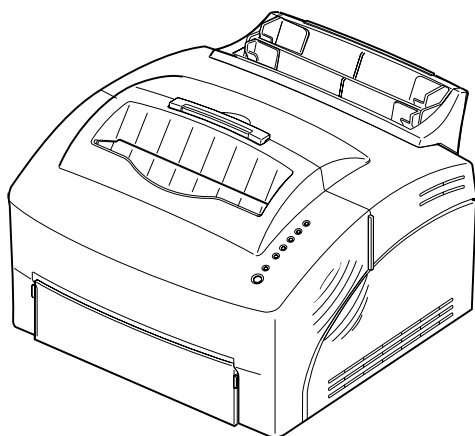


# OPTRA E310



## **First Edition (January 1999)**

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Details relating to compatibility are included in the *Technical Reference*.

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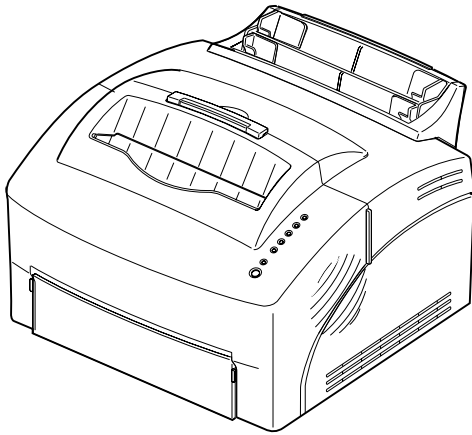
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# About your printer

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The Optra E310 printer combines the quality of a laser printer with a conveniently small footprint for a perfect fit.

With its easy setup, you'll be printing in no time. Use this book for information on:

- installing printer memory options
- installing printer drivers
- loading paper
- solving printing problems
- understanding the operator panel light sequences
- maintaining your printer

We'd like to keep you informed of upgrades for your printer and new products as they become available, so be sure to fill out the printer registration card and mail it in.

If you have any comments about the printer documentation, use the Reader's Comment Form in the back of this book. We'd like to hear your suggestions.

## **Performance**

The Optra E310 printer prints up to 8 pages per minute for quick job turnaround. It comes with 2MB of memory, expandable to 66MB to print complex jobs quickly. You can also install an optional flash memory card to store forms, macros and downloaded fonts. PostScript Level 2 and PCL 6 emulation datastreams give you application flexibility.

## **Print quality**

Selectable print resolution to optimize printer/job performance: true 600 x 600 dpi resolution for crisp images and graphics; 1200 Image Quality to print sharper scanned or bitmapped print images; 300 dpi with the Toner Saver setting selected from your printer driver to conserve toner when printing drafts.

## **Ease of use**

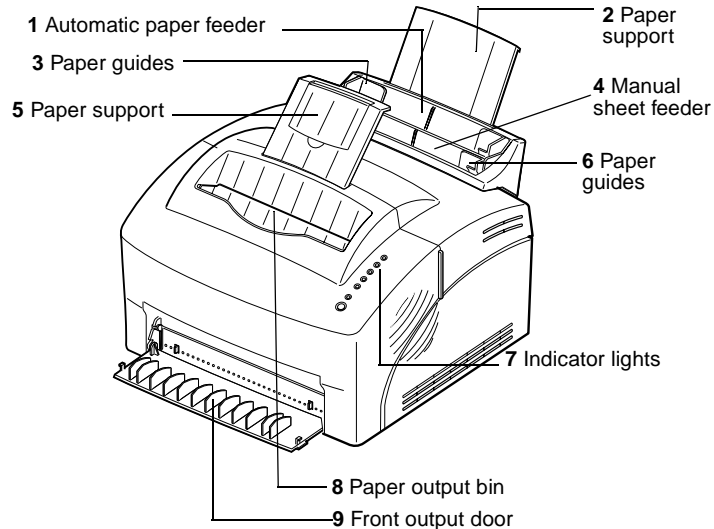
A variety of fonts for printing flexibility: 45 Laser-Jet compatible scalable fonts, 39 Optra-compatible scalable fonts, 36 PostScript scalable fonts and FontVision™ font manager utility with 110 fonts and world-class font support, including the new Euro currency symbol.

The MarkVision printer utility that ships with your printer lets you:

- view and change your printer settings
- view your operator panel status
- view printer error messages
- use on-line Help

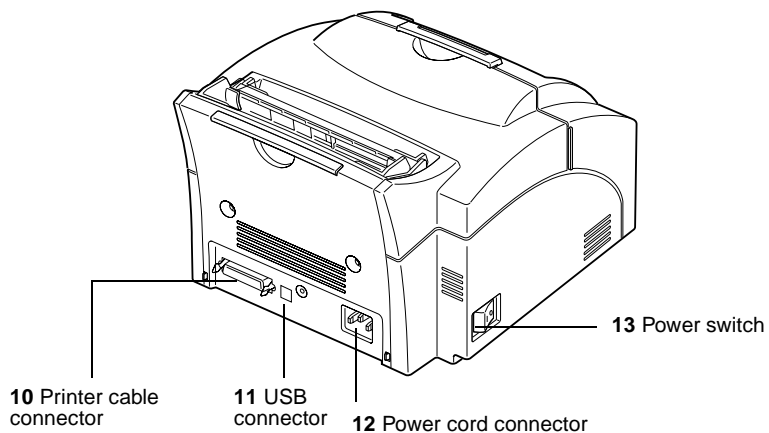
## Printer Features

### Front View



Use the:	When you want to:
1 Automatic paper feeder	Load paper/other media (up to 150 sheets of paper or 10 sheets of other media).
2 Paper support	Stack media in the automatic paper feeder.
3 Paper guides	Adjust the width of the paper in the automatic paper feeder.
4 Manual sheet feeder	Load a single sheet of paper/other media. Use for transparencies, labels, envelopes and card stock.
5 Paper support	Stack media in the paper output bin.
6 Paper guides	Adjust the width of the paper in the manual sheet feeder.
7 Indicator lights	Check the status of your printer. For information, see "Printer status information" on page 38.
8 Paper output bin	Stack printed documents, face down.
9 Front output door	For single sheet output. Use the front exit when printing on card stock. To minimize curl, use when printing labels, envelopes and transparencies.

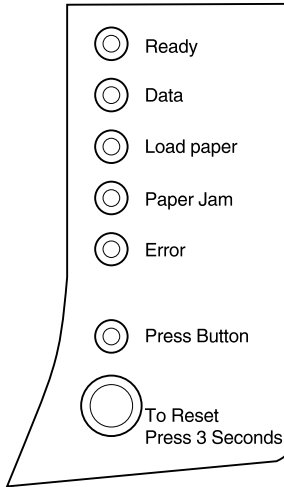
## Rear view



Use the:	When you want to:
10 Printer cable connector	Connect your computer to the printer's parallel port with a parallel interface cable.
11 USB connector	Connect your computer to the printer's USB port with a Universal Serial Bus cable.
12 Power cord connector	Connect your printer to a properly grounded wall outlet with a power cord.
13 Power switch	Turn your printer on or off.



## Operator panel lights



The operator panel has 6 lights and 1 button. Different light sequences provide status, attendance and service information.

Depending on the light sequence, **briefly** (approximately one second) pushing the Operator Panel button activates different printer functions, such as restarting the printer, printing data or displaying an error code.

Press and hold the Operator Panel button for 3 seconds *only when you want to reset the printer to the user defaults. When resetting the printer to the user defaults, all print job data is lost.*

The different light sequences are explained in the Troubleshooting chapter beginning on page 35. Use MarkVision, your software application driver or the Printer Toolkit provided with your setup diskette to change printer settings such as paper source, paper size and orientation.

To set up your printer, turn to the next chapter.

## **Other information sources**

In addition to this User's Guide, Lexmark offers other sources of information about your printer or about Lexmark products and services.

### ***On-line documents***

The CD that was shipped with your printer contains several on-line documents. Refer to the booklet that came with the CD for launching instructions. Once you have launched the CD, click the View On-line Documentation icon to display a list of the available documents. All on-line documents are in English only. The CD includes:

- Getting Started with MarkVision, which provides step-by-step instructions for installing MarkVision for Windows 95, Windows 98 and Windows NT 4.0. It also describes some of the most popular MarkVision features.
- Card Stock & Label Guide, which provides detailed information about selecting media appropriate for your printer.

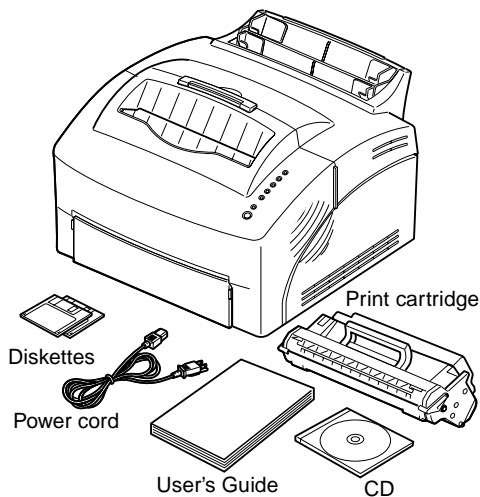
### ***Technical Reference***

For more information about printer languages and commands, you can purchase a Lexmark Technical Reference. Just fill out the order form included with the printer registration card and drop it in the mail.

# The basics

## 1

### What's in the box



- 1 Remove the printer and all accessories from the packaging carton.**

Save the carton and packing materials in case you need to repack the printer for service or storage.

- 2 Make sure you have the items listed below:**

- *User's Guide* and printer registration card
- printer
- print cartridge
- power cord
- CD
- Windows 3.1 diskettes (not shipped to all countries)

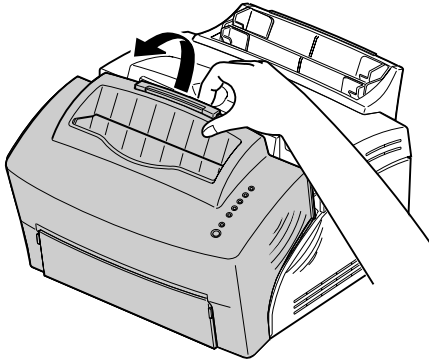
If you need help during setup, or if any items are missing or damaged, refer to the registration card for the designated Lexmark phone number for your country.

- 3 Place the printer on a flat, stable surface in a well-ventilated area near your workstation.**

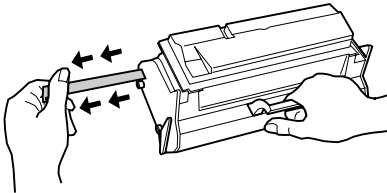
Do not place the printer:

- in direct sunlight
- near heat sources or air conditioners
- in dusty or dirty environments

## Installing the print cartridge

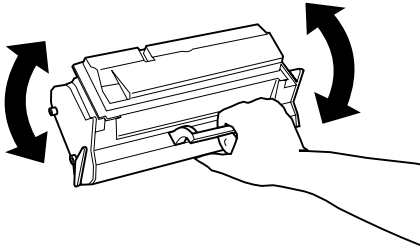


- 1** Use the finger tab to pull down the printer cover.



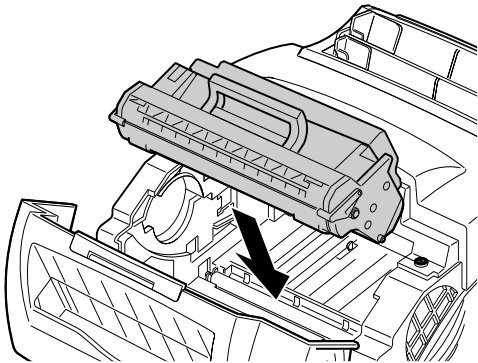
- 2** Unpack the print cartridge.
- 3** Holding the cartridge level, pull out the sealing tape.

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

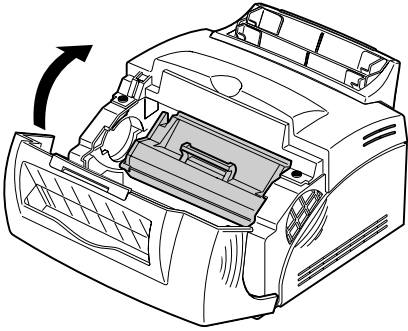


- 5 Insert the print cartridge:**

- a** Slide the print cartridge down between the print cartridge slots.
- b** Gently push down on the cartridge until it drops into place.



## 6 Close the printer cover.



### Troubleshooting Tips

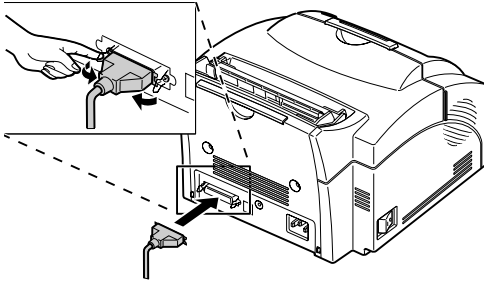
Problem:	What to do:
Characters appear light or blurred.	<ul style="list-style-type: none"><li>• Make sure you removed the sealing tape from the print cartridge.</li><li>• Replace the print cartridge.</li></ul>
Printer seems to be printing, but pages are blank.	<ul style="list-style-type: none"><li>• The print cartridge may be out of toner. Replace the cartridge.</li><li>• The print cartridge may be defective. Replace the cartridge.</li><li>• Make sure you removed the sealing tape from the print cartridge.</li></ul>
Printer is on, but nothing prints. Jobs are not printing and the Error light is on solid.	<ul style="list-style-type: none"><li>• Make sure the print cartridge is installed.</li></ul>

## Connecting the printer to your computer

To print from software loaded on your computer, your printer needs to be connected to your computer with either a parallel interface cable or a USB cable.

### *Using a parallel interface cable*

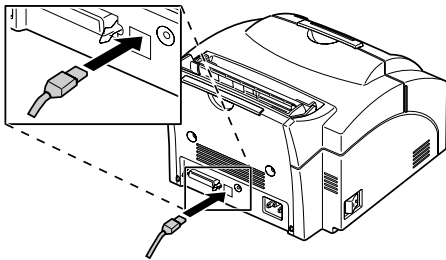
Your printer requires an IEEE-1284 compliant parallel cable. We recommend Lexmark part number 1329605 (10 ft) or 1427498 (20 ft). If you use something other than an IEEE-compliant cable, you may not be able to use all of your printer's functions.



- 1** Make sure your printer is turned off.
- 2** Plug the parallel interface cable into the connector on the back of the printer.
- 3** Push the metal clips toward the plug until they snap in the notches on the plug.
- 4** Attach the other end of the parallel cable to your computer.
- 5** Turn on the printer.

## Using a USB cable

If you are connecting your printer to a PC with a USB (Universal Serial Bus) cable, follow the instructions below.

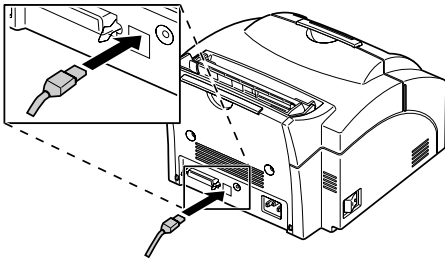


- 1** Make sure your computer and printer are turned off.
- 2** Connect the USB cable to the port on the back of your computer.
- 3** Connect the other end of the cable to the USB port on the back of your printer.
- 4** Turn on your computer and your printer.
- 5** When the Add New Hardware Wizard screen appears:
  - a** Select **Next** to begin searching for new drivers.
  - b** Select **Next** to search for best driver.
  - c** At the next screen, deselect the **floppy disk drives** box and **Microsoft Windows update** box and select the **Specify Location** box.
  - d** Insert the CD that came with your printer, then select **Browse**.
  - e** Select the letter of your CD drive and highlight the **Win98USB** folder.
  - f** Select **OK**, **Next**, **Next**.
  - g** When the hardware is loaded, click **Finish**.  
The CD is automatically launched.
- 6** Follow the installation instructions on the printer drivers screen.
- 7** Select the LPT1 port as your default printer port.
- 8** When you are finished, exit the CD.
- 9** Restart your computer.



- 10** To select the USB port, choose Settings, then choose Printers from the Start menu.
- 11** From the Printers folder, highlight the Optra E310 icon.
- 12** Open the File menu and click Properties.
- 13** Select the Details tab.
- 14** In the Print to the following port box, select USB port USB001 (Lexmark USB port).
- 15** Click OK.

If you are connecting your printer to a Macintosh with a USB cable, follow the instructions below.



- 1** Connect the USB cable to the port on the back of your computer.
- 2** Connect the other end of the cable to the USB port on the back of your printer.
- 3** Launch the CD to install the printer drivers and utilities (instructions to launch the CD are in the CD booklet).
- 4** Restart your computer.
- 5** Open the Apples Extras folder.
- 6** Open the Apple LaserWriter Software folder.
- 7** Start the Desktop Printer Utility application.
- 8** Select Printer (USB) from the list, then click OK.
- 9** When the next dialog appears:
  - a** Click the **Change** button in the PPD File box.
  - b** Scroll through the list of printer descriptions, select the **Optra E310 PPD**, and click **Select**.
  - c** Click the **Change** button in the USB Printer Selection box.
  - d** Scroll through the list of printer models, select the **Optra E310** and click **OK**.
  - e** Open the File menu and click **Save**.
- 10** When the Save dialog appears, you can give the printer another name or keep the same name, then click the Save button.

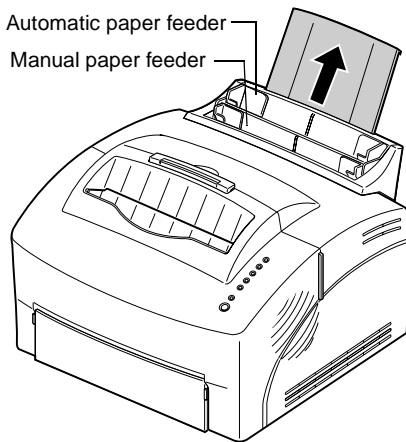
After a short delay, the new desktop printer icon appears.

- 11** Quit the Desktop Printer Utility application.
- 12** Select the new desktop printer icon. A Printing menu appears.
- 13** If you want to use this printer as your default printer, select Set Default Printer from the Printing menu.

## Troubleshooting Tips

Problem:	What to do:
Unexpected characters print or characters are missing.	<ul style="list-style-type: none"> <li>• Make sure the parallel cable or USB cable is firmly plugged in at the back of the printer.</li> </ul>
You are connected to the USB port, but the printer will not print.	<ul style="list-style-type: none"> <li>• If you are connected to a PC, make sure you are using Windows 98.</li> </ul>

## Loading paper

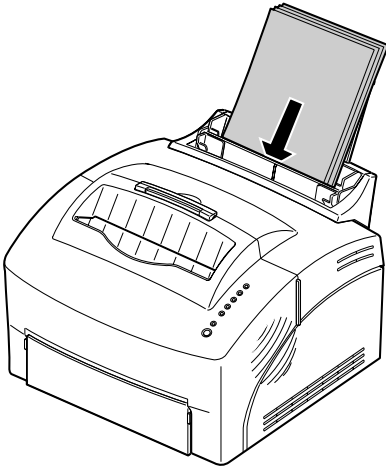


You can load paper in the automatic paper feeder, which holds up to 150 sheets, or the manual feeder, which holds 1 sheet at a time.

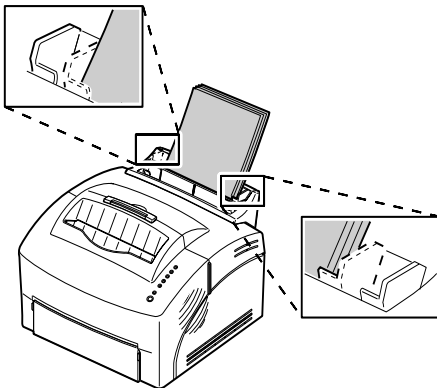
- 1** To print from the automatic paper feeder, extend the paper support.
- 2** Before loading paper, flex the sheets back and forth to loosen them, then fan them.

- 3 If the paper has a preferred print side, insert the paper with the print side facing you.**

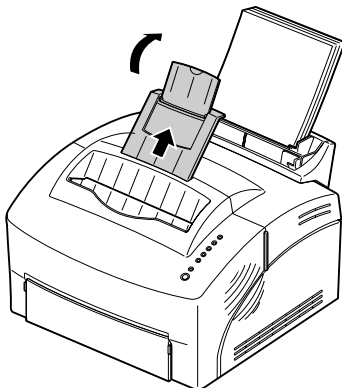
If you are loading letterhead paper, insert letterhead with the top of the page pointing down.



- 4 Slide the paper guides against the edges of the paper.**



- 5 Extend the paper support on the paper output bin.**
- 6 Select the paper size from your software application.**
- 7 Start your print job.**



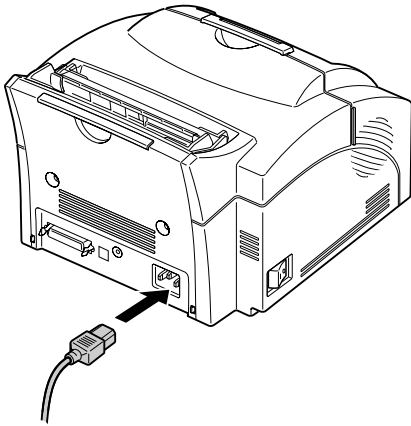
## Troubleshooting Tips

<b>Problem:</b>	<b>What to do:</b>
Toner smudges appear on the front or back of the page.	<ul style="list-style-type: none"><li>• Make sure the paper is straight and unwrinkled.</li></ul>
Paper sticks together/printer feeds multiple sheets of paper.	<ul style="list-style-type: none"><li>• Remove the paper from the paper feeder and fan the paper.</li><li>• Make sure there isn't too much paper in the paper feeder. The automatic paper feeder holds up to 150 sheets, depending on the thickness of the paper.</li></ul>
Paper fails to feed from the automatic paper feeder.	<ul style="list-style-type: none"><li>• Remove the paper from the paper feeder and fan the paper.</li></ul>
Paper skews or buckles.	<ul style="list-style-type: none"><li>• Make sure there isn't too much paper in the paper feeder. The automatic paper feeder holds up to 150 sheets, depending on the thickness of the paper.</li><li>• Make sure the paper guides are properly positioned against the edges of the paper.</li></ul>

## Printing a test page

To check that your printer is working correctly, print a test page.

To print a test page, the print cartridge must be installed (see page 2).



- 1 Turn the printer off.**
- 2 Plug one end of the power cord into the power cord connector on the back of the printer and the other end into a properly grounded wall outlet.**
- 3 Turn on the printer.**  
As the printer powers up, each operator panel light turns on and off, starting with **Press Button** and ending with the **Ready** light. If this does not happen, see “Printing problems” on page 36.
- 4 When the Data light stops blinking and Ready is the only light on, briefly press the operator panel button.**

A test page listing your printer model and default settings should print out. If it doesn't, check “Printing problems” on page 36.

### Troubleshooting Tips

Problem:	What to do:
The operator panel lights do not come on when the printer is turned on.	<ul style="list-style-type: none"> <li>• Make sure the power cord is firmly plugged in at the back of the printer and at the wall outlet.</li> </ul>

## Attaching a new operator panel overlay

If you have a non-English overlay sheet in your printer box and wish to use it, peel it off and place it over the overlay currently on your printer.

## Installing memory

To install a memory card or a flash memory card, go on to the next section. Otherwise, you are ready to set up your application software and install the appropriate printer driver. Refer to the booklet that came with the CD for installation instructions. Turn to Chapter 2 for more information about the printer utilities and drivers.

Your printer comes with 2MB of printer memory. You can buy and install a 4MB, 8MB, 16MB, 32MB or 64MB optional memory card for a total of 66MB of printer memory.

You can also install a 1MB, 2MB or 4MB optional flash memory card for storing downloaded fonts or macros.

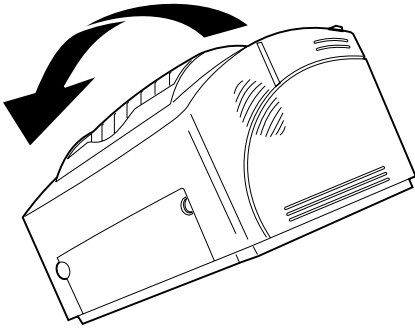
### ***Removing the system board shield***

Before installing any of these option cards, you will need a small Phillips screwdriver to remove the metal shield covering the printer system board.

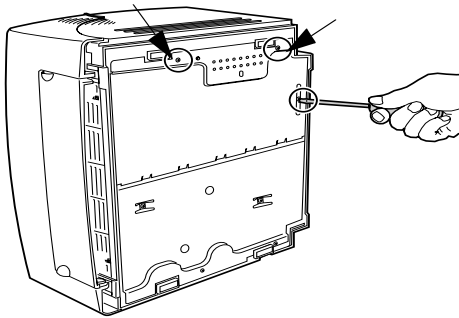
- 1 Turn off the printer and unplug the power cord from the printer.**
- 2 Disconnect the printer cable (if attached) from the printer.**
- 3 Remove the print cartridge and cover it.**

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**Note:** Exposing the photoconductor to light may damage the print cartridge. After you remove the cartridge from the printer, cover it or store it in a clean, dark place.



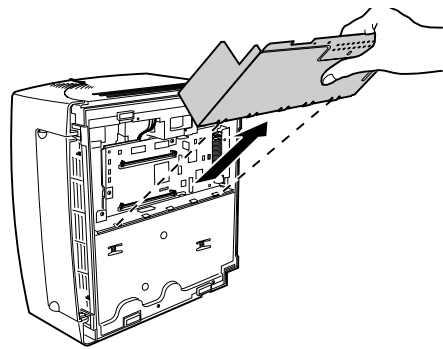
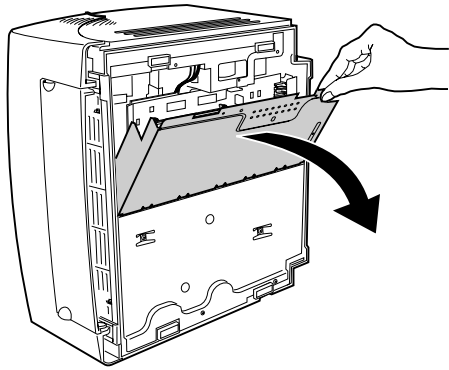
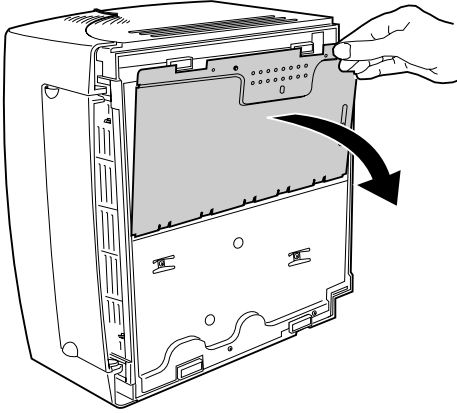
- 4** With the printer facing you, place it on its left side.



- 5** Turn the printer around so the bottom of the printer is facing you.
- 6** Locate and remove the 3 screws on the metal shield.



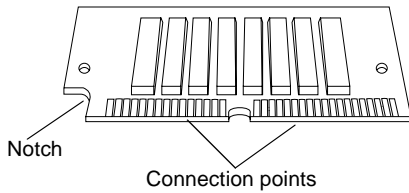
- 7** Grasp the corner of the shield and gently pull it out, then down.



- 8** Pull the shield away from the printer.

## ***Installing a printer memory card***

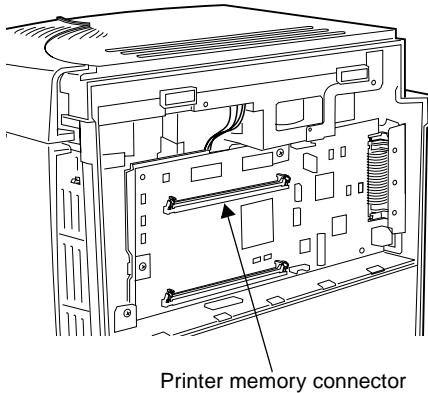
To install an optional printer memory card, follow the instructions below.



- 1 Remove the printer memory card from its packaging.**

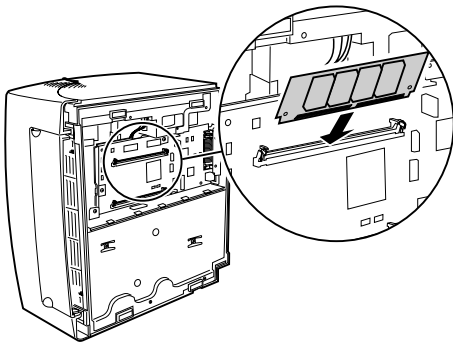
Avoid touching the connection points along the edge of the card.

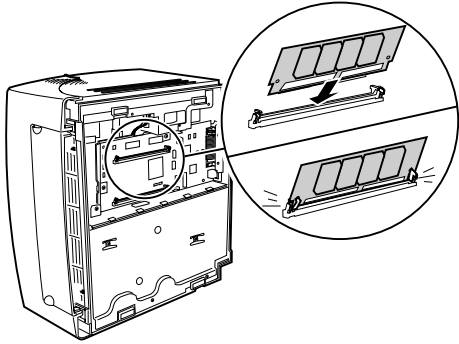
- 2 Locate the printer memory connector.**



- 3 Hold the option card with the connection points facing toward the system board, with the notch pointing down and to the left.**

- 4 Insert the card into the printer memory connector at a 45 degree angle.**

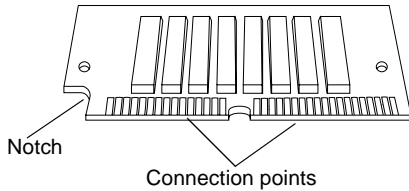




- 5 Gently push the card all the way in.**
- 6 Push the card back with your thumbs until it snaps into place.**

### ***Installing a flash memory card***

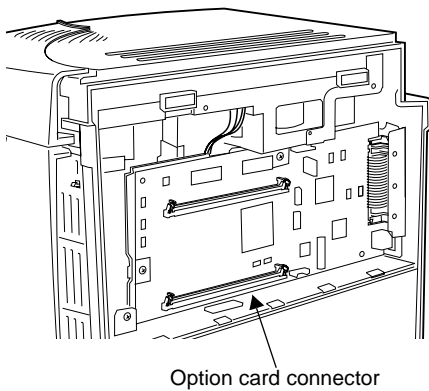
To install an optional flash memory card:

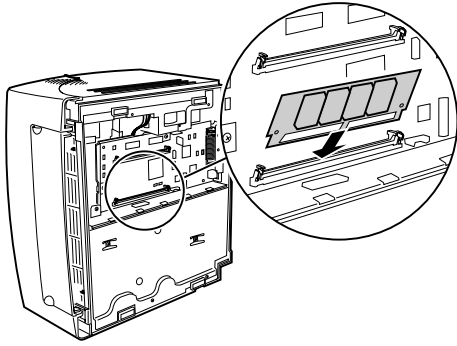


- 1 Remove the printer memory card from its packaging.**

Avoid touching the connection points along the edge of the card.

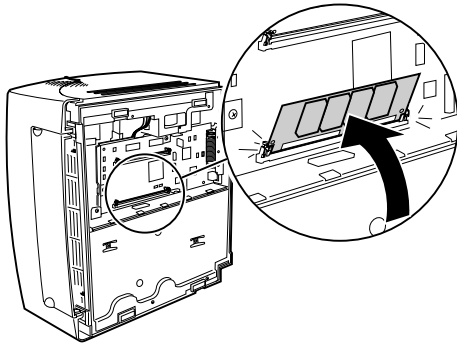
- 2 Locate the option card connector.**





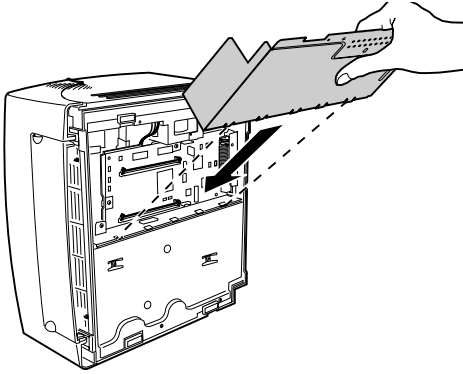
**3** Hold the option card with the connection points facing toward the system board and the notch pointing down and to the left.

**4** Insert the card into the option card connector at a 45 degree angle.



**5** Gently push the card all the way in.

**6** Push the card back with your thumbs until it snaps into place.



When you have finished installing the option card(s):

- 1 Fit the metal shield into the slots and reattach the screws.**
- 2 Put the printer back to its original upright position.**
- 3 Re-install the print cartridge.**
- 4 Reconnect the computer cable and latch the metal clips.**
- 5 Plug the power cord into the printer.**
- 6 Turn the printer on.**

As the printer powers up and the operator panel lights begin cycling on and off, there is a pause while the new memory is tested, then the lights continue cycling.

- 7 When the Ready light comes on, press the operator panel button briefly and print a test page to verify that printer memory or additional flash memory is installed.**

If the Ready light does not come on, see “Printing problems” on page 36.



# Printer drivers

## 2

Included with your printer is a compact disc (CD) containing printer drivers and utilities for Windows 95, Windows 98, Windows NT 4.0, Windows 3.1x, Macintosh, OS/2 and DOS operating systems. Refer to the CD booklet for information about launching the CD program for your operating system. When the CD program is running, press F1 for on-line Help at any time.

Diskettes containing a setup utility and Windows 3.1x drivers are included with the printer for some countries. You can also create diskettes from the CD or visit our website at <http://www.lexmark.com> to download a printer driver to your computer.

### Printer drivers

Printer drivers for the following operating systems and applications are included on the CD:

- Windows 95
- Windows 98
- Windows NT 4.0
- Windows for Workgroups 3.11
- Windows 3.1x
- Macintosh System 7
- OS/2 Warp
- OS/2, 2.1 or later
- WIN-OS/2 for OS/2, 2.1 or later

- DOS applications:
  - WordPefect 5.1, 6.0
  - Lotus 1-2-3 2.x, 3.x

Additional printer drivers may have been developed since this book was printed. Refer to the CD README for a complete list of all the drivers included on the CD.

### ***Automated fax system***

In the U.S. and Canada, you can get a list of available drivers by calling the Lexmark Automated Fax System. The system is available 24 hours a day, 7 days a week.

Just call (606) 232-2380 from a touchtone phone and follow the voice prompts.

If you have a modem attached to your computer, you can download printer drivers from the Lexmark Bulletin Board System (BBS). In the U.S. and Canada call (606) 232-5238. For all other countries, refer to the Contacting Lexmark information on the CD or the printer registration card.

### ***Printer utilities***

The CD also includes printer utilities. If you're using Windows 95, Windows 98, Windows NT 4.0, Macintosh or OS/2 Warp, you can install the MarkVision utility.



## **MarkVision**

With its easy-to-use tabs, MarkVision provides a quick and easy way to view and change printer settings right from your computer. You can:

- select the status tab to view up-to-the-minute printer status
- use Quick Setup to save your printer settings and set up one or more printers with your printer configuration
- download fonts and overlays with the Windows Toolkit
- use Printer Job Management to view and manage printer jobs

To install MarkVision, refer to the MarkVision on-line documentation on the Drivers, MarkVision and Utilities CD that came with your printer.

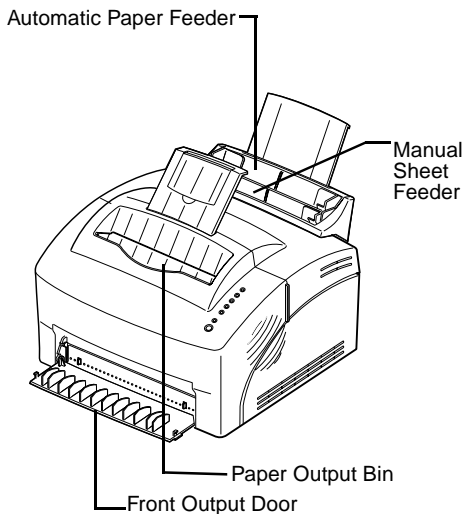
### ***On-line help***

On-line Help is available from all MarkVision screens. MarkVision for Windows 95, Windows 98 and Windows NT 4.0 includes step-by-step instructions for using many MarkVision functions.



# Paper handling

## 3



Your printer has two standard paper sources: an automatic paper feeder, which holds up to 150 sheets of plain paper and a single sheet manual feeder. Use the automatic paper feeder for the print jobs you do most often. Use the manual sheet feeder to feed a single page, transparency, envelope, label or index card.

Your printer also has an output bin on top of the printer that collates up to 100 sheets (face down), and the single sheet front output door, which lets you feed media straight out the front of the printer, reducing curling and potential paper jams when using special media such as transparencies, envelopes, labels, card stock or index cards.

## Paper types and sizes

Selecting the right paper type reduces printing problems. For best print quality, use 20 lb (75 g/m<sup>2</sup>) xerographic paper.

If the paper has a preferred print side, load it with the print side facing you.

Media	Size	Weight	Capacity
Paper	A4, A5, B5, letter, legal, executive	16 - 24 lb (60-90 g/m <sup>2</sup> )	Automatic Paper Feeder: 150 sheets Manual Sheet Feeder: 1 sheet
Transparencies	Minimum: 3.875 x 5.9 in. (98 mm x 152 mm) Maximum: 8.5 x 14 in. (216 mm x 356 mm)	16 - 43 lb (60-163 g/m <sup>2</sup> )	Automatic Paper Feeder: 10 sheets Manual Sheet Feeder: 1 sheet
Envelopes	Minimum: 3.875 x 5.9 in. (98 mm x 152 mm) Maximum: 8.5 x 14 in. (216 mm x 356 mm)	16 - 43 lb (60-163 g/m <sup>2</sup> )	Automatic Paper Feeder: 10 envelopes Manual Sheet Feeder: 1 envelope
Labels	Minimum: 3.875 x 5.9 in. (98 mm x 152 mm) Maximum: 8.5 x 14 in. (216 mm x 356 mm)	16 - 43 lb (60-163 g/m <sup>2</sup> )	Automatic Paper Feeder: 10 sheets Manual Sheet Feeder: 1 sheet
Index Cards	Minimum: 3 x 5 in. (76.2 x 127.0 mm)	16 - 43 lb (60-163 g/m <sup>2</sup> )	Automatic Paper Feeder: 10 cards Manual Sheet Feeder: 1 card
Index Bristol / Tag Card Stock	Minimum: 3 x 5 in. (76.2 x 127.0 mm) Maximum: 8.5 x 14 in. (216 mm x 356 mm)	67 - 90 lb Index Bristol (120 - 163 g/m <sup>2</sup> ) 50 - 100 lb tag (75 - 163 g/m <sup>2</sup> )	Automatic Paper Feeder - 10 cards Manual Sheet Feeder: 1 card

**Paper** Load A4, A5, B5, letterhead, legal and executive-size paper one at a time from the manual feeder or load up to 150 sheets in the automatic paper feeder.

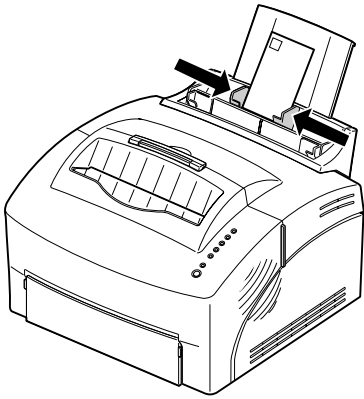
Preprinted papers such as letterhead must be able to withstand temperatures up to 190°C (374°F) without melting or releasing hazardous emissions.

Load letterhead with the top of the page pointing down, facing you.

**Transparencies** If you occasionally print transparencies:

- Use transparencies designed for laser printers. We recommend Lexmark Laser Printer Transparencies: for letter size transparencies, part number 70X7240; for A4 size transparencies, part number 12A5010. Transparencies must be able to withstand temperatures of 190° C (374° F) without melting or releasing hazardous emissions.
- Test the print quality before buying large quantities.
- Load transparencies with a removable stripe so the stripe is away from you and pointing down.

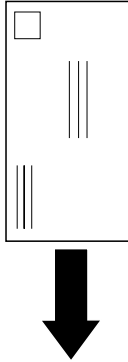
**Envelopes** For occasional envelope printing, feed envelopes one at a time from the manual feeder, or load up to 10 envelopes in the automatic paper feeder.



Load envelopes in the **center** of the manual feeder or automatic paper feeder and slide the paper guides snugly against the sides of the envelopes.

When printing on envelopes:

- Try a sample of any envelopes you are considering using with the printer before buying large quantities.
- Use envelopes made from 75 to 105 g/m<sup>2</sup> (20 to 28 lb) bond paper. For best performance and fewer paper jams, do not use envelopes that:
  - have excessive curl
  - are stuck together
  - are damaged in any way
  - contain windows, holes, perforations, cutouts or embossing
  - use metal clasps, string ties or metal folding bars
  - have postage stamps attached
  - have any exposed adhesive when the flap is in the sealed position
- Use envelopes that can withstand temperatures of 190°C (374°F) without sealing, excessive curling, wrinkling or releasing hazardous emissions.



- Load envelopes vertically, flap side down so the stamp area is in the top left corner.
- Adjust the left and right paper guides to fit the width of the envelopes.

### **Labels**

For occasional label printing, use paper labels designed for laser printers. You can feed labels one at a time from the manual feeder, or you can load up to 10 labels in the automatic paper feeder.

When printing on labels:

- Test the print quality before buying large quantities of labels.
- Use labels with a pressure of 25 psi that can withstand temperatures of 190° C (374° F) without releasing hazardous emissions. For more information on label printing, refer to the Card Stock & Label Guide on the CD.
- Do not print a large number of labels continuously.
- Do not use labels that have exposed adhesive on the sheets.

### **Card Stock**

For occasional printing on index Bristol or tag card stock, feed 1 card at a time in the manual paper feeder. Use card stock with a maximum weight of 163 g/m<sup>2</sup> and a minimum size of 76.2 x 127 mm (3 x 5 in.).

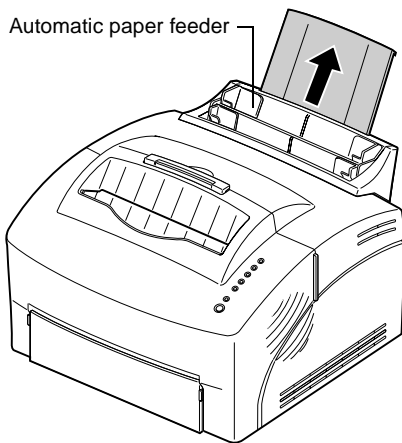
For best results, open the single-sheet front output door so the card stock exits out the front.

## Loading paper, other media in the automatic feeder

Use the automatic paper feeder, which is behind the manual feeder, to feed paper and special media such as transparencies, envelopes, labels and card stock.

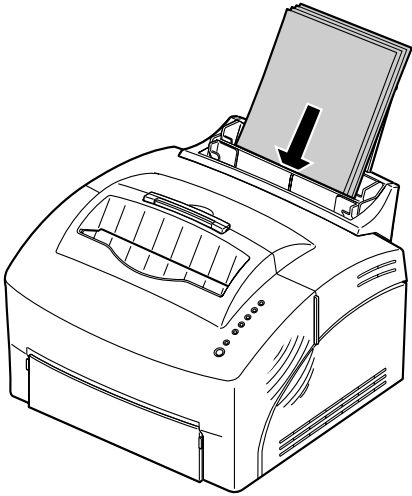
To avoid curling and potential jams when printing on special media, open the front output door to feed the media straight out the front of the printer.

- 1 Extend the paper support on the automatic paper feeder.**
- 2 Before loading media, flex the sheets back and forth to loosen them, then fan them.**



The automatic paper feeder holds up to 150 sheets of paper, 10 sheets of transparencies or labels, 10 envelopes, 10 index cards.



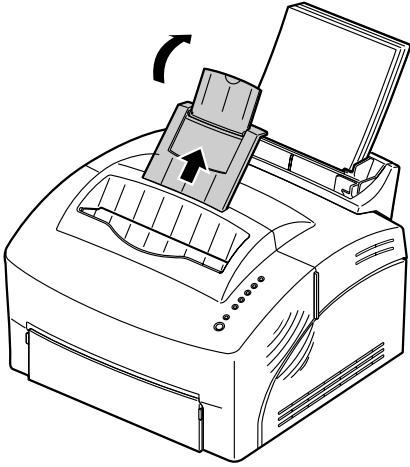


### **3 If loading:**

- A4, A5, B5, legal or executive-size paper, insert the paper with the print side facing you
- letterhead paper, insert letterhead with the top of the page pointing down, facing you
- transparencies with a removable stripe, insert them so the stripe is pointing away from you and pointing down
- envelopes, insert them vertically, flap side down so the stamp area is in the top left corner

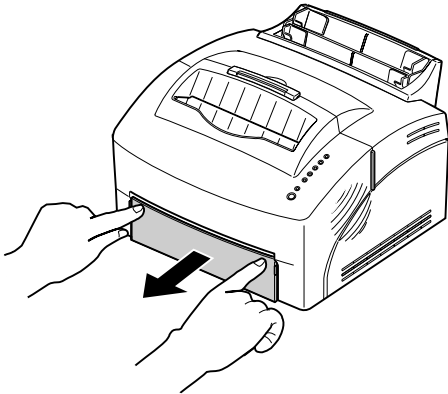
### **4 Slide the paper guides flush against the edges of the media.**

- 5** Extend the paper support on the paper output bin or open the front output door if you're printing on special media.



- 6** Select the automatic paper feeder from your software application.

- 7** Start your print job.



## Loading paper, other media in the manual feeder

Use the manual feeder to feed paper or special media, one sheet at a time, into your printer.

If you experience problems feeding envelopes or index cards in the automatic paper feeder, try printing them one at a time from the manual feeder.

To avoid curling or potential jams when printing on special media, open the front output door to feed media straight out the front of the printer.

**1 Extend the paper support on the paper output bin or open the front output door if you're printing on special media.**

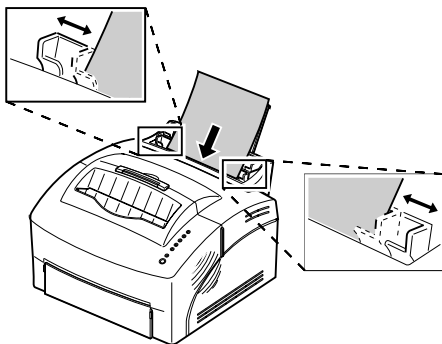
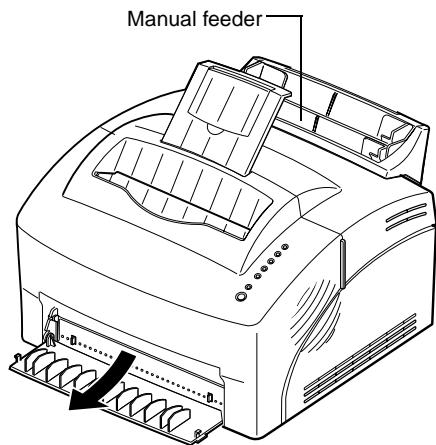
**2 If loading:**

- paper, insert one sheet of paper with the print side facing you
- letterhead paper, insert one sheet of letterhead with the top of the page pointing down, facing you
- transparencies with a removable stripe, insert one transparency so the stripe is pointing away from you and pointing down
- envelopes, insert one envelope vertically, flap side down so the stamp area is in the top left corner
- card stock, insert one card vertically

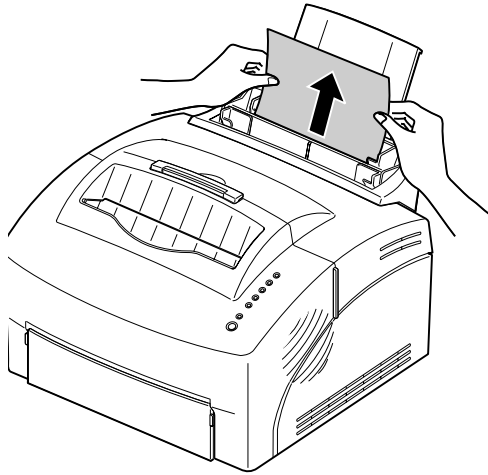
**3 Slide the paper guides flush against the edges of the media.**

**4 Briefly (approximately one second) push Press Button to start printing.**

**5 When the Load Paper light blinks and the Press Button light comes on, place another sheet/other media in the manual feeder. If you are using MarkVision, you will get a load manual paper/envelope message.**



## Clearing paper jams



If you get a paper jam, the Paper Jam indicator light prompts you to clear the paper path.

If the paper has just started to feed from the paper feeder when the jam occurs:

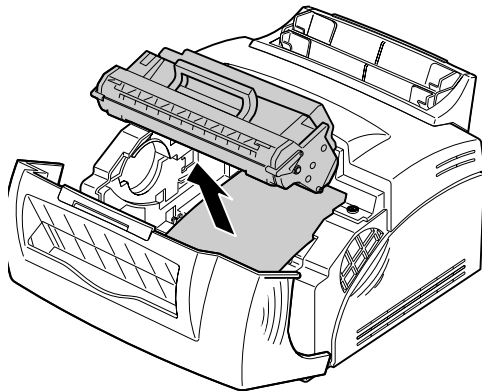
- 1 Pull the paper straight up out of the paper feeder.**
- 2 Open and close the printer cover to resume printing.**

If the paper jam occurs inside the printer:

- 1 Remove the paper from the output bin.**
- 2 Turn the printer off, then on.**

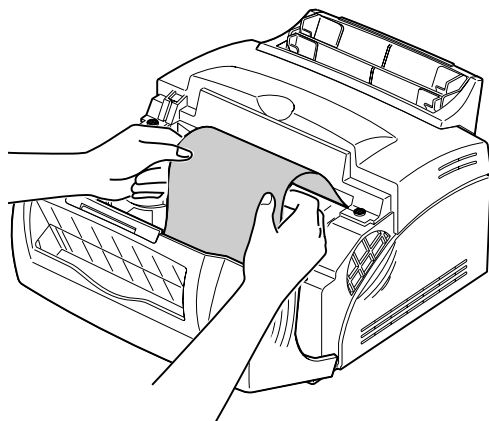
If this doesn't clear the jam:

- 3 Open the printer cover.**
- 4 Remove the print cartridge and cover it.**



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**Note:** Exposing the photoconductor to light may damage the print cartridge. After you remove the cartridge from the printer, cover it or store it in a clean, dark place.



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**Note:** If the paper jam is in the fuser, try opening and closing the cover. Each time you open and close the cover, the paper advances until you can pull it out.

---

**Note:** Serious damage to your printer may occur if adhesive labels remain in the fusing unit. Call for service.

- 5** Grasp the paper on both sides and pull the paper toward you.
- 6** Make sure there is no more paper in the printer.
- 7** Re-insert the print cartridge.
- 8** Close the printer cover to resume printing.

If a paper jam occurs while printing labels:

- 1** Be sure the labels remain attached to the backing sheet after clearing the paper jam.
- 2** Feed 10 or more sheets of plain paper through the printer before resuming label printing. The plain paper will remove any remaining adhesive in or on the fusing unit.

## Troubleshooting Tips

<b>Problem:</b>	<b>What to do:</b>
Paper sticks together/printer feeds multiple sheets of paper. Paper skews or buckles.	<ul style="list-style-type: none"><li>• Make sure you are using recommended paper/other media (see “Paper types and sizes” on page 24).</li></ul>
Envelopes fail to feed correctly.	<ul style="list-style-type: none"><li>• Make sure the envelopes are loaded in the <i>center</i> of the feeder.</li><li>• Try a different kind. Envelopes designed for laser printers produce better results.</li></ul>

# Troubleshooting

## 4

For help solving printing problems, refer to the following tables. If you cannot fix the problem, contact your point of purchase for assistance. You may have a printer part that requires cleaning or replacement by a service technician.

### Print quality problems

Problem:	What to do:
Light or blurred characters.	<ul style="list-style-type: none"><li>• Make sure you removed the sealing tape from the print cartridge.</li><li>• Hot/humid or cold/dry weather conditions may affect how well toner adheres to paper. Select the next darker print setting.</li><li>• If Toner Saver is on, turn it off using MarkVision or your printer driver.</li><li>• Remove the print cartridge, shake it from side-to-side to redistribute the toner, and reinsert it.</li><li>• Run Engine Clean Cycle to remove any toner that may have accumulated (see "Engine clean cycle" on page 56).</li><li>• Make sure you are using recommended paper/other media (see "Paper types and sizes" on page 24).</li><li>• Use MarkVision to define the Custom Type setting for media type, media texture or media weight.</li><li>• Replace the print cartridge.</li></ul>
Toner smudges appear on the front or back of the page.	<ul style="list-style-type: none"><li>• Run Engine Clean Cycle to remove any toner that may have accumulated (see "Engine clean cycle" on page 56).</li><li>• Make sure the paper is straight and unwrinkled.</li><li>• Replace the print cartridge.</li></ul>
Vertical or horizontal streaks appear on the page.	<ul style="list-style-type: none"><li>• Run Engine Clean Cycle to remove any toner that may have accumulated (see "Engine clean cycle" on page 56).</li><li>• Replace the print cartridge.</li></ul>

## Print quality problems

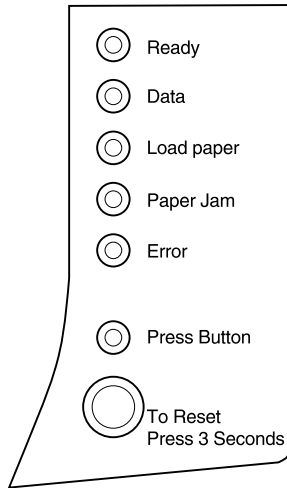
Toner smears or rubs off the page.	<ul style="list-style-type: none"> <li>• Run Engine Clean Cycle to remove any toner that may have accumulated (see "Engine clean cycle" on page 56).</li> <li>• Select a different Media Type or Form Type setting from your Lexmark printer driver.</li> <li>• Try a different kind of xerographic bond paper.</li> </ul>
Solid black areas on transparencies or paper contains white streaks.	<ul style="list-style-type: none"> <li>• Choose a different fill pattern in your software application.</li> <li>• Try a different type of paper. Paper designed for copiers give the best quality.</li> <li>• Replace the print cartridge.</li> </ul>
Faint images or repetitive spots appear on the page.	<ul style="list-style-type: none"> <li>• Select a different Media Type or Form Type setting from your Lexmark printer driver.</li> <li>• Try a different kind of xerographic bond paper.</li> <li>• Replace the print cartridge.</li> </ul>

## Printing problems

<b>Problem:</b>	<b>What to do:</b>
Printer has missing or damaged parts.	<ul style="list-style-type: none"> <li>• Inside the U.S., call the number listed on your printer registration card.</li> <li>• Outside the U.S., contact your point of purchase.</li> </ul>
Power is turned on at a power strip but the Ready light is not on.	<ul style="list-style-type: none"> <li>• Be sure the printer power switch is on too.</li> </ul>
Printer is on, but nothing prints.	<ul style="list-style-type: none"> <li>• Make sure the print cartridge is installed.</li> <li>• Make sure the parallel cable is firmly plugged into the connector on the back of the printer.</li> <li>• Print a test page (do a brief button press) to determine if the problem is with the printer or the computer. <ul style="list-style-type: none"> <li>– If you can print a test page, the problem is in the computer or the software application.</li> <li>– If you cannot print a test page, call the Lexmark service number listed on the printer registration card.</li> </ul> </li> </ul>
Printer does not print even though a paper jam has been cleared.	<ul style="list-style-type: none"> <li>• Open and close the printer cover to restart the printer.</li> </ul>
Unexpected characters print or characters are missing.	<ul style="list-style-type: none"> <li>• Make sure you are using the correct printer driver.</li> <li>• Select Hex Trace Mode from the Special Function Menu to determine what the problem is.</li> <li>• Restore factory defaults (see "Reset user defaults" on page 55).</li> </ul>
While in PostScript Level 2 emulation, the printer is flushing data (Data and Error indicator lights are blinking.)	<ul style="list-style-type: none"> <li>• Make sure you are using the correct PostScript driver.</li> <li>• The printer doesn't have enough memory to print the job. Install more memory (see "Installing a printer memory card" on page 16).</li> </ul>
While in MarkVision, the Press Button light is on.	<ul style="list-style-type: none"> <li>• The printer is off-line. Press and hold the operator panel button for 3 seconds to reset the printer.</li> </ul>



# Indicator lights



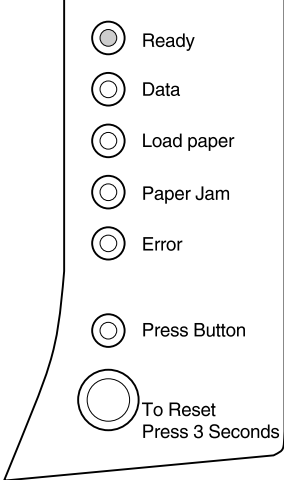
The next section explains the various light sequences with a corresponding illustration.

The indicator lights mean different things, depending on their sequence. They indicate that the printer is Ready to print (printer status information); the printer needs attention (printer attendance information); or the printer needs servicing (printer service information).

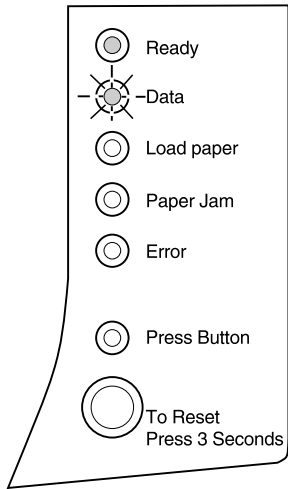
## Operator panel terms

	Light is on
	Light is off
	Light is blinking
	Press Button <ul style="list-style-type: none"> <li>Brief button press (push the button once for no more than 3 seconds)</li> <li>Long button press (hold until all the lights come on)</li> <li>Double click button press (push and release the button twice quickly)</li> </ul>

## ***Printer status information***

<b>If your printer lights look like this:</b>	<b>Then your printer:</b>
 <p>The diagram shows a vertical column of seven circular indicator lights. From top to bottom, they are labeled: Ready, Data, Load paper, Paper Jam, Error, Press Button, and To Reset Press 3 Seconds. The 'To Reset Press 3 Seconds' light is significantly larger than the others.</p>	<p>is <b>Ready</b> to receive and process data.</p> <ul style="list-style-type: none"><li>• Print a test page by pushing the operator panel button with a brief button press, or</li><li>• reset the printer by pushing the operator panel button with a long button press. Each time the printer is reset, the print job in process is terminated.</li></ul>

**If your printer lights look like this:**

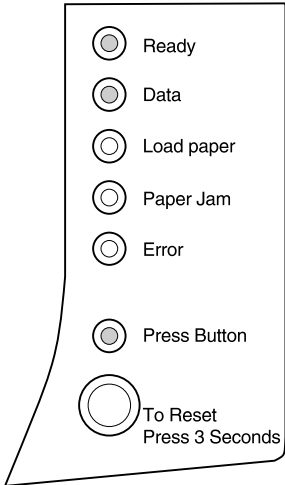


**Then your printer:**

is **Busy** receiving data, processing data, the print engine is running, or processing/printing a test page.

- If you want to reset the printer, push the operator panel button with a long button press.

**If your printer lights look like this:**

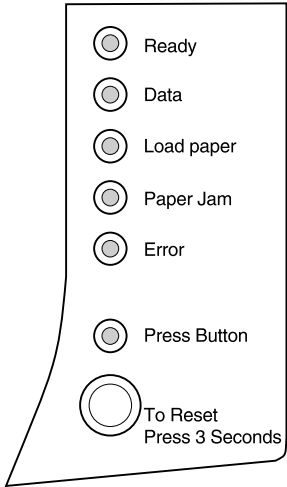


**Then your printer:**

is **Waiting** until a Print Timeout occurs or until additional data is received.

- Print data stored in the printer buffer by pushing the operator panel button with a brief button press or
- reset the printer by pushing the operator panel button with a long button press.

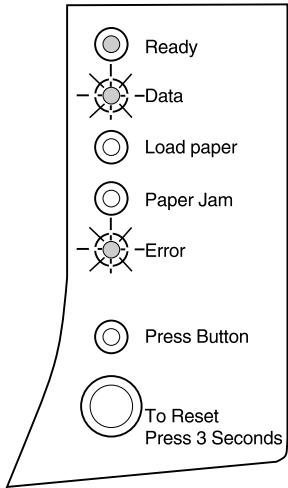
**If your printer lights look like this:**



**Then your printer:**

is **Resetting** settings to their power-on default settings or saving settings changed in Configuration Mode.

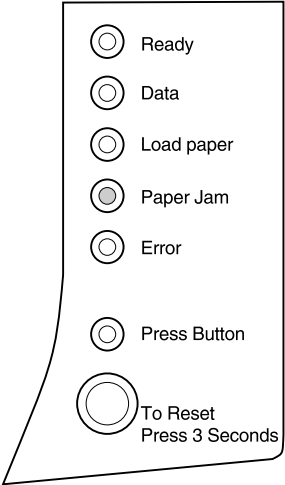
**If your printer lights look like this:**

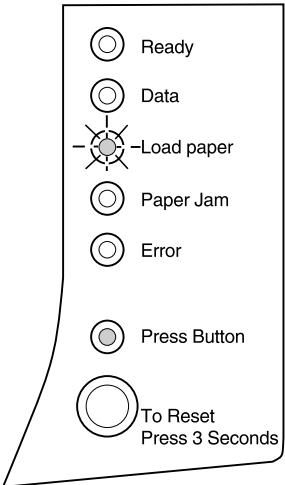


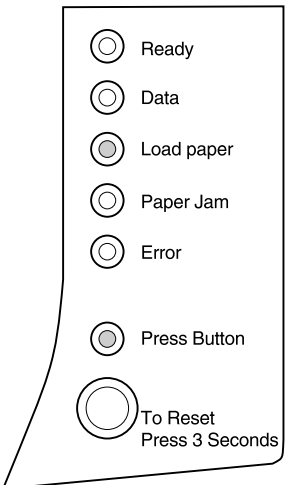
**Then your printer:**

is **Flushing** corrupted print data.

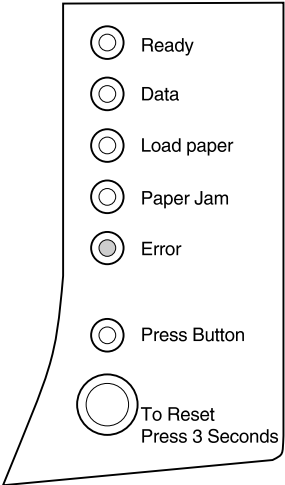
## ***Printer attendance information***

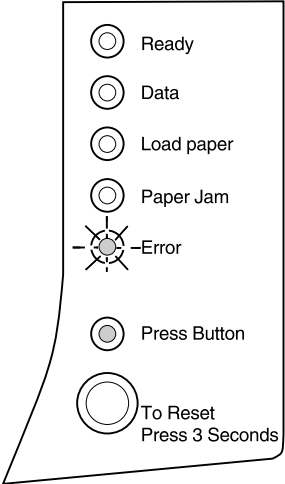
<b>If your printer lights look like this:</b>	<b>Then your printer:</b>
 <p>The diagram shows a vertical column of seven indicator lights. From top to bottom: 'Ready' (unlit), 'Data' (unlit), 'Load paper' (unlit), 'Paper Jam' (lit), 'Error' (unlit), 'Press Button' (unlit), and 'To Reset Press 3 Seconds' (unlit). The 'Paper Jam' light is represented by a circle with a shaded center, indicating it is on.</p>	<p>detects a <b>Paper Jam</b>.</p> <ul style="list-style-type: none"><li>• Open the printer cover, clear all paper from the paper path and close the cover to resume printing.</li></ul>

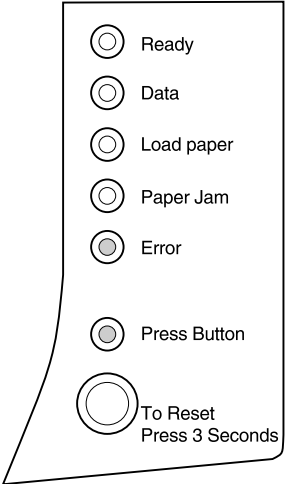
If your printer lights look like this:	Then your printer:
 <p>The diagram shows a control panel with seven indicator lights. From top to bottom: 'Ready' (off), 'Data' (off), 'Load paper' (flashing), 'Paper Jam' (off), 'Error' (off), 'Press Button' (off), and 'To Reset Press 3 Seconds' (off).</p>	<p>is prompting you to load media for <b>manual</b> feed. The printer stops and displays this light sequence for each piece of media you want to print.</p> <ul style="list-style-type: none"> <li>• Load media, with the side to be printed facing the front of the printer, into the manual feeder and push the operator panel button to resume printing, or</li> <li>• reset the printer by pushing the operator panel button with a long button press.</li> </ul>

If your printer lights look like this:	Then your printer:
 <p>The diagram shows a control panel with seven indicator lights. From top to bottom: 'Ready' (off), 'Data' (off), 'Load paper' (flashing), 'Paper Jam' (off), 'Error' (off), 'Press Button' (off), and 'To Reset Press 3 Seconds' (off).</p>	<p>is alerting you that the printer is out of paper/envelopes or that the paper did not feed properly from the automatic paper feeder.</p> <ul style="list-style-type: none"> <li>• Load media into the automatic paper feeder and push the operator panel button to resume printing or</li> <li>• reset the printer by pushing the operator panel button with a long button press.</li> </ul>

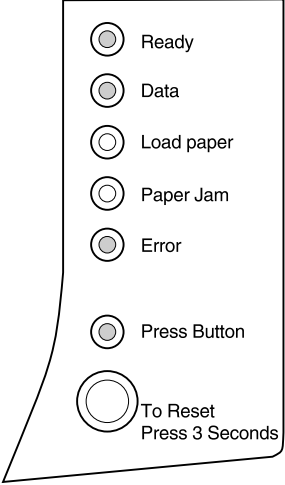


If your printer lights look like this:	Then your printer:
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>top cover is open or the print cartridge is not installed.</p> <ul style="list-style-type: none"> <li>• Close the cover to display the light sequence that appeared before the cover was opened.</li> <li>• Install the print cartridge.</li> </ul>

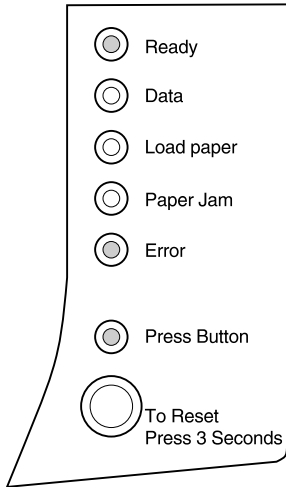
If your printer lights look like this:	Then your printer:
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p><b>flash memory is full (Memory Full)</b></p> <ul style="list-style-type: none"> <li>• Print data without saving it in flash memory by pushing the operator panel button with a brief button press or</li> <li>• reset the front panel by pushing the operator panel button with a long button press.</li> </ul>

If your printer lights look like this:	Then your printer:
 <p>The diagram shows a vertical column of seven circular lights. From top to bottom: <ul style="list-style-type: none"> <li>Ready: An empty circle.</li> <li>Data: An empty circle.</li> <li>Load paper: An empty circle.</li> <li>Paper Jam: An empty circle.</li> <li>Error: A circle with a shaded center.</li> <li>Press Button: A circle with a shaded center.</li> <li>To Reset Press 3 Seconds: A circle with a shaded center.</li> </ul> </p>	<ul style="list-style-type: none"> <li>• <b>memory is full</b>, or</li> <li>• received a page that is too <b>complex</b> to print, or</li> <li>• <b>reduces</b> the resolution of a formatted page to 300 dpi before printing, or</li> <li>• has a <b>PPDS font error</b>, or</li> <li>• doesn't have enough memory to save what is in the buffer (<b>resource save off</b>), or</li> <li>• doesn't have enough memory to defragment flash memory (<b>insufficient defrag memory</b>), or</li> <li>• cannot communicate with the host computer (<b>host interface error</b>).</li> </ul> <p>Each of the errors described above has a unique, secondary error code. Display the secondary error code by double-clicking the operator panel button.</p>

## Secondary Error Codes

If your printer lights look like this when you double-click the operator panel button:	Then your printer:
 <p>The diagram shows a vertical list of seven indicator lights on a printer's operator panel. From top to bottom: 'Ready' (small circle), 'Data' (small circle), 'Load paper' (small circle), 'Paper Jam' (small circle), 'Error' (small circle), 'Press Button' (medium circle), and 'To Reset Press 3 Seconds' (large circle). The 'Ready' light is illuminated with a solid grey fill, while the others are empty circles.</p>	<p>memory is full (<b>Memory Full</b>).</p> <ul style="list-style-type: none"><li>• Reduce the complexity of the job and/or the resolution, or</li><li>• press the operator panel button with a brief button press to resume printing, or</li><li>• reset the printer by pushing the operator panel button with a long button press.</li></ul>

**If your printer lights look like this when you double-click the operator panel button:**

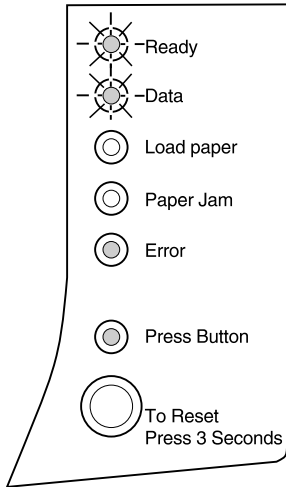


**Then your printer:**

has received a page that is too complex to print (**Complex Page**).

- Switch the printing mode to a different printing mode via the Lexmark driver for Windows, or
- press the operator panel button with a brief button press to resume printing, or
- reset the printer by pushing the operator panel button with a long button press.

**If your printer lights look like this when you double-click the operator panel button:**

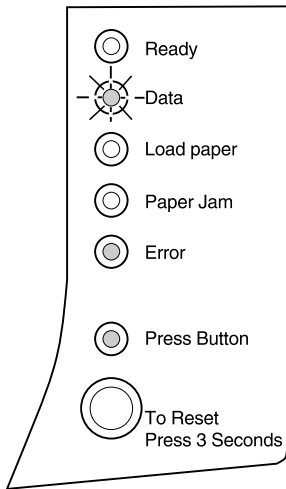


**Then your printer:**

is out of memory while formatting a page and is forced to reduce the resolution to 300 dpi before printing it (**Resolution Reduction Warning**).

- Push the operator panel button to resume printing, or
- reset the printer by pushing the operator panel button with a long button press.

**If your printer lights look like this when you double-click the operator panel button:**



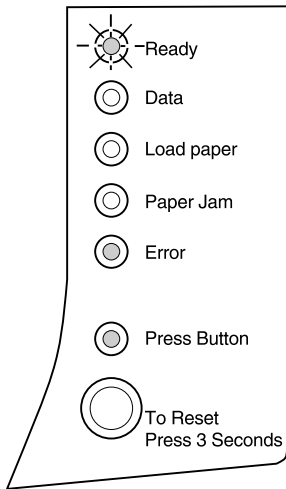
**Then your printer:**

has received a request for a PPDS font which is not installed (**Font Error**).

- Reset the front panel by pushing the operator panel button with a long button press.

**If your printer lights look like this when you double-click the operator panel button:**

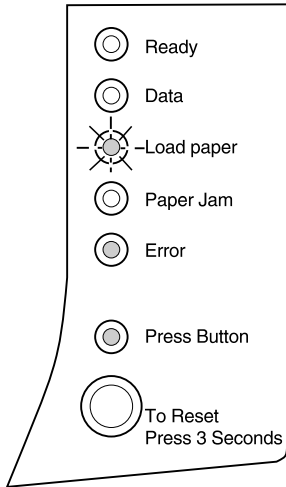
**Then your printer:**



doesn't have enough memory to save what is in the buffer (**Resource Save Off**).

- Install additional memory or
- push the operator panel button to resume printing, or
- reset the front panel by pushing the operator panel button with a long button press.

**If your printer lights look like this when you double-click the operator panel button:**



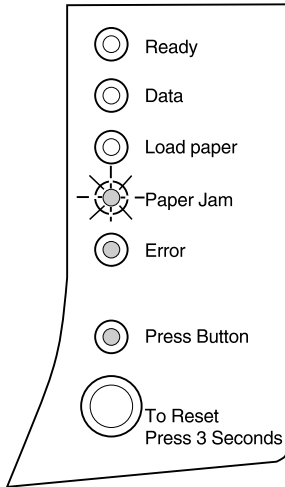
**Then your printer:**

has insufficient memory to free up unused space in flash memory (**Insufficient Defrag Memory**).

- Delete fonts, macros and other data in RAM, or install additional printer memory, then issue a PjL command to begin freeing up unused space in flash memory.



**If your printer lights look like this when you double-click the operator panel button:**



**Then your printer:**

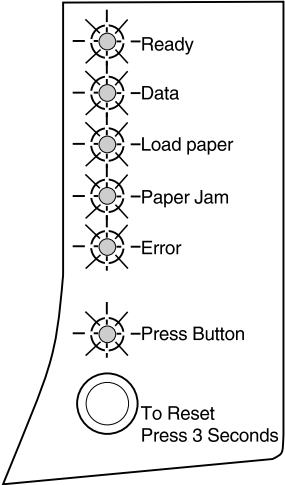
has an error communicating with the host computer (**Host Interface Error**).

This error is displayed if:

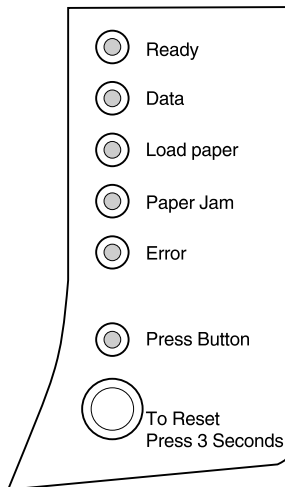
- you have an external network adapter (ENA) connected to your printer, but your printer can't detect it when you first turn the printer on, or
  - the computer attempts to communicate with the printer through the parallel port, but the port setting has been disabled in configuration mode, or
  - the computer attempts to communicate with the printer through the USB port, but the port has been disabled in configuration mode.
- 
- If this error occurs when you turn on the printer, double check that the ENA is still plugged in to the printer.
  - If you want to print through the parallel port, print a menu settings page (see "Printing a test page" on page 11) to verify that the parallel buffer setting is disabled. Re-enable the parallel port in configuration mode (see page 63).
  - If you're printing through the USB port, print a menu settings page (see "Printing a test page" on page 11) to verify that the USB buffer setting is disabled. Re-enable the USB port in configuration mode (see page 70).



## **Printer service information**

If your printer lights look like this:	Then your printer:
	<p>has a service error and printing stops immediately.</p> <p>Turn the printer off and back on. If the lights are still blinking, contact your point of purchase, or call the Lexmark service number listed on your printer registration card.</p>

### **Reset user defaults**



When formatting problems occur or unexpected characters print, try resetting the printer default settings to your user defaults. Press and hold the operator panel button until all indicator lights are on.

Once the default settings are reset, the Ready light comes on.

## **Engine clean cycle**

For print quality problems, such as stray toner marks appearing on the paper, select the Engine Clean Cycle setting to remove any toner that may have accumulated.

- 1 Turn off the printer.**
- 2 Open the top cover.**
- 3 Turn the printer back on.**
- 4 Load paper into the paper feeder.**
- 5 When the Error light comes on, indicating the top cover is open, do a double button press.**
- 6 When the Error light and Press Button light blink, close the cover.**

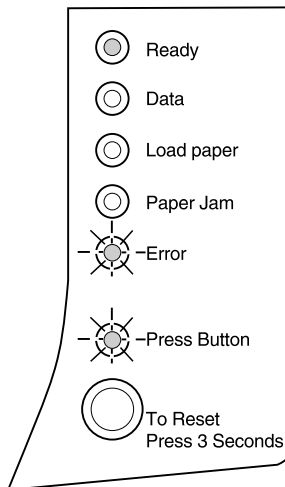
The Special Function Menu is activated.

Engine Clean Cycle is the first menu selection in the Special Function Menu. The operator panel **Ready** light is on solid, the **Error** light is blinking and the **Press Button** light is blinking.

- 7 Do a long button press to start Engine Clean Cycle.**

- a** The printer feeds one sheet of plain paper through the paper path to remove any accumulated toner.
- b** Once the paper exits into the output bin, the printer returns to the **Ready** state.

- 8 If necessary, repeat this process two or three times until all of the excess toner is removed.**



## **Print quality test pages**

To help isolate print quality problems, like streaking, select the Print Quality Test Pages setting.

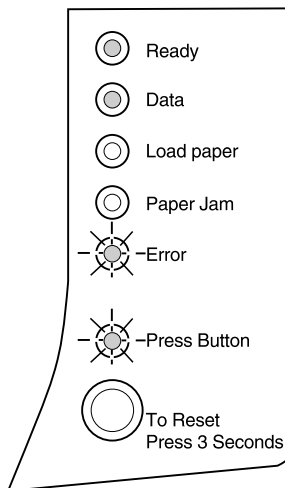
- 1 Turn off the printer.**
- 2 Open the top cover.**
- 3 Turn the printer back on.**
- 4 Load paper into the paper feeder.**
- 5 When the Error light comes on, indicating the top cover is open, do a double button press.**
- 6 When the Error light and Press Button light blink, close the cover.**
- 7 Do a double button press 4 times to scroll down to Print Quality Test Pages.**

The operator panel **Paper Jam** light is on solid, the **Error** light is blinking and the **Press Button** light is blinking.

- 8 Do a long button press to start Print Quality Test Pages.**

- a** Three pages print out to help you evaluate print quality. The first page has registration marks, the second page is gray and the third page is black.
- b** Once the paper exits into the output bin, the printer returns to the **Ready** state.

When you've isolated the problem, i.e., print is too light, toner streaks, etc., refer to the troubleshooting tables beginning on page 35.

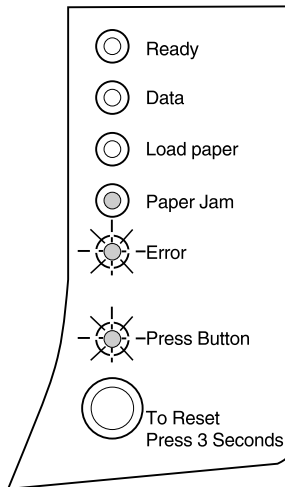


## **Enter Hex Trace mode**

When unexpected characters print or characters are missing, use Hex Trace to help you determine if there is a problem with the language interpreter or the cable. Hex Trace isolates printing problems by telling you what information your printer is receiving.

To enter Hex Trace Mode:

- 1 Turn off the printer.**
- 2 Open the top cover.**
- 3 Turn the printer back on.**
- 4 When the Error light comes on, indicating the top cover is open, do a double button press.**
- 5 When the Error light and Press Button light blink, close the cover.**
- 6 Do a double button press 3 times to scroll down to Enter Hex Trace.**



When the **Enter Hex Trace** setting is selected, the operator panel **Ready** light is on solid, the **Data** light is on solid, the **Error** light is blinking and the **Press Button** light is blinking.

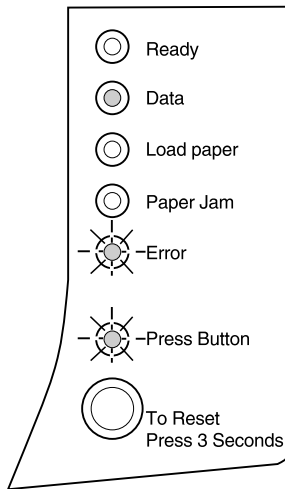
- 7 Do a long button press to start Hex Trace.**

Data sent to the printer is printed out in hexadecimal and character representation to help isolate the source of the problem.

- 8 To exit Hex Trace, turn off the printer or press the operator panel button to reset the printer.**

## Restore factory defaults

If changing the printer user default settings do not solve formatting problems, reset the printer to the original factory default settings.



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**Note:** When you restore factory default settings, all downloaded fonts, macros and symbol sets in printer memory are deleted. (Resources in flash memory are unaffected.)

- 1 Turn off the printer.**
- 2 Open the top cover.**
- 3 Turn the printer back on.**
- 4 Load paper into the paper feeder.**
- 5 When the Error light comes on, indicating the top cover is open, do a double button press.**
- 6 When the Error light and Press Button light blink, close the cover.**
- 7 Do a double button press 1 time to scroll down to Reset Defaults.**

The operator panel **Data** light is on solid, the **Error** light is blinking and the **Press Button** light is blinking.

- 8 Do a long button press to reset the printer to the original factory defaults.**

Once the settings are returned to the factory default values, the printer returns to the **Ready** state.

## ***Before you call for service***

If you can't solve your printer problems, it's time to call for service. Before you call, however, check the following:

- Is the power cord plugged into the printer?
- Is the power cord plugged directly into a properly grounded wall outlet?
- Is your printer properly connected to your computer?
- Are all other devices attached to your printer plugged in and turned on?
- Is the wall outlet turned off by any switches?
- Did a fuse blow?
- Has a power outage occurred in your area?
- Is a print cartridge installed in your printer?
- Is the printer cover closed completely?

Once you've checked these things, turn your printer off and back on again. If your printer is still not operating properly, call the Lexmark service number listed on the printer registration card or contact your point of service.

If the Ready indicator light is on, briefly press the operator panel button to print a test page. It lists your printer model, printer memory installed and your user default settings. The service representative will probably ask for this information.



# Supplies

## 5

Within the U.S. or Canada, you can order Lexmark supplies from any Lexmark Authorized Supplies Dealer. To locate the dealer nearest you, call the number on the printer registration card that came with your printer. In other countries, contact the place where you bought your printer.

### Print cartridge maintenance

To get the maximum benefit from your print cartridge:

- Do not remove the print cartridge from its packaging until you are ready to install it.
- Do not refill print cartridges. **The printer warranty does not cover damage caused by using refilled cartridges.**
- Store print cartridges in the same environment as the printer.
- Do not remove a print cartridge from the printer except to replace it or to clear a paper jam.



## Troubleshooting Tips

<b>Problem</b>	<b>Action</b>
Characters appear light or blurred.	<ul style="list-style-type: none"><li>• Make sure you removed the sealing tape from the print cartridge.</li><li>• Replace the print cartridge.</li></ul>
Printer seems to be printing, but pages are blank.	<ul style="list-style-type: none"><li>• The print cartridge may be out of toner. Replace the cartridge.</li><li>• The print cartridge may be defective. Replace the cartridge.</li><li>• Make sure you removed the sealing tape from the print cartridge.</li></ul>
Printer is on, but nothing prints. Jobs are not printing and the Error light is on solid.	<ul style="list-style-type: none"><li>• Make sure the print cartridge is installed.</li></ul>

### ***Recycling used supplies***

Lexmark's Operation ReSource<sup>SM</sup> program lets you participate in worldwide recycling at no cost to you.

Some shipping cartons have printed instructions for participating in Operation ReSource. Other supplies come packaged with a prepaid shipping label that you may use in the specified country. If the shipping label is not appropriate for your country, or if you need additional recycling instructions, contact the place where you bought your printer.





# Printer specifications

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## Printer features

- Prints up to 8 pages per minute
- 600 and 300 dpi print resolutions
- 1200 Image Quality
- PostScript Level 2 emulation standard
- PCL 6 and PCL 5e emulations standard
- 45 LaserJet-compatible scalable fonts
- 39 Optra-compatible scalable fonts plus 36 additional PostScript scalable fonts
- 150-sheet automatic paper input tray and a single-sheet manual input tray
- 100-sheet paper output tray and a single-sheet output door
- 2MB printer memory
- 4MB, 8MB, 16MB, 32MB and 64MB memory options for 66MB maximum memory expansion
- 1MB, 2MB and 4MB flash memory options
- USB capability
- Single element print cartridge for easy, clean-hands installation

## **Printer dimensions**

Height:	8.8" (224mm)
Width:	13.6" (345mm)
Depth:	14.4" (365mm)
Weight:	16.5 lbs (7.5kg) with print cartridge

# B

# Advanced troubleshooting

If you contact the Lexmark Technical Support Center to help you resolve a printing problem, they may guide you through configuration mode to change a default setting (i.e., turning on the PPDS Activated setting if your job application uses the PPDS datastream).

Use the operator panel or the MarkVision remote operator panel to set or change specific printer functions in configuration mode.

The following settings may be selected while in configuration mode:

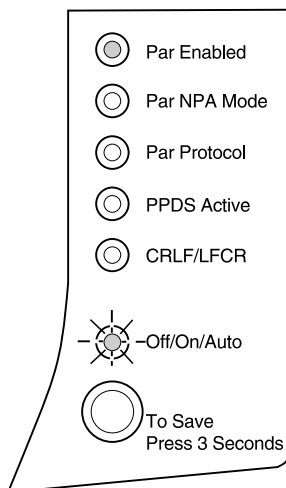
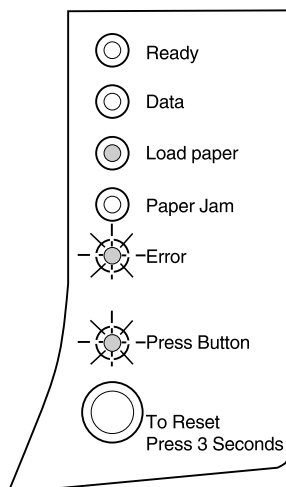
- Parallel Port Settings
  - Enable Port
  - NPA Mode
  - Protocol
  - Mode 1
  - Mode 2
  - Strobe Adjust
- USB Settings
  - Enable Port
  - NPA Mode
- PPDS Activated
- Auto LFCR after CRLF

To enter configuration mode you must be in the Special Function Menu:

- 1 Turn off the printer.**
- 2 Open the top cover.**
- 3 Turn the printer back on.**
- 4 When the Error light comes on, indicating the top cover is open, do a double button press.**
- 5 When the Error light and Press Button light blink, close the cover.**
- 6 Do a double button press twice to scroll down to Enter Configuration Mode.**

When the **Enter Configuration Mode** setting is selected, the operator panel **Load Paper** light is on solid, the **Error** light is blinking and the **Press Button** light is blinking.

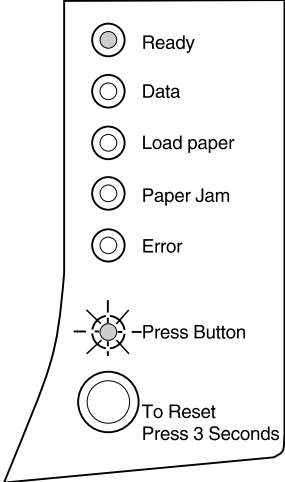
- 7 Do a long button press to initiate Configuration Mode.**

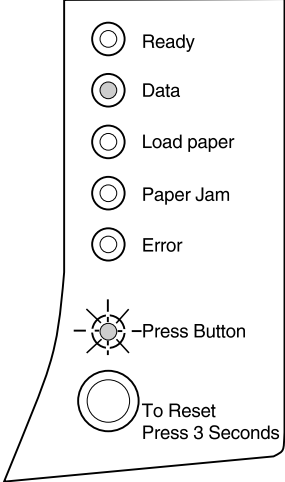


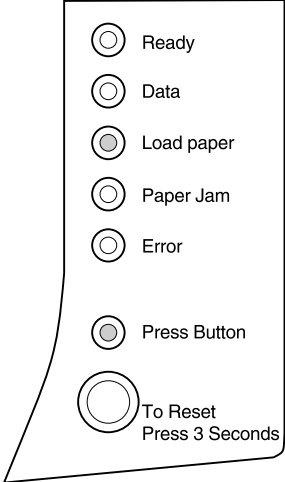
This illustration represents the operator panel settings in configuration mode when an indicator light is on solid.

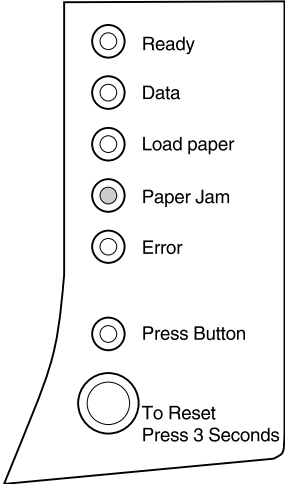
When the printer is in configuration mode, the indicator lights take on new meanings based on their function. The following tables describe the function of each of these settings.

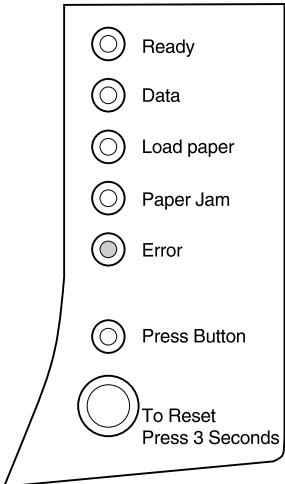


If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
	<p>Parallel Port Enabled setting is set to Auto, the factory default.</p> <p>If your printer encounters a memory shortage when trying to print a job and you are not using the parallel port, turn off Parallel Port Enabled to free up a little more memory.</p> <p>There are three settings for Parallel Port Enabled: Off, On and Auto.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (Off, On, Auto) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, NPA Mode (Parallel).</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Auto</p>

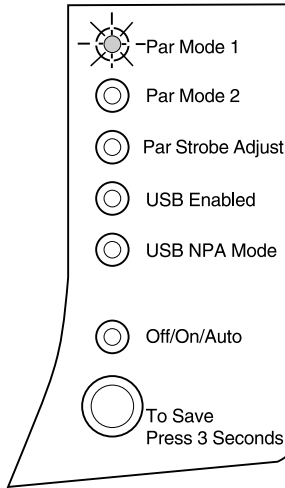
If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
	<p>Parallel NPA Mode setting is set to Auto, the factory default.</p> <p>When NPA Mode is enabled, your computer can send print jobs to the printer and query printer status information simultaneously.</p> <p>There are three settings for NPA Mode (Parallel): Off, On and Auto.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (Off, On, Auto) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, Parallel Protocol.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<ul style="list-style-type: none"> <li>• Auto</li> </ul>

If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>Parallel Protocol setting is set to Fastbytes, the factory default.</p> <p>When the protocol is set to Fastbytes, the printer receives information at a much faster transmission rate, provided the host computer supports Fastbytes.</p> <p>When the protocol is set to Standard, the printer receives information at a normal transmission rate. The Press Button light is off when Parallel Protocol is set to Standard.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to change the setting (Fastbytes, Standard).</li> <li>• Do a double button press to scroll to the next menu item, PPDS Activated.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Fastbytes</p>

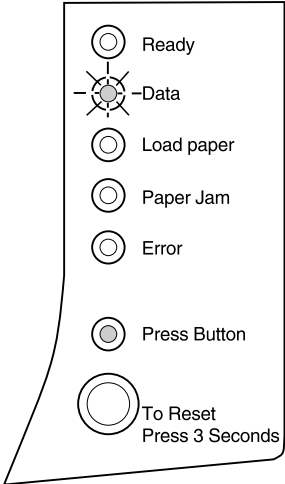
If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
	<p>PPDS Activated setting is off, the factory default.</p> <p>Turn PPDS Activated on when working in applications using the PPDS datastream.</p> <p>There are two settings for PPDS Activated: On and Off.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to change the setting (On, Off).</li> <li>• Do a double button press to scroll to the next menu item, Auto CRLF/LFCR.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Off</p>

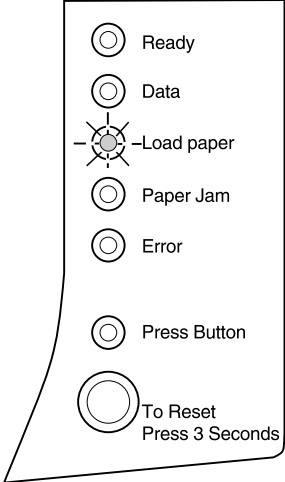
If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
<p><b>CRLF/LFCR</b></p>  <p>The diagram shows a vertical column of seven indicator lights on a printer's control panel. From top to bottom, they are: Ready, Data, Load paper, Paper Jam, Error, Press Button, and To Reset Press 3 Seconds. Each light is represented by a circle with a smaller circle inside, indicating it is currently off.</p>	<p>Auto CRLF/LFCR setting is off, the factory default.</p> <p>How the printer formats the end of a line depends on the computer system being used. Use this setting to select whether or not the printer automatically performs a carriage return (CR) after a line feed or a line feed (LF) after a carriage return (CR).</p> <ul style="list-style-type: none"> <li>• If the Press Button light is off, Auto CR after LF is Off and Auto LF after CR is Off</li> <li>• If the Press Button light is on, Auto CR after LF is On and Auto LF after CR is Off</li> <li>• If the Press Button light is blinking, Auto CR after LF is Off and Auto LF after CR is On</li> </ul> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, Parallel Mode 1.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Off</p>

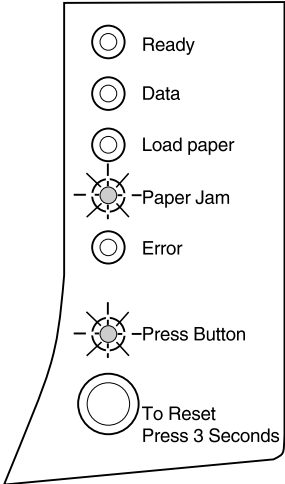
This illustration represents the operator panel settings in configuration mode when an indicator light is blinking. The following tables describe the function of each setting.



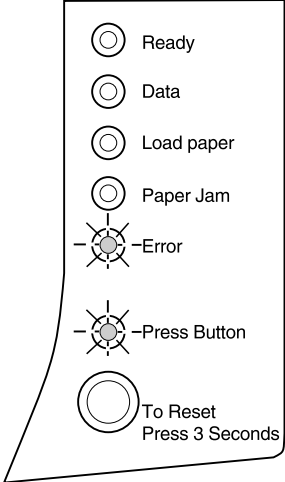
If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
	<p>Parallel Mode 1 setting is on, the factory default.</p> <p>This setting enables or disables the pull up resistors on the parallel port signals. It is useful for personal computers that have open collector outputs on the parallel port signals. Set Parallel Mode 1 On to disable the resistors or Off to enable the resistors.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (On, Off) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, Parallel Mode 2.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>On</p>

If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>Parallel Mode 2 setting is on, the factory default.</p> <p>This setting determines if the parallel port data is sampled on the leading or trailing edge of strobe. If Parallel Mode 2 is set On, the parallel port data is sampled on the leading edge of strobe. The parallel port data is sampled on the trailing edge of strobe if Parallel Mode 2 is set Off.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (On, Off) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, Parallel Strobe Adjust.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>On</p>

If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>Parallel Strobe Adjust setting is off (0), the factory default. This setting lets you increase the amount of time strobe is sampled to determine that valid data is available on the parallel port.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (Off=0, On=+1, Auto=+2) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, USB Port Enabled.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>0</p>

If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>USB Port Enabled setting is set to Auto, the factory default.</p> <p>The Universal Serial Bus (USB) lets you connect a variety of devices, i.e., a printer, to your computer with a single cable.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (Off, On, Auto) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, USB NPA Mode.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Auto</p>




If your printer lights look like this in configuration mode:	Then your printer:	Factory Default
 <p>Ready</p> <p>Data</p> <p>Load paper</p> <p>Paper Jam</p> <p>Error</p> <p>Press Button</p> <p>To Reset Press 3 Seconds</p>	<p>USB NPA Mode setting is set to Auto, the factory default.</p> <p>When USB NPA Mode is enabled, your computer can send print jobs to the printer and query printer status information simultaneously.</p> <ul style="list-style-type: none"> <li>• Do a brief button press to scroll through the settings (Off, On, Auto) for this menu item.</li> <li>• Do a double button press to scroll to the next menu item, Parallel Port Enabled.</li> <li>• Do a long button press to select and save a setting for this menu. As the setting is saved, all operator panel indicator lights remain on for approximately 2 seconds.</li> </ul> <p>Turn off the printer to exit Configuration Mode.</p>	<p>Auto</p>






# 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.

## Consignes de sécurité


- Si le symbole  n'apparaît PAS sur votre produit, ce dernier DOIT être branché sur une prise de courant mise à la terre.
- Le câble d'alimentation doit être connecté à une prise de courant placée près du produit et facilement accessible.
- L'entretien et les réparations autres que ceux décrits dans les instructions d'emploi doivent être effectués par le personnel de maintenance qualifié.
- Ce produit a été conçu, testé et approuvé pour respecter les normes strictes de sécurité globale lors de l'utilisation de composants Lexmark spécifiques. Les caractéristiques de sécurité de certains éléments ne sont pas toujours évidentes. Lexmark ne peut être tenu responsable de l'utilisation d'autres pièces de rechange.

- Le produit utilise un laser : **ATTENTION : Les commandes, les réglages et l'exécution de toute autre procédure que celle indiquée dans le présent document peuvent entraîner des risques de radiations.**
- Le produit utilise un système d'impression qui chauffe le support d'impression duquel peuvent alors se dégager des émissions. Vous devez consulter les directives générales dans la section appropriée des instructions d'emploi pour savoir comment empêcher que ces émissions ne se produisent.


## Norme di sicurezza

- Se il prodotto NON è contrassegnato con questo simbolo , DEVE essere collegato lo stesso ad una presa elettrica con messa a terra.
- Il cavo di alimentazione deve essere collegato ad una presa elettrica posta nelle vicinanze del prodotto e facilmente raggiungibile.
- Per la manutenzione o le riparazioni, escluse quelle descritte nelle istruzioni operative, consultare il personale di assistenza autorizzato.
- Il prodotto è stato progettato, testato e approvato in conformità a severi standard di sicurezza e per l'utilizzo con componenti Lexmark specifici. Le caratteristiche di sicurezza di alcune parti non sempre sono di immediata comprensione. Lexmark non è responsabile per l'utilizzo di parti di ricambio di altri produttori.
- Poiché il prodotto in questione utilizza il laser, considerare il seguente avvertimento: **ATTENZIONE: L'uso di dispositivi di controllo o di regolazione, o l'esecuzione di procedure non incluse tra quelle descritte in questa documentazione, può provocare una pericolosa esposizione alle radiazioni.**
- Il prodotto in questione utilizza un processo di stampa che riscalda i supporti di stampa; il calore generato può determinare l'emissione di sostanze dannose da parte dei supporti. Leggere attentamente la sezione riportata nelle istruzioni riguardante le operazioni di selezione dei supporti di stampa in modo da evitare la possibilità di emissioni dannose.


## Sicherheitshinweise

- Falls der Drucker nicht mit diesem Symbol  markiert ist, muß er an eine ordnungsgemäß geerdete Steckdose angeschlossen werden.
- Das Netzkabel muß an eine Steckdose angeschlossen werden, die sich in der Nähe des Geräts befindet und leicht zugänglich ist.
- Wartungsarbeiten und Reparaturen, mit Ausnahme der in der Betriebsanleitung näher beschriebenen, sollten Fachleuten überlassen werden.
- Dieses Produkt und die zugehörigen Komponenten wurden entworfen und getestet, um beim Einsatz die weltweit gültigen Sicherheitsanforderungen zu erfüllen. Die sicherheitsrelevanten Funktionen der Bauteile und Optionen sind nicht immer offensichtlich. Sofern Teile eingesetzt werden, die nicht von Lexmark sind, wird von Lexmark keinerlei Verantwortung oder Haftung für dieses Produkt übernommen.
- Dieses Produkt verwendet einen Laser. Wenden Sie daher besondere **VORSICHT an: Die Verwendung von Kontrollen bzw. die Regulierung von Vorgängen mit Ausnahme derjenigen, die in dieser Betriebsanleitung behandelt werden, kann Sie gefährlicher Bestrahlung aussetzen.**
- Dieses Produkt verwendet ein Druckverfahren, bei dem das Druckmedium erhitzt wird. Diese Erwärmung kann zu einer Freigabe von Emissionen des Druckmediums führen. Es ist daher wichtig, daß Sie in der Betriebsanleitung den Abschnitt, der sich mit der Auswahl geeigneter Druckmedien befaßt, sorgfältig durchlesen und die dort aufgeführten Richtlinien befolgen, um der Gefahr schädlicher Emissionen vorzubeugen.

## Pautas de Seguridad

- Si su producto NO tiene este símbolo, , es IMPRESCINDIBLE conectarlo a una toma de corriente eléctrica con toma de tierra correcta.
- El cable de alimentación deberá conectarse a una toma de corriente situada cerca del producto y de fácil acceso.
- Cualquier servicio o reparación deberá realizarse por parte del personal cualificado, a menos que se trate de las averías descritas en las instrucciones de utilización.
- Este producto se ha diseñado, verificado y aprobado para cumplir los más estrictos estándares de seguridad global usando los componentes específicos de Lexmark. Puede que las características de seguridad de algunas piezas no sean siempre evidentes. Lexmark no se hace responsable del uso de otras piezas de recambio.
- El producto utiliza un láser. Actúe con **PRECAUCION: El uso de los controles o ajustes o el llevar a cabo procedimientos distintos a los especificados aquí puede causar niveles de radiación peligrosos.**
- Durante el proceso de impresión que utiliza este producto se calienta el medio de impresión, y el calor puede provocar que el medio emita gases. Para evitar emisiones peligrosas, el usuario deberá comprender y seguir lo expuesto en la sección de las instrucciones de utilización donde se describen las directrices para seleccionar el medio de impresión.


## Veiligheidsvoorschriften

- Zorg ervoor dat uw product is aangesloten op een geaard stopcontact als het product NIET is gemarkeerd met det symbool .
- Het netsnoer moet worden aangesloten op een gemakkelijk bereikbaar stopcontact in de buurt van het product.
- Neem contact op met een professionele onderhoudstechnicus voor onderhoud en reparaties die niet in de bij het product geleverde instructies beschreven worden.
- Dit product is ontworpen, getest en goedgekeurd om te voldoen aan strenge internationale veiligheidsvoorschriften. De veiligheidsvoorzieningen van bepaalde onderdelen zullen niet altijd duidelijk zichtbaar zijn. Lexmark is niet verantwoordelijk voor het gebruik van andere vervangende onderdelen.
- Uw product maakt gebruik van een laser, wees **VOORZICHTIG: Instellen van het controlepaneel of, aanpassingen of uitvoering van procedures op andere wijze dan hier is gespecificeerd kunnen leiden tot blootstelling aan gevaarlijke straling.**
- Uw product gebruikt een afdrukproces waarbij het afdrukmetaal verhit raakt. Hierdoor kan straling vrijkomen. Lees het gedeelte in de bij het product geleverde instructies, waarin richtlijnen voor de keuze van afdrukmetaal worden beschreven, zorgvuldig door, zodat u mogelijke schadelijke straling kunt voorkomen.

## Sikkerhedsoplysninger


- Hvis dit produkt IKKE er markeret med dette symbol , SKAL det sluttes til en stikkontakt med jordforbindelse.
- Ledningen skal sluttes til en stikkontakt, der er tæt på produktet og som er let tilgængelig.
- Service og reparationer, som ikke er beskrevet i brugsanvisningen, skal udføres af en kvalificeret tekniker.
- Dette produkt er udviklet, testet og godkendt i overensstemmelse med Lexmarks verdensomspændende standarder for sikkerhed. Delenes sikkerhedsfunktioner kan være skjulte. Lexmark påtager sig intet ansvar for brugen af uoriginale reservedele.
- Dit produkt bruger en laser og du skal være **FORSIGTIG: Brug af styremekanismer, indstillinger eller fremgangsmåder, som ikke er beskrevet her, kan resultere i farlig radioaktiv bestråling.**
- Produktet benytter en udskrivningsproces, der opvarmer skrivemediet og denne varme kan føre til at udskriftmedier afgiver dampe. Det er vigtigt at du forstår den del af brugsanvisningen, der omhandler valg af udskriftsmedium, så du kan undgå farlige dampe.

## Sikkerhetsinformasjon


- Hvis produktet ditt ikke er merket med dette symbolet, , må det bare kobles til en stikkontakt som er jordnet.

- Ledningen må være koblet til en stikkontakt nær produktet. Stikkontakten må være lett tilgjengelig.
- La bare kvalifisert personale ta seg av service og reparasjon som ikke er direkte beskrevet i bruksanvisningen.
- Dette produktet er utviklet, testet og godkjent i overensstemmelse med strenge verdensomspennende sikkerhetsstandarder for bestemte Lexmark-deler. Delenes sikkerhetsfunksjoner kan være skjulte. Lexmark er ikke ansvarlig for bruk av uoriginale reservedeler.
- Produktet ditt bruker en laser.  
**ADVARSEL: Bruk av styremekanismer, innstillinger eller fremgangsmåter som ikke er beskrevet her, kan resultere i farlig utstråling.**
- Produktet ditt bruker en utskriftsprosess som varmer opp skrivemediet, og varmen kan føre til utslipp. Forsikre deg om at du forstår den delen av bruksanvisningen som omhandler valg av utskriftsmedium, slik at du kan unngå farlige utslipp.

## Säkerhetsanvisningar


- Om produkten INTE är märkt med denna symbol  MÅSTE den anslutas till ett jordat vägguttag.
- Nätkabeln måste anslutas till ett lättåtkomligt vägguttag i närheten av maskinen.
- Låt endast utbildad servicepersonal utföra sådan service och sådana reparationer som inte beskrivs i handledningen.
- Denna produkt är utformad, testad och godkänd för att uppfylla internationella säkerhetsbestämmelser när den används tillsammans med andra Lexmark-produkter. Säkerhetsegenskaperna för vissa delar är inte helt uppenbara. Lexmark fransäger sig ansvaret om delar av ett annat fabrikat används.
- Var försiktig - maskinen använder laser.  
**VARNING! Det finns risk att du utsätter dig för hälsovadlig strålning om du använder andra reglage eller justeringar, eller om du utför andra procedurer än de som beskrivs här.**
- Maskinen använder en utskriftsmetod som upphettar utskriftsmaterialet. Hettan kan i vissa fall leda till att materialet avger partiklar. Undvik skadliga partiklar genom att noga läsa det avsnitt i handledningen som beskriver hur man väljer utskriftsmaterial.

## Informació de Seguretat


- Si el vostre producte NO està marcat amb el símbol , S'HAURÀ de connectar a una presa elèctrica de terra.
- El cable de potència s'haurà de connectar a una presa de corrent propera al producte i fàcilment accessible.
- Si heu de fer una reparació que no figuri entre les descrites a les instruccions de funcionament, confieu-la a un professional.
- Aquest producte està dissenyat, comprovat i aprovat per tal d'acomplir les estrictes normes de seguretat globals amb la utilització de components específics de Lexmark. Les característiques de seguretat d'algunes peces pot ser que no sempre siguin òbvies. Lexmark no es responsabilitza de l'us d'altres peces de recanvi.

- El vostre producte funciona amb un làser. Procediu amb **PRECAUCIÓ: La utilització de controls, els ajustaments o la realització de procediments distints dels especificats aquí poden donar lloc a una exposició a radiacions perillosa.**
- El vostre producte fa servir un procediment d'impressió que escalfa el mitjà d'impressió, i la calor pot fer que aquest mitjà alliberi emissions. Llegiu atentament l'apartat de les instruccions de funcionament on s'exposen les directrius de selecció del mitjà d'emissió per tal d'evitar la possibilitat d'emissions nocives.


## Turvaohjeet

- Jos tuotteessa ei ole tätä tunnusta, , sen saa kytkeä vain maadoitettuun pistorasiaan.
- Tuotteen verkkojohto on kytkettävä sitä lähellä olevaan pistorasiaan. Varmista, että kulku pistorasian luo on esteetön.
- Muut kuin käyttöohjeissa mainitut huolto- tai korjaustoimet on jätettävä huoltoedustajalle.
- Tämä tuote on testattu ja hyväksytty. Se täyttää korkeat maailmanlaajuiset turvallisuusvaatimukset, kun siinä käytetään tiettyä Lexmarkin valmistusosia. Joidenkin osien turvallisuusominaisuudet eivät aina ole itsestään selviä. Lexmark ei vastaa muiden kuin alkuperäisten osien käytöstä.
- Laite sisältää lasertuotteen.  
**Varoitus: Muiden kuin tässä mainittujen säätöjen tai toimien teko voi saattaa käyttäjän alttiiksi vaaralliselle säteilylle.**
- Tulostusmateriaali kuumenee tulostusprosessin aikana. Lämmön vaikutuksesta materiaalista saattaa irrota haitallisia aineita. Voit välttää haitalliset päästöt noudattamalla käyttöohjeissa annettuja tulostusmateriaalien valintaohjeita.


## Informações de Segurança

- Se o produto NÃO estiver marcado com este símbolo, , é necessário ligá-lo a uma tomada com ligação à terra.
- O cabo deve ser ligado a uma tomada localizada perto do produto e facilmente acessível.
- Para todos os serviços ou reparações não referidos nas instruções de operação, deve contactar um técnico dos serviços de assistência.
- Este produto foi concebido, testado e aprovado para satisfazer os padrões globais de segurança na utilização de componentes específicos da Lexmark. As funções de segurança de alguns dos componentes podem não ser sempre óbvias. A Lexmark não é responsável pela utilização de outros componentes de substituição.
- O produto utiliza raios laser, tome **CUIDADO: O uso de controlos, ajustamentos ou a execução de procedimentos diferentes dos especificados podem ocasionar exposição perigosa a radiações.**
- O produto utiliza um processo de impressão que aquece os materiais de impressão. Devido ao aquecimento, estes podem libertar emissões radioactivas. É necessário compreender as instruções de operação relativas à escolha dos materiais de impressão a fim de evitar emissões perigosas.


## Informações de Segurança

- Se o produto NÃO estiver marcado com este símbolo, , ele DEVE SER conectado a uma tomada elétrica com ligação à terra.
- O cabo de alimentação deve ser conectado a uma tomada elétrica localizada perto do produto e de fácil acesso.
- Para todos os serviços ou reparações não descritos nas instruções de operação, entre em contato com um técnico dos serviços de assistência.
- Este produto está projetado, testado e aprovado para satisfazer os padrões globais de segurança para uso de componentes específicos da Lexmark. Os recursos de segurança de alguns componentes podem não ser sempre óbvios. A Lexmark não é responsável pelo uso de outros componentes de substituição.
- O produto usa raios laser, tome **CUIDADO: O uso de controles, ajustes ou a execução de procedimentos diferentes dos especificados podem resultar em exposição perigosa a radiações.**
- O produto usa um processo de impressão que aquece o meio de impressão. Devido ao aquecimento, o meio pode liberar emissões. É necessário que você entenda as instruções de operação sobre a escolha do meio de impressão, para evitar emissões perigosas.

## Информация по технике безопасности

- Если приобретенное Вами изделие НЕ имеет маркировки , то его НЕОБХОДИМО подключать к надежно заземленной розетке.
- Кабель питания следует подключать к легкодоступной электрической розетке, расположенной вблизи от места установки изделия.
- Операции по обслуживанию и ремонту, за исключением описанных в настоящем Руководстве, должны выполняться специально обученным персоналом.
- Данное изделие спроектировано, испытано и прошло аттестацию на соответствии жестким глобальным стандартам безопасности в расчете на использование определенных частей производства фирмы Lexmark. Влияние отдельных деталей на безопасность не всегда очевидно. Фирма Lexmark не несет ответственности за использование запасных частей, отличных от рекомендованных.
- Если в изделии используется лазер: **ОСТОРОЖНО! Регулировка или выполнение любых других операций, кроме указанных в настоящем документе, могут привести к опасному воздействию излучения.**
- При печати на приобретенном Вами изделии происходит нагрев бумаги, что может привести к выделению из нее паров. Чтобы избежать воздействия вредных веществ, изучите раздел руководства по эксплуатации, в котором обсуждается вопрос выбора бумаги.

## Przepisy bezpieczeństwa

Jeżeli produkt NIE jest oznaczony symbolem , może być podłączony TYLKO do prawidłowo uziemionego gniazda elektrycznego.

Kabel zasilający musi być podłączony do łatwo dostępnego gniazda elektrycznego, znajdującego się w pobliżu urządzenia.

Wszelkie naprawy i czynności serwisowe, oprócz opisanych w instrukcji obsługi, powinny być wykonywane przez autoryzowany serwis.


Produkt został zaprojektowany z wykorzystaniem określonych podzespołów firmy Lexmark i zatwierdzony jako spełniający światowe standardy bezpieczeństwa. Pozostałe podzespoły mogą nie spełniać tych warunków. Firma Lexmark nie ponosi odpowiedzialności za skutki używania innych części zamiennych.

Produkt wykorzystuje laser.


**UWAGA:** Regulowanie, ustawianie i wykonywanie czynności innych niż tu określone, może narazić na ryzyko szkodliwego napromieniowania.

Proces drukowania związany jest z podgrzewaniem nośnika, co może spowodować emisję związków chemicznych. Aby zmniejszyć ryzyko emisji szkodliwych substancji, należy zapoznać się ze wskazówkami dotyczącymi wyboru nośnika, zawartymi w odpowiednim rozdziale Instrukcji użytkownika.


## Güvenlik Bilgisi

- Ürünüze  simgesi YOKSA, ürün doğru biçimde topraklanmış bir elektrik prizine TAKILMALIDIR.
- Güç kablosu, ürünün yakınında ve kolay ulaşılabilir bir elektrik prizine takılmalıdır.
- İşletim yönergelerinde açıklananlar dışında servis veya onarım için yetkili servis personeline başvurun.
- Bu ürün, özel Lexmark bileşenlerinin kullanımı konusundaki genel güvenlik standartlarına uyacak biçimde tasarlanmış, denenmiş ve onaylanmıştır. Bazı parçaların güvenlik özellikleri her zaman kesin olmaz. Lexmark, başka yedek parçaların kullanımından sorumluluk taşımaz.
- Ürünüze lazer kullanılmaktadır, **DİKKAT: Burada belirtilenler dışında denetimler veya ayarlamalar veya yordam uygulamaları yaptığınız takdirde, beklenmedik radyasyon yayılımına yol açabilirsiniz.**
- Ürünüze, üzerine baskı yaptığınız malzemeyi ısıtan bir yazdırma süreci kullanılmaktadır ve ısı, üzerine baskı yaptığınız malzemenin emisyonu bırakmasına neden olabilir. İşletim yönergelerinizde, zararlı emisyon olanağını engellemek üzere üzerine baskı yapılacak malzemeyi seçme konusundaki ana hatları içeren bölümü dikkatli biçimde okuyunuz.

## 安全のためのご案内

- ・ ご使用の製品にこの  記号がついていない場合は、正しく接地（アース）してある電源コンセントに接続する必要があります。
- ・ 電源コンセントは、接続の邪魔となるような物がない近くの電源コンセントに接続してください。
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- ・ 如果您的产品没有  符号，所接的电源插座一定要有适当的接地处理。
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- ・ 有关维护或修理方面的细节，除了参考操作说明以外，还可联络专业服务人员。
- ・ 本产品使用特有的 Lexmark 元件，并依照严格的世界安全标准来设计、测试及验证。有些零件的安全功能可能不明显。对于其他厂牌更换零件的使用，Lexmark 概不负责。
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请注意：进行本文未曾提到的控制、调整或程序执行，可能会产生具有危险性的辐射。
- ・ 产品的列印过程会使列印媒体的温度上升，而温度上升将导致媒体产生释出物。请详读操作说明中有关列印媒体的选择一节，避免产生有害的释出物。

## 안전 사항

- 제품에  심볼이 표시되어 있지 않은 경우 제품을 적절히 접지되어 있는 전기 콘센트에 연결하여야 합니다.
- 전원 코드는 제품 가까이에 있고 쉽게 접근할 수 있는 콘센트에 연결하십시오.
- 운영 지침서에 기술되어 있지 않은 서비스나 수리는 전문 서비스 기술자에게 의뢰하십시오.
- 본 제품은 특정 Lexmark 구성 요소의 사용에 있어 엄격한 세계 안전 표준에 맞도록 설계, 테스트되었으며 승인받았습니다. 일부 부품의 안전성은 항상 보장되지 않습니다. Lexmark는 다른 교체 부품의 사용에 대한 책임을 지지 않습니다.
- 본 제품은 레이저를 사용하고 있으므로 다음 사항에 주의하십시오.  
주의: 본 설명서에 명시된 절차를 따르지 않거나 임의로 조정 또는 조절을 할 경우 매우 위험한 방사에 노출될 수 있습니다.
- 제품은 프린트 과정시 인쇄 매체를 가열시키기 때문에 열로 인해 매체에서 방사가 일어날 수 있습니다. 이러한 위험한 방사를 피하려면 운영 지침서 중 인쇄 매체 선택 방법을 설명한 부분을 숙지하도록 하십시오.



# Notices



## Energy Star



The EPA ENERGY STAR Computers program is a partnership effort with computer manufacturers to promote the introduction of energy-efficient products and to reduce air pollution caused by power generation.

Companies participating in this program introduce personal computers, printers, monitors, or fax machines that power down when they are not being used. This feature will cut the energy used by up to 50 percent. Lexmark is proud to be a participant in this program.

As an Energy Star Partner, Lexmark International, Inc. has determined that this product meets the Energy Star guidelines for energy efficiency.

## German acoustics statement

The following measurements were made in accordance with ISO 7779 and reported in conformance with ISO 9296.

### Acoustics

1-Meter Average Sound Pressure, dBa	
Printing	47 dBa
Idling	30 dBa

## Electronic emissions notices

Electronic emission information for your printer varies, depending on whether or not you have an optional network adapter installed.

### *Without a network adapter installed*

### Federal Communications Commission (FCC) compliance information statement

The Optra E laser printer, type 855, has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The FCC Class B limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your point of purchase or service representative for additional suggestions.

The manufacturer is not responsible for any radio or television interference caused by using other than recommended cables or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate this equipment.

To assure compliance with FCC regulations on electromagnetic interference for a Class B computing device, use a properly shielded and grounded cable such as Lexmark part number 1329605. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Any questions regarding this compliance information statement should be directed to:

Director of Lab Operations  
Lexmark International, Inc.  
740 New Circle Road NW  
Lexington, KY 40550  
(606) 232-3000

## Industry Canada compliance statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

## Avis de conformité aux normes d'Industrie Canada

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

## Japanese VCCI notice

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。  
取扱説明書に従って正しい取り扱いをして下さい。

## European Community (EC) directives conformity

This product is in conformity with the protection requirements of EC Council directives 89/336/EEC and 73/23/EEC on the approximation and harmonization of the laws of the Member States relating to electromagnetic compatibility and safety of electrical equipment designed for use within certain voltage limits.

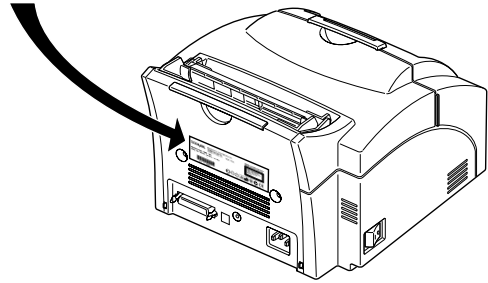
A declaration of conformity with the requirements of the Directive has been signed by the Director of Manufacturing and Technical Support, Lexmark International, S.A., Boigny, France.

This product satisfies the Class B limits of EN 55022 and safety requirements of EN 60950.

## Laser notices

The following laser notice label may be affixed to this printer:

## Class 1 laser statement label



## Laser notice

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 825.

Class I laser products are not considered to be hazardous. The printer contains internally a Class IIIb (3b) laser that is nominally a 5 milliwatt gallium arsenide laser operating in the wavelength region of 700-810 nanometers. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

## Laser

Der Drucker erfüllt gemäß amtlicher Bestätigung der USA die Anforderungen der Bestimmung DHHS (Department of Health and Human Services) 21 CFR Teil J für Laserprodukte der Klasse I (1). In anderen Ländern gilt der Drucker als Laserprodukt der Klasse I, der die Anforderungen der IEC (International Electrotechnical Commission) 825 gemäß amtlicher Bestätigung erfüllt.

Laserprodukte der Klasse I gelten als unschädlich. Im Inneren des Druckers befindet sich ein Laser der Klasse IIIb (3b), bei dem es sich um einen Galliumarsenlaser mit 5 Milliwatt handelt, der Wellen der Länge 700-810 Nanometer ausstrahlt. Das Lasersystem und der Drucker sind so konzipiert, daß im Normalbetrieb, bei der Wartung durch den Benutzer oder bei ordnungsgemäßer Wartung durch den Kundendienst Laserbestrahlung, die die Klasse I übersteigen würde, Menschen keinesfalls erreicht.

## Avis relatif à l'utilisation de laser

Pour les Etats-Unis : cette imprimante est certifiée conforme aux provisions DHHS 21 CFR alinéa J concernant les produits laser de Classe I (1).

Pour les autres pays : cette imprimante répond aux normes IEC 825 relatives aux produits laser de Classe I.

Les produits laser de Classe I sont considérés comme des produits non dangereux. Cette imprimante est équipée d'un laser de Classe IIb (3b) (arséniure de gallium d'une puissance nominale de 5 milliwatts) émettant sur des longueurs d'onde comprises entre 700 et 810 nanomètres. L'imprimante et son système laser sont conçus pour impossible, dans des conditions normales d'utilisation, d'entretien par l'utilisateur ou de révision. L'exposition à des rayonnements laser supérieurs à des rayonnements de Classe I.

## Avvertenze sui prodotti laser

Questa stampante è certificata negli Stati Uniti per essere conforme ai requisiti del DHHS 21 CFR Sottocapitolo J per i prodotti laser di classe I ed è certificata negli altri Paesi come prodotto laser di classe I conforme ai requisiti della norma CEI 825.

I prodotti laser di classe non sono considerati pericolosi. La stampante contiene al suo interno un laser di classe IIb (3b) all'arseniuro di gallio della potenza di 5mW che opera sulla lunghezza d'onda compresa tra 700 e 810 nanometri. Il sistema laser e la stampante sono stati progettati in modo tale che le persone a contatto con la stampante, durante il normale funzionamento, le operazioni di servizio o quelle di assistenza tecnica, non ricevano radiazioni laser superiori al livello della classe I.

## Avisos sobre el láser

Se certifica que, en los EE.UU., esta impresora cumple los requisitos para los productos láser de Clase I (1) establecidos en el subcapítulo J de la norma CFR 21 del DHHS (Departamento de Sanidad y Servicios) y, en los demás países, reúne todas las condiciones expuestas en la norma IEC 825 para productos láser de Clase I (1).

Los productos láser de Clase I no se consideran peligrosos. La impresora contiene en su interior un láser de Clase IIb (3b) de arseniuro de galio de funcionamiento nominal a 5 milivatios en una longitud de onda de 700 a 810 nanómetros. El sistema láser y la impresora están diseñados de forma que ninguna persona pueda verse afectada por ningún tipo de radiación láser superior al nivel de la Clase I durante su uso normal, el mantenimiento realizado por el usuario o cualquier otra situación de servicio técnico.

## Declaração sobre laser

A impressora está certificada nos E.U.A. em conformidade com os requisitos da regulamentação DHHS 21 CFR Subcapítulo J para a Classe I (1) de produtos laser. Em outros locais, está certificada como um produto laser da Classe I, em conformidade com os requisitos da norma IEC 825.

Os produtos laser da Classe I não são considerados perigosos. Internamente, a impressora contém um produto laser da Classe IIb (3b), designado laser de arseneto de potássio, de 5 milliwatts, operando numa faixa de comprimento de onda entre 700 e 810 nanómetros. O sistema e a impressora laser foram concebidos de forma a nunca existir qualquer possibilidade de acesso humano a radiação laser superior a um nível de Classe I durante a operação normal, a manutenção feita pelo utilizador ou condições de assistência prescritas.

## Laserinformatie

De printer voldoet aan de eisen die gesteld worden aan een laserprodukt van klasse I. Voor de Verenigde Staten zijn deze eisen vastgelegd in DHHS 21 CFR Subchapter J, voor andere landen in IEC 825.

Laserprodukten van klasse I worden niet als ongevaarlijk aangemerkt. De printer is voorzien van een laser van klasse IIb (3b), dat wil zeggen een gallium arsenide-laser van 5 milliwatt met een golflengte van 700-810 nanometer. Het lasergedeelte en de printer zijn zo ontworpen dat bij normaal gebruik, bij onderhoud of reparatie conform de voorschriften, nooit blootstelling mogelijk is aan laserstraling boven een niveau zoals voorgeschreven is voor klasse I.

## Lasermeddelelse

Printeren er godkendt som et Klasse I-laserprodukt, i overensstemmelse med kravene i IEC 825.

Klasse I-laserprodukter betragtes ikke som farlige. Printeren indeholder internt en Klasse IIb (3b)-laser, der nominelt er en 5 milliwatt galliumarsenid laser, som arbejder på bølgelængdeområdet 700-810 nanometer. Lasersystemet og printeren er udformet således, at mennesker aldrig udsættes for en laserstråling over Klasse I-niveau ved normal drift, brugervedligeholdelse eller obligatoriske servicebetingelser.

## Huomautus laserlaitteesta

Tämä kirjoitin on Yhdysvalloissa luokan I (1) laserlaitteiden DHHS 21 CFR Subchapter J -määrityksen mukainen ja muualla luokan I laserlaitteiden IEC 825 -määrityksen mukainen.

Luokan I laserlaitteiden ei katsota olevan vaarallisia käyttäjälle. Kirjoittimessa on sisäinen luokan IIb (3b) 5 milliwatin galliumarsenidilaser, joka toimii aaltoalueella 700 - 810 nanometriä. Laserjärjestelmä ja kirjoitin on suunniteltu siten, että käyttäjä ei altistu luokan I määräytyksiä voimakkaammalle säteilylle kirjoittimen normaalin toiminnan, käyttäjän tekemien huoltotoimien tai muiden huoltotoimien yhteydessä.

### LUOKAN I LASERLAITE

VAROITUS! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

### KLASS I LASER APPARAT

WARNING! Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

## Laser-notis

Denna skrivare är i USA certifierad att motsvara kraven i DHHS 21 CFR, underparagraf J för laserprodukter av Klass I (1). I andra länder uppfyller skrivaren kraven för laserprodukter av Klass I enligt kraven i IEC 825.

Laserprodukter i Klass I anses ej hälsovådliga. Skrivaren har en inbyggd laser av Klasse IIb (3b) som består av en laserenhet av gallium-arsenid på 5 milliwatt som arbetar i våglängdsområdet 700-810 nanometer. Lasersystemet och skrivaren är utformade så att det aldrig finns risk för att någon person utsätts för laserstrålning över Klass I-nivå vid normal

användning, underhåll som utförs av användaren eller annan föreskriven serviceåtgärd.

## Laser-melding

Skriveren er godkjent i USA etter kravene i DHHS 21 CFR, underkapittel J, for klasse I (1) laserprodukter, og er i andre land godkjent som et Klasse I-laserprodukt i samsvar med kravene i IEC 825.

Klasse I-laserprodukter er ikke å betrakte som farlige. Skriveren inneholder internt en klasse IIb (3b)-laser, som består av en gallium-arseniserenhet som avgir stråling i bølgelengdeområdet 700-810 nanometer. Lasersystemet og skriveren er utformet slik at personer aldri utsettes for laserstråling ut over klasse I-nivå under vanlig bruk, vedlikehold som utføres av brukeren, eller foreskrevne serviceoperasjoner.

## Avís sobre el làser

Segons ha estat certificat als Estats Units, aquesta impressora compleix els requisits de DHHS 21 CFR, apartat J, pels productes làser de classe I (1), i segons ha estat certificat en altres llocs, és un producte làser de classe I que compleix els requisits d'IEC 825.

Els productes làser de classe I no es consideren perillosos. Aquesta impressora conté un làser de classe IIb (3b) d'arseniür de gal.li, nominalment de 5 mil.liwats, i funciona a la regió de longitud d'ona de 700-810 nanòmetres. El sistema làser i la impressora han sigut concebuts de manera que mai hi hagi exposició a la radiació làser per sobre d'un nivell de classe I durant una operació normal, durant les tasques de manteniment d'usuari ni durant els serveis que satisfacin les condicions prescrites.

## Japanese laser notice

### レーザーに関するお知らせ

このプリンターは、米国ではDHHS 21 CFRサブチャプターJのクラスI(1)の基準を満たしたレーザー製品であることが証明されています。また米国以外ではIEC 825の基準を満たしたクラスIのレーザー製品であることが証明されています。

クラスIのレーザー製品には危険性はないと考えられています。このプリンターはクラスIIb(3b)のレーザーを内蔵しています。このレーザーは、波長が700~810ナノメートルの範囲で、通常5ミリワットのガリウム砒化物を放射するレーザーです。このレーザーシステムとプリンターは、通常の操作、ユーザのメンテナンス、規定された修理においては、人体がクラスIのレベル以上のレーザー放射に晒されることのないよう設計されています。

## Chinese laser notice

### 注意：

本打印机被美国认证合乎 DHHS 21 CFR Subchapter I 对分类 I (1) 激光产品的标准，而在其他地区则被认证合乎 IEC 825 的标准。

分类 I 激光产品一般认为不具危险性，本打印机内部含有分类 IIb (3b) 的激光，在操作过程中会产生 5 毫瓦含镓及砷的微量激光，其波长范围在 700~810 nm 之间。本激光系统及打印机的设计，在一般操作、使用者维护或规定内的维修情况下，不会使人体接触分类 I 以上等级的辐射。

## Korean laser notice

본프린터는 1등급 레이저 제품들에 대한 DHHS 21 CFR Subchapter 3의 규정을 준수하고 있음을 미국에서 인증받았으며, 그외의 나라에서도 IEC 825 규정을 준수하는 1등급 레이저 제품으로서 인증을 받았습니다.

1등급 레이저 제품들은 안전한 것으로 간주됩니다. 본 프린터는 5 밀리วัต트 갈륨 아세나이드 레이저로서 700~810 나노미터의 파장대에서 활동하는 Class III (3b) 레이저를 내부에 갖고 있습니다. 본 레이저 시스템과 프린터는 정상 작동 중이나 유지 보수 중 또는 규정된 서비스 상태에서 상기의 Class I 수준의 레이저 방출에 사람이 절대 접근할 수 없도록 설계되어 있습니다.

# Glossary

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**1200 Image Quality.** A print resolution setting that allows the printer to vary the size of each printed pixel, thereby producing a continuous tone effect. This setting improves the print quality of graphic fills, images and halftones.

## A

**A4.** paper measuring 210 x 297 mm.

**A5.** Paper measuring 148 x 210 mm.

**application.** See *software application*.

**attendance message.** A message that indicates a printer problem. The printer requires operator intervention before it can continue processing.

**automated fax system.** Lexmark's quick turnaround system for providing customers product information, technical tips and printer driver information. The automated attendant walks the customer through the steps necessary to receive information by fax.

## B

**B5.** (1) Envelope measuring 176 x 250 mm. (2) Paper measuring 182 x 257 mm.

**bidirectional communication.** Two-way communication between your printer and a computer, using Network Printing Alliance Protocol (NPAP 1.0 standard).

**bin.** See *output bin*.

**bitmapped font.** Predefined pattern of bits that represent a typeface at a specific size, style and resolution.

**bulletin board system.** Lexmark's service for obtaining printer drivers, fonts and other related data by modem.

**Busy.** A printer state in which the printer is processing data or printing pages.

## C

**C5.** Envelope measuring 162 x 229 mm.

**Centronics parallel interface.** A standard for connecting printers and other peripheral devices to a computer. It defines the plug, socket and electrical signals that are used for controlling the transmission of data.

**configuration.** (1) The arrangement of a computer system, printer or network. (2) The devices and programs that make up a system, subsystem or network.

## D

**data stream.** Print data and printer control information flowing from the host system (computer) to the printer without interruption.

**default.** An attribute, value or setting that is assumed when none is explicitly specified.

**defrag.** To free up unused space. To defrag flash memory, the unused space or gaps are moved to the end of the memory, creating additional space.

**DL.** Envelope measuring 110 x 220 mm.

**download.** To transfer information, such as fonts, from a diskette or other device to your computer or printer for temporary or permanent storage.

**dpi.** Dots per inch. See *resolution*.

**driver.** See *printer driver*.

## E

**emulation.** Imitation of a printer processing language; for example, PCL 5 emulation imitates the printer language used with the Hewlett-Packard LaserJet printer.

**executive paper.** Paper measuring 7.25 x 10.5 in.

## F

**factory default.** Printer setting defined when the printer is manufactured.

**Fastbytes protocol.** A parallel printer protocol that enables the printer to receive information at faster transmission rates than normal.

**flash memory.** Optional memory you can install in the printer that provides non-volatile storage for downloaded fonts, symbol sets or macros.

**font.** A family or set of characters that have common visual characteristics, such as size, weight and style.

**fuser.** The part of the printer that uses heat and pressure to make toner adhere to the paper.

## G

**g/m<sup>2</sup>.** Grams per square meter. Metric measurement for paper weight.

## H

**hex trace.** A way to isolate printing problems by showing you, in a hexadecimal and character representation of a print job, what information your printer is receiving.

## I

**indicator lights.** The 6 lights on the operator panel that provide status, attendance and service information.

**interface.** The connection between the computer and the printer.

## L

**landscape orientation.** Printed page orientation in which the print runs along the long edge of the paper.

**leading edge.** The edge of the printer page that exits the printer first.

**legal.** Paper measuring 8.5 x 14 in.

**letter.** Paper measuring 8.5 x 11 in.

## M

**macro.** A collection of commands grouped together and temporarily or permanently stored in printer memory.

**manual feed.** Feeding one sheet of media (paper, envelope, transparency) into the printer at a time.

**MarkVision.** A printer utility that works with the printer's bidirectional communication capability to provide continuous printer status and let you configure multiple printers from a single setup file.

**MB.** Megabyte; 1,048,576 bytes.

**media.** Any materials you print on, such as paper, envelopes, labels and transparencies.

**menu.** The choices for displaying, altering or testing printer features and settings.

## O

**operating system.** The basic software which provides the low-level functions needed to operate your computer, such as booting up.

**Operation ReSource.** Lexmark's process established to recycle toner cartridges and print units.

**operator panel.** The 6 lights and 1 button on the printer that are used to change printer settings and display printer status.

**orientation.** A page description defining whether the printed text runs along the short edge (portrait) or the long edge (landscape) of the paper.

**output bin.** Any paper exit area. The default is the standard output bin, on top of the printer, which allows the paper to exit face down and collated.

**overlay.** Background text or graphics intended to appear the same in each file where the overlay is applied.

## P

**pages per minute (ppm).** The number of typical pages of text that can be printed in one minute.

**parallel interface.** A bidirectional interface for exchanging data between the computer and the printer.

**portrait orientation.** Printed page orientation in which the print runs across the short edge of the paper.

**print cartridge.** The replaceable unit inside the printer that contains the toner supply.

**printer driver.** A program that translates the language of a software application to the language of the printer so the two can communicate data.

**printer language.** A set of defined commands (such as PCL or PostScript) to which the printer responds.

**protocol.** A set of rules governing the communication and the transfer of data between two or more devices.

## R

**Ready.** State of the printer in which it can receive, process and print data.

**reset.** Clears the printer buffer and all temporary settings, and returns to the initial power-on state.

**resolution.** A measure of the sharpness of a printed image, expressed in the number of dots per inch (dpi).

## S

**scalable font.** A font whose characters are stored only as outlines so it is easy to change (or scale) the size of the characters (measured in points).

**service message.** A printer message that indicates the printer needs service.

**setting.** Values you choose from printer menus or software applications that control printer operation and the appearance of the printed page.

**setup utility.** A program shipped with your printer to install printer drivers, test printer setup, and complete the setup of printer options.

**software application.** Any program loaded on your computer used to perform a specific task, such as word processing or data compiling.

**standard protocol.** A parallel printer protocol where the printer receives information sent from the computer at a normal transmission rate.

**status message.** A printer message that provides information on the state of the printer.

**system board.** The printer's main circuit board.

## T

**test page.** A printed page that lists information about your printer.

**toner.** The material that adheres to the paper or other media to create the printed page.

**Toolkit.** A group of utilities shipped with the printer to help you perform routine printer functions, such as downloading fonts, installing screen fonts and sending printer commands.

**TrueType fonts.** Fonts that use a single font outline for both screen display and printing. You can use TrueType fonts in Windows applications and scale them to any height. They print exactly as they appear on the screen.

## U

**USB (Universal Serial Bus).** A communications architecture that lets a computer interconnect with a variety of peripherals with a single cable.

**user default.** Printer setting selected by a user that remains in effect until a new user default is chosen.



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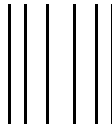
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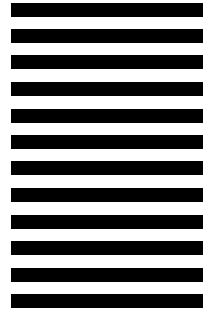
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