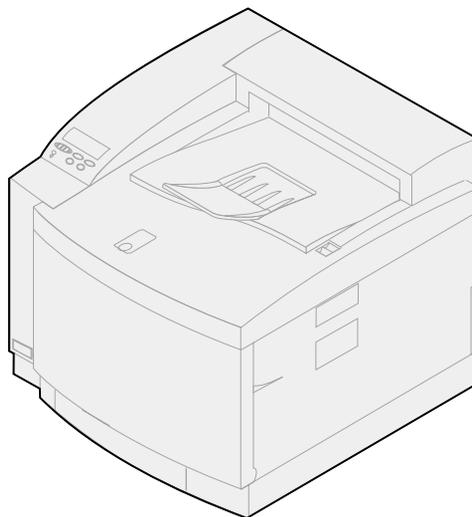




C720

Setup Guide



November 2000

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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.

FCC compliance

- This device complies with Part 15 of the FCC Rules for a Class B (without network) or Class A (with network) digital device. Refer to Notices on the Lexmark C720 online information for further information.

Table of contents

Using your documentation	1
Step 1: Select a location for your printer	3
Step 2: Unpack and position the optional drawer	7
Step 3: Unpack and position the printer	9
Step 4: Set up the optional drawer	15
Step 5: Install memory and network options	23
Step 6: Install the optional duplex unit	43
Step 7: Install supplies	49
Step 8: Attach the cables	61
Step 9: Load the paper tray	65
Step 10: Verify setup	75
Step 11: Load MarkVision and drivers	89
Step 12: Configure the network printer	91
Index	109

Using your documentation

About this book

This *Setup Guide* contains all the information you need to set up your new Lexmark™ C720 color laser printer. This manual provides detailed instructions for unpacking your printer, installing options, loading paper or media in the trays, and launching the CD to install printer drivers and utilities.

Note: Refer to the safety information in the front of this book before setting up your printer.

When you have completed setup and if you need more information about your printer, refer to the Lexmark C720 online information either on the Publications CD or on the Lexmark Web site at www.lexmark.com. Information is available on printer settings, color functions, media specifications, printer supplies, memory requirements, and solving printer problems.

Lexmark offers other sources of information about your printer or about Lexmark products and services. The *Drivers, MarkVision and Utilities* compact disc (CD) that comes with your printer contains several online documents. You can also access our site on the World Wide Web, www.lexmark.com.

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 should order a new black toner cartridge at this time.
- Notes, warnings, and cautions appear in the left column for easy reference.

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

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

CAUTION! A caution identifies something that might cause you harm.

- On selected pages, steps you may skip, or information about steps you may need to perform are identified with a colored arrow and table.



Use the table to locate your next step.

If you need to...	See page...
Determine the space requirements for your printer	3
Unpack and position the optional drawer unit	7
Unpack and position the printer	9

Step 1: Select a location for your printer



Choosing the correct location for your new Lexmark C720 printer is vital to ensuring the printer provides you with the quality of service you expect.

When selecting a place to set up your printer consider:

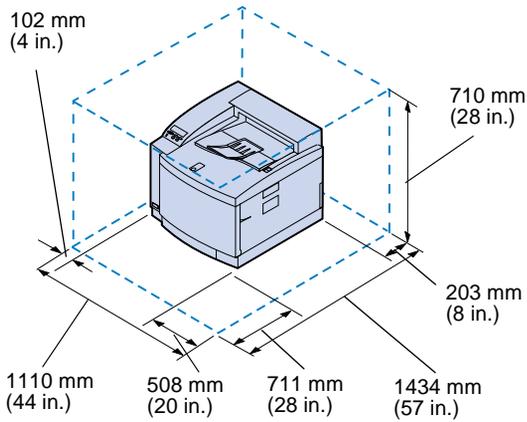
- The amount of space your printer and any options will require
- The type of environment necessary for optimum printer performance

Allowing enough space

Allow enough space for the printer and any options you may have purchased.

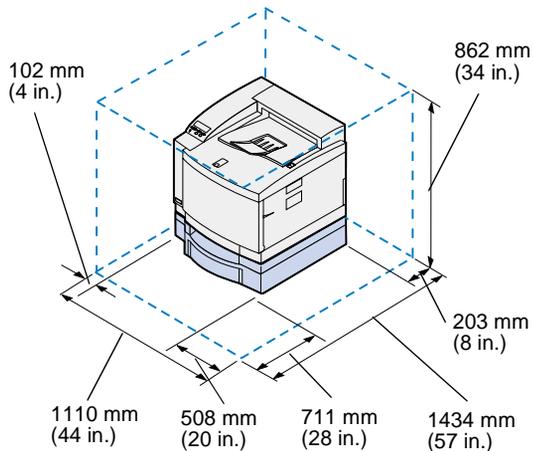
Leave enough room to open the printer's paper trays and top and rear doors. Allow space for proper venting around the printer.

For a base printer



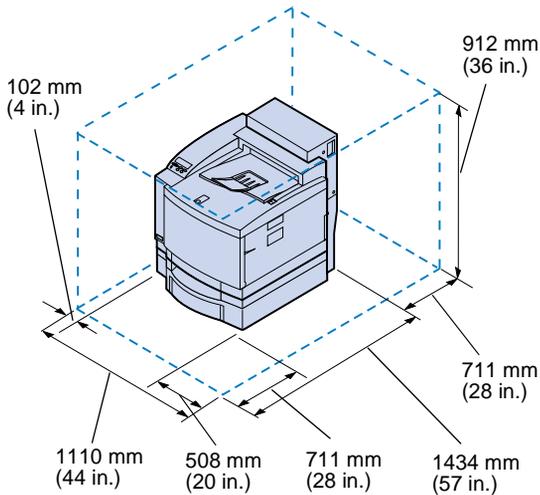
When selecting a location for your printer, make sure you have at least the amount of space indicated in the figure at left.

For a printer with an optional paper drawer



When selecting a location for your printer configured with an optional 500-sheet drawer, make sure you have at least the amount of space indicated in the figure at left.

For a printer with an optional paper drawer and duplex unit



When selecting a location for your printer configured with an optional 500-sheet drawer and duplex unit, make sure you have at least the amount of space indicated in the figure at left.

Considering environmental issues

Note: Adequate ventilation is especially important if you will be printing a high volume of materials, or if the printer will be used continuously over a long period of time.

When choosing a place to set up the printer, make sure the location you select is:

- A firm, level, and stable surface
- Well ventilated
- Away from the direct airflow of air conditioners, heaters, or ventilators
- Free of temperature or humidity extremes or fluctuations
- Clean, dry, and free of dust
- Away from direct sunlight

Moving the printer

In the future if you're going to move the printer, remember the following:

- The printer weighs approximately 39 kg (86 lb) and two people are required to lift it safely.
- When lifting, use the handholds on the sides.
- Remove the toner cartridges, photo developer cartridge, and oil bottle before you move the printer. Remove the oil from the oil sump after removing the oil bottle.
- Protect the photo developer cartridge from light by covering it with a cloth.
- Unlock the optional paper drawer from the printer by removing the rear locking clip and sliding the front lock to the left.
- Be sure to plug the printer into a properly grounded outlet.



Use the table to locate your next step.

If you need to...	See page...
Unpack and position the optional drawer	7
Unpack and position the printer	9

Step 2: Unpack and position the optional drawer

Your printer supports an optional drawer with a single 500-sheet tray. To install the optional drawer:

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

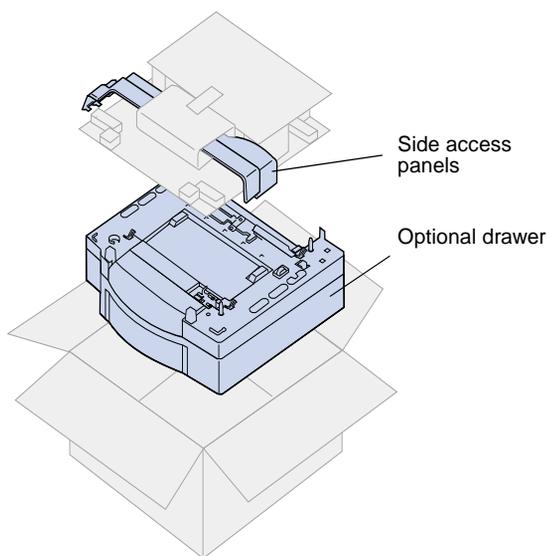
1 Remove the optional drawer and side access panels from the carton.

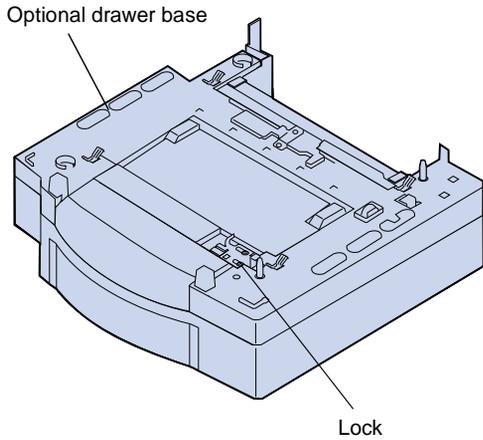
Save the carton and packing material in case you need to repack the drawer.

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

2 Remove any shipping tape and packing material from the drawer and tray.

3 Place the side access panels to the side.



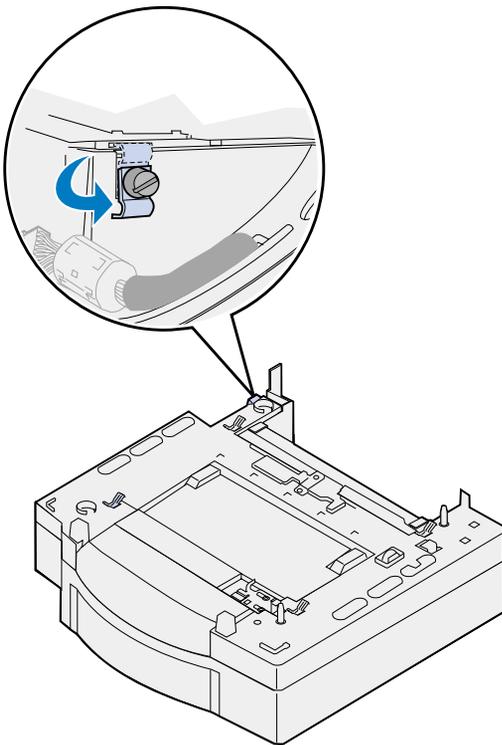


4 Place the optional drawer in the location you have selected for your printer.

5 Loosen the locking clip thumbscrew by rotating counterclockwise.

6 Rotate the locking clip so that it hangs down.

Rotating the locking clip down prevents damage to the connector cover and makes cover removal easier.

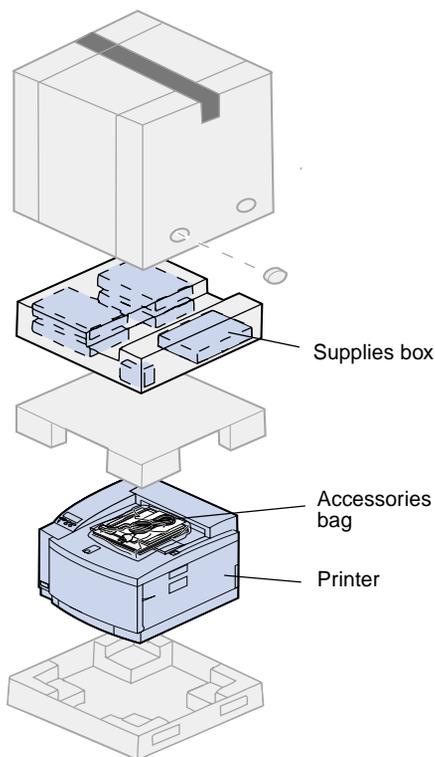


Note: Install the side access panels after the optional drawer or duplex unit electrical connections are made.

8 *Unpack and position the optional drawer*

Step 3: Unpack and position the printer

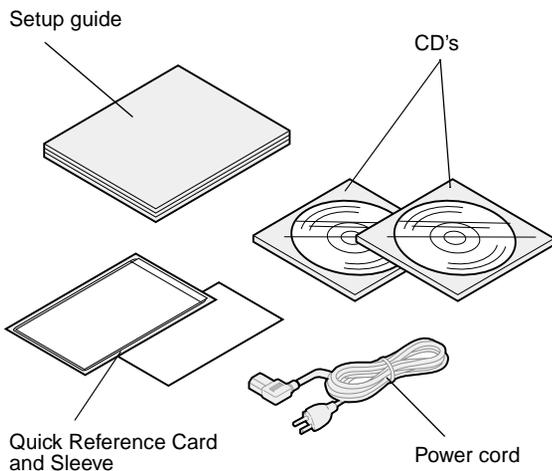
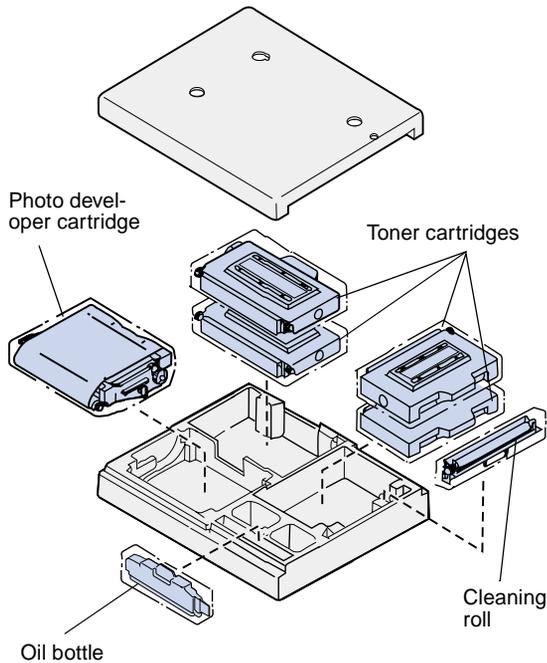
CAUTION! This printer weighs 39 kg (86 lb) and requires two people to lift it. Anytime you move or lift the printer make sure you have someone help you. Whenever you lift the printer use the hand-holds located on the sides.



- 1 Remove the supplies box and accessories bag from the printer carton.**

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

Note: Do not remove the oil bottle, photo developer, or toner cartridges from their individual packages until you are ready to use them.



2 Open the supplies box and make sure you have the following items:

- Cleaning roll
- Photo developer cartridge
- Black, magenta, cyan, and yellow toner cartridges
- Oil bottle

3 Open the accessories bag and make sure you have the following items.

- *Setup Guide and Quick Reference Card*
- *Publications CD*
- *Drivers, MarkVision and Utilities CD*
- *Power cord*

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

In addition to the *Publications CD*, you can access your C720 online information on our site on the World Wide Web at www.lexmark.com. There you can obtain up-to-date

information about Lexmark and Lexmark products.

Note: Place the printer in an area that will be convenient for removing the packing material and installing the components.

Position the printer

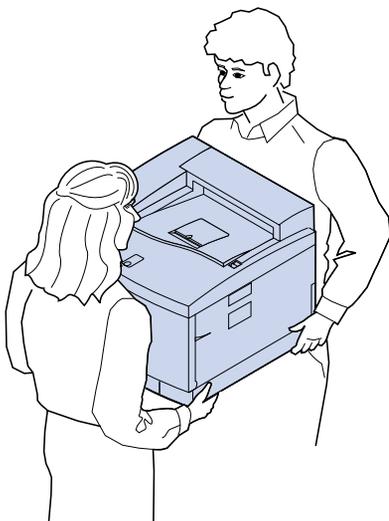
If you have an optional drawer follow the “Printer with optional drawer” procedures. Otherwise go follow the “Printer without optional drawer” procedures on page 13.

Printer with optional drawer

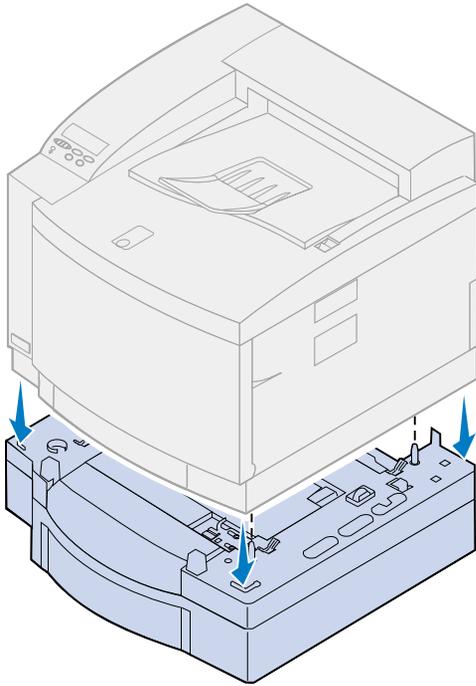
CAUTION! This printer weighs 39 kg (86 lb) and requires two people to lift it. Anytime you move or lift the printer make sure you have someone help you. Whenever you lift the printer use the handholds located on the sides of the printer.

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

When lifting, use the handholds on the sides.



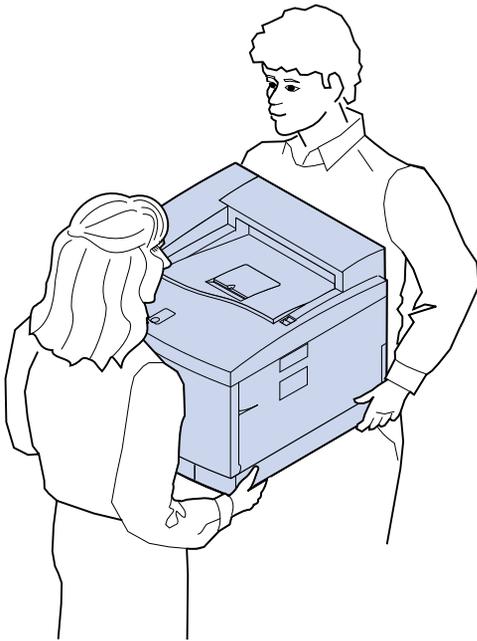
Note: If you align the sides and corners of the printer with the optional drawer and then lower the printer, the pins and connector align easier.



- 2** Align the pins on top of the optional drawer with the holes on the bottom of the printer.
- 3** Lower the printer onto the drawer.
- 4** Remove the shipping tape and other packing material from the exterior of the printer.
- 5** Continue with “Identifying printer parts” on page 14.

Printer without optional drawer

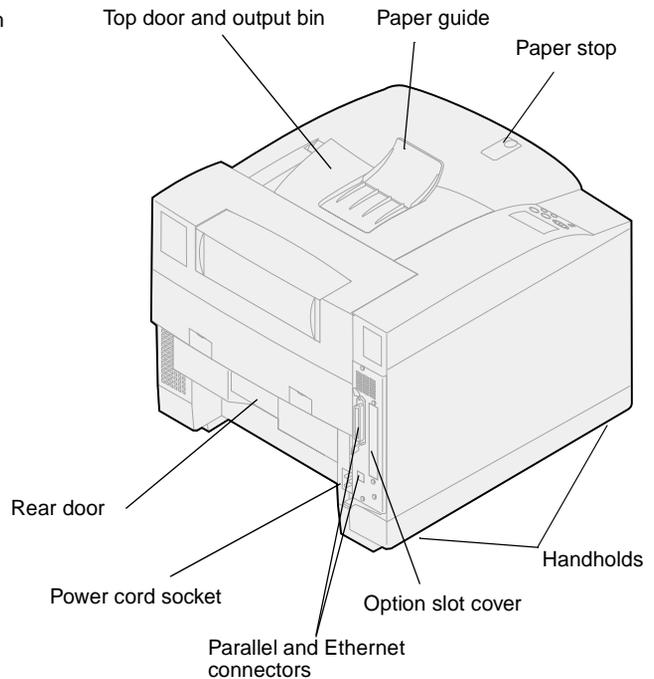
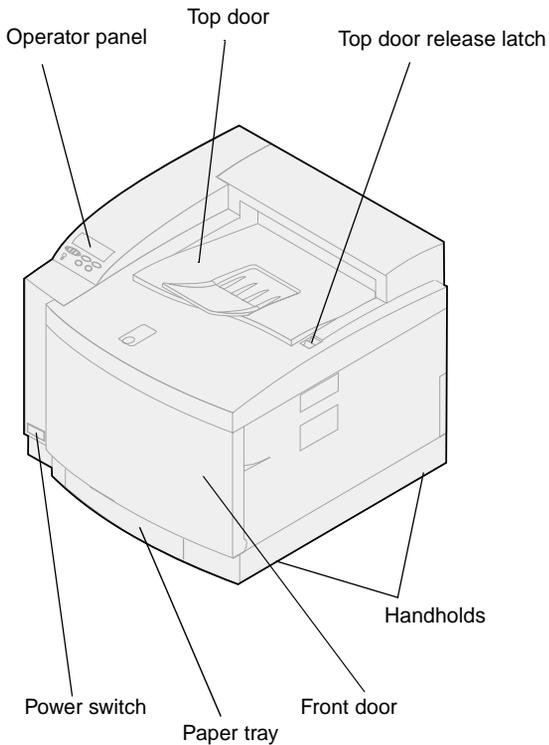
CAUTION! This printer weighs 39 kg (86 lb) and requires two people to lift it. Anytime you move or lift the printer make sure you have someone help you. Whenever you lift the printer use the handholds located on the sides of the printer.



- 1 Have someone help you lift the printer from the carton base.**
When lifting, use the handholds on the sides.
- 2 Place the printer on a flat, stable surface that will be convenient for removing the packing material and installing any options.**
- 3 Remove the shipping tape and other packing material from the exterior of the printer.**
- 4 Continue with “Identifying printer parts” on page 14.**

Identifying printer parts

Familiarize yourself with the names and locations of items on your new printer. This will help you during printer setup. We use the same terms throughout this book, the *Publications* CD and on the Lexmark C720 online information.

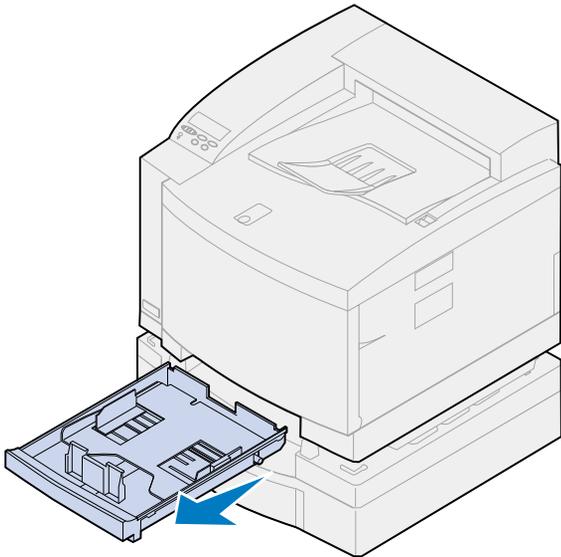


Use the table to locate your next step.

If you need to...	See page...
Set up the optional drawer	15
Install memory and network options	23
Install supplies	49

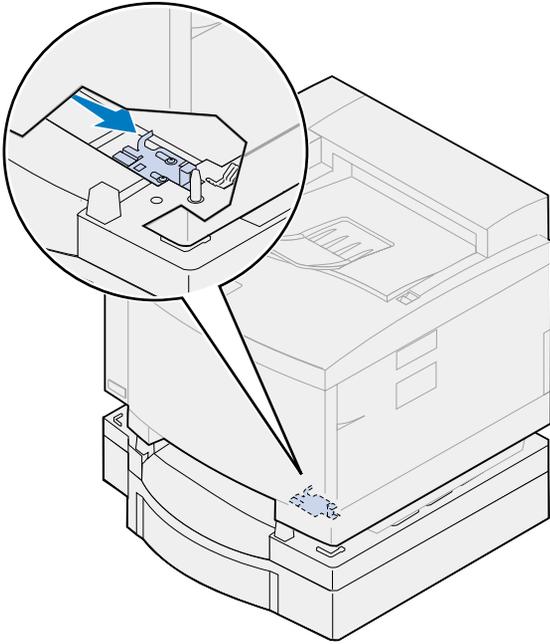
Step 4: Set up the optional drawer

1 Remove tray 1.

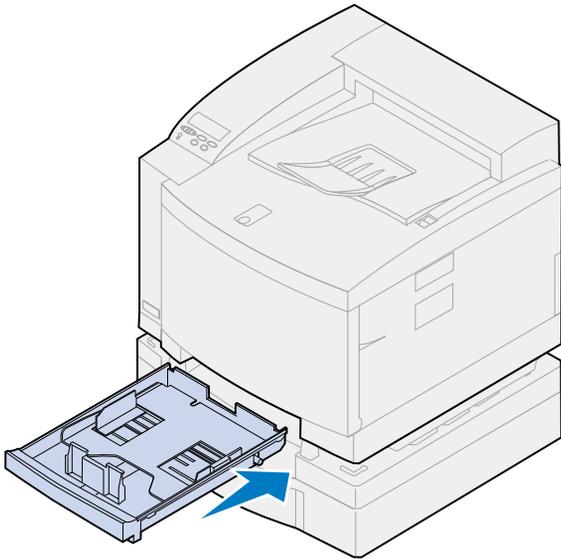


- 2 Move the drawer unit lock to the right until it locks into place.**

The lock is located between the optional drawer and printer. You must reach through the printer tray opening to move the lock.



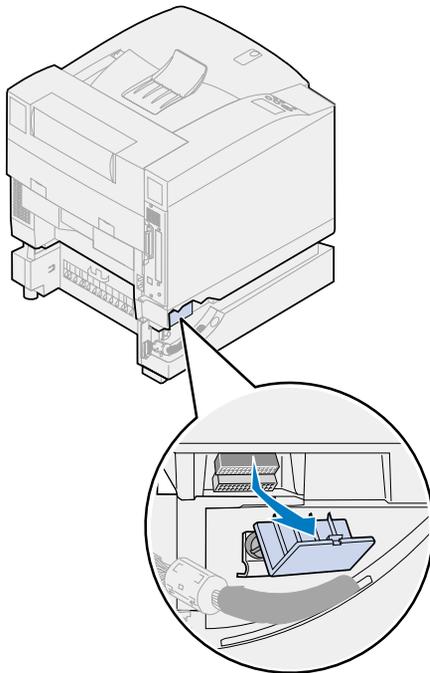
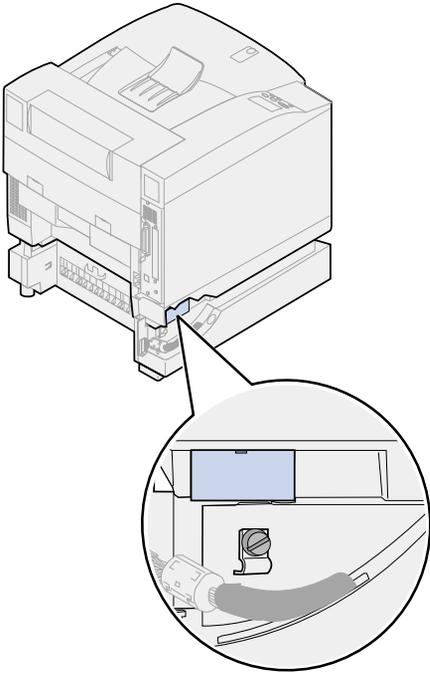
- 3 Slide in the paper tray.**



4 Remove the connector cover.

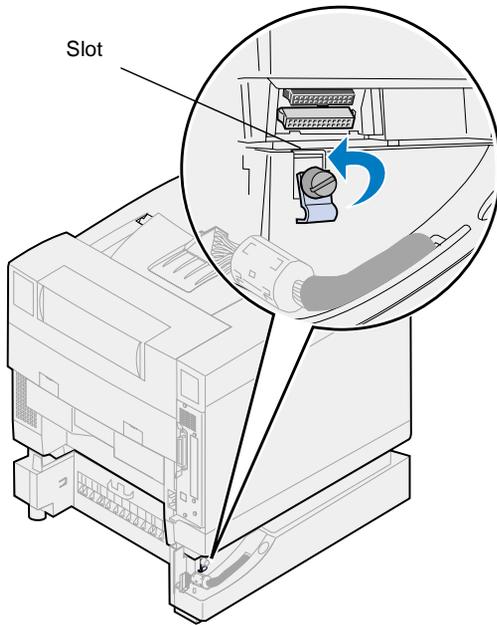
The connector cover is located as shown.

Press in and rotate the cover downward or use a small flathead screwdriver to remove the connector cover.

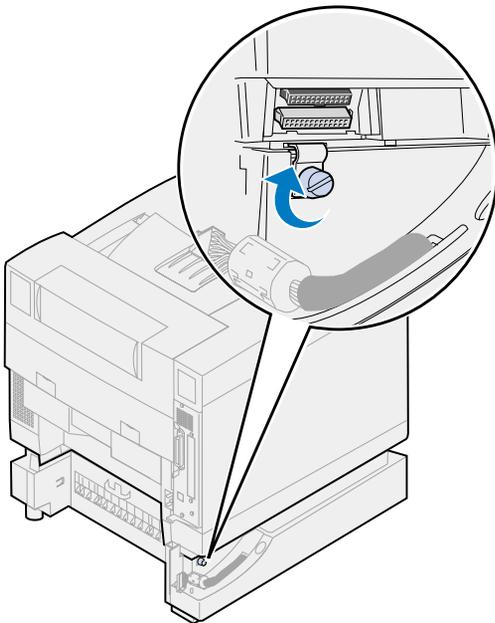


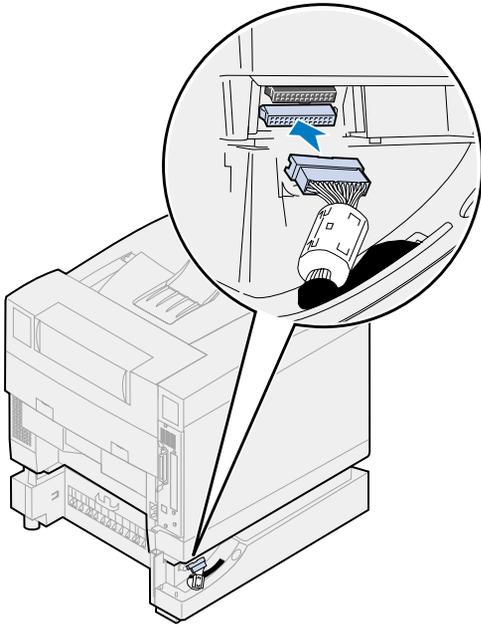
5 Make sure the locking clip thumbscrew is loose enough to rotate the locking clip.

6 Rotate the locking clip and place the top of the clip inside the slot.



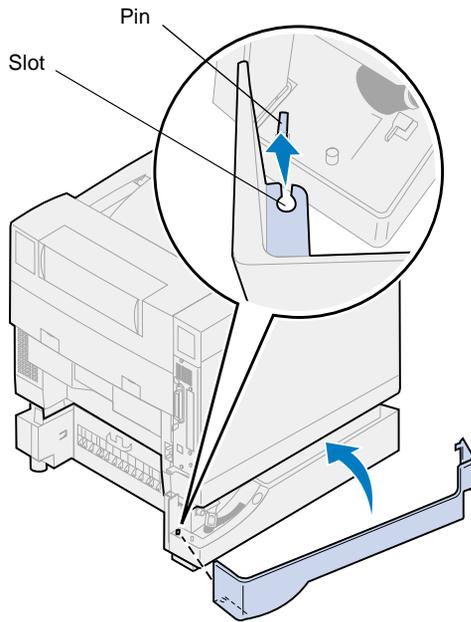
7 Tighten the locking clip thumbscrew.





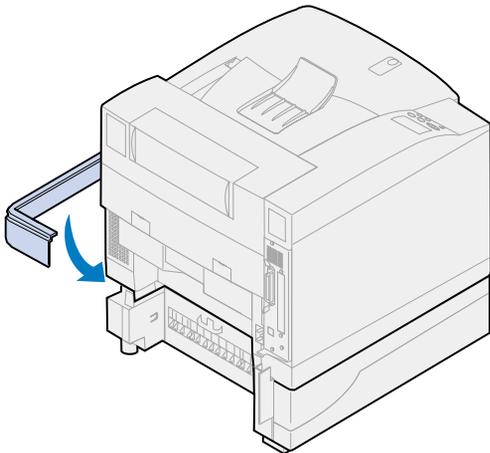
- 8** Align and attach the white drawer connector to the white printer connector.
- 9** If you have an optional duplex unit skip steps 10 and 11. Locate your next step using the table on page 21.

Note: Do not install the side access panels at this time if you have a duplex unit.



10 Install the left side access panel.

- a** Place the slot on the rear of the panel onto the pin at the rear of the printer.
- b** Rotate the panel toward the front of the printer until it *snaps* into place.



11 Install the right side access panel.

- a** Place the rear of the panel into the rear of the printer.
- b** Rotate the panel toward the front of the printer until it *snaps* into place.

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



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

If you need to...	See page...
Install the memory or network options	23
Install the optional duplex unit	43
Install supplies	49

Step 5: 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 (INA)
- Tri-Port adapter
- Parallel port interface card
- USB port interface card

Removing the system board

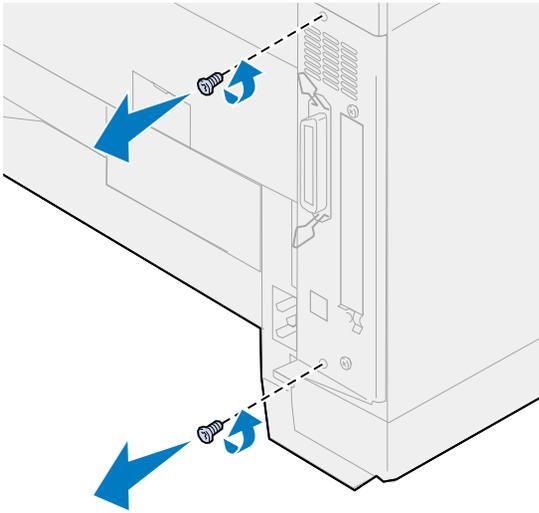
You must remove the system board to install memory cards, a hard disk, print server, tri-port adapter, or a parallel port interface card.

You need a number 2 Phillips screwdriver to remove the system board.

Note: Place the printer in a convenient location to remove the system board for installing internal options.

CAUTION! This printer weighs 39 kg (86 lb) and requires two people to lift it. Anytime you move or lift the printer make sure you have someone help you. Whenever you lift the printer use the hand-holds located on the sides.

CAUTION! If you are installing internal options after initial printer setup, turn the printer off and unplug the power cord. If you have any other devices connected to the printer, turn them off as well and unplug any cables going to the printer.

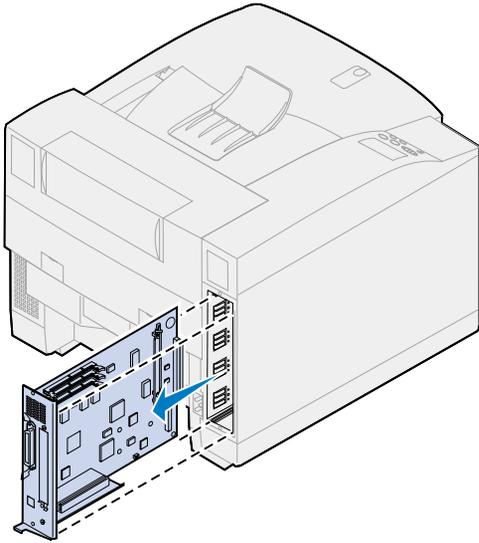


- 1 Remove the two screws on the system board cover as shown.**

Put the screws in a safe place so they are available when you reinstall the system board.

Note: You must replace the system board before you can operate the printer.

2 Pull the system board out of the printer.

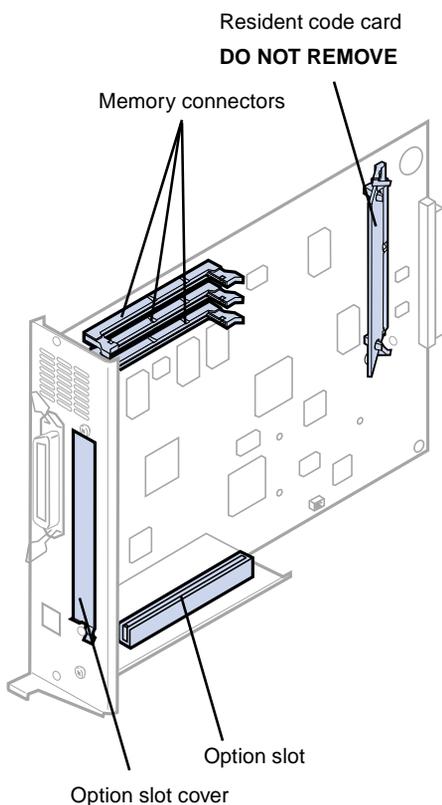


Use the table to locate your next step.

If you need to...	See page...
Install a memory card	26
Install a flash memory card	29
Install a hard disk	33
Install a printer option card	37
Install the system board	39

Installing memory cards

Note: Memory options designed for other Lexmark printers may not work with your printer. For more information, refer to the Lexmark C720 online information.



Note: Your printer may not have a resident code card.

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 connectors in your printer. The maximum amount of usable memory is 384MB. Use SDRAM DIMM memory cards that meet the following criteria:

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

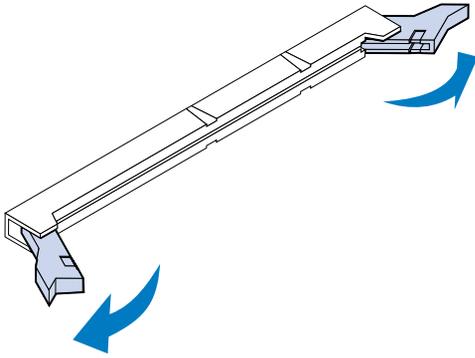
If you need to remove a memory card, refer to the Lexmark C720 online information.

To install optional memory:

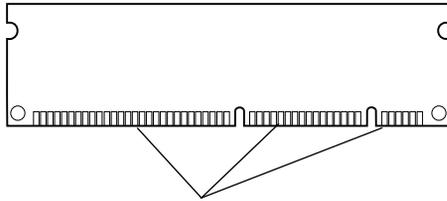
- 1** Complete the steps in “Removing the system board” on page 23 if the system board is still installed.
- 2** Locate the memory connectors on the system board.

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

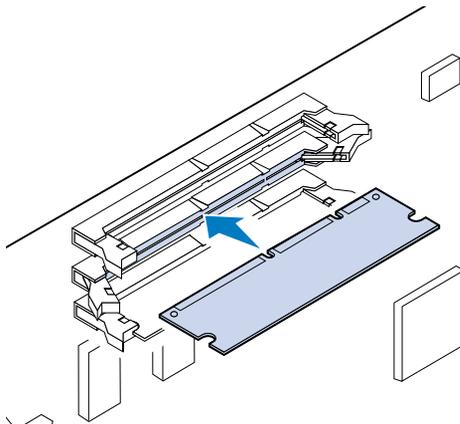
You cannot operate the printer with more than one flash memory card installed.



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



Connection points

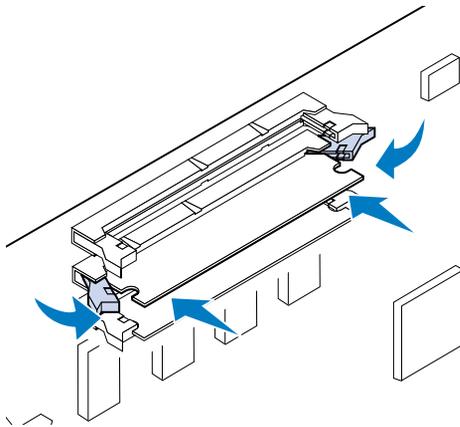


3 Open the latches on both ends of the connector socket you are going to use.

4 Unpack the memory card.

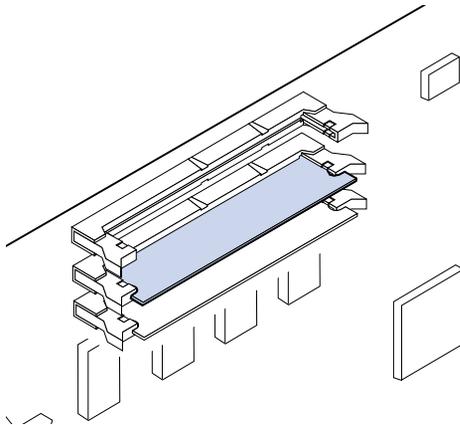
Unpack each memory card separately just before installing it. Avoid touching connection points along the edge of card. Save the packaging.

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.



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 to locate your next step.

If you need to...	See page...
Install a flash memory card	29
Install a hard disk	33
Install a printer option card	37
Install the system board	39

Flash memory option

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

Note: You cannot operate the printer with more than one flash memory card installed.

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

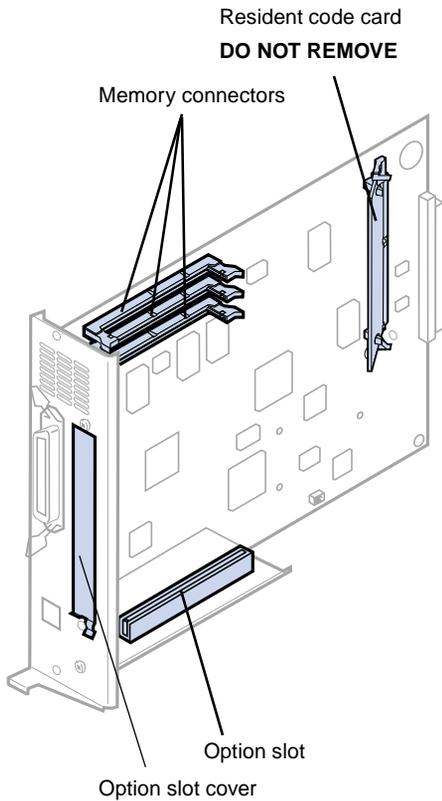
Refer to the *Technical Reference* for more details about using your flash memory option.

Installing a flash memory card

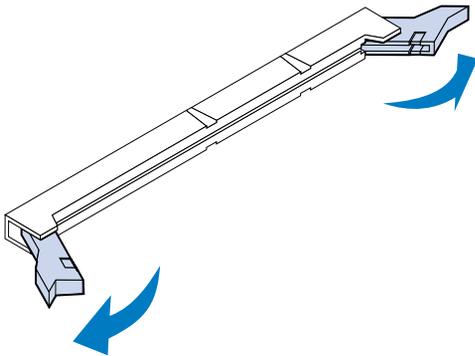
If you need to remove a flash memory card, refer to the Lexmark C720 online information.

- 1** Complete the steps in “Removing the system board” on page 23 if the system board is still installed.

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.



Note: Your printer may not have a resident code card.



2 Locate the memory connectors on the system board.

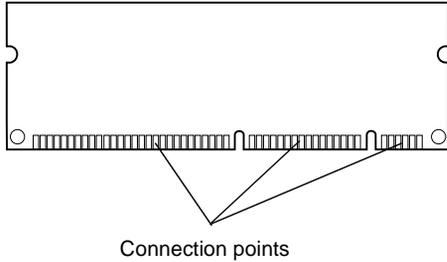
Each connector can support either a printer memory card or a flash memory card.

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 cannot operate the printer with more than one flash memory card installed.

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

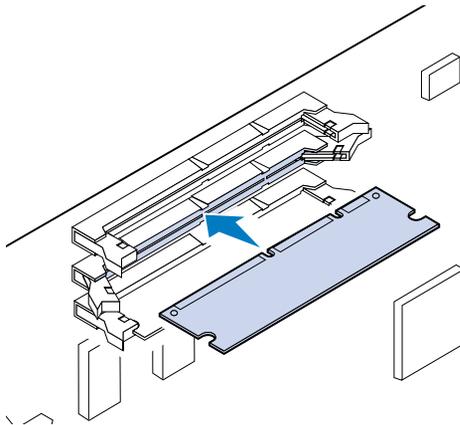


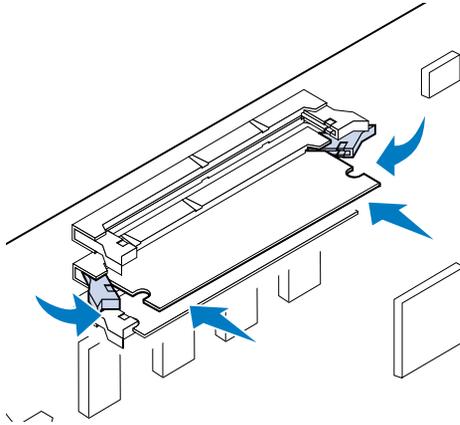
4 Unpack the flash memory card.

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.

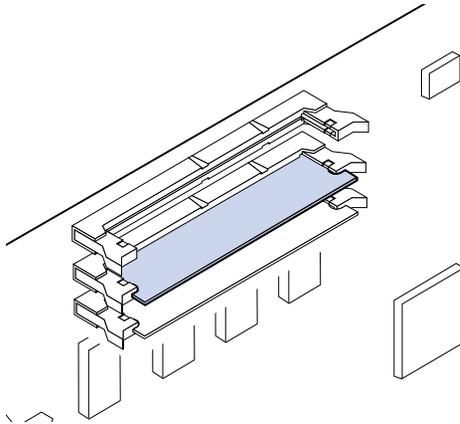
5 Hold the flash memory card with the connection points pointing toward the system board as shown.





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.



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

Use the table to locate your next step.

If you need to...	See page...
Install a hard disk	33
Install a printer option card	37
Install the system board	39

Installing a hard disk

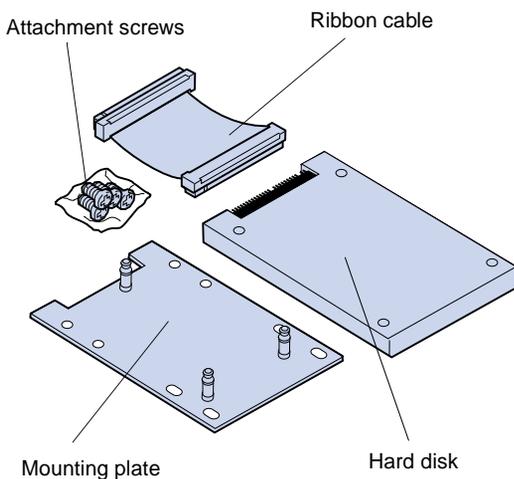
You can purchase a hard disk option from Lexmark. You must assemble the hard disk option and attach it to the system board.

If you use a third-party hard disk, it must meet the following criteria:

- 2.5-inch platter
- ATA-2 (IDE) interface
- Maximum thickness of 13 mm (0.51 in.)
- 3.2GB minimum hard disk capacity
- 10GB maximum hard disk capacity

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

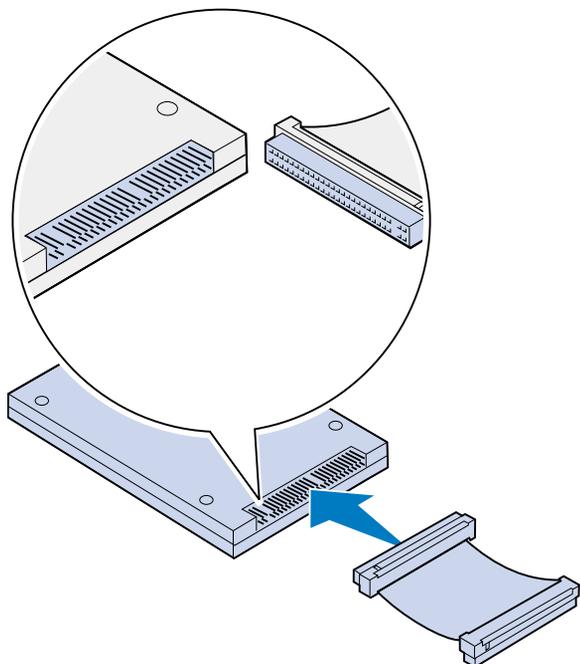
Warning! System board electrical components are easily damaged by static electricity. Touch something metal before you touch any system board electronic components or connectors.



1 Complete the steps in “Removing the system board” on page 23 if the system board is still installed.

Place the system board on a flat, level, and stable surface.

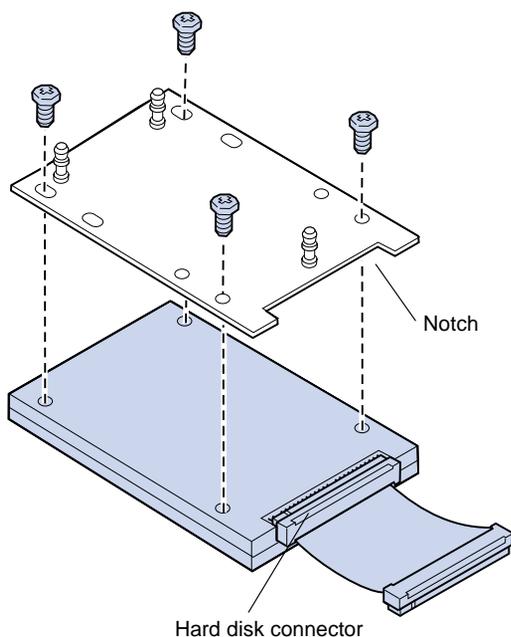
2 Remove the mounting plate, hard disk, ribbon cable, and attachment screws from the package.



- 3** Align the ribbon cable connector to the connector pins on the hard disk.

The connector ends on the ribbon cable slightly differ from each other. The connector end that has pin holes not drilled is the connector that attaches to the hard disk.

- 4** Push the cable connector onto the hard disk.

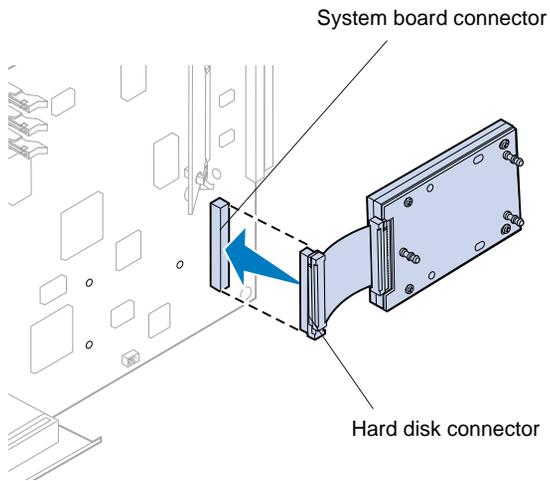


- 5** Align the screw holes in the hard disk with the holes on the mounting plate.

Make sure the hard disk connector and notch on mounting plate are aligned as shown.

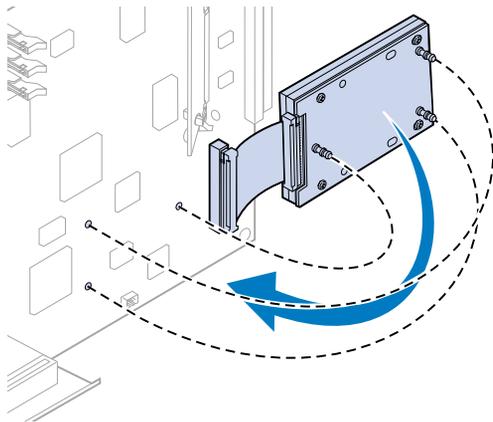
- 6** Insert the four screws into the holes on the mounting plate.

- 7** Gently tighten the screws to secure the hard disk to the mounting plate.



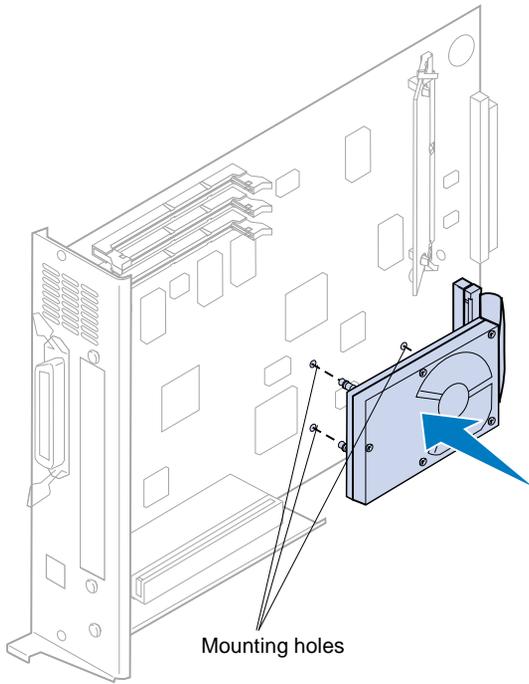
- 8** Align the connector on the ribbon cable with the connector pins on the system board.
- 9** Press the hard disk cable connector onto the system board connector.

Note: If the holes on the mounting plate do not align with the holes on the system board, the mounting plate has been incorrectly installed on the hard disk. Refer to step 5 on page 34 for proper mounting plate installation.



- 10** Rotate the hard disk and mounting plate as shown to align the three posts on the mounting plate with the holes on the system board.

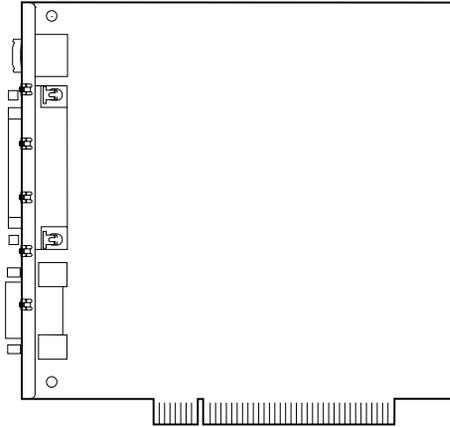
- 11** Press the mounting plate posts into the three holes on the system board until they *snap* into place.



Use the table to locate your next step.

If you need to...	See page...
Install a printer option card	37
Install the system board	39

Installing printer option cards



You can install any of the following printer option cards in your printer:

- Print server
- Tri-Port adapter
- Parallel port interface card
- USB interface card

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 LAN options:

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

The tri-Port adapter provides connectors for the following:

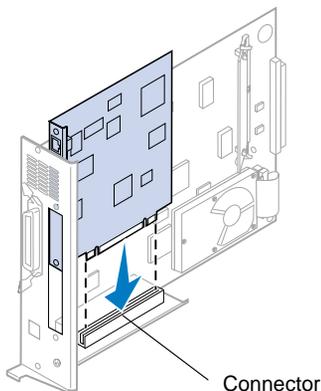
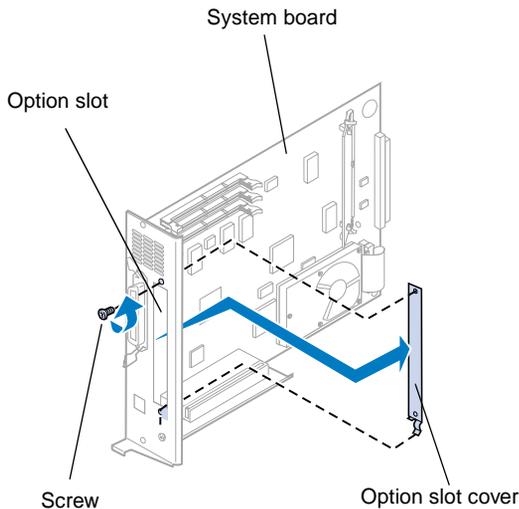
- Serial interface (RS-232C or RS-422)
- LocalTalk network
- An infrared adapter

The parallel port interface card 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 interface card or adapter for more information.

Your system board has one option slot. The option slot supports network, tri-port, parallel port, USB, and fax modem printer option cards.

The instructions on page 38 explain how to install a printer option card.

Warning! Printer option cards are easily damaged by static electricity. Touch something metal before you touch a printer option card.

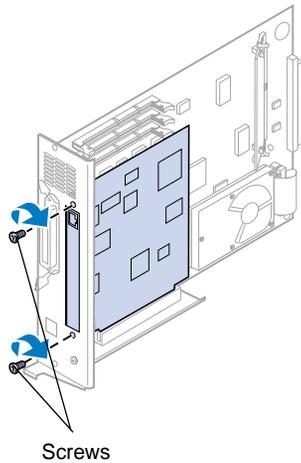


You need a number 2 Phillips screwdriver to install a printer option card.

To remove a printer option card first, refer to the Lexmark C720 online information.

- 1 Complete the steps for “Removing the system board” on page 23 if the system board is still installed.**
- 2 Remove the screw on the top end of the option slot.**
Save the screw. You may need it to secure the printer option card to the connector bracket.
- 3 Remove the option slot cover.**
Save the option slot cover so you can reinstall it if you remove the printer option card.
- 4 Unpack the printer option card.**
Save the packing materials.

- 5 Align the printer option card connector with the connector on the system board.**
- 6 Push the printer option card firmly into the connector until it is seated on the system board.**
The two connectors should fit snugly together.



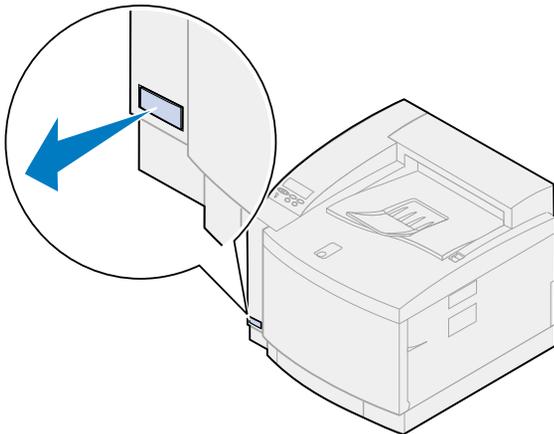
- 7** Insert the screw you saved in step 2 (or the extra screws shipped with the printer option card) through the holes at each end of the option slot and into the printer option card.
- 8** Gently tighten the screws to secure the printer option card.

Installing the rear cover and system board

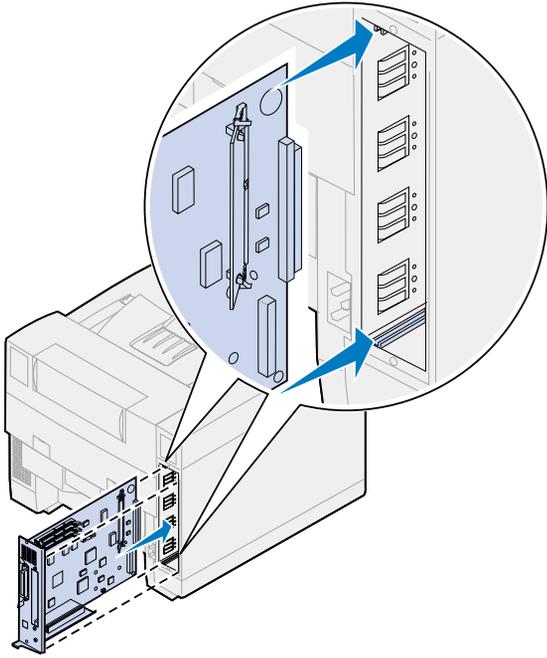
After you have installed your memory and printer option cards, complete the following steps to install the rear cover and system board.

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

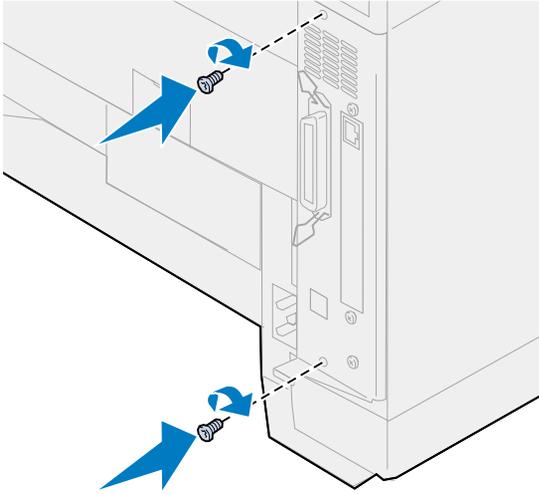
- 1** Make sure the printer is turned off.



Note: You must replace the system board before you can operate the printer.



- 2** Align the system board with the top and bottom slots inside the back of the printer as shown.
- 3** Insert the system board into the printer.



Use the table to locate your next step.

4 Align the two screws in the rear cover with the holes on the printer frame.

5 Tighten the two screws to secure the rear cover and system board to the printer.

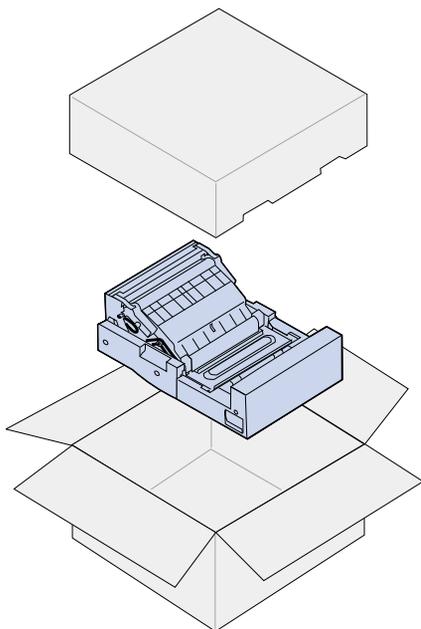
If you installed internal options after initial printer setup, connect the printer cables and power cord, and turn the printer on.

If you need to...	See page...
Install the optional duplex unit	43
Continue with printer setup	49

Step 6: Install the optional duplex unit

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

CAUTION! If you are installing the optional duplex unit after initial printer setup, turn the printer off before installing the duplex unit.



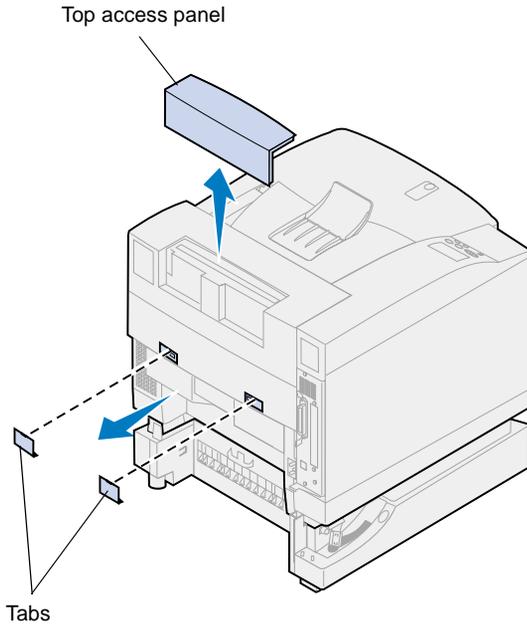
Your printer supports an optional duplex unit that provides two-sided color or monochrome printing. To install a duplex unit, you must have previously installed the optional drawer (see page 15 for instructions).

To install the duplex unit:

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

Open all the doors and covers and remove any tape or packing material from inside the duplex unit.

Note: If you are installing the duplex unit after initial printer setup, you must have previously installed an optional drawer.

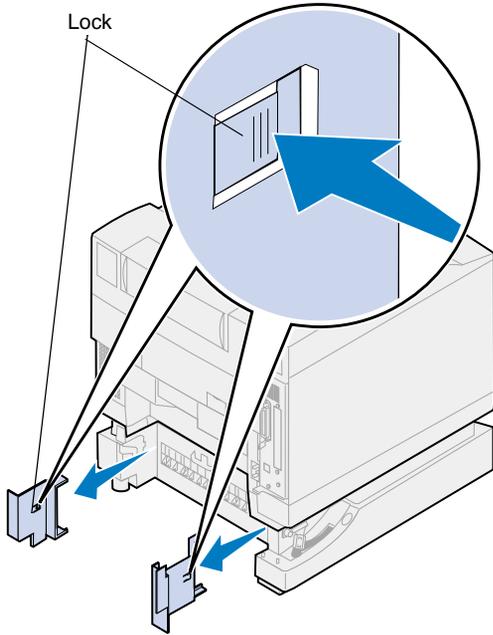


3 Remove the top access panel.

Push in on the bottom edge of the top access panel. Then lift upward to remove it.

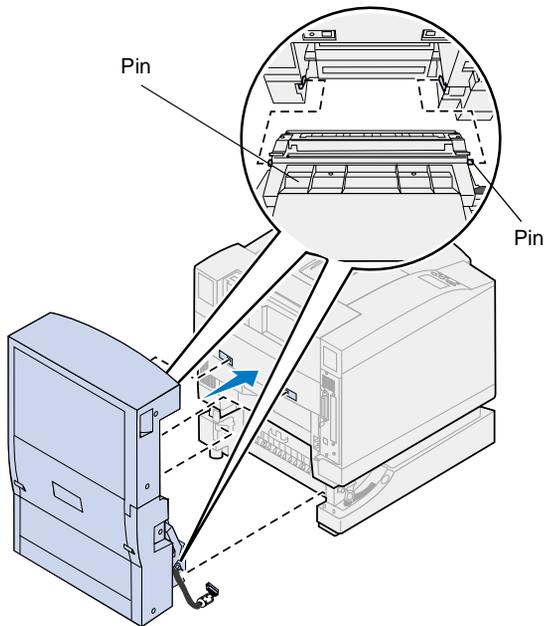
4 Pry outward on the rear tab covers and remove them.

You may need to use a small flathead screwdriver to remove the rear tab covers.



5 Press in on the left cover lock and slide the cover off.

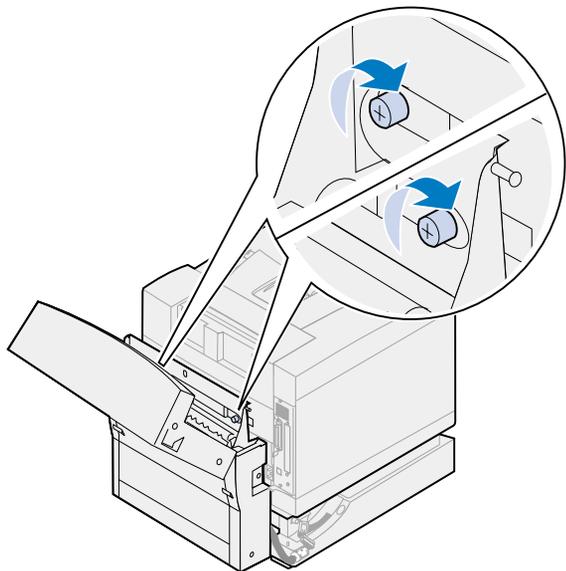
6 Press in on the right cover lock and slide the cover off.



7 Insert the lower left and right pins on the duplex unit into the slots of the optional drawer as shown.

8 Lift the duplex unit and place the tabs into the holes of the printer.

9 Lower the duplex unit into place.

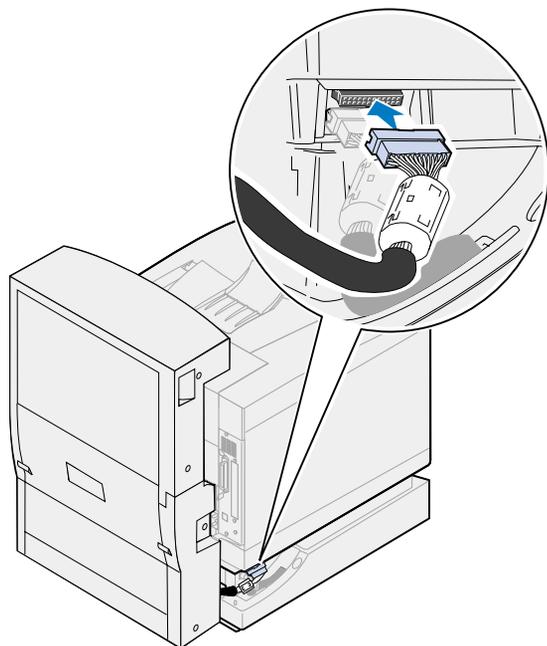


10 Open the duplex unit top cover.

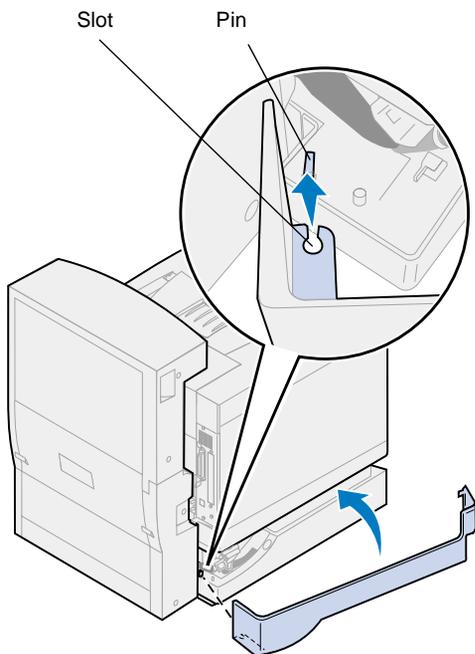
11 Align the thumbscrews on the duplex unit with the holes on the printer.

12 Tighten the thumbscrews to secure the duplex unit to the printer.

13 Close the duplex unit top cover.

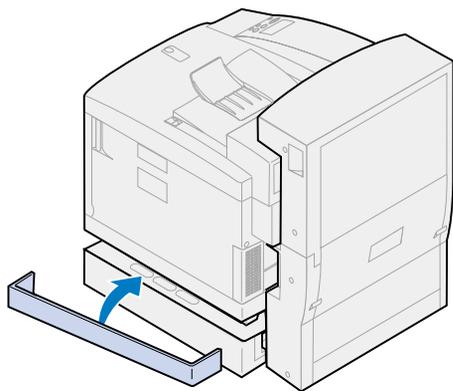


14 Attach the black duplex unit connector to the black printer connector.



15 Install the left side access panel.

- a Place the slot on the rear of the panel onto the pin as shown.
- b Rotate the panel toward the front of the printer until it *snaps* into place.



16 Install the right side access panel.

- a Place the rear of the panel into the rear of the printer.
- b Rotate the panel toward the front of the printer until it *snaps* into place.

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

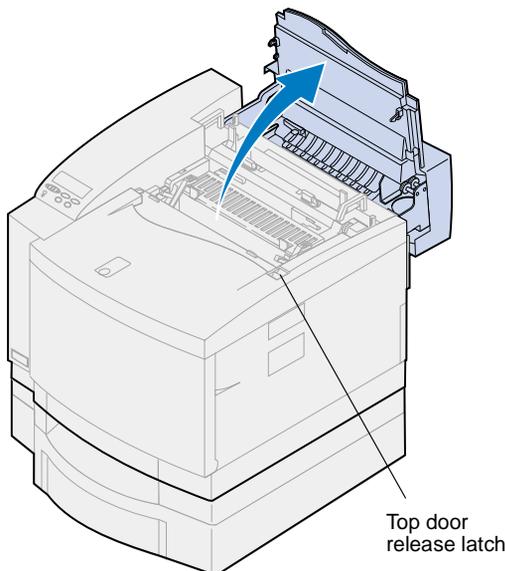
17 Continue with “Install supplies” on page 49.

Step 7: Install supplies

Installing the oil bottle and cleaning roll

Warning! It takes approximately 30 minutes for the oil to reach the fuser after initial oil bottle installation. Make sure the oil bottle has been installed for at least 30 minutes before printing.

Note: If a duplex unit is installed, open the duplex unit top door also.



Your printer ships with an oil bottle and cleaning roll that you must install to operate your printer. Oil lubricates the fuser and the cleaning roll removes excess toner and other contaminants from the fuser.

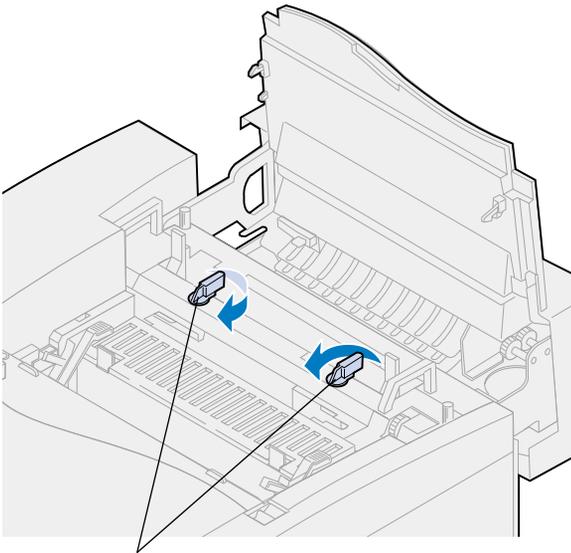
Without oil, your fuser does not operate properly. Insufficient lubrication causes paper jams and reduces the life of your fuser. You must wait 30 minutes after installing the oil bottle before printing.

To install the oil bottle and cleaning roll:

- 1 Slide the top door release latch toward the front of the printer.
- 2 Lift the top door.

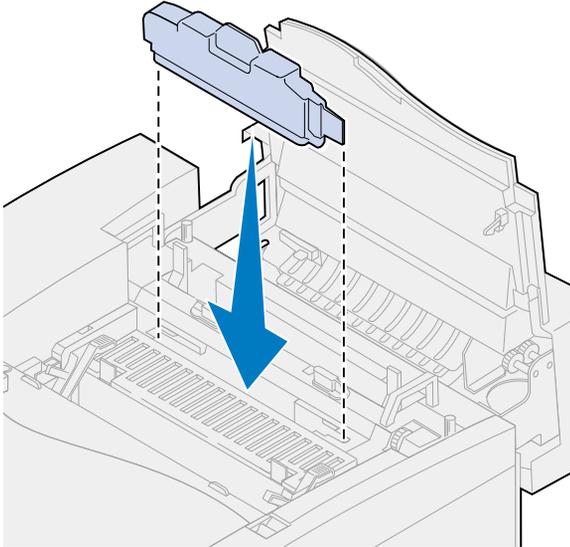
Warning! Once the oil bottle has been installed, do not tilt or move the printer. Oil can drip and cause damage. For information on removing the oil bottle, refer to the Lexmark C720 online information.

- 3 Turn the left and right green oil bottle locking levers to unlock the oil bottle and cleaning roll slots.**
- 4 Remove the oil bottle from the packaging material.**



Oil bottle locking levers

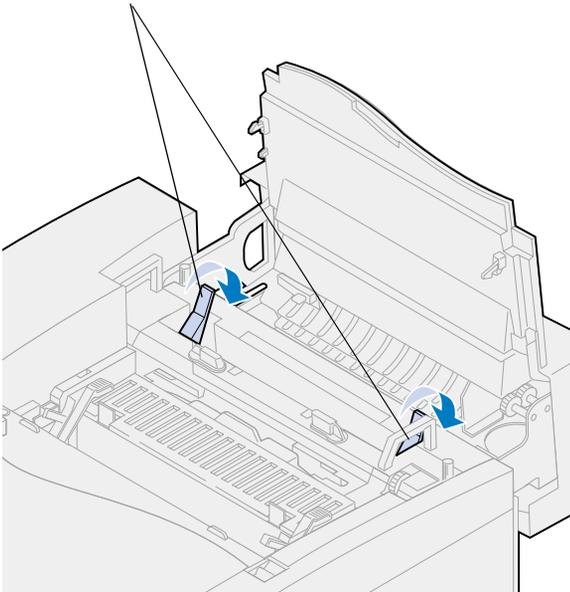
Important Oil may soil clothing.



5 Align the oil bottle with the slots in the printer.

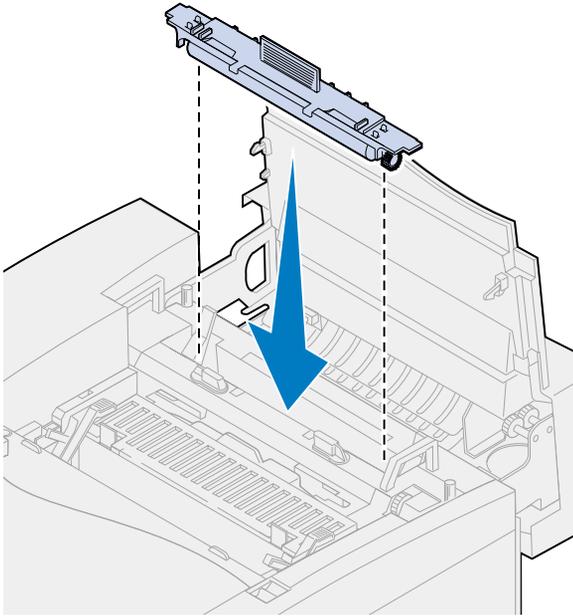
6 Lower the oil bottle into the printer.

Roller release levers

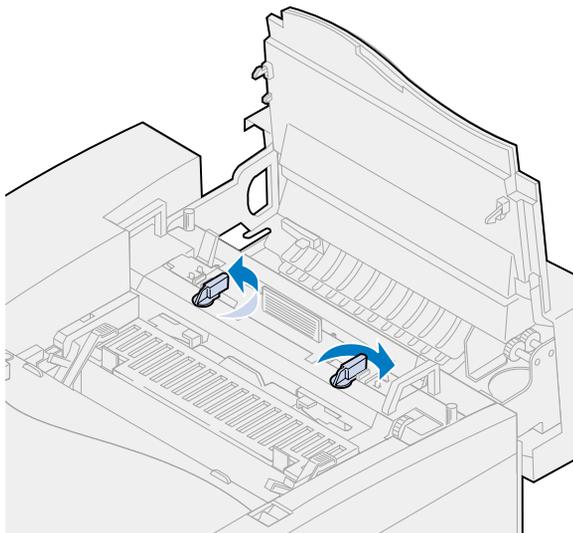


7 Move the green fuser roller release levers toward the rear of the printer.

It may require some force to move the levers.



- 8** Remove the cleaning roll from the packing material.
- 9** Remove any packing material or tape from the cleaning roll.
- 10** Align the cleaning roll with the slot in the printer.
- 11** Lower the cleaning roll into the printer.



- 12** Turn the left and right green oil bottle locking levers to lock the oil bottle and cleaning roll in the printer.

Installing the photo developer cartridge

Your printer ships with a photo developer cartridge that must be installed for your printer to operate. The photo developer cartridge creates and carries the image from the toner cartridges to the transfer drum.

To install the photo developer cartridge:

- 1 Lift the left and right green photo developer locking levers.**

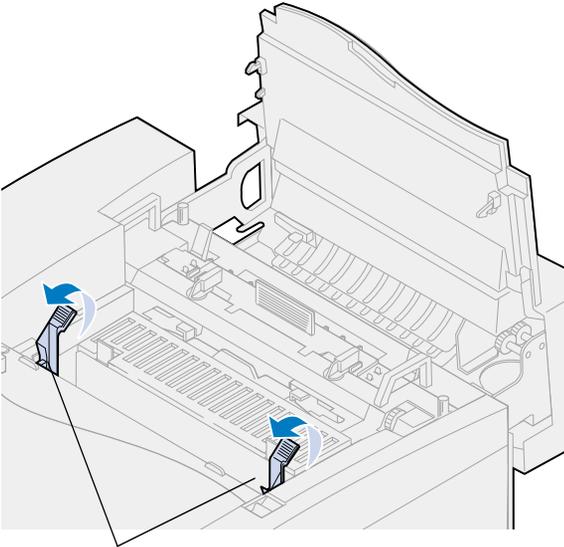
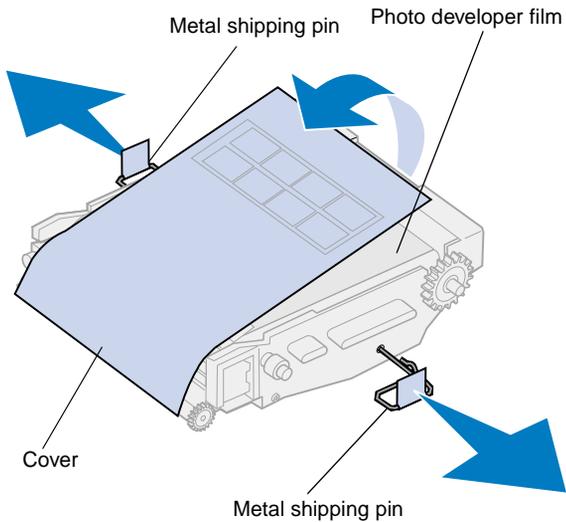


Photo developer locking levers

Warning! Do not touch the glossy green film in the photo developer cartridge. Touching the photo developer film damages it and reduces print quality.



2 Remove the photo developer cartridge from the packing material.

3 Pull the two metal shipping pins away from the photo developer cartridge to remove them.

The metal shipping pins have orange tape on them.

4 Remove the cover, and any packing material from the photo developer cartridge.

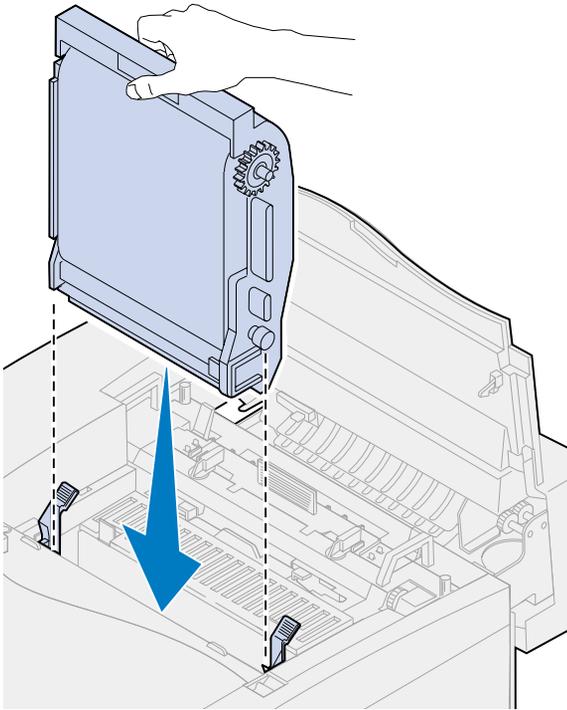
Do not leave the cartridge exposed to light for more than 10 minutes. If the cartridge will be exposed to light for longer than 10 minutes, place it in the box or cover it.

Make sure you do not scratch the surface of the photo developer film. Scratches or tears greatly affect print quality.

5 Discard the metal shipping pins and cover.

6 Align the photo developer cartridge with the slots in the green locking levers.

7 Lower the photo developer cartridge into the printer until it is firmly seated.



8 Rotate the green photo developer locking levers down.

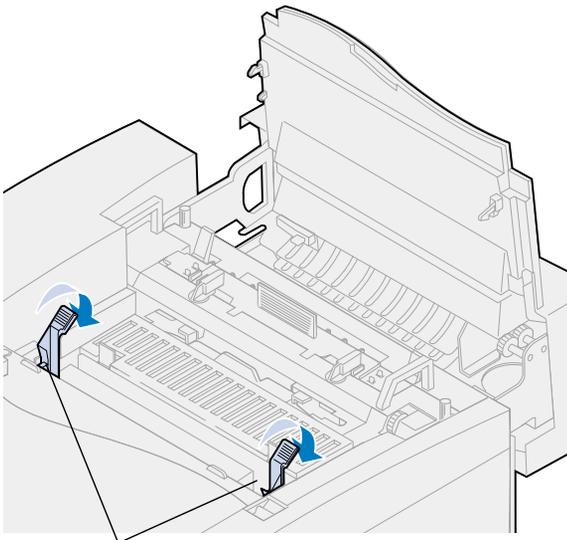
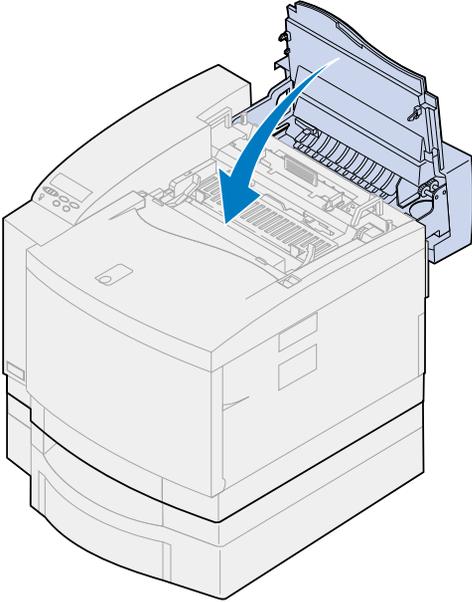


Photo developer locking levers

9 Close the top door.

If a duplex unit is installed, close the duplex unit top door also.



Installing the toner cartridges

Your printer ships with four color-coded toner cartridges. These cartridges must be placed inside the front of the printer. Each cartridge has its own color-coded position inside the printer.

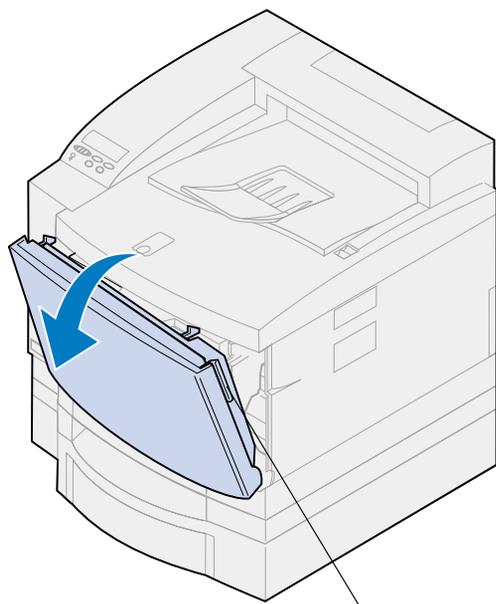
To install the four toner cartridges:

- 1 Pull the front door release latch toward the front of the printer.**
- 2 Open the front door.**
- 3 Remove any shipping tape and packing material from the front of the printer.**

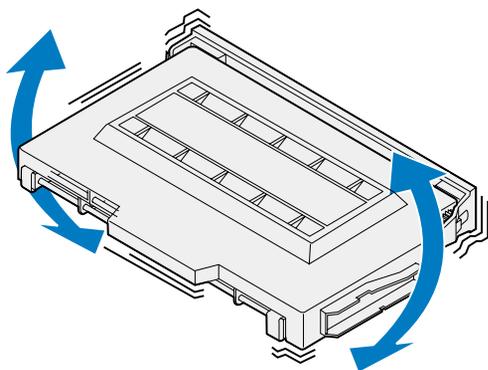
Check inside the toner cartridge compartment for packing material.

- 4 Remove a toner cartridge from the packing material.**

You can install the cartridges in any order. However, it may be easier to install them in the following order from bottom to top: cyan, magenta, yellow, and black.

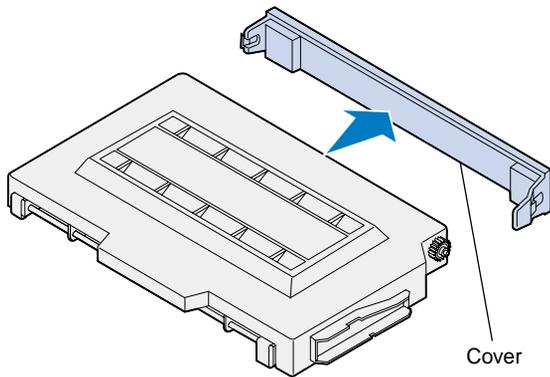


Front door release latch

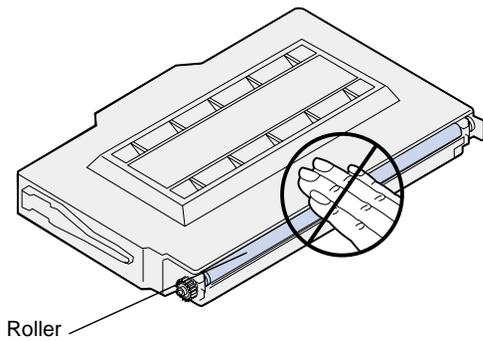


- 5 Gently shake the toner cartridge to distribute the toner evenly.**

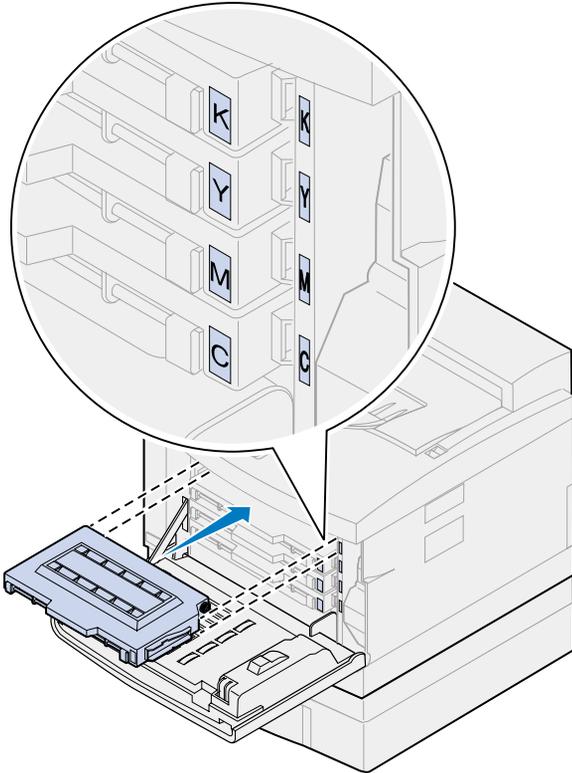
6 Remove the cover and any other packing material or tape from the toner cartridge.



Warning! Do not touch the toner roller surface under the cover. Touching the surface of the toner roller may damage it.



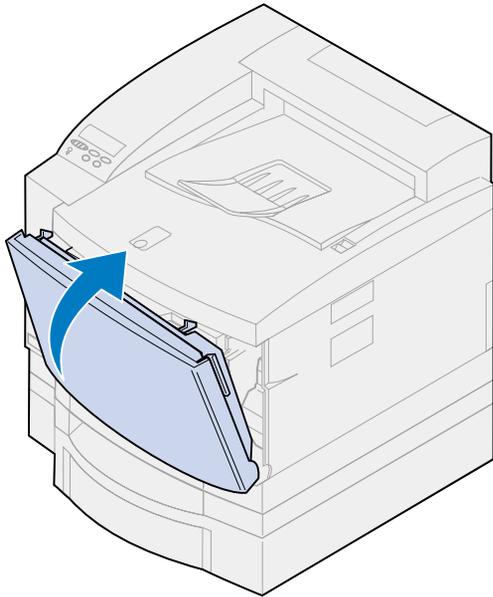
Note: Each cartridge is keyed to fit a specific location inside the printer. If the cartridge does not fit, make sure you are placing the cartridge in the correct location.



7 Align the toner cartridge with the appropriate slot in the front of the printer.

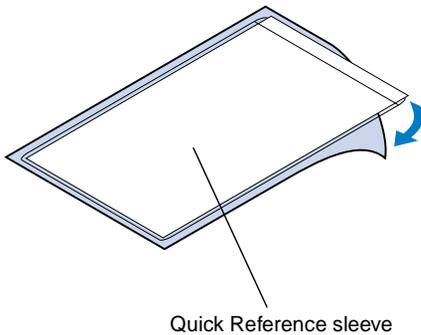
The letter C, M, Y, or K on the toner cartridge corresponds with the letter inside the printer.

8 Slide the new toner cartridge into the printer.



- 9 Repeat steps 4 through 8 to install the remaining cartridges.
- 10 Close the front door.

Attach the Quick Reference Card



- 1 Find a convenient location for the Quick Reference card.
- 2 Remove the protective paper from the back of the Quick Reference sleeve.
- 3 Firmly press the adhesive-backed sleeve onto the spot you have chosen.

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

Step 8: Attach the cables

You can attach your printer to a LAN by:

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

Your printer standard parallel port requires an IEEE-1284 compliant parallel cable. We recommend Lexmark part number 1329605 (10 ft) or 1427498 (20 ft). If you use something other than an IEEE-compliant cable, you may not be able to access all of your printer 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 interface card you installed in the printer.

CAUTION! When connecting a cable to the printer from another powered component such as a computer or external fax modem, make sure you turn off and unplug the component power cord before connecting any cables to the printer.

- Connecting the printer directly to the LAN:
 - Use an external print server such as Lexmark's MarkNet Pro.
 - Use a print server, such as the MarkNet N2000 Series server described on page 37.
 - Use the optional tri-port interface card to connect to a LocalTalk network.

For more information about your particular interface card, refer to the documentation that came with it.

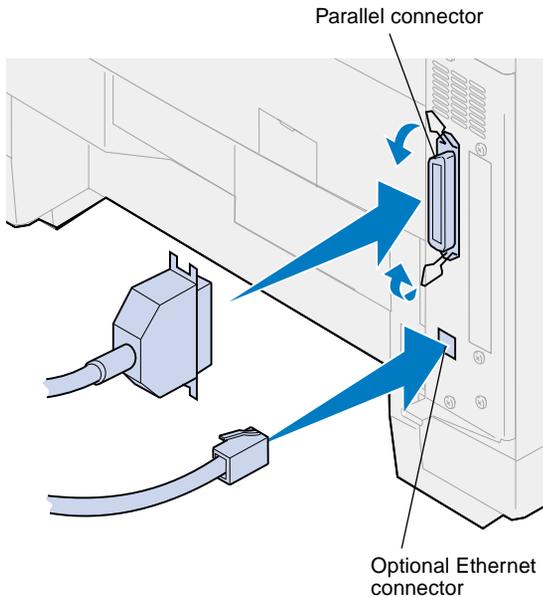
Note: Connect only one network cable even if the internal print server has more than one network port.

To attach a cable to your printer:

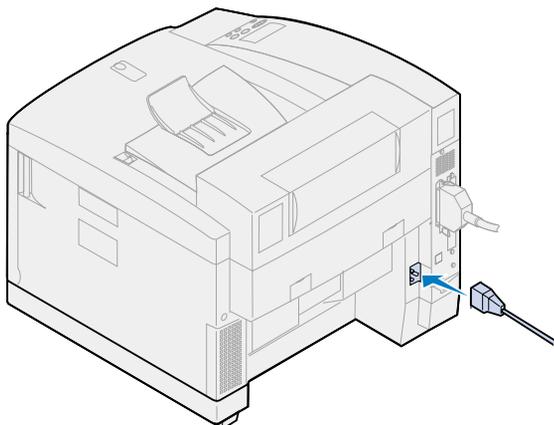
- 1 At the right rear of printer, locate the parallel or the optional port connector.**

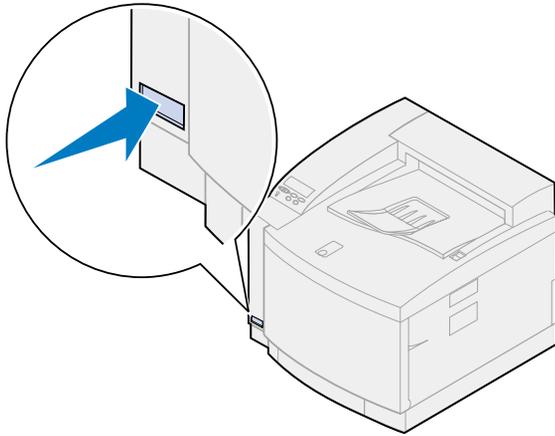
Depending on the options you have installed, additional parallel, serial, USB, or network connectors may be available.

- 2 Connect the appropriate cable.**



- 3 Plug the power cord into rear of the printer and into a properly grounded electrical outlet.**





4 Turn the printer on.

5 Continue with “Load the paper tray” on page 65.

Step 9: Load the paper tray

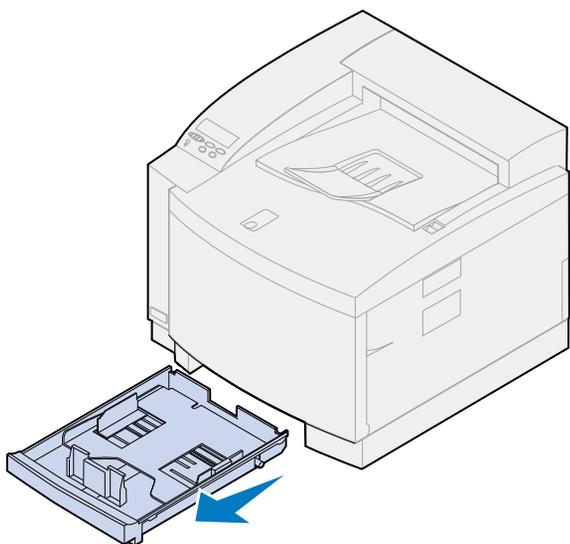
Your printer has one standard 250-sheet tray—tray 1—that holds A4, letter, and executive size paper. An optional 250-sheet legal tray is also available. You can also load transparencies, envelopes, and card stock in tray 1. For details about the types of media your printer supports, refer to the Lexmark C720 online information.

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 77 for more information.

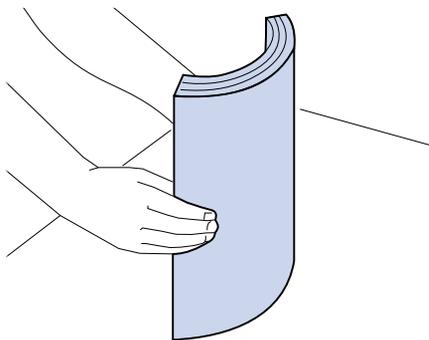
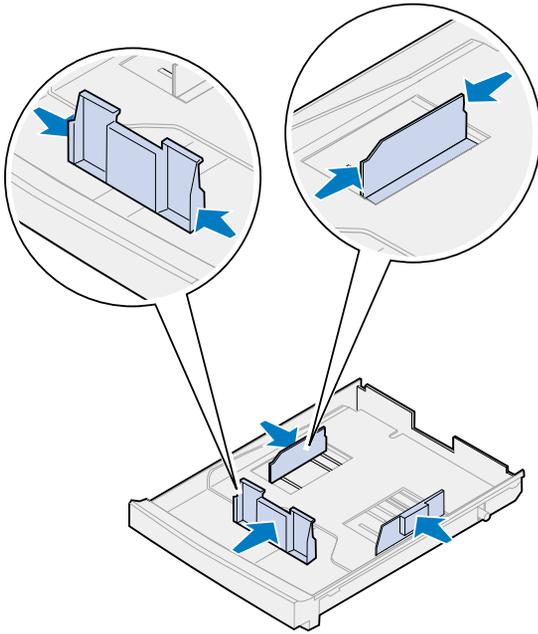
If you installed an optional paper drawer, the instructions are the same for loading paper in that tray. However, load *only* paper in tray 2.

To load the tray:

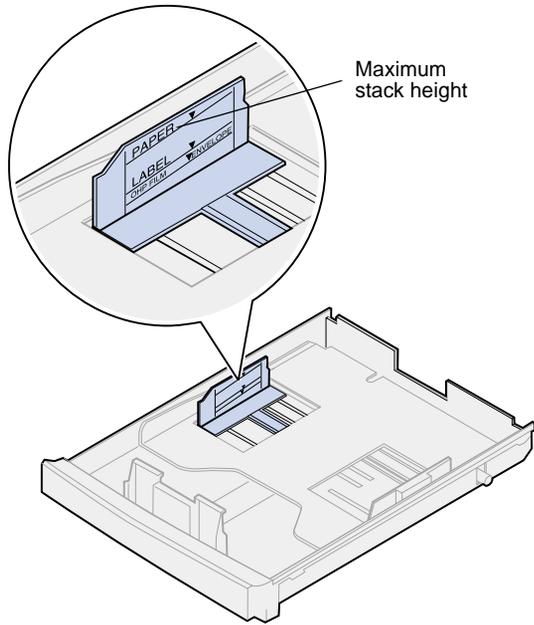
- 1 Pull the paper tray completely out of the printer.**
- 2 Set the paper tray on a flat surface.**



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 locks on the end of the front paper guide.
 - 4** Slide the front paper guide to align with the position of the paper size you are loading.
 - 5** Release the snap locks.
- The position of the front paper guide tells the printer the size of the paper in the tray. If the front paper guide is in the wrong position, you may experience paper feeding problems or incorrect page formatting.
- 6** Squeeze the snap locks on the end of the left side paper guide.
 - 7** Slide the left side paper guide to align with the position of the paper size you are loading.
 - 8** Release the snap locks.
 - 9** Before loading the paper, flex the sheets back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

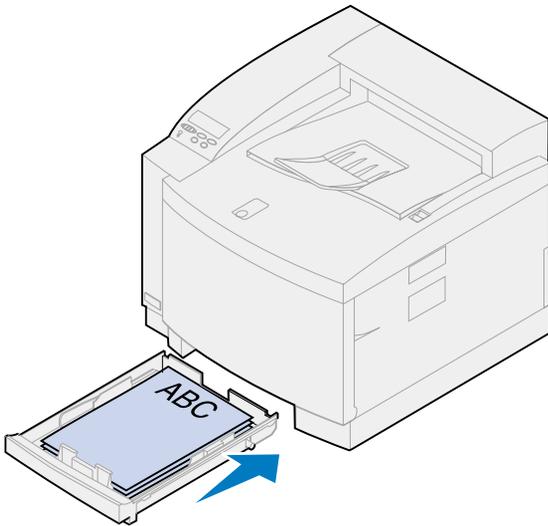


10 Load the paper with the recommended print side face up.

Do not exceed the maximum stack height indicated on the label inside the paper tray.

If you're loading preprinted letterhead, place the top of the page at the rear of the tray.

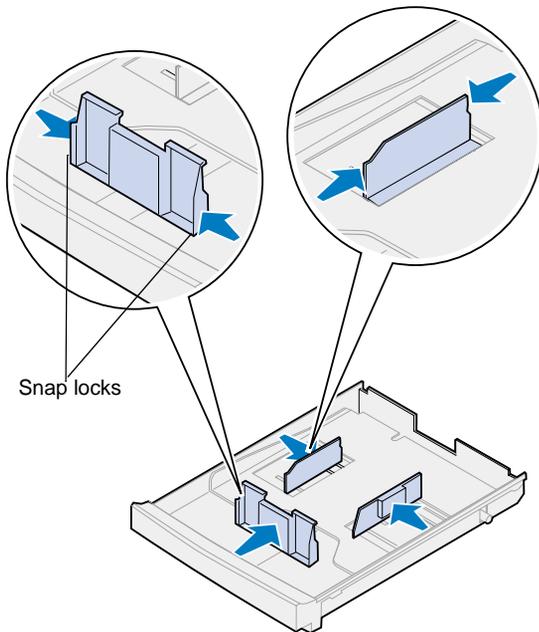
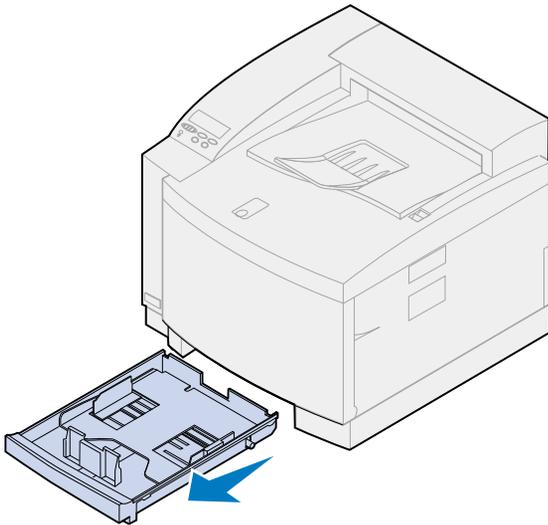
11 Slide the paper tray into the printer.



Loading envelopes

Load envelopes *only* in tray 1. To load the tray:

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



- 3** Squeeze the snap locks on the end of the front paper guide.
- 4** Slide the front paper guide to align with the position of the envelope size you are loading.
- 5** Release the snap locks.

The position of the front paper guide tells the printer the size of the envelope in the tray.

For some envelopes, you may have to set the envelope size through the operator panel.

If the front paper guide is in the wrong position, you may experience envelope feeding problems or incorrect formatting.

- 6** Squeeze the snap locks on the end of the left side paper guide.

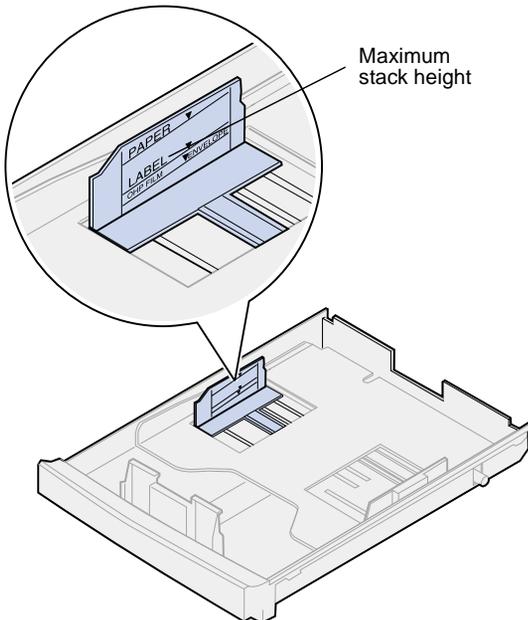
- 7** Slide the left side paper guide to align with the position of the envelope size you are loading.
- 8** Release the snap locks.
- 9** Before loading the envelopes, flex them back and forth to loosen them, and then fan them. Straighten the edges on a level surface.



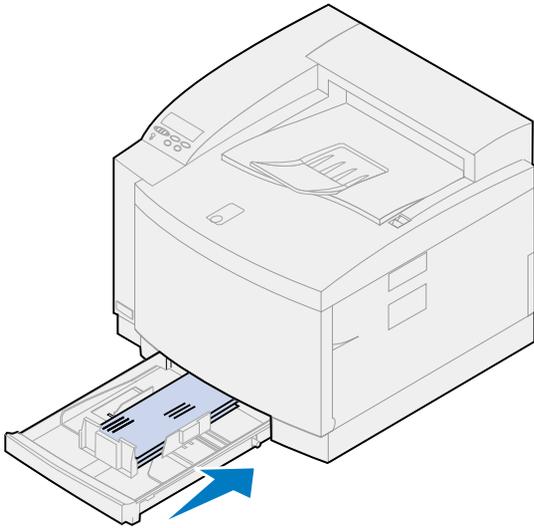
- 10** Load the envelopes with the recommended print side face up and the return address area toward the front of the printer.

Do not load stamped envelopes.

Do not exceed the maximum stack height indicated on the label inside the paper tray.



11 Slide the paper tray into the printer.

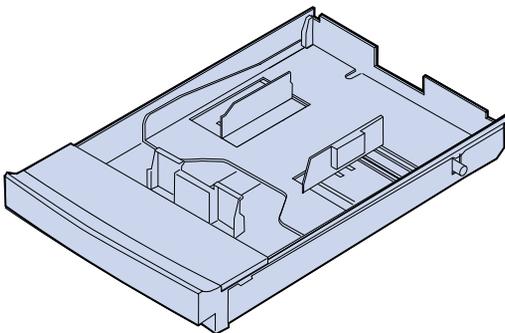


**Loading the optional
legal paper tray**

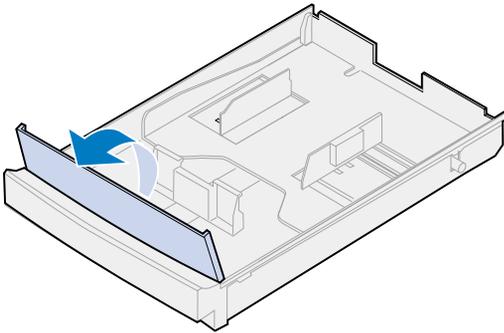
The optional legal paper tray replaces tray 1, the standard 250-sheet tray. In addition to legal size paper, you can load all the paper sizes and types supported by the standard tray 1.

To load the tray:

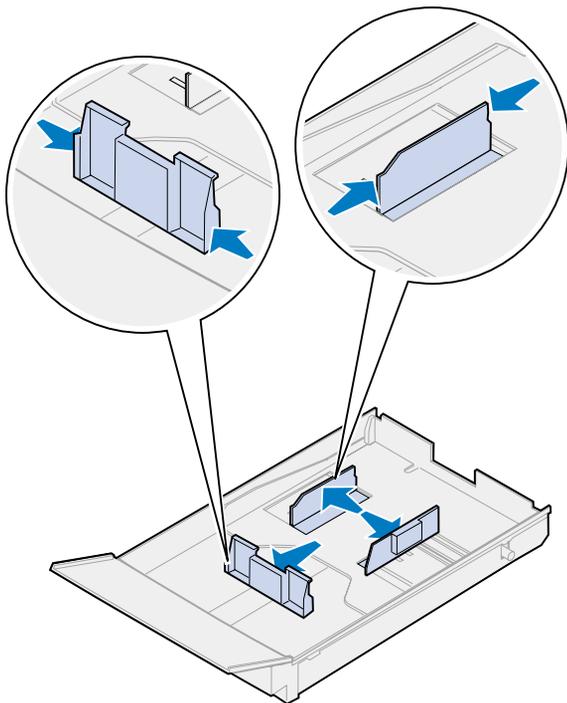
- 1** Place the legal paper tray on a flat surface.



2 Lift the front tray cover.



Note: The paper tray may already be set up for the appropriate paper size.



3 Squeeze the snap locks on the end of the front paper guide.

4 Slide the front paper guide to align with the position of the paper size you are loading.

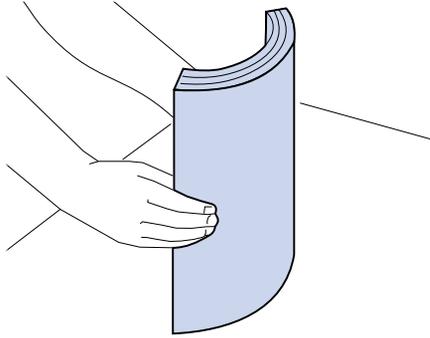
5 Release the snap locks.

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

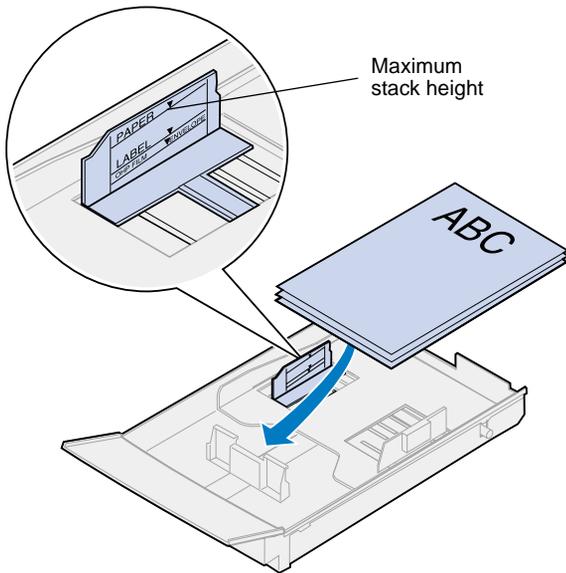
6 Squeeze the snap locks on the end of the left side paper guide.

7 Slide the left side paper guide to align with the position of the paper size you are loading.

8 Release the snap locks.



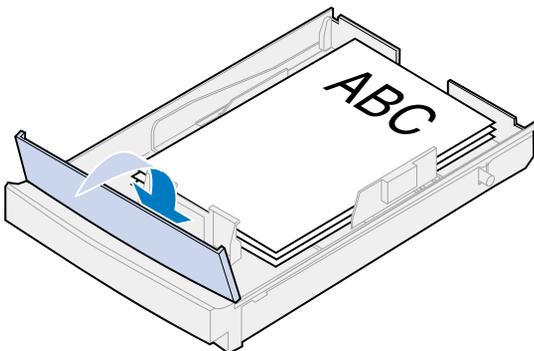
- 9** Before loading the paper, flex the sheets back and forth to loosen them, and then fan them. Straighten the edges on a level surface.



- 10** Load the paper with the recommended print side face up.

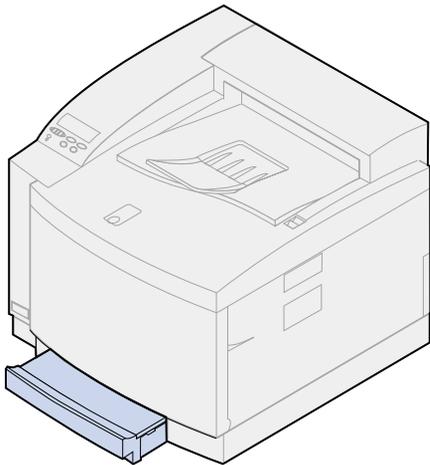
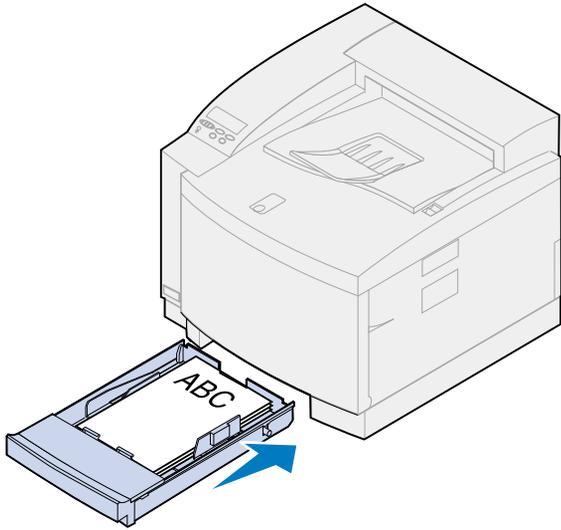
Do not exceed the maximum stack height indicated on the label inside the paper tray.

If you're loading preprinted letterhead, place the top of the page at the rear of the tray.



- 11** Lower the front tray cover.

12 Slide the paper tray into the printer.



Step 10: Verify setup

Print a menu settings page to review default printer settings and identify all of your installed options. The menu settings page also indicates whether options are operating correctly.

1 Turn the printer on.

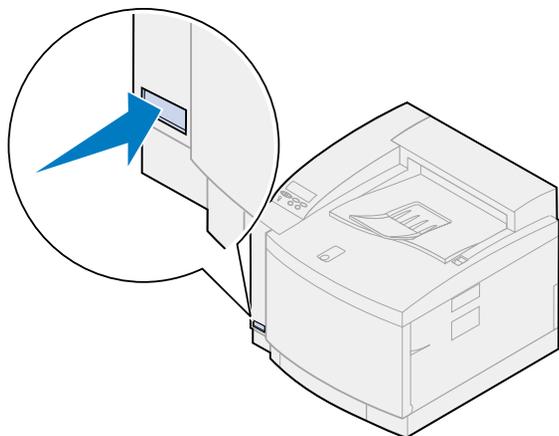
After you turn the printer on, it performs a self test and warms up. During this period, the messages **Performing Self Test** and **Warming Engine** appear on the operator panel display.

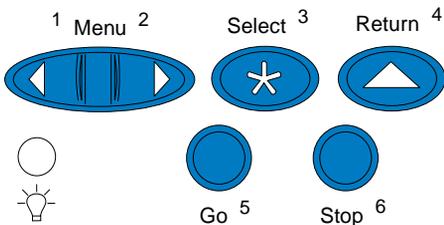
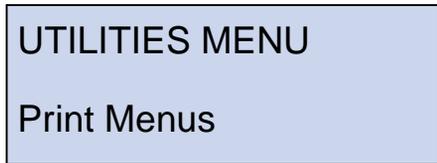
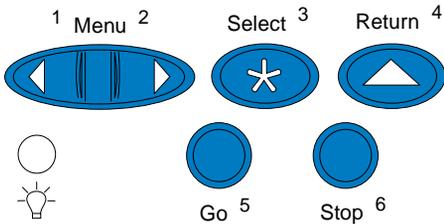
The self test and warm-up period ensure all components function and the printer is at the correct operating temperature.

If you see an error code on the operator panel display, refer to the Troubleshooting section in the Lexmark C720 online information.

After the printer completes its internal tests and warms up, the **Ready** status message appears.

For more information about using the printer operator panel, changing display languages, and changing menu settings, refer to the Lexmark C720 online information.





Note: Before printing the menu settings page, make sure the selected paper source holds A4 or letter size paper. If you use a paper type other than plain paper, you need to set the printer to the correct type. Refer to the Lexmark C720 online information for more information on paper sizes and sources.

Power Saver is set at 20 minutes (the factory default). You can set the Power Saver time to a value between 0 and 240 minutes.

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 Lexmark C720 online information for more information about modifying the Power Saver setting.

- 2 From the printer operator panel, press **Menu** or **<Menu** to enter the operator panel menus.
- 3 Continue to press and release **Menu** or **<Menu** until **UTILITIES MENU** appears on the operator panel.
- 4 Press **Select**.

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

- 5 Press **Select** again to print the menu settings page.

The message **Printing Menu Settings** appears. The printer returns to **Ready** status after the menu settings page prints.

If an error message appears on the display, refer to the Troubleshooting section on the Lexmark C720 online information for more information.

6 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.

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

For more information about the Serial Menu and changing these settings, refer to the Lexmark C720 online information.

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 tray 1 can hold different media, you can customize tray 1 Paper Type settings.

The printer uses the Paper Type setting to optimize print quality for the media you specified. For example, selecting the Transparency paper type slows the printing process to produce the best transparency possible.

The Paper Type setting also affects the printer 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 trays.

Refer to the Lexmark C720 online information 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.

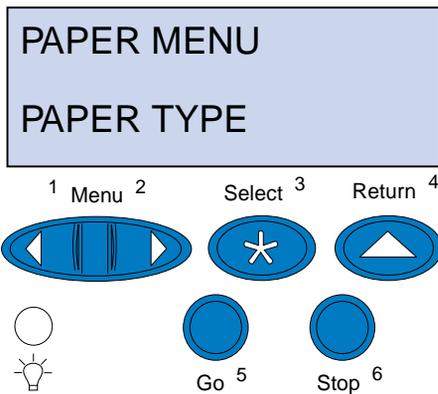
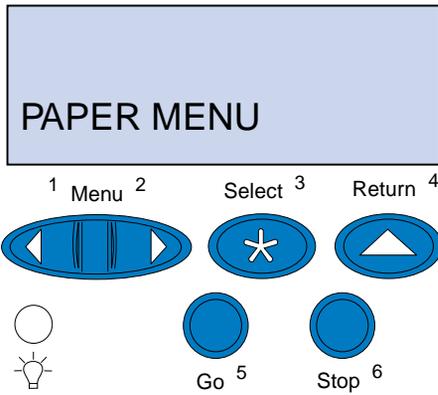
If you need to change a Paper Type setting:

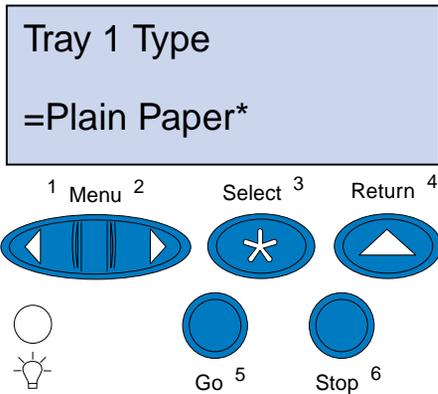
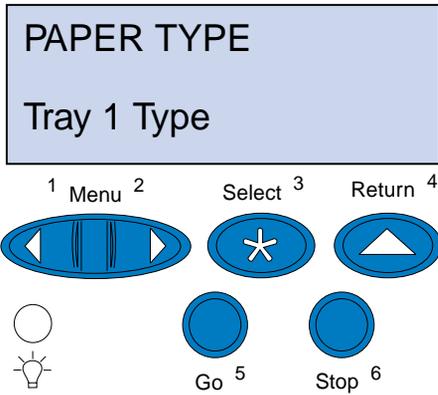
- 1 From the printer operator panel, press Menu> or <Menu to enter the menus.**

PAPER MENU appears on the second line of the display.

- 2 Press Select to open the Paper Menu.**

- 3 Press and release Menu> until PAPER TYPE appears on the second line.**





4 Press Select.

Tray 1 Type appears on the second line of the display.

5 Press Select again if you want to change the Tray 1 Type setting or press Menu> or <Menu to change to Tray 2 Type and then press Select.

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 Select again to save the type as the default for tray 1.

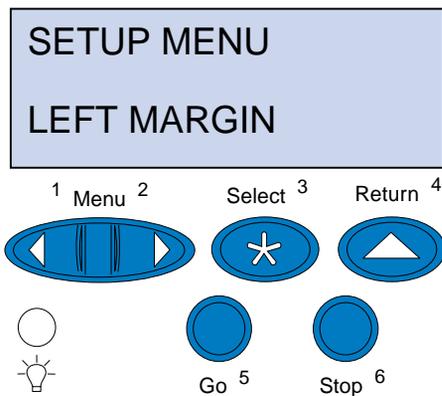
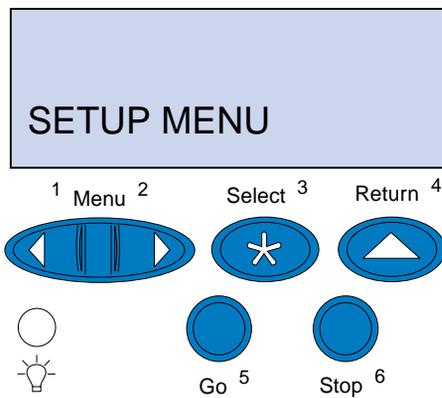
8 When you are finished changing the Paper Type settings, press Go to return the printer to the ready state.

9 If you have an optional tray or duplex unit go to “Adjusting tray 2 and duplex unit margins” on page 80, otherwise continue with “Load MarkVision and drivers” on page 89.

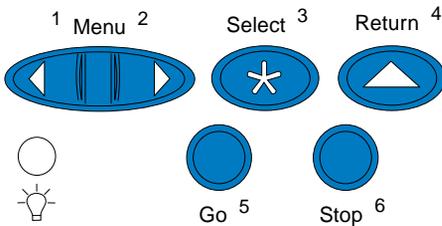
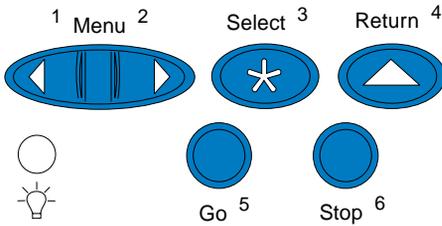
Adjusting tray 2 and duplex unit margins

Adjusting the tray 2 and duplex unit margins makes sure your margins are consistent when tray linking is enabled and when duplex printing is selected. The left margin of your optional tray or duplex unit may not match the printed left margin of tray 1. If you have an optional drawer or duplex unit, use the following procedures to verify and adjust your left margins:

Determining the correct tray 2 margin



- 1** Make sure you have plain paper loaded in tray 1 and tray 2.
- 2** From the printer operator panel, press Menu> or <Menu until SETUP MENU appears on the second line of the display.
- 3** Press Select to open the Setup Menu.
- 4** Press Menu> or <Menu until LEFT MARGIN appears on the second line of the display.
- 5** Press Select to open the Left Margin menu.



6 Press Menu> or <Menu until Tray 2 appears on the second line of the display.

7 Press Select to open the Left Margin value.

Tray 2 appears on the first line and the current default value appears on the second line of the display.

8 Press Select to print the two alignment pages.

Printing Alignment Page appears on the display.

One page prints from tray 1 and the other from tray 2.

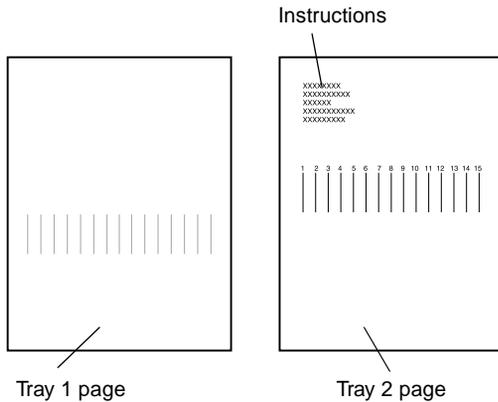
The numerical value with (*) printed on the tray 2 page is the current default value.

Adjusting the tray 2 margin

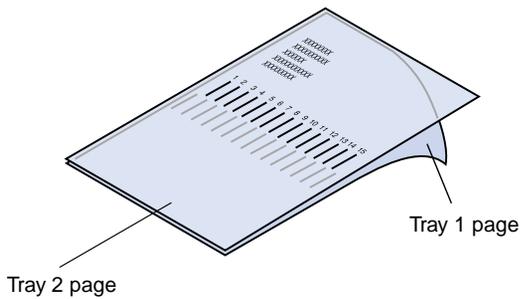
Note: After the margin adjustment pages are printed, the printer returns to **Ready**.

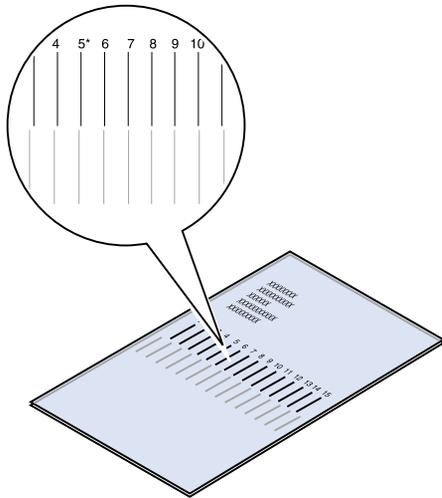
Each page has 15 vertical lines printed across the page.

The tray 2 page has adjustment instructions in the upper left corner and a numerical value above each vertical line.

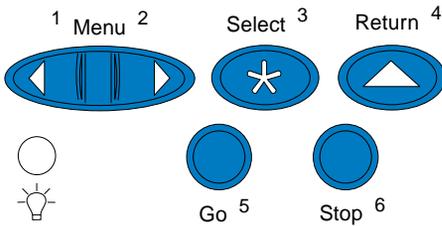


- 1 Place the page from tray 2 on top of the page from tray 1.

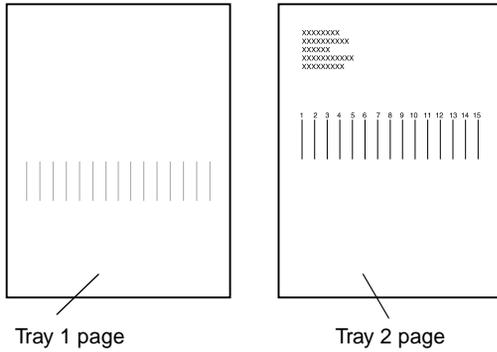




- 2** Hold the pages up toward the light and find the lines that most closely form a single vertical line.
- 3** The numerical value above the lines that most closely forms a vertical line is your new setting.

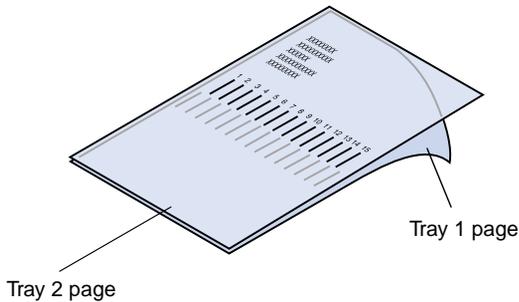


- 4** Repeat steps 1 through 7 on pages 80 through 81, then continue with step 5 on page 83.
- 5** Press <Menu or Menu> until you see the numerical value you want to select.



6 Press **Select** to save the new alignment setting and print the two alignment pages.

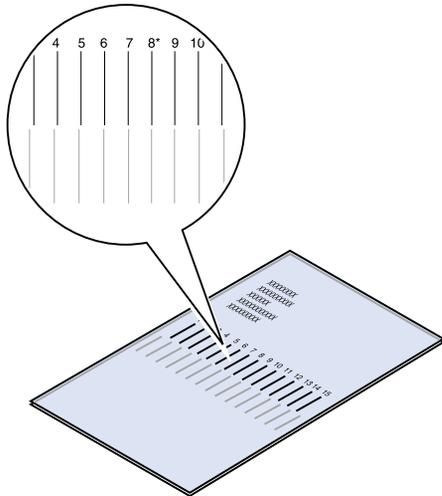
7 Place the page from tray 2 on top of the page from tray 1.



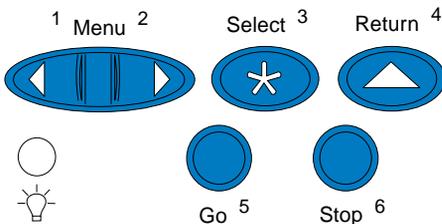
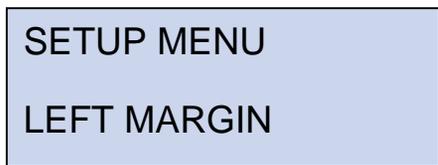
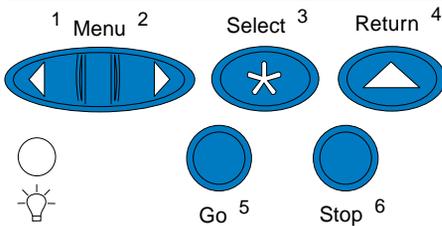
8 Hold the pages up toward the light and find the lines that most closely form a single vertical line.

If the numerical value above the matching vertical lines has an * alongside it, the margins are aligned properly.

If the lines that most closely form a single line do not have the numerical value and an *, your margin is not adjusted properly.



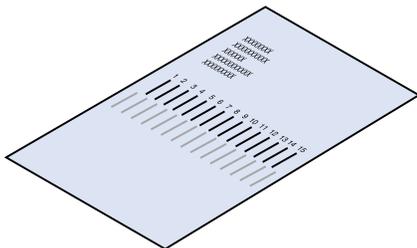
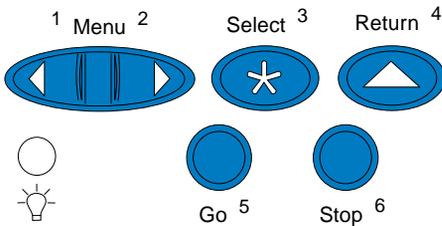
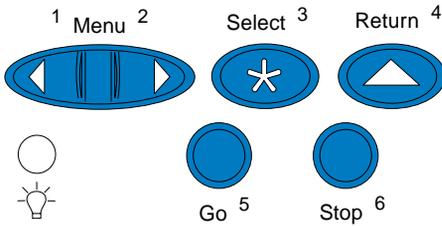
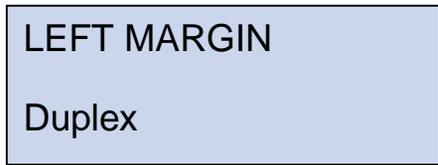
Determining the correct duplex unit margin



- 9 Repeat steps 1 through 8 if further adjustment is required.
- 10 If you have an optional duplex unit, see “Determining the correct duplex unit margin”. Otherwise continue with “Load MarkVision and drivers” on page 89.

- 1 Make sure you have plain paper loaded in tray 1.
- 2 From the printer operator panel, press Menu> or <Menu until SETUP MENU appears on the second line of the display.
- 3 Press Select to open the Setup Menu.

- 4 Press Menu> or <Menu until LEFT MARGIN appears on the second line of the display.
- 5 Press Select to open the Left Margin menu.



6 Press Menu> or <Menu until Duplex appears on the second line of the display.

7 Press Select to open the Left Margin value.

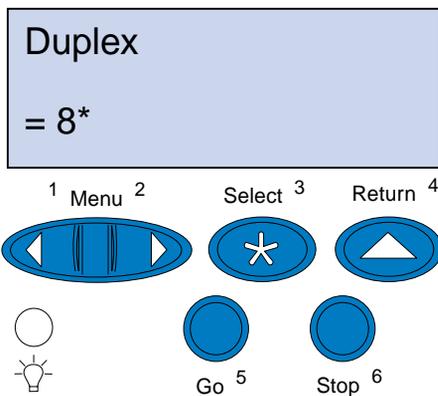
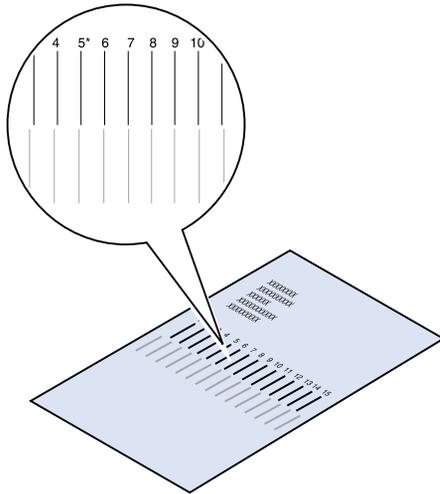
Duplex appears on the first line and the current default value appears on the second line of the display.

8 Press Select to print a duplex alignment page.

Printing Alignment Page appears on the display.

Adjusting the duplex unit margin

Note: After the margin adjustment pages are printed, the printer returns to Ready.



Each page has 15 vertical lines printed across the page.

The back page has adjustment instructions in the upper left corner.

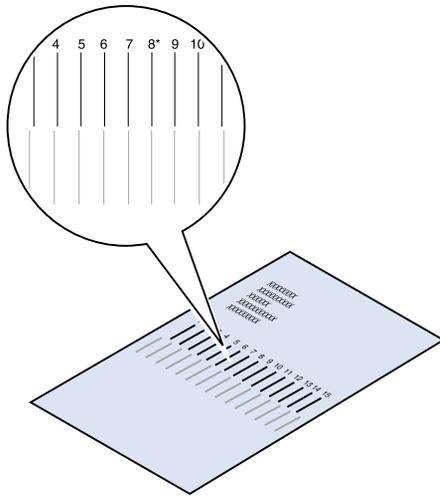
1 Hold the page up toward the light and find the lines that most closely form a single vertical line.

The numerical value above the lines that most closely forms a vertical line will be your new setting.

2 Repeat steps 1 through 7 on pages 85 through 86, then continue with step 3 on page 87.

3 Press <Menu or Menu> until you see the numerical value you want to select.

4 Press Select to save the new alignment setting and print the alignment page.



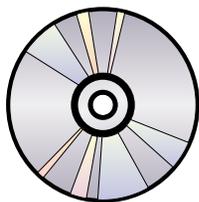
5 Hold the pages up toward the light and find the lines that most closely form a single vertical line.

If the numerical value above the matching vertical lines has an * alongside it, the margins are aligned properly.

If the lines that most closely form a single line do not have the numerical value and an *, your margin is not adjusted properly.

6 Repeat steps 1 through 5 if further adjustment is required.

Step 11: Load MarkVision and drivers



The compact disc (CD) shipped with your printer contains the printer drivers and utilities for Windows 95/98/Me, Windows NT 4.0, Windows 2000, and Macintosh. Drivers are available for both PostScript 3 and PCL emulations.

Refer to the CD Readme file 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 at www.lexmark.com.

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 Lexmark C720, 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 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 information on the *Drivers, MarkVision and Utilities* CD, or access the Lexmark C720 online information.

- 1 Launch the *Drivers, MarkVision and Utilities* CD.**

Refer to the booklet included with the CD for information about launching the CD 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.

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

2 Select the appropriate icon to:

- Install printer drivers.
- Install the MarkVision printer utility.
- Install network support.
- Install screen fonts.
- View the CD Readme file.
- Access Lexmark support phone numbers.
- 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 file for the latest information about the contents of the CD.

Congratulations!

You have successfully set up your Lexmark C720. If you need to configure your printer for use on a network, continue with Step 12: “Configure the network printer” on page 91.

Refer to the Lexmark C720 online information for complete information about all of the unique features of your Lexmark color printer.

Step 12: Configure the network printer



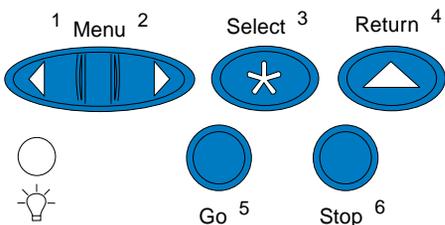
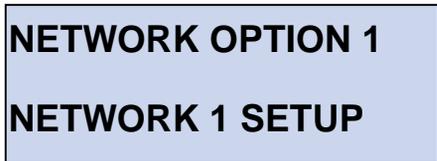
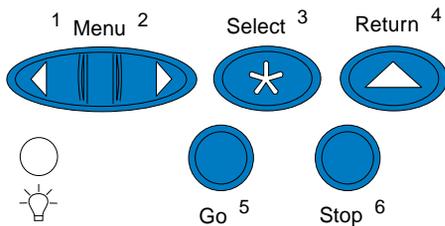
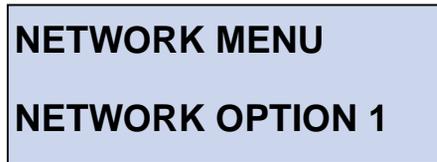
Printing a network setup page

Use the printer operator panel to print the network setup page. You will need this information during network setup.

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 a 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.



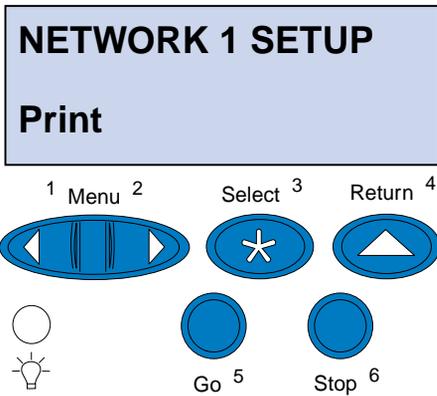
To print the network setup page:

- 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.**
- 3 Press Select.**

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

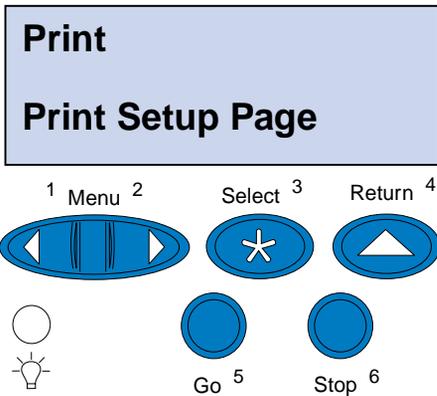
- 4 Press Select.**

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



6 Press **Select**.

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



8 Press **Select**.

Print Setup Page appears on the second line of the display.

9 Press **Select** to print the page.

Configuring and printing

If you have more than one version of the *Drivers, MarkVision and Utilities* CD, always use the latest version.

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



Use the table to the right to locate your next step.

If your network environment is...	See page...
TCP/IP	94
Novell NetWare	100
AppleTalk	101
OS/2 Warp Server	103

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 occurred, 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, MarkVision, or other Lexmark utility. Instructions for these methods follow.

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

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.

- 1 From 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 appears, use the menu buttons to change the address. (Hint: Press Select to advance to the next segment in the address. Press Menu> to increase the number by one. <Menu to decrease the number by one.)**
- 3 Press Select until the word SAVED appears briefly.**
- 4 Repeat steps 1 through 3 to Set IP Netmask and then again to Set IP Gateway.**
- 5 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 computer. You need to know the physical address of the print server to use this method.

Note: The computer 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 computer ARP table.

At a DOS prompt, type a command line containing the IP address you want to assign and the UAA. The following is an example of an IP address and UAA command line.

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

3 Set the IP address, netmask, and gateway in the print server.

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
```

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 2000 or Windows NT Server 4.0 or later *and* running TCP/IP, you can use Network Plug and Print to automate your printer setup process.

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.

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.

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. (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 95/98/Me, Windows 2000, 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 95/98/Me, Windows 2000, or Windows NT computer directly to a Lexmark printer located anywhere on the IP network. No server is required.

1 Install the TCP/IP software component on the computer.

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 computer.

- a Click Start, Settings, Printers, Add Printer.**
- b Access the Lexmark Network Printer Monitor.**
- c Select one of the following two operating systems and follow the instruction.**

Windows 95/98/Me:

- When prompted, select **Local Printer** (not Network).

Windows 2000 or Windows NT:

- When prompted, select **My Computer** (not Network Printer Server).

- d Select the correct printer driver.**

- e Select any port (LPT, COM, or FILE) for the initial setup.**

Later, you will change the port to a logical port.

- f Click Next, and 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.**

Note: You can obtain the latest Lexmark printer drivers from our Web site at www.lexmark.com.

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

b Add a printer port:

Windows 95/98/Me:

- Click **File, Properties, Details, Add Port.**

Windows 2000 or Windows NT:

- Click **File, Properties, Ports, Add Port.**

c Click Other, Lexmark Network Printer Monitor, and then click OK.

A list of available print servers appears. If your print server does not appear in the list, click Add Adapter and then follow the instructions on the screen until it appears.

d Find the IP address of your print server in the list, and then select it.

e Specify a logical port name to associate with the printer, and then click OK.

f Verify the logical port name you assigned to the printer now shows in the Printer to the following port section.

g Click OK.

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 at 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 automatically create all the necessary NetWare objects (print queue objects, print server objects, and printer objects).

Do the following from a Windows 2000 or Windows NT computer running Novell NetWare Client32 software, or from a Windows 95/98/Me computer running either Novell Client32 or Microsoft Client for NetWare networks.

1 Install the NetWare software component on the computer.

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.

3 In the MarkVision main window, find the new network printer.

Look for the line item containing your print server physical address (the MSB form of the print server UAA).

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

- 4 Double-click the network printer.**
- 5 Configure the MarkNet print server:**

- 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.

- 6 If prompted to reset the print server, select Yes to immediately begin servicing the queues.**

AppleTalk

Create a Desktop printer

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

- 1 In the Chooser, select the LaserWriter 8 driver.**
- 2 If you have a routed network, there is a list of zones you can select from. The new printer is in the default zone for the network. Select this zone. If you don't know**

which zone to select, look on the network setup page under AppleTalk for Zone.

- 3 Select the new printer. If you don't know which printer to select, look on the network setup page under AppleTalk. The default name of the printer is listed beside Name.
- 4 Click Create.
- 5 If you are prompted to select a PPD (Post-Script Printer Description), you need to install the proper PPD from the Drivers, MarkVision and Utilities CD. To do this, launch the CD, click Lexmark Installer, select the appropriate PPD for your printer, and then click Install. Go back to the Chooser and try to create the new printer again.
- 6 Look for an icon to appear in the Chooser next to the printer name. This means you have successfully set up the new printer. A new desktop printer icon is placed on your desktop, too.
- 7 In the Chooser, select the printer you want to use now and close the Chooser window.

Note: A PPD describes the printer or printer family. For example, the PPD lists which options are valid for the printer.

Change the zone and printer name

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

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. You can also use the printer operator panel to change the zone. (**Hint:** *PARALLEL MENU, STD PARALLEL, NETWORK 0 SETUP, APPLETALK, PARALLEL X SETUP, Set Zone.*)

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.

OS/2 printer drivers and utilities are available at www.lexmark.com.

Network printer troubleshooting

For expanded troubleshooting information, look on the *Drivers, MarkVision and Utilities* CD. Click **View Documentation** and look for the MarkNet link. Also, free firmware updates for any Lexmark print server are available on our Web site at www.lexmark.com.

TCP/IP

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.

- 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.**

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>).

7 For non-UNIX networks:

- a Uninstall Lexmark software.**
- b Reinstall Lexmark software.**

During the reinstallation, select only those network protocols you actually use (for example, TCP/IP).

8 Try printing again.

9 If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the Web at 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 NDPS support. Look for a Readme file or a technical white paper in the package you downloaded from the Lexmark Web site.

- 6 If you are still having trouble, contact Lexmark for help at 1-800-LEXMARK (1-800-539-6275) or on the Web at 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.**

- 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 Web at www.lexmark.com.

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.

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 Verify 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.

You may be experiencing a spooler problem that requires a restart.

10 Uninstall, and 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 Web at 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 Verify you can see the printer in the Chooser:

- If you can't, restart the Macintosh computer and look again.
- If you can, 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 computer 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 great deal 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 Web at 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.

A

adjusting margins 80
attaching cables 61

C

cable connectors
 LocalTalk 61
 parallel 61
 serial 61
cables, attaching 61
cartridge, photo developer 53
Cautions 2
CD, launching 89
changing paper type settings 77
cleaning roll 49
configuring and printing 94
conventions 2

D

drawers
 See *optional drawers*
drivers 89
duplex unit margin adjustment 85
duplex unit, installing 43

E

envelopes 68
environmental issues 5
Ethernet support 37
external print server 61

F

flash memory
 card 29
 overview 29
 removing 33
fuser 49

H

hard disk
 available options 33
 installing 33

I

INA
 See *network adapter* 37
installing
 cleaning roll 49
 duplex unit 43
 fax modem interface cards 37
 flash memory card 29
 hard disk 33, 37
 memory 26, 29
 network interface cards 37
 oil bottle 49
 optional drawer 7, 15
 parallel port interface cards 37
 photo developer 53
 print server 37
 rear cover 39
 toner cartridges 57
 tri-port interface cards 37
 USB interface cards 37
interface cards
 fax modem 37
 installing 37
 parallel port 37
 print server 37
 tri-port 37
 USB 37

L

language, changing 90
legal paper tray 70
loading
 envelopes 68
 legal paper tray 70
 standard paper tray 65

LocalTalk support 37
location for the printer, choosing 3

M

Macintosh support 89
margin adjustment tray 2 80
margin adjustment, duplex unit 85
MarkNet Pro adapter 61
MarkNet S adapter 37, 61
MarkNet XLe adapter 61
MarkVision 89
memory, installing 26, 29
moving
 printer 6

N

network
 configuration 94
 connecting to 61
 troubleshooting printer setup 103
notes 2
Novell NetWare 100

O

oil bottle and cleaning roll 49
optional drawers, setting up 7, 15
options
 drawers 7, 15
 duplex unit 43
 hard disk 33
 memory 26, 29
 parallel port interface cards 37
 tri-port interface cards 37
OS/2 support 89

P

paper
 loading trays 65
Paper Type settings 77
parallel port adapter 37
parallel port interface cards
 installing 37
photo developer cartridge 53
 protecting from light 6

 removing 6
Power Saver message 76
print server 37
printer
 drivers 89
 environment 5
 moving 6
 space required 4
 unpacking 9
 weight (without supplies) 11, 13
printing
 network configuration 94

Q

Quick Reference Card
 attaching
 installing Quick Reference sleeve 60

R

rear cover
 installing 39
removing a flash memory card 33
roll, cleaning 49

S

safety information ii
serial interface
 installing an optional tri-port adapter 37
 recommended cable 61
space, allowing for the printer 3
system board
 adapter connectors 37
 memory connectors 26, 30

T

TCP/IP 94
Token-Ring support 37
toner cartridges, installing 57
transparencies, loading 65
tray 2 margin adjustment 80
trays, loading media 65
tri-port adapter 37
tri-port interface cards
 installing 37

interfaces supported 37
troubleshooting network printer setup 103

U

unpacking the printer 9
USB adapter 37

V

verifying printer setup 75

W

Warnings 2
Windows support 89
World Wide Web 1

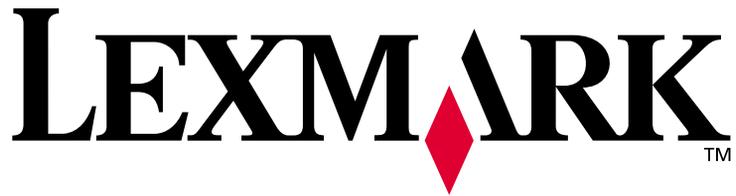
Viewing the *User's Guide* CD

Insert the CD into the CD-ROM drive. If the CD does not launch automatically:

- 1** Select your CD-ROM drive.
- 2** Double-click **START.PDF** (or double-click the CD icon on your desktop and then click **START.PDF** if you are using a Macintosh computer).

You must have a copy of Adobe Acrobat Reader Version 4.0 or later to view the *User's Guide* CD.

If Acrobat Reader is not installed on your operating system, visit the Adobe Web site at www.adobe.com to download the Acrobat Reader version you need.



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