



# Optra™ C710

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## Setup Guide

September 1999

## First Edition (September 1999)

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## Safety Information

- If your product is NOT marked with this symbol , it MUST be connected to an electrical outlet that is properly grounded.
- The power cord must be connected to an electrical outlet that is near the product and easily accessible.
- Refer service or repairs, other than those described in the operating instructions, to a professional service person.
- This product is designed, tested and approved to meet strict global safety standards with the use of specific Lexmark components. The safety features of some parts may not always be obvious. Lexmark is not responsible for the use of other replacement parts.
- Your product uses a laser, exercise **CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**
- Your product uses a printing process that heats the print media, and the heat may cause the media to release emissions. You must understand the section in your operating instructions that discusses the guidelines for selecting print media to avoid the possibility of harmful emissions.

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# Using your documentation

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## About this book

This *Setup Guide* contains all the information you need to set up your new Optra C710 Color Laser Printer. This manual provides detailed instructions for unpacking your printer, installing options, loading paper or media in the trays or multipurpose feeder, and launching the CD to install printer drivers and utilities.

A handy feature included with your manual is the step or procedural information located on the bottom of each page next to the page number. When searching for a topic, use this handy reference feature to quickly locate the information you need.

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**Note:** Refer to the safety information in the front of this book before setting up your printer. Also refer to the notices in the back of the *User's Guide*.

The easy step-by-step format of the manual lets you concentrate on printer setup without burdening you with details about printer features or functions.

When you have completed setup and find you need more information about your printer, refer to the *User's Guide*. It provides information about printer settings, color functions, media specifications, printer supplies, memory requirements, and solving printer problems.

## Conventions

It may help you to recognize the conventions we have used in this book:

- Operator panel buttons are printed in a boldface type for example:

Press **Go** after changing a menu setting.

- Messages that appear on the operator panel display are also printed in a boldface type:

If **88 Black Toner Low** appears on the operator panel display, you must install a new black print cartridge before you can resume printing.

- Notes, warnings, and cautions appear in the left column for easy reference.

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**Note:** A note provides auxiliary information you may find useful.

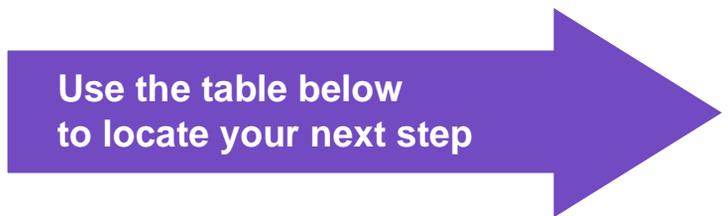
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**Warning!** A warning identifies something that might damage your printer hardware or software.

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**Caution!** A caution identifies something that might cause you harm.

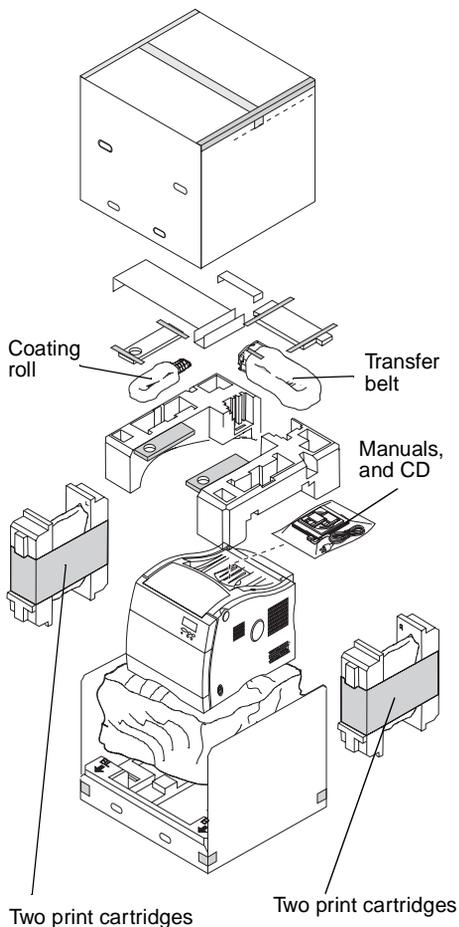
- On selected pages, optional steps you may want to skip or information about steps you may need to perform are identified in a colored arrow and table like the one shown below.



See...
Step 1: "Unpack the printer" on page 3
Step 2: "Install memory and network options" on page 7
Step 3: "Set up the optional drawer unit" on page 31
Step 4: "Install the optional duplex unit" on page 37
Step 5: "Position the printer" on page 47

# Step 1: Unpack the printer

**Caution!** This printer weighs 35 kg (77 lb) and requires at least two people to lift it.



## 1 Remove the coating roll, transfer belt, print cartridges, and other accessories from the carton.

Do not remove the print cartridges, transfer belt, or coating roll from their individual packages until you are ready to use them.

If any items are missing or damaged, refer to the registration card for the Lexmark phone number for your country.

## 2 Place the carton and packing material aside.

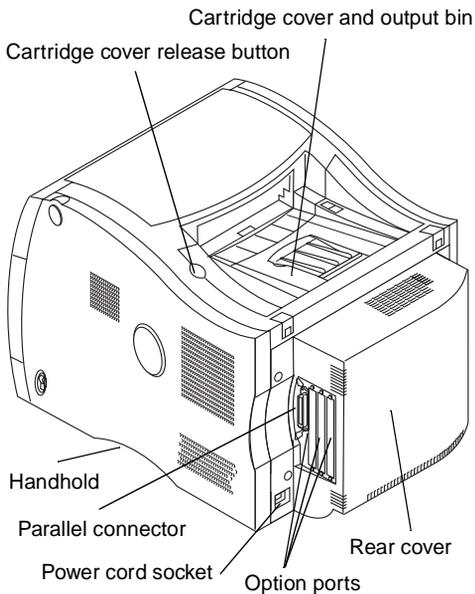
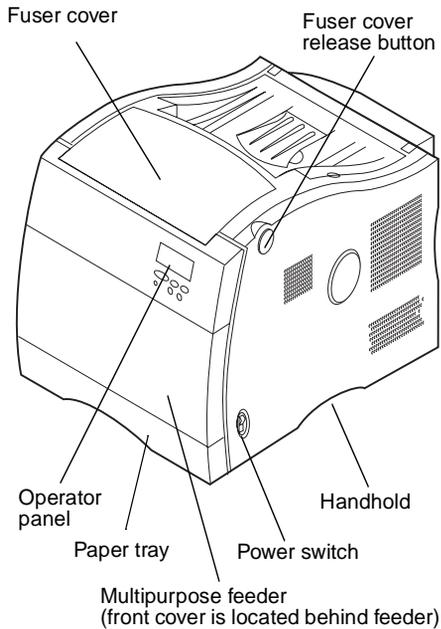
Save the carton and packing materials in case you need to repack the printer.

## 3 Make sure you have the items listed below.

- Coating roll
- Transfer belt
- Setup Guide
- Quick Reference Card
- User's Guide
- Drivers, MarkVision and Utilities CD
- Power cord
- Printer
- Black, magenta, cyan, and yellow print cartridges

## Identifying printer parts

Take a moment to familiarize yourself with the terms, and location of various items on your new printer. This will benefit you during the setup of your printer. We will use the same terms throughout this book and in your User's Guide.

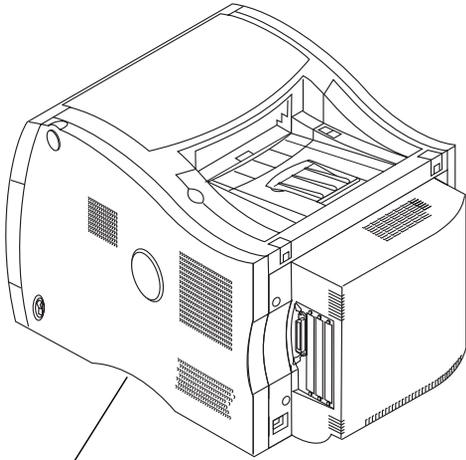


**Caution!** This printer weighs 35 kg (77 lb) and requires at least two people to lift it. Anytime you move or lift the printer make sure you have someone help you.

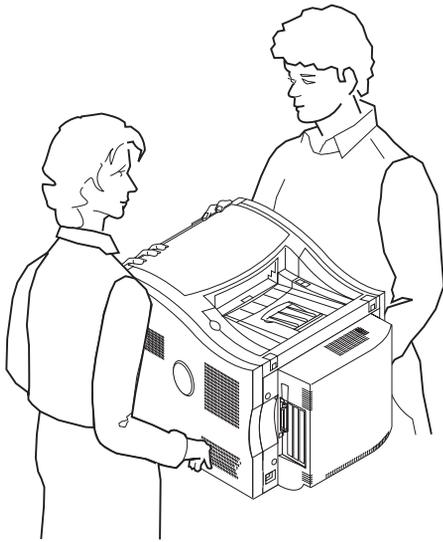
- 4** Have someone help you lift the printer from the carton base.

Use the handholds under the printer and support the front of printer when lifting.

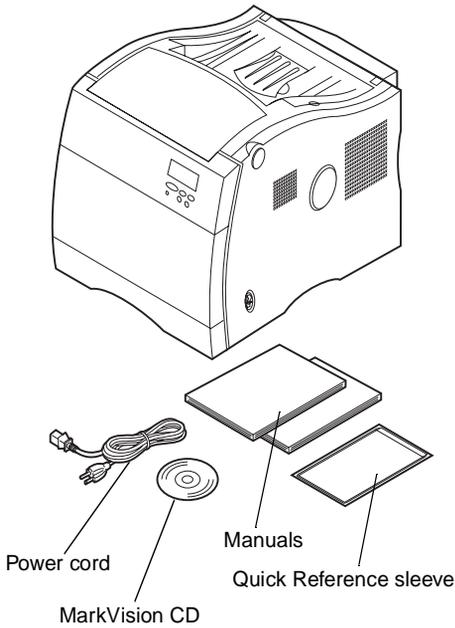
- 5** Place the printer on a flat, stable surface that will be convenient for removing the packing material and installing the components.



Handhold (one on each side)



**Note:** Do not remove the print cartridges, transfer belt, or coating roll from original packing material until you are ready to use them.



**6 Remove the orange tape and other packing material from the exterior of the printer.**

Use the table below to locate your next step

**See...**

Step 2: "Install memory and network options" on page 7

Step 3: "Set up the optional drawer unit" on page 31

Step 4: "Install the optional duplex unit" on page 37

Step 5: "Position the printer" on page 47

# Step 2: Install memory and network options

You can add memory and interface ports to your printer by installing the following options:

- Printer memory
- Hard disk
- Print server (Internal Network Adapter or INA)
- Tri-port adapter
- Parallel port adapter

## Removing the rear cover and EMI shield

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**Note:** If you have not already done so, you may want to place the printer in a convenient location to remove the rear cover, EMI shield and install internal options.

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**Caution!** Anytime you move or lift the printer make sure you have someone help you.

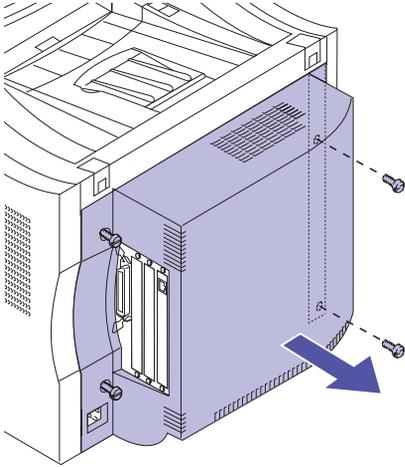
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**Caution!** If you have any other devices connected to the printer, turn them off, unplug their power cords, and cables going to the printer.

You must remove the rear cover and the metal Electro-magnetic Interference (EMI) shield to install memory cards, a hard disk, print server, tri-port adapter, or a parallel port adapter.

You need a number 2 Phillips screwdriver to remove the rear cover and EMI shield.

- 1** If you are installing options after initial printer setup, turn the printer off, disconnect the power cord, and printer cables.



**2 Loosen the four screws on the rear cover as shown.**

The screws on the rear cover are captive and will remain on the cover.

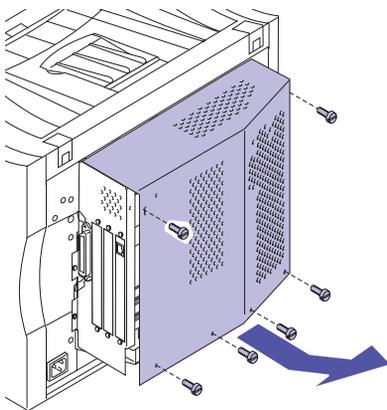
**3 Remove the rear cover and place it to the side.**

**Warning!** The EMI shield must be replaced before operating the printer.

**4 Loosen the six screws on the EMI shield as shown.**

The screws on the EMI shield are captive and will remain on the shield.

**5 Lift and remove the EMI shield and place it to the side.**



Use the table below to locate the steps for your options

**See...**

“Installing memory” on page 9

“Attaching a hard disk” on page 20

“Installing adapters” on page 22

## Installing memory

**Note:** Memory options designed for other Lexmark printers may not work with your printer. Refer to the *User's Guide* for more information.

Your printer comes with at least 32MB already installed. (Some printer models may have more standard memory.) You can purchase many different memory options from Lexmark for the three memory slots in your printer. The maximum amount of usable memory is 384MB. Make sure you use SDRAM DIMM memory cards that meet the following criteria:

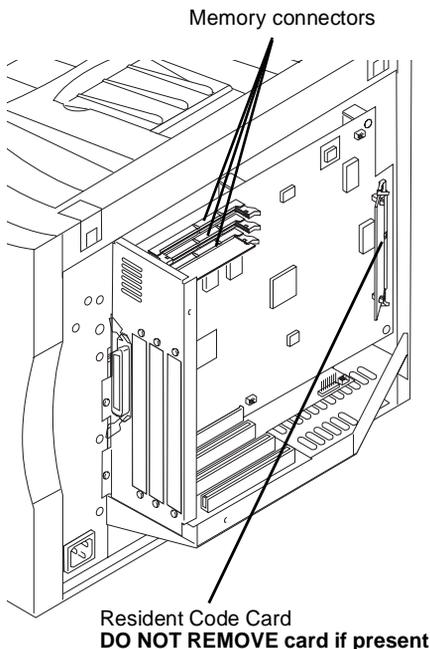
- 100 MHz or greater
- 100 pin
- 4K refresh rate
- unbuffered, non ECC
- x32
- 3.3V

If you need to remove a memory card first, see “Removing a memory card” on page 13.

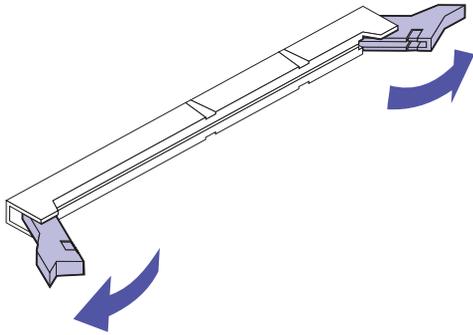
To install optional memory:

- 1** Complete the steps “Removing the rear cover and EMI shield” on page 7 if the rear cover is still installed.
- 2** Locate the memory connectors on the system board as shown.

Each connector can support either a printer memory card or a flash memory card.



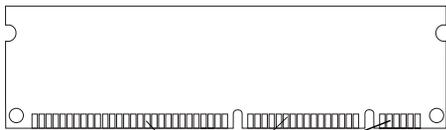
**Note:** Your printer may not have a Resident Code Card.



- 3 Open the latches on both ends of the connector socket you are going to use.

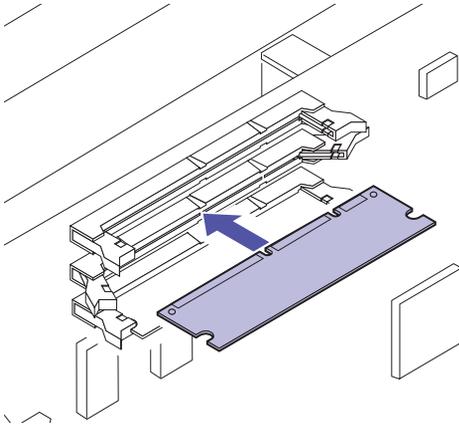
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**Warning!** The memory card is easily damaged by static electricity. Touch something metal before you touch the memory card.

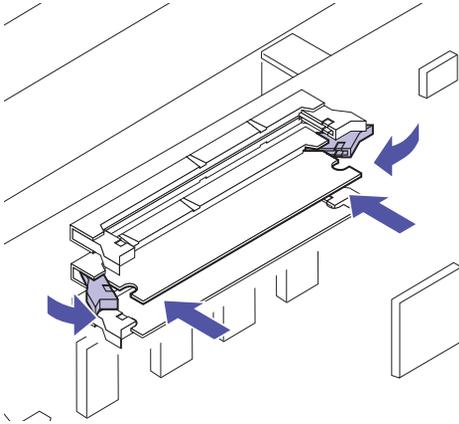


- 4 Unpack the memory card.

Unpack each memory card separately just before installing it. Avoid touching connection points along the edge of card. Save the packaging.

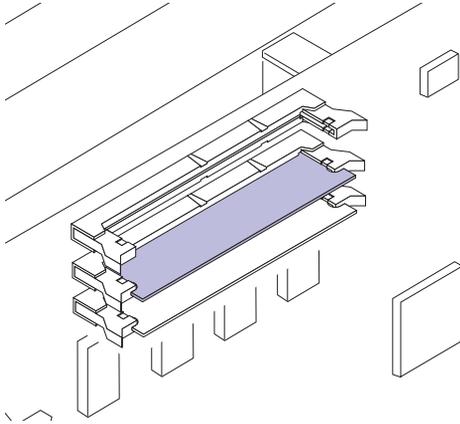


- 5** Hold the memory card with the connection points pointing toward the system board as shown.



- 6** Push the memory card into the connector until the latches on both ends of the connector snap into place.

It may require some force to fully seat the card and have the latches snap into place.



- 7** Make sure the latches fit over the notches on each end of the connector card.
- 8** Repeat steps 3 through 7 to install other memory cards.

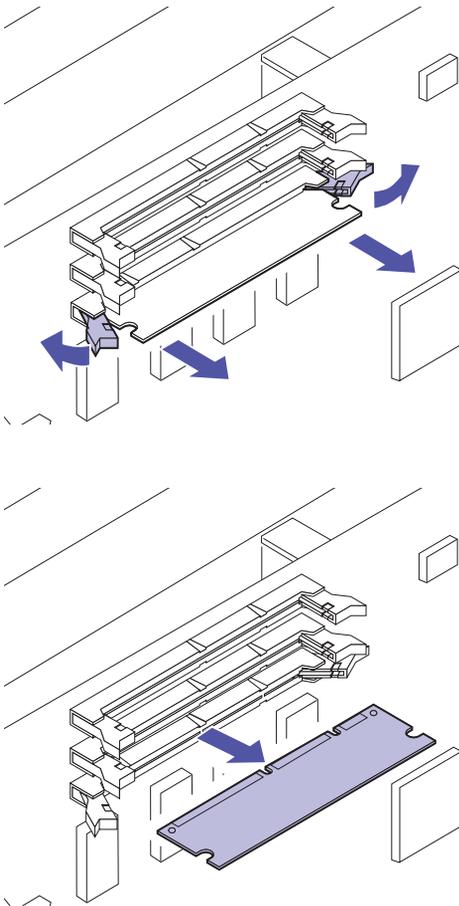
Use the table below to locate your next step

<b>Do you need to...</b>
"Install a Flash Memory Card" see page 14
"Attach a hard disk" see page 20
"Install an adapter" see page 22
"Install the EMI shield and rear cover" see page 28

## Removing a memory card

Complete the following steps if you need to remove a memory card. Otherwise, go to “Flash Memory Option” on page 14, “Attaching a hard disk” on page 20, “Installing adapters” on page 22, or “Installing the EMI shield and rear cover” on page 28.

**Warning!** Memory cards are easily damaged by static electricity. Touch something metal before you touch a memory card.



- 1 Push the latches at each end of the connector away from the card as shown.**
- 2 Gently pull the card out of the connector.**
- 3 Place the card into the original packaging.**  
If you do not have the original packaging, wrap the card in paper and store it in a box.
- 4 Repeat steps 1 through 3 to remove additional memory cards.**

## Flash Memory Option

Flash memory is useful for storing information such as downloaded fonts and macros. Your printer driver or MarkVision can be used to download fonts, symbol sets, and macros to flash memory.

Information stored in flash memory is retained when the printer is turned off. You can buy flash memory cards with 2MB, 4MB, 8MB, or 16MB of flash memory.

Refer to the *Technical Reference* for more details about using your Flash Memory Option.

### *Installing a Flash Memory Card*

If you need to remove a flash memory card first, see “Remove Flash Memory Card” on page 18.

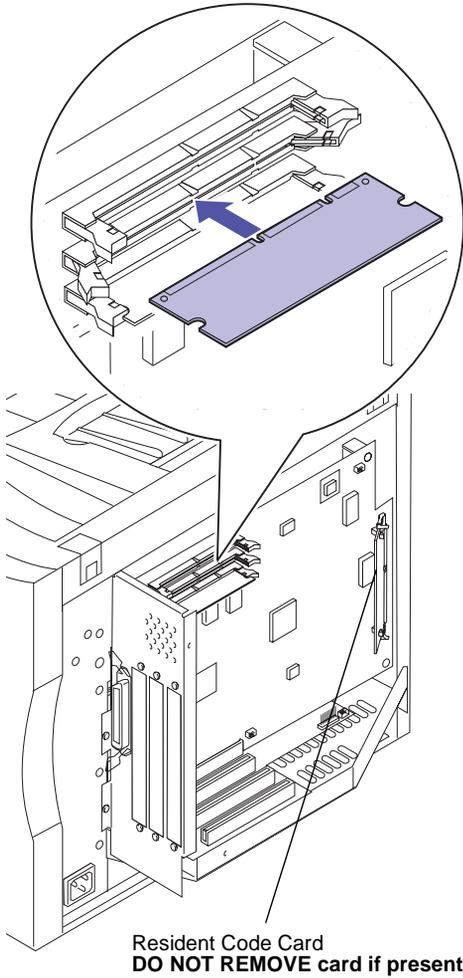
- 1** Follow the steps for “Removing the rear cover and EMI shield” on page 7 if the rear cover is still installed.

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**Note:** Each connector can support either a printer memory card or a flash memory card. Installing a flash memory card reduces your maximum RAM memory capability.

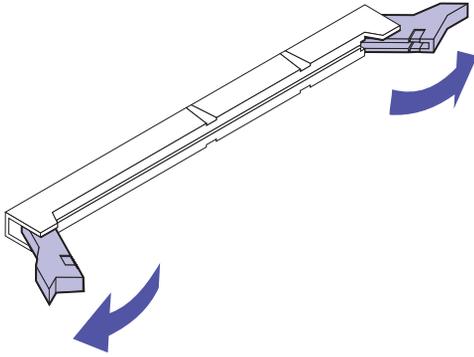
**2** Locate the memory connectors on the system board as shown.

Each connector can support either a printer memory card or a flash memory card.

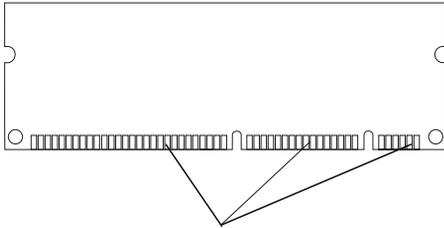


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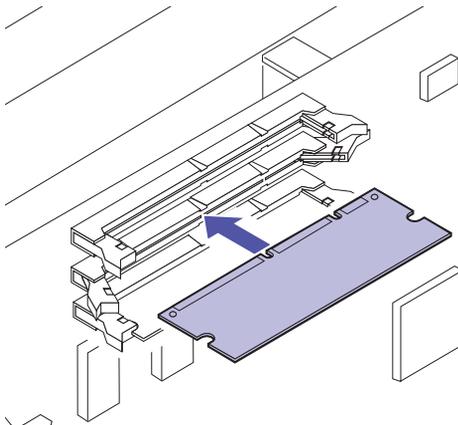
**Note:** Your printer may not have a Resident Code Card.



**Warning!** The flash memory card is easily damaged by static electricity. Touch something metal before you touch the memory card.



Connection points



- 3 Open the latches on both ends of the connector socket you are going to use.**

Each connector can support either a printer memory card or flash memory card.

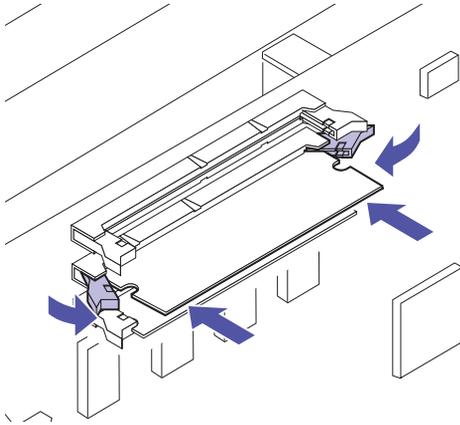
You can not operate the printer with more than one flash memory card installed.

- 4 Unpack the flash memory card.**

You can install a 2MB, 4MB, 8MB or 16MB flash memory card.

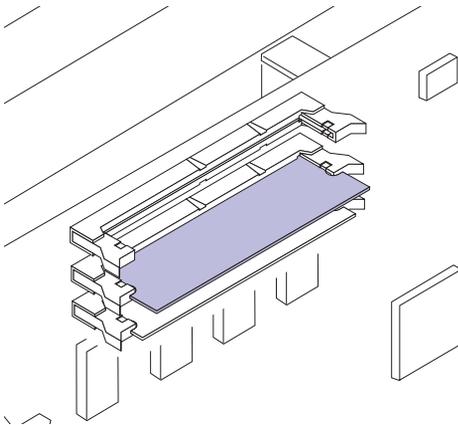
Unpack the flash memory card just before installing it. Avoid touching connection points along the edge of card. Save the packaging.

- 5 Hold the flash memory card with the connection points pointing toward the system board as shown.**



- 6** Push the flash memory card into the connector until the latches on both ends of the connector snap into place.

It may require some force to fully seat the card and have the latches snap into place.



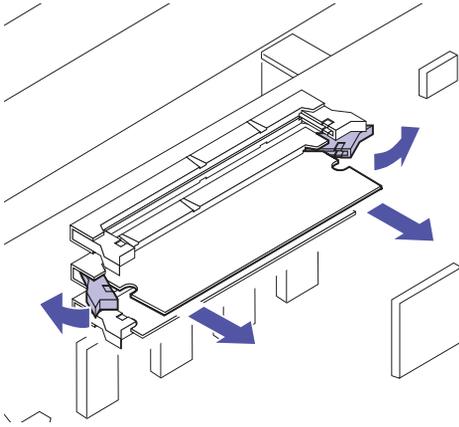
- 7** Make sure the latches fit over the notches on each end of the connector card.

Use the table below to locate your next step

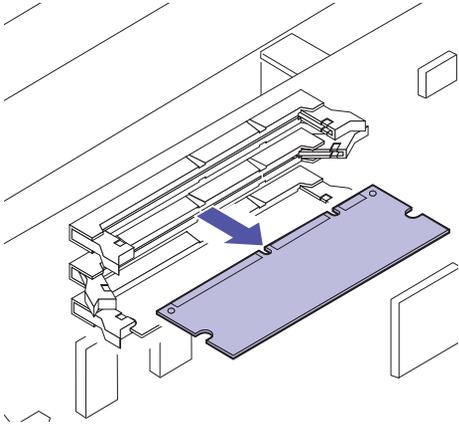
Do you need to...
"Attach a hard disk" see page 20
"Install an adapter" see page 22
"Install the EMI shield and rear cover" see page 28

## Remove Flash Memory Card

**Warning!** The flash memory card is easily damaged by static electricity. Touch something metal before you touch the memory card.



- 1 Follow the steps for “Removing the rear cover and EMI shield” on page 7 if the rear cover is still installed.
- 2 Push the latches at each end of the connector away from the card as shown.



**3 Gently pull the card out of the connector.**

**4 Place the card into the original packaging.**

If you do not have the original packaging, wrap the card in paper and store it in a box.

**Use the table below  
to locate your next step**

<b>Do you need to...</b>
"Attach a hard disk" see page 20
"Install an adapter" see page 22
"Install the EMI shield and rear cover" see page 28

## Hard disk option card

**Warning!** The hard disk and adapter must be installed in option 3 on the system board.

Two hard disk options are available from Lexmark:

- A Hard Disk already installed on a hard disk adapter.
- A Hard Disk Adapter for installing a user purchased hard disk.

If you have a hard disk already installed on a hard disk adapter, continue with “Installing adapters” on page 22. Otherwise, continue with “Attaching a hard disk”.

## Attaching a hard disk

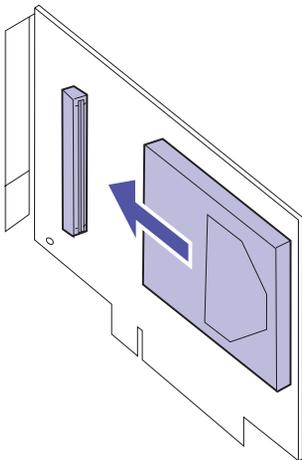
Use your adapter card with a third-party hard disk that meet the following criteria:

- 2.5-inch platter
- ATA-2 (IDE) interface
- Maximum thickness of 13 mm (.51 in.)
- 2.1GB minimum hard disk capacity
- 4GB maximum hard disk capacity

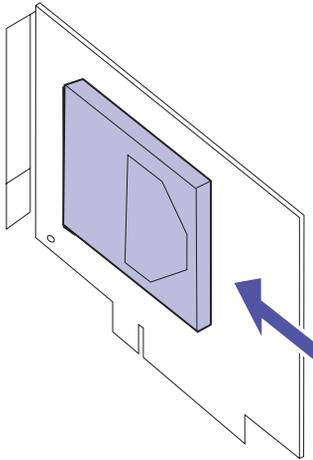
You need a number 2 Phillips screwdriver to attach the hard disk to the adapter.

To install and attach the hard disk:

- 1** Align the connector pins on the end of hard disk with the connector on back of the adapter card.



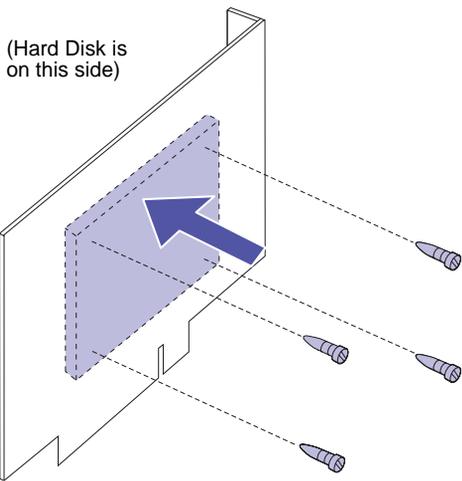
**2 Push the hard disk securely into the connector.**



**3 Turn the adapter card over and insert four screws through the adapter card.**

The illustration shows the outline of the hard disk on the *reverse side* of the adapter card.

**4 Gently tighten the screws to secure the hard disk to the adapter card.**



**Use the table below  
to locate your next step**

<b>Do you need to...</b>
"Install an adapter" see page 22
"Install the EMI shield and rear cover" see page 28

## Installing adapters

You can install the following adapters in your printer:

- Print server
- Tri-port adapter
- Parallel port adapter
- Hard disk
- USB adapter
- Fax modem adapter

A print server (sometimes called an Internal Network Adapter or INA), such as the MarkNet™ N2001e, lets you connect the printer to a Local Area Network (LAN). MarkNet N2000 print servers support the following:

- Ethernet 10BaseT and 10Base2
- Ethernet 10/100BaseTX
- Token-Ring

The tri-port adapter provides connectors for the following:

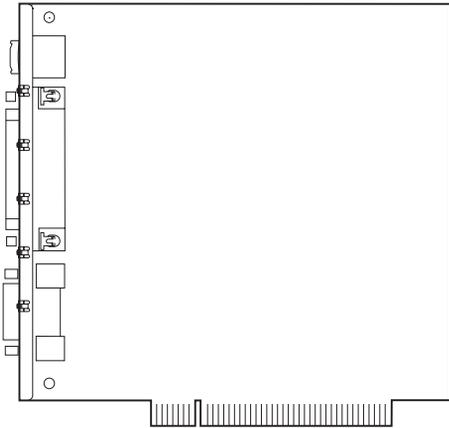
- Serial interface (RS-232C or RS-422), which can also serve as a receive-only fax port
- LocalTalk network
- An infrared adapter

The parallel port adapter provides an additional parallel port. Its IEEE 1284C connector requires a 1284 A-C cable. You can purchase a 3 m (9.8 ft) cable, Lexmark part number 43H5171, meeting these specifications.

Refer to the documentation that came with your adapter for more information.

There are three available option slots on your interconnect board. All option slots support network, tri-port, parallel port, USB, and Fax modem adapters.

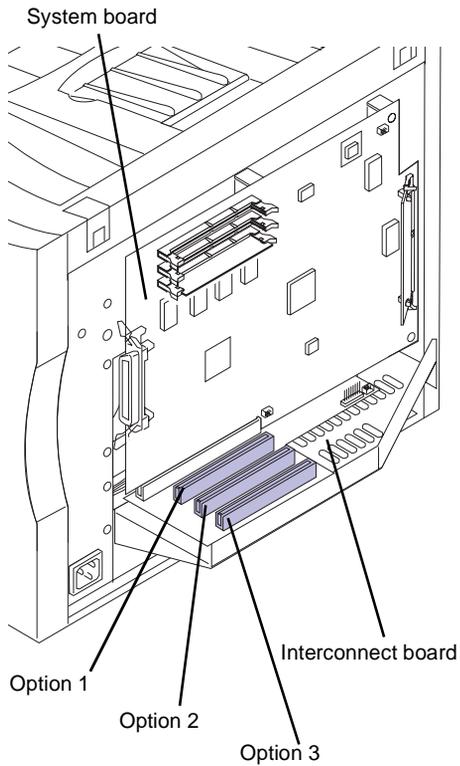
Hard disk adapters must be installed in option 3.



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**Note:** Depending on your printer model, you may already have a MarkNet N2001e print server installed in one of the option slots.

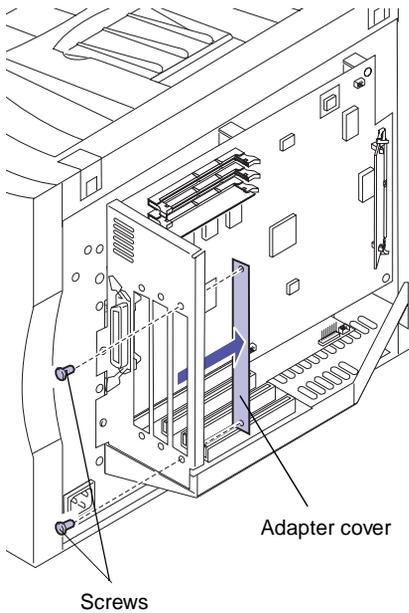
**Warning!** The hard disk adapter must be installed in option 3 on the system board.



You can install any adapter combination in the three option slots. If you install two tri-port adapters, your printer can support two serial ports (but only one receive-only fax port), one LocalTalk port, and one infrared port.

If you are installing one adapter, install it in the open slot farthest from the printer.

**Warning!** Adapters are easily damaged by static electricity. Touch something metal before you touch an adapter.



You need a number 2 Phillips screwdriver to install the adapter.

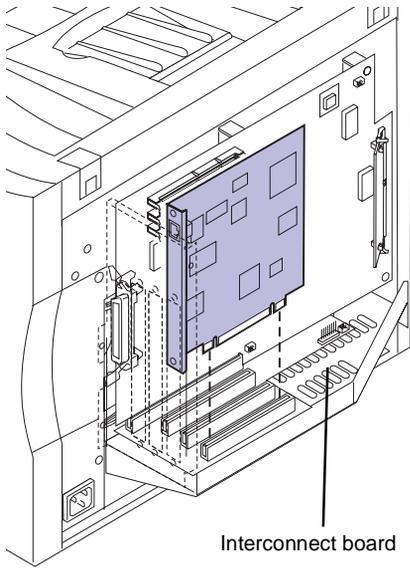
If you need to remove an adapter first, see “Removing an adapter” on page 26.

- 1** Follow the steps for “Removing the rear cover and EMI shield” on page 7 if the rear cover is still installed.
- 2** Before installing an adapter, remove the adapter cover covering the opening for the option slot you are going to use.
  - a** Remove the screw on each end of the adapter cover.

Save the screws. You will need them to secure the adapter to the connector bracket.
  - b** Remove the plate.

Save the adapter cover so you can reinstall it if you remove the adapter.
- 3** Unpack the adapter.

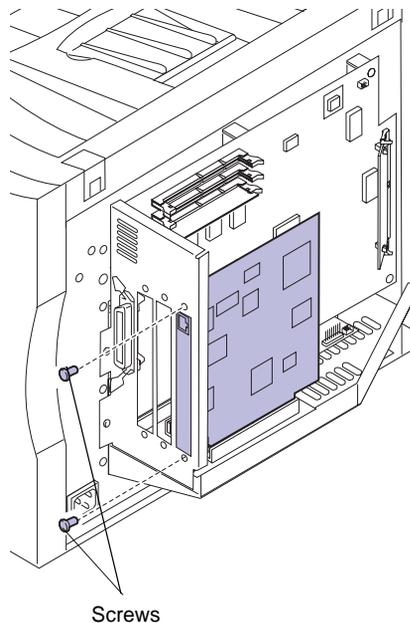
Save the packing materials.



**4** Align the adapter connector with the connector on the interconnect board.

**5** Push the adapter firmly into the connector until it is seated on the interconnect board.

The two connectors should fit snugly together.



**6** Insert the two screws saved from the adapter cover (or the extra screws shipped with the adapter) through the holes in the connector bracket and into the adapter.

**7** Gently tighten the screws to secure the adapter.

**8** Repeat steps 2 through 7 to install another adapter.

**9** Continue with "Installing the EMI shield and rear cover" on page 28.

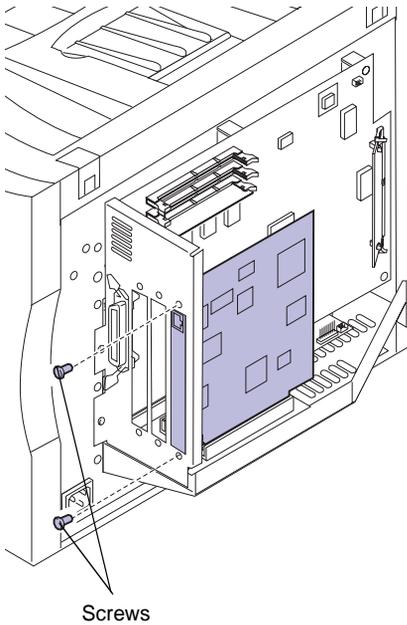
## Removing an adapter

You need a number 2 Phillips screwdriver to remove an adapter.

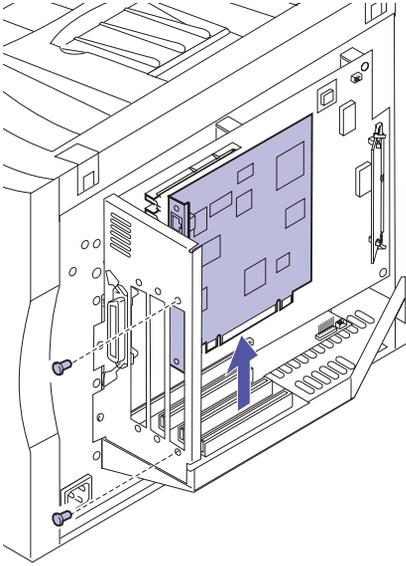
- 1 Complete the steps for “Removing the rear cover and EMI shield” on page 7 if the rear cover is still installed.

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**Warning!** Adapters are easily damaged by static electricity. Touch something metal before you touch an adapter.



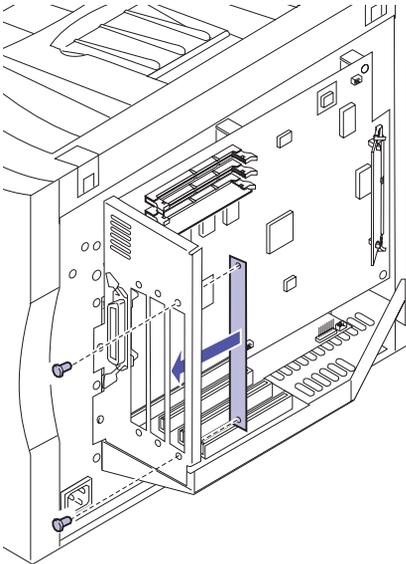
- 2 Remove the two screws securing the adapter to the connector bracket.



**3** Gently pull the adapter completely out of the connector.

**4** Place the adapter in its original packaging.

If you do not have the original packaging, wrap the adapter in paper and store it in a box.



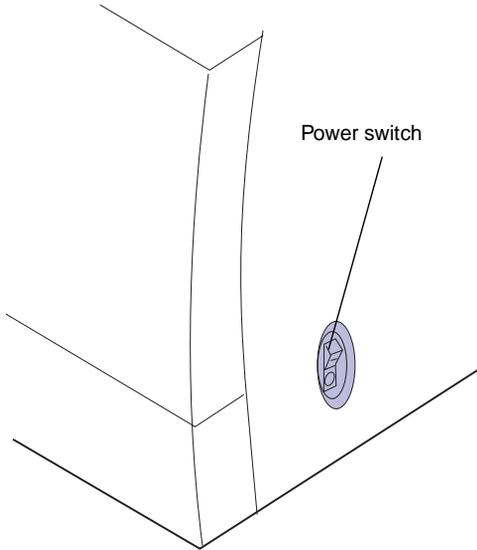
**5** If you are not installing another adapter in the connector, cover the opening with an adapter cover.

Covering the opening ensures proper airflow around the system board. If you do not have an adapter cover, contact your service representative and request a blank INA cover.

## Installing the EMI shield and rear cover

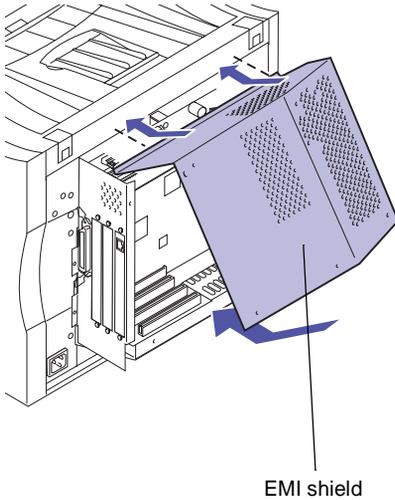
After you have installed all options on the interconnect board, complete the following steps to install the rear cover:

- 1 Make sure the printer is turned off (O).

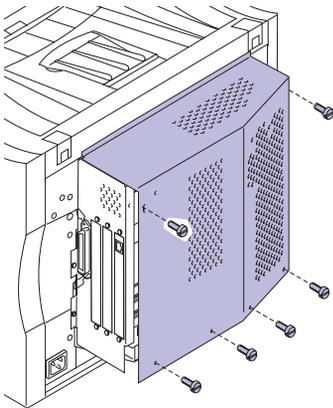


**Warning!** The EMI shield must be installed before operating the printer.

- 2 Insert the top of the EMI shield into the rear of the printer.



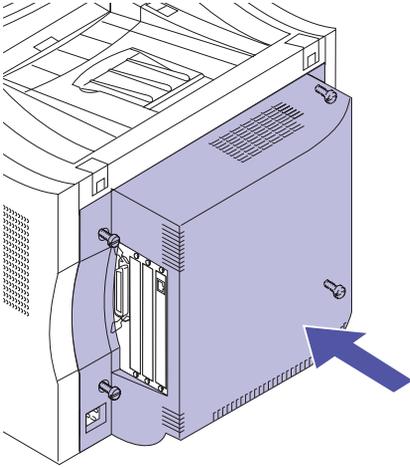
- 3 Align the six screws in the EMI shield with the holes on the printer frame.
- 4 Tighten the six screws to secure the EMI shield.



You need a number 2 Phillips screwdriver to install the cover.

- 5** Place the rear cover on the printer and align the screws with the screw holes.
- 6** Tighten the four screws to secure the rear cover.

If you installed internal options after initial printer setup, connect the printer cables, power cord, and turn the printer on.



# Step 3: Set up the optional drawer unit

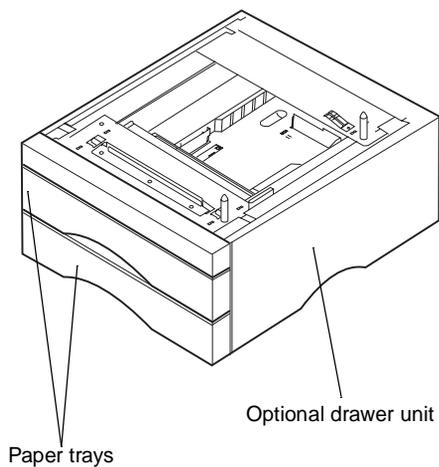
**Note:** The optional drawer must be installed prior to installing the duplex unit.

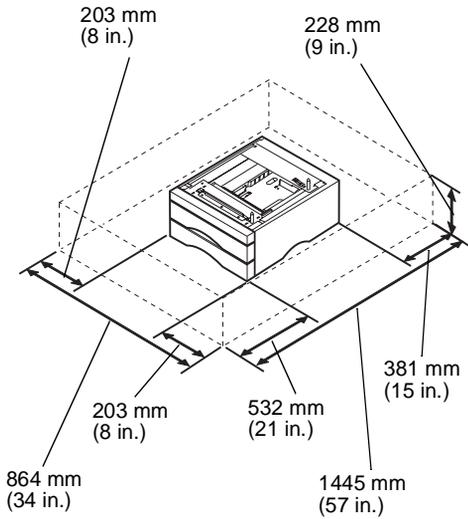
**Caution!** If you are installing the optional drawer unit after initial printer setup, turn the printer off, and disconnect the power cord and printer cables.

Your printer supports an optional drawer unit with two 250-sheet trays. If you are installing the optional drawer unit, complete the following steps.

- 1 Remove any orange tape and packing material from the drawer unit.**

Check both trays for packing material.





## 2 Place the drawer unit in the location you have chosen for your printer.

The following guidelines will help to ensure proper printer operation and prevent print quality problems. They will also extend the life of your printer and supplies.

Place the drawer unit on a flat, stable surface in a well-ventilated area.

Leave enough space around the drawer unit for ventilation and easy access.

Leave space in front of the drawer unit to allow for easy paper loading. If you plan to install a duplex unit, leave additional room behind the drawer unit as well. You will need (507 mm, 20 in.) behind the drawer unit if you plan to install a duplex option.

Do not place the drawer unit:

- In direct sunlight
- Near heat sources or air conditioners
- In dusty or dirty environments

Use the table below  
to locate your next step

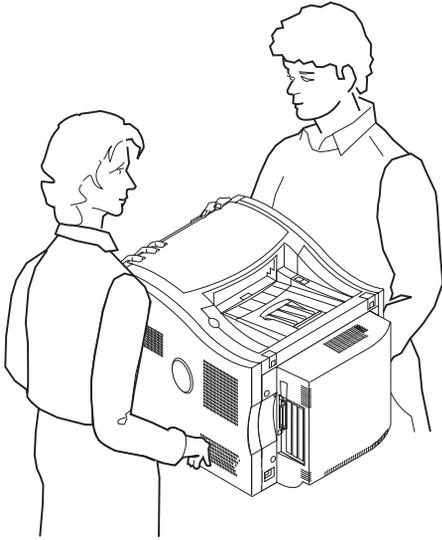
Do you need to...
"Install the optional duplex unit", see page 37
Continue with printer setup, see page 33

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**Caution!** This printer weighs 35 kg (77 lb) and requires at least two people to lift it.

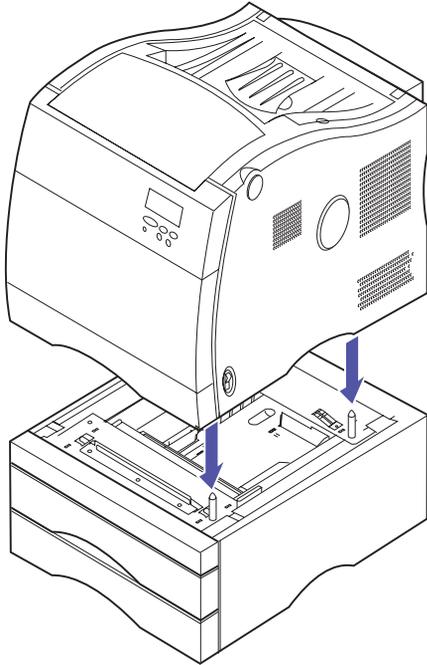
**3 Have someone help you lift the printer.**

Use the handholds under the printer and support the front of printer when lifting.

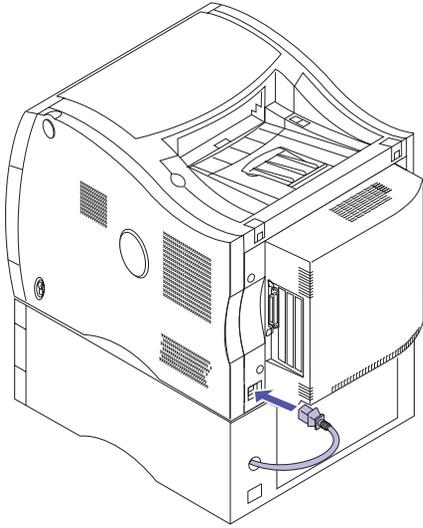


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**Note:** If you align the sides and corners of the printer with the optional drawer unit and then lower the printer, the pins and connector will align easier.



- 4 Align the pins and connector on top of the optional drawer unit with the holes and connector on the bottom of printer.
- 5 Place the printer on top of the drawer unit.



**6 Insert the optional drawer unit power cord into the printer power socket as shown.**

If you installed the optional drawer unit after initial printer setup, connect the printer cables, power cord, and turn the printer on.

**Proceed to procedure 3  
on page 48**



# Step 4: Install the optional duplex unit

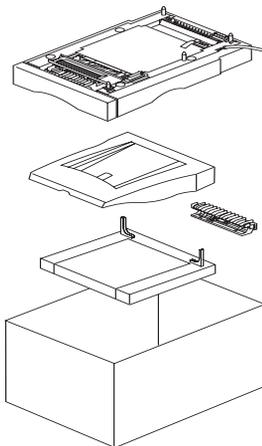
**Note:** The assembly of the duplex unit is easier if you have access to the rear and sides of the printer.

For two-sided color or monochrome printing, your printer supports an optional duplex unit. If you are installing the duplex unit, complete the following steps.

## Installing the duplex unit base

**Caution!** If you are installing the optional duplex unit after initial printer setup, turn the printer off, and disconnect the power cord and printer cables.

- 1 Remove the duplex unit from its packing material.
- 2 Remove the orange tape and any additional packing material from the duplex unit components.



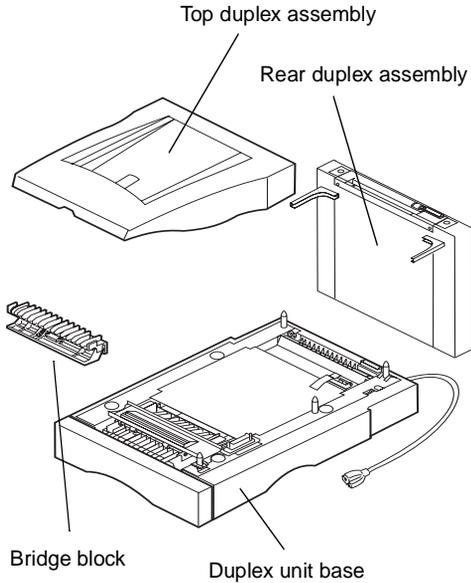
### 3 Make sure you have all the items to install the duplex unit.

If any items are missing or damaged, refer to the registration card for the Lexmark phone number for your country.

Save the carton and packing materials in case you need to repack the duplex unit.

Make sure you have the items listed below:

- Duplex unit base
- Rear duplex assembly
- Top duplex assembly
- Bridge block



#### 4 Place the duplex unit base in a suitable location.

- a To mount the duplex unit base on the optional drawer unit, align the pins and connector on top of the optional drawer unit with the holes and connector on bottom of the duplex unit base.
- b If you do not have an optional drawer unit, place the duplex unit base on a flat, stable surface in a well-ventilated area.

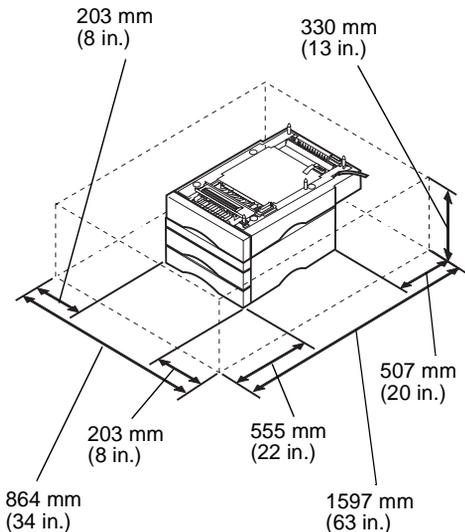
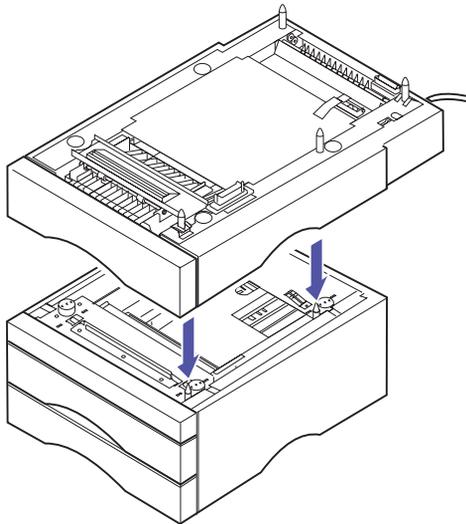
Allow space in front of duplex unit (555 mm, 22 in.) for easy duplex tray removal.

Allow space behind the duplex unit (507 mm, 20 in.) for access to the rear duplex assembly.

The following guidelines will help to ensure proper printer operation and prevent print quality problems. They will also extend the life of your printer and supplies.

Do not place the duplex unit:

- In direct sunlight
- Near heat sources or air conditioners
- In dusty or dirty environments

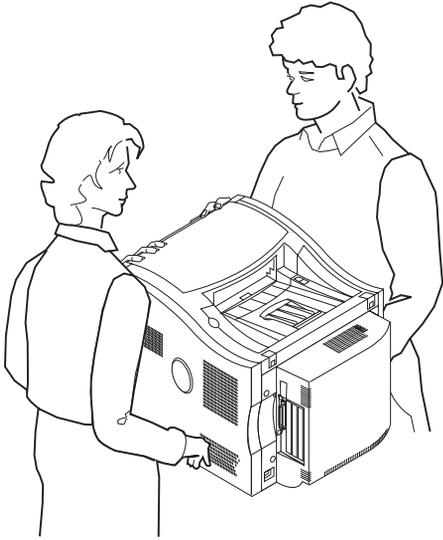


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**Caution!** This printer weighs 35 kg (77 lb) and requires at least two people to lift it.

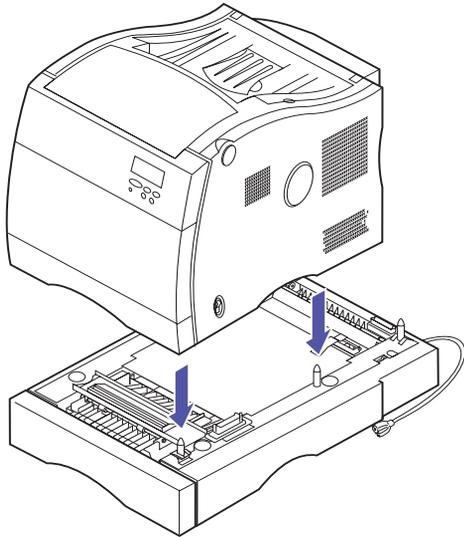
**5 Have someone help you lift the printer.**

Use the handholds under the printer and support the front of printer when lifting.



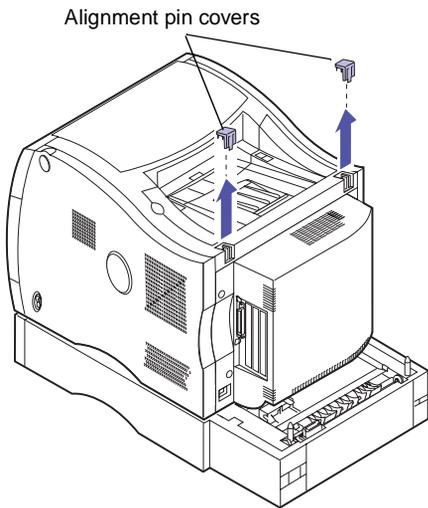
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**Note:** If you align the sides and front corners of the printer with the duplex unit base and then lower the printer, the pins and connector align easier.



- 6** Align the pins and connector on top of the duplex unit base with the holes and connector on bottom of the printer.
- 7** Lower the printer onto the duplex unit base.

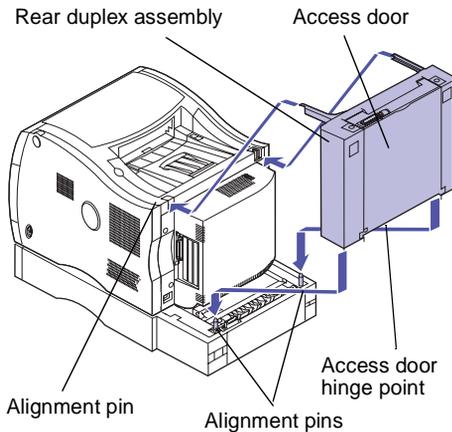
## Installing the rear assembly



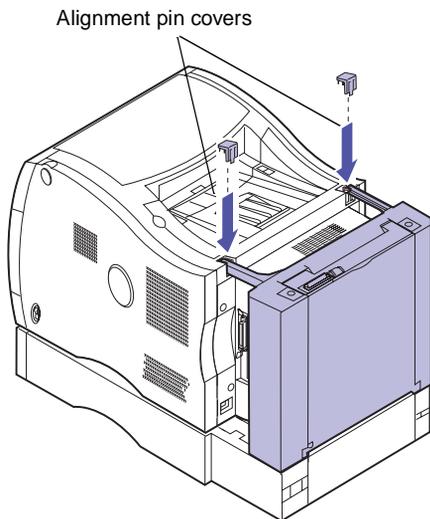
- 1 Lift the alignment pin covers from the output bin on the printer.**

Save the alignment pin covers so you can reinstall them during step 4 on page 43.

**Note:** The hinge point of the access door is at the bottom of the rear duplex assembly. The door opens away from the rear of the printer.



- 2 Align the holes in the support brackets and the holes on the bottom of the rear duplex assembly with the pins on the rear of the output bin and the pins on the duplex unit base.
- 3 Lower the rear duplex assembly onto the pins and connector of the duplex unit base until the rear duplex assembly snaps into place.

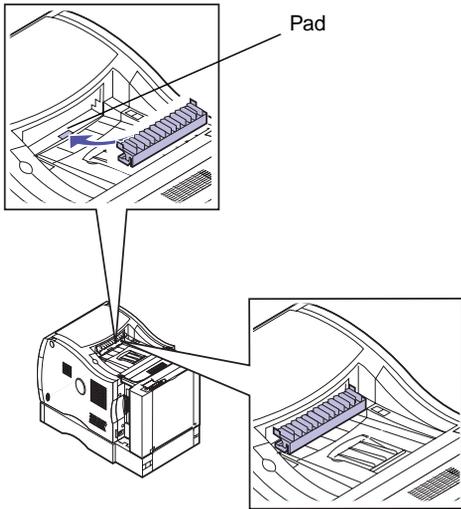


- 4 Place the previously removed alignment pin covers over the support brackets as shown.

The covers snap into place when aligned and pressed down.

If the alignment pin covers are difficult to install, make sure the rear duplex assembly is fully seated and the brackets are properly aligned on the pins. Repeat steps 2 and 3 if necessary.

## Installing the top assembly

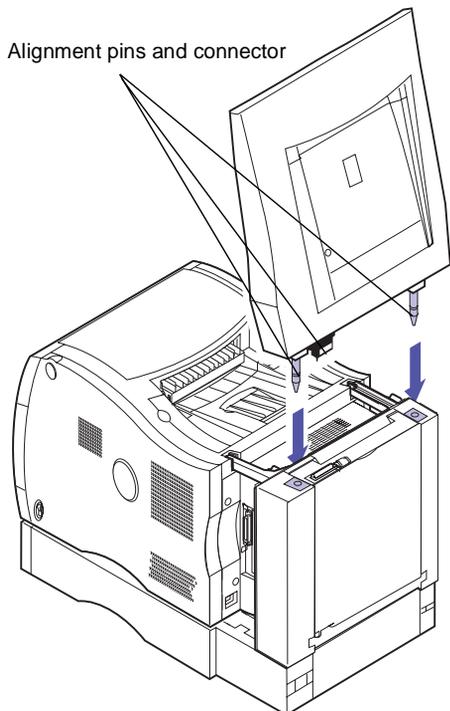


- 1 Place the bridge block onto the forward pad in the output bin as shown.**

The hinged side of the bridge block must be toward the rear of the printer for correct installation.

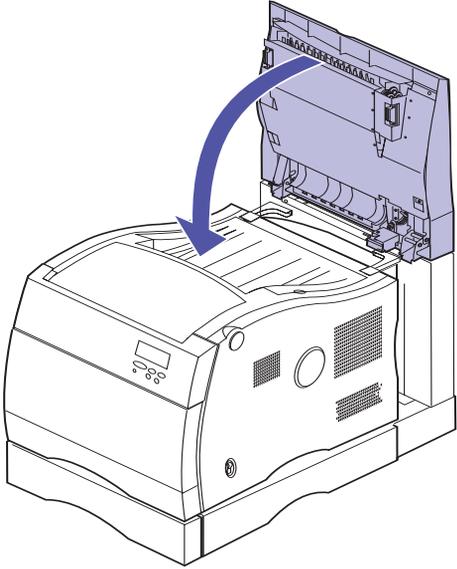
The bridge block may be squeezed together to make placement on the pad easier.

The bridge block has a small magnetic pad on the bottom that must rest on the metal pad in the front of the output bin.

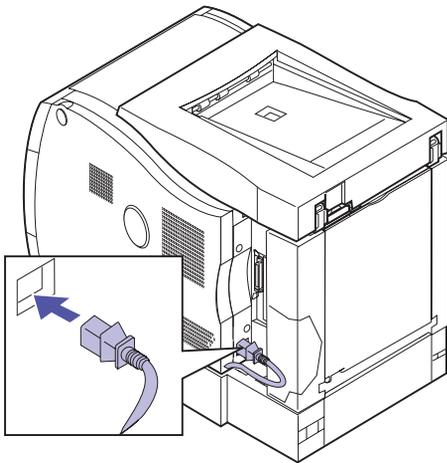


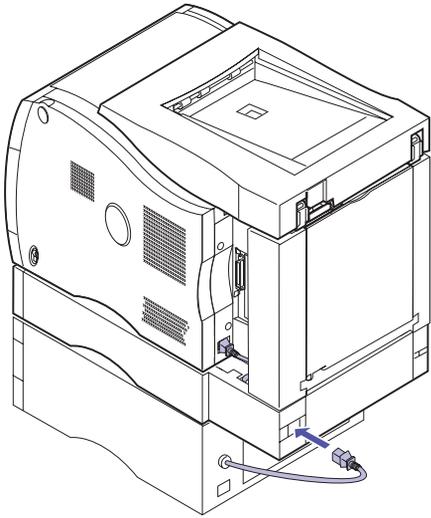
- 2 Align the pins and connector of the top duplex assembly with the holes and connector on the rear duplex assembly.**
- 3 Lower the pins of the top duplex assembly into the holes of the rear duplex assembly until the top duplex assembly snaps into place.**

- 4** Lower the top duplex assembly.



- 5** Insert the duplex unit power cord into the socket on rear of printer as shown.





- 6** Insert the optional drawer unit power cord into socket on the rear of the duplex unit. If you do not have an optional drawer unit, insert the power cord into the duplex unit.

If you installed the duplex unit after initial printer setup, connect the printer cables and turn the printer on.

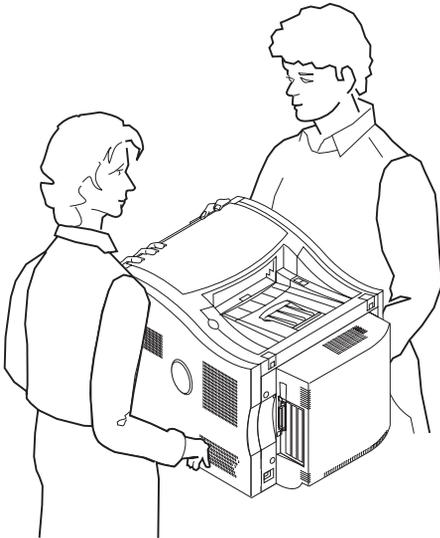
**Proceed to procedure 3  
on page 48**

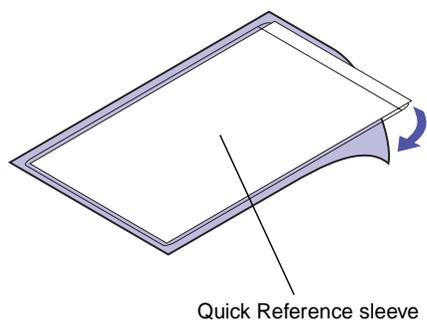
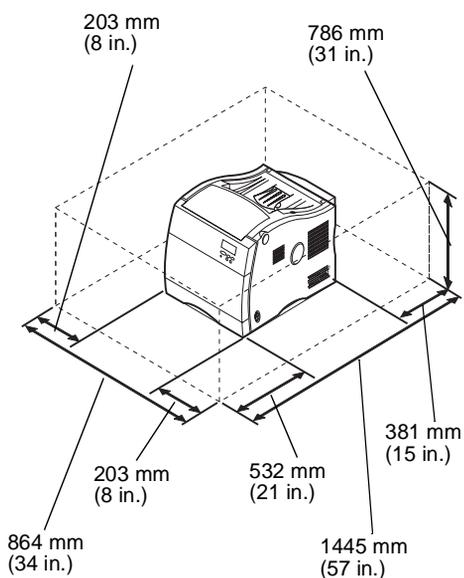
# Step 5: Position the printer

**Caution!** This printer weighs 35 kg (77 lb) and requires at least two people to lift it.

## 1 Have someone help you lift the printer.

Use the handholds under the printer and support the front of printer when lifting.





**Note:** Do not cover the vent holes on the printer.

## 2 Place printer on a flat, stable surface in a well-ventilated area.

Allow space in front of printer for easy tray removal and paper loading.

The following guidelines will help to ensure proper printer operation and prevent print quality problems. They will also extend the life of your printer and supplies.

Do not place the printer:

- In direct sunlight
- Near heat sources or air conditioners
- In dusty or dirty environments

## 3 Find a convenient location for the Quick Reference card:

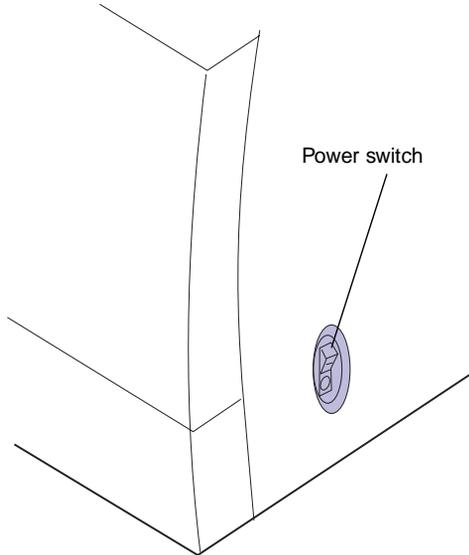
- a Locate a visible spot in the vicinity of the printer or on the printer for the Quick Reference sleeve.
- b Remove the protective paper from the back of the plastic sleeve.
- c Firmly attach the adhesive-backed sleeve to the designated area.

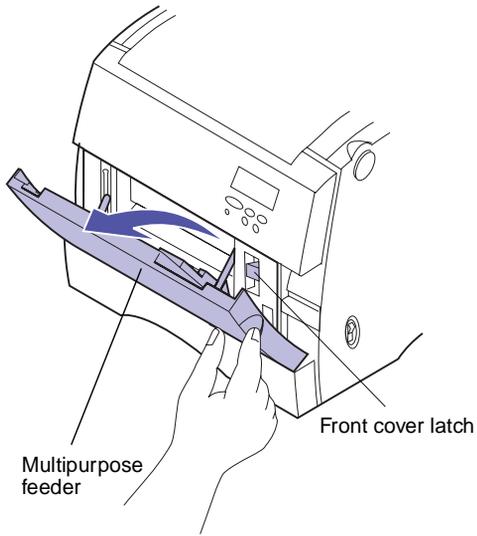
# Step 6: Install the transfer belt

Your printer ships with a transfer belt that must be installed for your printer to operate. The transfer belt carries an image from the print cartridge to the paper.

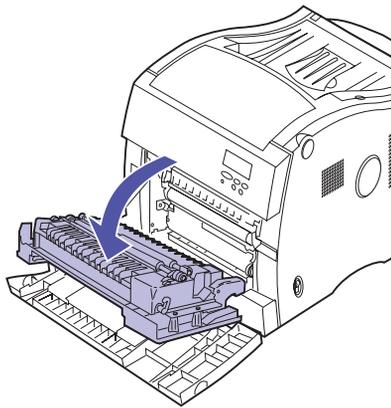
Complete the following steps to install the transfer belt.

- 1 Make sure the printer is turned off (O).**
- 2 Make sure the power cord from the outlet to the printer or optional device is unplugged.**



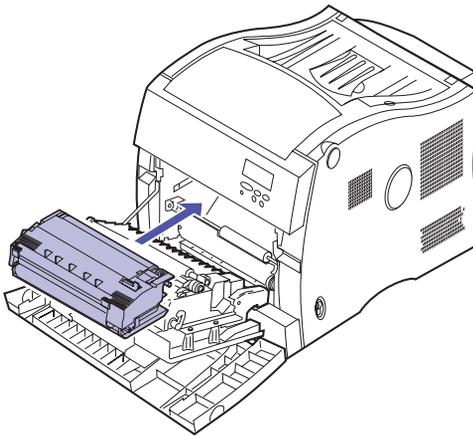
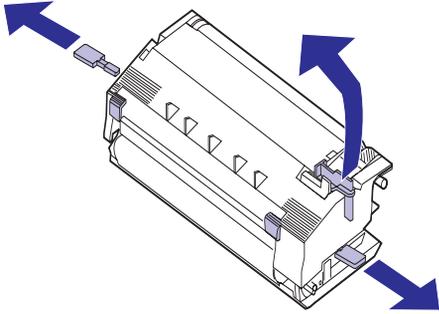


- 3** Open the multipurpose feeder.
- 4** Lift the front cover latch.



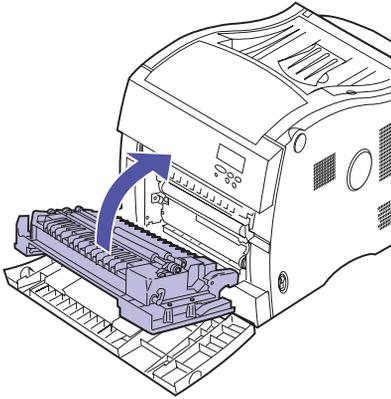
- 5** Open the front cover.
- 6** Remove any orange tape or packing material from inside the front of the printer.

**Warning!** Do not tilt or rotate the transfer belt on its end. Do not touch the glossy transfer film. Touching the film may cause print quality problems.

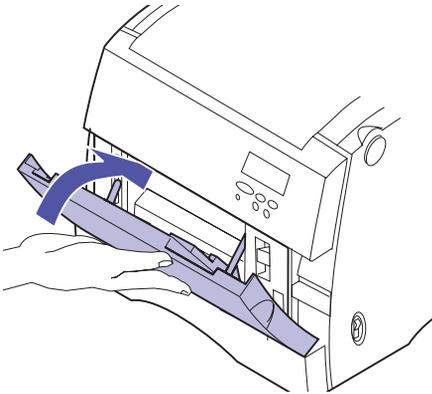


- 7** Remove the transfer belt from its package.
- 8** Remove the orange tabs and any packing material or tape from the transfer belt.
  - a** Lift and pull the orange tab from the top of the transfer belt.
  - b** Pull the two bottom orange tabs away from the transfer belt.
- 9** Align the bottom of the transfer belt with the rails inside the printer.
- 10** Push the transfer belt into the printer until it is firmly seated.

**11** Close the front cover.



**12** Close the multipurpose feeder.

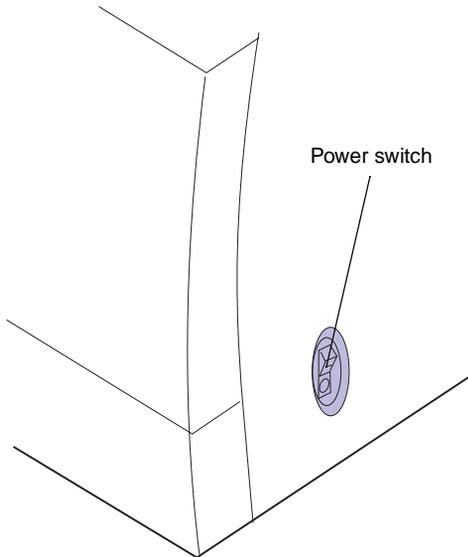


# Step 7: Install the coating roll

Your printer ships with a coating roll that must be installed for your printer to operate. The coating roll lubricates the fuser with oil and must be placed inside the fuser.

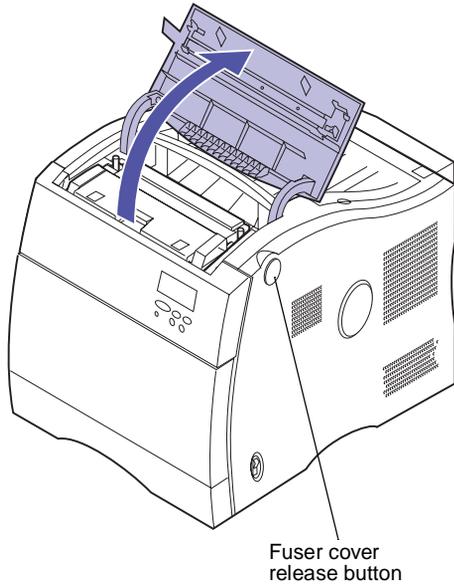
Complete the following steps to install the coating roll.

- 1 Make sure the printer is turned off (O).**
- 2 Make sure the power cord from the outlet to the printer or optional device is unplugged.**



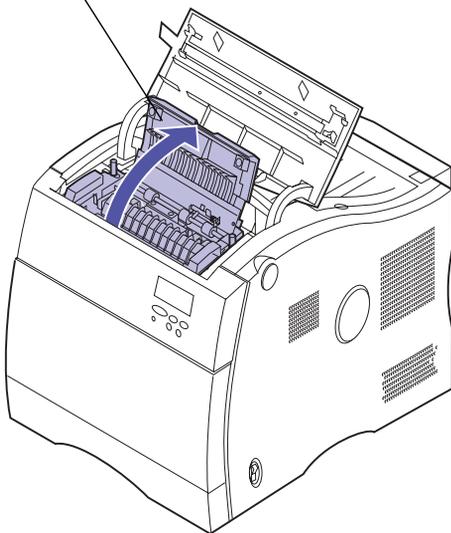
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**Note:** If the duplex unit is installed, lift the duplex top cover first.

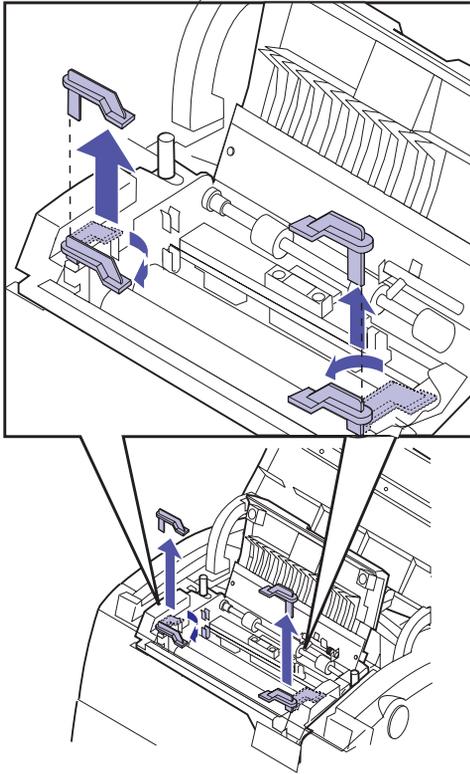


**3** Press the fuser cover release button and lift the fuser cover.

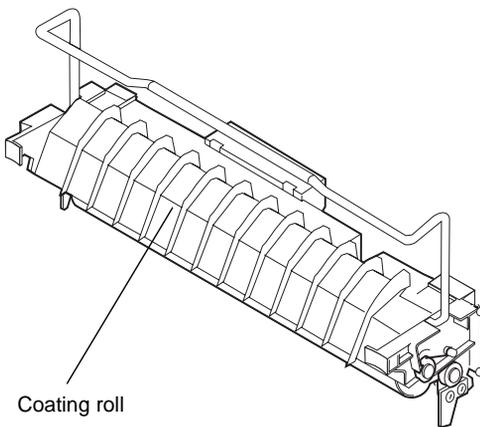
Fuser door



**4** Lift the fuser door.



- 5** Remove the orange tabs and any packing material from the fuser compartment.
  - a** Rotate the tabs toward each other as shown.
  - b** Pull the tabs up to remove them from the fuser.

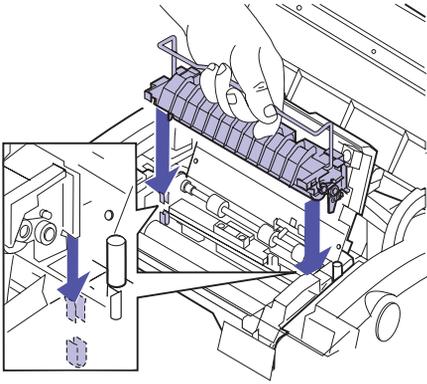


- 6** Remove the coating roll from its package.
- 7** Remove the orange tape and packing material from the coating roll.
 

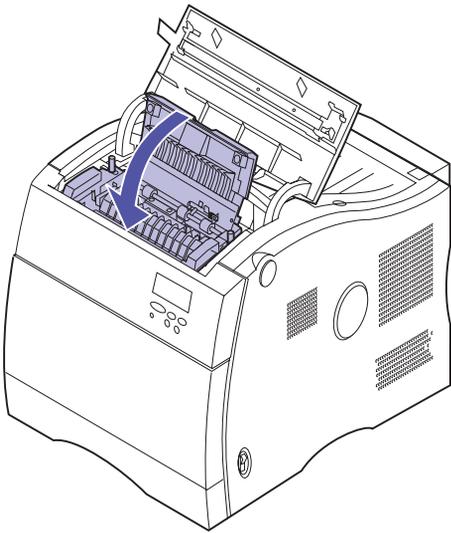
Make sure all of the plastic wrapping is removed from the coating roll.

**8** Align the bar on the side of the coating roll with the slots in the fuser.

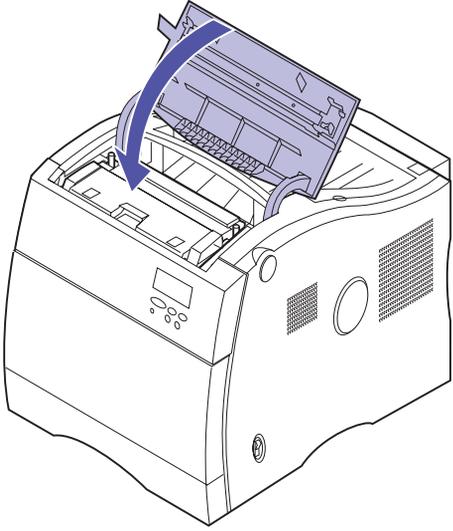
**9** Lower the coating roll into the fuser.



**10** Close the fuser door.



**11** Close the fuser cover.



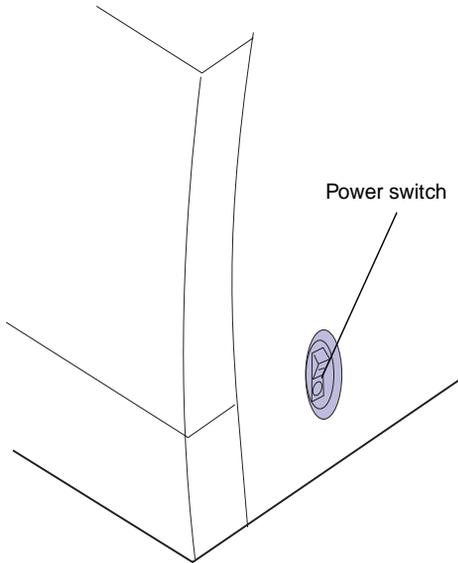


# Step 8: Install the print cartridges

Your printer ships with four color-coded print cartridges. These cartridges must be placed on the carousel inside the printer. Each cartridge has its own color-coded position on the carousel.

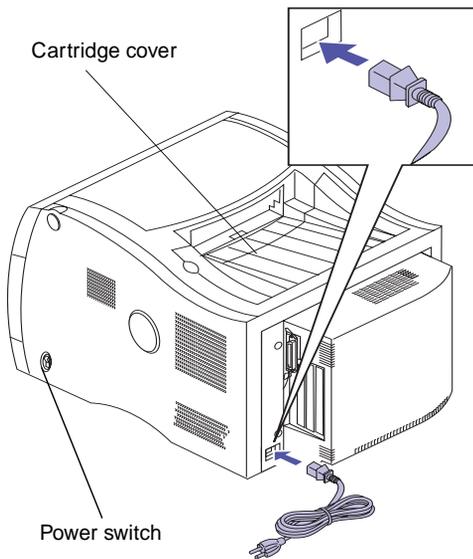
Complete the following steps to install the four print cartridges. A message on the operator panel indicates which print cartridge to install.

- 1 Make sure the printer is turned off (O).**



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**Caution!** If you have an optional duplex unit or optional drawer unit, ensure the power cord from the appropriate optional device is connected to the rear of the printer before plugging the power cord into a properly grounded electrical outlet.



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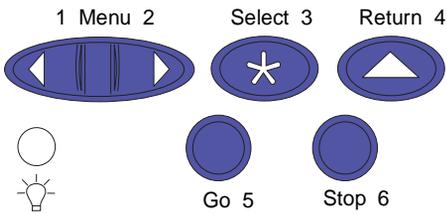
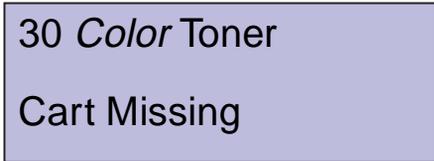
**Warning!** Do not open the cartridge cover when the carousel is rotating.

**2** Plug the end of the power cord onto the connector on the back of printer or the appropriate optional device.

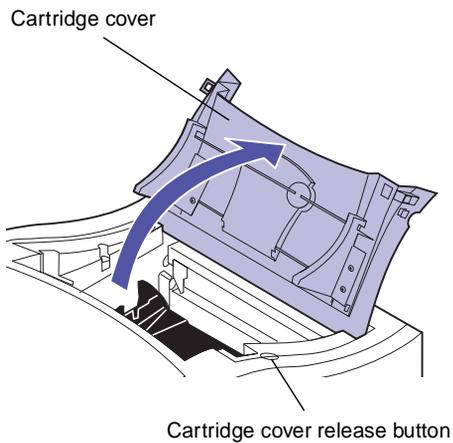
**3** Place the printer power switch in the on (I) position.

After you turn the printer on, it performs a self test. During this period it detects the missing print cartridges.

**Note:** The operator panel displays “Open Top Door”. This instructs you to open the cartridge cover.



**Warning!** Do not open the cartridge cover when the carousel is rotating.

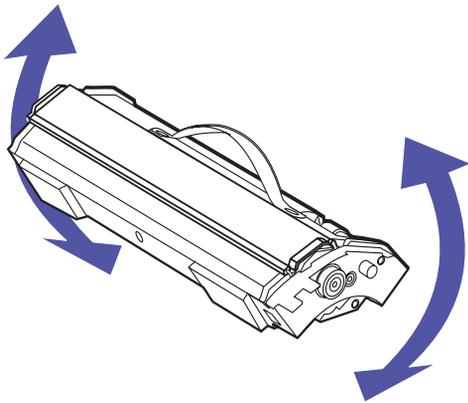
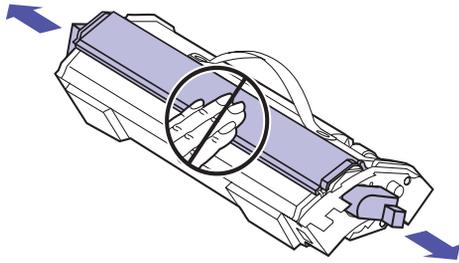
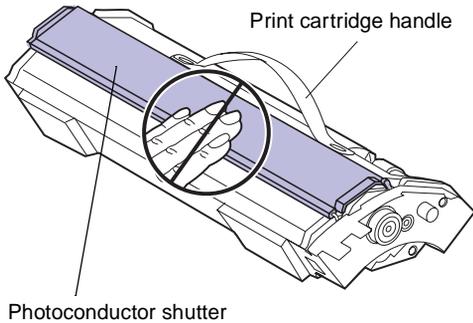


**4** View the operator panel and determine which cartridge must be installed.

**5** Press the cartridge cover release button.

**6** Lift the cartridge cover.

**Warning!** Lift, shake, and insert the print cartridge using the handle only. To prevent damage to the print cartridge, do not handle the shutter covering the photoconductor.



**7 Remove the appropriate print cartridge from the packing material.**

Your print cartridge has a shutter to protect the photoconductor. Do not move the shutter or touch the photoconductor (glossy green surface under the shutter), it may become scratched or damaged.

Do not leave the cartridge cover open longer than necessary. If you expose the photoconductor to light for more than 10 minutes it may become damaged.

Cover the cartridge if it will be exposed to light for more than 10 minutes.

**8 Remove the orange tabs and any packing material or tape from the print cartridge.**

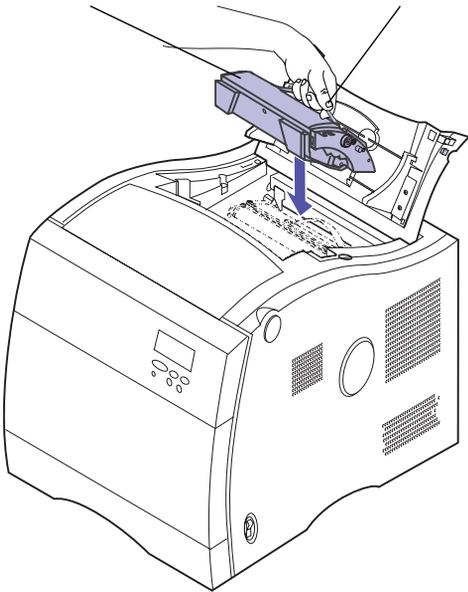
There are two orange tabs, one on each side of the print cartridge.

Pull the orange tabs away from the print cartridge to remove them.

**9 Gently shake the print cartridge to distribute the toner evenly.**

**Note:** Each cartridge is keyed and color coded to fit a specific location on the carousel. If the cartridge does not fit, ensure the cartridge is being placed in the correct location.

Photoconductor shutter    Print cartridge handle



**10** Angle the print cartridge and place it on the carousel.

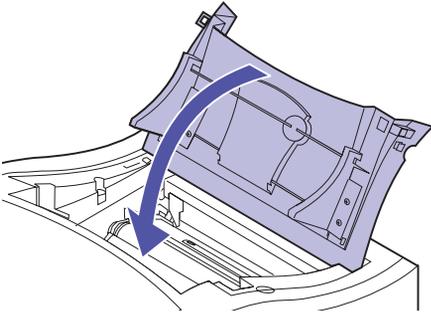
The cartridge is installed with the photoconductor shutter towards the front of the printer. To align and insert the cartridge, the edge of the cartridge toward the rear of the printer must be angled downward.

**11** Make sure the cartridge is lying flush on the carousel.

**12** Press the print cartridge handle to flatten the handle against the print cartridge.

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**Note:** The cover must be closed for the carousel to rotate to the next empty position. If you have a duplex unit installed you must close both the duplex unit and cartridge covers for the carousel to rotate.

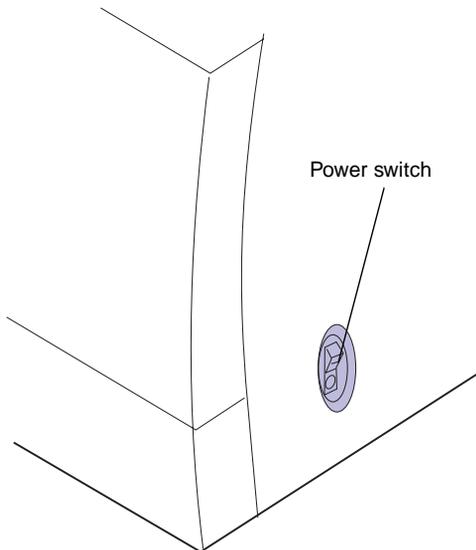


**13** Close the cartridge cover.

After you close the cover, the printer searches for another missing cartridge. The operator panel displays which color must be installed if another cartridge is missing.

Repeat steps 4 through 13 to install another cartridge.

**14** Place the printer power switch in the off (O) position.



# Step 9: Attach the cables

## Cable information

You can attach the printer to a LAN by:

- Connecting the printer directly to the server using a parallel or serial cable.

Your printer's standard parallel port requires an IEEE-1284 compliant parallel cable. We recommend Lexmark part number 1329605 (10 ft) or 1427498 (20 ft). If you installed an optional parallel port adapter, you need a 3 m (9.8 ft) 1284 A-C parallel cable, such as Lexmark part number 43H5171. If you use something other than an IEEE-compliant cable, you may not be able to access all of your printer's functions.

If you're attaching a serial cable, we recommend Lexmark part number 1038693 (50 ft). Attach the cable to the serial connector on the optional tri-port adapter you installed in the printer.

- Connecting the printer directly to the LAN:
  - Use an External Network Adapter (ENA), such as Lexmark's MarkNet Pro
  - Use a print server, such as the MarkNet N2000 series described on page 22
  - Use the optional tri-port adapter to connect to a LocalTalk network

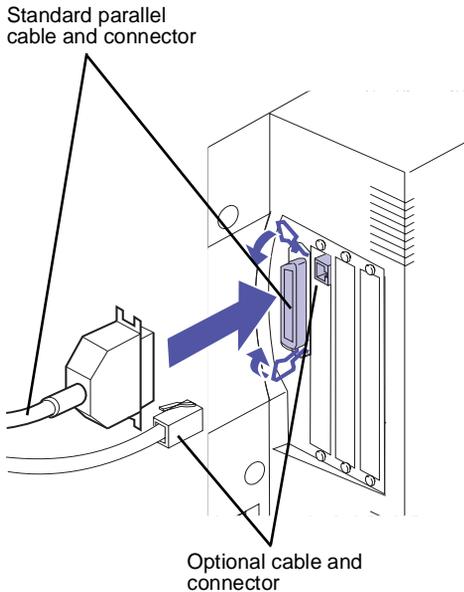
For more information about your particular adapter, refer to the documentation that came with the adapter.

**Note:** Connect only one network cable even if the internal print server (sometimes called internal network adapter) has more than one network port.

**Caution!** When connecting a cable to the printer from another powered component make sure you unplug that component before connecting any cables to the printer.

To attach a cable to your printer:

- 1 Make sure the printer power is off (O) and the power cord is unplugged.
- 2 At the left rear of printer, locate the parallel, serial, or network cable connector.  
One parallel connector is standard. Depending on the options you have installed, additional parallel, serial and network connectors may be available.
- 3 Connect the appropriate cable.



Use the table below to locate your next step

Do you need to...
"Connect an external fax modem", see page 67
"Connect an infrared adapter", see page 70
"Continue with printer setup", see step 4

- 4 Plug the power cord into a properly grounded electrical outlet.
- 5 Place the printer power switch to on (I).

**Note:** If you are installing a fax modem or infrared adapter, do not connect the power cord or turn on the printer at this time.

Proceed to Step 10: "Load the paper tray" on page 73

## Connecting an external fax modem

If you installed an optional tri-port adapter in your printer, you can attach an external, class 1 fax modem to the serial port on the adapter. You can then use your printer to receive faxes.

Faxes received print in black only. You cannot send faxes from your printer.

To set up the serial port to receive faxes:

- 1 Make sure the printer power is off (O) and the power cord is unplugged.**
- 2 Place the modem power switch to off (O).**
- 3 Follow the instructions included with the modem to connect the modem to the serial port.**

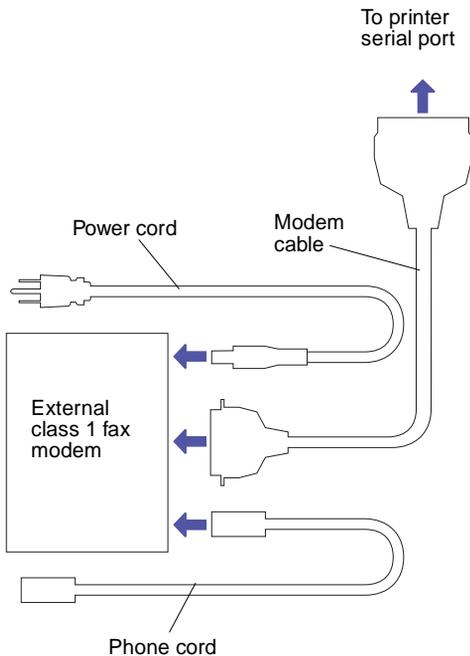
The modem connects to the printer in the same way it would connect to a computer. Make sure the modem cable has a 25-pin connector to attach to the serial connector on the printer.

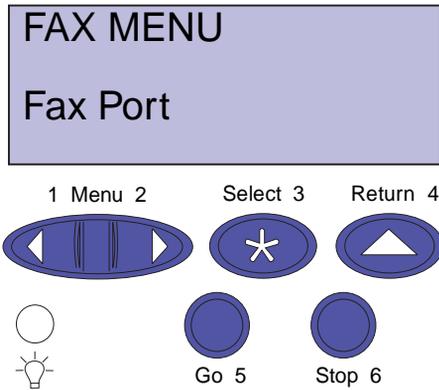
- 4 Plug the modem power cord into a properly grounded electrical outlet.**
- 5 Place the modem power switch to on (I).**

You must turn the modem on *before* you turn on the printer.

- 6 Plug the printer power cord into a properly grounded electrical outlet.**
- 7 Place the printer power switch to on (I).**
- 8 From the printer operator panel:**

- a Press the Menu> or <Menu button to enter the menus.**





**Note:** Do not attempt to configure the serial port for multiple uses with an A-B switch.

- b** Continue to press **Menu>** or **<Menu** until you see the **FAX MENU**.
- c** Press the **Select** button.  
**Fax Port** appears on the second line of the display.
- d** Press the **Select** button.
- e** Press **Menu>** or **<Menu** until the serial port you want to set up as a fax port appears on the second line of the display.  
 For example, if you installed a tri-port adapter in connector 2, look for **Ser Option 2**.
- f** Press the **Select** button.

The printer resets. You are now ready to receive faxes.

Refer to the printer *User's Guide* for information about changing the fax communication settings, such as baud and parity.

To disable the fax modem and restore the printer serial port to normal use:

- 1 From the printer operator panel:**
  - a** Press the **Menu>** or **<Menu** button to enter the menus.
  - b** Continue to press **Menu>** or **<Menu** until you see **FAX MENU** displayed.
  - c** Press the **Select** button.  
**Fax Port** appears on the second line of the display.
  - d** Press the **Select** button.
  - e** Press **Menu>** or **<Menu** until **Disabled** appears on the second line of the display.
  - f** Press the **Select** button to reset the printer.
- 2** Place the modem power switch to off (O).

- 3 Place the printer power switch to off (O).
- 4 Unplug the printer power cord from the electrical outlet.
- 5 Unplug the modem power cord from the electrical outlet.
- 6 Disconnect the modem cable from the printer serial port.
- 7 Plug the end of the printer power cord into a properly grounded electrical outlet.
- 8 Place the printer power switch to on (I).



Use the table below  
to locate your next step

Do you need to...
"Connect an infrared adapter", see page 70
"Load the paper tray", see page 73

## Connect infrared adapter

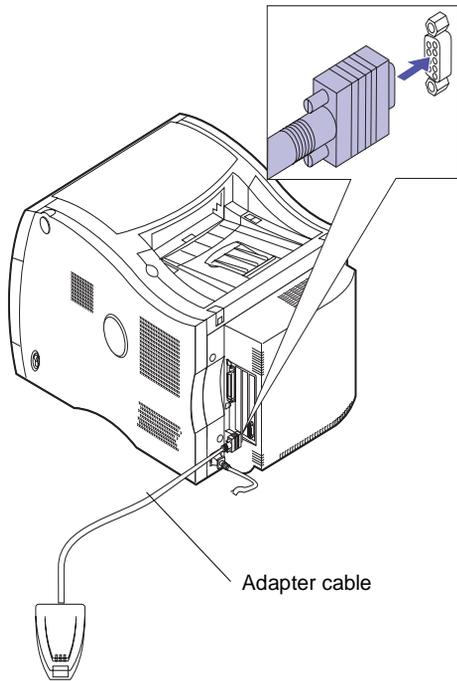
You can use an infrared adapter to print remotely from a computer equipped with an infrared port.

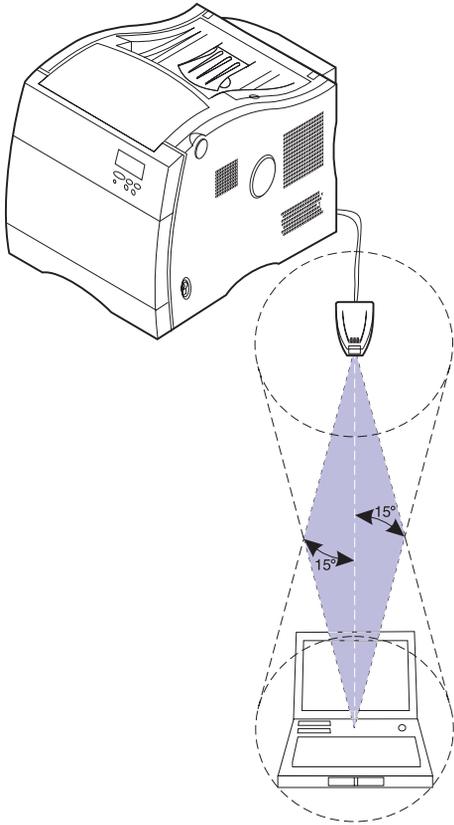
The optional tri-port adapter, which includes an infrared port, lets you connect the infrared adapter to your printer.

After you have installed the tri-port adapter, complete the following steps to connect the infrared adapter to your printer:

- 1 Make sure the printer power is off (O).**
- 2 Unplug the printer power cord from the electrical outlet.**
- 3 Locate the infrared port at the left rear of printer.**  
The infrared port is attached to the tri-port adapter you installed earlier.
- 4 Plug the adapter cable into the infrared port.**
- 5 Plug the printer power cord into a properly grounded electrical outlet.**
- 6 Place the printer power switch to on (I).**

If the light on the infrared adapter comes on when the printer power is on, the adapter is plugged into the printer port correctly.





- 7** Draw an imaginary line between the infrared port on the computer and the infrared port on the front of the adapter.

Refer to the documentation that came with your computer for information about your computer's infrared port.

- 8** Aim the infrared port on your computer within 15 degrees of either side of this line.



# Step 10: Load the paper tray

## Loading the paper trays

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**Note:** Do not place paper into the duplex unit tray.

---

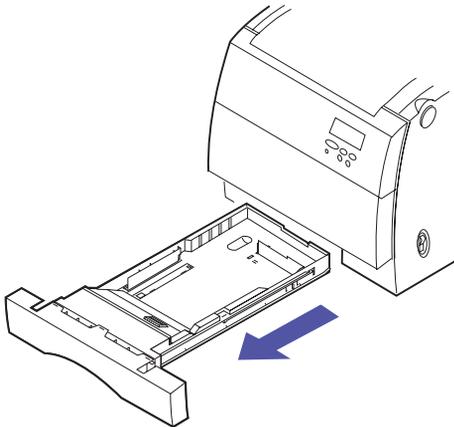
**Note:** If you load transparencies in tray 1, make sure you change the Paper Type setting to transparency. See “Changing the Paper Type setting” on page 81 for more information.

Your printer has one standard 250-sheet tray—tray 1—that holds A4, B5, letter, legal, and executive size paper. You can also load transparencies in tray 1 or the multipurpose feeder. For details about the types of media your printer supports, refer to your printer *User's Guide*.

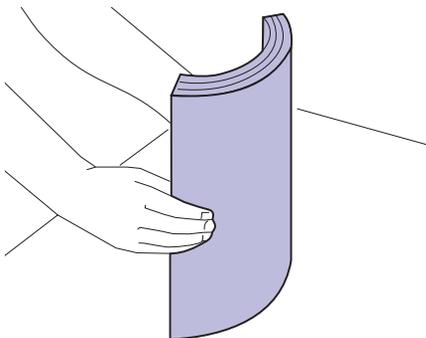
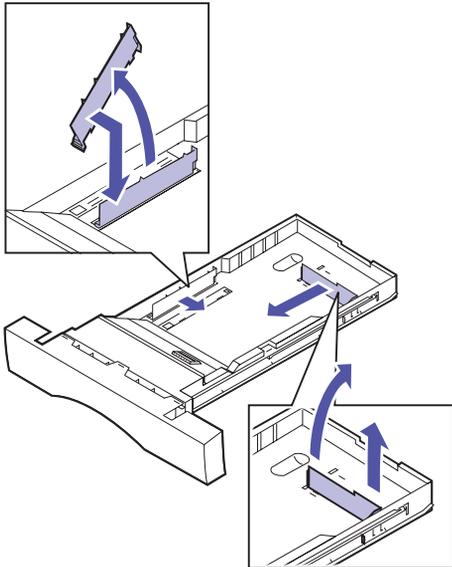
If you attached an optional drawer unit, the instructions are the same for loading paper in those trays. However, load *only* paper in tray 2 and tray 3.

To load the tray:

- 1 Pull the paper tray completely out of the printer.
- 2 Set the paper tray on a flat surface.



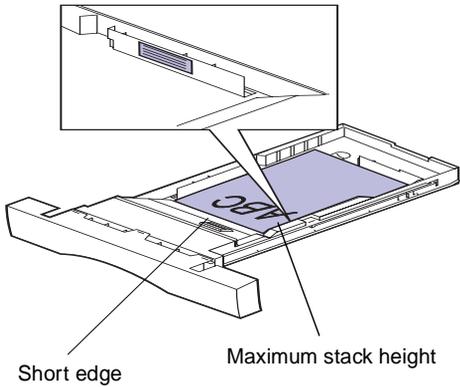
**Note:** If you are loading A4 or letter size paper, the tray may already be set up for the appropriate paper size.



- 3** Squeeze the snap lock on the end of the rear paper guide.
- 4** Lift the rear paper guide from the tray.
- 5** Align the rear paper guide with the position for the paper size you are loading.

The position of the rear paper guide tells the printer the size of the paper in the tray. If the rear paper guide is in the wrong position, you may experience paper feeding problems or incorrect formatting of pages.

- 6** Set the rear paper guide into the holes on the side and bottom of the paper tray.
- 7** Squeeze the snap lock on the end of the side paper guide.
- 8** Lift the side paper guide from the paper tray.
- 9** Align the side paper guide with the position for the paper size you are loading.
- 10** Set the side paper guide into the holes on the side and bottom of the paper tray.
- 11** Before loading the paper, flex the sheets back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

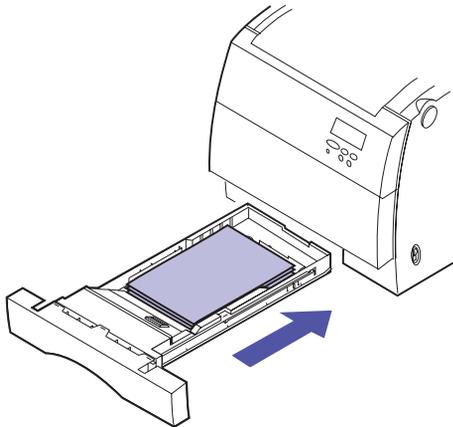


**12** Load the paper with the recommended print side face up.

Do not exceed the maximum stack height indicated on the paper guide.

Place the *short edge* of the paper at the front of the tray.

If you're loading preprinted letterhead, place the top of the page at the front of the tray with the letter head up.



**13** Slide the paper tray into the printer.

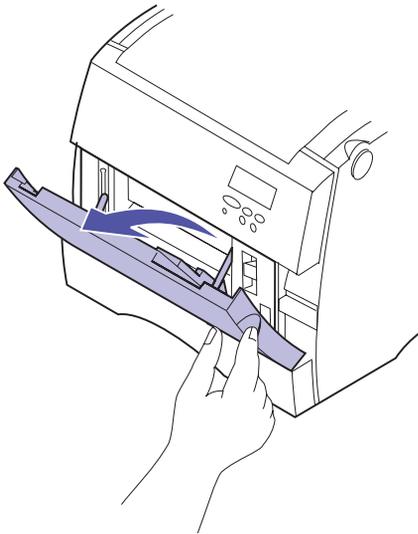
## Load multipurpose feeder

You can load up to 50 sheets of paper, 30 transparencies, 30 sheets of labels, or 9 envelopes in the multipurpose feeder. You can also use the multipurpose feeder for manually feeding single sheets of media. Refer to your *User's Guide* for more details about printing transparencies, envelopes, labels and card stock through the multipurpose feeder.

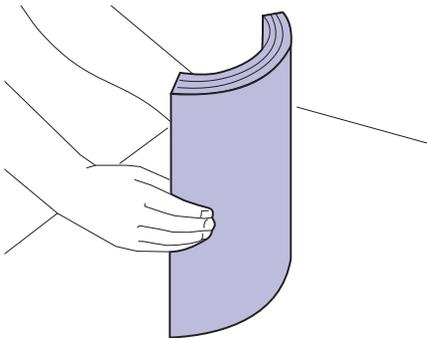
To load paper in the multipurpose feeder:

---

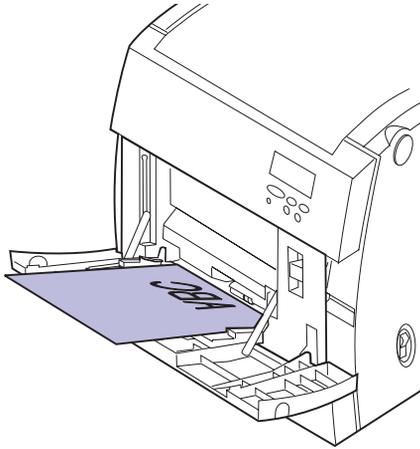
**Note:** Do not close the multipurpose feeder while paper or envelopes are in the feeder.



**1** Pull the front of the multipurpose feeder down.



**2** Before loading the media, flex the sheets back and forth to loosen them, and then fan them. Straighten the edges on a level surface.



- 3 Load the media face down and slide the paper guide to the right until it touches the media.**

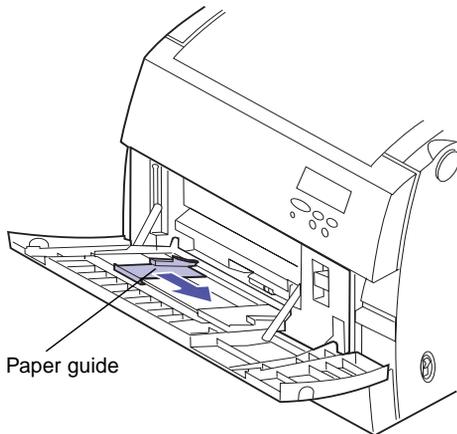
If you are loading preprinted letterhead, place the top of the page toward the printer face down.

- 4 Set the paper type for the type media you are using.**

You can set the paper type through the paper menu on the operator panel or your printer driver. For more information on setting the paper type, see “Changing the Paper Type setting” on page 81.

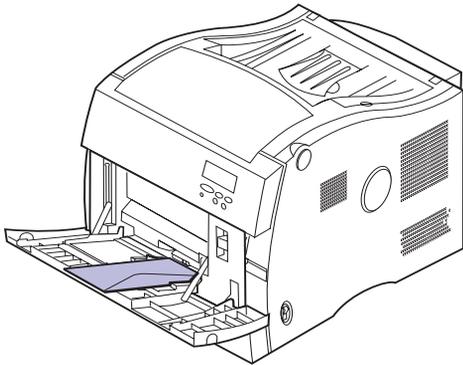
---

**Note:** Paper removed for clarity.



## Loading envelopes

**Note:** Do not load envelopes in the paper trays. Envelopes can only be fed through the multipurpose feeder.



- 1 Place the envelopes on the multipurpose feeder with the flap up and on the right side of the printer. Make sure the short edge of the envelope enters the printer as shown.**

Do not load envelopes that have been prestamped by the post office.

Do not load envelopes with stamps affixed.

Do not load envelopes that contain windows, holes, perforations, cutouts, or embossing

Do not close the multipurpose feeder while envelopes are in the feeder.

Refer to your *User's Guide* for more information on using envelopes.

- 2 Set the paper source to MP Envelope.**

You can set the paper source through the **PAPER MENU** on the operator panel or your printer driver.

- 3 Set the envelope size to match your envelope.**

You can use your operator panel or printer driver to select the appropriate envelope size through the **Manual Env Size** settings listed under **PAPER MENU** and **PAPER SIZE**.

# Step 11: Verify setup

This section of the setup guide will help you verify your printer is installed and operating correctly. You will print a settings page you can review to identify all of your installed options. The settings page also indicates if they are operating correctly.

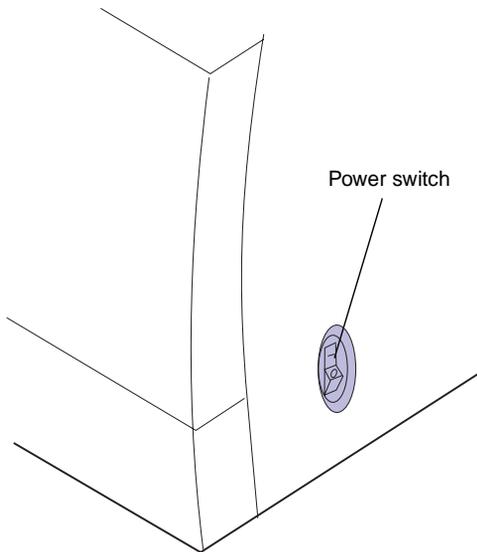
## 1 Make sure the printer is on (I).

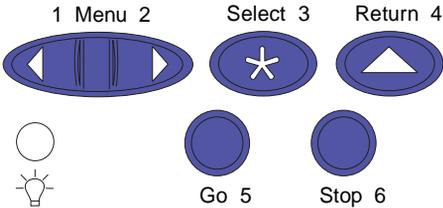
After you turn the printer on, it performs a self test and warms up. During this period, the messages **Performing Self Test** and **Warming Engine** appear on the operator panel display.

The self test and warming of the printer ensures all components function and the printer is at the correct operating temperature for proper operation.

If you receive an error code on the operator panel display such as **Error 202** (coating roll missing) refer to the troubleshooting section of the *User's Guide*.

After the printer completes its internal tests and warms, the **Ready** status message is displayed.





If Power Saver is set On (the factory default), **Power Saver** replaces the **Ready** status message after the specified period of time. Both messages indicate the printer is ready to receive print jobs. Refer to the *User's Guide* for more information about modifying the Power Saver setting.

If an error message is displayed, refer to the *User's Guide* for helpful tips.

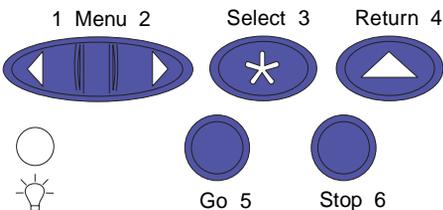
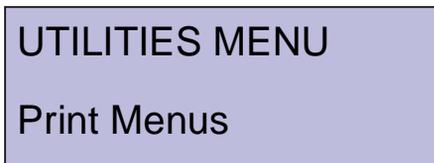
## Printing the menu settings

Print the menu settings page to review the default printer settings and to verify the printer options are installed correctly. For more information about using the printer operator panel and changing menu settings, refer to the *User's Guide*.

Complete the following steps to print the menu settings page.

- 1 From the printer operator panel, press the **Menu>** or **<Menu** button to enter the operator panel menus.
- 2 Continue to press and release **Menu>** or **<Menu** until you see **UTILITIES MENU** displayed on the operator panel.
- 3 Press the **Select** button.

**UTILITIES MENU** is then displayed on the first line, and **Print Menus** is on the second line.



---

**Note:** Before printing the menu settings page, ensure the selected paper source holds A4 or letter size paper. If you use different size paper or different paper type, you need to set the printer to the correct size and type. Refer to the *User's Guide* for more information on paper sizes and sources.

**4 Press the Select button again to print the menu settings page.**

The message **Printing Menu Settings** is displayed. The printer will return to **Ready** status after the menu settings page prints.

If an error message appears on the display, refer to the *User's Guide* for more information.

**5 Verify the options you installed are listed on the menu settings page under "Installed Features."**

If an option you installed does not appear on the page, turn the printer off, unplug the power cord, and reinstall the option.

**6 If you attached a serial cable, verify the printer serial settings listed on the menu settings page are appropriate for your system.**

Refer to the *User's Guide* for more information about the Serial Menu and changing these settings.

## Changing the Paper Type setting

It is important to verify the Paper Type settings are accurate for all the installed paper sources. Refer to the menu settings page you printed. The Paper Type is listed for each of the installed paper sources.

Paper Type refers to the type of media loaded in the sources: plain paper, letterhead, envelopes, and transparencies. Since different sources can hold different media, you can customize the Paper Type settings for each source.

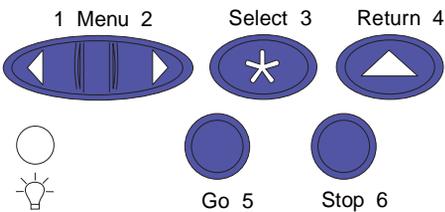
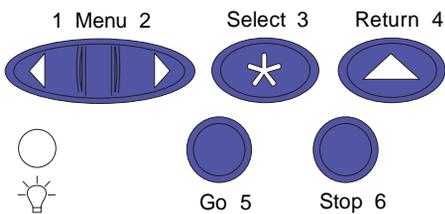
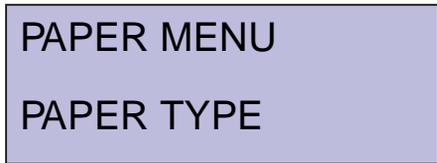
The printer uses the Paper Type setting to optimize print quality for the media you specified. For example, selecting the Transparency paper type causes the printer to heat the fuser to a higher temperature and slows printing to produce the best transparency possible.

The Paper Type setting also affects the printer's automatic source selection capability, as well as the tray linking function. For these reasons, it's important to change the setting each time you change the media in the tray or feeder.

Refer to the *User's Guide* for more detailed information about the paper types supported by each paper source, as well as ways to use the Paper Type setting to make printing more efficient in your work environment.

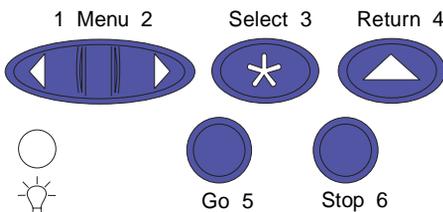
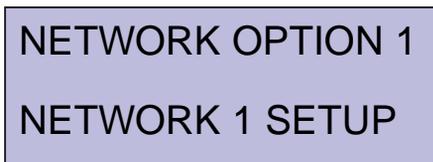
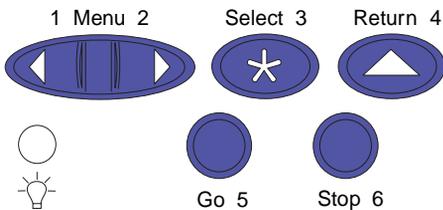
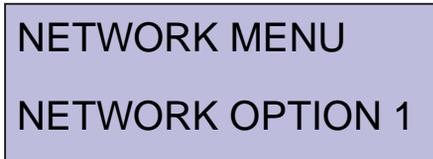
If you need to change a Paper Type setting:

- 1 From the printer operator panel, press the **Menu>** or **<Menu** button to enter the menus.  
**PAPER MENU** appears on the second line of the display.
- 2 Press the **Select** button to open the Paper Menu.
- 3 Press and release **Menu>** until **PAPER TYPE** appears on the second line.
- 4 Press the **Select** button.  
**Tray 1 Type** appears on the second line of the display.
- 5 Press the **Select** again if you want to change the Tray 1 Type setting.
- 6 Press **Menu>** or **<Menu** to scroll through a list of possible paper types for tray 1.
- 7 When the correct paper type appears on the second line of the display, press the **Select** button again to save the type as the default for tray 1.
- 8 If you need to change the Paper Type setting for another source, press **Menu>** to scroll to the appropriate source, and then repeat steps 5 through 7.
- 9 When you are finished changing the Paper Type settings, press the **Go** button to return the printer to the ready state.



## Printing an adapter setup page

**Note:** You will need this information during network setup.

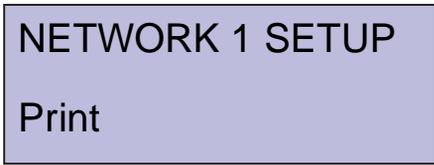


If you installed a network adapter and want detailed information about the option and the active protocols, complete the following instructions to print the adapter setup page:

- 1 From the operator panel, press **Menu>** or **<Menu** to enter the menus.
- 2 Continue to press and release **Menu>** or **<Menu** until you see **NETWORK MENU** displayed on the operator panel.
- 3 Press the **Select** button.

**NETWORK OPTION 1** appears on the second line of the display. If necessary, press **Menu>** or **<Menu** to display the correct network option.

- 4 Press the **Select** button.
- 5 Press **Menu>** or **<Menu** until you see **NETWORK 1 SETUP** on the second line of the display.



- 6 Press the **Select** button.
- 7 Press **Menu>** or **<Menu** until you see **Print** on the second line of the display.



- 8 Press the **Select** button.  
**Print Setup Page** appears on the second line of the display.
- 9 Press the **Select** button to print the page.

# Step 12: Load MarkVision and drivers

## Load drivers



The Compact Disc (CD) shipped with your printer contains the printer drivers and utilities for Windows 95/98, Windows NT 4.0, Macintosh and OS/2. Drivers are available for both PostScript Level 3 and PCL emulations.

Refer to the CD Readme for a complete list of all the drivers included on the CD. Updated drivers, as well as a complete description of the driver packages and Lexmark driver support, are also available electronically from the Lexmark Web site on the World Wide Web. Refer to the *User's Guide* for more information about getting updated drivers.

To support all the printer's features, install the custom Lexmark drivers on your system. If you use drivers designed for printers other than the Optra C710 Color Laser Printer, you may not be able to control all of the printer's functions. For more information about these functions, refer to the driver online Help.

In addition to printer drivers, you may be particularly interested in installing the MarkVision™ printer utility. MarkVision provides numerous printer management tools that can help you set up a network of printers, monitor the status of the printers, and collect information about printer use. For more information about MarkVision features and installation, refer to the MarkVision or *User's Guide*.

---

**Note:** If you only have infrequent access to a CD-ROM drive, you can create installation diskettes from the CD.

---

**Note:** To use your printer most effectively, we recommend you install the custom Lexmark printer drivers appropriate for your printing environment.

## 1 Launch the CD.

Refer to the booklet included with the CD for information about launching the CD program for your operating system.

When you launch the CD, the CD program displays icons or text items that let you choose what you want to do.

If necessary, you can change the language of the text the CD displays on the screen. This also changes the language of the text displayed on the user interface screens for the drivers and utilities you choose to install.

## 2 Select the appropriate icon to:

- Install printer drivers
- Install the MarkVision printer utility
- Install network support
- Install screen fonts
- View the CD Readme
- Access Lexmark support phone numbers
- Create diskettes
- Register your printer (Windows operating systems only)

At any time the CD program is running, press F1 for online Help. Refer to the CD Readme for the latest information about the contents of the CD.

## Congratulations!

You have successfully set up your Optra C710 Color Laser Printer for individual use. If you need to configure your printer for use on a network, continue with the Step 13: "Configure the network printer" on page 87.

Refer to the *User's Guide* for complete information about all of the unique features of your Lexmark color printer.

# Step 13: Configure the network printer

## Configuring the printer for your network

If you purchased an Optra C710N printer or if you have installed a network option, you can use these instructions to configure your printer on a network.

If you installed the network card after initial printer setup or have not connected the printer to the network see “attach a cable to your printer” on page 66.

---

**Note:** You may already have printed a network setup page during printer verification.

## Printing a network setup page

Use the printer operator panel to print the network setup page. (Hint: *Network Menu/Network Option x/Network x Setup/Print/Print Setup Page*).

The network setup page shows the physical address, known as the Universally Administered Address (UAA), of the print server and other important data. Look for the UAA under the Network heading on the setup page.

---

**Note:** The UAA is preset at the factory. However, you can override it with an optional Locally Administered Address (LAA) if you want some particular physical address for this print server.

The UAA is a 12-digit number. The left column shows the address in MSB form and the right column shows the address in canonical form. Save this page to use later.

## Configuring and printing

### About the Drivers, MarkVision and Utilities CD

You may have received more than one version of the *Drivers, MarkVision and Utilities CD*, with different Lexmark products. Always use the latest version CD.

### Troubleshooting

For troubleshooting information, look on the *Drivers, MarkVision and Utilities CD*. Click View Documentation and look for the MarkNet link.



Use the table below  
to locate your next step

Your network environment is...	Turn to page
TCP/IP	88
Novell NetWare	93
AppleTalk	95
OS/2 Warp Server	95

### TCP/IP Set the IP address, netmask, and gateway

**Note:** For instructions on other ways to set the IP address, look on the *Drivers, MarkVision, and Utilities CD*. Click View Documentation and look for the MarkNet link.

You must assign an IP address, netmask, and gateway to the print server for other network devices to find the printer on the network.

- If you have DHCP, the proper address values are automatically assigned. To verify the assignment has happened, print a network setup page and make sure the IP address, netmask and gateway appear as non-zero.
- If you don't have DHCP, there are other methods you can use to manually assign the address such as:

the printer operator panel, static ARP and telnet, RARP and telnet, BOOTP, or MarkVision or other Lexmark utility. Instructions for three of these methods follow.

## Printer operator panel

A simple way to set the IP address, netmask and gateway inside the print server is to use the operator panel. You need to be standing at the printer to use this method.

---

**Note:** “X” designates which option slot in the printer is being used. For example, if you install the MarkNet card in option slot 2, the operator panel selection would read: **Network Option 2.**

- 1** On the operator panel, choose **Network Menu, Network Option X, Network Option X Setup, TCP/IP, Set IP Address.** (Hint: Press **Menu>** until you see the correct menu item, and then press **Select.**)
- 2** When the current IP address is displayed, use the buttons to change the address. (Hint: Pressing **Select** advances you to the next segment in the address. Pressing **Menu>** increases the number by one. **<Menu** decreases the number by one.)
- 3** When you finish setting the IP address, press **Select** until the word **SAVED** appears briefly. Print a new network setup page to verify the parameters are set as you intended.

## Static ARP and telnet

You can use this method from any Windows, OS/2, or UNIX workstation. You need to know the physical address of the print server to use this method.

---

**Note:** The workstation and the printer must be on the same subnet.

- 1** Find the physical address (UAA) of the print server (for example, 00200022012F) on the network setup page you printed earlier. If you have an Ethernet network, use the number in the right column (canonical). If you have a Token-Ring network, use the number in the left column (MSB).

- 2 Set the IP address in your workstation ARP table. At a command prompt, type a command line similar to the following, inserting the IP address you want to assign and the UAA:

```
arp -s 192.168.236.24 00-20-00-22-01-2F
```

- 3 Set the IP address, netmask and gateway in the print server. To do this, telnet to port 9000 on the print server by typing a command similar to the following:

```
telnet 192.168.236.24 9000
```

- 4 Verify the print server is up and running on the network.

```
ping 192.168.236.24
```

### Print server TCP/IP setup utility

You can use this simple utility to initialize the IP address if your workstation is running Windows 95, Windows 98 or Windows NT and is on the same subnet as the printer. You need to know the physical address of the print server to use this method. You can locate the UAA on the print server setup page.

---

**Note:** It does not matter which form of the UAA you use (MSB or canonical).

---

**Note:** Information on installing, using and troubleshooting the utility resides on the *Drivers, MarkVision and Utilities* CD.

To install this utility, launch the *Drivers, MarkVision and Utilities* CD, do a custom install to add network support, and select Print Server TCP/IP Setup Utility.

Once the IP address has been set (using any method), you can use your browser to remotely view and manage the network printer. Functions include viewing printer status in real time, resetting the printer, changing settings, and so forth. Type the print server IP address in the URL field of the browser (for example, `http://192.168.236.24`) and press Enter.

## Set up to print

There are many ways to send a print job including FTP, TFTP, LPR/LPD, point-to-point (LexIP), and various queue-based methods. Instructions for two of the methods follow.

---

**Note:** If you are using Windows NT Server 4.0 or later *and* running TCP/IP, you can use Network Plug and Print to automate your printer setup process.

---

**Note:** For details on installing the necessary software, look on the *Drivers, MarkVision, and Utilities CD*. Click View Documents and look for the MarkNet link.

### Print to a queue on a Windows NT server

This section explains the setup for queue-based printing where network users print to a queue defined on a Windows NT server. The print server services this queue.

To use this method, you must have at least one server running Windows NT Server software and TCP/IP.

The following instructions apply to Windows NT Server Versions 4.0 and later.

- 1** Install the TCP/IP software component on the server that contains the print queue. This software is necessary to establish the link between the MarkNet print server and the queue. Look on the Drivers, MarkVision and Utilities CD for the software. (*Hint: Do a custom install to add network support, and select TCP/IP.*)
- 2** Set up a print queue on the server. Do this by creating a printer object in the usual way. (*Hint: Start, Settings, Printers, Add Printer.*)
  - a** When prompted, select My Computer (not Network printer server).
  - b** Click Add Port.
  - c** Select Lexmark Network Port, and then click New Port. Follow the instructions on the screen.
  - d** Share the queue.
- 3** Set up your Windows 95, Windows 98, or Windows NT clients in the usual way. (*Hint: Start, Settings, Printers, Add Printer.*)

## Point-to-point printing (LexIP)

You can print from any Windows 95, Windows 98 or Windows NT workstation directly to a Lexmark printer located anywhere on the IP network. No server is required.

- 1** Install the TCP/IP software component on the workstation. Look on the Drivers, MarkVision and Utilities CD for the software. (*Hint: Do a custom install to add network support, and select TCP/IP.*)
- 2** Create a printer object on the workstation:
  - a** Click Start, Settings, Printers, Add Printer.
  - b** Windows 95/98: When prompted, select Local Printer (not Network). This gives you access to the Lexmark Network Printer Monitor later. Windows NT: When prompted, select My Computer (not Network Printer Server). This gives you access to the Lexmark Network Printer Monitor later.
  - c** Select the correct printer driver.
  - d** Select any port (LPT, COM, or FILE) for the initial setup. Later, you will change the port to a logical port.
  - e** Click Next, then continue following the instructions on the screen until the printer object has been created.
- 3** Associate the printer object with the physical printer.
  - a** Select the newly created printer object in the printers folder.
  - b** Windows 95/98: Click File, Properties, Details, Add Port. Windows NT: Click File, Properties, Ports, Add Port.

---

**Note:** You can obtain the latest Lexmark printer drivers from our web site located at: [www.lexmark.com](http://www.lexmark.com).

- c** Click **Other, Lexmark Network Printer Monitor**, then click **OK**. A list of available print servers is shown. If your print server does not appear in the list, click **Add Adapter** then follow the instructions on the screen until it does appear.
- d** Find the IP address of your print server in the list, then select it.
- e** Specify a logical port name to associate with the printer, then click **OK**.
- f** Verify that the logical port name you assigned to the printer now shows in the box labeled **Print to the following port**.

---

**Note:** You can print from DOS using LexIP if you assign a logical port name of LPT1, LPT2, LPT3 or LPT4.  
c:\>copy FileName LPT3

## Novell NetWare NDPS (Novell Distributed Print Services)

If you have MarkNet print servers in an NDPS environment, we recommend that you install the Lexmark NDPS IP Gateway. This allows your printers to be tightly integrated with NDPS so that you can easily monitor, control and print to them.

You can get the gateway plus all support files and installation procedures from the Lexmark web site ([www.lexmark.com](http://www.lexmark.com)).

### Non-NDPS (queue-based)

The easiest way to configure the print server for NetWare jobs in a non-NDPS environment is to use MarkVision. MarkVision can automatically create all the necessary NetWare objects (print queue objects, print server objects, and printer objects).

Do the following from a Windows NT workstation running Novell NetWare Client32 software, or from a Windows 95 or Windows 98 workstation running either Novell Client32 or Microsoft Client for NetWare networks.

---

**Note:** The default login name contains the characters !LEX plus the UAA of the MarkNet print server (for example, !LEX00200022012F).

---

**Note:** For information about choosing PSERVER or RPRINTER mode, look on the CD. Click View Documentation and look for the MarkNet link.

- 1 Install the NetWare software component on the workstation. Look on the Drivers, MarkVision and Utilities CD for the software. (*Hint: Do a custom install to add network support, and select NetWare.*)
- 2 Launch MarkVision. In the MarkVision main window, find the new network printer. Look for the line item containing your print server's physical address (the MSB form of the print server UAA).
- 3 Double-click the network printer. Configure the MarkNet print server by doing the following:
  - a Set a unique NetWare login name. This is the name the print server uses to log in to the NetWare server.
  - b Enable the MarkNet port.
  - c Select PSERVER mode.

If you want to manage NDS queues, you must specify the NDS tree and context where the MarkNet print server is defined. You also need to create or select queues to be serviced.

If you want to manage bindery queues, you must first specify the file servers. Afterward, you must create or select queues to be serviced.
- 4 If prompted to reset the print server, select Yes to immediately begin servicing the queues.

## AppleTalk

---

**Note:** MarkVision for Macintosh resides on the Drivers, MarkVision, and Utilities CD.

The MarkNet print server works automatically with AppleTalk networks. You simply connect the power and the network cables, and you're up and running. However, if you would like to use a zone and printer name different from the defaults, you can use MarkVision for Macintosh to change these settings.

Each Macintosh user on the AppleTalk network who wants to use the printer should do the following steps.

---

**Note:** A PPD file customizes the LaserWriter driver for your particular printer model.

- 1 In the Chooser, select the new printer, then click Create. If the system cannot find the appropriate PPD file to associate with the new printer, provide the necessary information yourself. For example, if prompted, specify which options are installed on the printer, such as duplex, memory, and so forth. Click OK when you are finished.**
- 2 Look for an icon to appear in the Chooser next to the printer name. This means a PPD is associated with the network printer. A new desktop printer icon is placed on your desktop, too.**
- 3 In the Chooser, select the printer you want to use now, then close the Chooser window.**

## OS/2 Warp Server

MarkNet print servers work on OS/2 Warp Server networks. Users can print to the network printer from any client that can successfully attach to the network.

For instructions on configuring the print server for OS/2 networks, look on the Drivers, MarkVision and Utilities CD. Click View Documentation and look for the MarkNet link.

## Troubleshooting

---

**Note:** For expanded troubleshooting information, look on the Drivers, MarkVision and Utilities CD. Click View Documentation and look for the MarkNet link.

---

**Note:** The file you use with FTP can be in PCL, PostScript, PDF, HTML or any other language the printer understands. If the file prints, this confirms the TCP/IP protocol is working properly in the MarkNet print server.

---

**Note:** To use the MarkNet resident web server, type the print server IP address in the URL field of your browser (for example, `http://192.168.236.24`).

Free firmware updates for any Lexmark print server are available on the web site at [www.lexmark.com](http://www.lexmark.com).

### TCP/IP

- 1 Make sure the TCP/IP protocol is turned on (activated) in the print server. To find out, print a network setup page and look in the paragraph under TCP/IP.
- 2 Issue a ping command to the print server.  

```
ping 192.168.236.24
```
- 3 Establish an FTP session with the print server.  

```
ftp 192.168.236.24
```
- 4 Using the FTP put command, print a file to the network printer.  

```
put mytest.ps
```
- 5 Check the port settings on the printer object.
- 6 Check all settings in the print server, using the MarkNet resident web server or MarkVision.
- 7 For non-UNIX networks: Uninstall Lexmark software.
- 8 For non-UNIX networks: Reinstall Lexmark software. During the reinstallation, select only those network protocols you actually use (for example, TCP/IP).
- 9 Try printing again.
- 10 If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the World Wide Web at <http://www.lexmark.com>.

## Novell NetWare NDPS (Novell Distributed Print Services)

- 1** Make sure the TCP/IP protocol is turned on (activated) in the print server. To find out, print a network setup page and look in the paragraph under TCP/IP.
- 2** Make sure your NetWare file server has TCP/IP support configured and loaded.
- 3** Make sure you are running NDPS version 2.0 or later.
- 4** Make sure you've created and loaded an NDPS Manager.
- 5** Read the online documentation about Lexmark's NDPS support. Look for a README file or a technical white paper in the package you downloaded from Lexmark's web site.
- 6** If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the World Wide Web at <http://www.lexmark.com>.

### Non-NDPS (queue-based)

- 1** Make sure the NetWare protocol is turned on (activated) in the print server. To find out, print a network setup page and look in the paragraph under NetWare.
- 2** Find out if the print server is servicing your NetWare queue.
- 3** If your queue doesn't appear in the list of queues being serviced, reset the printer, wait a few minutes, then look for the queue in the list again.
- 4** If your queue still does not appear in the list of queues being serviced, you have a print server setup problem. Reconfigure the MarkNet print server.

## Windows NT Server 4.0

---

**Note:** The file you use with FTP can be in PCL, PostScript, PDF, HTML or any other language the printer understands. If the file prints, this confirms the TCP/IP protocol is working properly in the MarkNet print server.

- 5 Try printing from some other application. If the job prints from the second application, you've narrowed the problem to the first application. Make sure you are using the current version of the driver for the problem application.
  - 6 Place a job in the queue using a Novell utility such as PCONSOLE. If the job doesn't print, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the World Wide Web at <http://www.lexmark.com>.
- 1 Make sure you are using TCP/IP for communications between the Windows server and the MarkNet print server.
  - 2 Make sure TCP/IP is turned on (activated) in the print server. To find out, print a network setup page and look in the paragraph under TCP/IP.
  - 3 Verify that TCP/IP is installed properly on the Windows server. (*Hint: Start, Settings, Control Panel, Network, Protocols*).
  - 4 Issue a ping command to the print server.  

```
ping 192.168.236.24
```
  - 5 Establish an FTP session with the print server.  

```
ftp 192.168.236.24
```
  - 6 Using the FTP put command, print a file.  

```
put mytest.ps
```

- 7** See if the network printer shows up in MarkVision.
  - If it doesn't, the print server may have down-level firmware.
  - If it does but you still cannot print, try removing then re-adding the Lexmark Network Port on the printer object.
- 8** Reset both the print server and the printer.
- 9** If possible, shut down Windows NT Server and restart the server. There could be a spooler problem that requires a restart.
- 10** Uninstall, then reinstall MarkVision. During the reinstallation, select only the network protocols you actually use (for example, TCP/IP). This also helps MarkVision run faster.
- 11** Try printing again.
- 12** If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the World Wide Web at <http://www.lexmark.com>.

## AppleTalk

- 1** Make sure the AppleTalk protocol is turned on (activated) in the print server. To find out, print a network setup page and look in the paragraph under AppleTalk.
- 2** Look at the network setup page again and notice the AppleTalk name and the AppleTalk zone for the printer.
- 3** Make sure you are looking at the correct zone in the Macintosh Chooser. The zone must be the same one as listed on the setup page.

- 4 Do you see the printer in the Chooser?**
  - If no, restart the Macintosh workstation and look again.
  - If yes, make sure the printer name in the Chooser exactly matches the AppleTalk name listed on the network setup page.
- 5 Check all connections. Check the cables on the back of the Macintosh workstation and on the printer.**
- 6 If the job prints but the print quality is poor, refer to the additional tips about optimizing Lexmark printer output provided on the CD. These tips can save you a lot of time. When you install MarkVision for Macintosh, these documents are automatically written to a folder on your desktop.**
- 7 If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the World Wide Web at <http://www.lexmark.com>.**

## Other network environments

For troubleshooting information about other network environments, look on the Drivers, MarkVision and Utilities CD. Click View Documentation and look for the MarkNet link.

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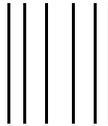
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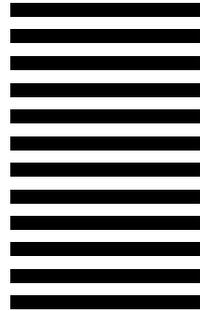
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