PrintServer 32 Printer

Installation Guide

Order Number: EK–LPS32–IG–001

Digital Equipment Corporation
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Preface

This guide covers the installation of the PrintServer 32 hardware up to the point where it is certified to be operating properly after the software is loaded into the system.

Note

All procedures should be performed in the order given. If you have a problem during the installation, see Section 9.2 for assistance.

Associated Documents

In addition to this guide, refer to the following manuals from the Software Kit to complete the installation of the printer:

VMS:

DEC PrintServer Supporting Host Software for VMS Installation Guide
DEC PrintServer Supporting Host Software for VMS Management Guide
DECprint Printing Services Software Installation Guide

ULTRIX:

DEC PrintServer Supporting Host Software for ULTRIX Installation Guide
DEC PrintServer Supporting Host Software for ULTRIX Management Guide
Installation Guide: PrintServer Client for ULTRIX

These guides explain how to install the PrintServer supporting host and client software on a VMS or ULTRIX system. The supporting host software enables the VMS host to function as a supporting host to a remote PrintServer 32 printer. The client software provides users with remote printing facilities on the PrintServer 32 printer.

For VMS, the supporting host and DECprint Printing Services software can be installed on the same VMS system.

Conventions

The following terms and conventions are used in this guide:

Term/Convention	Meaning
Note	Provides additional information.
Caution	Provides information for preventing equipment or software damage.
Warning	Provides information for preventing personal injury.
OPC	The organic photo conductor is the type of drum the printer uses. OPC drums can be disposed of without taking any special precautions.
Bullet (•)	A bulleted statement describes a result after performing a step. For example: 1. Press the Pause key to place the printer off line. • The off-line indicator lights.
Arrow (→)	Indicates a special instruction. For example: 1. Remove the toner cartridge from the drawer by lifting it straight up. → Discard the toner cartridge.
Bold	Text in boldface designates messages that appear on the operator panel.

Laser Safety

The PrintServer 32 printer complies with laser product performance standards set by government agencies as a Class 1 Laser Product. The PrintServer 32 printer does not emit hazardous light, since the beam is enclosed during all modes of customer operation and maintenance.

Warning

Use of controls or adjustment procedures other than those specified in this guide may result in hazardous laser light exposure.

Ozone Safety

The PrintServer 32 printer uses an ozone filter to remove the ozone generated by the printer. Be sure to replace the ozone filter each time user maintenance is performed on the printer.

Warning

Do not operate the printer without the ozone filter installed. The filter removes ozone that may cause eye or respiratory irritation.

Before You Start

Before you install the PrintServer 32 printer, be sure you have the following items (see Figure 1):

- Print engine and cabinet (packaged in one box). Also in this box are Shipaway Kits A and B. See Chapter 2 for items supplied in the shipaway kits.
- Bottom paper tray, shipped in its own box.
- Software Kit (optional), which contains software documentation and media.
- Country Kit (non-U.S. only), which contains translated hardware documentation, overlays, labels, and the appropriate power cord.

If any items are missing or damaged, immediately contact your sales representative and delivery agent or your DECdirect customer service representative.

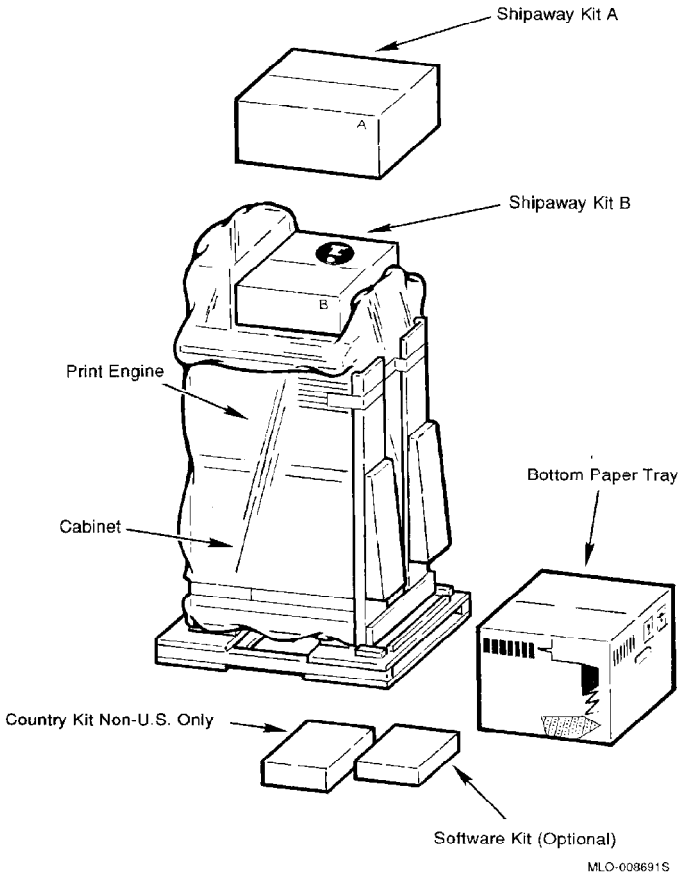
Special Tools

The only tools you need to install the PrintServer 32 printer are the open-end wrench and the Phillips screwdriver supplied in Shipaway Kit B. You need a razor knife to open the boxes.

Warning

The printer is heavy. To avoid injury, use two people to roll the printer down the shipping pallet ramp. Do not attempt to roll the printer down the shipping pallet alone.

Figure 1 Shipping Boxes



1

Preparing to Install the Printer

Before you unpack and install the PrintServer 32 printer, perform the following tasks:

- Select a site
- Install the software on your system
- Prepare the network

1.1 Select a Site

The proper site for the PrintServer 32 printer includes the following:

- A wall outlet
- Space around the unit for easy access
- Appropriate environmental conditions

1.1.1 Find a Wall Outlet

Select a wall outlet with the correct voltage and adequate amperage to supply power to the printer. The power requirements for the PrintServer 32 printer are:

Voltage	Frequency	Amperage
120 Volts	60 Hz	20-Amp circuit
240 Volts	50 Hz	8-Amp circuit

Do not plug other equipment that draws high levels of current, such as coffee pots, office copiers, or air conditioners, into the same power supply line. Exceeding the amperage rating trips the circuit breaker of the power supply line.

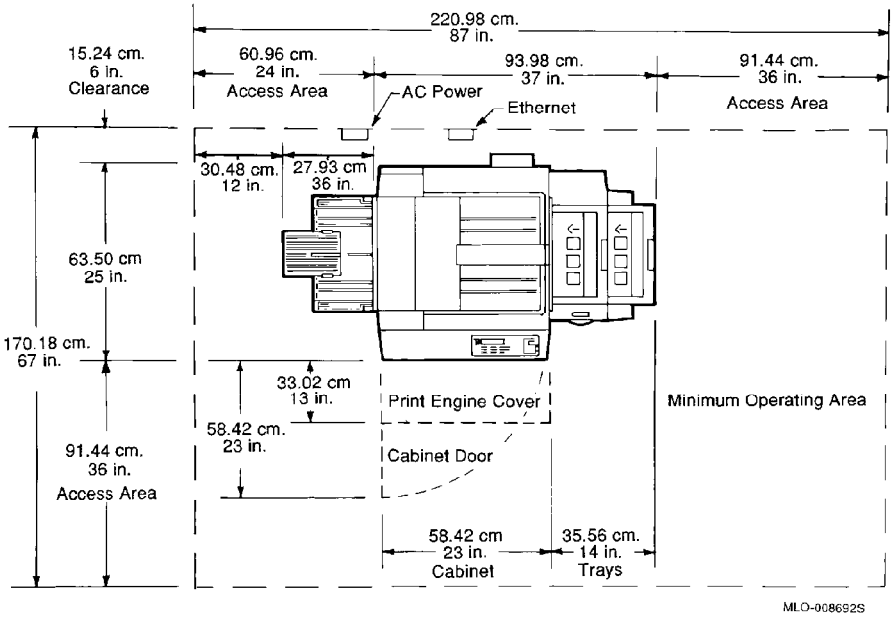
1.1.2 Provide Easy Access

Find an area that allows users access to the printer:

- A level floor
- Enough surrounding space to allow ventilation and easy access to all sides of the printer for servicing and adding paper. Make sure the user can face the opening of the bottom paper tray.

Figure 1–1 illustrates the space requirements for the printer.

Figure 1–1 Space Requirements



1.1.3 Find the Right Environment

The PrintServer 32 printer works best in an area that is:

- At a temperature range of 10° to 32°C (50° to 90°F) and a humidity range of 20% to 80%. This ensures consistent image quality and prevents paper jams.
- Well ventilated. This prevents heat buildup in the unit.
- Clean. This ensures that dust will not unnecessarily wear moving parts.
- Free from magnets and equipment, such as motors and transformers, which generate magnetic fields.
- Not subject to sudden changes in temperature or high humidity.
- Not exposed directly to a draft of hot or cold air from a heating system or an air conditioner.

1.2 Install the Software

The PrintServer 32 printer works with DEC PrintServer Supporting Host software. To install the software, refer to the following documents:

- *DEC PrintServer Supporting Host Software for VMS Installation Guide*
- *DEC PrintServer Supporting Host Software for ULTRIX Installation Guide*

VMS, Version 5.4 or higher requires DEC PrintServer Supporting Host Software for VMS, Version 4.1 or higher.

The following variations of ULTRIX require DEC PrintServer Supporting Host Software for ULTRIX, Version 4.1:

- ULTRIX, Versions 4.0, 4.1, and 4.2
- ULTRIX (RISC), Versions 4.0, 4.1, and 4.2
- ULTRIX Worksystem Software, Versions 4.0, 4.1, and 4.2
- ULTRIX Worksystem Software (RISC), Versions 4.0, 4.1, and 4.2

Note

The PrintServer software must be installed before powering on the PrintServer 32 printer. The printer will not power up correctly if the software has not been loaded.

1.3 Prepare the Network

The software installation guides explain how to prepare the network for the PrintServer 32 printer. The PrintServer 32 printer needs the following DECnet or TCP/IP items:

- License for the host system
- Node name for the PrintServer 32 printer
- Node address for the PrintServer 32 printer

2

Unpacking the Print Engine and Cabinet

The print engine and cabinet are assembled and shipped as one unit. This chapter explains how to unpack these components.

Caution

Do not plug in the power cord or apply power to the PrintServer 32 printer until you are instructed to do so.

2.1 Unpacking the Kits

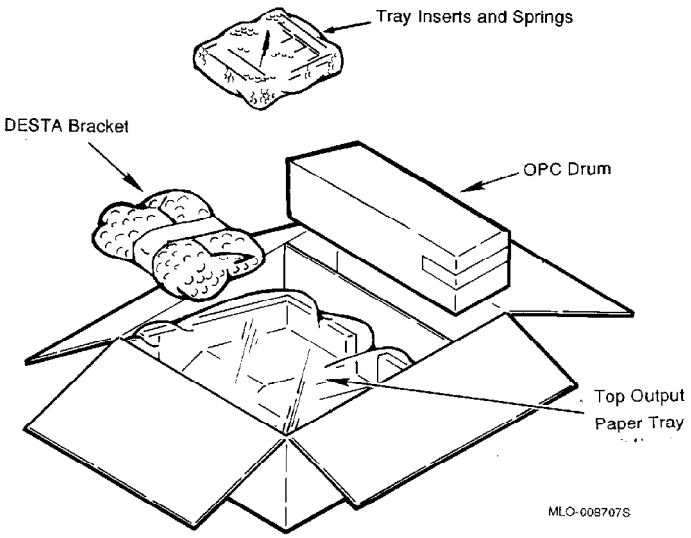
Unpack Shipaway Kits A and B by using the following procedure:

1. Check the contents of Shipaway Kits A and B. (See Figure 2–1 and Figure 2–2.)

   Shipaway Kit A contains:

   - An organic photo conductor (OPC) drum
   - A top output paper tray
   - A DESTA bracket
   - Two plastic tray inserts
   - Four metal springs

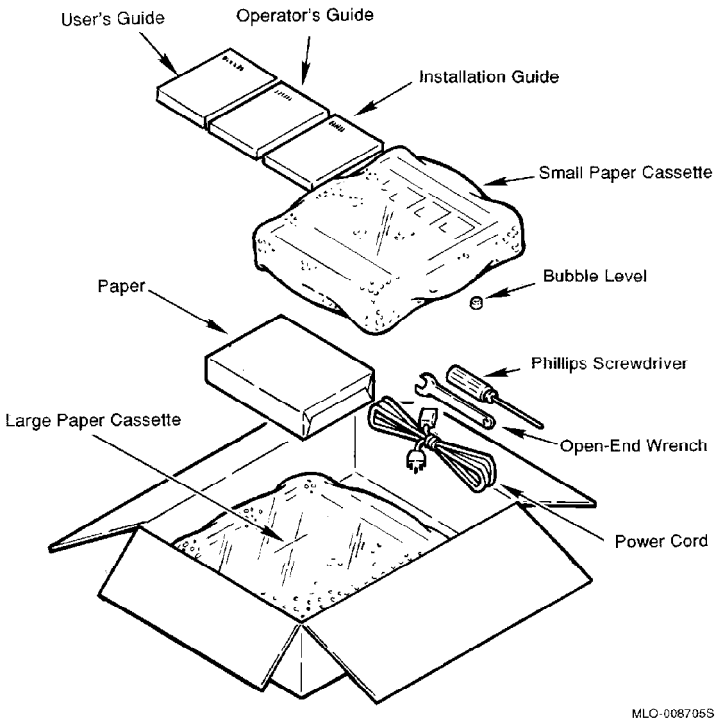
Figure 2–1 Shipaway Kit A



Shipaway Kit B contains:

- *PrintServer 32 Printer Operator's Guide*
- *PrintServer 32 Printer Installation Guide*
- *PrintServer 32 Printer User's Guide*
- A small input paper cassette configured for 11 in. x 8.5 in. (paper size keys and labels for additional paper sizes are included)
- A Phillips screwdriver
- An open-end wrench
- A power cord (U.S. only)
- A large input paper cassette configured for 11 in. x 17 in. (paper size keys and labels for additional paper sizes are included)
- A bubble level
- 250 sheets of paper
  – 8.5 in. x 11 in. (216 mm. x 279 mm.) for the U.S.
  – A4 (297 mm. x 210 mm.) for other countries

Figure 2–2 Shipaway Kit B



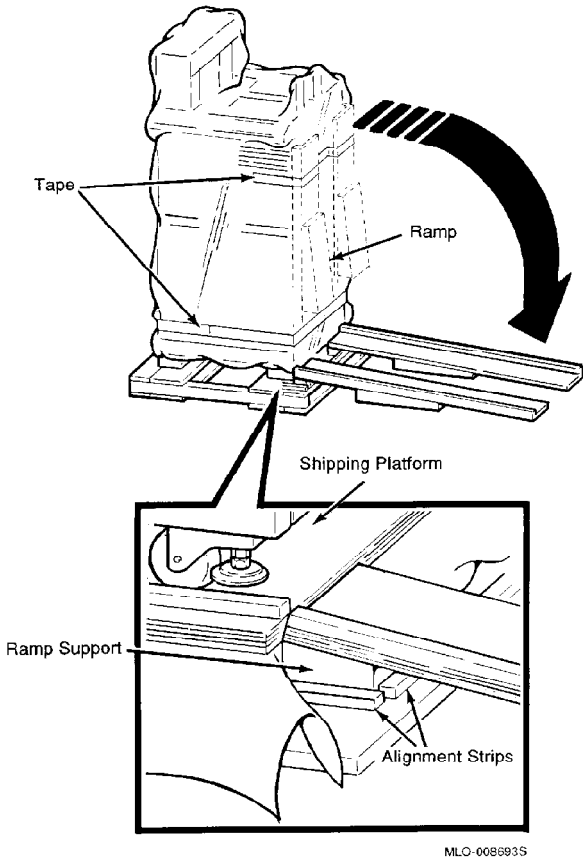
2.2 Moving the Printer from the Shipping Pallet

Remove the printer from its shipping pallet by using the following procedure:

1. Remove the tape holding the wood ramp to the right side of the printer and lower the ramp.

Warning

Be sure the ramp is aligned in front of the printer wheels, and the ramp supports are seated properly between the wood alignment strips and the shipping platform.



2. Remove the tape from the plastic bag around the bottom of the cabinet and lift the plastic bag straight up to remove it.

   → If excess plastic remains around the shipping pallet, you can pull the plastic out of the way or cut it with a razor knife to remove it.

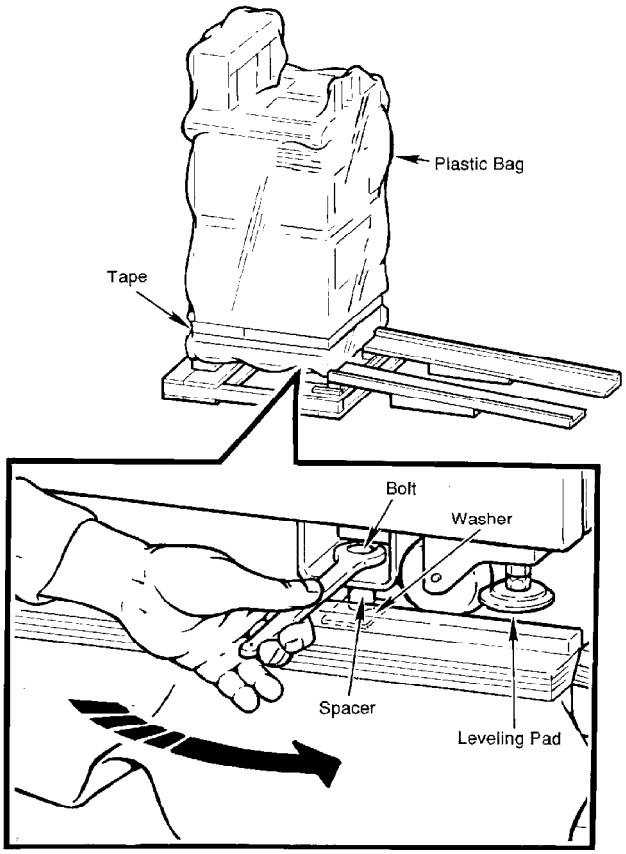
3. Raise the four leveling pads to the full up position by turning them counterclockwise.

4. Remove the four shipping bolts that secure the printer to the pallet. The printer will rest on its wheels.

   → Remove the spacers and square washers.

Note

Discard any silica bags that may be on the shipping platform under the printer.

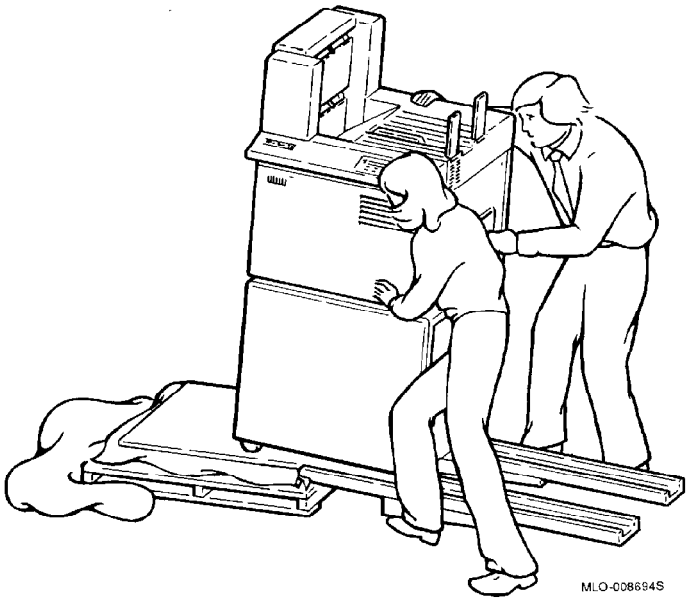

Plastic Bag
Tape
Bolt
Washer
Spacer
Leveling Pad
MLO-008695S

5. Slowly roll the printer down the ramp to its operating location.

   → Leave enough room to easily access all sides of the printer during installation.

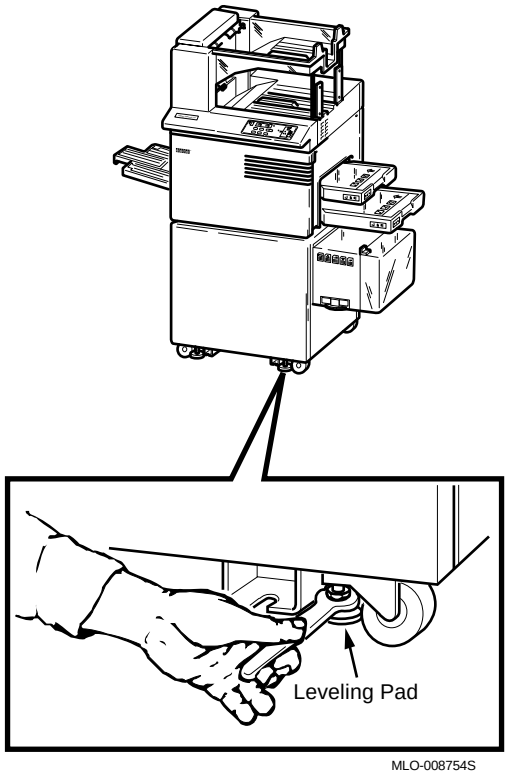
Warning

The printer is heavy. Two people must roll the printer down the ramp to avoid personal injury.



6. Lower the leveling pads to release the wheels from their locked position. This allows the wheels to rotate.

   → The leveling pads should be lowered until they contact the floor to prevent the printer from rolling.



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2.3 Unpacking the Components

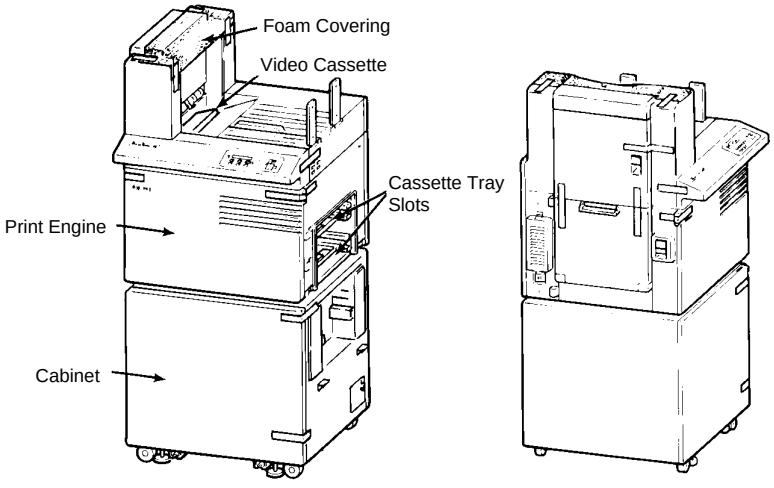
Unpack the printer's components, using the following procedure:

1. Remove the protective foam covering and all shipping tape from the outside of the print engine and cabinet.

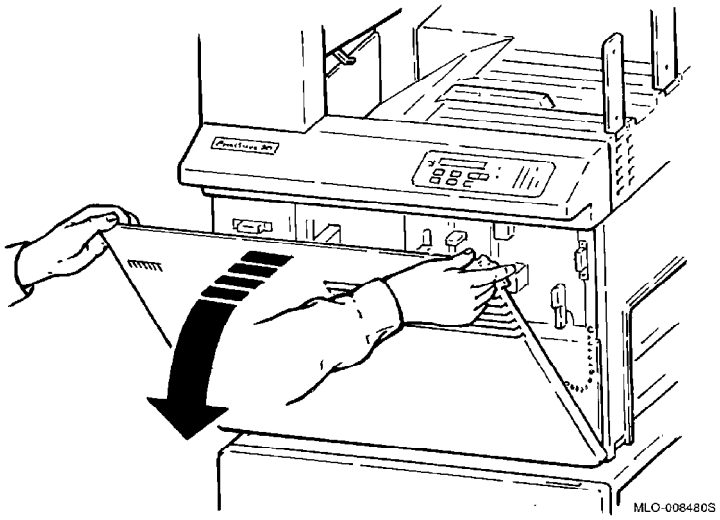
   Also, remove the video cassette from the top of the print engine.

Note

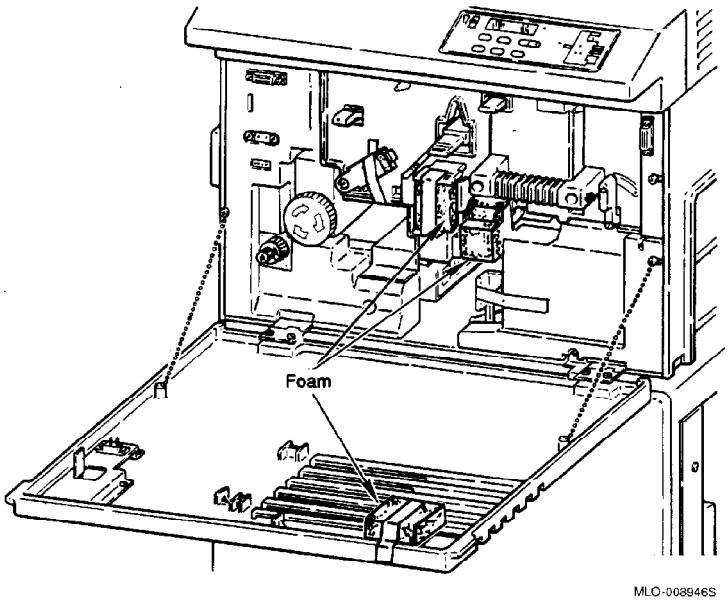
Be sure to remove the two pieces of tape from inside the paper cassette tray slots.



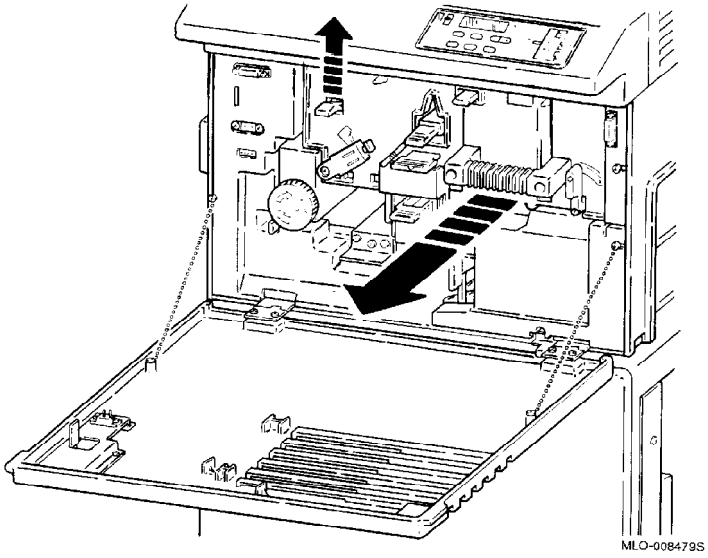
2. Open the front cover of the print engine.



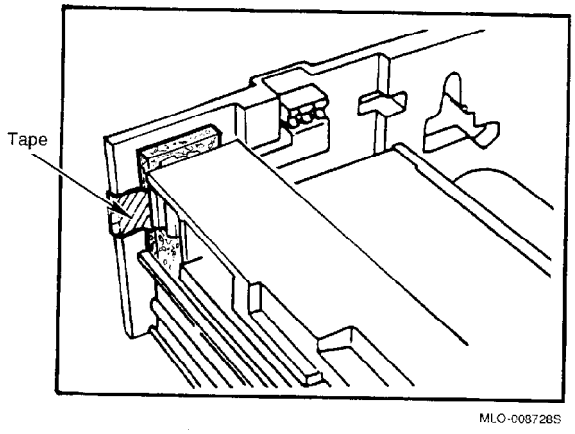
3. Remove the tape and foam padding from the print engine. Also, remove the one piece of tape and foam padding from the print engine cover.



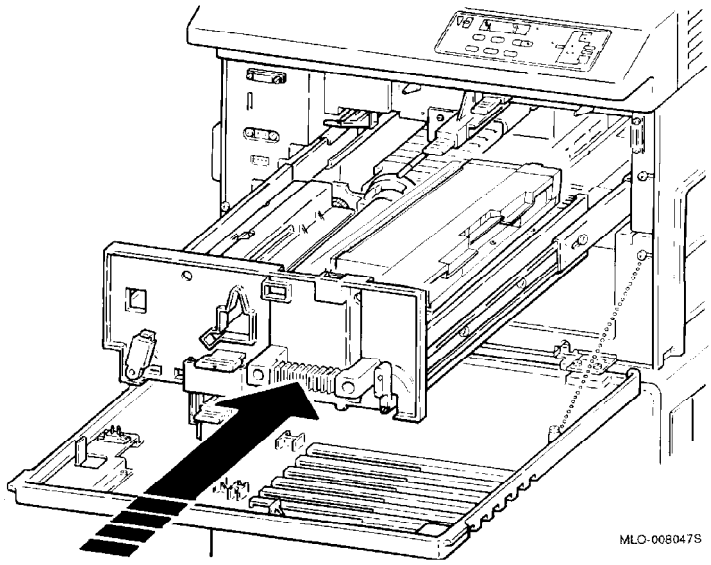
4. Open the development drawer by lifting up the release lever while pulling the drawer out by its handle until it stops.



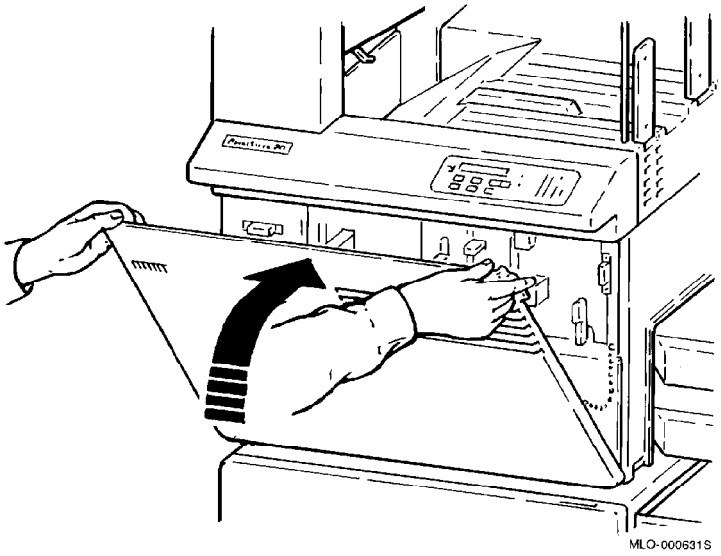
5. Remove the tape and cardboard from inside the development drawer.



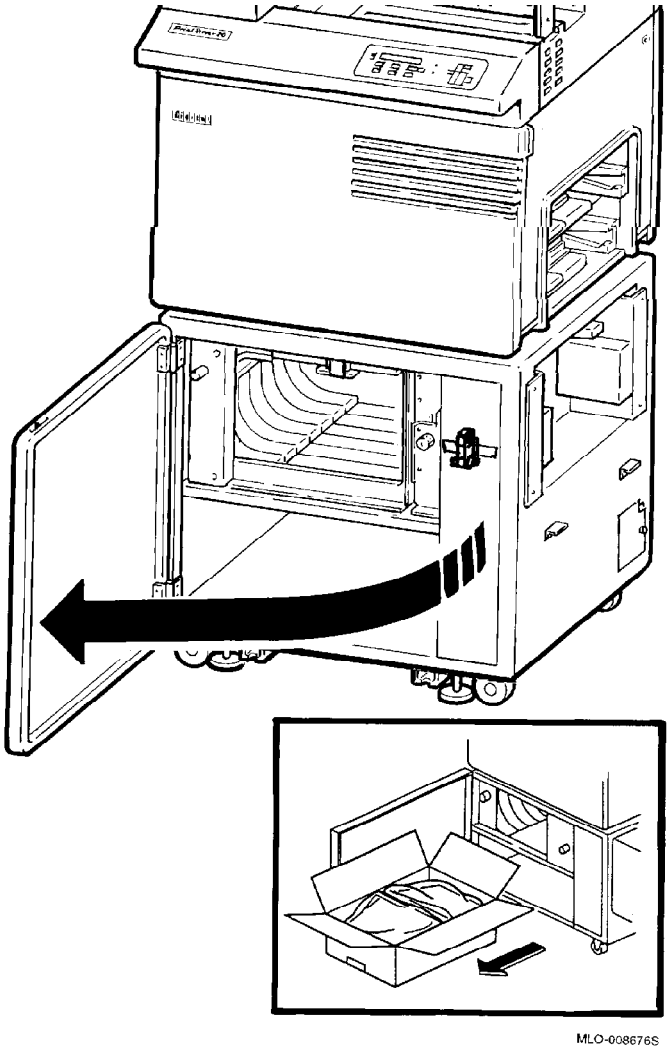
6. Close the development drawer by using the handle to push it back.



7. Close the front cover.



8. Open the cabinet door and remove the tape from the duplex transport guide and the transfer/separation charger cleaner. Remove the carton containing two toner cartridges from the cabinet.



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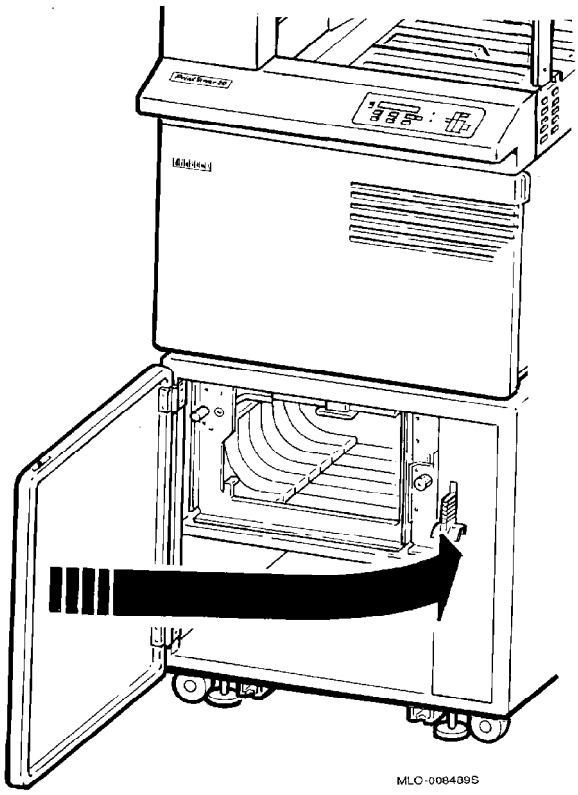
9. Close the cabinet door.



3

Installing the Bottom Paper Tray

The next step in the installation is to install the bottom paper tray into the printer. See the *PrintServer 32 Printer Bottom Paper Tray Installation Guide*, packaged in the box with the bottom paper tray, for instructions on installing the bottom paper tray.

4

Installing the Paper Cassettes

The next step is to install the paper cassettes.

4.1 Assembling the Paper Cassettes

The paper cassettes come partially assembled with sizes based on the country where the printer is shipped. You do not need to reconfigure the paper cassettes unless your prefer to use a paper size different from those in Table 4–1. If you need to reconfigure the paper cassettes, use the instructions included with the cassettes.

However, you must install the metal keys included with the cassettes. These keys help the PrintServer 32 identify the paper size in the cassette. Refer to the instructions included with the cassettes. Also, apply the paper size labels to the cassettes.

Table 4–1 Paper Cassette Configurations

Cassette Size	U.S. Configuration	International Configuration
Small Cassette	Letter (11 in. x 8.5 in.)	A4 (297 mm. x 210 mm.)
Large Cassette	Ledger (11 in. x 17 in.)	A3R (297 mm. x 420 mm.)

Note

The first number indicates the leading edge of the paper to enter the printer. For example, the 11-inch edge of paper is the leading edge for the 11- by 8.5-inch paper.

Refer to the instructions packaged with the cassettes to complete the assembly by installing the metal keys and applying the paper size labels.

The Phillips screwdriver necessary to reconfigure the cassettes is in Shipaway Kit B. The procedure is the same for both the large and small paper cassettes.

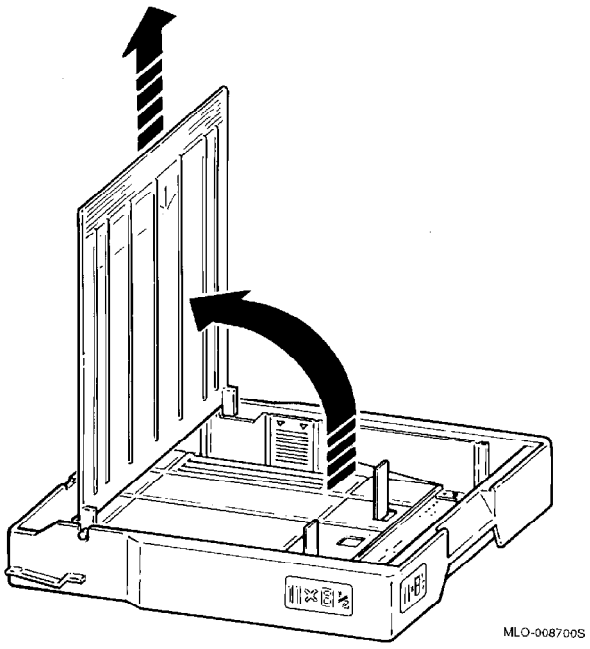
4.2 Adding Paper to the Paper Cassettes

Add paper to the paper cassettes, using the following procedure.

Note

This procedure is the same for both the large and small paper cassettes.

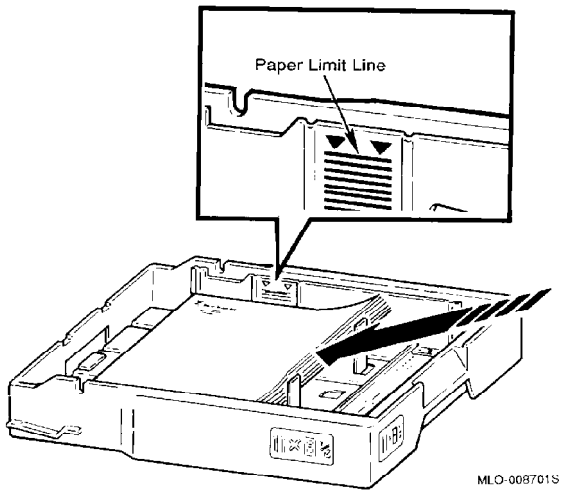
1. Remove the paper cassette cover.



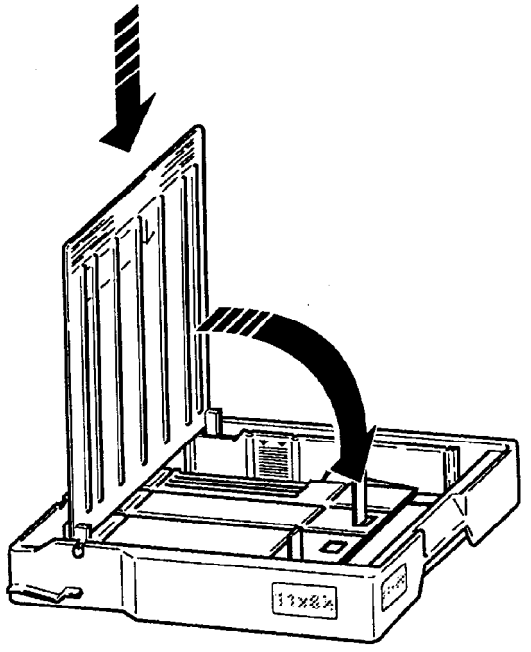
2. Add the paper to the cassette.

Caution

Use only high-quality paper, as listed in Appendix B of the *PrintServer 32 Printer Operator's Guide.* Do not add paper above the limit line on the paper guide (about 250 sheets of 20-lb. paper). Adding paper above the limit line puts stress on the paper cassette motor and causes paper jams.



3. Place the cover back on the cassette.



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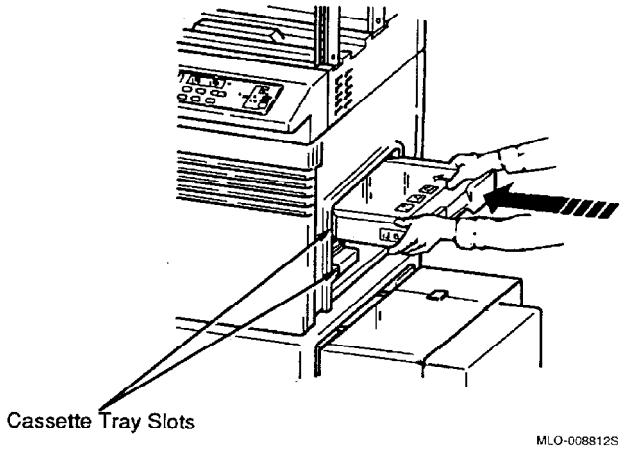
4.3 Installing the Paper Cassettes

Insert the paper cassette by sliding it straight into the top or bottom cassette slot until it drops into position.



Repeat this procedure for the second paper cassette.

Proceed to Chapter 5 to install the top output paper tray.

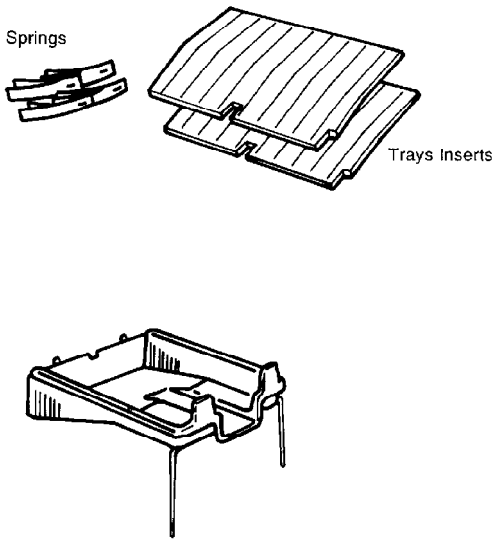
5

Installing the Top Output Paper Tray Components

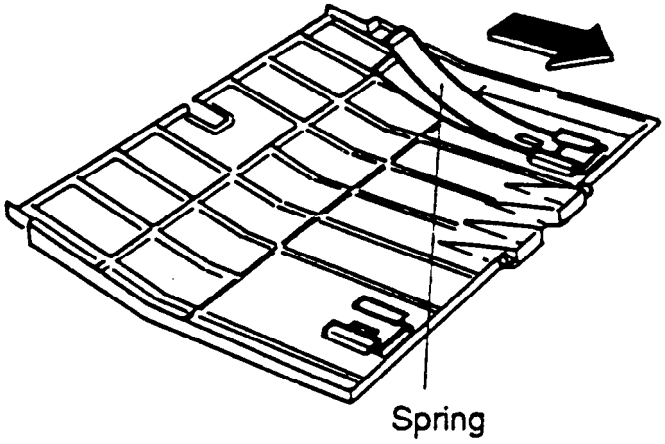
5.1 Assembling the Paper Tray Inserts

Use the following procedure to install the paper tray inserts:

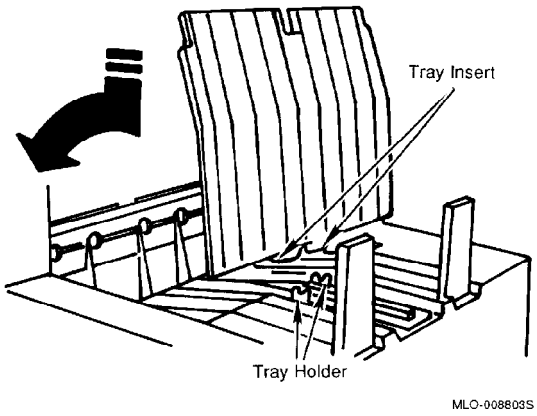
1. Unpack the following components from Kit A:
   - Two plastic tray inserts
   - Four springs
   - Top output paper tray



2. Slip the springs into the guides under the plastic tray inserts. Insert the springs marked “L” into the tray insert you will use in the lower output tray. Insert the springs marked “U” into the tray insert you will use in the upper output tray.



3. Install a paper tray insert into the lower output tray.



5.2 Installing the Top Output Tray

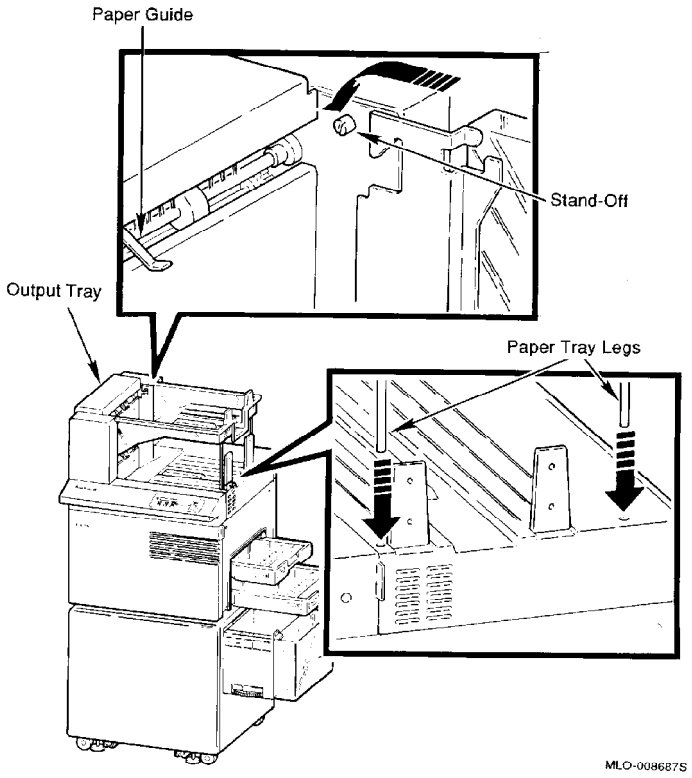
Install the top output paper tray, using the following procedure:

1. Attach the top output paper tray by hanging it on the output unit stand-offs.

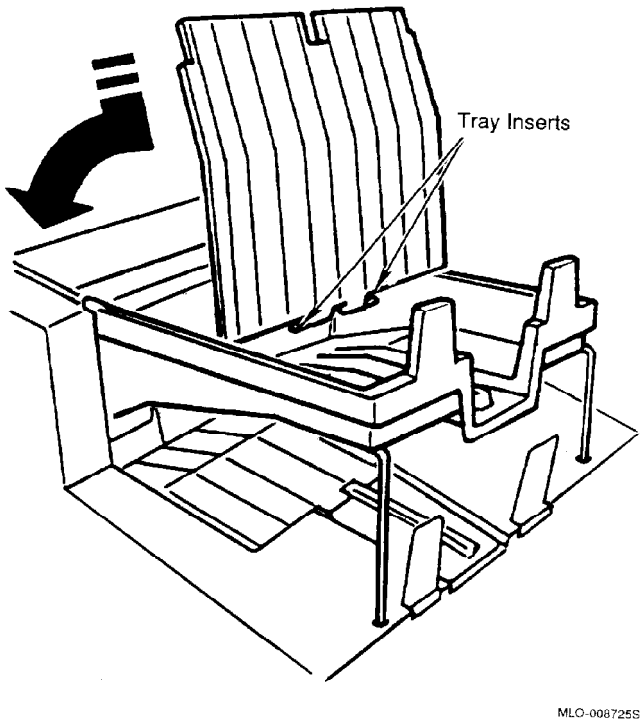
Caution

Take care not to damage the paper guide. Make sure the paper tray hangs securely on the standoffs.

2. Insert the paper tray legs into the holes provided in the bottom output paper tray.



3. Install a paper tray insert into the top output tray.



Proceed to Chapter 6 to add toner.

6

Adding Toner and Installing the OPC Drum

The next step in the installation is to add toner and install the OPC drum.

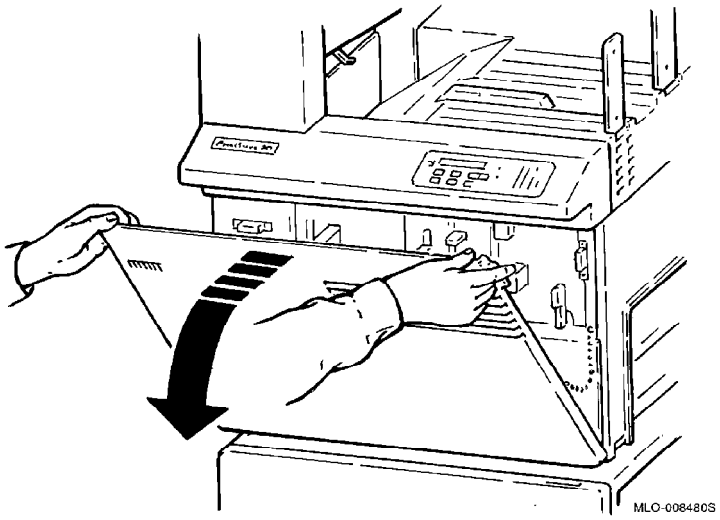
6.1 Adding Toner

Add toner using the following procedure.

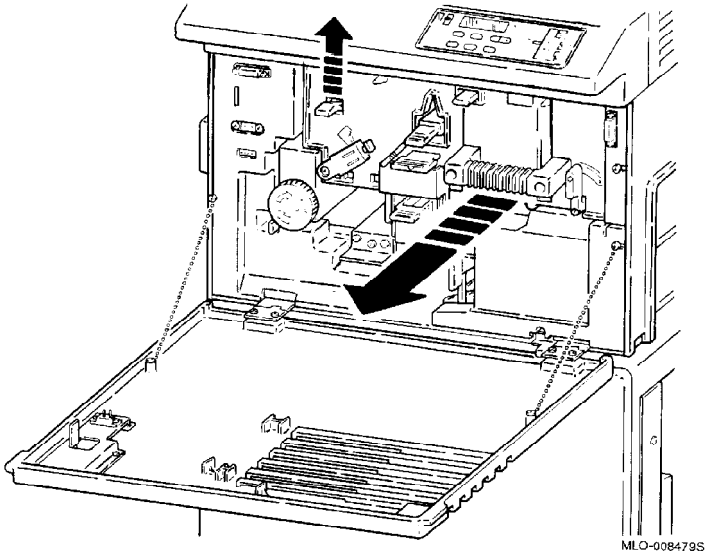
Caution

Although two toner cartridges are shipped with the printer, only one is added at this time. The remaining cartridge can be stored for later use.

1. Open the front cover.



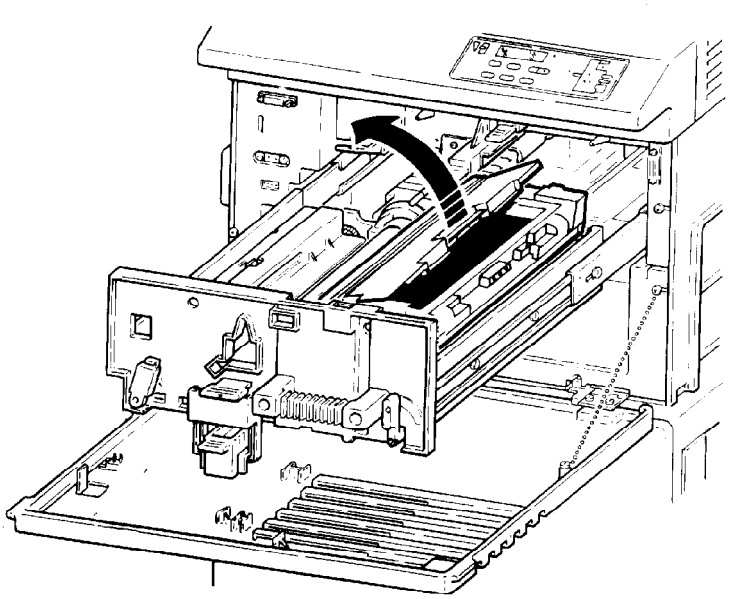
2. Open the development drawer by lifting up the development drawer release lever while pulling the drawer out by its handle until it stops.



3. Open the cover of the development unit by lifting the right side of the cover up and over to the left side of the development unit.

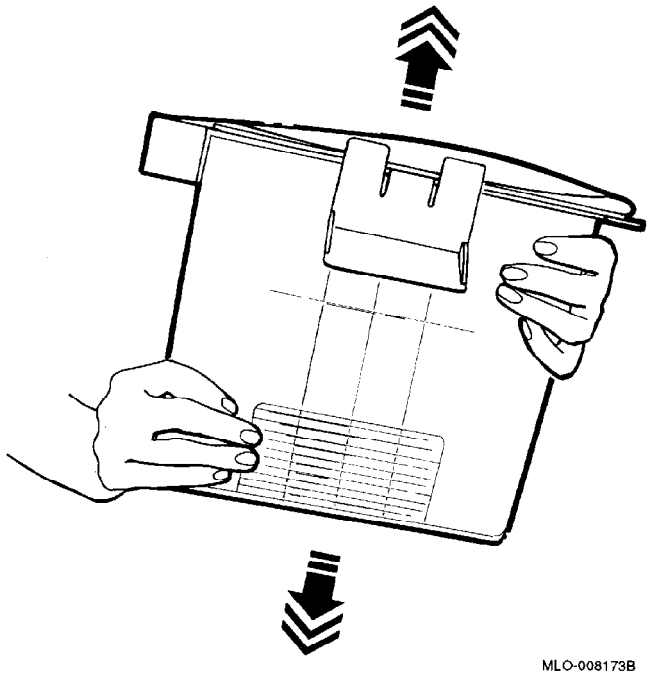
Note

If toner accidentally spills on your clothes or hands, rinse them with soap and **cold** water.



MLO-008037

4. Remove a new toner cartridge from the box and shake the cartridge vigorously for 5 to 10 seconds.



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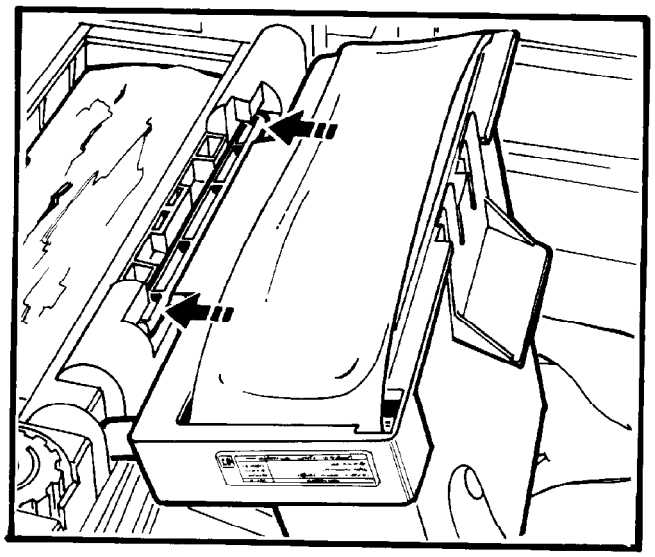
5. Install the right side of the cartridge into the hinges of the frame.



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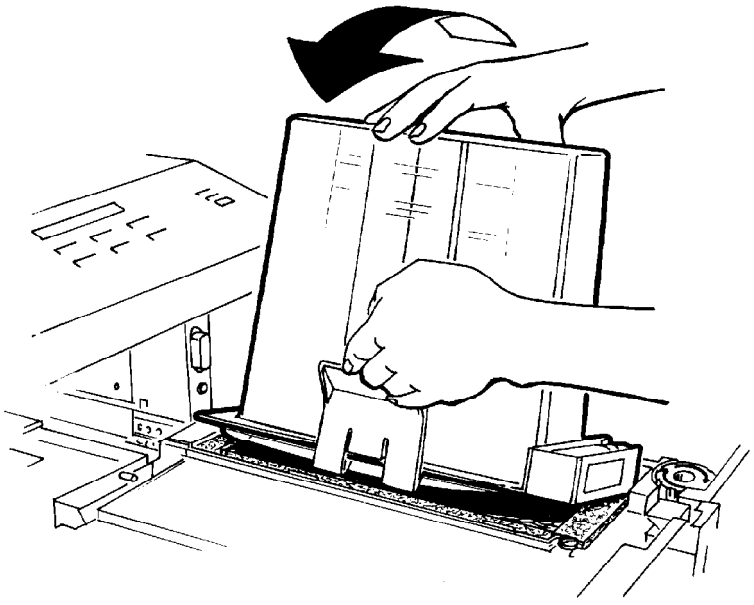
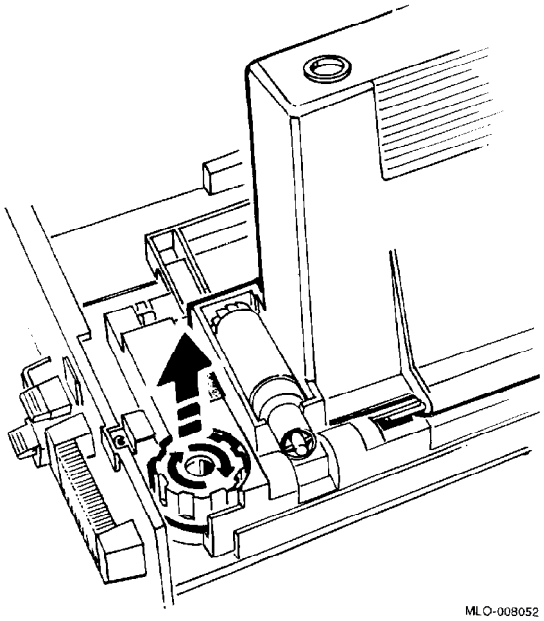
6. Cover the development unit with the cartridge and press the cartridge into position until it clicks.

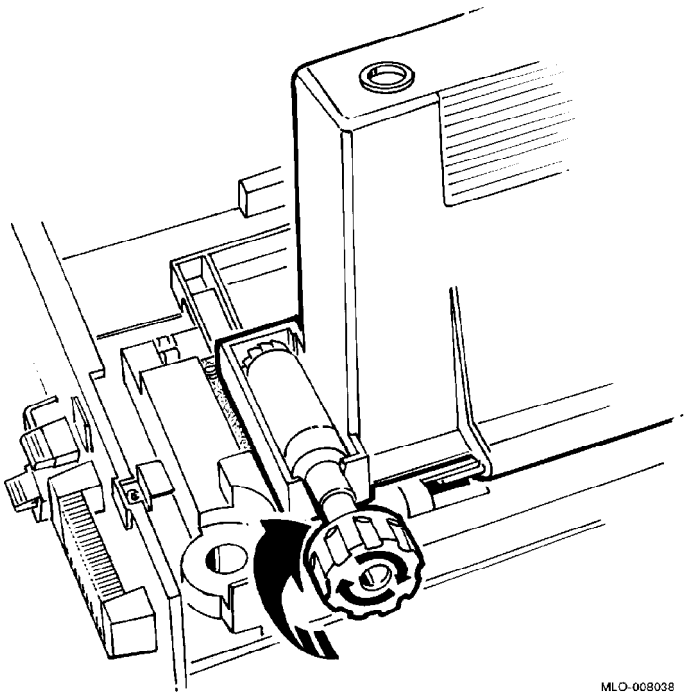


MLO-008174B

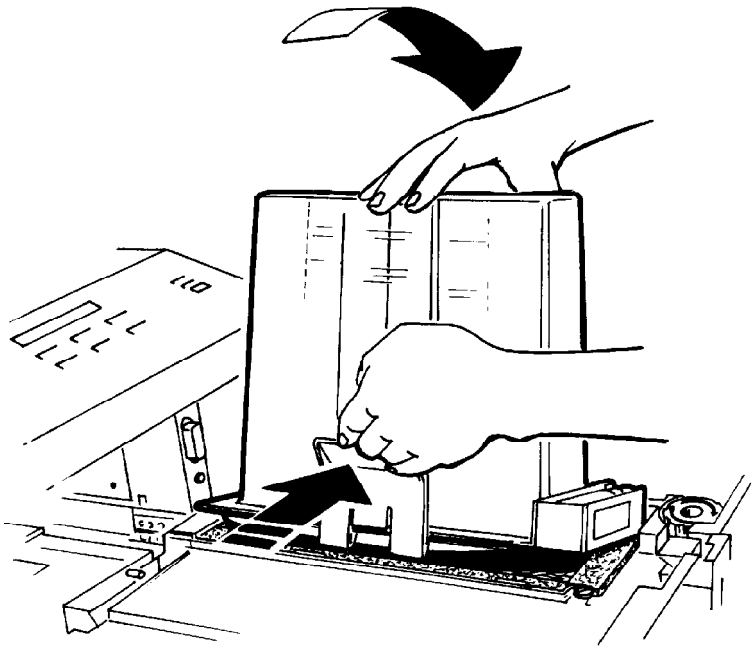
7. Locate the knob on the front of the development unit.



8. Attach knob to the take-up roller and turn the knob clockwise until the red line appears on the take-up roller.

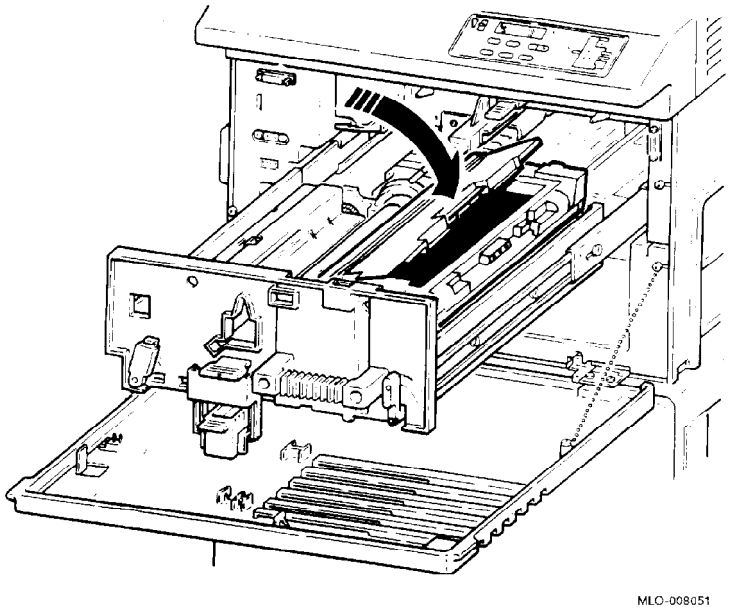


9. Tap the toner cartridge to remove excess toner that may be clinging to the inside of the cartridge.
10. Remove the knob from the take-up roller and place it in the space provided in front of the development unit.
11. Remove the toner cartridge by pressing the tab on the left side of the cartridge and lifting up the left side. Release the right side of the cartridge from its hinges. Discard the cartridge.



MLO-008176

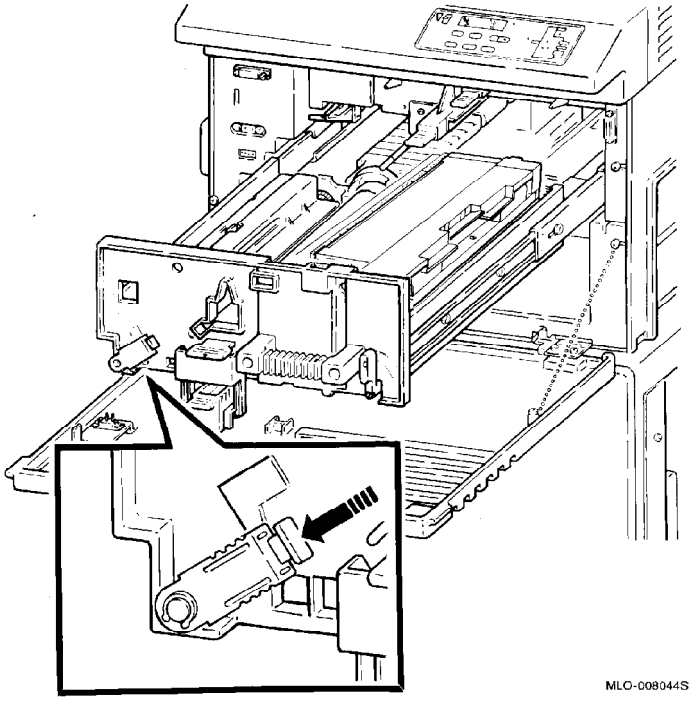
12. Close the cover on the development unit. Press the cover down until it clicks.



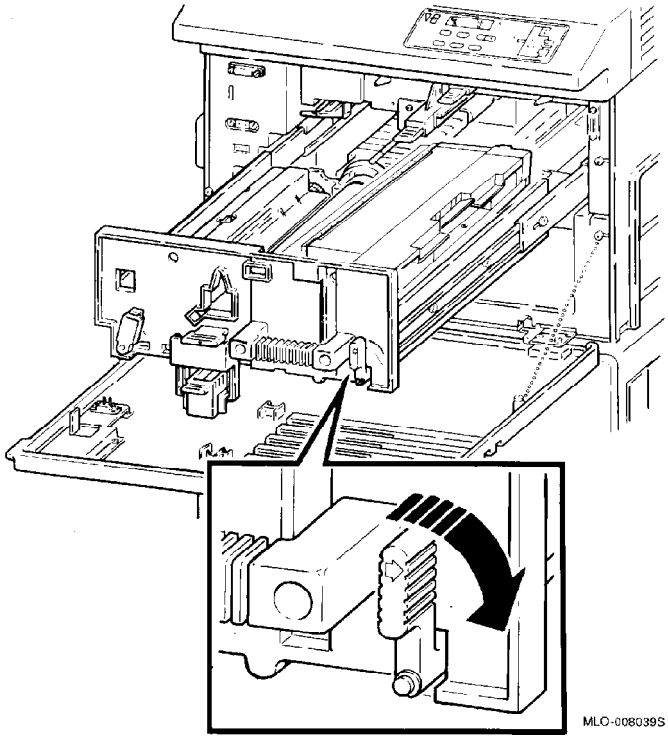
6.2 Installing the OPC Drum

Install the OPC drum, using the following procedure:

1. Press the top of the cleaning unit release lever to disengage the cleaning unit from its operating position. The lever automatically springs to the left.



2. Turn the development unit release lever clockwise to disengage the development unit from its operating position.

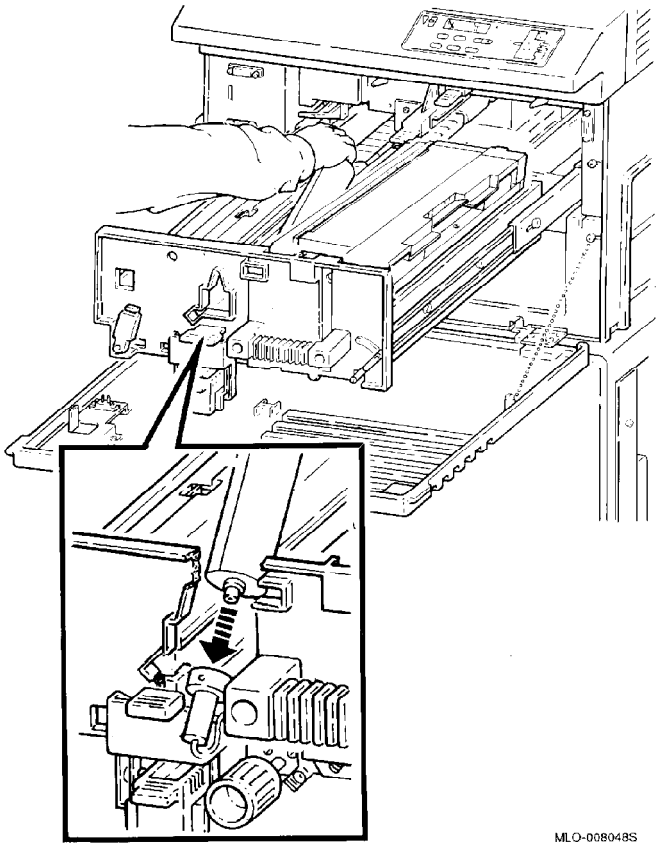


3. Carefully remove the OPC drum from its shipping box.

Caution

Do not remove the black protective sleeve from the OPC drum until instructed to do so. Fingerprints will damage the drum, and the drum degrades if exposed to light for more than 5 minutes.

4. Insert the OPC drum shaft into the round guide at the front of the drawer and carefully lower the drum into position. The release tape for the black protective sleeve should be positioned at the top of the drum.



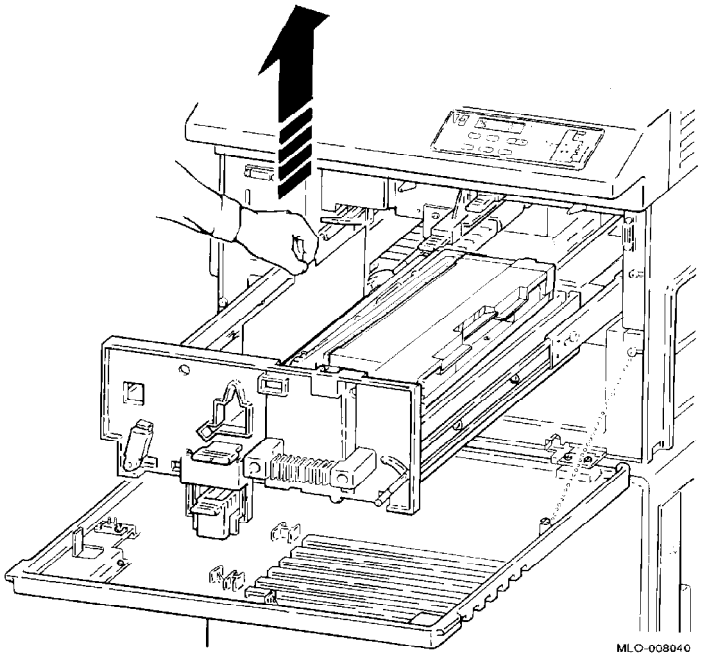
MLO-008048S

5. Remove the black protective sleeve by pulling the release tape straight up.

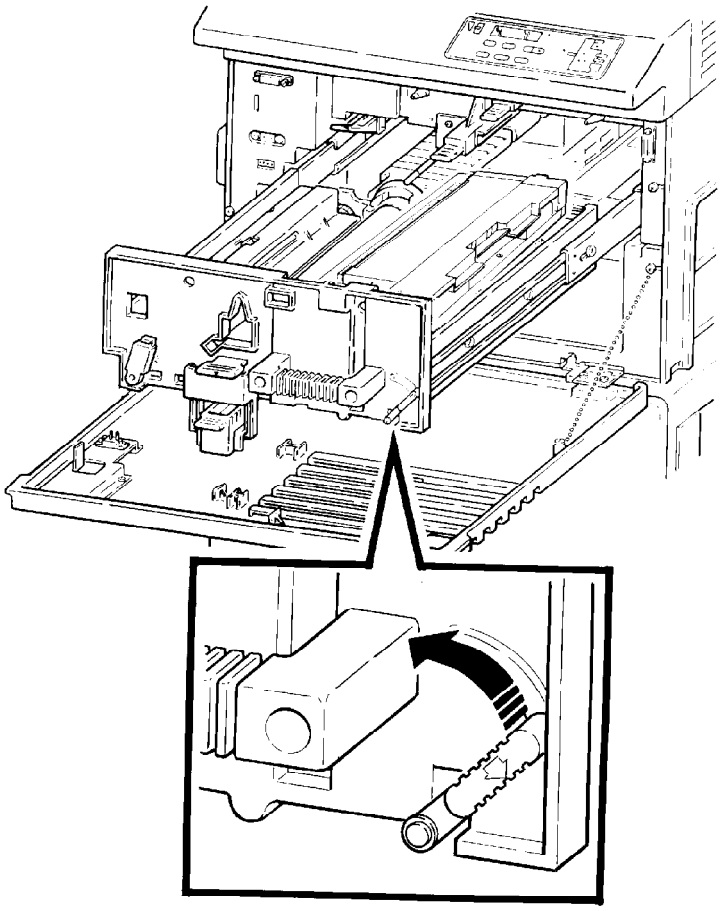
   → Discard the sleeve.

Caution

Removing the sleeve from the drum may lift the drum up slightly. Make sure the drum is seated firmly into position by gently pushing down the far end of the drum. Do not touch the photoconductive surface of the drum.

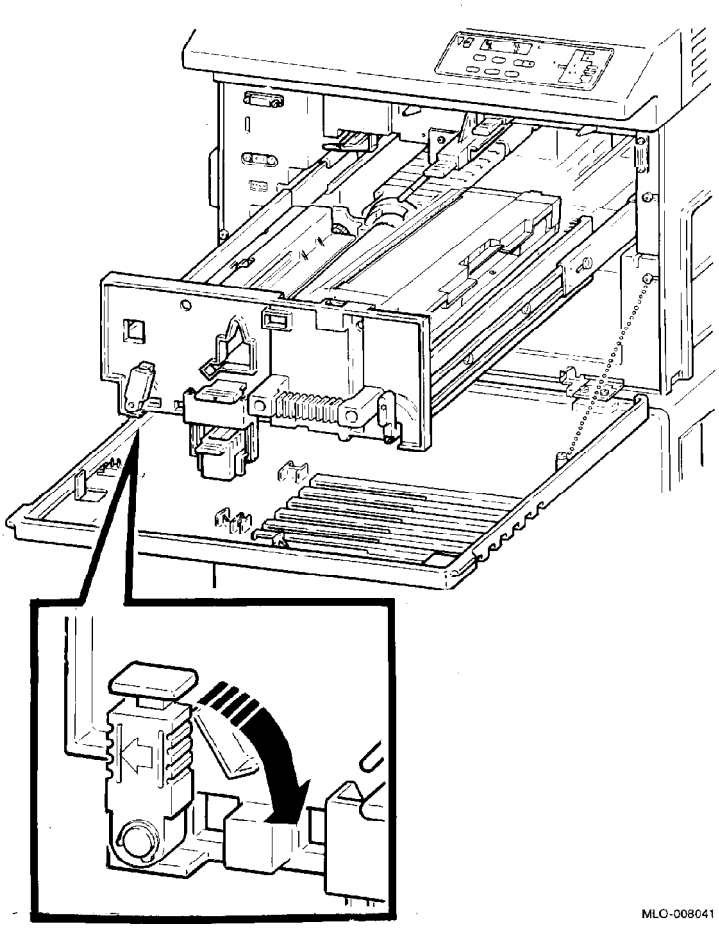


6. Push the development unit release lever back to the operating position.

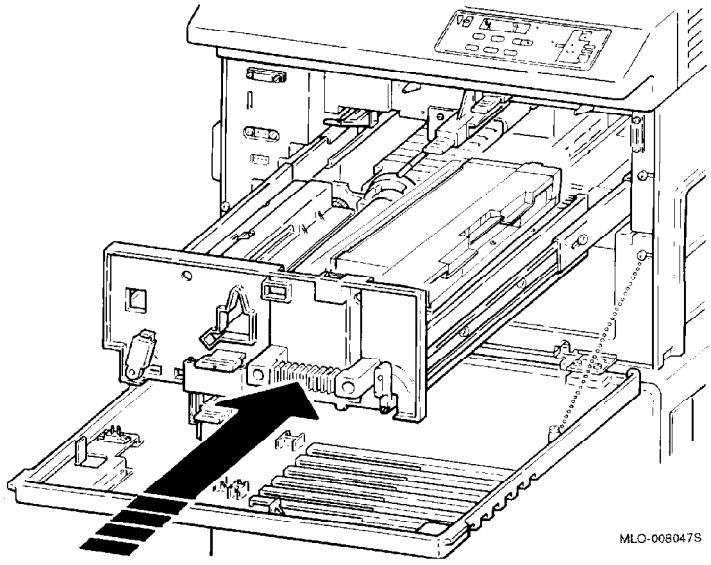


MLO-008049

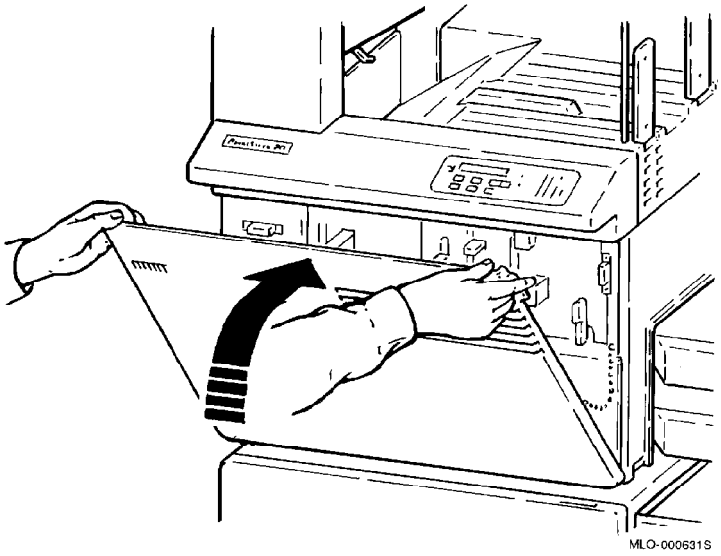
7. Push the cleaning unit release lever back to the operating position.



8. Close the development drawer by using the handle to push it back.



9. Close the front cover.



Proceed to Chapter 7 to install the Ethernet and power cables.

7

Connecting Ethernet and Power Cables

The next step in the installation is to connect the Ethernet and power cables.

You need the following items to connect the PrintServer 32 printer to the Ethernet:

- H4000 Ethernet or DELNI connection
- A standard Ethernet cable

  or

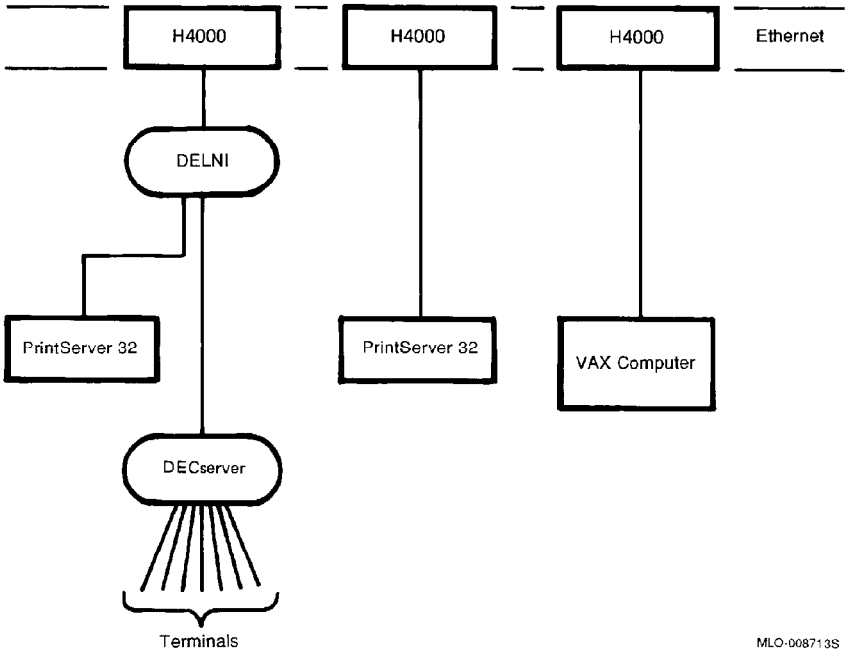
  ThinWire Ethernet cable with a DESTA ThinWire Ethernet Adapter

Note

The H4000 Ethernet, DELNI connection, and DESTA must be configured to produce a "heartbeat", which is necessary to interface the PrintServer 32 with the network. See your DESTA manual or network device manual for configuration information.

Figure 7–1 displays a simple Ethernet with one PrintServer 32 connected to a DELNI and another PrintServer 32 connected to an H4000.

Figure 7–1 Ethernet Block Diagram

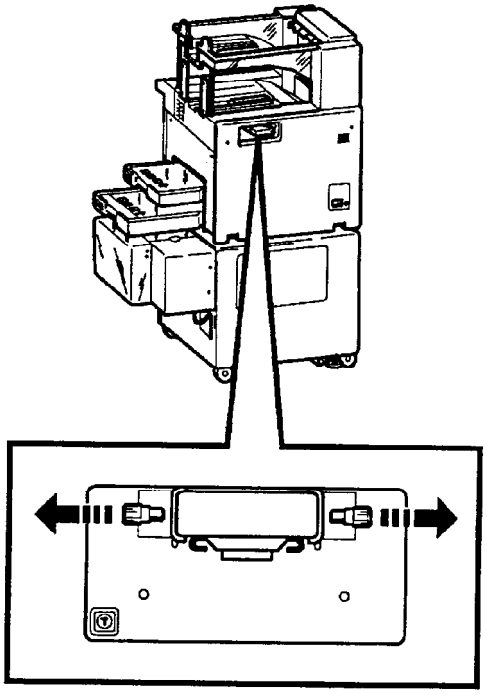


7.1 Connecting the Ethernet Cable

Install the Ethernet cable, using the following procedure:

1. Remove the two thumbscrews from the Ethernet connector.

   → Save the screws for use in step 3.



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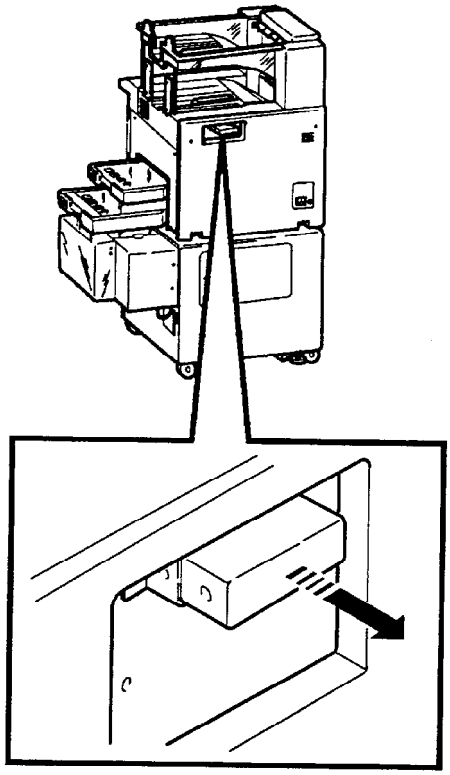
2. Pull the Ethernet connector out to the operating position.



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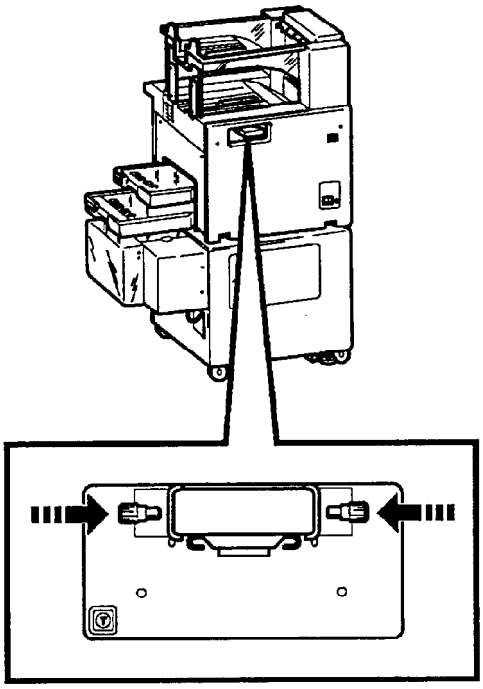
3. Reinstall the two thumbscrews to secure the Ethernet connector in the operating position.



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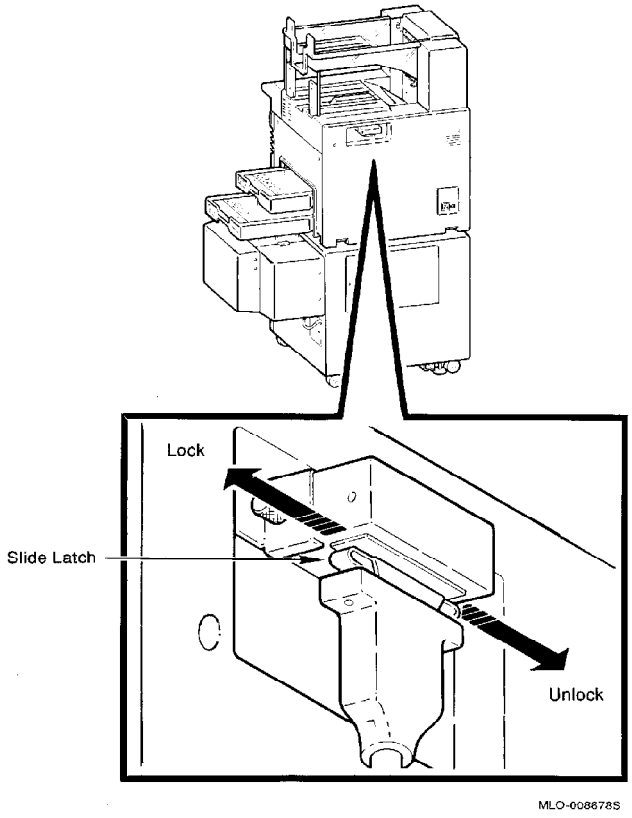
4. If you have a standard Ethernet cable, connect it to the Ethernet connector and push the slide latch left to lock it in place. If you have a ThinWire Ethernet cable, perform the steps in Section 7.2.

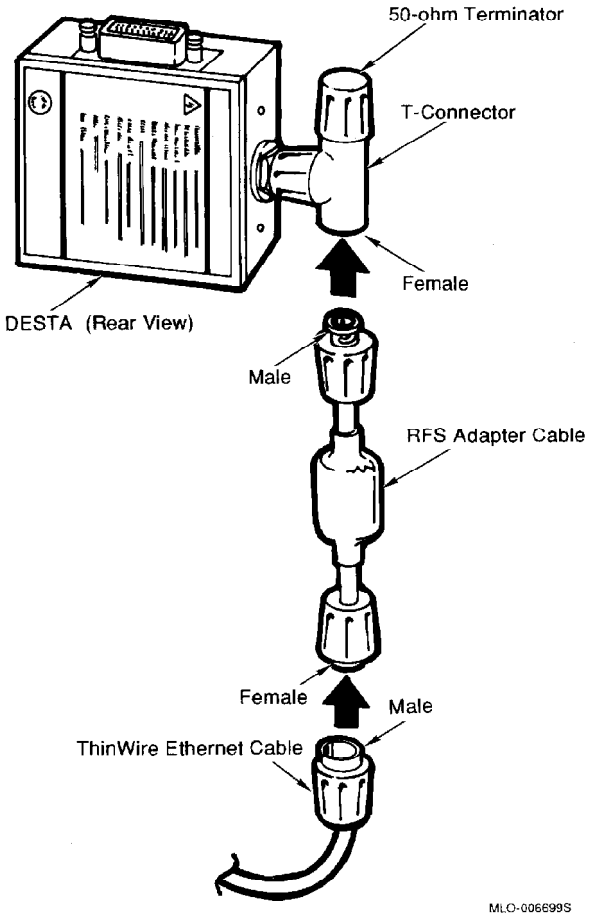


Continue to Section 7.3 to connect the power cord.

7.2 Connecting the ThinWire Ethernet Cable

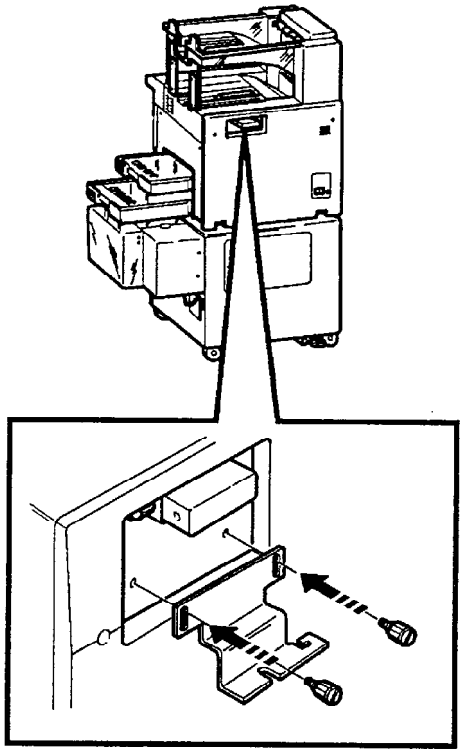
Connect the ThinWire Ethernet cable with the optional DESTA adapter, using the following procedure:

1. Connect the following components in the order given:
   a. Connect the 50-ohm terminator to the T-Connector.
   b. Connect the Radio Frequency Suppression (RFS) adapter cable to the T-Connector.
   c. Connect the ThinWire Ethernet Cable to the RFS adapter cable.
   d. Connect the T-Connector to the DESTA.



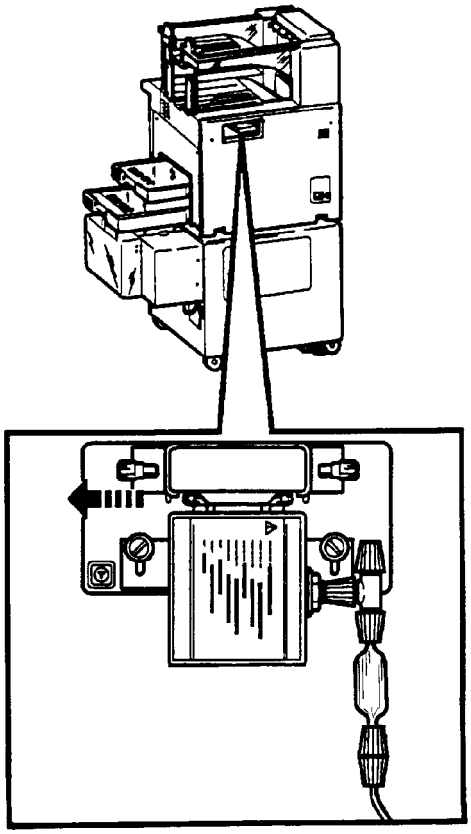
2. Install the DESTA bracket to the printer, using the two thumbscrews provided.

   → Do not tighten the thumbscrews at this time. The DESTA bracket should be in its lowest position.

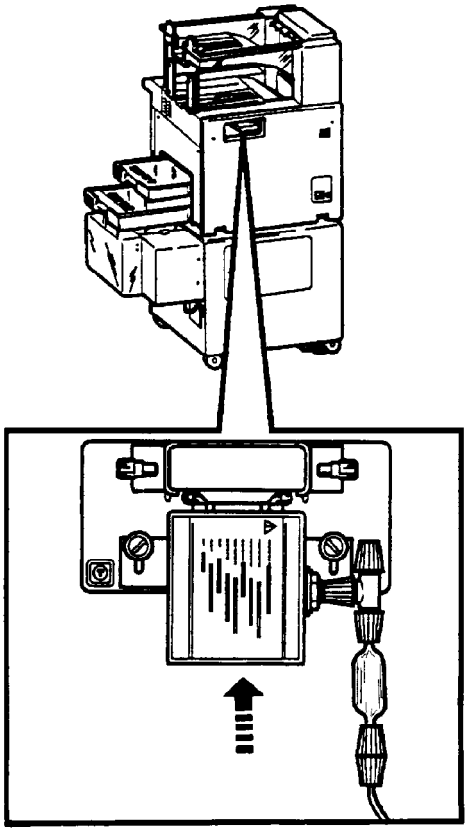


MLO-008716S

3. Connect the DESTA to the Ethernet connector and push the slide latch left to lock it in place.
   - The back of the DESTA should be facing you.



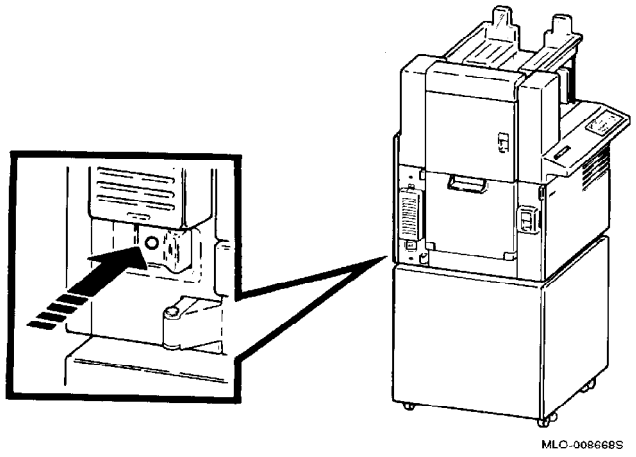
4. Raise the bracket until it touches the DESTA and tighten the two thumbscrews.



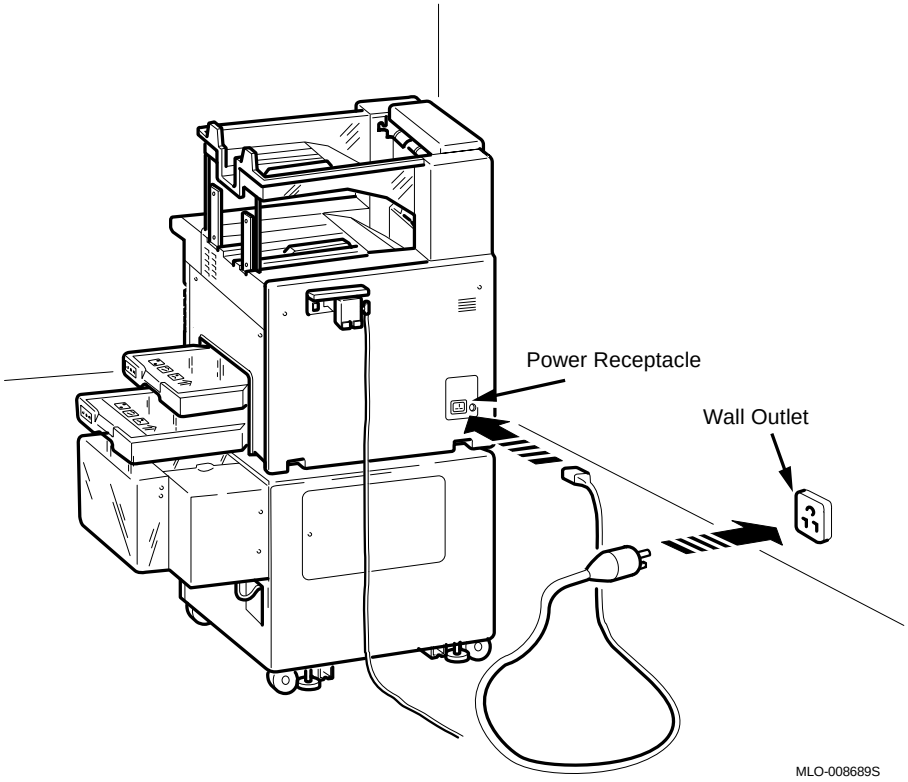
7.3 Connecting the Power Cable

Connect the power cable from the printer to the wall outlet, using the following procedure:

1. Check to be sure the power switch is in the 0 (OFF) position.



2. Connect one end of the power cord to the AC input power receptacle at the rear of the printer.
3. Plug the other end of the power cord into the wall outlet.



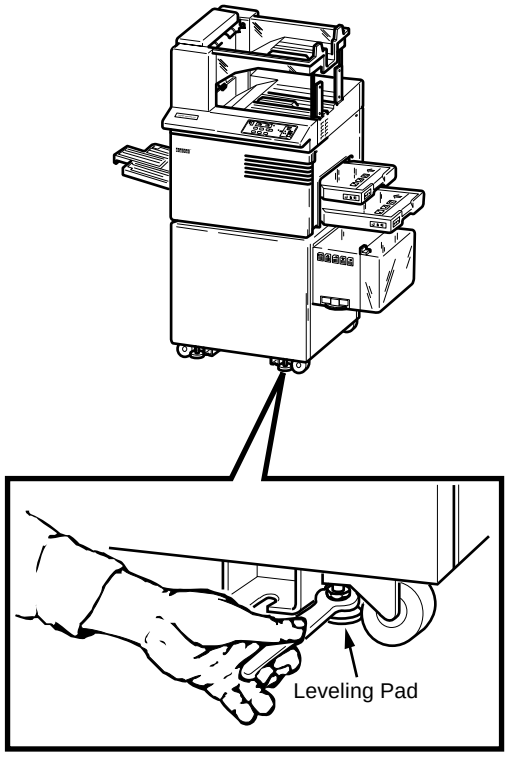
Proceed to Chapter 8 to level the printer.

8

Leveling the Printer

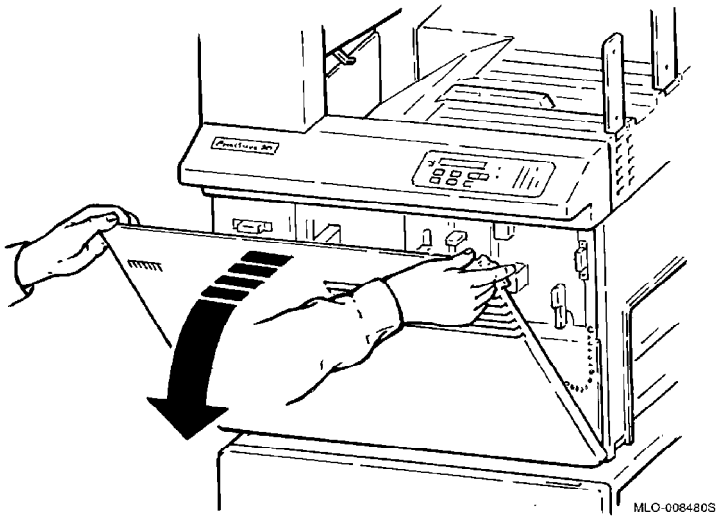
The final step in setting up the PrintServer 32 printer is to level it. Level the printer, using the following procedure:

1. With the wrench, raise the four leveling pads enough to move the printer to its permanent operating position.
2. Lower all the leveling pads until they just touch the floor.



MLO-008754S

3. Open the front cover.



4. Place the bubble level on the print engine baseplate.

   The printer is sufficiently level if at least half the bubble is in the center circle of the level.

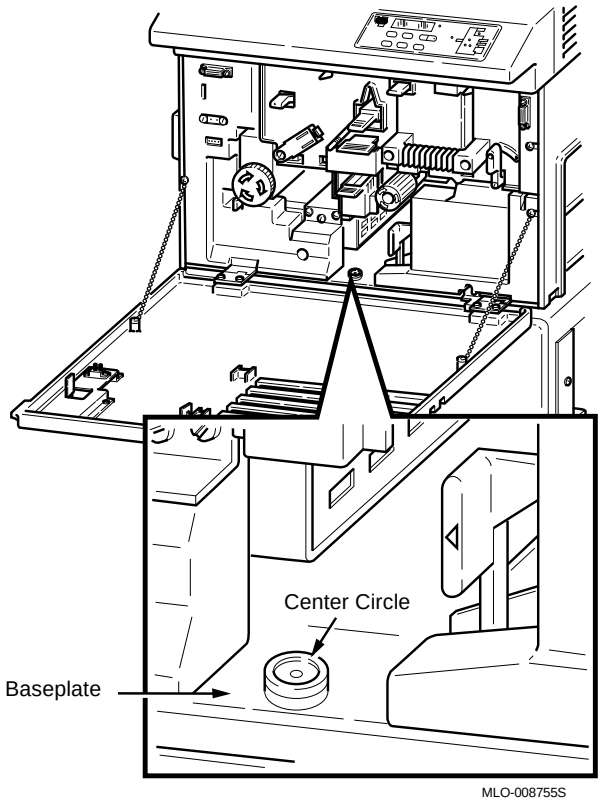
   If the printer is not level, adjust the two rear leveling pads first, then adjust the two front leveling pads.

   → Remove the level from the printer.

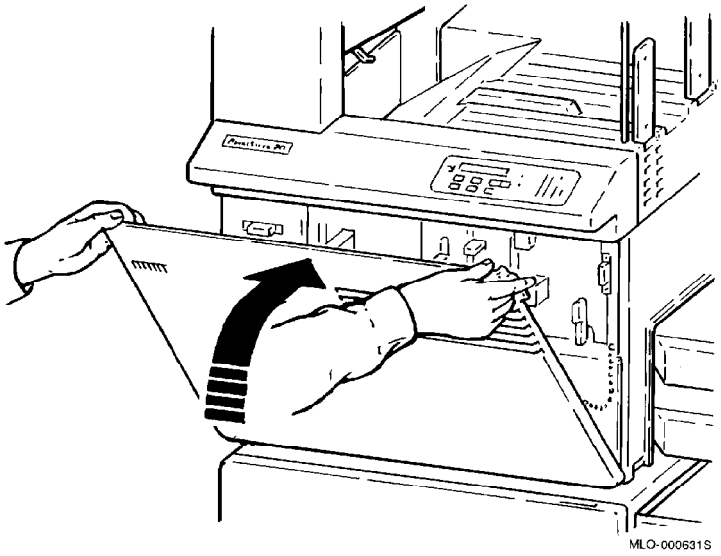
   → Store the level in the printer cabinet.

Note

All four leveling pads should touch the floor when leveling is completed.



5. Close the front cover.



6. Proceed to Chapter 9 to power up the printer.

9

Running the Power-Up Test

This chapter explains how to power up the PrintServer 32 printer and check for correct operation. It also tells you what to do if you have a problem with the installation.

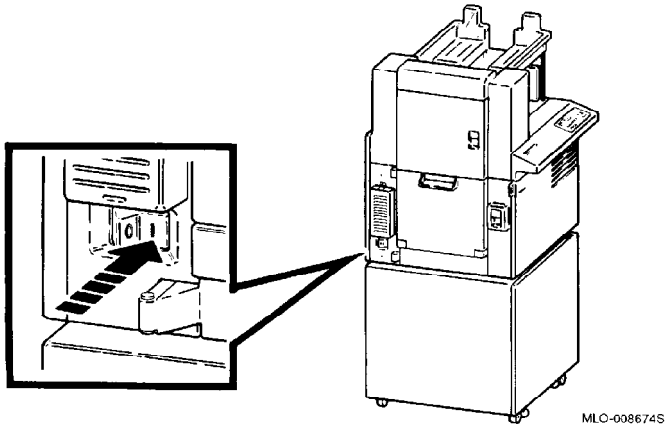
Note

Install the software before powering up the PrintServer 32. The printer does not power up correctly if the software has not been installed.

9.1 Powering on the Printer

The power-up test runs automatically each time the PrintServer 32 powers on. Power on the printer, using the following procedure:

1. Press the power switch on the left side of the printer to the 1 (ON) position.



- All the lights on the operator panel flash.
- The printer performs a diagnostic self-test routine. The message display shows the test countdown (9 to 0) during warm-up time.
- The message display shows the Ethernet address on the top line and the firmware version number (for the controller, engine, and table) on the bottom line.

Note

Write down the Ethernet address in case you need to refer to it for diagnostic purposes.

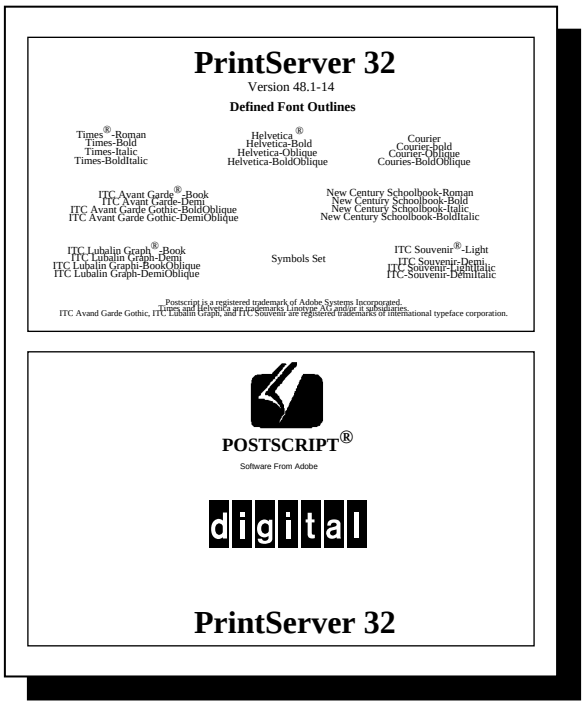
Example:

12–34–56–78–9A–BC
2.0 1.2 1.1

- The message display then reads:
  VAX ELN V4.x LPS32
  . . .
  Copyright 1992
  Digital Equipment Corp.
  Please wait . . .
  Initializing . . .
- The printer remains in the initializing state until it prints a PostScript startup page.

Note

The startup page prints only if the printer is configured to generate it.



MLO–008752S

- The message display reads:
  Ready

  The Ready message indicates a successful power up and software boot.

9.2 If You Encounter Problems

If you have a problem with the installation or if the printer does not power up correctly, call the Digital Support Line for help.

Before you call, see the *PrintServer 32 Printer Operator's Guide* for information about troubleshooting and what you need to know before calling for help.

In the continental United States, call 1–800–272–2001.

In Alaska, Hawaii, Canada, and Europe, call your local sales office.

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