

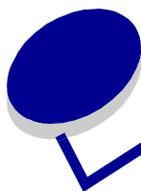


E238

User's Guide



June 2005



Notices

Edition notice

Edition: June 2005

The following paragraph does not apply to any country where such provisions are inconsistent with local law: LEXMARK INTERNATIONAL, INC., PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

This publication could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in later editions. Improvements or changes in the products or the programs described may be made at any time.

Comments about this publication may be addressed to Lexmark International, Inc., Department F95/032-2, 740 West New Circle Road, Lexington, Kentucky 40550, U.S.A. In the United Kingdom and Eire, send to Lexmark International Ltd., Marketing and Services Department, Westhorpe House, Westhorpe, Marlow Bucks SL7 3RQ. Lexmark may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you. You can purchase additional copies of publications related to this product by calling 1-800-553-9727. In the United Kingdom and Eire, call +44 (0)8704 440 044. In other countries, contact your point of purchase.

References in this publication to products, programs, or services do not imply that the manufacturer intends to make these available in all countries in which it operates. Any reference to a product, program, or service is not intended to state or imply that only that product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any existing intellectual property right may be used instead. Evaluation and verification of operation in conjunction with other products, programs, or services, except those expressly designated by the manufacturer, are the user's responsibility.

© 2005 Lexmark International, Inc.

All rights reserved.

UNITED STATES GOVERNMENT RIGHTS

This software and any accompanying documentation provided under this agreement are commercial computer software and documentation developed exclusively at private expense.

Trademarks

Lexmark and Lexmark with diamond design are trademarks of Lexmark International, Inc., registered in the United States and/or other countries.

PictureGrade is a trademark of Lexmark International, Inc.

PCL® is a registered trademark of the Hewlett-Packard Company. PCL is Hewlett-Packard Company's designation of a set of printer commands (language) and functions included in its printer products. This printer is intended to be compatible with the PCL language. This means the printer recognizes PCL commands used in various application programs, and that the printer emulates the functions corresponding to the commands.

PostScript® is a registered trademark of Adobe Systems Incorporated. PostScript 3 is Adobe Systems' designation of a set of printer commands (language) and functions included in its software products. This printer is intended to be compatible with the PostScript 3 language. This means the printer recognizes PostScript 3 commands used in various application programs, and that the printer emulates the functions corresponding to the commands.

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

Other trademarks are the property of their respective owners.

Licensing notice

The printer resident software contains software developed and copyrighted by Lexmark.

In addition, the printer resident software may contain:

- Lexmark modified software licensed under the provisions of the GNU General Public License version 2 and/or the GNU Lesser General Public License version 2.1
- Software licensed under the BSD license
- Software licensed under other licenses

Click the title of the document you want to review:



BSD License and Warranty statements



GNU General Public License



Open Source License

The Lexmark modified third-party software covered by these third-party licenses is free software; you can redistribute it and/or modify it under the terms of the licenses referenced above. These licenses do not provide you any rights to the Lexmark copyrighted software in this printer.

Since the third-party licensed software the Lexmark modifications are based on is supplied explicitly without warranty, use of the Lexmark modified version is similarly provided without warranty. See the warranty disclaimers in the referenced licenses for additional details.

To obtain source code files for the Lexmark modified GNU licensed software, launch the drivers CD that shipped with your printer and click **Contact Lexmark**.

Safety information

- Connect the power cord to a properly grounded electrical outlet that is near the product and easily accessible.
CAUTION: Do not set up this product or make any electrical or cabling connections, such as the power cord or telephone, during a lightning storm.
- 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.
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.

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 60825-1.

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 770-795 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.

The United Kingdom Telecommunications Act 1984

This apparatus is approved under the approval number NS/G/1234/J/100003 for the indirect connections to the public telecommunications systems in the United Kingdom.

Conventions

Note: A *note* identifies something that could help you.

CAUTION: A *caution* identifies something that could cause you harm.

Warning: A *warning* identifies something that could damage your product hardware or software.

Electronic emission notices

Federal Communications Commission (FCC) compliance information statement

The Lexmark E238, Machine Type 4511, 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.

Note: 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 for parallel attach or 12A2405 for USB attach. Use of a substitute cable not properly shielded and grounded may result in a violation of FCC regulations.

Printer energy consumption

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

Director of Lexmark Technology & Services
Lexmark International, Inc.
740 West New Circle Road
Lexington, KY 40550
(859) 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 de l'industrie du Canada

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

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 directives is available from the Director of Manufacturing and Technical Support, Lexmark International, S. A., Boigny, France.

This product satisfies the limits of EN 55022; safety requirements of EN 60950; radio spectrum requirements of ETSI EN 300 330-1 and ETSI EN 300 330-2; and the EMC requirements of EN 55024, ETSI EN 301 489-1 and ETSI EN 301 489-3.

Japanese VCCI notice

If this symbol appears on your product, the accompanying statement is applicable.



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ください。

Korean MIC statement

If this symbol appears on your product, the accompanying statement is applicable.



이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거 지역에서는 물론 모든 지역에서 사용할 수 있습니다.

This equipment has undergone EMC registration as a household product. It can be used in any area, including a residential area.

Noise emission levels

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

1-meter average sound pressure, dBA	
Printing	52—4511-000
Idling	30—4511-000

ENERGY STAR



The EPA ENERGY STAR Office Equipment program is a partnership effort with office equipment manufacturers to promote the introduction of energy-efficient products and to reduce air pollution caused by power generation. Companies participating in this program introduce products 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.

WEEE

If this symbol appears on your product, the accompanying statement is applicable.



The WEEE logo signifies specific recycling programs and procedures for electronic products in countries of the European Union. We encourage the recycling of our products. If you have further questions about recycling options, visit the Lexmark Web site at www.lexmark.com for your local sales office phone number.

Printer energy consumption

The following table documents the power consumption characteristics of the printer.

Mode	Description	Power consumption
Printing	Printer is generating hard copy output	420 W
Ready	Printer is waiting for a print job	80 W
Power Saver	Printer is in energy saving mode	7 W
Off	Printer is plugged into a wall outlet, but switch is turned off	0 W

Statement of Limited Warranty

The power consumption levels listed in the previous table represent time-averaged measurements. Instantaneous power draws may be substantially higher than the average.

Power Saver

This printer is designed with an energy-saving mode called Power Saver. The Power Saver Mode is equivalent to the EPA Sleep Mode. The Power Saver Mode saves energy by lowering power consumption during extended periods of inactivity. The Power Saver Mode is automatically engaged after this printer is not used for a specified period of time, called the Power Saver Timeout. The factory default Power Saver Timeout is 30 minutes for the Lexmark E238.

By **Using the Local Printer Setup Utility**, the Power Saver Timeout can be modified between 1 minute and 240 minutes. Setting the Power Saver Timeout to a low value reduces energy consumption, but may increase the response time of the printer. Setting the Power Saver Timeout to a high value maintains a fast response, but uses more energy.

If the Power Saver Mode is affecting the effective use of this printer, this mode can be disabled from the Local Printer Setup Utility (see **page 74**).

Total energy usage

It is sometimes helpful to calculate the total printer energy usage. Since power consumption claims are provided in power units of Watts, the power consumption should be multiplied by the time the printer spends in each mode in order to calculate energy usage. The total printer energy usage is the sum of each mode's energy usage.

Statement of Limited Warranty

Lexmark International, Inc. Lexington, KY

This limited warranty applies to the United States and Canada. For customers outside the U.S., refer to the country-specific warranty information that came with your product.

This limited warranty applies to this product only if it was originally purchased for your use, and not for resale, from Lexmark or a Lexmark Remarketer, referred to in this statement as "Remarketer."

Limited warranty

Lexmark warrants that this product:

- Is manufactured from new parts, or new and serviceable used parts, which perform like new parts
- Is, during normal use, free from defects in material and workmanship

If this product does not function as warranted during the warranty period, contact a Remarketer or Lexmark for repair or replacement (at Lexmark's option).

If this product is a feature or option, this statement applies only when that feature or option is used with the product for which it was

intended. To obtain warranty service, you may be required to present the feature or option with the product.

If you transfer this product to another user, warranty service under the terms of this statement is available to that user for the remainder of the warranty period. You should transfer proof of original purchase and this statement to that user.

Limited warranty service

The warranty period starts on the date of original purchase as shown on the purchase receipt and ends 12 months later provided that the warranty period for any supplies and for any maintenance items included with the printer shall end earlier if it, or its original contents, are substantially used up, depleted, or consumed.

###List product-specific maintenance items such as fuser units, transfer belts, and paper feed items)###, if any, and any other items for which a Maintenance Kit is available are substantially consumed when the printer displays a "Life Warning" or "Scheduled Maintenance" message for such item.

To obtain warranty service you may be required to present proof of original purchase. You may be required to deliver your product to the Remarketer or Lexmark, or ship it prepaid and suitably packaged to a Lexmark designated location. You are responsible for loss of, or damage to, a product in transit to the Remarketer or the Lexmark designated location.

When warranty service involves the exchange of a product or part, the item replaced becomes the property of the Remarketer or Lexmark. The replacement may be a new or repaired item.

The replacement item assumes the remaining warranty period of the original product.

Replacement is not available to you if the product you present for exchange is defaced, altered, in need of a repair not included in warranty service, damaged beyond repair, or if the product is not free of all legal obligations, restrictions, liens, and encumbrances.

Before you present this product for warranty service, remove all print cartridges, programs, data, and removable storage media (unless directed otherwise by Lexmark).

For further explanation of your warranty alternatives and the nearest Lexmark authorized servicer in your area contact Lexmark on the World Wide Web at <http://support.lexmark.com>.

Remote technical support is provided for this product throughout its warranty period. For products no longer covered by a Lexmark warranty, technical support may not be available or only be available for a fee.

Extent of limited warranty

Lexmark does not warrant uninterrupted or error-free operation of any product or the durability or longevity of prints produced by any product.

Warranty service does not include repair of failures caused by:

- Modification or unauthorized attachments
- Accidents, misuse, abuse or use inconsistent with Lexmark user's guides, manuals, instructions or guidance
- Unsuitable physical or operating environment
- Maintenance by anyone other than Lexmark or a Lexmark authorized servicer
- Operation of a product beyond the limit of its duty cycle
- Use of printing media outside of Lexmark specifications
- Refurbishment, repair, refilling or remanufacture by a third party of products, supplies or parts

Statement of Limited Warranty

- Products, supplies, parts, materials (such as toners and inks), software, or interfaces not furnished by Lexmark

TO THE EXTENT PERMITTED BY APPLICABLE LAW, NEITHER LEXMARK NOR ITS THIRD PARTY SUPPLIERS OR REMARKETERS MAKE ANY OTHER WARRANTY OR CONDITION OF ANY KIND, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, AND SPECIFICALLY DISCLAIM THE IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND SATISFACTORY QUALITY. ANY WARRANTIES THAT MAY NOT BE DISCLAIMED UNDER APPLICABLE LAW ARE LIMITED IN DURATION TO THE WARRANTY PERIOD. NO WARRANTIES, EXPRESS OR IMPLIED, WILL APPLY AFTER THIS PERIOD. ALL INFORMATION, SPECIFICATIONS, PRICES, AND SERVICES ARE SUBJECT TO CHANGE AT ANY TIME WITHOUT NOTICE.

Limitation of liability

Your sole remedy under this limited warranty is set forth in this document. For any claim concerning performance or nonperformance of Lexmark or a Remarketer for this product under this limited warranty, you may recover actual damages up to the limit set forth in the following paragraph.

Lexmark's liability for actual damages from any cause whatsoever will be limited to the amount you paid for the product that caused the damages. This limitation of liability will not apply to claims by you for bodily injury or damage to real property or tangible personal property for which Lexmark is legally liable. **IN NO EVENT WILL LEXMARK BE LIABLE FOR ANY LOST PROFITS, LOST SAVINGS, INCIDENTAL DAMAGE, OR OTHER ECONOMIC OR CONSEQUENTIAL DAMAGES.** This is true even if you advise Lexmark or a Remarketer of the possibility of such damages. Lexmark is not liable for any claim by you based on a third party claim.

This limitation of remedies also applies to claims against any Suppliers and Remarketers of Lexmark. Lexmark's and its Suppliers' and Remarketers' limitations of remedies are not cumulative. Such Suppliers and Remarketers are intended beneficiaries of this limitation.

Additional rights

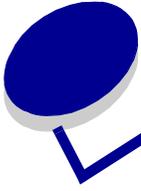
Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions contained above may not apply to you.

This limited warranty gives you specific legal rights. You may also have other rights that vary from state to state.

Additional rights

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



Contents

Notices	2
Edition notice	2
Trademarks	2
Licensing notice	2
Safety information	3
Laser notice	3
The United Kingdom Telecommunications Act 1984	3
Conventions	3
Electronic emission notices	3
Printer energy consumption	4
Statement of Limited Warranty	5
Chapter 1: Printer overview	10
Chapter 2: Installing software for local printing	12
Before installing printer software	12
Windows	12
Installing printer software using the drivers CD	12
Installing printer software through the Add Printer Wizard	12
Installing optional printer software	13
Macintosh	13
Creating a queue in Print Center / Printer Setup Utility (Mac OS X)	13
UNIX/Linux	14
Chapter 3: Print media tasks and tips	16
What types of print media can be loaded?	16
Where can print media be loaded in the printer?	17
Tips on choosing the right print media	18
Paper	18
Preprinted forms and letterhead	18
Transparencies	18
Envelopes	18

Contents

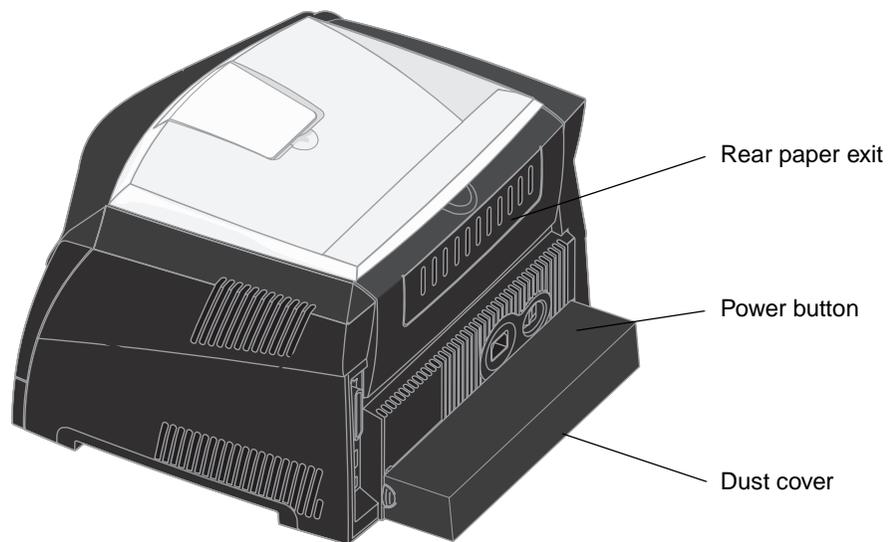
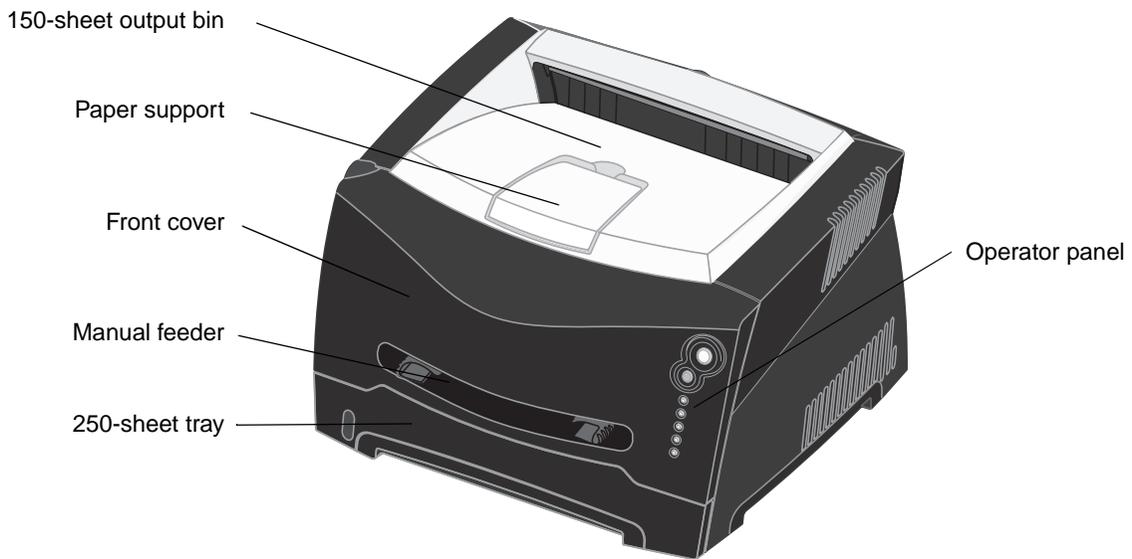
Labels	19
Card stock	20
Tips on storing print media and supplies	20
Storing paper	20
Storing supplies	20
Tips on preventing jams	21
How to load the 250-sheet tray	22
Extending the tray for legal or folio size paper	24
How to load the manual feeder	26
How to use the rear exit	26
How to clear paper jams	28
Chapter 4: Printing tasks	31
How to manually feed a print job	31
How to print on both sides of the paper (manual duplex)	33
How to print multiple page images on one page (N-up printing)	35
How to print a booklet	36
How to print a poster	37
How to print on letterhead	38
How to print using an overlay or a watermark	38
Using an overlay	38
Using a watermark	39
How to cancel a print job	40
From the printer operator panel	40
From a Windows computer	40
Canceling a job from a Macintosh computer	40
Chapter 5: How to install options	41
How to access the system board	41
How to add a memory card	43
Recognizing installed options	43
Chapter 6: Using the operator panel	44
Overview of the operator panel	44
Understanding the operator panel lights	45
Secondary errors	47
Operator panel codes	49
Primary codes	49

Contents

Secondary error codes	61
Chapter 7: Understanding the printer configuration menus	69
Printing the Printer Settings Configuration sheet	69
Configuration menus overview	70
Parallel menu	71
Setup menu	71
USB menu	72
Utilities menu	72
Chapter 8: Software tasks	73
How to print the menu settings page	73
How to print a test page	73
Windows	73
Using the Local Printer Setup Utility	74
Chapter 9: Supplies information	75
What supplies do I need and how do I order them?	75
Storing supplies	75
How to conserve supplies	75
How to know when you need new supplies	76
Checking the toner and photoconductor levels	76
Recognizing the operator panel light sequences	77
How to change a toner cartridge	78
Recycling Lexmark products	81
How to change a photoconductor kit	82
Chapter 10: Troubleshooting	85
General problems	85
Print quality problems	87
How to clean the printhead lens	91
Index	94

1

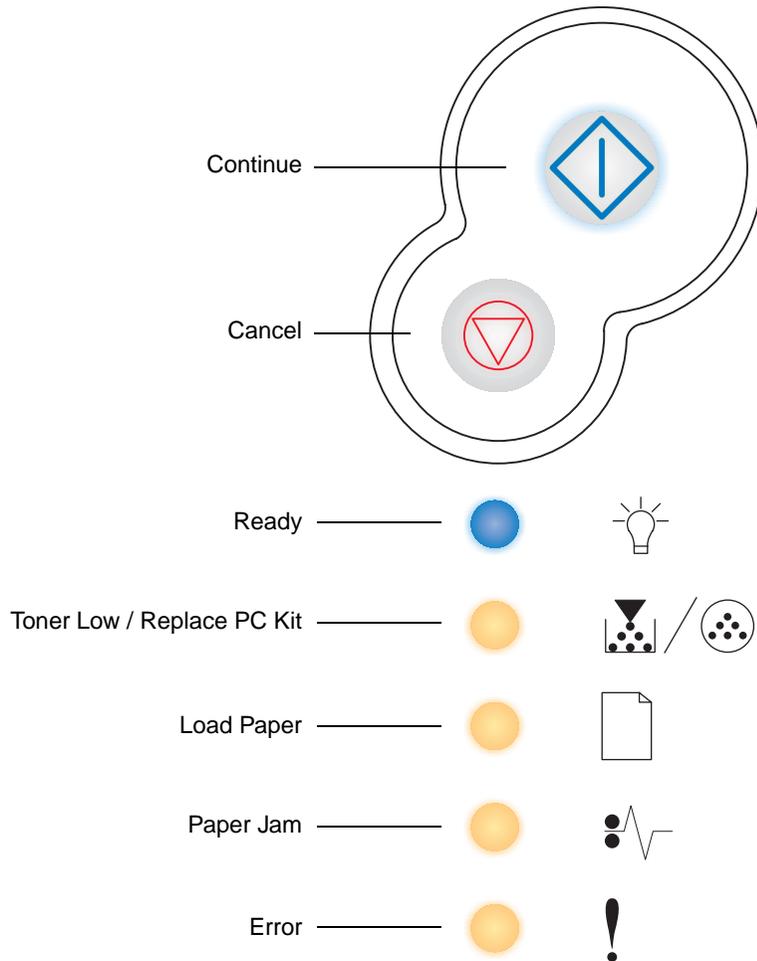
Printer overview



Printer overview

The operator panel has 5 lights and 2 buttons.

Note: The Continue button also functions as a light.



- Press and release **Continue**  to resume printing.
- Press and release **Continue**  twice quickly to display a secondary error code.
- Press and release **Cancel**  to cancel the job currently printing.
- Press and hold **Cancel**  until all of the lights come on to reset the printer.

2

Installing software for local printing

Before installing printer software

A local printer is a printer attached to a computer using a USB or parallel cable. You must install some necessary printer software on the computer before connecting the USB cable.

Windows

The drivers CD can be used to install software on most Windows operating systems. If the operating system is not supported by the CD, the Add Printer Wizard must be used. Updates for the printer software may be available on the Lexmark Web site at www.lexmark.com.

Installing printer software using the drivers CD

You can install printer drivers and software for the following operating systems using the drivers CD:

- Windows Server 2003
- Windows Server 2003 x64
- Windows XP
- Windows XP x64 bit Edition
- Windows 2000
- Windows 98 Second Edition
- Windows Me
- Windows NT 4.x (USB not supported)

- 1 Insert the drivers CD. If the CD does not launch automatically, click **Start** → **Run**, and type **D:\Setup.exe** in the Run dialog (where D is the letter of the CD-ROM drive).
- 2 Select the Local install path, and follow the instructions on the screen.
- 3 Connect the USB cable, and turn on the printer. The Plug and Play screen appears, and a printer object is created in the printers folder of the computer.

Installing printer software through the Add Printer Wizard

The following operating systems must use the Add Printer Wizard to install printer software:

- Windows 95 (USB not supported)
- Windows 98 First Edition (USB not supported)

- 1 Insert the drivers CD. If the CD launches automatically, click **Exit**.
- 2 Launch the Add Printer Wizard.
- 3 When prompted, select to install a Local printer, then click **Have Disk**.
- 4 Specify the location of the printer software on the drivers CD. The path should be similar to the following:
D:\Drivers\Print\Win_9xMe\<language> where D is the letter of the CD-ROM drive.
- 5 Click **OK**.

Installing optional printer software

If you want to use any of the other software applications available on the drivers CD, now is a good time to set them up.

Local Printer Settings Utility

The Local Printer Settings Utility, a printer configuration utility, gives you the ability to change and save printer settings on a locally (USB and parallel) connected printer. User default settings remain in effect until you make other selections, or until you restore the original printer settings (called preset factory default settings). The configurable settings are organized according to menu. You can change settings such as Toner Darkness, Power Saver, Default Paper Size, and Default Paper Type.

Installing the Local Printer Settings Utility

- 1 Launch the drivers CD.
- 2 Click **Install Printer Software**.
- 3 Select the Custom install path.
- 4 Under Tools, select **Local Printer Settings Utility**.
- 5 Click **Finish** to complete the installation.

Use the printer driver to make changes to settings for individual print jobs, which will override the default settings on the printer. To access the Local Printer Setup Utility from your desktop, click **Start → Programs → Lexmark → Local Printer Settings Utility**.

Macintosh

Mac OS 9.x or later is required for USB printing. To print locally to a USB-attached printer, create a desktop printer icon (Mac OS 9), or create a queue in Print Center / Printer Setup Utility (Mac OS X).

Note: A PPD for the printer is also available in a downloadable software package on the Lexmark Web site at www.lexmark.com.

Creating a queue in Print Center / Printer Setup Utility (Mac OS X)

- 1 Install a PostScript Printer Description (PPD) file on the computer. A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.
 - a Insert the drivers CD.
 - b Double-click the installer package for the printer.
 - c Click **Continue** on the Welcome screen and again after viewing the Readme file.
 - d Click **Continue** after viewing the license agreement, and click **Agree** to accept the terms of the agreement.
 - e Select a Destination, and click **Continue**.
 - f On the Easy Install screen, click **Install**.
 - g Enter the user password, and click **OK**. All the necessary software is installed on the computer.
 - h Click **Close** when installation is complete.
- 2 Open Finder, click **Applications**, and click **Utilities**.
- 3 Double-click **Print Center** or **Printer Setup Utility**.

- 4 Do one of the following:
 - If the USB-attached printer appears in the Printer List, quit Print Center or Printer Setup Utility. A queue has been created for the printer.
 - If the USB-attached printer does not appear in the Printer List, make sure the USB cable is properly connected and the printer is turned on. After the printer appears in the Printer List, quit Print Center or Printer Setup Utility.

Creating a desktop printer icon (Mac OS 9.x)

- 1 Install a PostScript Printer Description (PPD) file on the computer. A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.
 - a Insert the drivers CD.
 - b Double-click **Classic**, and double-click the installer package for the printer.
 - c Choose the language needed for use, and click **Continue**.
 - d Click **Continue** after viewing the Readme file.
 - e Click **Continue** after viewing the license agreement, and click **Agree** to accept the terms of the agreement.
 - f On the Easy Install screen, click **Install**. All the necessary files are installed on the computer.
 - g Click **Close** when installation is complete.
- 2 Do one of the following:
 - For *Mac OS 9.0*: Open **Apple LaserWriter**.
 - For *Mac OS 9.1–9.x*: Open **Applications**, and click **Utilities**.
- 3 Double-click **Desktop Printer Utility**.
- 4 Select **Printer (USB)**, and click **OK**.
- 5 In the USB Printer Selection section, click **Change**. If the printer does not appear in the USB Printer Selection list, make sure the USB cable is properly connected, and the printer is turned on.
- 6 Select the name of the printer, and click **OK**. The printer appears in the original Printer (USB) window.
- 7 In the PostScript Printer Description (PPD) File section, click **Auto Setup**. Make sure the printer PPD now matches the printer in use.
- 8 Click **Create**, and click **Save**.
- 9 Specify a printer name, and click **Save**. The printer is now saved as a desktop printer.

UNIX/Linux

Local printing is supported on many UNIX and Linux platforms, such as Sun Solaris and Red Hat.

The Sun Solaris and Linux packages are available on the drivers CD and on the Lexmark Web site at www.lexmark.com. The UNIX/Linux *User's Guide* in each package gives detailed instructions for installing and using Lexmark printers in UNIX and Linux environments.

All the printer driver packages support local printing using a parallel connection. The driver package for Sun Solaris supports USB connections to Sun Ray appliances and Sun workstations.

Visit the Lexmark Web site at www.lexmark.com for a complete list of supported UNIX and Linux platforms.



3

Print media tasks and tips

What types of print media can be loaded?

Get the most out of your printer by properly loading the trays. Never mix media types within a tray.

Source	Sizes	Types	Weight	Capacity* (sheets)
Tray 1 (250-sheet tray)	A4, A5, JIS B5, letter, legal, executive, folio,† statement, Universal‡	Plain paper, transparencies, labels	60–90 g/m ² (16–24 lb)	<ul style="list-style-type: none"> • 250 paper • 50 labels • 50 transparencies
Tray 2 (550-sheet tray)	A4, A5, JIS B5, letter, legal, executive, folio,† statement, Universal‡	Plain paper, transparencies, labels	60–90 g/m ² (16–24 lb)	<ul style="list-style-type: none"> • 550 paper • 50 labels • 50 transparencies
Manual feeder	A4, A5, JIS B5, letter, legal, executive, folio,† statement, Universal‡	Plain paper, transparencies, labels,	60–163 g/m ² (16–43 lb)	1
		Card stock†	<ul style="list-style-type: none"> • 120–163 g/m² (16–90 lb) Index Bristol • 75–163 g/m² (50–100 lb) Tag 	
	7¼, 9, 10, DL, C5, B5	Envelopes	90 g/m ² (24 lb)	

* Capacity for 20 lb print media, unless otherwise noted.

† Grain short is recommended. Use rear exit for best results.

‡ Universal size ranges:

– **Tray 1:** 89–216 x 210–356 mm (3.5–8.5 x 8.27–14.0 in.)

– **Tray 2:** 148–216 x 210–356 mm (5.83–8.5 x 8.27–14.0 in.)

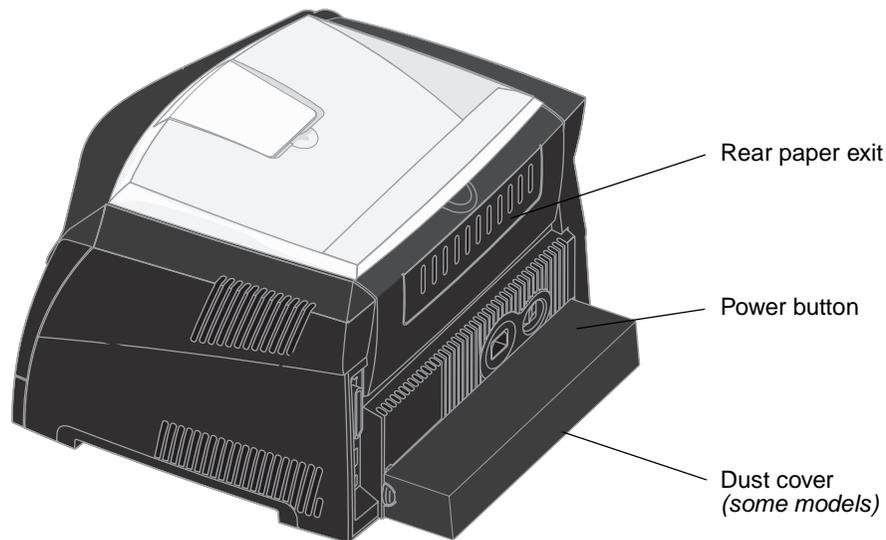
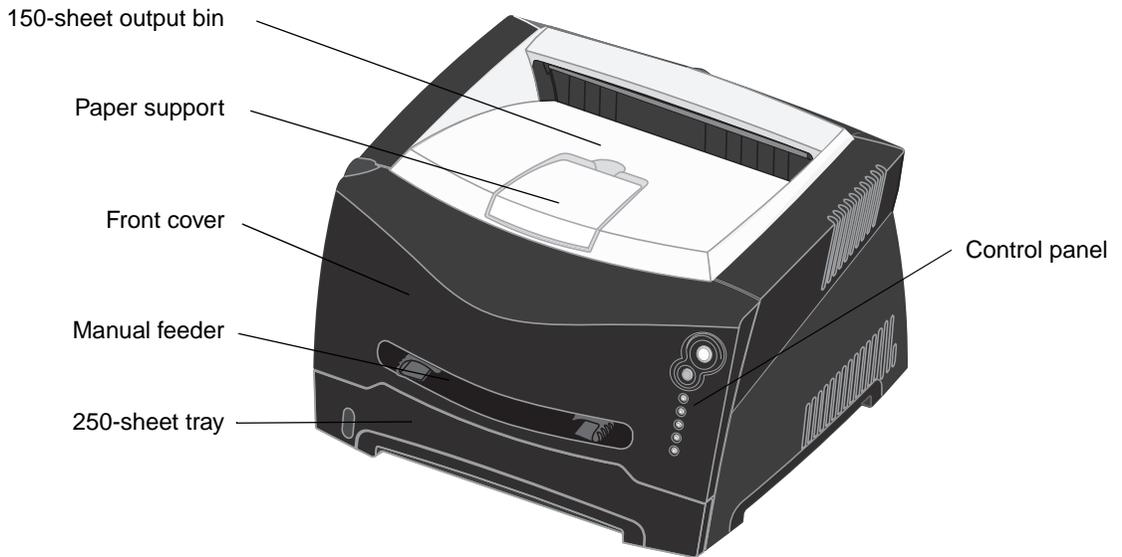
– **Manual feeder:** 76–216 x 127–356 mm (3.0–8.5 x 5.0–14.0 in.) (includes 3 x 5 in. cards)

Where can print media be loaded in the printer?

Where can print media be loaded in the printer?

Your printer has two standard paper sources: an automatic 250-sheet paper feeder (Tray 1) and a single-sheet manual feeder. Use Tray 1 for most print jobs. Use the manual feeder for a single piece of paper, transparency, envelope, paper label, card stock, or index card.

An output bin on top of the printer holds up to 150 sheets. The single-sheet rear exit provides a straight-through paper path to help reduce curling and potential jams. This is especially useful for specialty media, such as transparencies, envelopes, paper labels, card stock, or index cards



Tips on choosing the right print media

Selecting the right paper or other media reduces printing problems. For best print quality, try a sample of the paper or other media you are considering before buying large quantities.

See the *Card Stock & Label Guide* available on our Lexmark Web site at www.lexmark.com for more information about which paper provides optimum results for your printing environment.

Paper

- For the best print quality, use 20 lb (75 g/m²) xerographic, grain long paper.
The printer can automatically feed paper weights from 60 to 90 g/m² (16 to 24 lb bond) grain long. Paper lighter than 60 g/m² (16 lb) might not be stiff enough to feed properly, causing jams. Paper heavier than 90 g/m² (24 lb) should be fed through the optional 550-sheet tray or the manual feeder.
- The laser printing process heats paper to high temperatures of 170°C (338°F) for non-MICR applications. Use only paper able to withstand these temperatures without discoloring, bleeding, or releasing hazardous emissions. Check with the manufacturer or vendor to determine whether the paper you have chosen is acceptable for laser printers.

Preprinted forms and letterhead

- Use only forms and letterhead printed using an offset lithographic or engraved printing process.
- Choose papers that absorb ink, but do not bleed.
- Avoid papers with rough or heavily textured surfaces.

Use papers printed with heat-resistant inks designed for use in xerographic copiers. The ink must withstand temperatures of 170°C (338°F) without melting or releasing hazardous emissions. Use inks that are not affected by the resin in toner. Inks that are oxidation-set or oil-based should meet these requirements; latex inks might not. If you are in doubt, contact your paper supplier.

Preprinted papers such as letterhead must be able to withstand temperatures up to 170°C (338°F) without melting or releasing hazardous emissions.

Transparencies

- Use transparencies designed specifically for laser printers. Transparencies must be able to withstand temperatures of 170°C (338°F) without melting, discoloring, offsetting, or releasing hazardous emissions.
We recommend Lexmark laser printer transparencies: part number 70X7240 for letter size transparencies; part number 12A5010 for A4 size transparencies.
- To prevent print quality problems, avoid getting fingerprints on the transparencies.

Envelopes

- Use envelopes made from 24 lb (90 g/m²) bond paper.
- Do not use envelopes that:
 - Have excessive curl
 - Are stuck together
 - Are damaged in any way
 - Contain windows, holes, perforations, cutouts, or embossments
 - Use metal clasps, string ties, or metal folding bars
 - Have postage stamps attached

Tips on choosing the right print media

- Have any exposed adhesive when the flap is in the sealed position
- Use envelopes that can withstand temperatures of 170°C (338°F) without:
 - sealing
 - excessive curling
 - wrinkling
 - releasing hazardous emissions

If you have any doubts about the envelopes you are considering using, check with the envelope supplier.

- A combination of high humidity (over 60%) and the high printing temperatures may seal the envelopes.

Labels

- Do not use labels that have exposed adhesive on the sheets.
- Do not print a large number of labels continuously.
- Do not use vinyl labels.
- Use labels that can withstand temperatures of 170°C (338°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions. Label adhesives, face sheet (printable stock), and topcoats must also be able to withstand 25 pounds per square inch (psi) (172 kilopascals) pressure.

Tips on storing print media and supplies

Card stock

- Preprinting, perforation, and creasing can significantly affect the print quality and cause media handling or jamming problems.
- Avoid using card stock that may release hazardous emissions when heated.
- Do not use preprinted card stock manufactured with chemicals that may contaminate the printer. Preprinting introduces semi-liquid and volatile components into the printer.
- Use card stock with a maximum weight of 163 g/m² and a minimum size of 76 x 127 mm (3 x 5 in.).

Tips on storing print media and supplies

Storing paper

Use the following guidelines to avoid paper feeding problems and uneven print quality.

- Store paper in an environment where the temperature is approximately 21°C (70°F) and the relative humidity is 40%.
- Store cartons of paper on a pallet or shelf rather than directly on the floor.
- If you store individual packages of paper out of the original carton, make sure they rest on a flat surface so the edges do not buckle, curl, or become damaged.
- Do not place anything on top of paper packages.

Storing supplies

Choose a cool, clean storage area for your printer supplies. Store supplies *right side up* in their original packaging until you are ready to use them.

Do not expose supplies to:

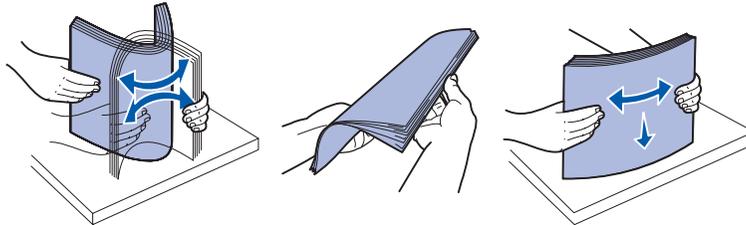
- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity (above 80%)
- Salty air
- Corrosive gases
- Heavy dust

Tips on preventing jams

You can avoid most paper jams by correctly loading paper and specialty media in the printer.

The following hints can help you avoid paper jams:

- Do not load wrinkled, creased, or damp paper.
- Never mix media types within a tray.
- Flex, fan, and straighten paper before you load it.

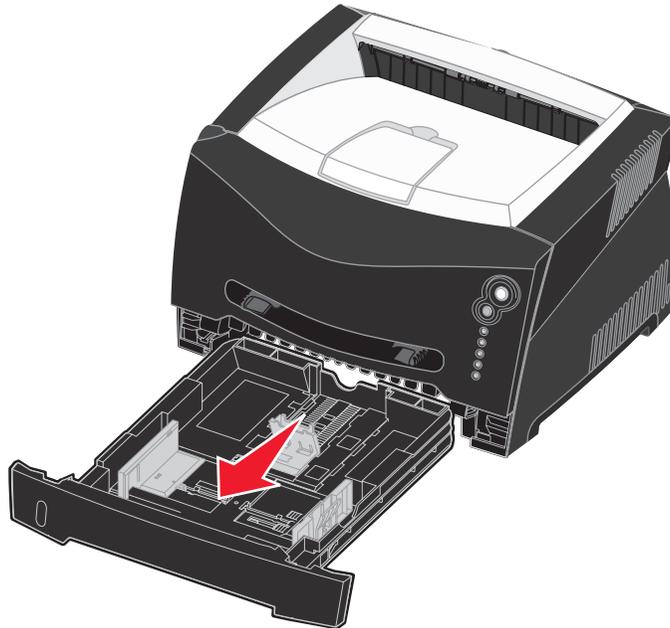


- Do not exceed the maximum stack height.
- Push all trays *firmly* into the printer after loading them.
- Make sure the guides in the trays are positioned snug against the paper or specialty media.
- Do not remove paper trays while a job is printing. Wait for a Load Paper  light sequence (see **Load media on page 53**) before you remove the tray.
- Before loading transparencies, fan the stack to prevent sheets from sticking together.
- Do not use envelopes that:
 - Have excessive curl
 - Are stuck together
 - Are damaged in any way
 - Contain windows, holes, perforations, cutouts, or embossments
 - Have 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 only recommended paper. See the *Card Stock & Label Guide* available on our Lexmark Web site at www.lexmark.com for more information about which paper provides optimum results for your printing environment.
- If you need detailed information before purchasing large quantities of customized paper, See the *Card Stock & Label Guide*.

How to load the 250-sheet tray

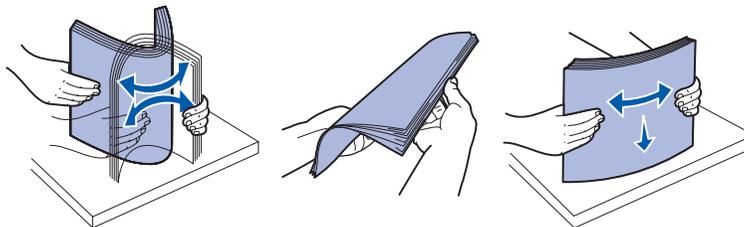
Follow these instructions to load paper in the 250-sheet tray.

- 1 Remove the tray.



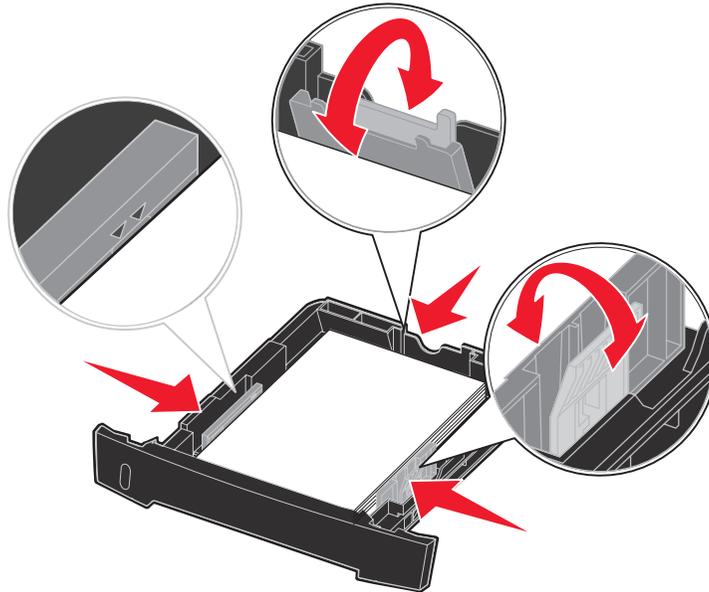
Note: To load legal or folio size paper, you have to extend the length of the paper tray. See **Extending the tray for legal or folio size paper on page 24** for instructions.

- 2 Prepare a stack of paper for loading by flexing and fanning it back and forth. Straighten the edges on a level surface.



How to load the 250-sheet tray

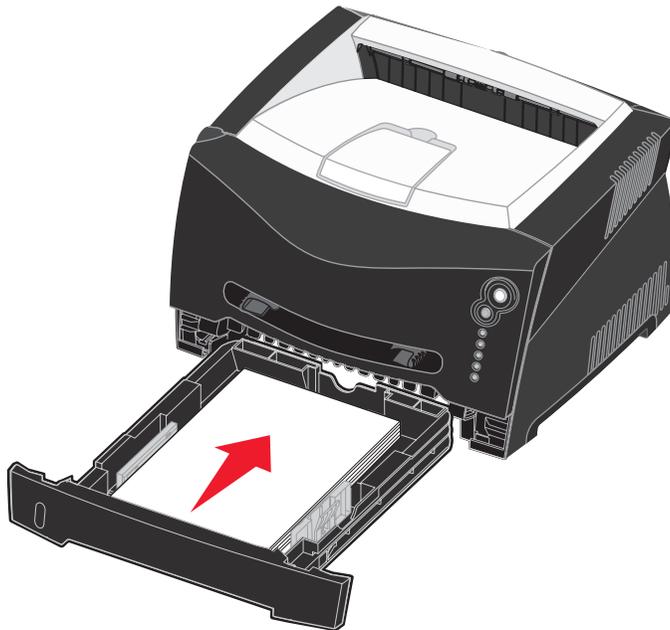
- 3 Load the paper in the tray with the print side facing down.



Note: Load letterhead paper with the design side facing down. The top edge of the sheet with the logo should be placed at the front of the tray.

Make sure the paper is below the max fill line on the side guides. Overloading may cause jams.

- 4 Slide the two side guides and the back guide until they fit snugly against the stack of paper.
- 5 Insert the tray.



How to load the 250-sheet tray

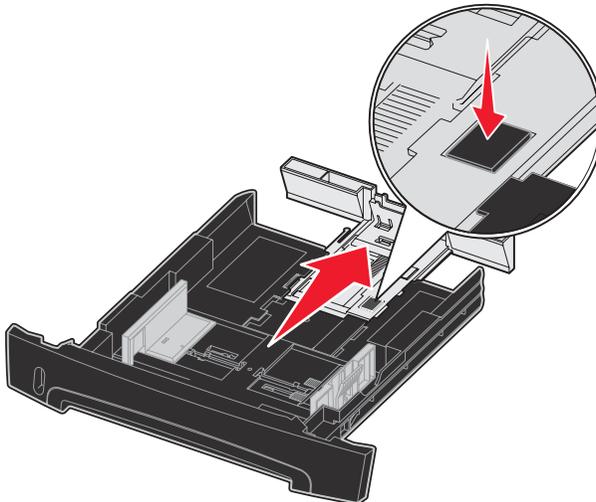
- 6 Extend the paper support on the output bin.



Extending the tray for legal or folio size paper

To load legal or folio size paper, you need to extend the paper tray. You should also attach the dust cover on the back of the printer to protect the tray while it is extended.

- 1 Press down on the latch at the back of the tray.
- 2 Expand the tray until the extender locks into place.

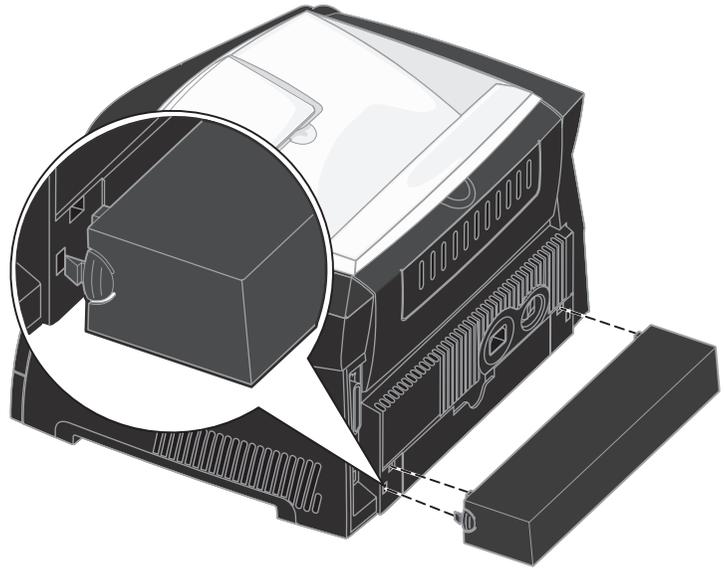


How to load the 250-sheet tray

Attaching the dust cover

The dust cover helps protect the paper tray from the environment as well as keep the tray from being knocked out of position while it is extended.

Attach the dust cover to the back of the printer by aligning the tabs on the cover to the holes on the printer, and *snap* the cover into place.



How to load the manual feeder

The manual feeder is located at the front of your printer and can only feed one sheet of print media at a time. You can use the manual feeder to make quick runs of paper types or sizes that are not currently loaded in the paper tray.

For information on acceptable print media to use in the manual feeder, see **What types of print media can be loaded?** on page 16. Using only the specified print media helps prevent paper jams and print quality problems.

Note: We recommend that you send your print job to the printer prior to loading the manual feeder. See **How to manually feed a print job** on page 31 for more information.

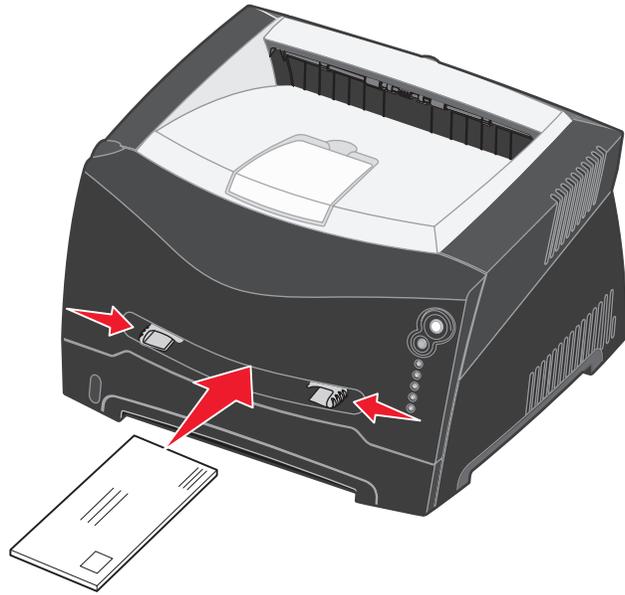
To load the manual feeder:

- 1 Place a sheet of the selected print media, print side facing up, at the center of the manual feeder, but only to the point where its leading edge can contact the paper guides. Otherwise, the printer will engage the print media too soon and likely skew the print job.
- 2 Adjust the paper guides to the print media width.
- 3 Hold both sides of the print media close to the manual feeder, and push it into the printer until it automatically engages.

There is a brief pause between the time the printer engages the print media and when it feeds into the printer.

Warning: Do not force the print media into the feeder. Forcing the media causes jams.

- Insert envelopes with the flap side down and with the stamp area as shown.
- Hold transparencies by the edges, and avoid touching the print side. Oil from your fingers can affect print quality.
- Load letterhead face-up, with the top of the sheet entering first.
- If you experience problems with paper feed, turn the paper over.

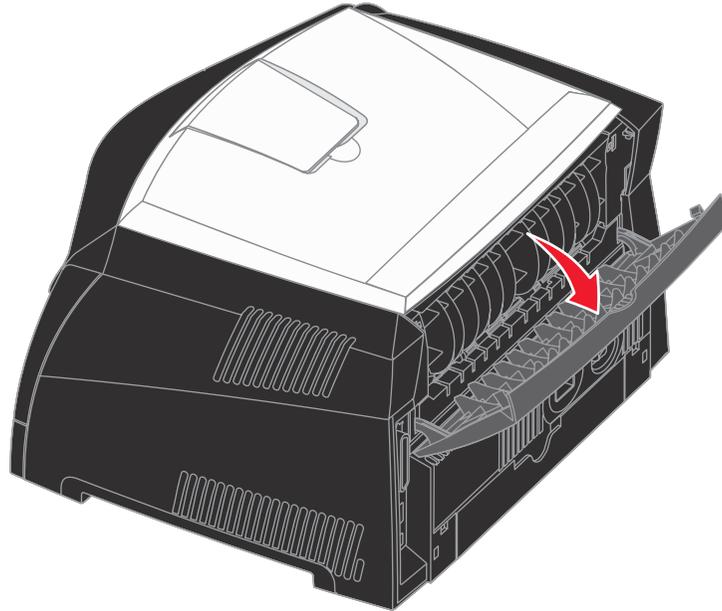


How to use the rear exit

The single-sheet rear exit provides a straight-through paper path to help reduce curling and potential jams. This is especially useful for specialty media, such as transparencies, envelopes, labels, card stock, or index cards.

How to use the rear exit

To use the rear exit, open the rear exit door. When the rear exit door is open, all print media comes out the rear exit. When closed, all media is sent to the output bin on top of the printer.



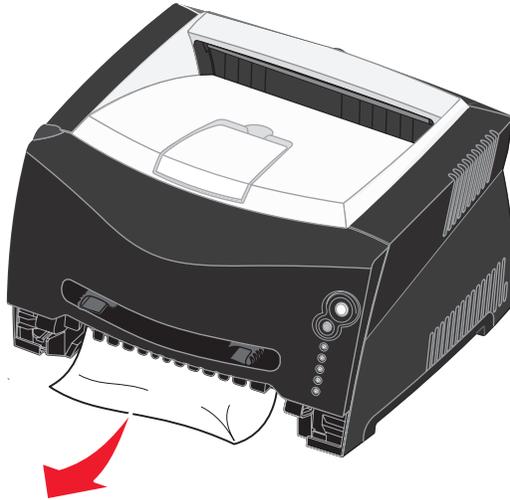
How to clear paper jams

When a paper jam occurs, the printer stops and the operator panel Paper Jam  and Continue  lights come on. Press and release **Continue**  twice quickly to display the specific secondary error paper jam light sequence. See **Secondary error codes on page 61** for more information.

We recommend that you clear the entire paper path when a paper jam occurs.

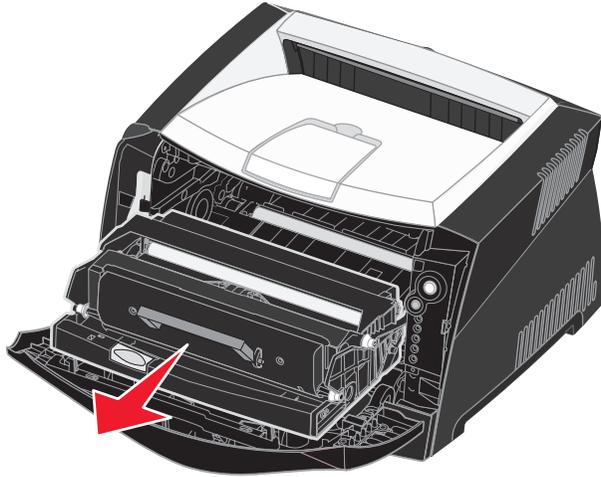
To clear a paper jam:

- 1 If you are feeding paper from a tray, remove the tray, and then remove any jams.



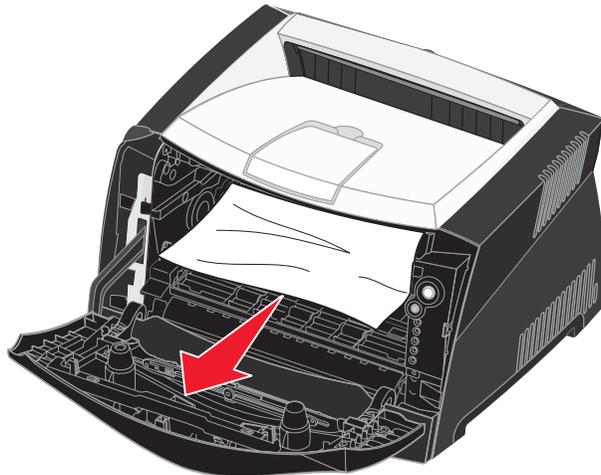
How to clear paper jams

- 2 Open the front cover, and remove the print cartridge assembly.



Warning: Do not leave the print cartridge assembly exposed to direct light for an extended period of time. Extended light exposure can cause print quality problems.

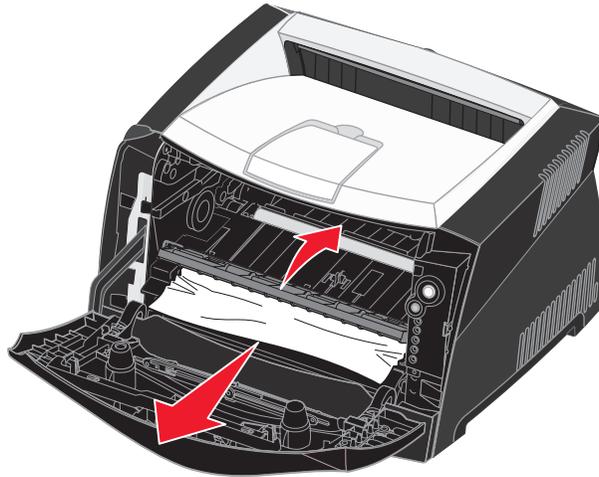
- 3 Remove any jams in the area behind the print cartridge assembly.



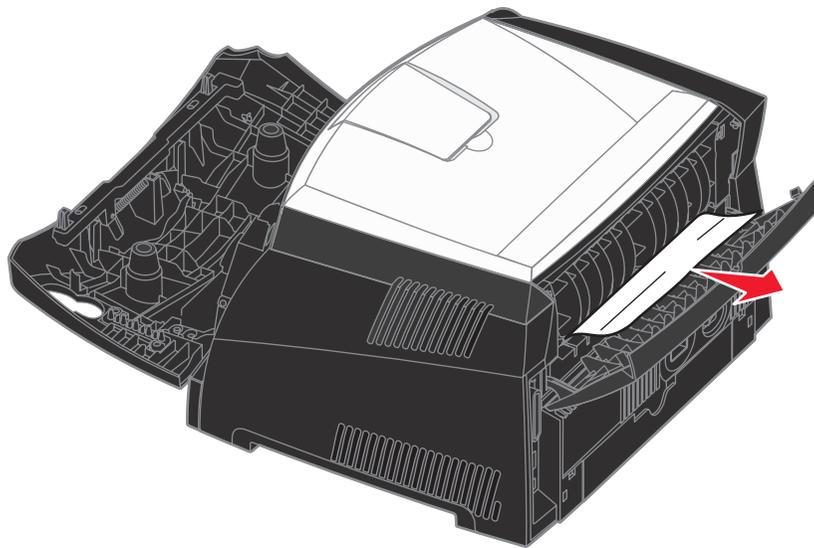
Warning: Fuser or area may be hot.

How to clear paper jams

- 4 Lift the flap at the front of the printer, and remove any jams beneath the flap.



- 5 Open the rear exit, and remove any jams.



Warning: Fuser or area may be hot.

- 6 After you have cleared the jams, reinstall the print cartridge assembly, make sure all printer covers and trays are closed, and then press **Continue**  to resume printing.

Note: Jam recovery is set to Auto by default. When jam recovery is set to Auto, the memory that holds the image of a page may be re-used after the page is printed but before it has successfully exited the printer if that memory is needed for another use. Therefore, a jammed page may or may not be reprinted, depending on the printer's overall memory usage.

4

Printing tasks

How to manually feed a print job

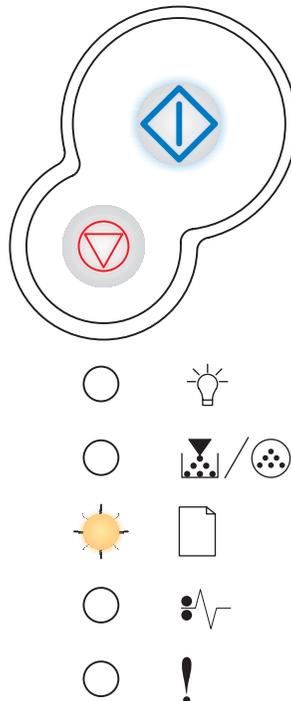
The manual feeder is located at the front of the printer and can only feed one sheet of print media at a time. For information on acceptable print media to use in the manual feeder, see **What types of print media can be loaded? on page 16.**

When using the manual feeder, send the print job to the printer before loading the print media. When the printer is ready, it will display the Load Manual Feeder light sequence, at which point you should load the media.

To manually feed a print job:

- 1 From the computer software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 Click the **Paper** tab.
- 4 Select **Manual paper** from the Paper tray drop-down list.
- 5 Select the appropriate Paper size and type.
- 6 Click **OK**.
- 7 Click **OK** on the Print window to send the job to print.

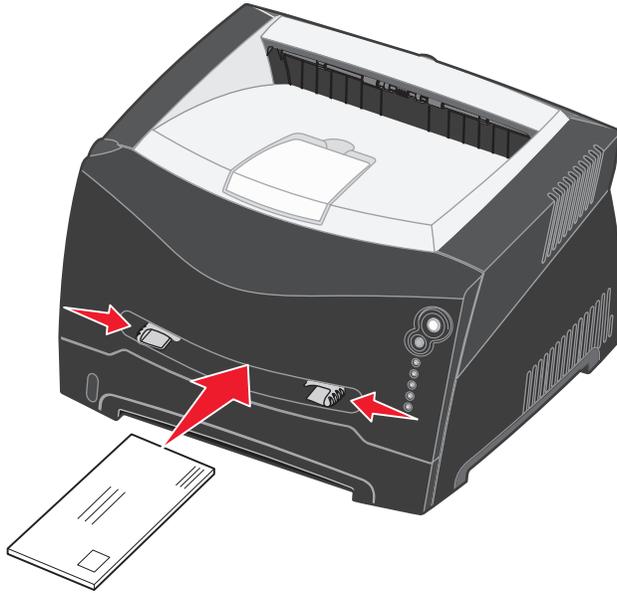
The printer displays the Load Manual Feeder light sequence.



- 8 Place a sheet of the selected print media, print side facing up, at the center of the manual feeder, but only to the point where its leading edge can contact the paper guides.

How to manually feed a print job

- Hold transparencies by the edges and avoid touching the print side. Oil from your fingers can affect print quality.
 - Insert envelopes with the flap side face down and with the stamp area as shown.
 - Load letterhead face up, with the top of the sheet first.
 - If you experience problems with paper feed, turn the paper over.
- 9** Adjust the paper guides to the print media width.
- 10** Hold both sides of the print media close to the manual feeder, and push it into the printer until it automatically engages.



There is a brief pause between the time the printer engages the print media and when it feeds into the printer.

Warning: Do not force the print media into the feeder. Forcing the media causes jams.

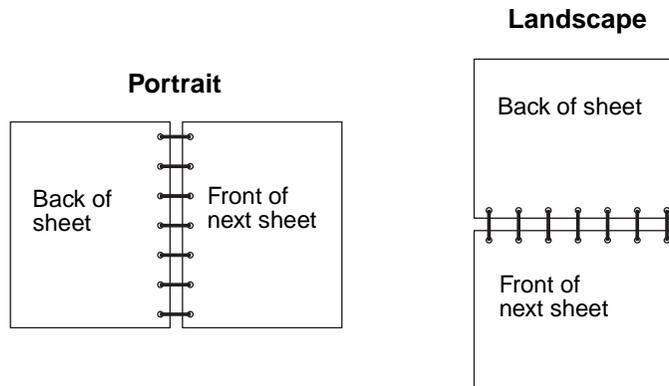
How to print on both sides of the paper (manual duplex)

Printing on both sides of the paper reduces printing costs.

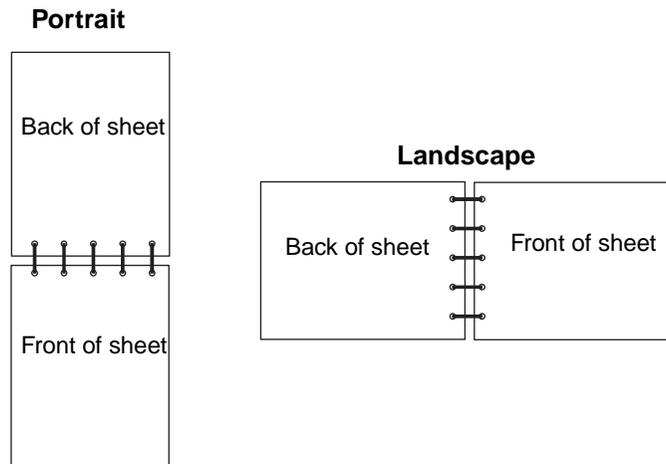
Although you can use Tray 1 or the 550-sheet tray to print the first side of the duplex job, only use Tray 1 to print the second side.

You can choose how you want your job duplexed: Long Edge or Short Edge.

- Long Edge means pages are bound along the long edge of the page (left edge for portrait, top edge for landscape).



- Short Edge means pages are bound along the short edge of the page.



To manually duplex a print job:

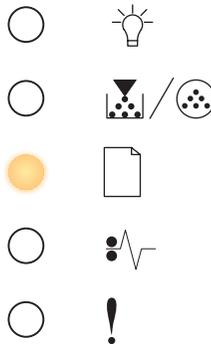
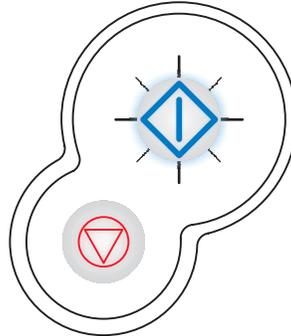
- 1 From the computers software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 From the Page Layout tab, select **2-sided printing**.
- 4 Select either **Long Edge** or **Short Edge**.
- 5 Select **2-sided printing**.
- 6 Click the **Paper** tab.
- 7 Select the appropriate **Input options** for your print job.

How to print on both sides of the paper (manual duplex)

8 Click **OK**.

9 Click **OK** on the Print window.

The printer prints every other page of the document first. Once the first side of your job prints, the Load Paper  light comes on, and the Continue  light blinks.



10 Load the paper back into the printer with the already-printed side up and the top of the page toward the front of the tray.

Note: Manual duplex is not available on a Macintosh computer.

How to print multiple page images on one page (N-up printing)

How to print multiple page images on one page (N-up printing)

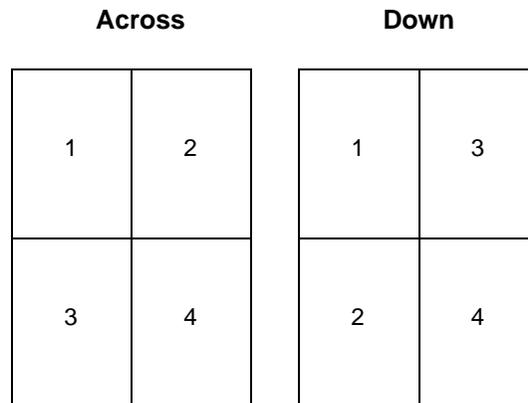
The Multipage Printing (N-up) setting is used to print multiple page images on a single page. For example, 2-Up means two page images are printed on one page, 4-up means four page images are printed on one page, and so on.

The printer uses the Multipage Order, Multipage View, and Multipage Border settings to determine the order and orientation of the page images, and whether a border is printed around each page image.

- 1 From the computer software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 From the Page Layout tab, select the number of images per sheet (from the Multipage printing section) and the orientation you would like the paper to have.

The positioning depends on the number of images and whether the images are portrait or landscape in orientation.

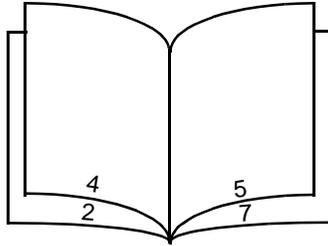
For example, if you select 4-Up multipage printing and portrait orientation, the results differ depending on the Multipage Order value you select:



- 4 To print a visible border around each page image, select **Print page borders**.
- 5 Click **OK**.
- 6 Click **OK** on the Print window to send the job to print.

How to print a booklet

The Booklet setting lets you print multiple pages in booklet form without having to re-format your document so the pages print in the proper order. The pages print so that the finished collated document may be folded along the center of each page to form a booklet.



If the document contains many pages, a booklet may have too many pages to fold easily. If you are printing a fairly large booklet, you might want to use the Sheets per Bundle option to specify how many physical pages are put into one bundle. The printer will print the necessary number of bundles, which you can then bind into one booklet. Printing in bundles helps the outside edge of the pages line up more evenly.

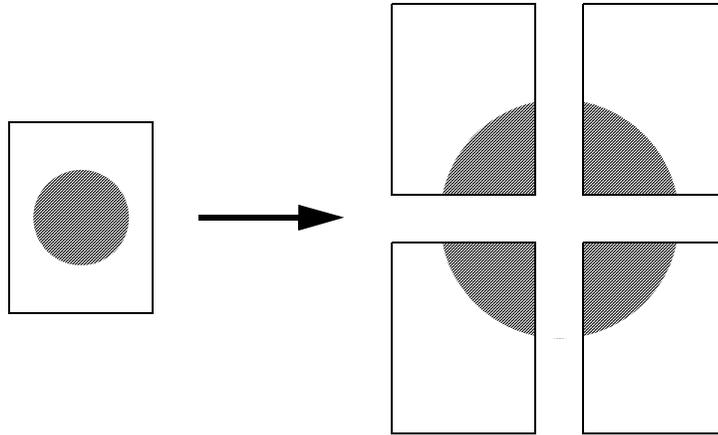
You must specify whether or not you want to print using any Duplex printing options before you select to print using the booklet function. Once you choose Print Using Booklet, the controls for the Duplex options are unavailable and remain at the last setting used.

- 1 From the computer software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 From the Page Layout tab, click **More Page Layout Options**.
- 4 Click **Booklet**.
If your print job is large, you may want to use the **Sheets per Bundle** option.
- 5 Select the appropriate binding edge for your print job.
- 6 To print a visible fold mark on the pages, select **Print fold mark**.
- 7 Click **OK** twice.
- 8 Click **OK** on the Print window to send the job to print.

Note: Booklet printing is not available on a Macintosh computer.

How to print a poster

The Poster setting lets you print a single image across several pages. Once printed, you can combine the pages to create one large image.



- 1 From the computer software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 From the Page Layout tab, click **More Page Layout Options**.
- 4 Click **Poster**.
- 5 Select the poster size you want by choosing the number of pages to use in the poster.
- 6 To print crop marks on the pages, select **Print crop marks**.
- 7 Select the amount of overlap you want each page to have.
- 8 Click **OK** twice.
- 9 Click **OK** on the Print window to send the job to print.

Note: Poster printing is not available on a Macintosh computer.

How to print on letterhead

To print on letterhead, make sure the paper is loaded with the proper orientation.

- 1 Make sure the letterhead is properly loaded according to the paper source you are using:
 - **Tray 1 or 2**—Load the letterhead paper with the design side facing down. The top edge of the sheet with the logo should be placed at the front of the tray.
 - **Manual feeder**—Load the letterhead paper face-up, with the top of the sheet entering first.

Note: If you are using the manual feeder, first send the job to print, then load the letterhead when the printer displays the Load Manual Feeder light sequence (see **How to manually feed a print job on page 31**).

- 2 From the computer software application, select **File → Print**.
- 3 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 4 Click the **Paper** tab.
- 5 Select **Letterhead** from the Paper type drop-down lists.
- 6 Select the appropriate paper size and tray.
- 7 Click **OK**.
- 8 Click **OK** on the Print window to send the job to print.

How to print using an overlay or a watermark

Overlays and watermarks are templates that can be defined and then printed as a background on a form before the data from the current job is printed. Typical examples of overlays include company logos or letterheads, decorative borders, and simulated “preprinted” forms. Overlays can include text, graphics, or images. Watermarks are simple text. You can create overlays and watermarks and then download them directly to the printer, or you can create an overlay or watermark file on your system and then download it to the printer.

Note: To create and download overlays, you must have flash memory installed.

For information about how to create, save, or download an overlay or watermark, see the printer driver Help.

Using an overlay

- 1 From the computer software application, select **File → Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 Click the **Other Options** tab.
- 4 Click **Overlay**.
- 5 Select which pages receive the overlay.
- 6 Select the overlay to use.
- 7 Select whether to place the overlay on top of or underneath the page image in the Overlay placement area.
- 8 Click **OK**.

Using a watermark

- 1 From the computer software application, select **File** → **Print**.
- 2 Click **Properties** (or **Options**, **Printer**, or **Setup**, depending on the application) to view the printer driver settings.
- 3 Click the **Other Options** tab.
- 4 Click **Watermark**.
- 5 Select which pages receive the watermark.
- 6 Select the watermark to use.
- 7 Select whether to place the watermark on top of or underneath the page image in the Watermark placement area.
- 8 Click **OK**.

How to cancel a print job

A print job can be canceled from the operator panel or from your computer. The Cancel job light sequence is displayed on the operator panel while the job is being canceled.

From the printer operator panel

Press and release **Cancel**  to cancel the job currently printing.

From a Windows computer

- 1 Click **Start** → **Settings** → **Printers**.
- 2 Double-click the printer you are using to print the job.
A list of print jobs appears.
- 3 Right-click the document you want to stop printing, and then click **Cancel**.

Canceling a job from a Macintosh computer

Canceling a print job from a computer running Mac OS 9

When you send a job to print, the printer icon for your selected printer appears on the desktop.

- 1 Double-click the printer icon on your desktop.
A list of print jobs appears in the printer window.
- 2 Select the print job you want to cancel.
- 3 Click the trash can button.

Canceling a job from a computer running Mac OS X

When you send a job to print, the printer icon for your selected printer appears in the dock.

- 1 Open **Applications** → **Utilities**, and then double-click **Print Center** or **Printer Setup**.
- 2 Double-click the printer you are printing to.
- 3 In the printer window, select the print job you want to cancel.
- 4 Press **Delete**.

5

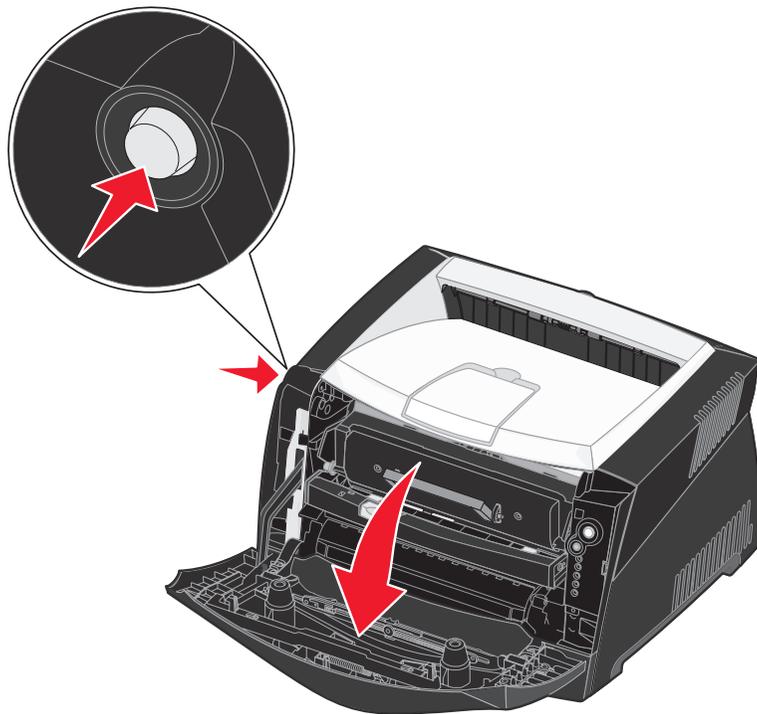
How to install options

How to access the system board

To install memory, you must access the printer system board.

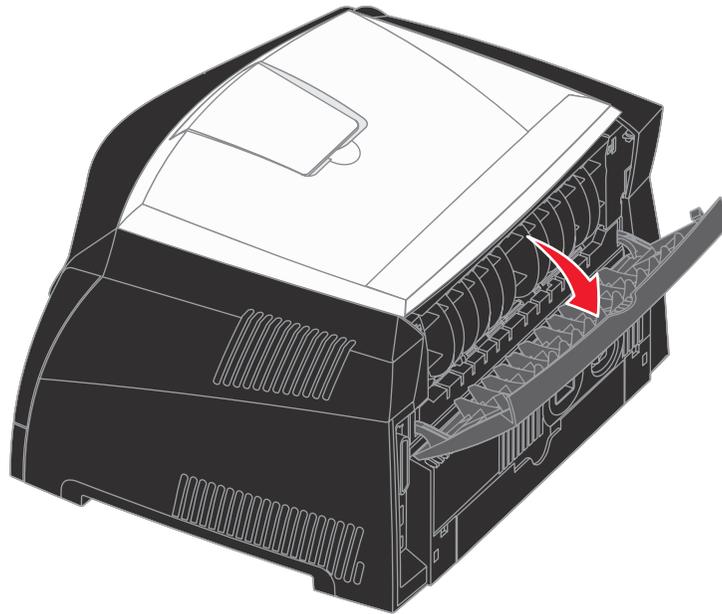
CAUTION: Turn the printer off, and unplug the power cord before continuing.

- 1 Open the front cover by pressing the button on the left side of the printer and lowering the cover.

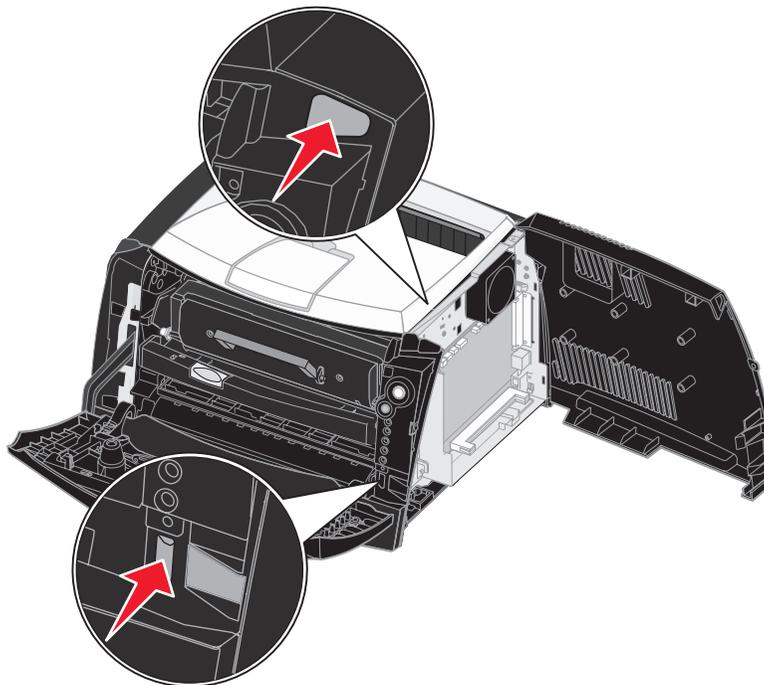


How to access the system board

- 2 Open the rear exit.



- 3 Open the side cover by pressing the two detents on the front right side of the machine and swinging the cover back.



How to add a memory card

The system board has one connector for an optional memory card. The printer can support up to 64MB of additional memory (for a total of 80MB) for the Lexmark E240 and up to 128MB (for a total of 160MB) for the Lexmark E240n.

CAUTION: If you are installing a memory card after setting up the printer, turn the printer off, and unplug the power cord before continuing.

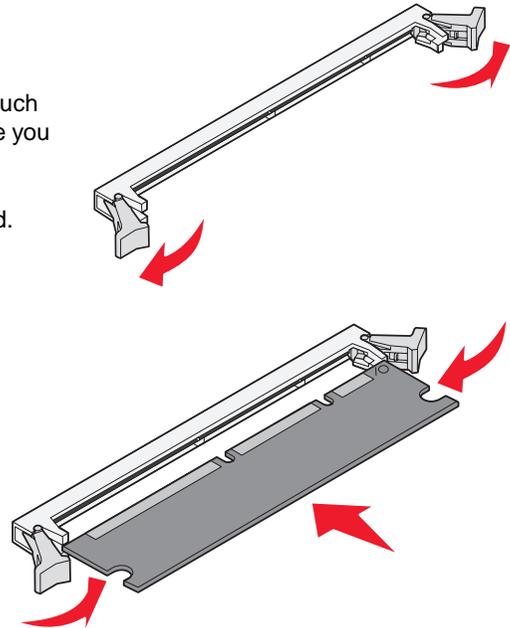
Note: Memory options designed for other Lexmark printers may not work with your printer.

- 1 Access the system board (see **How to access the system board**).
- 2 Push open the latches on both ends of the memory connector.
- 3 Unpack the memory card.

Warning: Memory is easily damaged by static electricity. Touch something metal, such as the printer frame, before you touch a memory card.

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

- 4 Align the notches on the bottom of the card with the notches on the connector.
- 5 Push the memory card firmly into the connector until the latches on either end of the connector *snap* into place.
It may require some force to fully seat the card.
- 6 Make sure each latch fits over the notch on each end of the card.
- 7 Close the side cover.
- 8 Close the rear exit.
- 9 Close the front cover.
- 10 See **Recognizing installed options**.



Recognizing installed options

After the printer is turned on, the printer driver should automatically recognize an option you installed. If it does not, you can add it manually.

Note: If you have not installed your printer driver yet, follow the appropriate instructions under **Software tasks**. After you have installed a printer driver, return here to complete these instructions.

- 1 Click **Start** → **Settings** → **Printers**.
- 2 Select the printers icon.
- 3 Click **File** → **Properties**.
- 4 Click the **Install Options** tab.
- 5 Add the appropriate options to your configuration:
 - **Memory Card**—Increase the printer memory to the appropriate number.
- 6 Click **OK**.

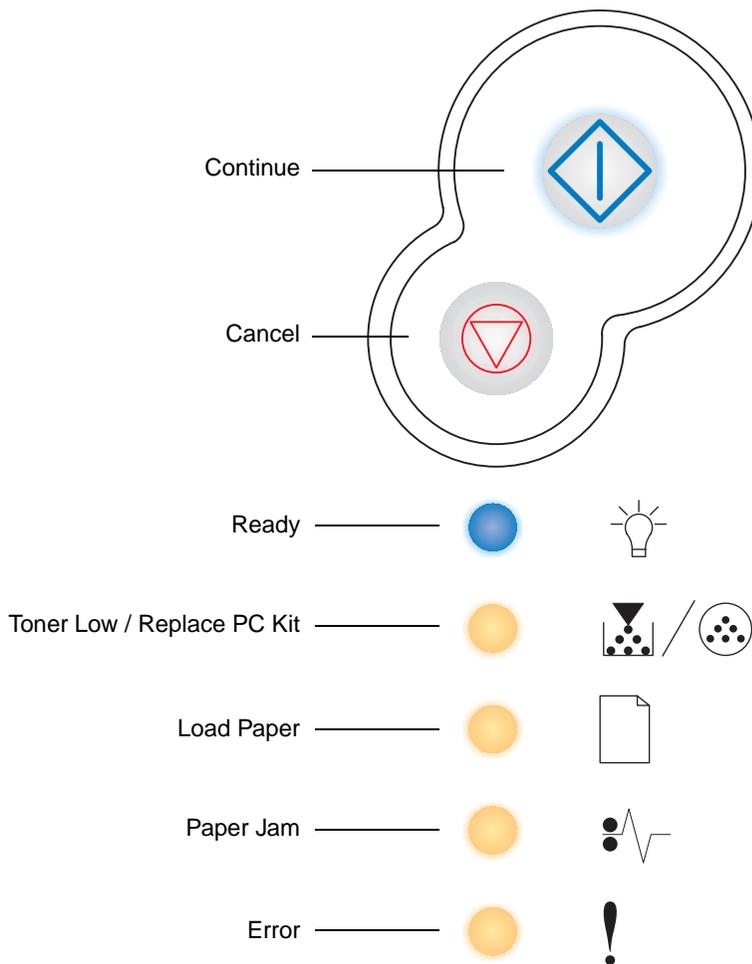
6

Using the operator panel

Overview of the operator panel

The operator panel has 5 lights and 2 buttons.

Note: The Continue button also functions as a light.



- Press and release **Continue**  to resume printing.
- Press and release **Continue**  twice quickly to display a secondary error code.
- Press and release **Cancel**  to cancel the job currently printing.
- Press and hold **Cancel**  until all of the lights come on to reset the printer.

Understanding the operator panel lights

The operator panel lights mean different things, depending on their sequence. Lights that are off, on, and/or blinking indicate printer conditions such as printer status, intervention, or service.

The following tables show the most common light sequences. Click the indicated page for more information on what it means.

Common light sequences

	   = On	   = Blinking	 = Slow blink	Empty = Off							
Printer condition	Ready / Power Saver	Busy	Hex Trace Ready	Waiting	Flushing / Resolution reduced	Not ready (printer is offline)	Close door	Load media	Load manual feeder	Print side two of a duplex job	Toner low
Page:	49	50	50	51	51	52	52	53	53	54	54
 Continue											
 Ready											
 Toner Low / Replace PC Kit											
 Load Paper											
 Paper Jam											
 Error											

Understanding the operator panel lights

Common light sequences (continued)

	= On	= Blinking	= Slow blink								
Printer condition	photoconductor kit life warning	Replace photoconductor	Replace photoconductor (printer hard stop)	Unsupported print cartridge	Change cartridge invalid refill	Cartridge region mismatch	Programming engine code / Programming system code	Cancel job / Reset printer	Service error	Printer error *	Paper jam printer error *
Page:	55	55	56	56	57	57	58	58	59	59	60
Continue											
Ready											
Toner Low / Replace PC Kit											
Load Paper											
Paper Jam											
Error											
* See Secondary errors on page 47 for more information.											

Secondary errors

- When the Error ! and Continue  lights are both on, a secondary error has occurred.
- When the Paper Jam  and Continue  lights are both on, a paper jam secondary error has occurred.

Press and release **Continue**  twice quickly to display the secondary error code light sequence. The following table shows what these light sequences mean and where to go for help.

Understanding the operator panel lights

Secondary Error codes

		= On			= Blinking			Empty = Off				
Printer condition	Paper jam codes						Insufficient printer memory	Insufficient collation area	Font error	Memory full	Short paper	Invalid engine code
	Paper jam at the input sensor *	Paper jam in the manual feeder	Paper jams as it exits the tray into the printer	Paper jams as a printed job exits the printer	Paper jam in Tray 1	Paper jam in Tray 2						
Page:	62	62	63	63	64	64	65	65	66	67	67	68
Continue												
Ready												
Toner Low / Replace PC Kit												
Load Paper												
Paper Jam												
Error												

* Paper jams at the input sensor can be either after the paper leaves the tray and enters the printer or in the manual feeder.

Operator panel codes

Below are explanations of what the primary light sequences, or codes, and secondary error codes mean and what you can do to clear them.

Primary codes

Ready / Power Saver

Light sequence:

- Ready—On

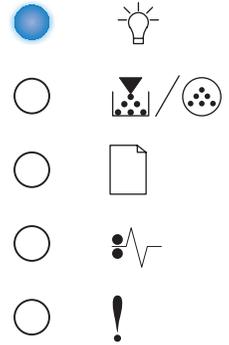
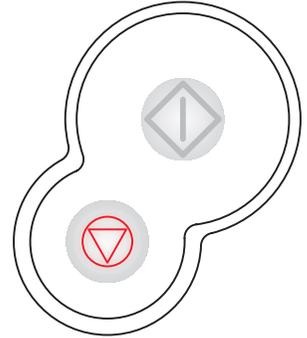
What this light sequence means:

- The printer is ready to receive and process data.
- The printer is in Power Saver mode.

What you can do:

- Send a print job.
- Press **Continue**  to print the menu settings pages for a list of current printer settings.
- Press and hold **Cancel**  to reset the printer.

Note: If you want to change the Power Saver setting, it can only be set from the Local Printer Setup Utility (see **Using the Local Printer Setup Utility on page 74**).



Busy

Light sequence:

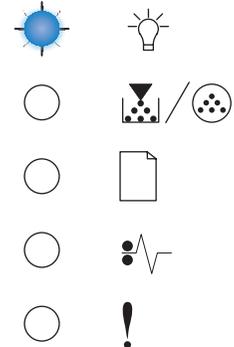
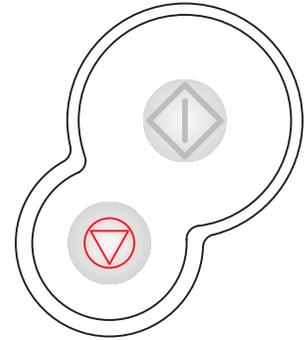
- Ready—Blink

What this light sequence means:

- The printer is busy receiving and processing data or printing.
- The printer is printing a directory, font list, menu settings pages, or Print Quality Test Pages.

What you can do:

- Busy:
 - Wait for the message to clear.
 - Press and release **Cancel**  to cancel the print job.
 - Press and hold **Cancel**  to reset the printer.
- Printing a directory, a font list, menu settings pages, or Print Quality Test Pages:
 - Wait for the pages to print. The Busy message is displayed as the pages print. The Ready light is on when printing stops.
 - Press and release **Cancel**  to cancel printing.
 - Press and hold **Cancel**  to reset the printer.
- Receiving/processing data from a host interface:
 - Wait for the message to clear.
 - Press and release **Cancel**  to stop processing.
 - Press and hold **Cancel**  to reset the printer.



Hex Trace Ready

Light sequence:

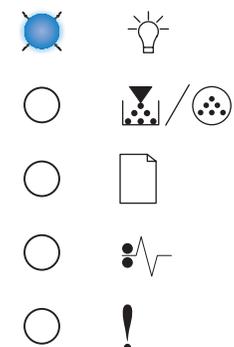
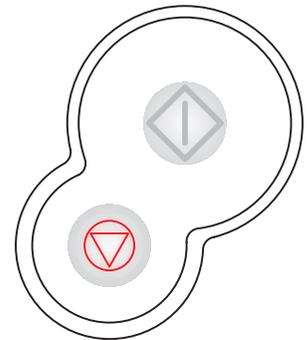
- Ready—Slow blink

What this light sequence means:

The printer is in the Ready mode, and Hex Trace is active.

What you can do:

- Advanced users can use Hex Trace to help troubleshoot printing problems. After resolving the problem, turn off the printer to exit Hex Trace.
- Press and hold **Cancel**  to reset the printer.



Waiting

Light sequence:

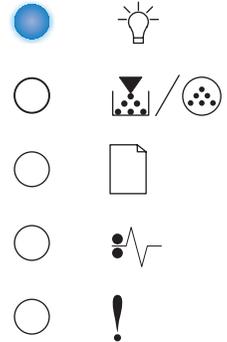
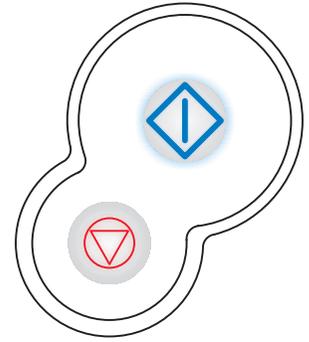
- Continue—On
- Ready—On

What this light sequence means:

The printer is waiting until a print timeout occurs, or until it receives additional data.

What you can do:

- Press **Continue**  to print the contents of the print buffer.
- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.



Flushing / Resolution reduced

Light sequence:

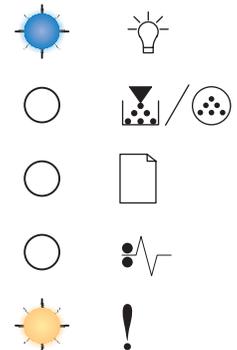
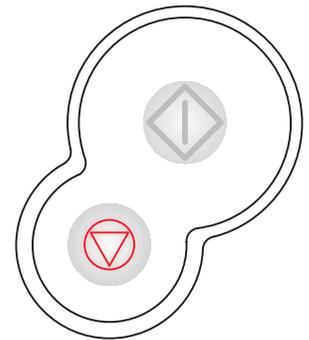
- Ready—Blink
- Error—Blink

What this light sequence means:

- The printer is flushing corrupted print data.
- The printer is processing data or printing pages, but the resolution of a page in the current print job is reduced from 600 dots per inch (dpi) to 300 dpi to prevent a memory full error.

What you can do:

- Wait until the operator panel returns to Ready to print other jobs.
- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.



Not ready

Light sequence:

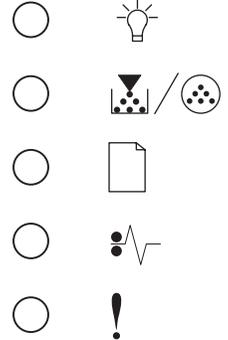
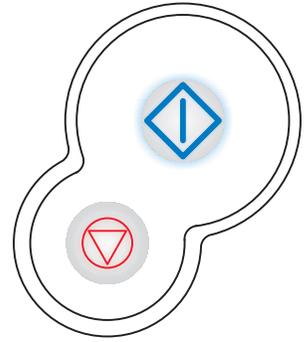
- Continue—On

What this light sequence means:

The printer is not ready to receive or process data, or the printer ports are offline.

What you can do:

- Press **Continue**  to return to the Ready or Busy state.
- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.



Close door

Light sequence:

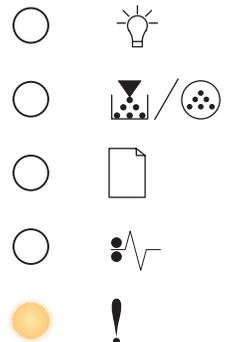
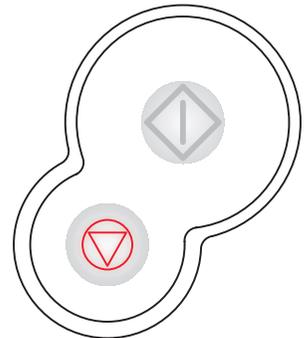
- Error—On

What this light sequence means:

The printer door is open.

What you can do:

Close the door.



Load media

Light sequence:

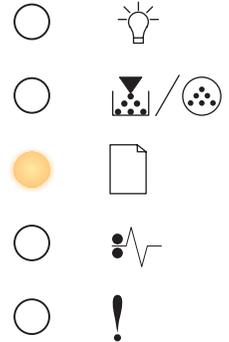
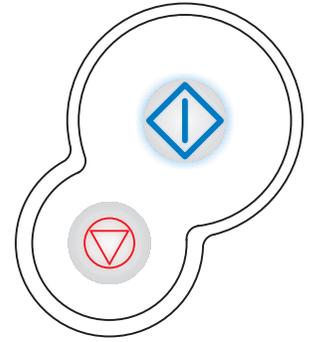
- Continue—On
- Load Paper—On

What this light sequence means:

The printer is out of media, or the media did not feed properly.

What you can do:

- Load media into tray 1 and press **Continue**  to resume printing.
- Check that the media is loaded correctly in tray 1.
- Press **Cancel**  to cancel the print job.



Load manual feeder

Light sequence:

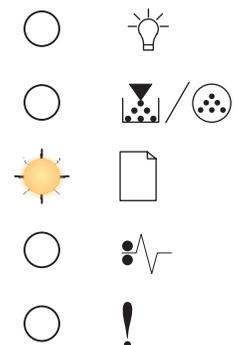
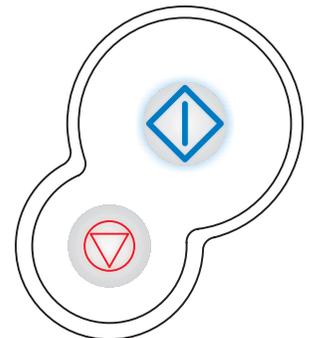
- Continue—On
- Load Paper—Blink

What this light sequence means:

The printer prompts you to load a single sheet of media in the manual feed.

What you can do:

- Load media, with the side to be printed facing up, into the manual feed.
- Press **Continue**  to resume printing.
- Press and hold **Cancel**  to reset the printer.



Print side two of a duplex job

Light sequence:

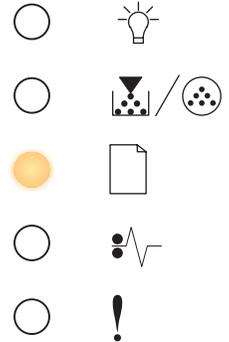
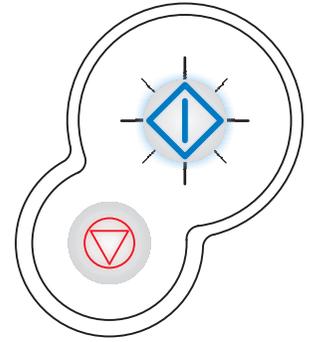
- Continue—Blink
- Load Paper—On

What this light sequence means:

Print the other side of your duplex print job.

What you can do:

- Reinsert your print job in tray 1 using the instructions in the driver pop-up menu to orient the pages correctly. Press **Continue**  to resume printing.
- Press and hold **Cancel**  to reset the printer.



Toner low

Light sequence:

- Toner Low/Replace PC Kit—On

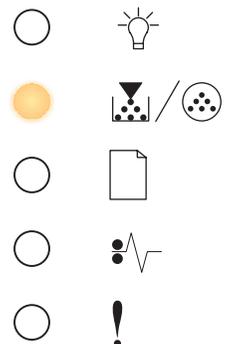
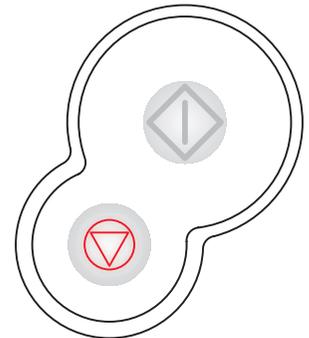
What this light sequence means:

The printer is ready to receive and process data. In addition, the toner in the toner cartridge is getting low.

What you can do:

- Press **Continue**  to print the menu settings page for a list of current printer settings.
- Remove the toner cartridge and shake it to extend the life of the cartridge.
- Replace the toner cartridge. (See **How to change a toner cartridge on page 78** for help.)
- Press and hold **Cancel**  to reset the printer.

Note: This light will not come on if the starter toner cartridge is installed.



Photoconductor kit life warning

Light sequence:

- Continue—On
- Toner Low/Replace PC Kit—Blink

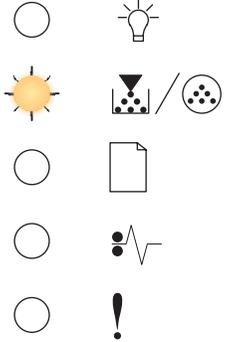
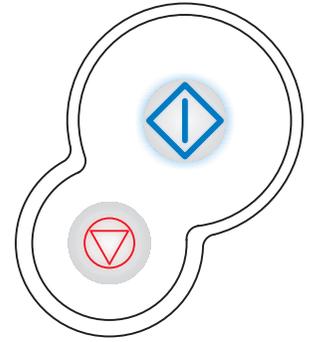
What this light sequence means:

The photoconductor is almost full and will need replacing soon.

Note: The Toner Alarm (see **page 74**) must be turned on for this message to appear.

What you can do:

- Press **Continue**  to resume printing.
- Replace the photoconductor kit. See **How to change a photoconductor kit on page 82** for more information.



Replace photoconductor

Light sequence:

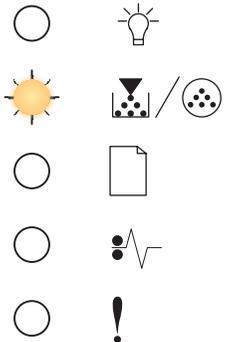
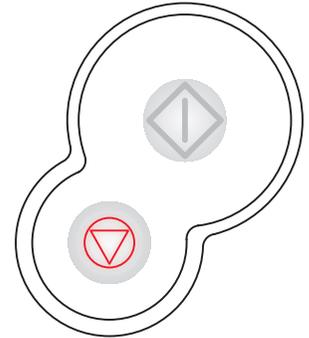
- Toner Low/Replace PC Kit—Blink

What this light sequence means:

The photoconductor kit is full and needs replacing.

What you can do:

- Press **Continue**  to resume printing.
- Replace the photoconductor kit. See **How to change a photoconductor kit on page 82** for more information.



Replace photoconductor (printer hard stop)

Light sequence:

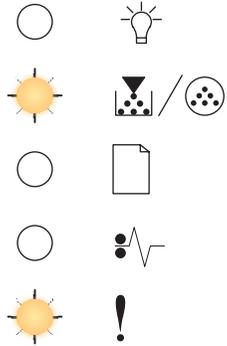
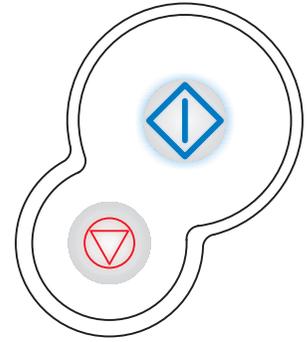
- Continue—On
- Toner Low/Replace PC Kit—Blink
- Error—Blink

What this light sequence means:

The photoconductor kit is full and needs replacing. The printer will not print any more pages until the photoconductor kit is replaced.

What you can do:

Replace the photoconductor kit. (See **How to change a photoconductor kit on page 82** for help.)



Unsupported toner cartridge / Toner cartridge is not installed

Light sequence:

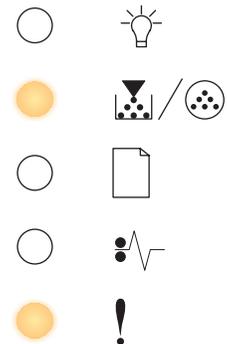
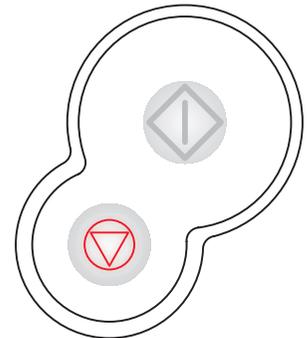
- Toner Low/Replace PC Kit—On
- Error—On

What this light sequence means:

The toner cartridge is not installed, or the printer detects a toner cartridge error.

What you can do:

- If the toner cartridge is not installed, install it.
- If the toner cartridge is installed, remove it and install a new toner cartridge (see **How to change a toner cartridge on page 78**).



Change invalid toner cartridge

Light sequence:

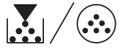
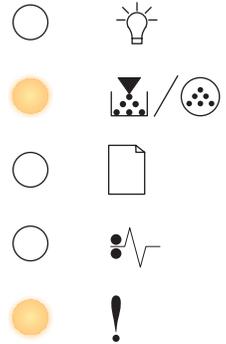
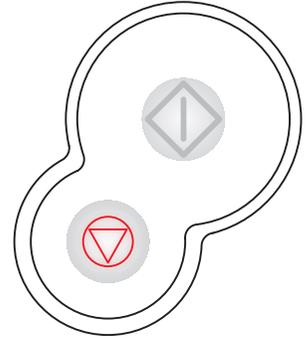
- Toner Low/Replace PC Kit—On
- Error—Blink

What this light sequence means:

The toner cartridge you are using was not designed for your printer.

What you can do:

Install a toner cartridge made for your printer (see **What supplies do I need and how do I order them? on page 75**).



Cartridge region mismatch

Light sequence:

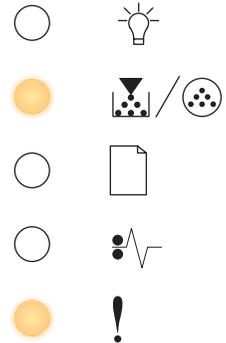
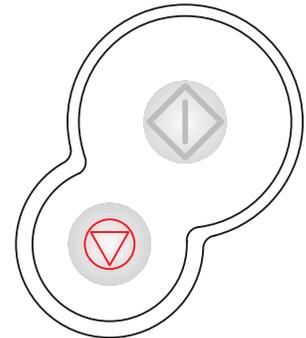
- Toner Low/Replace PC Kit—On
- Error—On

What this light sequence means:

The toner cartridge you are using was not designed to match the region of your printer.

What you can do:

Install a toner cartridge made for your printers region (see **What supplies do I need and how do I order them? on page 75**).



Programming engine code / Programming system code

Light sequence:

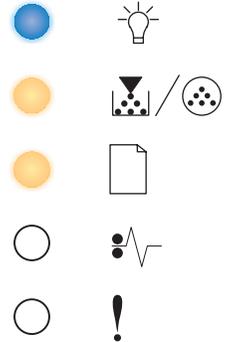
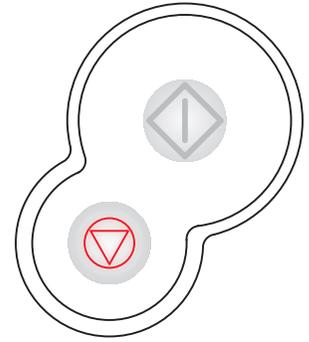
- Ready—On
- Toner Low/Replace PC Kit—On
- Load Paper—On

What this light sequence means:

New code is being programmed into the engine or firmware code flash.

What you can do:

Wait for the message to clear. When the printer has finished programming the code, it performs a soft reset.



Cancel job / Reset printer

Light sequence:

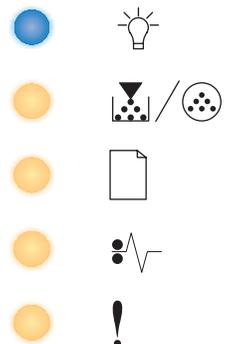
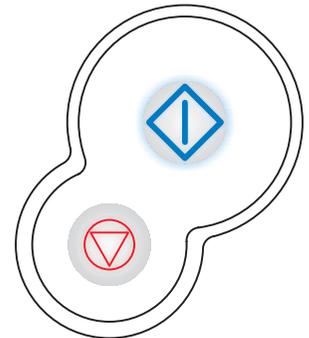
- Continue—On
- Ready—On
- Toner Low/Replace PC Kit—On
- Load Paper—On
- Paper Jam—On
- Error—On

What this light sequence means:

- The current print job is canceled.
- The printer is resetting to the user default settings. Any active print jobs are canceled. A user default setting remains in effect until you change it or until you restore the factory default settings.

What you can do:

Wait for the message to clear.



Service error

Light sequence:

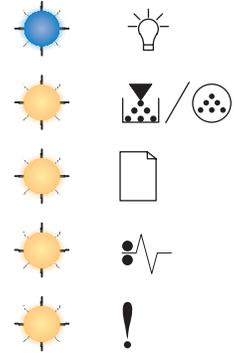
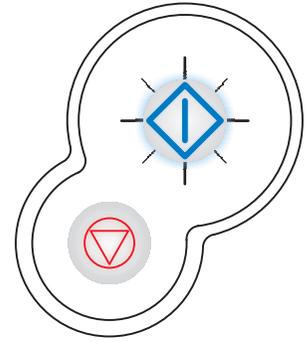
- Continue—Blink
- Ready—Blink
- Toner Low/Replace PC Kit—Blink
- Load Paper—Blink
- Paper Jam—Blink
- Error—Blink

What this light sequence means:

The printer has a service error and printing has stopped.

What you can do:

Turn the printer off and back on. If the lights are still blinking, contact Lexmark Customer Support.



Printer error

Light sequence:

- Continue—On
- Error—On

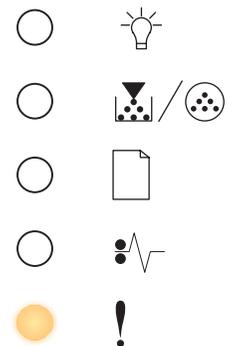
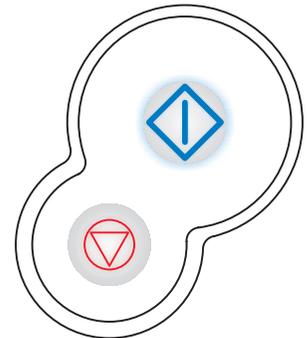
What this light sequence means:

The printer has one of the following errors:

- Memory is full, insufficient to save what is in the buffer.
- A page is too complex to print or is shorter than the set page margins.
- Resolution of a formatted page is reduced to 300 dpi.
- A font error occurred.
- Communication with the host computer is lost.
- Short paper.

What you can do:

- Press **Continue**  twice quickly to see the secondary error code. See **Secondary error codes on page 61** for more information.
- Press **Continue**  to clear the secondary message.



Paper jam printer error

Light sequence:

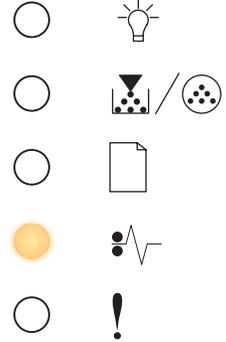
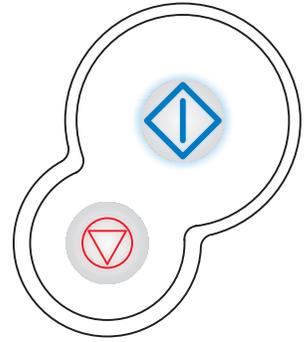
- Continue—On
- Paper Jam—On

What this light sequence means:

The printer has a paper jam.

What you can do:

- Press **Continue**  twice quickly to see the secondary error code. See **Secondary error codes on page 61** for more information.
- Press **Continue**  to resume printing once all the jammed pages are cleared from the paper path.



Secondary error codes

- When the Error ! and Continue  lights are both on, a secondary error has occurred.
- When the Paper Jam  and Continue  lights are both on, a paper jam secondary error has occurred.

Press and release **Continue**  twice quickly to display the secondary error code light sequence. See **Secondary errors on page 47**.

Paper jam at the input sensor

Light sequence:

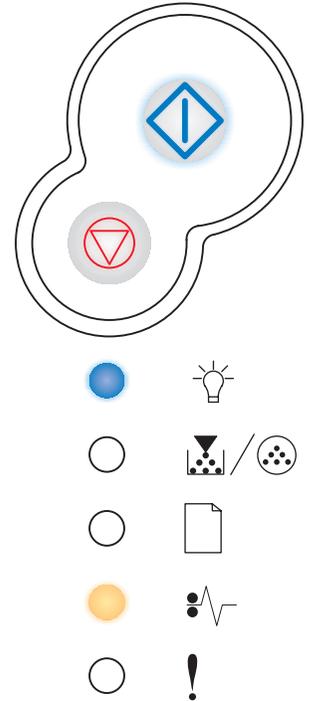
- Continue—On
- Ready—On
- Paper Jam—On

What this light sequence means:

A paper jam has occurred at the input sensor, which can be either after the paper leaves the tray and enters the printer or in the manual feeder.

What you can do:

Clear the paper jam. See **How to clear paper jams on page 28** for more information.



Paper jam in the manual feeder

Light sequence:

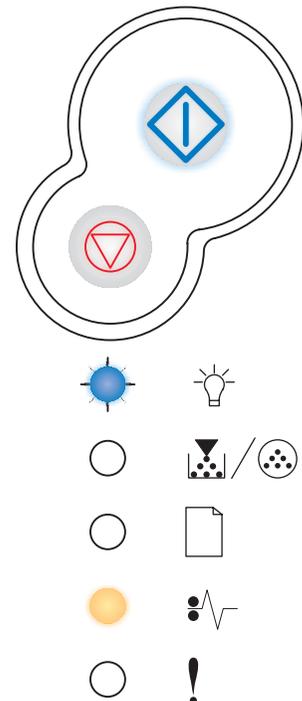
- Continue—On
- Ready—Blink
- Paper Jam—On

What this light sequence means:

A paper jam has occurred in the manual feeder.

What you can do:

Clear the paper jam. See **How to clear paper jams on page 28** for more information.



Paper jams as it exits the tray into the printer

Light sequence:

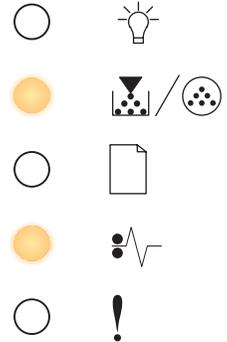
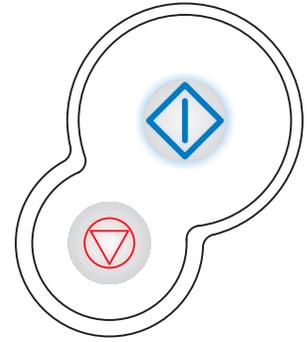
- Continue—On
- Toner Low/Replace PC Kit—On
- Paper Jam—On

What this light sequence means:

A paper jam has occurred as the paper is exiting the paper tray and entering the printer.

What you can do:

Clear the paper jam. See **How to clear paper jams on page 28** for more information.



Paper jams as a printed job exits the printer

Light sequence:

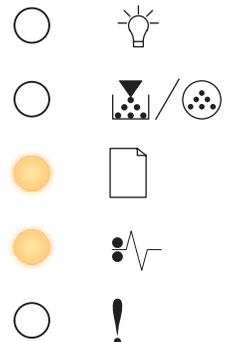
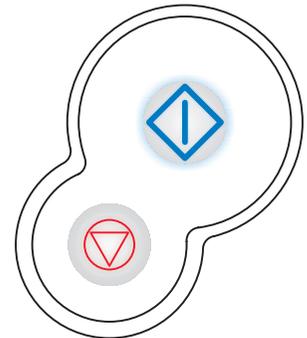
- Continue—On
- Load Paper—On
- Paper Jam—On

What this light sequence means:

A paper jam has occurred as the paper is exiting the printer.

What you can do:

Clear the paper jam. See **How to clear paper jams on page 28** for more information.



Insufficient printer memory

Light sequence:

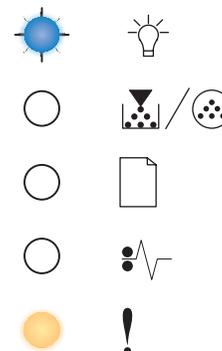
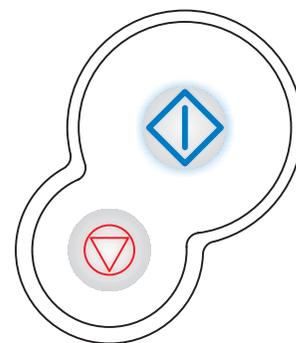
- Continue—On
- Ready—Blink
- Error—On

What this light sequence means:

The printer does not have enough memory to save the data in the buffer.

What you can do:

- Install additional memory (see **How to add a memory card on page 43**).
- Press **Continue**  to continue printing the job.
- Press **Cancel**  to cancel the print job.



Insufficient collation area

Light sequence:

- Continue—On
- Toner Low/Replace PC Kit—On
- Error—On

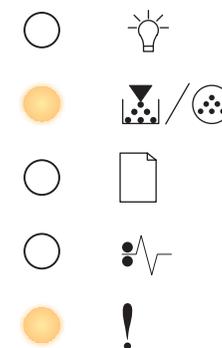
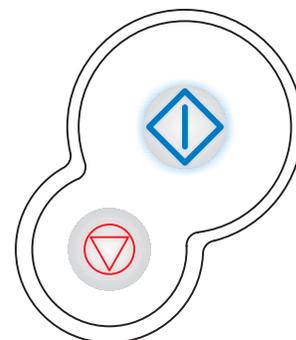
What this light sequence means:

The printer memory does not have the free space necessary to collate the print job. This may happen due to one of these errors:

- Memory is full.
- A page is too complex to print.
- A page is shorter than the set page margins.
- Memory is insufficient to save what is in the buffer.

What you can do:

- Press **Continue**  to clear the message and continue printing the job. (The job may not print correctly.)
- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.
- To avoid this error in the future:
 - Simplify the print job. Reduce the complexity of the page by reducing the amount of text or graphics on the page and deleting unnecessary downloaded fonts or macros.
 - Install additional printer memory (see **How to add a memory card on page 43**).



Font error

Light sequence:

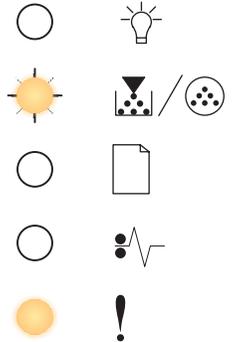
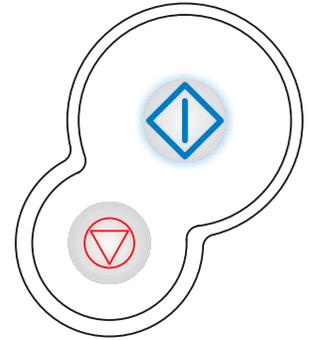
- Continue—On
- Toner Low/Replace PC Kit—Blink
- Error—On

What this light sequence means:

The printer has received a request for a PPDS font which is not installed.

What you can do:

- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.
- Press **Continue**  to clear the message and continue printing.



Host interface disabled

Light sequence:

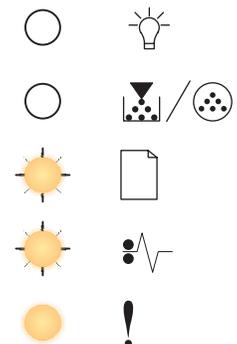
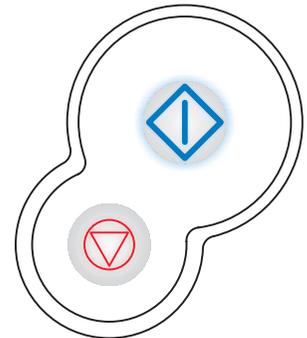
- Continue—On
- Load Paper—Blink
- Paper Jam—Blink
- Error—On

What this light sequence means:

The printer USB or parallel port has been disabled.

What you can do:

- Press **Continue**  to clear the message. The printer discards any print jobs previously sent. Enable the USB or parallel port by selecting a value other than Disabled for the USB Buffer or Parallel Buffer item in the Local Printer Setup Utility (see **Using the Local Printer Setup Utility**).



Memory full

Light sequence:

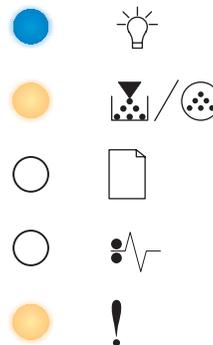
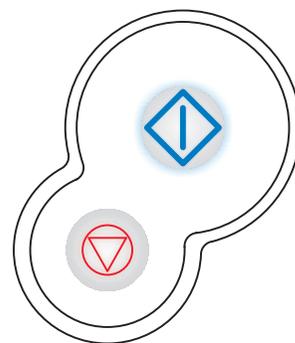
- Continue—On
- Ready—On
- Toner Low/Replace PC Kit—On
- Error—On

What this light sequence means:

The printer is processing data, but the memory used to store pages is full.

What you can do:

- Press **Continue**  to clear the message and continue printing the job (the job may not print correctly).
- Press and release **Cancel**  to cancel the print job.
- Press and hold **Cancel**  to reset the printer.
- To avoid this error in the future:
 - Simplify the print job. Reduce the complexity of the page by reducing the amount of text or graphics on the page and deleting unnecessary downloaded fonts or macros.
 - Install additional printer memory (see **How to add a memory card on page 43**).



Short paper

Light sequence:

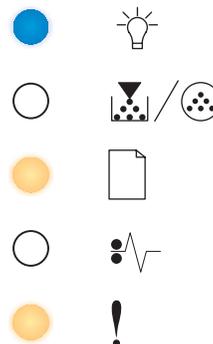
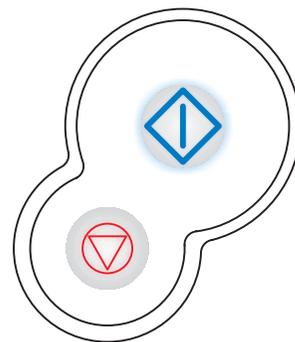
- Continue—On
- Ready—On
- Load Paper—On
- Error—On

What this light sequence means:

The paper length is too short to print the formatted data. This occurs when the printer does not know the media size loaded in the tray, or there is a problem feeding the media.

What you can do:

- Make sure the print media you loaded is large enough.
- Open the front cover, clear the paper path, and close the cover to resume printing (see **How to clear paper jams on page 28**).
- Press **Continue**  to clear the message and continue printing the job.
- Press **Cancel**  to cancel the print job.



Invalid engine code

Light sequence:

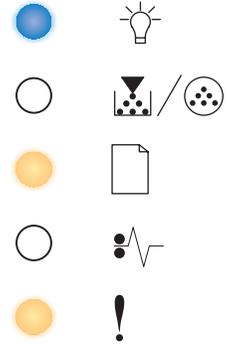
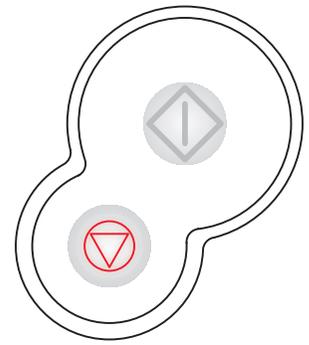
- Ready—On
- Load Paper—On
- Error—On

What this light sequence means:

The engine code has not been programmed, or the programmed code is not valid.

What you can do:

Download valid engine code to the internal print server.



7

Understanding the printer configuration menus

Printing the Printer Settings Configuration sheet

To help resolve printing problems or to change printer configuration settings, advanced users can print the Printer Settings Configuration sheet for instructions on advancing through the configuration menus to select and save new settings.

To print the Printer Settings Configuration sheet:

- 1 Turn off the printer.
- 2 Open the front cover.
- 3 Press and hold **Continue**  as you turn the printer back on.
All the lights cycle.
- 4 Close the cover. The light sequence that represents the Home menu is displayed.
- 5 To print the Printer Settings Configuration sheet, press and hold **Continue**  until the lights cycle. The sheet prints.

Note: The sheet only prints when the Home menu is displayed.

Configuration menus overview

Menus are represented by **Ready** , **Toner Low/Replace PC Kit**  / , **Load Paper** , and **Paper Jam**  light sequences. Menu items and their settings are indicated by **Error**  and **Continue**  light sequences.

- Press and release **Cancel**  to advance through menus and menu items.
- Press and release **Continue**  to advance to the setting you need.
- Press and hold **Continue**  until all of the lights cycle to save a setting.
- Press and hold **Cancel**  until all of the lights cycle to return to the Home menu.
- Turn off the printer to exit the menus.

Configuration menus overview

Parallel menu

Use the Parallel menu to change printer settings on jobs sent through a parallel port.

Setting	Use this setting to	Values
NPA Mode	Send print jobs to the printer and query printer status information simultaneously.	<ul style="list-style-type: none">• Off• On• Auto*
Protocol	Receive information at a much higher transmission rate if your printer is set to Fastbytes (if your computer supports Fastbytes), or receive information at a normal transmission rate if your printer is set to Standard.	<ul style="list-style-type: none">• Standard• Fastbytes*
Parallel Mode 2	Determine whether the parallel port data is sampled on the leading (On) or trailing (Off) edge of strobe.	<ul style="list-style-type: none">• Off• On*
Mac Binary PS	Configure the printer to process Macintosh binary PostScript print jobs.	<ul style="list-style-type: none">• Off—The printer filters PostScript print jobs using standard protocol.• On—The printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. This setting often causes Windows print jobs to fail.• Auto*—The printer processes print jobs from computers using either Windows or Macintosh operating systems.
* Factory default		

Setup menu

Use the Setup menu to configure how the printer formats the end of a line depending on the computer system being used.

Setting	Use this setting to	Values
Auto CR after LF	Specify whether the printer automatically performs a carriage return after a line feed control command.	<ul style="list-style-type: none">• Off*• On
Auto LF after CR	Specify whether the printer automatically performs a line feed after a carriage return control command.	<ul style="list-style-type: none">• Off*• On
* Factory default		

Configuration menus overview

USB menu

Use the USB menu to change printer settings on jobs sent through a Universal Serial Bus (USB) port.

Setting	Use this setting to	Values
NPA Mode	Send print jobs to the printer and query printer status information simultaneously.	<ul style="list-style-type: none"> • Off • On • Auto*
Mac Binary PS	Configure the printer to process Macintosh binary PostScript print jobs.	<ul style="list-style-type: none"> • Off—The printer filters PostScript print jobs using standard protocol. • On—The printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. This setting often causes Windows print jobs to fail. • Auto*—The printer processes print jobs from computers using either Windows or Macintosh operating systems.
* Factory default		

Utilities menu

Use the Utilities menu to troubleshoot printer problems.

Setting	Use this setting to	Values
Reset Factory Defaults	<p>Return your printer settings to the factory default values. Sometimes resetting the printer to the original settings solves formatting problems. All menu items are reset to the factory default values except:</p> <ul style="list-style-type: none"> • Display Language. • All settings in the Parallel menu, Network menu, LocalTalk menu, and USB menu. <p>All downloaded resources (fonts, macros, and symbol sets) in printer memory (RAM) are deleted. Resources in flash memory are unaffected.</p>	
Reset Photoconductor Counter	<p>Return the photoconductor counter to zero.</p> <p>The replace photoconductor message should be cleared <i>only</i> when the imaging drum has been replaced.</p>	
Hex Trace	<p>Help isolate printing problems when unexpected characters print or characters are missing. Hex Trace helps you determine if there is a problem with the language interpreter or the cable by telling you what information your printer is receiving. To exit Hex Trace, turn off the printer.</p>	<ul style="list-style-type: none"> • Off* • On
Print Quality Test Pages	<p>Help isolate print quality problems, such as streaking. When you select this setting, three pages print to help you evaluate print quality:</p> <ul style="list-style-type: none"> • A text page with printer information, cartridge information, current margin settings, and a graphic. • Two pages with graphics. 	
* Factory default		

8

Software tasks

How to print the menu settings page

To print the menu settings page and network setup page, press the **Continue**  button from the Ready state.

- On the menu settings page:
 - Verify that the options you installed are correctly listed under “Installed Features.”
If an option is not listed under Installed Features, turn off the printer, unplug the power cord, and reinstall the option.
 - Verify the amount of memory installed is correctly listed under “Printer Information.”
 - Verify that the paper trays are configured for the sizes and types of paper you loaded.

How to print a test page

Windows

- 1 Click **Start** → **Settings** → **Printers**.
- 2 Select your printer.
- 3 Click **File** → **Properties**.
- 4 Click **Print Test Page**.

Using the Local Printer Setup Utility

The Local Printer Setup Utility, located on the drivers CD, lets you change printer settings not available from your printer driver (for example, activating Alarm Control if you want the printer to sound an alarm when it needs attention).

Click **View Documentation** on the drivers CD for instructions on installing and using the Local Printer Setup Utility on your computer.

You can change the following settings using the Local Printer Setup Utility:

Finishing Settings	Paper Settings	Parallel Settings	PCL Emulation Settings
<ul style="list-style-type: none"> • Copies • Blank Pages • Collation • Separator Sheets • Separator Source • Multipage Print • Multipage Order • Multipage View • Multipage Border 	<ul style="list-style-type: none"> • Paper Source • Paper Size* • Paper Type* • Custom Types† • Substitute Size • Paper Texture‡ • Paper Weight‡ • Paper Loading‡ 	<ul style="list-style-type: none"> • PCL SmartSwitch • PS SmartSwitch • Parallel Buffer • Advanced Status • Honor Init 	<ul style="list-style-type: none"> • Orientation • Lines Per Page • A4 Width • Tray Renumber* • Auto CR after LF • Auto LF after CR
PostScript Settings	Quality Settings	Setup Settings	USB Settings
<ul style="list-style-type: none"> • Print PS Error • Font Priority 	<ul style="list-style-type: none"> • Print Resolution • Toner Darkness • PictureGrade™ 	<ul style="list-style-type: none"> • Printer Language • Power Saver • Resource Save • Download Target • Print Timeout • Wait Timeout • Auto Continue • Jam Recovery • Page Protect • Print Area • Display Language • Toner Alarm 	<ul style="list-style-type: none"> • PCL SmartSwitch • PS SmartSwitch • USB Buffer
* Per supported sources † Per custom type number ‡ Per supported media			

9

Supplies information

What supplies do I need and how do I order them?

There are only two supply items that have to be replaced on a regular basis: the toner cartridge and the photoconductor kit, which together comprise the print cartridge assembly. The photoconductor kit typically lasts up to 30,000 pages (at approximately 5% coverage), whereas the toner cartridge has to be replaced more frequently. How often the toner cartridge needs replacing depends on which cartridge you purchase and the average amount of toner coverage you have on your print jobs.

Within the United States or Canada, you can order Lexmark supplies from any authorized Lexmark supplies dealer. To locate the dealer nearest you, call 1-800-539-6275. In other countries or regions, visit the Lexmark online store at www.lexmark.com, or contact the place where you bought your printer.

The recommended supplies specifically designed for the printer are:

Part number	Description	Average cartridge yield
12A8302	Photoconductor kit	30,000 standard pages ¹
23820SW	Print Cartridge	2,000 standard pages ²
23800SW	Return Program Print Cartridge	2,000 standard pages ²

¹ Approximately 5% coverage.
² Declared yield value in accordance with ISO/IEC 19752.

Storing supplies

Choose a cool, clean storage area for your printer supplies. Store supplies *right side up* in their original packaging until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity (above 80%)
- Salty air
- Corrosive gases
- Heavy dust

How to conserve supplies

Conserving supplies lowers printing costs.

- When printing drafts, conserve toner by changing the Toner Darkness setting in your printer driver. The settings range from 1 (very light) to 10 (very dark), with 8 being the default. Setting the Toner Darkness to 1 conserves the most toner.
- Reduce paper consumption by printing on both sides of the paper.

How to know when you need new supplies

The following sections describe ways to determine when new supplies are needed.

Checking the toner and photoconductor levels

You can determine approximately how much toner is left in your cartridge and how full the photoconductor is by printing a menu settings page. This helps you decide when you might need to order replacement supplies. For help printing a menu settings page, see **How to print the menu settings page on page 73**.

The **Toner low** light sequence (see **page 54**) is displayed when the toner cartridge is nearly empty. You can still print for a short time while this sequence is displayed, but print quality begins to decrease as the toner level decreases.

Note: The **Toner low** light sequence does not appear if the 1500-page starter print cartridge is installed.

When the toner light sequence appears, or when you experience faded print, remove the toner cartridge. Firmly shake it side to side and front to back several times to redistribute the toner and reinsert it. Repeat this procedure multiple times. If the print remains faded, replace the toner cartridge.

To ensure print quality and to avoid damage to the printer, the printer stops operating after the photoconductor has reached a maximum of 40,000 pages. (See **Replace photoconductor (printer hard stop) on page 77** for the light sequence associated with this stop.) The printer automatically notifies you before the photoconductor reaches this point.

When you first receive the "Replace photoconductor kit" light sequence, you should immediately order a new photoconductor kit. While the printer may continue to function properly after the photoconductor kit has reached its official end-of-life (approximately 30,000 pages), print quality begins to significantly decrease until the photoconductor stops operating at the maximum of 40,000 pages.

How to know when you need new supplies

Recognizing the operator panel light sequences

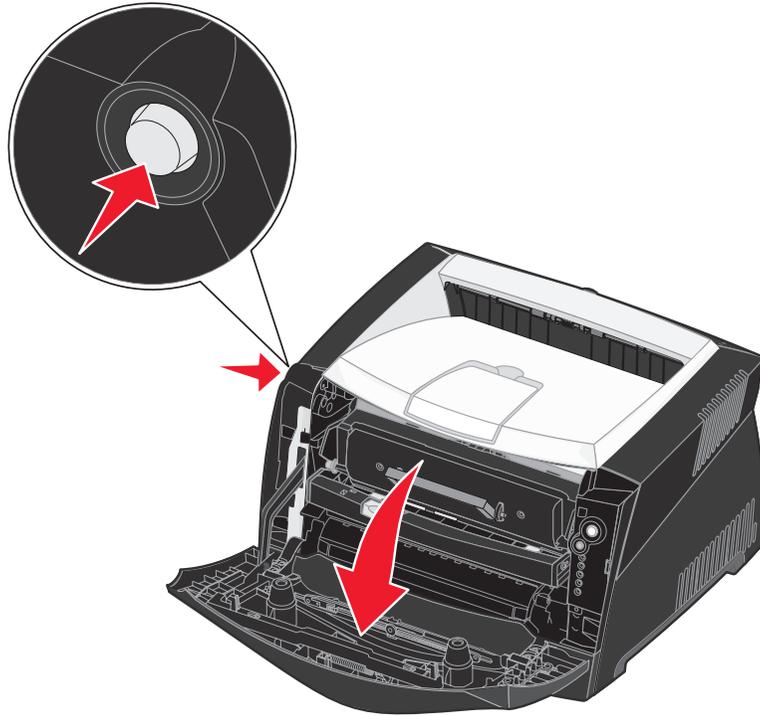
The operator panel displays certain light sequences to let you know when the toner level is low or when it's time to replace the photoconductor kit.

Printer condition	Toner low	Photoconductor kit life warning	Replace photoconductor	Replace photoconductor (printer hard stop)*
For more information, see page:	54	55	55	56
Continue 				
Ready 				
Toner Low/ Replace PC Kit 				
Load Paper 				
Paper Jam 				
Error 				
* If the operator panel lights display this sequence, the printer will not print any more jobs until the photoconductor kit is replaced.				

Note: The operator panel may also display other light sequences in conjunction with the “Toner low” and “Replace photoconductor kit” lights.

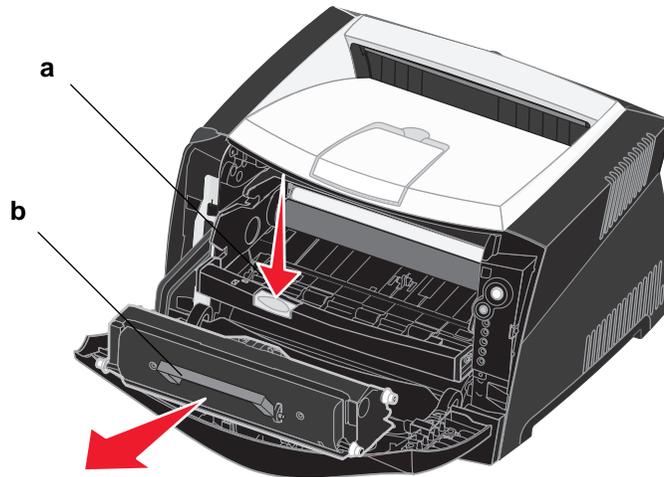
How to change a toner cartridge

- 1 Open the front cover by pressing the button on the left side of the printer and lowering the cover.



How to change a toner cartridge

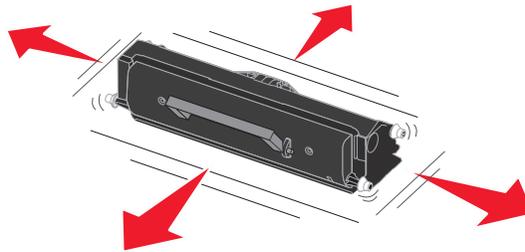
- 2 Remove the toner cartridge:
 - a Press the button on the base of the print cartridge assembly.
 - b Pull the toner cartridge up and out using the handle.



- 3 Unpack the new toner cartridge.

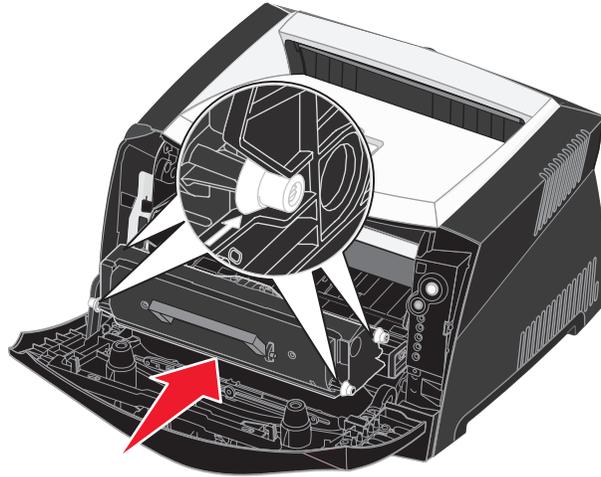
Note: You can use the packing material from the new cartridge to ship the old cartridge back to Lexmark for recycling. See **Recycling Lexmark products on page 81** for more information.

- 4 Firmly shake the cartridge in all directions to distribute the toner.



How to change a toner cartridge

- 5 Install the new toner cartridge by aligning the white rollers on the toner cartridge with the white arrows on the tracks of the photoconductor and pushing the toner cartridge in as far as it will go. The cartridge *clicks* into place when correctly installed.



- 6 Close the front cover.

Recycling Lexmark products

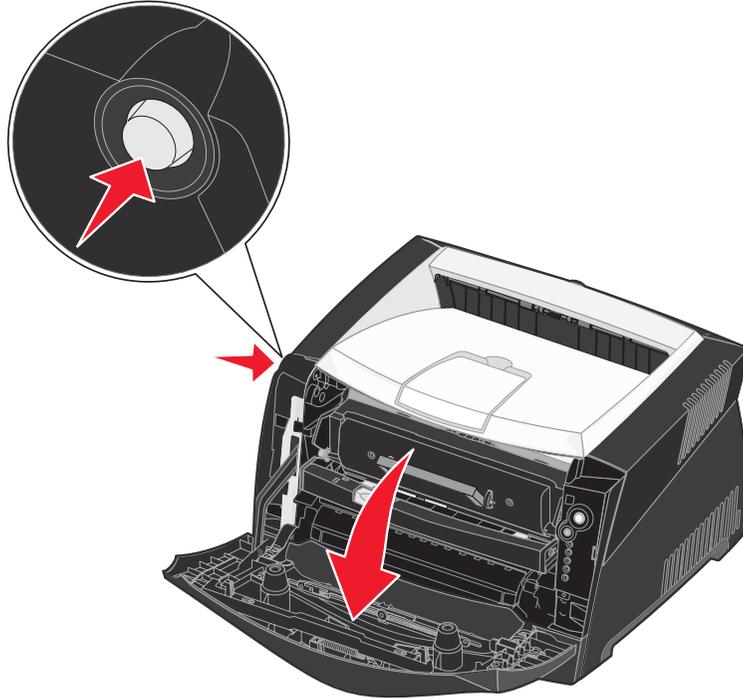
To return Lexmark products to Lexmark for recycling:

- 1 Visit our Web site:
www.lexmark.com/recycle
- 2 Follow the instructions on the computer screen.

How to change a photoconductor kit

Warning: When replacing a photoconductor kit, do not leave the toner cartridge or the new photoconductor kit exposed to direct light for an extended period of time. Extended light exposure can cause print quality problems.

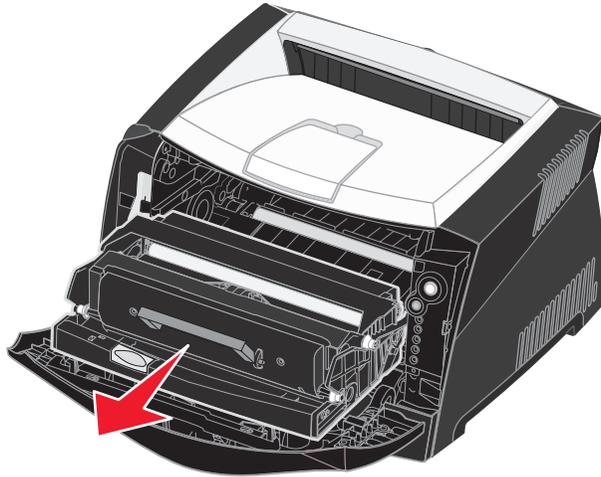
- 1 Open the front cover by pressing the button on the left side of the printer and lowering the cover.



How to change a photoconductor kit

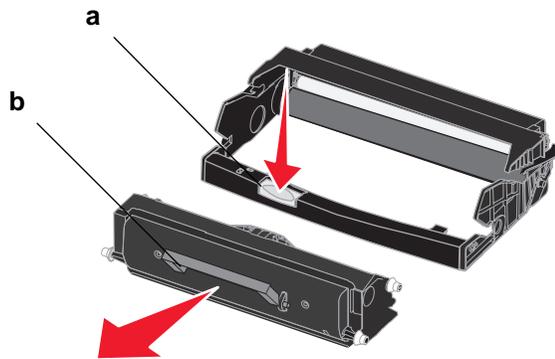
- 2 Pull the print cartridge assembly out of the printer by pulling on the toner cartridge handle.

Note: Do not press the button on the print cartridge assembly.



Place the print cartridge assembly on a flat, clean surface.

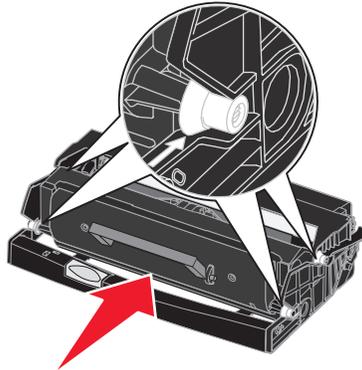
- 3 Remove the toner cartridge:
 - a Press the button on the base of the print cartridge assembly.
 - b Pull the toner cartridge up and out using the handle.



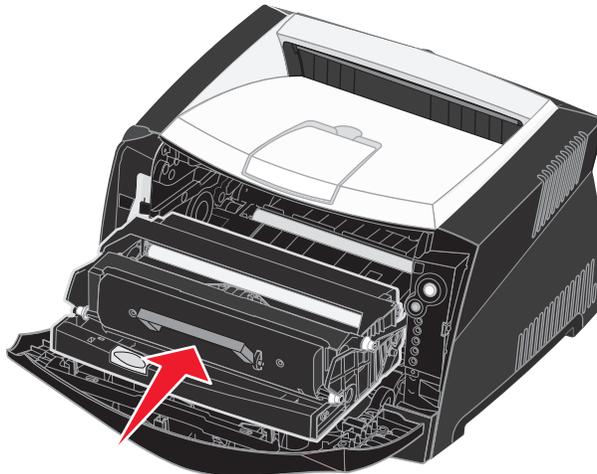
- 4 Unpack the new photoconductor kit.

How to change a photoconductor kit

- 5 Install the toner cartridge into the new print cartridge assembly by aligning the white rollers on the toner cartridge with the white arrows on the tracks of the photoconductor and pushing the toner cartridge in as far as it will go. The cartridge *clicks* into place when correctly installed.



- 6 Install the print cartridge assembly into the printer by aligning the green arrows on the guides of the print cartridge assembly with the green arrows on the tracks in the printer and pushing the print cartridge assembly in as far as it will go.



- 7 Close the front cover.

Note: For information about resetting the imaging drum counter, see the instruction sheet that shipped with the new kit.

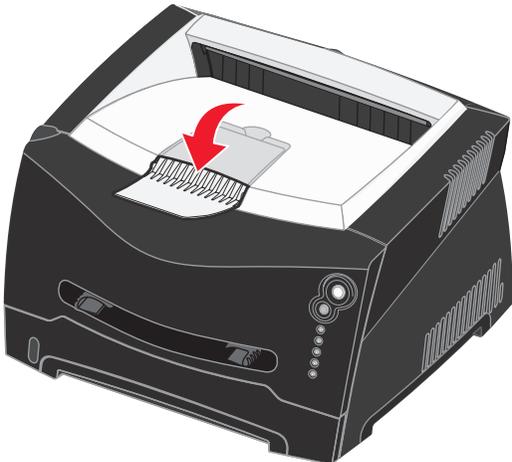
10

Troubleshooting

General problems

Problem / Question	Solution / Answer
What do the blinking lights mean?	See Understanding the operator panel lights on page 45 for information about what each light pattern means.
Why am I missing characters when I print on envelopes?	<p>If you see voids (missing characters) when printing envelopes, check your printer driver settings to make sure you selected Envelope from the Paper Type menu.</p> <p>If Envelope is already selected, try changing the texture setting to a rougher setting. Sometimes toner does not adhere well to smooth-textured envelopes. From your printer driver, select Custom 6-Rough Env from the Paper Type menu.</p> <p>To change Custom 6 back to its default settings for Paper Type, Paper Texture, and Paper Weight, use the Local Printer Setup Utility on the drivers CD that shipped with your printer. If you already installed the printer drivers and utilities, skip to step 7.</p> <ol style="list-style-type: none"> 1 Insert the drivers CD into your computer. 2 Click Printer Software. 3 Click Agree. 4 Select Local Printer Install, and then click Next. 5 Select your printer and port, and make sure Local Printer Setup Utility is checked. 6 Click Finish. <p>The Utility will be installed on your computer under Program Files (unless you chose a different directory).</p> <ol style="list-style-type: none"> 7 Open the Local Printer Setup Utility. 8 From the Paper menu, scroll through the menu items until you see the Custom menu setting. 9 Click Custom. 10 Scroll down to Custom 6 Paper Type. 11 Select envelope for the Custom 6 paper type, heavy for the Custom 6 paper weight, and rough for the Custom 6 paper texture. 12 From the toolbar, click Actions. 13 Click Apply to save the changes you made. 14 Click File → Exit to close the Local Printer Setup Utility.
How do I clear a paper jam?	See How to clear paper jams on page 28 for information about clearing jams.

General problems

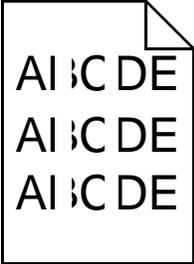
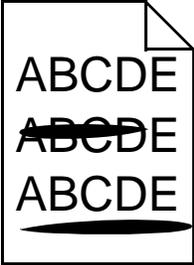
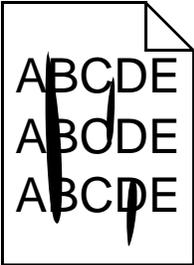
Problem / Question	Solution / Answer
How do I restore the factory defaults?	<p>Sometimes restoring the printer to the original factory default settings solves formatting problems. To reset the factory defaults:</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Open the front cover. 3 Press Continue as you turn the printer back on. 4 Keep pressing Continue until the Error light comes on, then release the Continue button. 5 Close the front cover. 6 As the printer warms up, the top four lights come on. 7 Press Cancel. 8 Press Continue until the operator panel cycles through all of the lights. 9 When the top four lights come on, release the Continue button. 10 Turn the printer off and back on. 11 Factory defaults have been reset.
The toner low light sequence is on, but I don't have another cartridge to put in yet. Can I still print with the low cartridge?	Yes, you can still print. To extend the life of the toner cartridge somewhat, remove the cartridge, firmly shake it from side to side and front to back several times to use the remaining toner, then insert it back into the printer. Repeat this procedure multiple times. If print remains faded, replace the toner cartridge.
The printer seems to print slower when using the manual feeder.	This is normal. The printer sometimes prints at a slightly slower speed when feeding print media from the manual feeder.
I want to manually duplex card stock, but I'm having trouble getting it to feed.	<p>The problem is that when the printer tries to manually duplex a print job, it always prints side 2 from Tray 1. However, Tray 1 does not support card stock.</p> <p>To achieve the desired effect, you have to send both pages of the print job as separate jobs. After the first page has printed, reload the card stock in the manual feeder. Load the card stock in the feeder with the already-printed side down, with the top of the sheet first.</p>
Paper stacks poorly in the output bin.	<p>Extend the paper support on the output bin.</p> <div style="text-align: center;">  </div>

Print quality problems

Problem / Question	Solution / Answer
Dust is gathering on the paper tray when it is extended.	Attach the dust cover to the back of the printer. This protects the paper tray from the environment as well as keeping the tray from being knocked out of position while it is extended.
The paper tray is getting bumped and pushed out the front of the printer when it is extended.	See Attaching the dust cover for information about attaching the dust cover.

Print quality problems

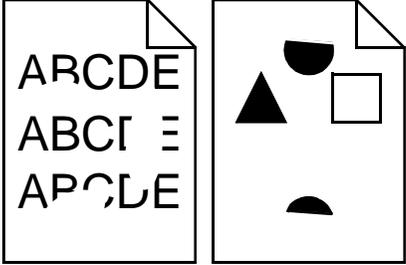
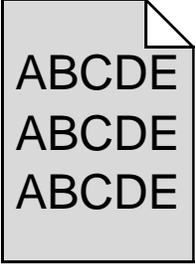
You can solve many print quality problems by replacing a supply or maintenance item that has reached the end of its intended life. Use the following table to find solutions to print quality problems.

Symptom	Cause	Solution
White lines 	<ul style="list-style-type: none"> • The printhead lens is dirty. • Either the toner cartridge or the fuser is defective. 	Try the following in this order: <ol style="list-style-type: none"> 1 Clean the printhead lens. (See How to clean the printhead lens on page 91.) 2 Replace the toner cartridge. 3 Replace the fuser[†].
Streaked horizontal lines 	The toner cartridge or fuser may be defective, empty, or worn.	Replace the toner cartridge or fuser [†] as needed.
Streaked vertical lines 	<ul style="list-style-type: none"> • Toner is smeared before fusing to the paper. • The toner cartridge is defective. 	<ul style="list-style-type: none"> • If paper is stiff, try feeding from another tray or the manual feeder. • Replace the toner cartridge.

^{*}To replace the fuser, call a service technician.

[†]This setting can be changed using the Local Printer Setup Utility. See **Using the Local Printer Setup Utility on page 74** for more information.

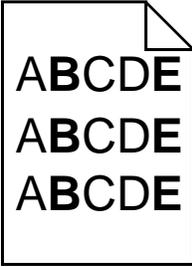
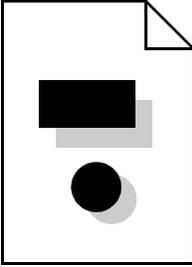
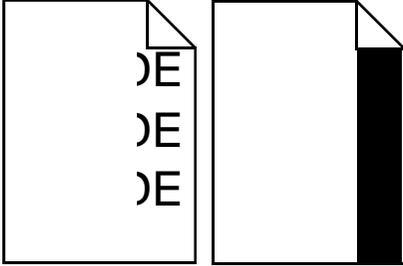
Print quality problems

Symptom	Cause	Solution
Print irregularities 	<ul style="list-style-type: none"> • Paper has absorbed moisture due to high humidity. • You are using paper that does not meet the printer specifications. • The fuser is worn or defective. 	<ul style="list-style-type: none"> • Load paper from a fresh package in the paper tray. • Avoid textured paper with rough finishes. • Make sure the printer driver paper type setting matches the type of paper you are using. • Replace the fuser.
Print too light	<ul style="list-style-type: none"> • The Toner Darkness setting is too light. • You are using paper that does not meet the printer specifications. • The toner cartridge is low on toner. • The toner cartridge is defective. 	<ul style="list-style-type: none"> • Select a different Toner Darkness[†] setting from the printer driver before sending the job to print. • Load paper from a new package. • Avoid textured paper with rough finishes. • Make sure the paper you load in the trays is not damp. • Replace the toner cartridge.
Print too dark	<ul style="list-style-type: none"> • The Toner Darkness setting is too dark. • The toner cartridge is defective. 	<ul style="list-style-type: none"> • Select a different Toner Darkness[†] setting from the printer driver before sending the job to print. • Replace the toner cartridge.
Transparency print quality is poor (Print has inappropriate light or dark spots, toner is smeared, or horizontal or vertical light bands appear.)	<ul style="list-style-type: none"> • You are using transparencies that do not meet the printer specifications. • The Form Type setting in the printer driver is set to something other than transparency. 	<ul style="list-style-type: none"> • Use only transparencies recommended by the printer's manufacturer. • Make sure the Form Type setting is set to transparency.
Toner specks	<ul style="list-style-type: none"> • The toner cartridge is defective. • The fuser is worn or defective. • Toner is in the paper path. 	<ul style="list-style-type: none"> • Replace the toner cartridge. • Replace the fuser. • Call for service.
Toner rubs off the paper easily when you handle the sheets	<ul style="list-style-type: none"> • The Paper Texture setting is wrong for the type of paper or specialty media you are using. • The Paper Weight setting is wrong for the type of paper or specialty media you are using. • The fuser is worn or defective. 	<ul style="list-style-type: none"> • Change Paper Texture[†] from Normal to Smooth or Rough. • Change Paper Weight[†] from Plain to CardStock (or other appropriate weight). • Replace the fuser.
Gray background 	<ul style="list-style-type: none"> • The Toner Darkness setting is too dark. • The toner cartridge is defective. 	<ul style="list-style-type: none"> • Select a different Toner Darkness[†] setting from the printer driver before sending the job to print. • Replace the toner cartridge.

*To replace the fuser, call a service technician.

[†]This setting can be changed using the Local Printer Setup Utility. See **Using the Local Printer Setup Utility on page 74** for more information.

Print quality problems

Symptom	Cause	Solution
Uneven print density 	The toner cartridge is defective.	Replace the toner cartridge.
Ghost Images 	<ul style="list-style-type: none"> The Form Type setting in the printer driver is set incorrectly. Toner level is low in the toner cartridge. 	<ul style="list-style-type: none"> Make sure the Form Type setting is correct for the paper or specialty media you are using. Replace the toner cartridge.
Uneven printing  (Print only appears on one side of the page.)	The toner cartridge is not properly installed.	Remove and then reinsert the toner cartridge.
Incorrect margins	The Form Size setting in the printer driver is different than the size paper that is loaded in the tray. For example, you inserted A4 size paper into the selected tray but did not set the Form Size to A4.	Set the Form Size to A4.
Skewed print (Print is inappropriately slanted.)	<ul style="list-style-type: none"> The guides in the selected tray are not in the correct position for the paper size loaded in the tray. The manual feeders guides are not in the correct position for the paper size loaded in the feeder. 	<ul style="list-style-type: none"> Move the guides in the tray so that they are snug against the sides of the paper. Move the manual feeders guides so that they are snug against the sides of the paper.
Blank pages	The toner cartridge is defective or empty.	Replace the toner cartridge.

*To replace the fuser, call a service technician.

†This setting can be changed using the Local Printer Setup Utility. See **Using the Local Printer Setup Utility on page 74** for more information.

Print quality problems

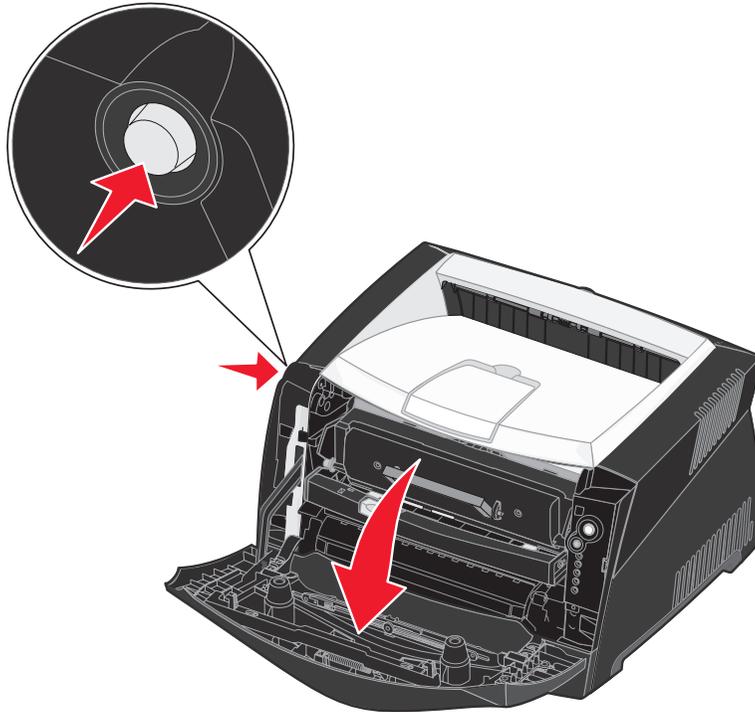
Symptom	Cause	Solution
Solid black pages	<ul style="list-style-type: none">• The toner cartridge is defective.• Your printer requires servicing.	<ul style="list-style-type: none">• Replace the toner cartridge.• Call for service.
Paper curls badly once it prints and exits to the bin	The Paper Weight setting is wrong for the type of paper or specialty media you are using.	Change Paper Weight [†] to Smooth.

*To replace the fuser, call a service technician.
[†]This setting can be changed using the Local Printer Setup Utility. See **Using the Local Printer Setup Utility on page 74** for more information.

How to clean the printhead lens

You can solve some print quality problems by cleaning the printhead lens.

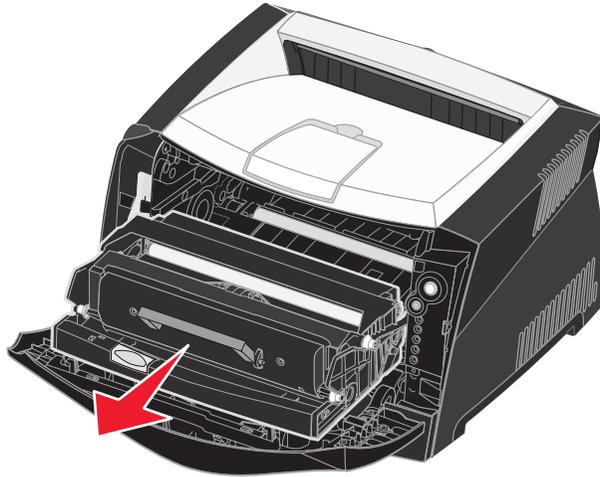
- 1 Turn the printer off.
- 2 Open the front cover by pressing the button on the left side of the printer and lowering the cover.



Print quality problems

- 3 Remove the print cartridge assembly out of the printer by pulling on the toner cartridge handle.

Note: Do not press the button on the print cartridge assembly.

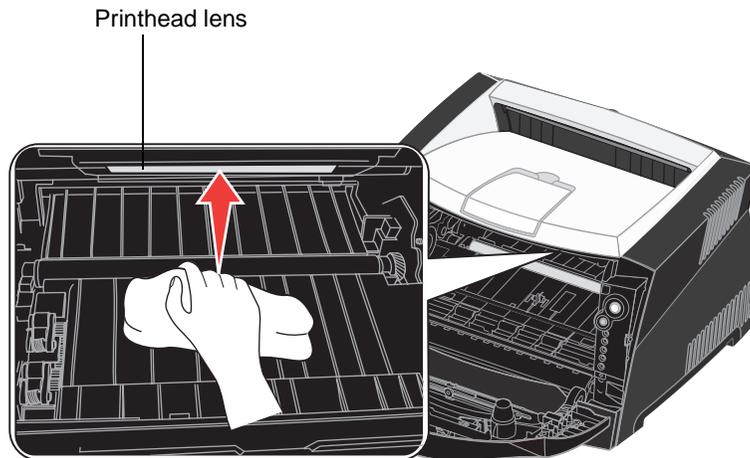


Place the print cartridge assembly on a flat, clean surface.

Warning: Do not leave the print cartridge assembly exposed to direct light for an extended period of time. Extended light exposure can cause print quality problems.

Print quality problems

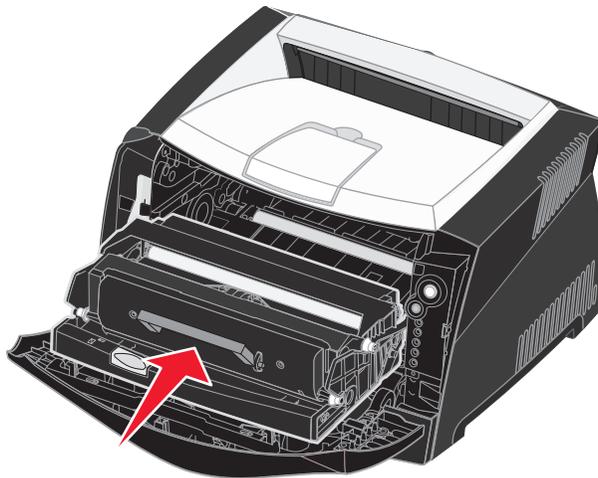
- 4 Locate the glass printhead lens, which is located within the recessed area in the top of the printer.



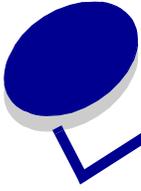
- 5 Gently wipe the printhead lens with a clean, dry, lint-free cloth.

Warning: Not using a clean, dry, lint-free cloth may result in damage to the printhead lens.

- 6 Install the print cartridge assembly into the printer by aligning the arrows on the guides of the print cartridge assembly with the arrows on the tracks in the printer and pushing the print cartridge assembly in as far as it will go.



- 7 Close the front cover.
- 8 Turn the printer on.



Index

A

Auto CR after LF (Setup menu) 71
Auto LF after CR (Setup menu) 71

B

booklets 36
Busy light 50
buttons 44

C

canceling a print job 40
card stock 20
cleaning the printhead lens 91
clearing paper jams 28
configuration menus
 Parallel
 MAC Binary PS 71
 Mode 2 71
 NPA Mode 71
 Protocol 71
printing the Printer Settings Configuration
 sheet 69
Setup
 Auto CR after LF 71
 Auto LF after CR 71
USB
 MAC Binary PS 72
 NPA Mode 72
Utilities
 Hex Trace 72
 Print Quality Test Pages 72
 Reset Factory Defaults 72
 Reset Photoconductor Counter 72

D

duplex 33, 54
dust cover 25

E

electronic emission statement 3

emission statement 3
envelopes 18
Error light 51, 52, 56, 57, 58, 59, 60, 62, 63, 64,
68
 secondary error codes 61
 See also operator panel, secondary error
 codes
extending trays 24

F

FCC statement 3
folio 24

H

Hex Trace (Utilities menu) 72

I

interfaces
 parallel 71
 USB 72

J

jams 28

L

labels 19
legal 24
letterhead 18, 38
lights 44, 45
Linux 14
Load Paper light
 manual feeder 53
 Tray 1 or 550-sheet tray 53
loading
 250-sheet tray (Tray 1) 22
 550-sheet tray 22
 letterhead 38
 manual feeder 26
Local Printer Setup Utility 74

M

- MAC Binary PS
 - Parallel menu 71
 - USB menu 72
- Macintosh 13
 - USB printing 13
- maintaining the printer
 - cleaning the printhead lens 91
- manual duplex
 - light sequence 54
 - printing 33
- manual feeder 26, 53
- memory card 43
- menu settings page 73
- menus
 - navigating
 - advancing in 70
 - entering 69
 - exiting 70
 - returning to Home menu 70
 - scrolling through 70
 - Parallel 71
 - saving settings 70
 - Setup 71
 - USB 72
 - Utilities 72
- messages
 - See operator panel light sequences
- Mode 2 (Parallel menu) 71
- multiple page printing 35

N

- NPA Mode
 - Parallel menu 71
 - USB menu 72
- N-up printing 35

O

- operator panel
 - buttons 44
 - light sequences
 - Busy 50
 - Canceling job 58
 - Change invalid toner

- cartridge 57
- Close door 52
- Defragment flash 50
- Error 52, 56, 58, 59, 60, 61, 62, 63, 64, 68
- Flushing data 51
- Formatting flash 50
- Hex Trace Ready 50
- Load manual feeder 53
- Load media 53
- Manual duplex 54
- Not ready 52
- Offline 52
- Photoconductor kit near full 55
- Print side two 54
- Printer error 59
- Programming engine code 58
- Programming system code 58
- Ready/Power Saver 49
- Replace photoconductor kit 55, 56
- Resetting printer 58
- Restoring factory defaults 58
- secondary error codes 61
- Service error 59
- Toner low 54
- Unsupported toner cartridge 56
- Waiting 51
- lights 44, 45
- options
 - memory card 43
- overlays 38

P

- paper 18
 - choosing 18
 - jams 28
 - loading 22, 26
 - storing 20
- Parallel menu 71
- photoconductor kit
 - changing 82
 - level 76

- light sequences 77
 - ordering 75
 - recycling 81
- Photoconductor kit near full light 55
- ports
 - parallel 71
 - USB 72
- posters 37
- print cartridge
 - See toner cartridge
- print quality problems 87
- Print Quality Test Pages (Utilities menu) 72
- Printer Settings Configuration sheet
 - printing 69
- printhead lens, cleaning 91
- printing
 - booklets 36
 - duplex 33
 - letterhead 38
 - multi-page (N-up) 35
 - overlays 38
 - posters 37
 - watermarks 38
- problems
 - print quality 87
- Protocol (Parallel menu) 71

R

- rear exit 26
- recycling supplies 81
- Replace photoconductor kit light 55, 56
- Reset Factory Defaults (Utilities menu) 72
- Reset Photoconductor Counter (Utilities menu) 72

S

- safety information 3
- secondary error codes 61
 - Complex page 64
 - Font error 66
 - Host interface disabled 66
 - Insufficient collation area 65
 - Insufficient printer

- memory 65
- Invalid engine code 68
- Memory full 67
- Paper jam at the input sensor 62
- Paper jam in the manual feeder 62
- Paper jam in Tray 1 64
- Paper jams as a printed job exits the tray 63
- Paper jams as it exits the tray into the printer 63
- PPDS font error 66
- Short paper 67
- service error lights 59
- Setup menu 71
- storing
 - paper 20
 - supplies 20, 75
- supplies
 - conserving 75
 - ordering 75
 - recycling 81
 - storing 20, 75
- system board
 - accessing 41

T

- test page 73
- toner cartridge
 - changing 78
 - error 56
 - light sequences 77
 - ordering 75
 - recycling 81
 - toner level 76
- Toner Low light 54
- transparencies 18
- tray extending 24
- troubleshooting 85
 - print quality 87

U

- UNIX 14
- USB menu 72
- Utilities menu 72

W

- Waiting light 51
- watermarks 38
- Windows 12