disconnecting the Signal Cables

1

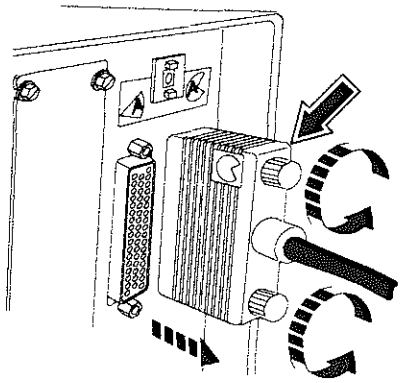
Remove the terminating plug (or signal cable) from the 9332 connector that is marked with a wedge (output signal connector).



RD1C043-0

2

Remove the signal cable from the 9332 connector that is marked with an incomplete circle (input signal connector).

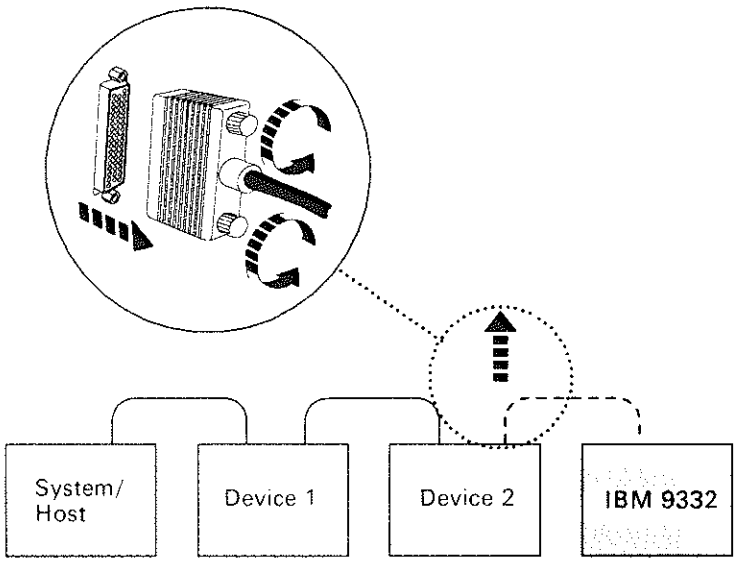


RD1C044-0

3

Remove the other end of the signal cable (removed in step 2) from the next unit on the cable path. The signal cable connector is marked with a wedge.

Note: This signal cable stays with the unit being moved and is used again when the unit is reinstalled.

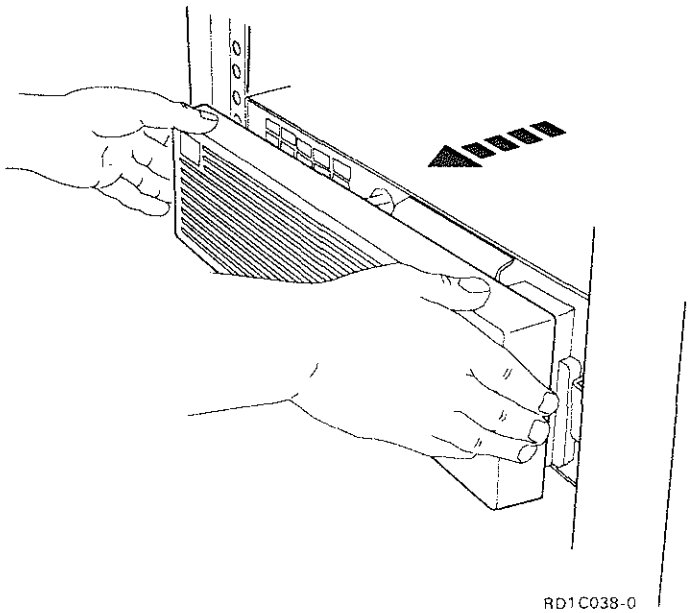


Locking the Shock Mounts

1

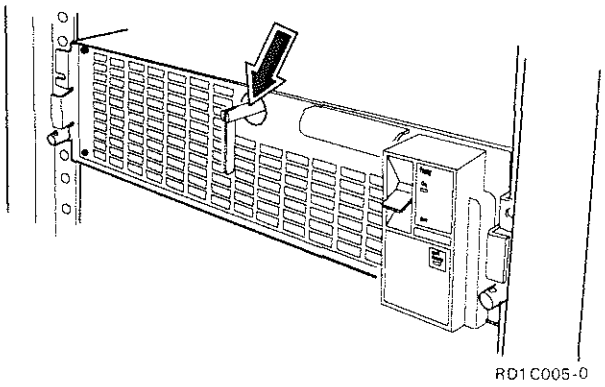
Warning: Be sure to lock the shock mounts before removing the 9332 from the rack; otherwise, there could be damage to the 9332.

Remove the front cover.



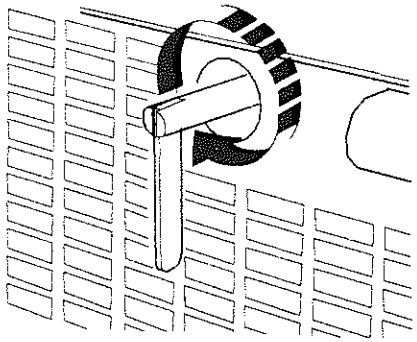
2

Find the shock mount locking stud.



3

Lock the shock mounts by turning the locking stud clockwise until it stops.



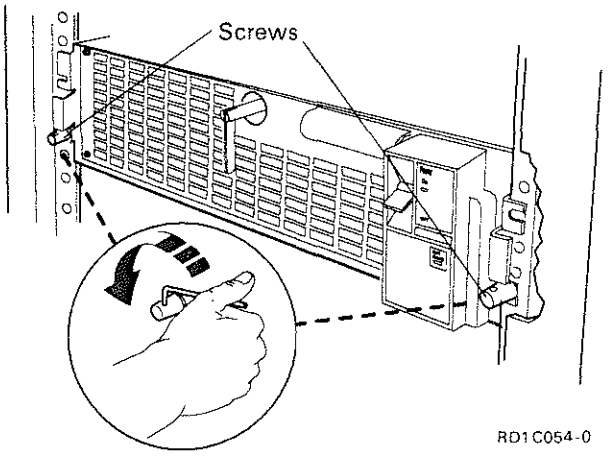
RD1C039-0

Removing the Disk Unit

1

Remove the two screws that hold the 9332 to the rack.

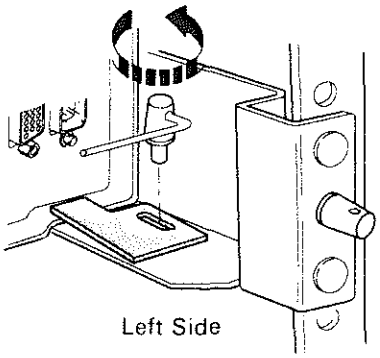
Note: Use the tightening rod (stored inside the front cover) to loosen the screws.

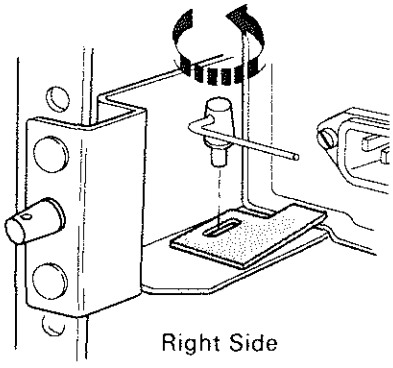


2

Remove the two screws that hold the brackets to the rails.

Note: Use the tightening rod to loosen the screws.



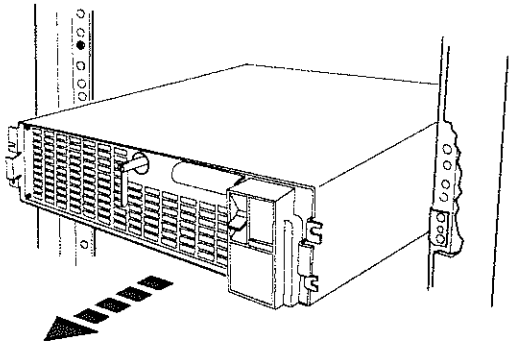


3

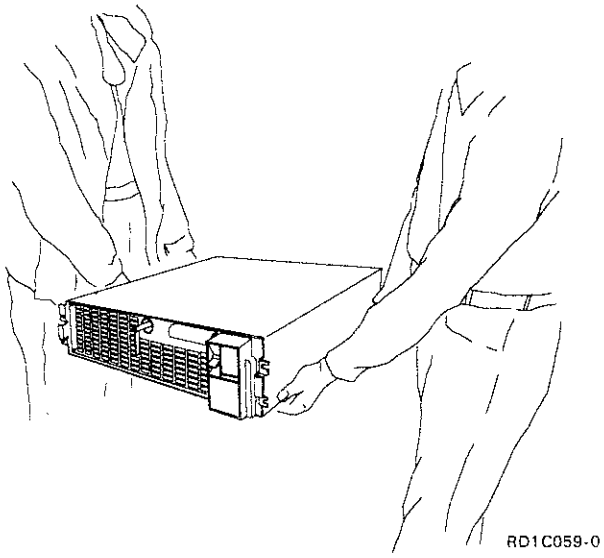
CAUTION
The 9332 weighs approximately 30 kilograms (65 pounds). It takes two or more persons to safely lift and remove the disk unit from the rack.

Be sure you have a good hold of the 9332 as you slide it out of the rack. If there is no unit installed in the rack above the 9332, the 9332 can tip and fall out once it gets more than half way out.

Remove the 9332 from the rack.



RD1C061-0



RD1C059-0

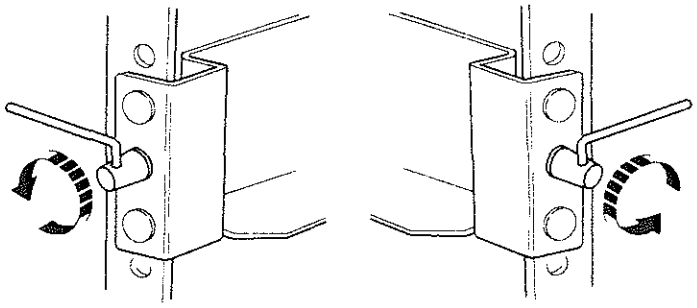
Removing the Rails

1

Remove the two screws from the rear of the rails.

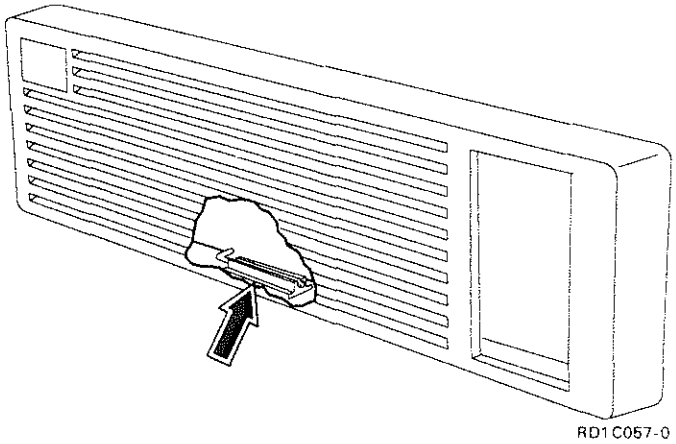
Then, remove the two rails from the rack.

Note: Use the tightening rod to loosen the screws.



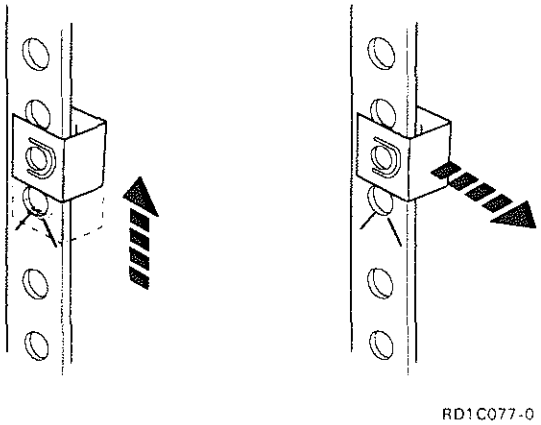
2

Place the tightening rod on the lower edge inside the front cover.



3

Remove the two nut clips from the rear of the rack.



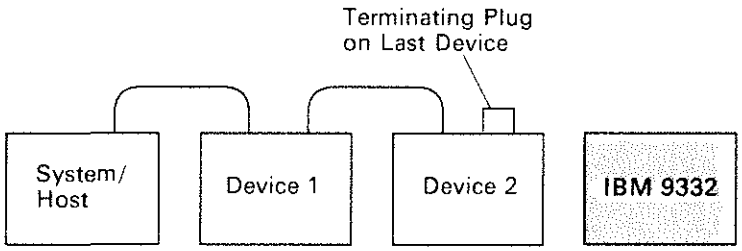
Appendix A. Examples

Connecting the Signal Cables A-2

Connecting the Signal Cables

Usually the 9332 being installed is connected to the end of the signal cable path, but the unit can be installed at any point in the path. This *example* shows the 9332 being installed at the end of the cable path. The length of the signal cable was determined when the 9332 was ordered.

A typical 9332 configuration may look like this:

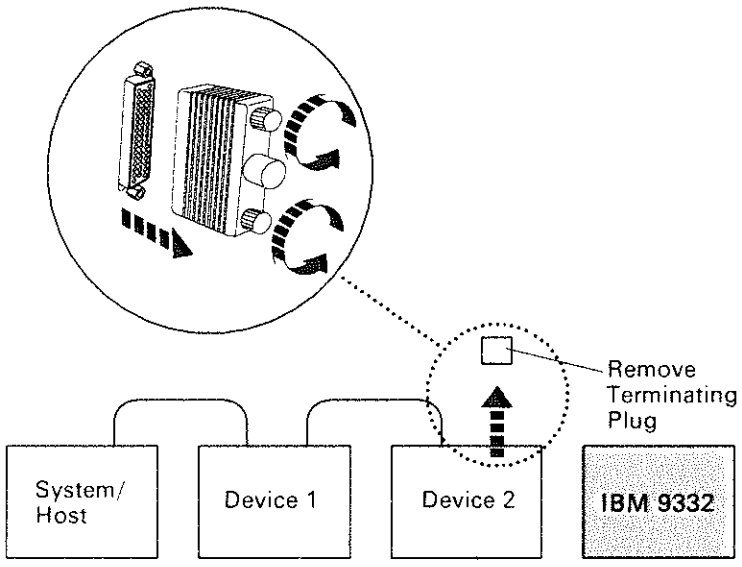


Use the following sample steps as a guide to connecting several disk units in a typical configuration.

1. Remove the terminating plug from the last unit installed in the cable path.

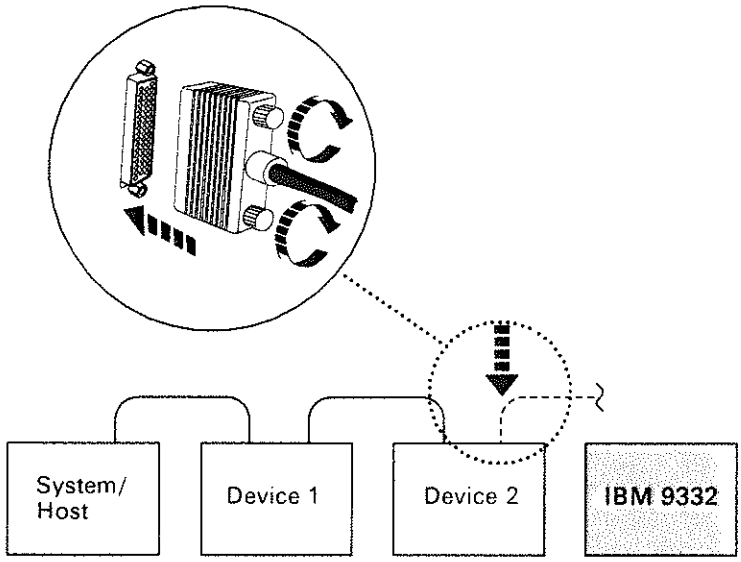
   Notes:

   a. *The terminating plug was shipped with the system.*
   b. *If this is the first unit installed on the cable path, the terminating plug may be installed on or packaged with the system or host. See your system setup instructions or system improvement instructions to find the terminating plug.*
   c. *Retain the terminating plug to install again later in this procedure.*



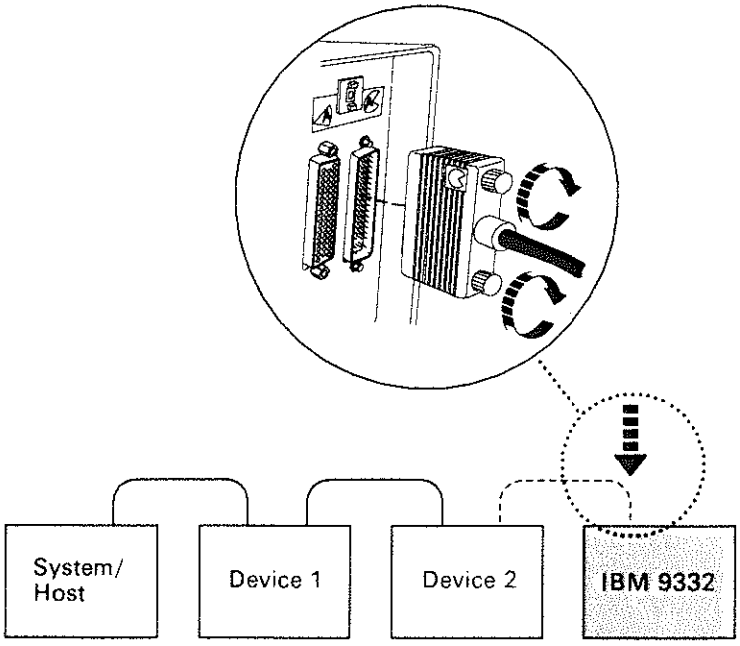
Connecting the Signal Cables (Continued)

2. Connect one end of the signal cable to the unit connector that the terminating plug was removed from.



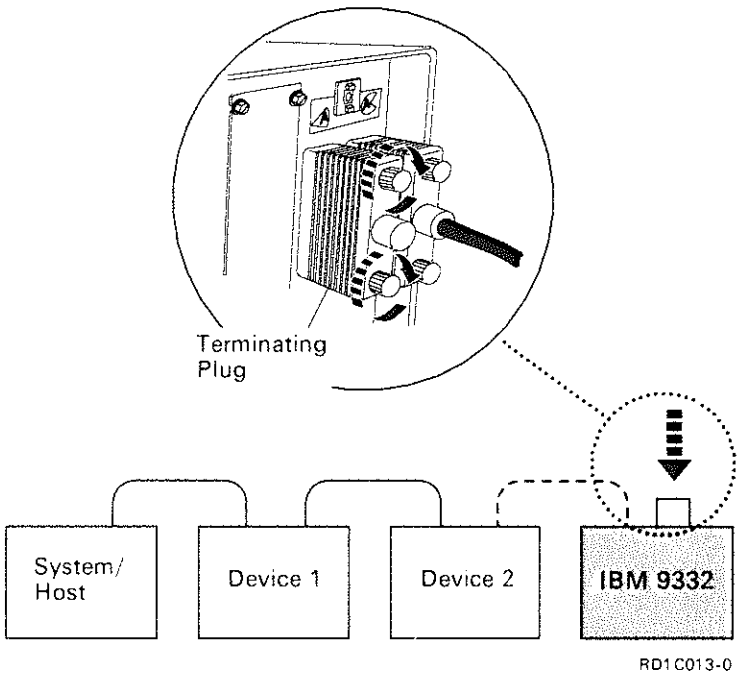
RD1C011-0

3. Connect the other end of the signal cable to the input signal connector on the 9332.



RD1C012-0

4. Install the terminating plug (removed in step 1) in the output signal connector on the 9332.



A Appendix A. Examples

This glossary includes terms and definitions from the *IBM Vocabulary for Data Processing, Telecommunications, and Office Systems*, GC20-1699.

AC. Alternating current.

address switch. A switch to set the device address.

configuration. The devices and programs that make up a system.

EIA unit. A unit of measure, established by the Electronic Industries Association, equal to 44.45 millimeters (1.75 inches).

filler panel. A panel that fills empty positions in a rack.

host. Pertaining to the primary or controlling unit in a system.

mm. Millimeter; one thousandth (0.001) of a meter.

nut clip. A fastener.

rack. A framework that holds devices.

upgrade. Improvement.

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