

User Guide

Benutzerhandbuch

Guide D'utilisation

Gebruikershandleiding

Guida dell'utente

Guia do Usuário

Guía del usuario

Руководство пользователя

Przewodnik użytkownika

Felhasználói útmutató

Uživatelská příručka

Εγχειρίδιο Χρήσης

Kullanım Kılavuzu



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Important Precautions and Safety Information

When using this machine, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to people:

- 1** Read and understand all instructions.
- 2** Use common sense whenever operating electrical appliances.
- 3** Follow all warnings and instructions marked on the machine and in the literature accompanying the machine.
- 4** If an operating instruction appears to conflict with safety information, heed the safety information. You may have misunderstood the operating instruction. If you cannot resolve the conflict, contact your sales or service representative for assistance.
- 5** Unplug the machine from the AC wall socket before cleaning. Do not use liquid or aerosol cleaners. Use only a damp cloth for cleaning.
- 6** Do not place the machine on an unstable cart, stand or table. It may fall, causing serious damage.
- 7** Your machine should never be placed on, near or over a radiator, heater, air conditioner or ventilation duct.
- 8** Do not allow anything to rest on the power cable. Do not locate your machine where the cords will be abused by persons walking on them.
- 9** Do not overload wall outlets and extension cords. This can diminish performance, and may result in the risk of fire or electric shock.
- 10** Do not allow pets to chew on the AC power or PC interface cords.
- 11** Never push objects of any kind into the machine through case or cabinet openings. They may touch dangerous voltage points, creating a risk of fire or shock. Never spill liquid of any kind onto or into the machine.
- 12** To reduce the risk of electric shock, do not disassemble the machine. Take it to a qualified service technician when repair work is required. Opening or removing covers may expose you to dangerous voltages or other risks. Incorrect reassembly could cause electric shock when the unit is subsequently used.

- 13** Unplug the machine from the PC and AC wall outlet, and refer servicing to qualified service personnel under the following conditions:
- When any part of the power cord, plug, or connecting cable is damaged or frayed.
 - If liquid has been spilled into the machine.
 - If the machine has been exposed to rain or water.
 - If the machine does not operate properly after instructions have been followed.
 - If the machine has been dropped, or the cabinet appears damaged.
 - If the machine exhibits a sudden and distinct change in performance.
- 14** Adjust only those controls covered by the operating instructions. Improper adjustment of other controls may result in damage, and may require extensive work by a qualified service technician to restore the machine to normal operation.
- 15** Avoid using this machine during a lightning storm. There may be a remote risk of electric shock from lightning. If possible, unplug the AC power for the duration of the lightning storm.
- 16** If you continuously print multiple pages, the surface of the output tray may become hot. Be careful not to touch the surface, and keep children away from the surface.
- 17** SAVE THESE INSTRUCTIONS.

Environmental and Safety Consideration

Laser Safety Statement

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

Class I laser products are not considered to be hazardous. The 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.

WARNING

Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes. When using this product, these basic safety precautions should always be followed to reduce risk of fire, electric shock, and injury to persons:



- CAUTION - INVISIBLE LASER RADIATION
WHEN THIS COVER OPEN.
DO NOT OPEN THIS COVER.
- VORSICHT - UNSICHTBARE LASERSTRAHLUNG,
WENN ABDECKUNG GEÖFFNET.
NICHT DEM STRAHL AUSSETZEN.
- ATTENTION - RAYONNEMENT LASER INVISIBLE EN CAS
D'OUVERTURE. EXPOSITION DANGEREUSE
AU FAISCEAU.
- ATTENZIONE - RADIAZIONE LASER INVISIBILE IN CASO DI
APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
- PRECAUCIÓN - RADIACIÓN LASER INVISIBLE CUANDO SE ABRE.
EVITAR EXPONERSE AL RAYO.
- PERIGO - RADIAÇÃO LASER INVISÍVEL AO ABRIR. EVITE
EXPOSIÇÃO DIRECTA AO FEIXE.
- GEVAAR - ONZICHTBARE LASERSTRALEN BIJ GEOPENDE
KLEP. DEZE KLEP NIET OPENEN.
- ADVARSEL - USYNLIG LASERSTRÅLNING VED ÅBNING, NÅR
SIKKERHEDSBRYDERE ER UDE AF FUNKTION.
UNDGÅ UDSAETTELSE FOR STRÅLNING.
- ADVARSEL - USYNLIG LASERSTRÅLNING NÅR DEKSEL
ÅPNES. STIRR IKKE INN I STRÅLEN. UNNGÅ
EKSPONERING FOR STRÅLEN.
- VARNING - OSYNLIG LASERSTRÅLNING NÅR DENNA DEL
ÄR ÖPPEN OCH SPÄRREN ÄR URKOPPLAD.
BETRAKTA EJ STRÅLEN. STRÅLEN ÄR FARLIG.
- VARO! - AVATTAESSA JA SUOJALUKITUS OHITETTAESSA
OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASER-
SÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.
- 注意 - 严禁揭开此盖, 以免激光泄露灼伤
- 주의 - 이 덮개를 열면 레이저광에 노출될 수 있으므로
주의하십시오.

Ozone Safety



During normal operation, this machine produces ozone. The ozone produced does not present a hazard to the operator. However, it is advisable that the machine be operated in a well ventilated area.

If you need additional information about ozone, please contact your nearest Xerox dealer.

Recycling



Please recycle or dispose of the packaging material for this product in an environmentally responsible manner.

Radio Frequency Emissions

FCC regulations

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These 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:

1. Reposition the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

MEMO

1

INTRODUCTION

Congratulations on the purchase of your printer!

This chapter includes:

- **Special Features**
- **Printer Components**
- **Understanding the Control Panel**

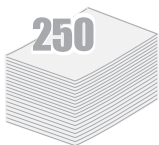
Special Features

Your new printer is equipped with special features that improve the print quality. You can:



Print with excellent quality and high speed

- You can print using **1200 dpi** Image Quality mode. See page 4.16.
- Your printer prints up to **22 pages-per-minute (Letter size)**, up to **20 pages-per-minute (A4 size)**.



Handle paper flexibly

- A 50-sheet **Tray 1** supports letterhead, envelopes, labels, transparencies, custom-sized materials, postcards, and heavy paper.
- **Standard 250-sheet input tray** supports all standard sizes of paper.
- Two output trays; select either **the top output (face-down)** or **the rear output tray (face-up)** for the most convenient access.
- **Straight-through paper path** capability from the Tray 1 to the rear output tray.



Create professional documents

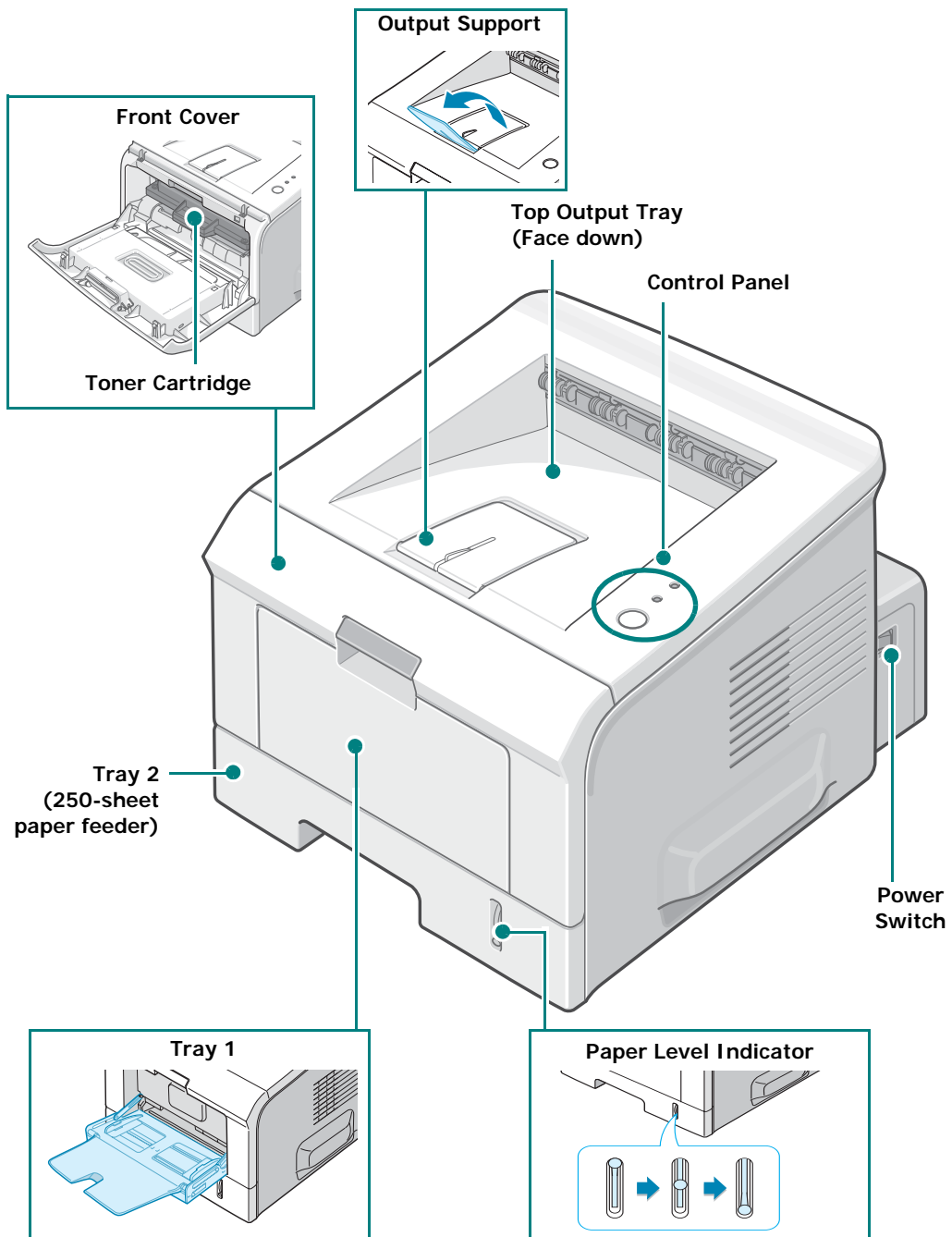
- You can customize your documents using **Watermarks**, such as "Confidential". See page 4.13.
- Print **Posters**. The text and pictures of each page of your document are magnified and printed across the selected sheet of paper. After the document has printed, trim off the white edges of each sheet. Tape the sheets together to form a poster. See page 4.12.

Print in various environments

- You can print in **Windows 98/Me/NT 4.0/2000/XP**.
- Your printer is compatible with **Linux**.
- Your printer supports both **Parallel** and **USB** interfaces.

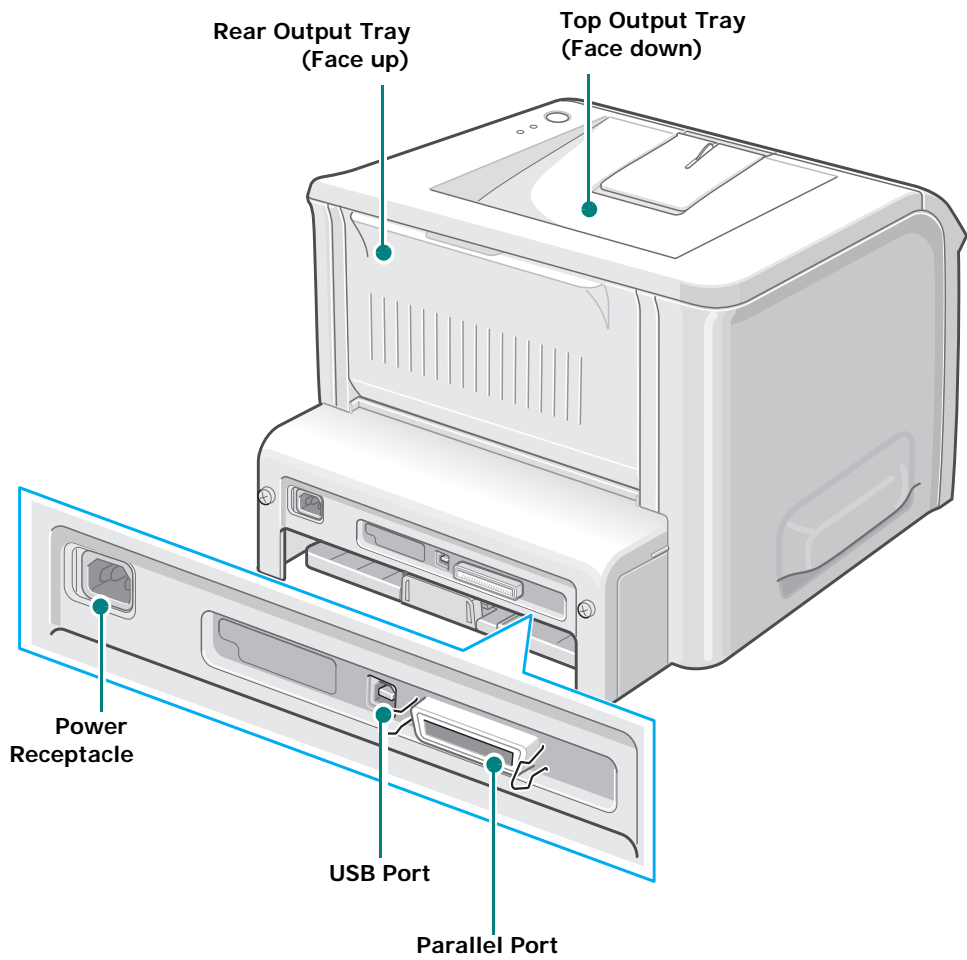
Printer Components

Front View

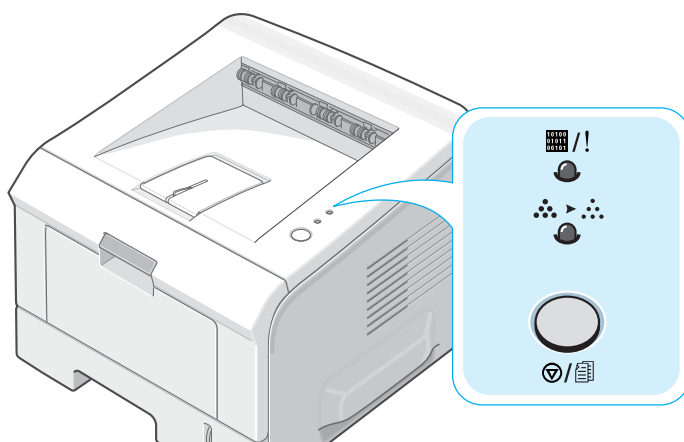


Rear View









1




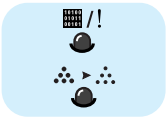




Understanding the Control Panel




On Line/Error(/!) and Toner Save() LEDs

LED	Description
	If the  /! light is green, the printer is ready to print.
	If the  /! light is red, the printer is experiencing an error, such as jammed paper, no paper, open cover, or uninstalled toner cartridge. See “Troubleshooting Error Messages” on page 6.18.
	If you press the  button while the printer is receiving data, the  /! LED blinks red to cancel printing.
	In Manual Feed mode, if there is no paper in the tray 1, the  /! LED blinks red. Load paper into the tray 1 and the LED stops blinking.
	If the printer is receiving data, the  /! LED slowly blinks green. If the printer is printing the received data, the  /! LED blinks green fast.

LED	Description
	<p>If the installed toner cartridge is empty, the /! LED blinks orange. You must replace it with a new toner cartridge. To replace the toner cartridge, see “Installing the Toner Cartridge” on page 2.4.</p>
	<p>If you have installed a toner cartridge that is not designed for the printer, the /! LED blinks orange and red in turn. Install a correct toner cartridge.</p>
	<p>If the /! and  LEDs blink, your system has a problem. To solve the problem, see “Troubleshooting Error Messages” on page 6.18.</p>

Cancel() button

Function	Description
Printing demo page	In Ready mode, press and hold this button for about 2 seconds until all LEDs blink slowly, and release.
Printing configuration sheets	In Ready mode, press and hold this button for about 6 seconds until all LEDs blink fast, and release.
Printing manually	Press this button each time you load paper in the tray 1, when you have selected Tray1 (Manual) for Source from your software application. For detailed information, see “Using the Manual Feed Mode” on page 3.12.
Cleaning inside printer	In Ready mode, press and hold this button for about 10 seconds until all LEDs turn on, and release. After cleaning the printer, one “cleaning sheet” (see page 5.7) is printed.
Canceling print job	Press this button during printing. The  /! LED blinks while the print job is cleared from both the printer and the computer, and then the printer returns to Ready mode. This may take some time depending on the size of the print job.

MEMO



2

SETTING UP YOUR PRINTER

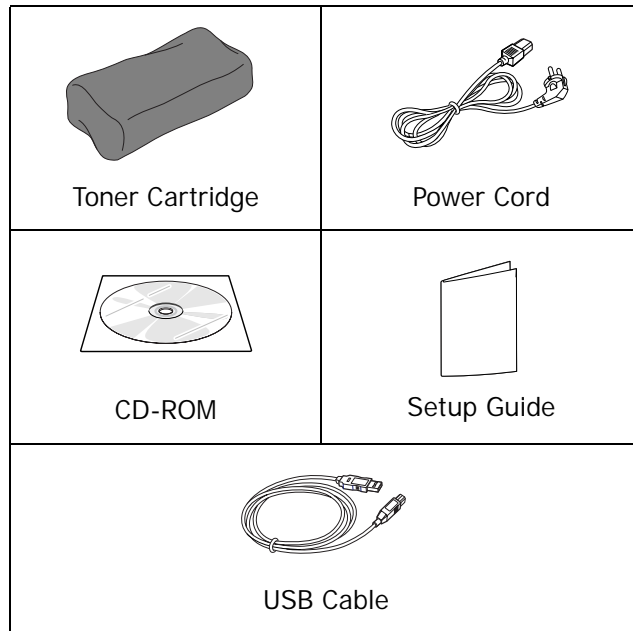
This chapter provides step by step information on setting up your printer.

This chapter includes:

- **Unpacking**
- **Installing the Toner Cartridge**
- **Loading Paper**
- **Connecting a Printer Cable**
- **Turning the Printer On**
- **Printing a Demo Page**
- **Installing Printer Software**
- **Uninstalling Printer Software**
- **View User Documentation**

Unpacking

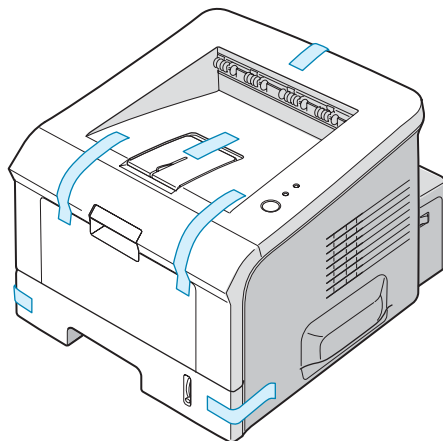
- 1 Remove the Printer and all accessories from the packing carton. Make sure that the printer has been packed with the following items:



NOTES:

- If any items are missing or damaged, notify your dealer immediately.
- **Components may differ from one country to another.**
- The CD-ROM contains the Printer Driver, and the User's Guide.

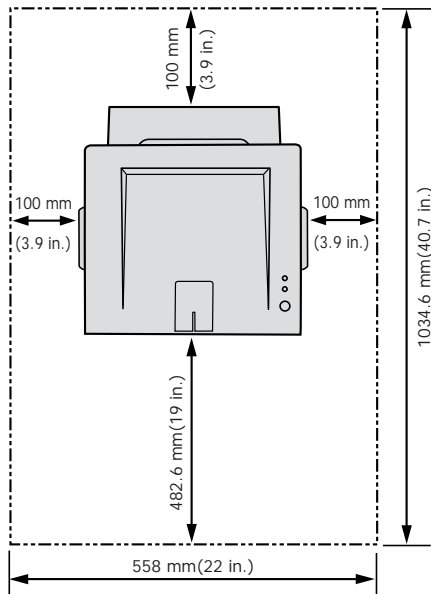
- 2 Carefully remove all of the packing tape from the printer.



Selecting a Location

Select a level, stable place with adequate space for air circulation. Allow extra space for opening covers and tray(s). The area should be well-ventilated and away from direct sunlight or sources of heat, cold, and humidity. See the image below for clearance space. Do not place the printer close to the edge of your desk or table.

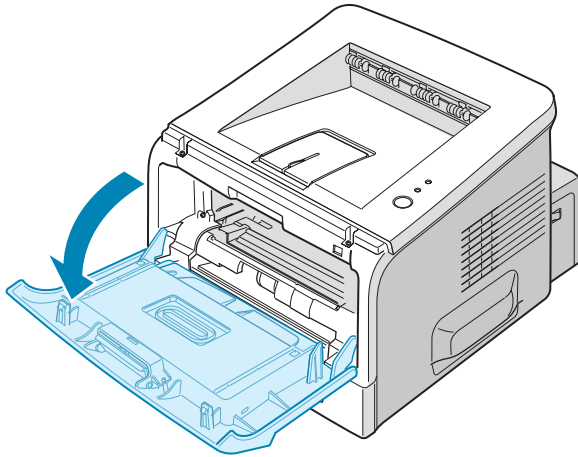
Clearance Space



- Front:** 482.6 mm (enough space so that tray(s) can be removed)
- Back:** 100 mm (enough space to allow opening of the rear out tray)
- Right:** 100 mm (enough space for ventilation)
- Left:** 100 mm

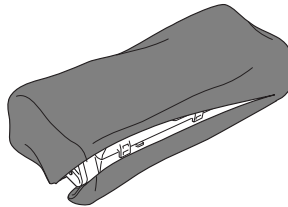
Installing the Toner Cartridge

- 1 Grasp the front cover and pull it toward you to open.



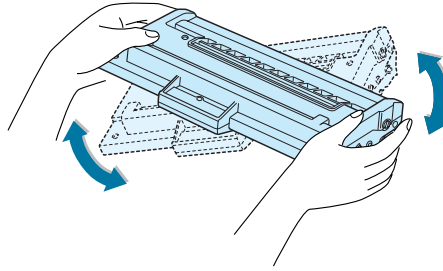
NOTE: Because the printer is very light, it may move when you use it; for example, when opening/closing the tray or installing/removing the toner cartridge. Be careful not to move the printer.

- 2 Remove the toner cartridge from its bag and remove the paper covering the cartridge.



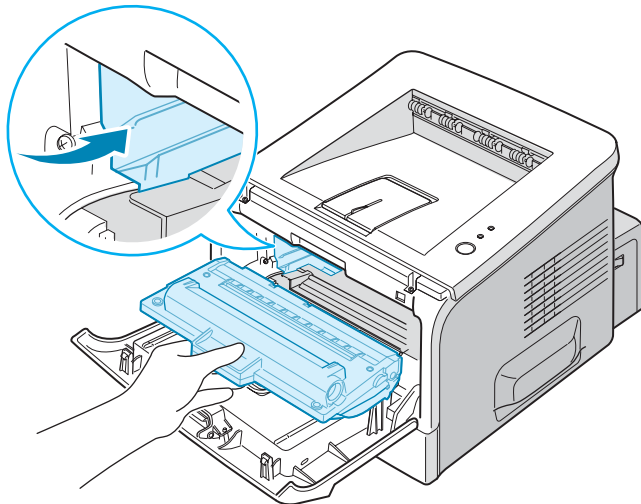
Don't use a knife or other sharp object as it might scratch the drum of the cartridge.

- 3 Gently shake the cartridge from side to side to distribute the toner evenly inside the cartridge.

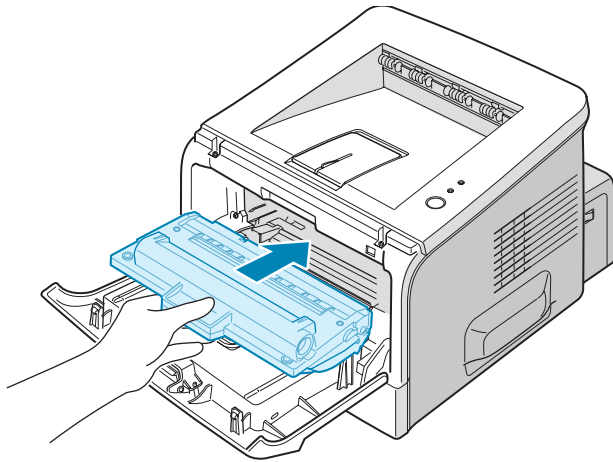
**CAUTIONS:**

- To prevent damage, do not expose the toner cartridge to light for more than a few minutes. Cover it with a piece of paper if left exposed for more than a few minutes and keep it in a flat and clean place.
- If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.

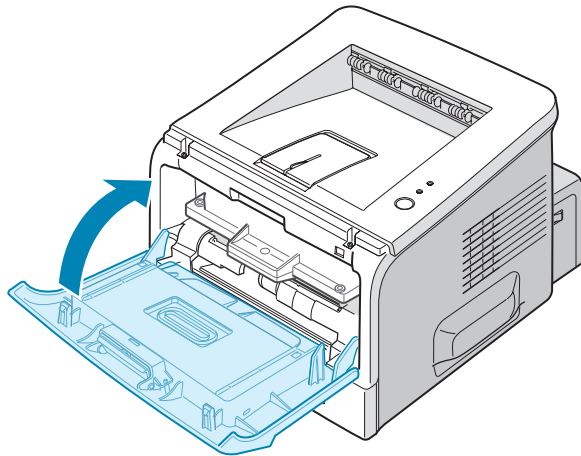
- 4 Locate the cartridge slots inside the printer, one on each side.



- 5 Grasp the handle and insert the cartridge into the printer until it snaps into place.



- 6 Close the front cover. Make sure that the cover is securely closed.

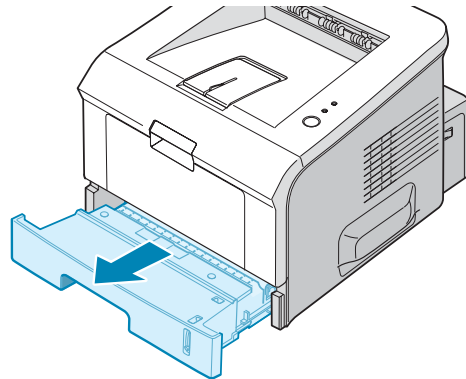


NOTE: When printing text at 5% coverage, you can expect a standard-capacity toner cartridge to last approximately 3,500 pages, and a high-capacity toner cartridge to last approximately 5,000 pages.

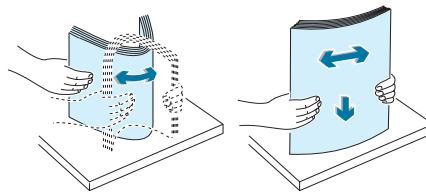
Loading Paper

You can load approximately 250 sheets of paper in the Tray 2.

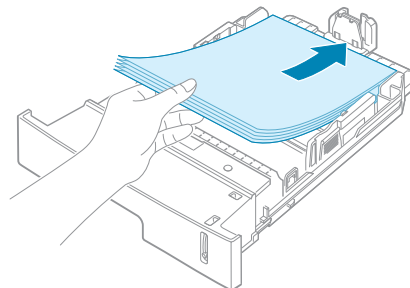
- 1 Pull the tray out of the printer.



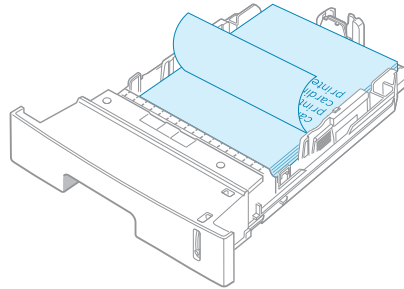
- 2 Prepare a stack of paper for loading by flexing or fanning the paper back and forth. Straighten the edges on a level surface.



- 3 Load paper **with the print side facing down**.



You can load previously printed paper. The printed side should be facing up with an uncurled edge on top. If you experience problems with paper feed, turn the paper around.

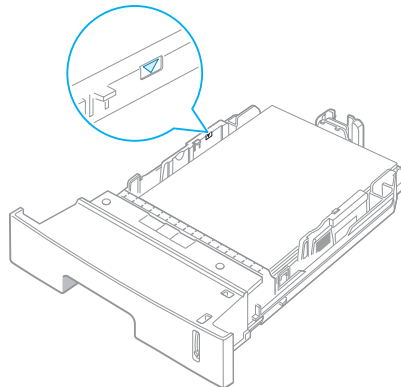


Make sure that all four corners are flat in the tray.

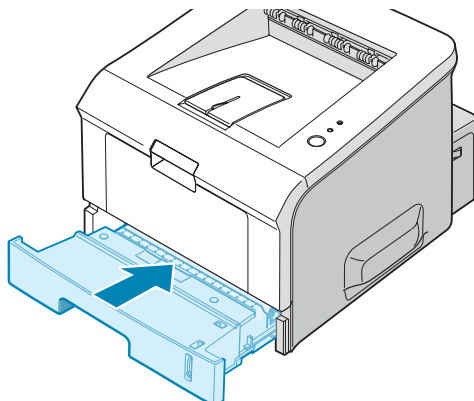


NOTE: If you want to change the paper size in the tray, see "Changing the Paper Size in the Paper Tray" on page 2.9.

- 4 Pay attention to the paper limit mark on the left inside wall of the tray. Paper overloading may cause paper jams.



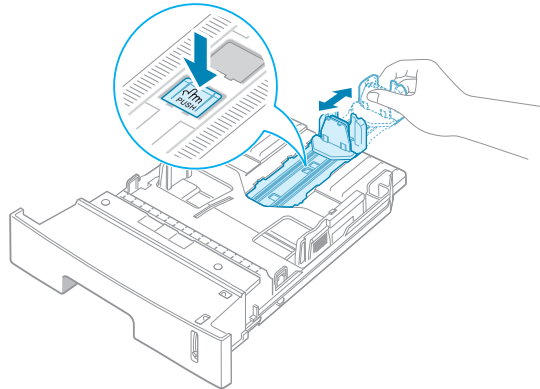
- 5 Slide the tray back into the printer.



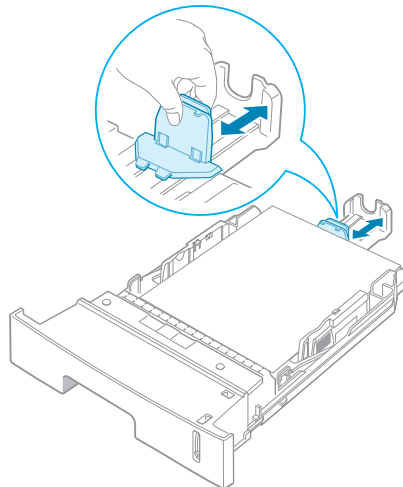
Changing the Paper Size in the Paper Tray

To load longer sizes of paper, you need to adjust the paper guides to extend the paper tray.

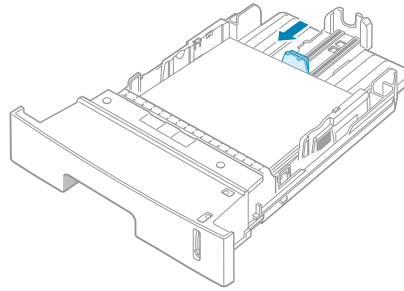
- 1 Pressing and unlatching the guide lock, slide the paper length guide out completely to extend the paper tray to its full length.



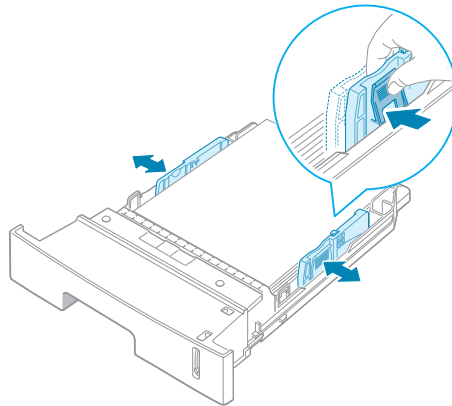
- 2 After inserting paper into the tray, slide in the guide until it lightly touches the end of the paper stack.



For the paper smaller than Letter, adjust the front paper length guide.

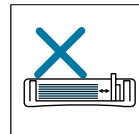
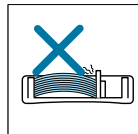
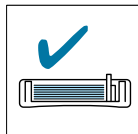


- 3** Pinching the paper width guide as shown, move it toward the stack of paper until it lightly touches the side of the stack.



NOTES:

- Do not push the paper width guide far enough to cause the materials to warp.
- If you do not adjust the paper width guide, it may cause paper jams.



Connecting a Printer Cable

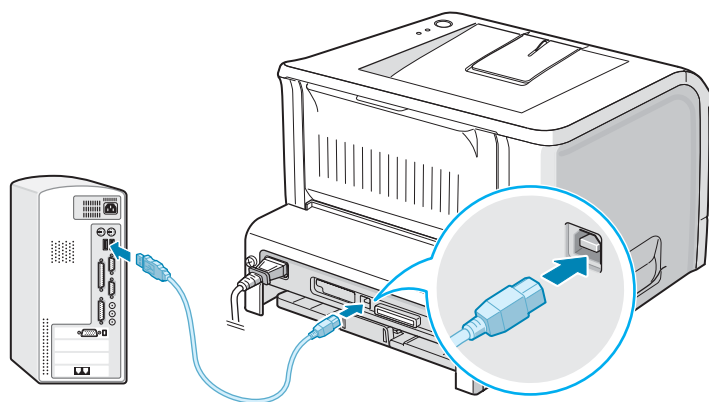
To print from your computer in a local environment, you need to connect your printer to the computer with either a supplied Universal Serial Bus (USB) cable or a parallel interface cable.

Using a USB Cable



NOTE: Connecting the printer to the USB port of the computer requires a certified USB cable.

- 1 Make sure that both the printer and the computer are turned off.
- 2 Plug the USB printer cable into the connector on the back of the printer.
- 3 Connect the other end of the cable to the USB port on your computer.



See your computer User's Guide if you need help.



NOTE: For using a USB cable, you must be running Windows 98/Me/2000/XP.

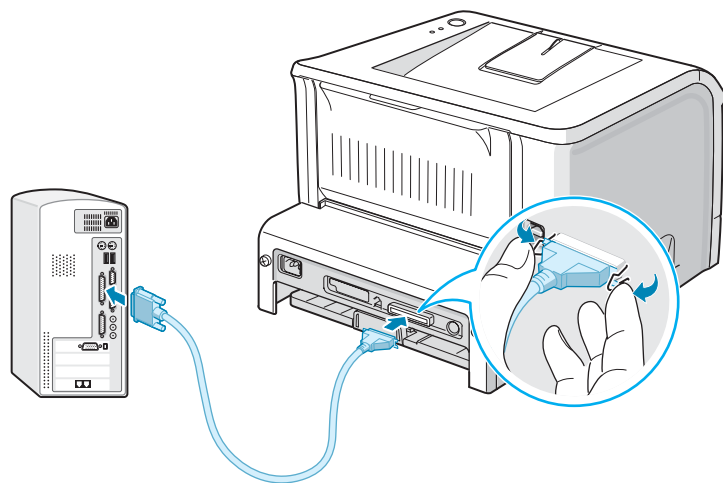
Using a Parallel Cable



NOTE: To connect the printer to the parallel port of the computer requires a certified parallel cable. You will need to buy an IEEE1284 compliant cable.

- 1 Make sure that both the printer and the computer are turned off.
- 2 Plug the parallel printer cable into the connector on the back of the printer.

Push the metal clips down to fit inside the notches on the cable plug.



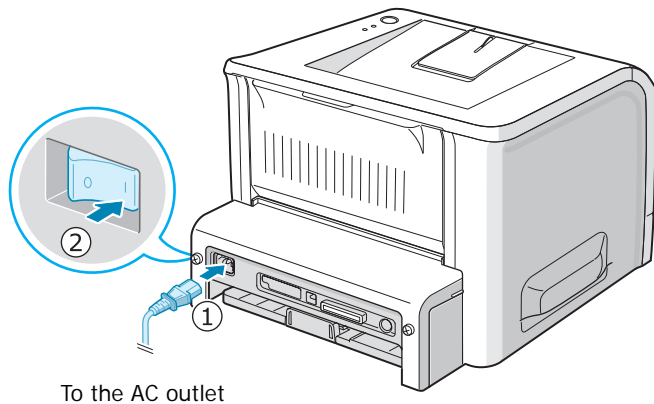
- 3 Connect the other end of the cable to the parallel interface port on your computer, and tighten the screws.

See your computer User's Guide if you need help.

Turning the Printer On

- 1 Plug the power cord into the power receptacle on the back of the printer.
- 2 Plug the other end into a properly grounded AC outlet and turn on the printer using the power switch.

2




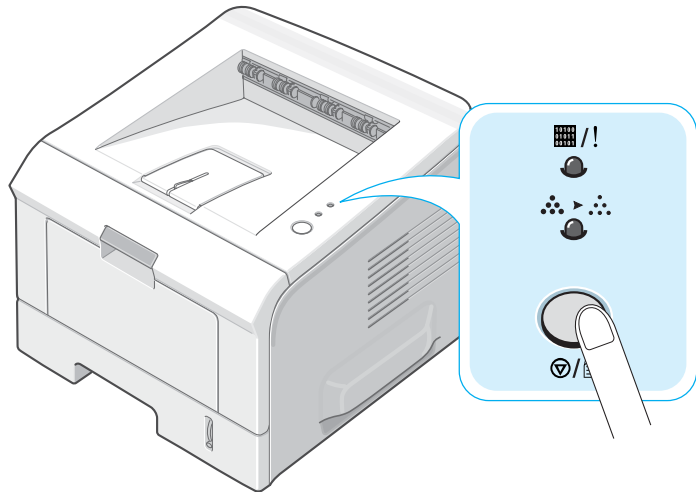
CAUTIONS:

- The fusing area inside the back of your printer is hot when the printer is turned on. Be careful not to be burned when accessing this area.
- Do not disassemble the printer when it is turned on. Doing so may give you an electric shock.

Printing a Demo Page

Print a demo page to make sure that the printer is operating correctly.

- 1 Hold down the  button for about 2 seconds to print a demo page.



- 2 A demo page showing the printer's features and capabilities prints out.

Installing Printer Software

The supplied CD-ROM contains Windows printing software, Linux printing software, DOS RCP, an on-line User's Guide.

If you are printing from Windows:

You can install the following printer software using the CD-ROM.

- **Printer Driver** for Windows. Use this driver to take full advantage of your printer's features. See page 2.16.
- **Status Monitor** appears when a printing error occurs. See page 4.20.
- **Remote Control Panel** for DOS applications. See page 8.2.

If you are printing in Linux:

For information about installing the Linux driver, see page 7.2. To view the User's Guide, see page 2.19.

Printer Driver Features

Your printer drivers will support the following standard features:

- Paper source selection
- Paper size, orientation and media type
- Number of copies

The table below lists a general overview of features supported by your printer drivers.

Driver Feature	Printer Driver		
	Win 2000/ XP	Win 98/Me	Win NT4.0
Print quality option	Y	Y	Y
Poster printing	Y	Y	Y
Multiple pages per sheet (2-up)	Y	Y	Y
Scale printing	Y	Y	Y
Fit to page printing	Y	Y	Y
Cover page	Y	Y	Y
Watermark	Y	Y	Y
Print order	Y	Y	Y

Installing Printer Software in Windows

System Requirements

Verify the following:

- At least **32 MB** (Windows 98/Me), **64 MB** (Windows 2000/NT), **128 MB** (Windows XP) or more of RAM is installed on your PC.
- There is at least **300 MB** of free disk space on your PC.
- All applications are closed on your PC before beginning installation.
- You are using Windows 98, Windows Me, Windows NT 4.0, Windows 2000, or Windows XP.
- You are using at least Internet Explorer 5.0.

Installing Printer Software

All applications should be closed on your PC before beginning installation.



NOTE: Cancel the "New Hardware Found" window when your computer boots up.

2

- 1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM driver does not automatically run:

Select **Run** from the **Start** menu, type **X:\setup.exe** in the Open box (Where **X** is the drive letter for the CD-ROM drive) and click **OK**.

- 2 Select the language of the software you want to install.
- 3 Click **Printer Driver**.



- **Printer Driver:** Installs the Xerox software on your PC.
- **Remote Control Panel:** Installs the Remote Control Panel for DOS on your PC.
- **Status Monitor:** Install the Status Monitor software.
- **View User Documentation:** Allows you to view the **Xerox Phaser 3150** Setup Guide and User Manual and access the web-site for downloading Adobe Acrobat Reader. After installing the software, you can view the User's Guide in PDF format at any time.
- **Browse CD Directory:** Allows you to view the CD directory.

- 4 Follow the instructions on the screen to complete the installation.



NOTE: If the printer does not print properly, disconnect the USB cable and reconnect it or turn the printer off and then back on.

Uninstalling Printer Software

Uninstall is required if you are upgrading the software or if your installation fails. You can uninstall the desired item using the CD-ROM or unInstallShield.

- 1 From the **Start** menu, select **Programs**.

- 2 Select **Xerox Phaser 3150**, and then select the components you want to uninstall.

If you want to uninstall the Remote Control Panel, select **Remote Control Panel Uninstall**.

If you want to uninstall the Status Monitor, select **Uninstall Status Monitor**.

If you want to uninstall the printer driver, select **Xerox Phaser 3150 PCL 6 Driver uninstall**.

- 3 When your computer asks you to confirm, click **Yes**.

The selected driver is removed from your computer.

- 4 When the uninstall is complete, click **Finish** or **OK**.

View User Documentation

- 1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM driver does not automatically run:

Select **Run** from the **Start** menu, type **X:\setup.exe** in the Open box (Where **X** is the drive letter for the CD-ROM drive) and click **OK**.

- 2 Select the language of the software you want to install.

- 3 Click **View User Documentation**.

- 4 Click the documentation you want to view.

- **Setup Guide:** Allows you to view the setup guide.
- **User Manual:** Allows you to view the user manual.
- **Install Adobe Reader:** Allows you to access the Adobe web site to downloading Adobe Acrobat Reader.



NOTE: The Setup Guide and The User Manual are in the PDF format. To read the PDF document you need to have Adobe Acrobat Reader. If your computer doesn't have Adobe Acrobat, click **Install Adobe Reader**.

MEMO



3

USING PRINT MATERIALS

This chapter will help you understand types of paper you can use with your printer and how to properly load paper in the different paper trays for the best print quality.

This chapter includes:

- **Choosing Paper and Other Materials**
- **Selecting the Output Location**
- **Loading Paper**
- **Printing on Envelopes**
- **Printing on Labels**
- **Printing on Transparencies**
- **Printing on Card Stock or Custom-sized Materials**
- **Printing on Preprinted Paper**

Choosing Paper and Other Materials

You can print on a variety of print materials, such as plain paper, envelopes, labels, and transparencies. See “Paper Specifications” on page 9.3. To get the best possible print quality, use only high-quality copier-grade paper.

When you choose print materials, consider the following:

- **Desired outcome:** The paper you choose should be appropriate for the project.
- **Size:** You can use any size paper that fits easily within the paper adjusters of the paper tray.
- **Weight :** Your printer supports paper weight as follows:
 - 16 - 24 lbs (60 - 90 g/m²) bond for the tray 2
 - 16 - 43 lbs (60 - 163 g/m²) bond for the tray 1
- **Brightness:** Some papers are whiter than others and produce sharper, more vibrant images.
- **Surface smoothness:** The smoothness of the paper affects how crisp the printing looks on the paper.



CAUTION: Using a material that does not conform to the specifications listed in the paper specification can cause problems that may require service. This service is not covered by the warranty or service agreements.

Sizes and Capacities

Size	Input Source/Capacity ^{*a}	
	Tray 2	Tray 1
Plain Paper Letter (216 x 279 mm) Legal (216 x 356 mm) Executive (184 x 267 mm) Oficio (216 x 343 mm) Folio (216 x 330 mm) A4 (210 x 297 mm) JIS B5 (182 x 257 mm) ISO B5 (176 x 250 mm) A5 (148 x 210 mm) A6 (105 x 148 mm)	250 250 250 250 250 250 250 250 250 250 -	50 50 50 50 50 50 50 50 50 50 50
Envelopes No.10 (105 x 241 mm) Monarch (98 x 191 mm) C5 (162 x 229 mm) DL (110 x 220 mm) C6 (114 x 162 mm)	- - - - -	5 5 5 5 5
Labels^{*b} Letter (216 x 279 mm) A4 (210 x 297 mm)	- -	5 5
Transparencies^{*b} Letter (216 x 279 mm) A4 (210 x 297 mm)	- -	5 5
Card stocks^{*b}	-	5
Bond^{*b}	-	5

^{*a} Depending on paper thickness, the maximum capacity may be reduced.

^{*b} If you are experiencing excessive jamming, feed one sheet at a time through the Tray 1.

Guidelines for Paper and Special Materials

When selecting or loading paper, envelopes, or other special materials, keep these guidelines in mind:

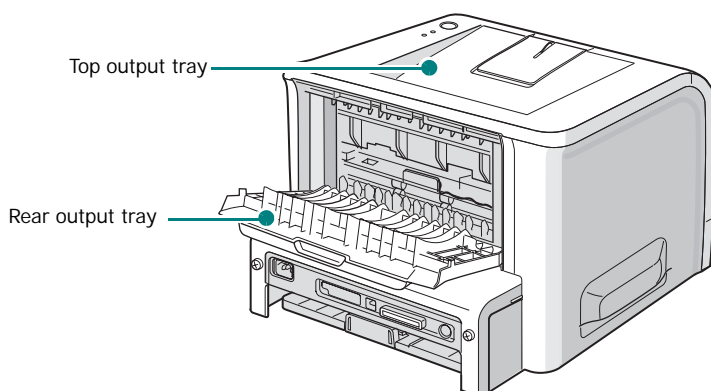
- Attempting to print on damp, curled, wrinkled, or torn paper can cause paper jams and poor print quality.
- Use cut-sheet paper only. You cannot use multi-part paper.
- Use only high-quality, copier grade paper for the best print quality.
- Do not use paper that has already been printed on or that has been fed through a photocopier.
- Do not use paper with irregularities, such as tabs or staples.
- Do not attempt to load any tray during printing and never overfill the tray. This could cause a paper jam.
- Avoid paper with embossed lettering, perforations, or texture that is too smooth or too rough.
- Colored paper should be of the same high quality as white photocopy paper. The pigments must withstand the printer's fusing temperature of 400°F (205°C) for 0.1 second without deterioration. Do not use paper with a colored coating that was added after the paper was produced.
- Preprinted forms must be printed with nonflammable, heat-resistant inks that do not melt, vaporize, or release hazardous emissions when subject to the printer's approximately 400°F (205°C) fusing temperature for 0.1 second.
- Store paper in its ream wrapper until ready to use. Place cartons on pallets or shelves, not on the floor.
- Do not place heavy objects on top of the paper, whether it is packaged or unpackaged.
- Keep paper away from moisture, direct sunlight, or other conditions that can cause it to wrinkle or curl.



NOTE: Do not use carbonless paper or tracing paper. They are unstable at the fusing temperature and can give off fumes, or cause damage to the paper.

Selecting the Output Location

The printer has two output locations; the rear output tray and the top output tray.



To use the top output tray, be sure that the rear output tray is closed. To use the rear output tray, open it.

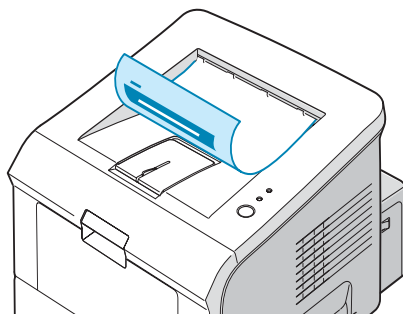


NOTES:

- If paper coming out of the top output tray has problems, such as excessive curl, try printing to the rear output tray.
- To avoid paper jams, do not open or close the rear output tray while the printer is printing.

Printing to the Top Output Tray *(Face down)*

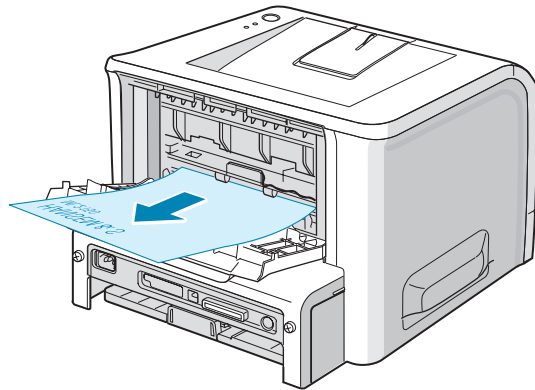
The top output tray collects paper face-down, in the order in which it was printed. The top output tray should be used for most print jobs.



NOTE: If you continuously print many pages, the surface of the output tray may become hot. Be careful not to touch the surface, and especially keep children away from the surface.

Printing to the Rear Output Tray *(Face up)*

The printer always prints to the rear output tray if it is open. Paper comes out of the printer face-up, and you will need to remove each sheet from the rear output tray.

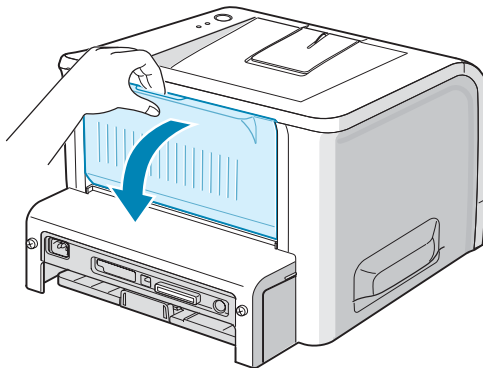


Printing from the Tray 1 to the rear output tray provides a **straight paper path**. Opening the rear output tray might improve the output quality with the following:

- envelopes
- labels
- transparencies

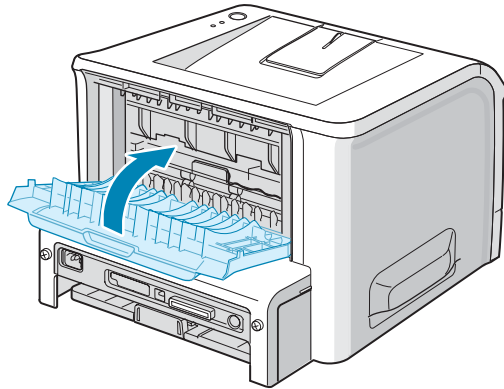
To open the rear output tray:

- 1 Open the rear door by pulling it down. The cover functions as the output tray.



CAUTION: The fusing area inside the back of your printer is hot when the printer is turned on. Be careful not to be burned when accessing this area.

- 2 If you do not want to use the rear output tray, close the tray. The pages will stack on the top output tray.

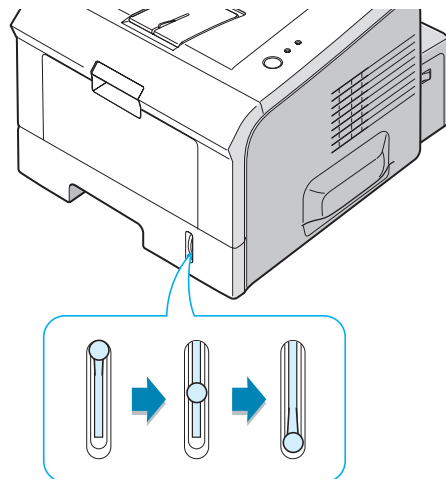


3

Loading Paper

Proper paper loading helps prevent paper jams and ensure trouble-free printing. Do not remove the paper tray while a job is printing. Doing so may cause a paper jam. See “Sizes and Capacities” on page 3.3 for acceptable paper size and capacities for each tray.

The paper level bar on the front of the paper tray(s) shows the amount of paper currently left in the tray. When the tray is empty, the indicator drops to the bottom.

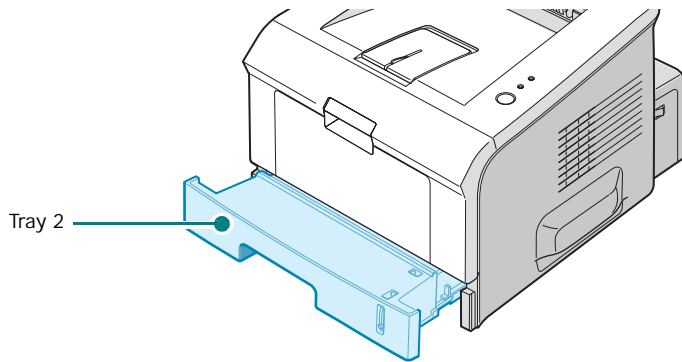


Paper full ▲

▲ Paper empty

Using the Tray 2

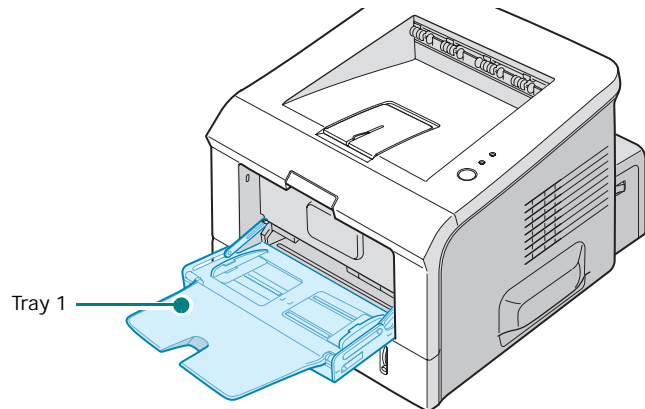
Tray 2 can hold up to 250 sheets of paper. See “Sizes and Capacities” on page 3.3 for acceptable paper size and capacities of each tray.



Load a stack of paper into the tray and print. For details about loading paper in Tray 2, see “Loading Paper” on page 2.7.

Using the Tray 1

The Tray 1 is located in the front of your printer. It can be closed when you are not using it, making the printer more compact.

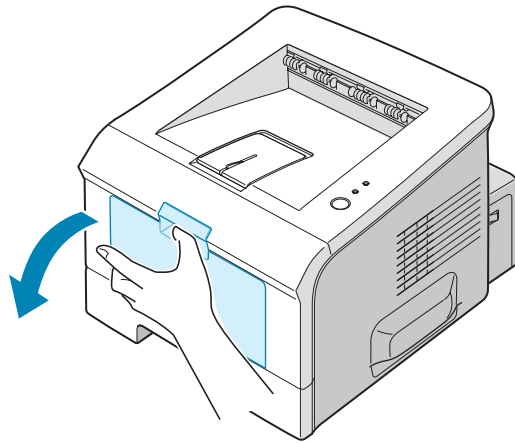


The Tray 1 can hold several sizes and types of paper, such as transparencies, cards, and envelopes. You may also want to use the Tray 1 for single page print jobs on letterhead, colored paper for use as separator sheets, or other special materials that you do not normally keep in the paper tray. You can load approximately 50 sheets of plain paper, 5 envelopes, 5 transparencies, 5 sheets of card stock or 5 labels at a time.

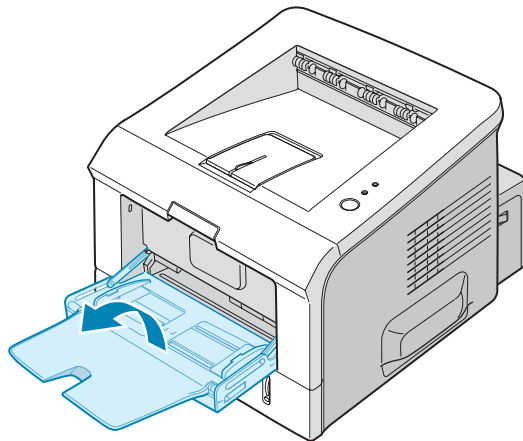
- Load only one size of print material at a time in the Tray 1.
- To prevent paper jams, do not add paper when there is still paper in the Tray 1. This also applies to other types of print materials.
- Print materials should be loaded face up with the top edge going into the Tray 1 first and be placed on the centre of the tray.
- Do not place objects on the Tray 1. Also avoid pressing down or applying excessive force on it. The tray may fall from the printer.

To load paper in the Tray 1:

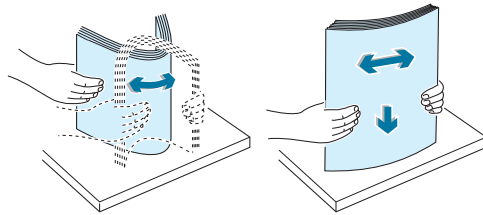
- 1 Pull the Tray 1 down towards you.



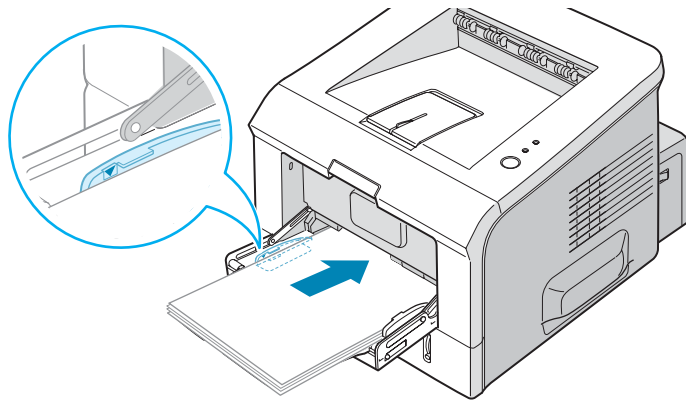
- 2 Unfold the extender to extend the tray to its full-length to hold longer paper.



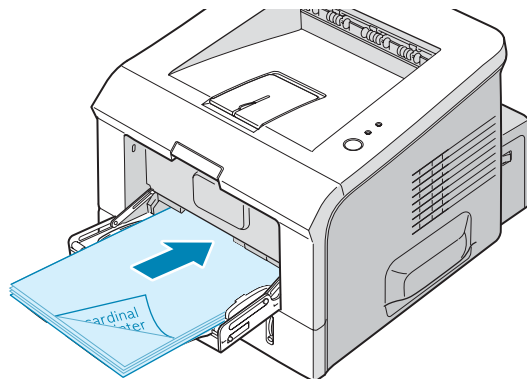
- 3 Prepare a stack of paper for loading by flexing or fanning the paper back and forth. Straighten the edges on a level surface.



- 4 Place paper on the centre of the tray **with the print side face up**. Pay attention to the paper limit mark on the left inside wall of the tray. Paper overloading may cause paper jams.

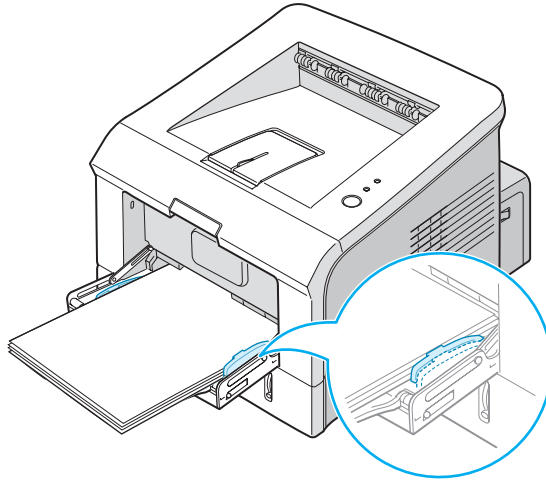


If you want to print on previously printed paper from the Tray 1, the printed side should be facing down with an uncurled edge to the printer. If you experience problems with paper feed, turn the paper around.



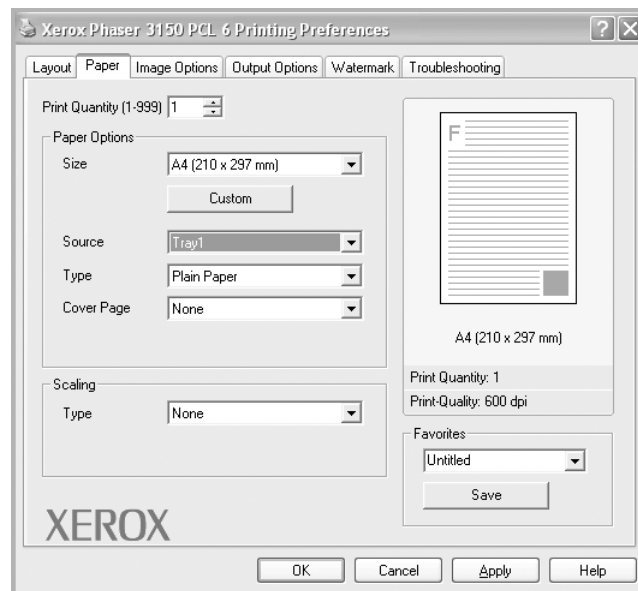
NOTE: Make sure that you have not loaded too much print material. The print material buckles if you load a stack that is too deep or push it in too far.

- 5 Slide the paper width guide and adjust it against the stack of print material without bending.



NOTE: Your printer cannot automatically detect the size of paper loaded in the Tray 1. Loading the Tray 1 with the correct paper size allows you to select paper by size rather than paper source when you print from your software application. You do not have to check which paper is loaded in the Tray 1 before printing.


- 6 When you print a document, select the paper source and type in the software application.



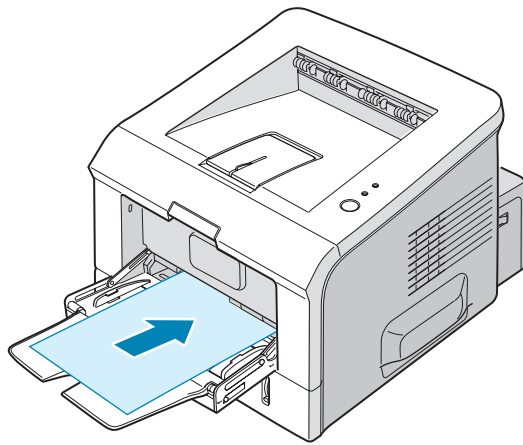
- 7 After printing, push the extender back to its place and close the Tray 1.

Using the Manual Feed Mode

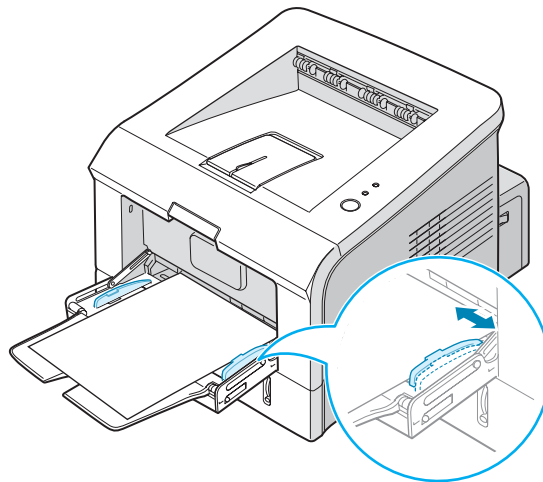
If you select **Tray1 (Manual)** in the **Source** option when changing print settings, you can manually load a sheet of print material in the Tray 1. Manually loading paper can be helpful when you want to check the print quality after each page is printed.

This loading procedure is almost the same as the procedure for loading in the Tray 1, except you load paper sheet-by-sheet in the Tray, send print data to print the first page, and press the  button on the control panel to print each following page.

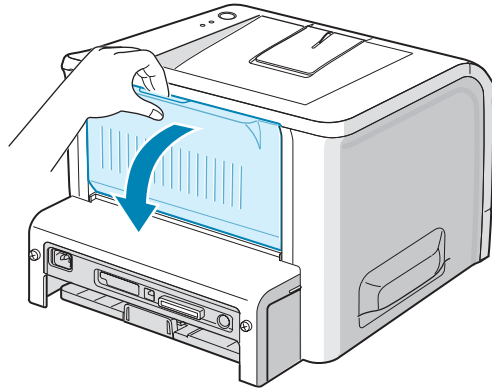
- 1 Load a sheet of print material on the centre of the Tray 1 **with the print side up**.



- 2 Slide the paper width guide and adjust it against the material without bending.

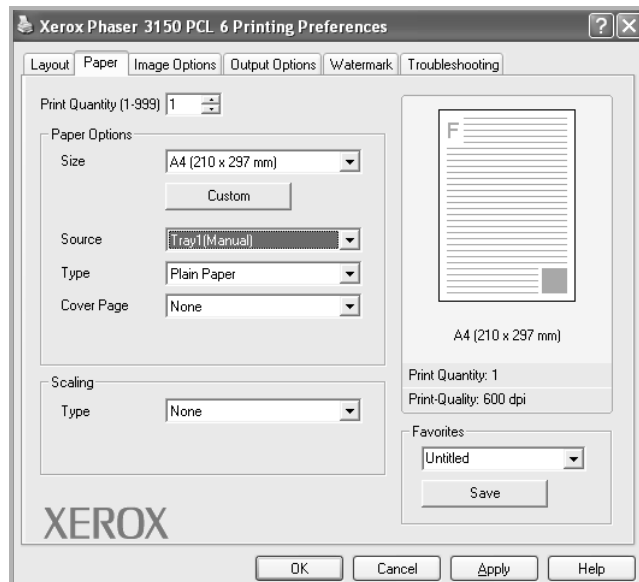




- 3 Open the rear output tray.



3

- 4 When you print a document, you must select **Tray1(Manual)** for **Source** from the software application, and then select the correct paper size and type.



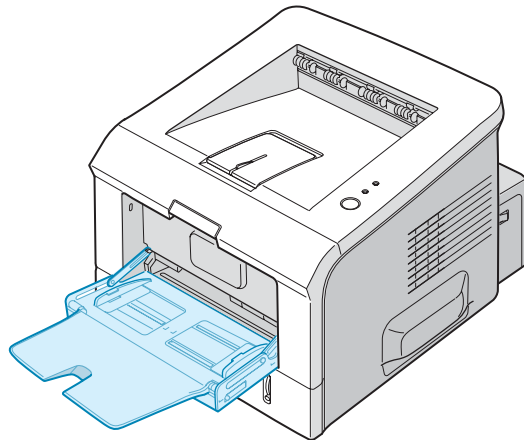
- 5 Press the  button on the printer to start feeding.
 - 6 Printing is started.
 - 7 If you are printing multiple pages, load the next sheet after the first page prints out, and press the  button.
- Repeat this step for every page to be printed.

Printing on Envelopes

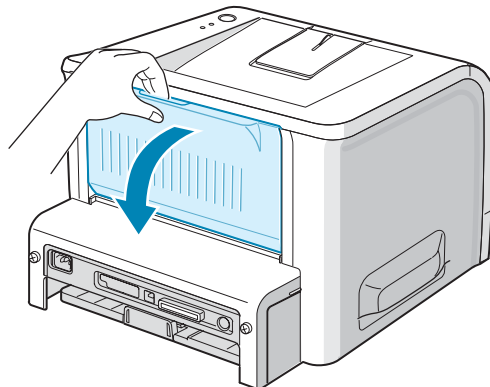
Guidelines

- Only use envelopes recommended for laser printers. Before loading envelopes into the Tray 1, make sure that they are undamaged and are not stuck together.
- Do not feed stamped envelopes.
- Never use envelopes with clasps, snaps, windows, coated lining, or self-stick adhesives. These envelopes may severely damage the printer.

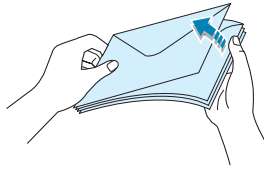
- 1 Open the Tray 1 and unfold the extender to its full-length position.



- 2 Open the rear output tray.



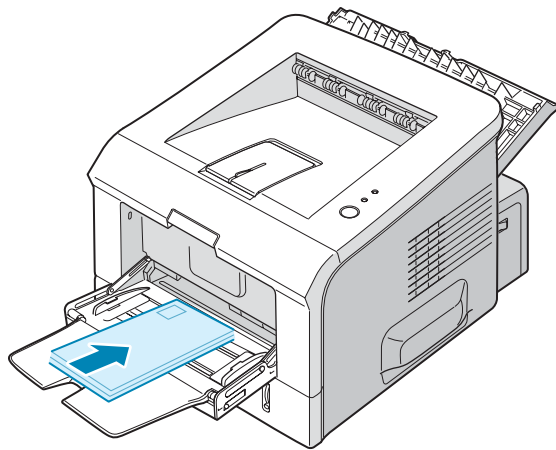
- 3** Flex or fan the edge of the envelope stack to separate the pages before loading.



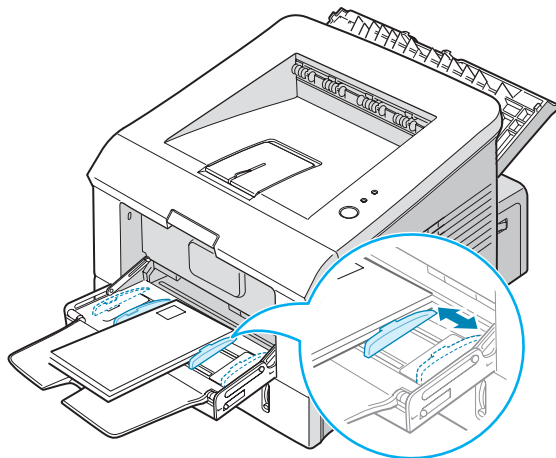
- 4** Load the envelopes onto the Tray 1 **with the flap side down**.

The stamp area is **on the left side** and the end of the envelope **with the stamp area enters the tray first**.

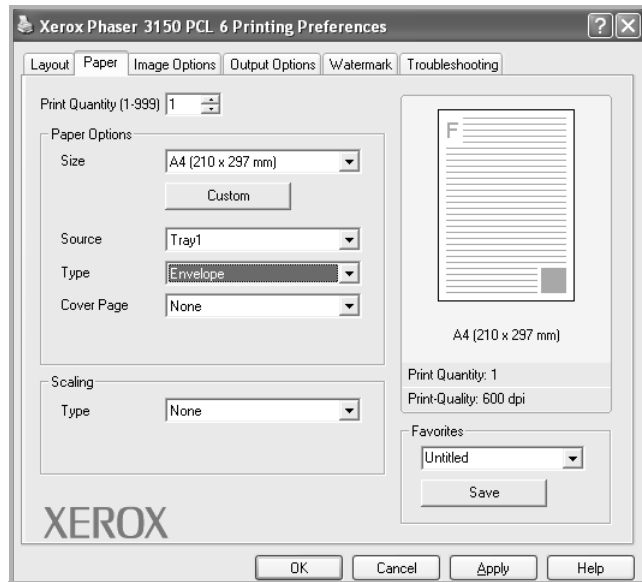
3



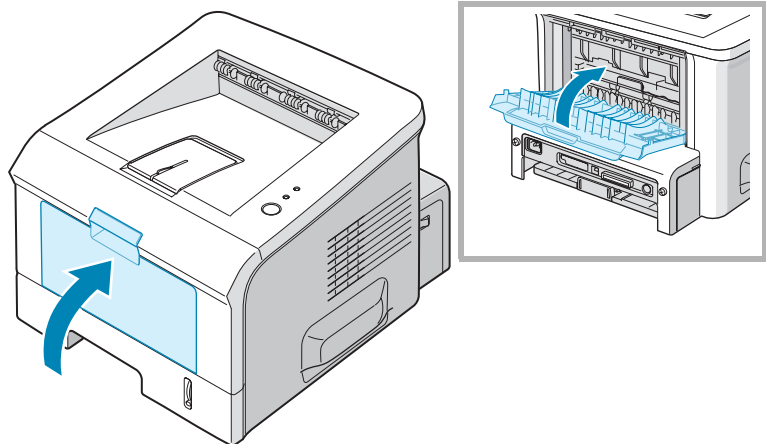
- 5** Adjust the guide to the edge of the envelope stack.



- 6 When you print on envelopes, select the appropriate paper source, type, and size in the software application. For details, see page 4.7.



- 7 After printing, close the Tray 1 and the rear output tray.



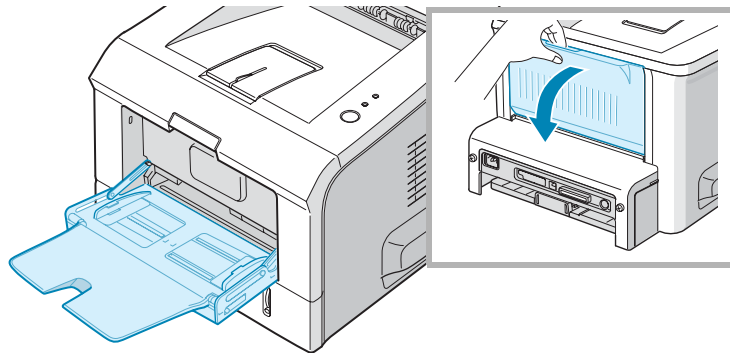
Printing on Labels

Guidelines

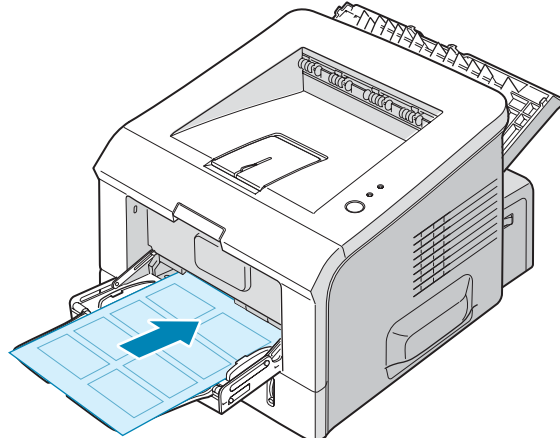
- Only use labels recommended for laser printers.
- Verify that the labels' adhesive material can tolerate fusing temperature of 205°C (400°F) for 0.1 second.
- Make sure that there is no exposed adhesive material between the labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to printer components.
- Do not feed a sheet of labels through the printer more than once. The adhesive backing is designed for one pass through the printer.
- Do not use labels that are separating from the backing sheet or are wrinkled, bubbled, or otherwise damaged.

3

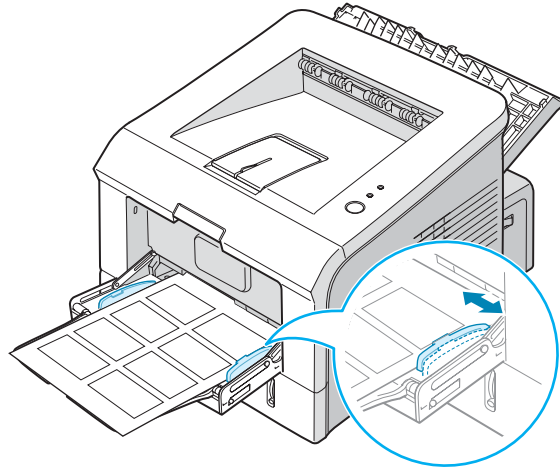
- 1 Open the Tray 1 and the rear output tray.



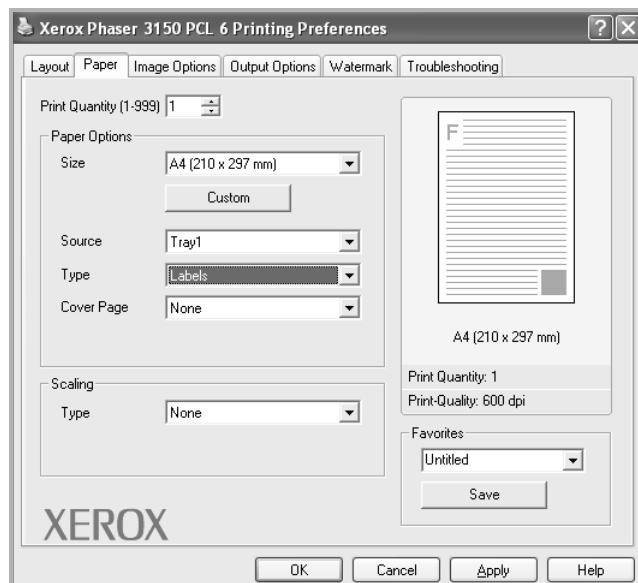
- 2 Load labels **with the print side up**.



- 3 Adjust the guide to fit the width of the sheet of labels.



- 4 When you print on labels, select the appropriate paper source, type, and size in the software application. For details, see page 4.7.



- 5 After printing, close the Tray 1 and the rear output tray.



NOTE: To prevent labels from sticking, do not let the printed label sheets stack up as they are printed out.

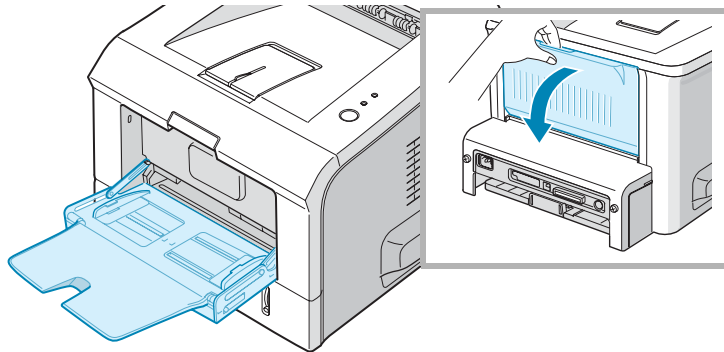
Printing on Transparencies

Guidelines

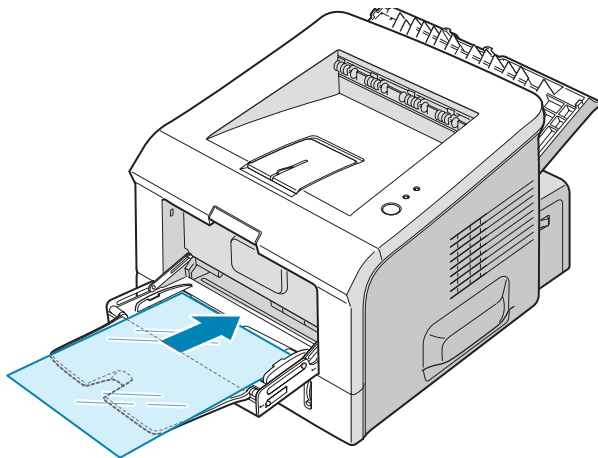
- Only use transparencies recommended for use in laser printers.
- Ensure that transparencies are not wrinkled, curled, or have any torn edges.
- Hold the transparencies by the edges and avoid touching the print side. Oils deposited on the transparency can cause print quality problems.
- Be careful not to scratch or leave fingerprints on the print side.

3

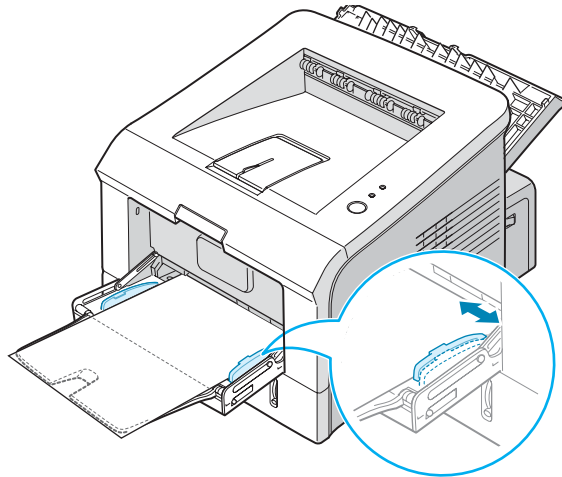
- 1 Open the Tray 1 and the rear output tray.



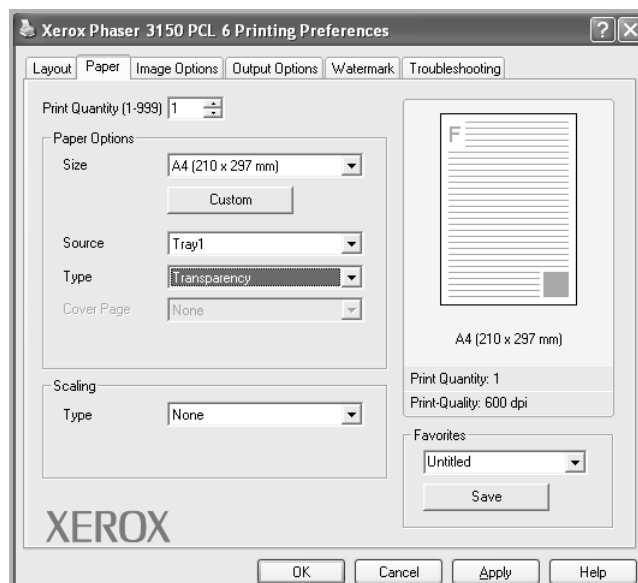
- 2 Load transparencies **with the print side up**, and **the top with the adhesive strip entering the printer first**.



- 3 Adjust the guide to fit the width of the transparencies.



- 4 When you print on transparencies, select the appropriate paper source, type, and size in the software application. For details, see page 4.7.



- 5 After printing, close the Tray 1 and the rear output tray.



NOTES:

- If you print on thin transparencies to the rear output tray, they can curl. In this case, use the top output tray. If the problem persists, make sure your transparencies meet the printer's specifications.
- To prevent transparencies from sticking, do not let the printed sheets stack up as they are printed out.
- Place transparencies on a flat surface after removing them from the printer.

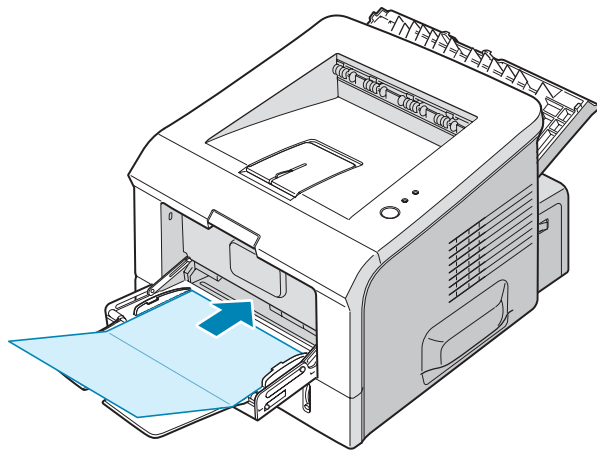
Printing on Card Stock or Custom-sized Materials

Postcards, 3.5 by 5.83 in. (index) cards and other custom-sized materials can be printed with your printer. The minimum size is 76 by 127 mm (3 by 5 in.) and the maximum size is 216 by 356 mm (8.5 by 14 in.).

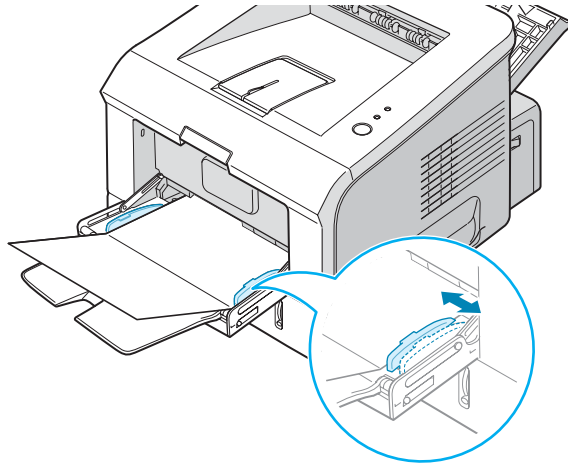
Guidelines

- Always insert the short-edge into the Tray 1 first. If you want to print in landscape mode, make this selection through your software. Inserting paper long-edge first may cause a paper jam.
- Do not load more than 5 cards into the Tray 1 at a time.
- Do not print on media smaller than 76 mm (3 in.) wide or 127 mm (5 in.) long.
- Set margins at least 6.4 mm (0.25 in.) away from the edges of the material in the software application

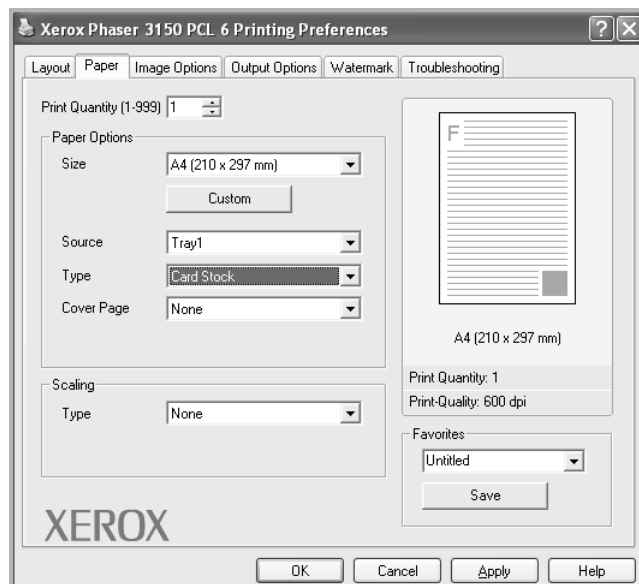
- 1 Open the Tray 1 and the rear output tray.
- 2 Load print material with print side up and short edge first.



- 3 Adjust the guide to fit the width of the material stack.



- 4 When you print, select the appropriate paper source, type, and size in the software application. For details, see page 4.7.



NOTE: If the size of your print material is not listed in the **Size** box in the **Paper** tab of the printer driver preferences, click the **Custom** button and set the size manually. See page 4.7.



CAUTION: When you use 76 by 127 mm (3 by 5 in.) paper and it is too thin, a paper jam may occur. Use card stock heavier than 105g/m²

- 5 After printing, close the Tray 1 and the rear output tray.

Printing on Preprinted Paper

Preprinted paper is paper that has some type of printing placed on it before it is sent through the printer (paper that has a preprinted logo at the top of the page, for example).

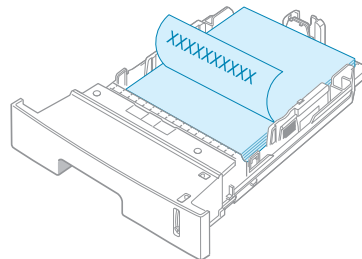
Guidelines

- Letterheads must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the printer's fusing temperature of 400 °F (205 °C) for 0.1 second.
- Ink on letterheads must be non-flammable and should not adversely affect any printer rollers.
- Forms and letterhead should be sealed in a moisture-proof wrapping to prevent changes during storage.
- Before you load preprinted paper as forms and letterhead, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper.

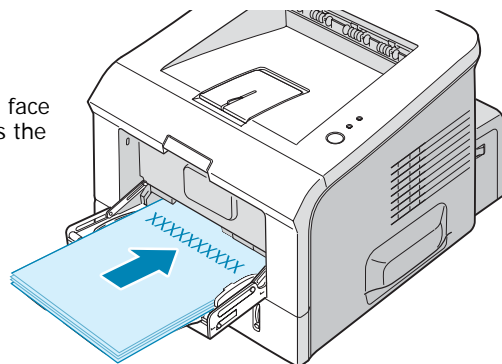
3

- 1 Load letterhead into the tray you want to use, as shown in the figures below. Adjust the guides to fit the width of the paper stack.

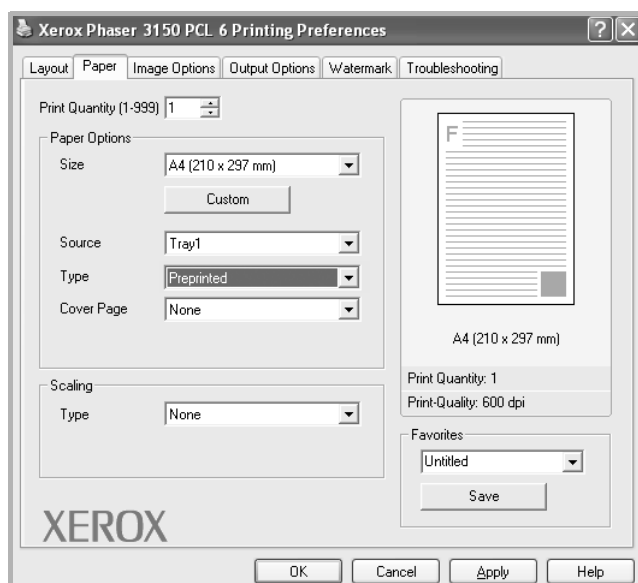
Load with the design face down, bottom edge towards the printer.



Load with the design face up, top edge towards the printer.



- 2 When you print, select the appropriate paper source, type, and size in the software application. For details, see page 4.7.



4

PRINTING TASKS

This chapter explains printing options and common printing tasks. This chapter includes:

- **Printing a Document**
- **Setting Paper Preferences**
- **Printing Multiple Pages on One Sheet of Paper (N-Up Printing)**
- **Printing a Reduced or Enlarged Document**
- **Fitting Your Document to a Selected Paper Size**
- **Printing Posters**
- **Using Watermarks**
- **Setting Image Options Preferences**
- **Using Output Options**
- **Using Troubleshooting**
- **Using the Status Monitor**
- **Setting Up a Locally Shared Printer**

Printing a Document

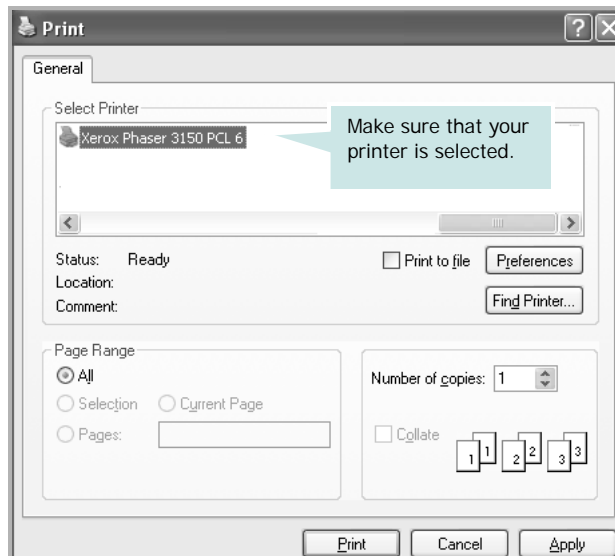
The following procedure describes the general steps required for printing from various Windows applications. The exact steps for printing a document may vary depending on the application program you are using. Refer to the User's Guide of your software application for the exact printing procedure.



NOTE: For detailed information about printing from a Linux system, see Chapter 7, "Using Your Printer in Linux."

- 1 Open the document you want to print.
- 2 Select **Print** from the **File** menu. The Print window is displayed (It may look slightly different depending on your application).

The basic print settings are selected within the Print window. These settings include the number of copies and print range.



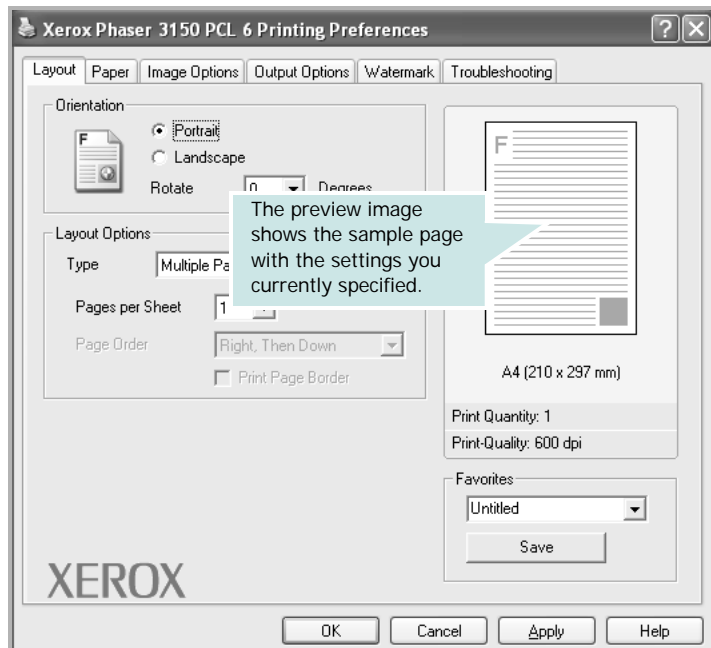
▲ Windows XP

- 3 To take advantage of the printer features provided by your printer, click **Preferences** in the application's print window and go to Step 4.

If you see **Setup**, **Printer**, or **Options**, click that button instead. Then click **Preferences** in the next screen.

- 4 Now you see the Xerox Phaser 3150 PCL 6 Printing Preferences window, which allows you to access all the information you will need when using your printer.

The **Layout** tab is first displayed.



4

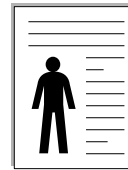
If necessary, select the **Orientation** option.

The **Orientation** option allows you to select the direction in which information is printed on a page.

- **Portrait** prints across the width of the page, letter style.
- **Landscape** prints across the length of the page, spreadsheet style.
- If you want to turn the page upside down, select **180** from the **Rotate** drop-down list.



▲ Landscape



▲ Portrait

- 5 From the **Paper** tab, select the paper source, size and type. For further details, see page 4.7.
- 6 Click other tabs on the top of the Xerox Phaser 3150 PCL 6 Printing Preferences window to access other features, if needed.

7 When you complete setting the Preferences, click **OK** until the Print window is displayed.

8 Click **Print** to start printing.




NOTES:

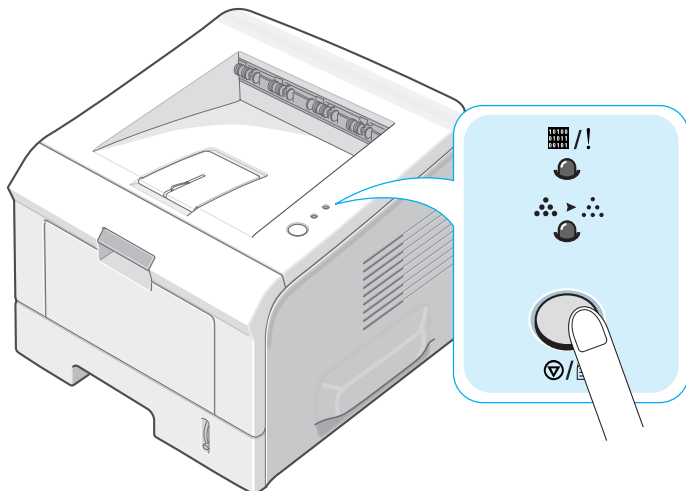
- Most Windows applications will override settings you specify in the printer driver. Change all print settings available in the software application first, and change any remaining settings using the printer driver.
- The settings you change remain in effect only while you are using the current programme. To make your changes permanent, make them in the **Printers** folder. Follows this procedure:
 1. Click the Windows **Start** menu.
 2. For Windows 98/Me/NT 4.0/2000, select **Settings** and then **Printers**.
For Windows XP, select **Printers and Faxes**.
 3. Select the **Xerox Phaser 3150 PCL 6** printer.
 4. Click the right mouse button on the printer icon and:
 - In Window 98/Me, select **Properties**.
 - In Windows 2000/XP, select **Printing Preferences**.
 - In Windows NT 4.0, select **Document Default**.
 5. Change the settings on each tab, and click **OK**.

Cancelling a Print Job

There are two ways to cancel a print job.

To stop a print job from the control panel:

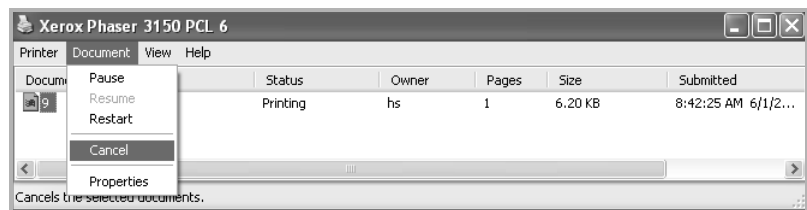
Press the  button on the control panel.



The printer will finish printing the page that is moving through the printer and delete the rest of the print job. Pressing the button cancels only the current job in the printer. If more than one print job is in the printer memory, the button must be pressed once for each job.

To stop a print job from the Printers folder:

- 1 From the Windows **Start** menu, select **Settings**.
- 2 Select **Printers** (Windows 98/Me/NT 4.0/2000) or **Printers and Faxes** (Windows XP) to open the Printers window, and double-click the **Xerox Phaser 3150 PCL 6** icon.
- 3 From the **Document** menu, select **Cancel Printing** (Windows 98/Me) or **Cancel** (Windows NT 4.0/2000/XP).



▲ Windows XP

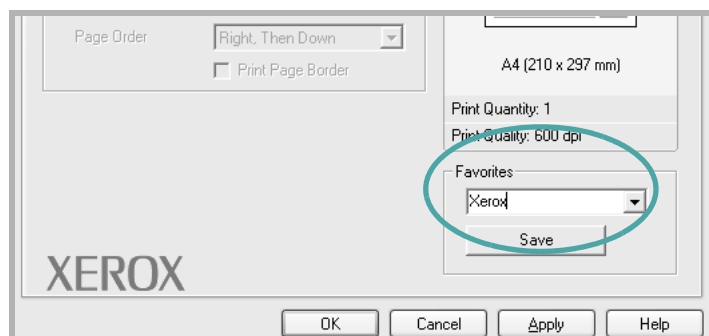
4

Using a Favorite Setting

The **Favorites** option, which is visible on each Preferences tab, allows you to save the current Preferences settings for future use.

To save a Favorites item:

- 1 Change the settings as needed on each tab.
- 2 Enter a name for the item in the **Favorites** input box.



3 Click **Save**.


To use a saved setting, just select the item from the **Favorites** drop down list.

To delete a Favorites item, select it from the list and click **Delete**.

You can also restore the printer driver's default settings by selecting **Printer Default** from the list.

Using Help

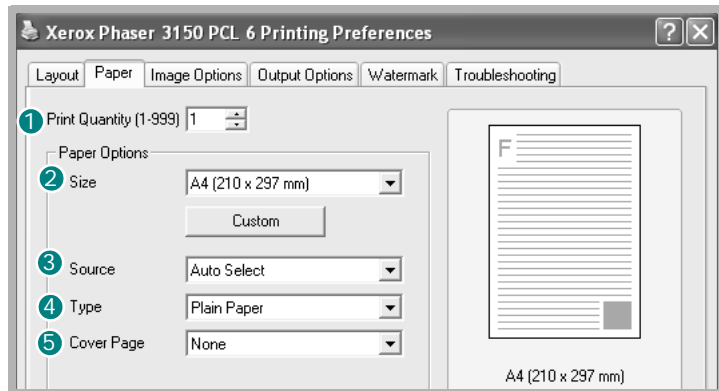
Your printer has a help screen that can be activated by the **Help** button in the printer's Preferences window. These help screens give detailed information about the printer features provided by the printer driver.

You can also click  from the upper right hand corner, and then click on any setting.

Setting Paper Preferences

Use the following options to set the basic paper handling needs when you access the printer preferences. See page 4.2 for more information about accessing printer preferences.

Click the **Paper** tab to access various paper preferences.

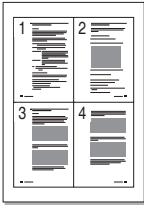


4

Property	Description
1 Print Quantity	Print Quantity allows you to choose the number of copies to be printed. You can enter up to 999.
2 Size	<p>The Size option allows you to choose the size of paper loaded in the tray.</p> <p>If the required size is not listed in the Size box, click Custom. When the Custom Page Size window appears, set the paper and click OK. The size setting appears in the Size list so that you can select it.</p> <p>Enter the custom name you want to use.</p> <p>Enter the paper size.</p>

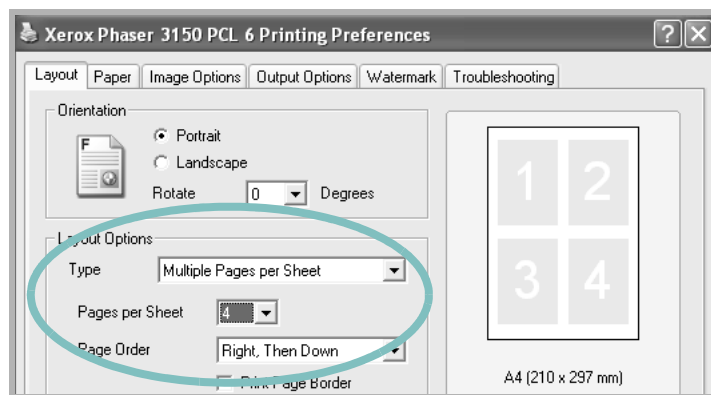
Property	Description
③ Source	<p>Make sure that Source is set to the corresponding paper tray.</p> <p>The Tray 1 (Manual) source is used when printing to special materials. You have to load one sheet at a time into the Tray 1. See page 3.12.</p> <p>If the paper source is set to Auto Select, the printer automatically picks up print materials according to the following order: Tray 1, Tray 2.</p>
④ Type	<p>If you load a different type of print material, select the corresponding paper type. For more information on print materials, refer to Chapter 3, "Using Print Materials."</p> <p>To use recycled paper, which weighs from 20lb to 24lb, or other colored paper, select Colored Paper.</p>
⑤ Cover Page	<p>This property allows you to print the first page using a different paper type from the rest of the document. You can select the paper source for the first page.</p> <p>For example, load thick stock for the first page into the Tray1, and plain paper into the Tray2. Then, select Tray2 in the Source option and Tray1 in the Cover Page option.</p>

Printing Multiple Pages on One Sheet of Paper (N-Up Printing)

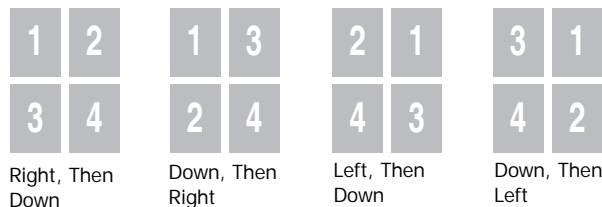


You can select the number of pages to print on a single sheet of paper. To print more than one page per sheet, the pages will appear decreased in size and arranged on the sheet. You can print up to 16 pages on one sheet.

- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 From the **Layout** tab, choose **Multiple Pages per Side** in the **Type** drop-down list.
- 3 Select the number of pages you want to print per sheet (1, 2, 4, 6, 9 or 16) in the **Pages per Sheet** drop-down list.



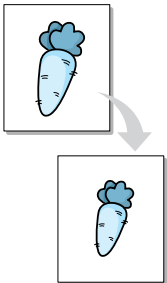
- 4 Select the page order in the **Page Order** drop-down list, if necessary.



Check **Print Page Border** to print a border around each page on the sheet. **Print Page Border** is enabled only if the pages per sheet is 2, 4, 6, 9, or 16.

- 5 Click the **Paper** tab and select the paper source, size, and type.
- 6 Click **OK** and print the document.

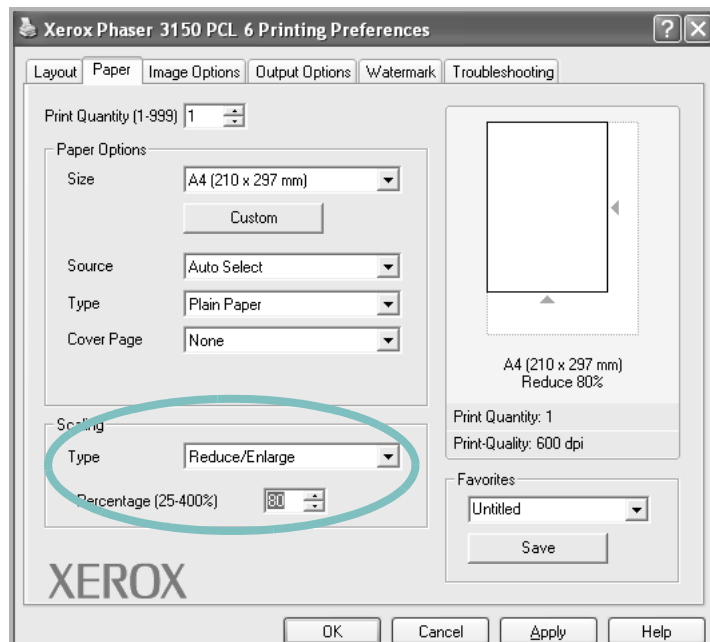
Printing a Reduced or Enlarged Document



You can scale your print job on a page.

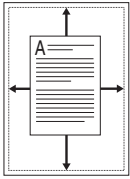
- 1 When you change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 From the **Paper** tab, select **Reduce/Enlarge** in the **Type** drop-down list.
- 3 Enter the desired scaling rate in the **Percentage** input box.

You can also click the ▲ or ▼ button.



- 4 Select the paper source, size, and type.
- 5 Click **OK** and print the document.

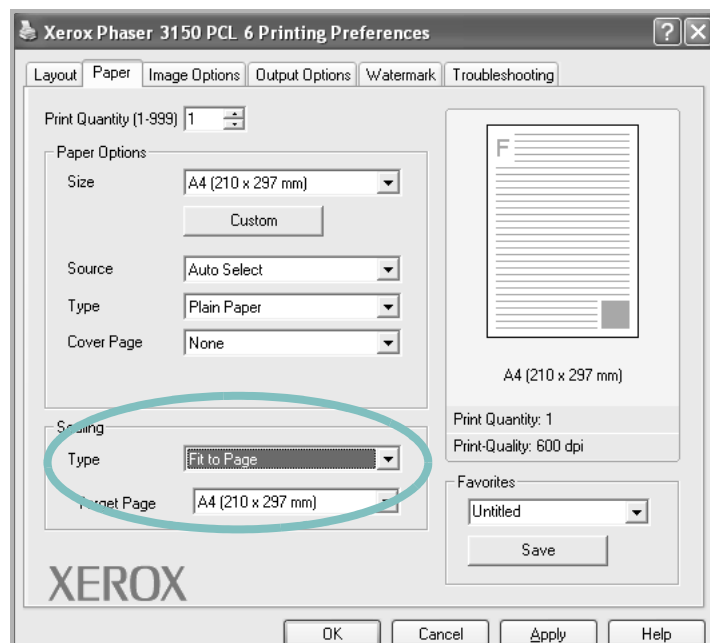
Fitting Your Document to a Selected Paper Size



This printer feature allows you to scale your print job to any selected paper size regardless of the digital document size. This can be useful when you want to check fine details on a small document.

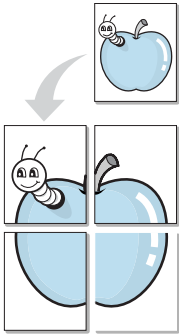
- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 From the **Paper** tab, select **Fit to Page** in the **Type** drop-down list.
- 3 Select the correct size from the **Target Page** drop-down list.

4



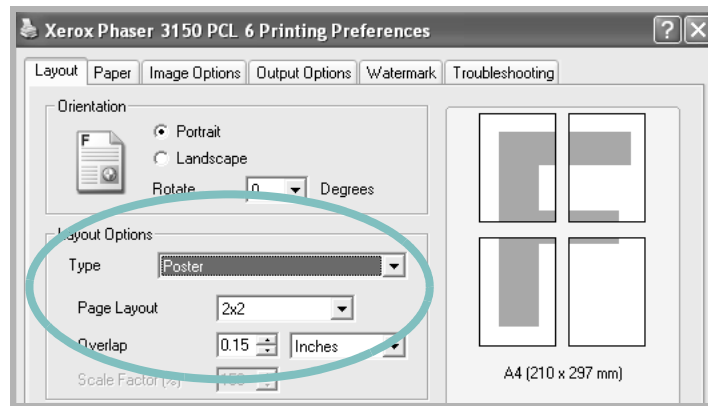
- 4 Select the paper source, size and type.
- 5 Click **OK** and print the document.

Printing Posters



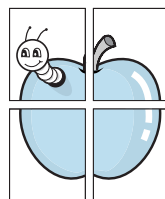
This feature allows you to print a single-page document onto 4, 9 or 16 sheets of paper, for the purpose of pasting the sheets together to form one poster-size document.

- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 From the **Layout** tab, select **Poster** in the **Type** drop-down list.

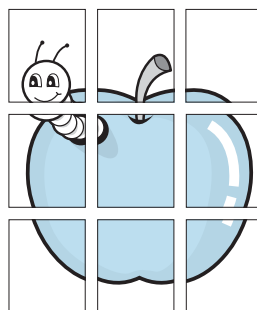


- 3 Configure the poster option:

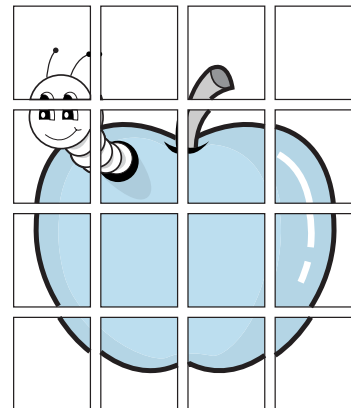
You can select the page layout from 2x2, 3x3, 4x4 or Custom. If you select 2x2, the output will be automatically stretched to cover 4 physical pages.



▲ 2 x 2

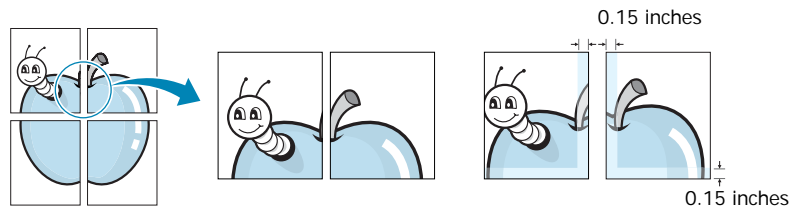


▲ 3 x 3



▲ 4 x 4

Specify an overlap in millimeters or inches to make it easier to reconstruct the resulting poster.



- 4 Click the **Paper** tab and select the paper source, size and type.
- 5 Click **OK** and print the document. You can complete the poster by reconstructing the resulting pages.

Using Watermarks



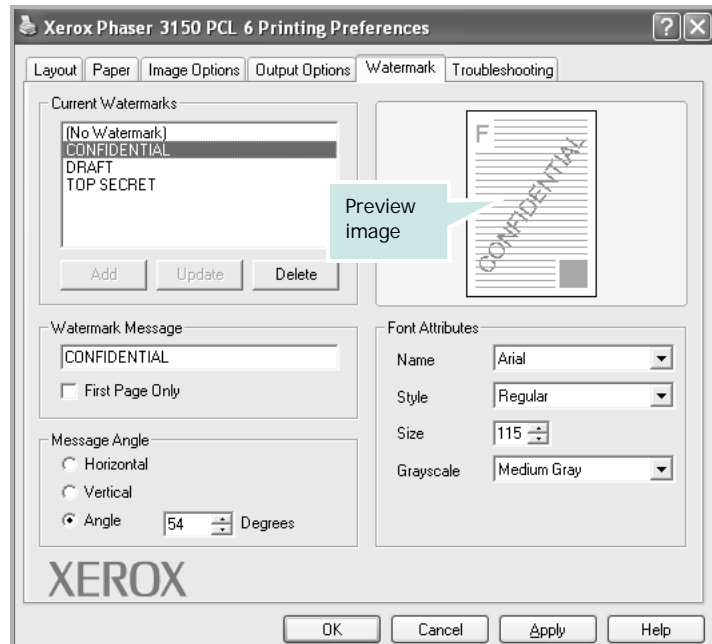
The Watermark option allows you to print text over an existing document. For example, you may want to have large gray letters reading "DRAFT" or "CONFIDENTIAL" printed diagonally across the first page or all pages of a document.

There are several predefined watermarks that come with your printer, and they can be modified or you can add new ones to the list.

Using an Existing Watermark

- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.

- Click the **Watermark** tab, and select the desired watermark in the **Current Watermarks**. You will see the selected watermark in the preview image.



- Click **OK** and start printing.

Creating a Watermark

- To change the print settings from your software application, access the printer preferences. See page 4.2.
- Click the **Watermark** tab.
- Enter the desired text message in the **Watermark Message** box.

This will be displayed in the preview window. The preview image is provided so that you can see how the watermark will appear on the printed page.

If the **First Page Only** box is checked, the watermark will be printed on the first page only.

- Select the desired watermark options.

You can select the font name, style, and size, and grayscale level from the **Font Attributes** section and set the angle of the watermark from the **Message Angle** section.

- 5 Click **Add** to add a new watermark to the list.
- 6 When you finish editing, click **OK** and start printing.

To stop printing the watermark, select **<No Watermark>** in the **Current Watermarks**.

Editing a Watermark

- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 Click the **Watermark** tab.
- 3 Select the watermark you want to edit in the **Current Watermarks** list, and change the watermark message and the options. Refer to “Creating a Watermark” on page 4.14.
- 4 Click **Update** to save the changes.
- 5 Click **OK**.

4

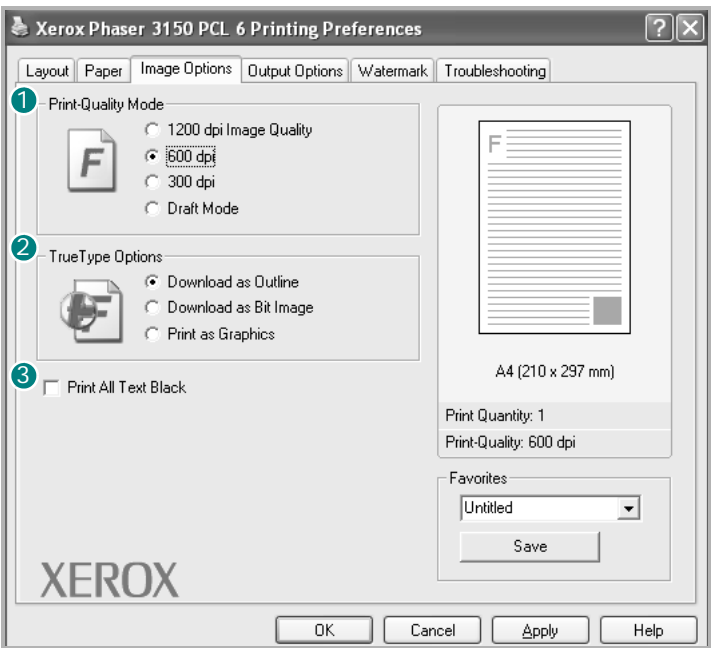
Deleting a Watermark

- 1 To change the print settings from your software application, access the printer preferences. See page 4.2.
- 2 Click the **Watermark** tab.
- 3 Select the watermark you want to delete in the **Current Watermarks** list and click **Delete**.
- 4 Click **OK**.

Setting Image Options Preferences

Use the following Image Options to adjust the print quality for your specific printing needs. See page 4.2 for more information about accessing printer preferences.

Click the **Image Options** tab to display the preferences shown below.



Property	Description
1 Print-Quality Mode	You can select the printing resolution by choosing from 1200 dpi Image Quality , 600 dpi , 300 dpi , Draft Mode . The higher the setting, the sharper the clarity of printed characters and graphics. Higher settings may increase the time it takes to print a document.

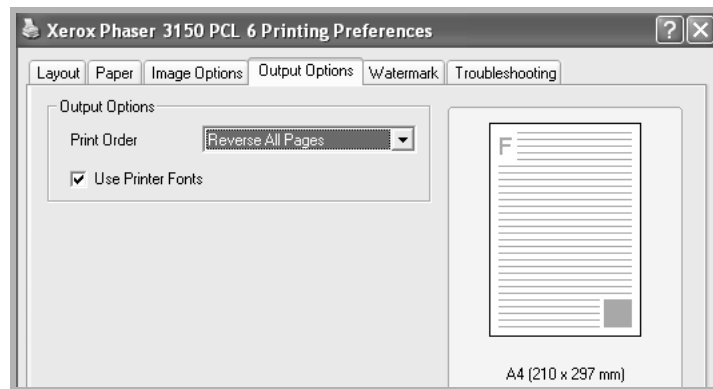
Property	Description
<p>② TrueType Options</p>	<p>This option determines what the driver tells the printer about how to image the text in your document. Select the appropriate setting according to the status of your document.</p> <ul style="list-style-type: none"> • Download as Outline: When this option is selected, the driver downloads the font data as outline images. • Download as Bit Image: When this option is selected, the driver will download the font data as bitmap images. Documents with complicated fonts, such as Korean or Chinese, or various other fonts, will print faster in this setting. • Print as Graphics: When this option is selected, the driver will download any fonts as graphics. When printing documents with high graphic content and relatively few TrueType fonts, printing performance (speed) may be enhanced in this setting.
<p>③ Print All Text Black</p>	<p>When this option is checked, all text in your document is allowed to print solid black, regardless of the color it appears on the screen. When it is not checked, colored text is allowed to print in shades of gray.</p>

Using Output Options

You can select options for output of your document.


See page 4.2 for more information about accessing printer preferences.

Click the **Output Options** tab.

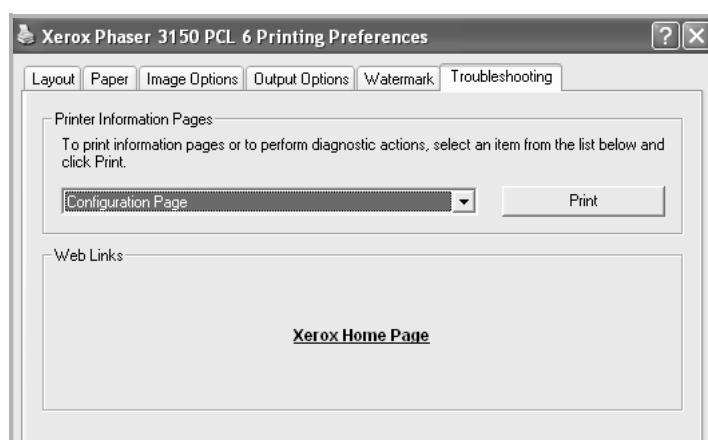


Option	Description
Print Order	<p>You can specify the sequence of printed pages by selecting the print order from the drop-down list.</p> <ul style="list-style-type: none">• Normal: Your printer prints in normal order.• Reverse All Pages: Your printer prints all pages in reversed order. This setting is helpful when you are using the rear output tray.• Print Odd Pages: Your printer prints only the odd pages of the document.• Print Even Pages: Your printer prints only the even pages of the document.
Use Printer Fonts	<p>When this option is checked, the printer uses the fonts that are stored in its memory (resident fonts) to print your document, rather than downloading the fonts used in your document. Because downloading fonts takes time, selecting this option can speed up your printing time.</p>

Using Troubleshooting

Use the Troubleshooting tab to print the printer information pages. You can also print the information pages by using the  button. See page 2.14 and page 5.8.

Click the **Troubleshooting** tab.



4

Option	Description
Printer Information Pages	<p>You can print information pages by selecting the page you want to print from the drop-down list and pressing the Print button.</p> <ul style="list-style-type: none">• Configuration Page: Your printer prints a configuration page.• PCL Font List: Your printer prints a PCL font list.• Office Demo Page: Your printer prints a demo page.
Web Links	<p>You can access the Xerox web site directly.</p>

Using the Status Monitor

If an error occurs while printing, the Status Monitor window appears, showing the error.



NOTES:

- The Status Monitor program can only be used if you connect the printer to your computer with the USB cable.
 - You can use the Status Monitor in Windows 98/Me/2000/XP.
-

Installing Status Monitor

- 1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM driver does not automatically run:

Select **Run** from the **Start** menu, type **X:\setup.exe** in the Open box (Where **X** is the drive letter for the CD-ROM drive) and click **OK**.

- 2 Select the language of the software you want to install.
- 3 Click **Status Monitor**.
- 4 Follow the instructions on the screen to complete the installation.



NOTE: To uninstall the Status Monitor program, see page 2.18.

Opening the Troubleshooting Guide

Double click the Status Monitor icon on the Windows task bar.

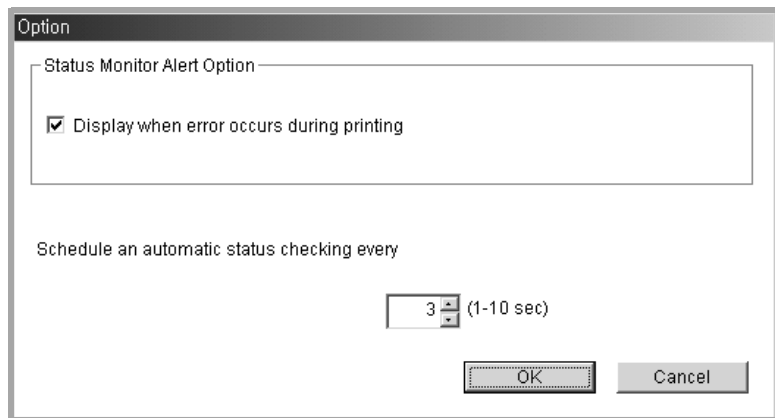
Double click this icon.



Or, from **Start** select **Programs**, **Xerox Phaser 3150**, and **Troubleshooting guide**.

Changing the Status Monitor Program Setting

The following window opens when you right-click the Status Monitor icon on the Windows task bar and select **Option**.



4

- **Display when error occurs during printing.** The Status Monitor balloon appears when an error occurs while printing.
- **Schedule an automatic status checking.** Allows the computer to update the printer status regularly. Setting the value close to 1 second causes the computer to check the printer status more frequently, thereby allowing a faster response to any printer error.



NOTE: When the Status Monitor balloon appears to indicate an error, you can cancel the current print job or see the corresponding solution. If you select **Cancel Printing**, turn the printer off and then click **OK**. It may take several minutes.

Setting Up a Locally Shared Printer

You can connect the printer directly to a selected computer, which is called the “host computer” on the network. The printer can then be shared by other users on the network through a Windows 98/Me/XP/NT 4.0/2000 network printer connection.

In Windows 98/Me

Setting Up the Host Computer

- 1 Start Windows.
- 2 From the **Start** menu, select **Control Panel**, and double-click on the **Network** icon.
- 3 Check the **File and Print Sharing** box, and click **OK**. Close the window.
- 4 From the **Start** menu, select **Printers** from **Settings** and double-click your printer name.
- 5 Select **Properties** in the **Printer** menu.
- 6 Click the **Sharing** tab and check the **Shared As** box. Fill in the **Shared Name** field and click **OK**.

Setting Up the Client Computer

- 1 Right-click the Windows **Start** button and select **Explorer**.
- 2 Open your network folder in the left column.
- 3 Right-click the shared name and select **Capture Printer Port**.
- 4 Select the port you want, check the **Reconnect at log on box**, and click **OK**.
- 5 From the **Start** menu, select **Settings** and then **Printers**.
- 6 Double-click your printer icon.

- 7 From the **Printer** menu, select **Properties**.
- 8 From the **Details** tab, select the printer port and click **OK**.

In Windows NT 4.0/2000/XP

Setting Up the Host Computer

- 1 Start Windows.
- 2 For Windows NT 4.0/2000, select **Settings**, and **Printers** from the **Start** menu.

For Windows XP, select **Printers and Faxes** from the **Start** menu.
- 3 Double-click your printer icon.
- 4 From the **Printer** menu, select **Sharing**.
- 5 For Windows NT 4.0, check the **Shared** box.

For Windows 2000, check the **Shared As** box.

For Windows XP, check the **Share this printer** box.
- 6 For Windows NT 4.0, fill in the **Share Name** field and click **OK**.

For Windows 2000/XP, fill in the **Shared Name** field and click **OK**.

Setting Up the Client Computer

- 1 Right-click the Windows **Start** button and select **Explorer**.
- 2 Open your network folder in the left column.
- 3 Click the shared name.
- 4 For Windows NT 4.0/2000, select **Settings** and **Printers** from the **Start** menu.

For Windows XP, select **Printers and Faxes** from the **Start** menu.

- 5 Double-click your printer icon.
- 6 From the **Printer** menu, select **Properties**.
- 7 From the **Ports** tab, click **Add Port**.
- 8 Select **Local port** and click **New Port**.
- 9 Fill in the **Enter a port name** field, enter the shared name.
- 10 Click **OK** and click **Close**.
- 11 For Windows NT 4.0, click **OK**.
For Windows 2000/XP, click **Apply** and click **OK**.



5

MAINTAINING YOUR PRINTER

This chapter provides suggestions for high-quality and economical printing and information for maintaining the toner cartridge and the printer.

This chapter includes:

- **Maintaining the Toner Cartridge**
- **Cleaning the Printer**
- **Printing Configuration Page**

Maintaining the Toner Cartridge

Toner cartridge storage

To get the maximum results from the toner cartridge, keep the following guidelines in mind.

- Do not remove the toner cartridge from its package until ready for use.
- Do not refill the toner cartridge. **The printer warranty does not cover damage caused by using a refilled cartridge.**
- Store toner cartridges in the same environment as the printer.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes.

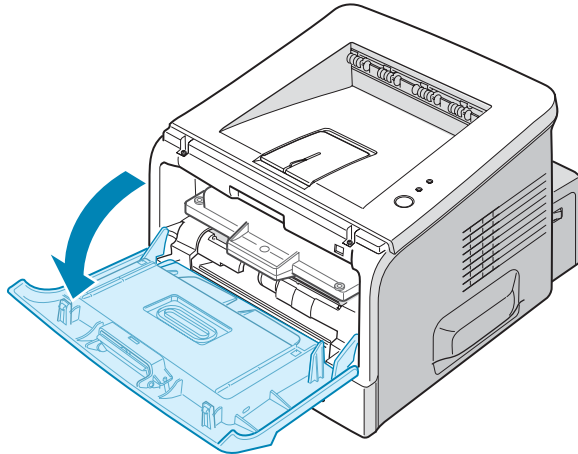
Toner cartridge life expectancy

The life of the toner cartridge depends on the amount of toner that print jobs require. When printing text at 5% coverage, a Standard Capacity toner cartridge lasts an average of 3,500 pages and a High Capacity toner cartridge lasts an average of 5,000 pages.

Redistributing Toner

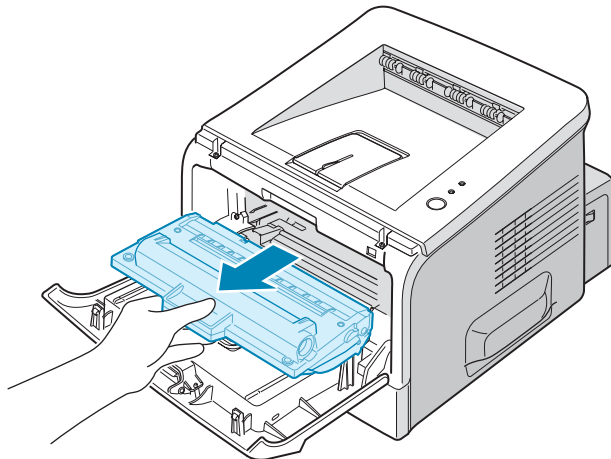
When toner is low, faded or light areas may appear on a printed page. You may be able to temporarily improve the print quality by redistributing the toner. The following procedures may allow you to finish the current print job before replacing the toner cartridge.

- 1 Grasp the front cover and pull it toward you to open.



5

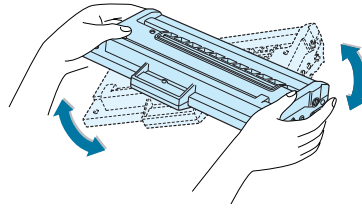
- 2 Pull the toner cartridge and remove it from the printer.



CAUTIONS:

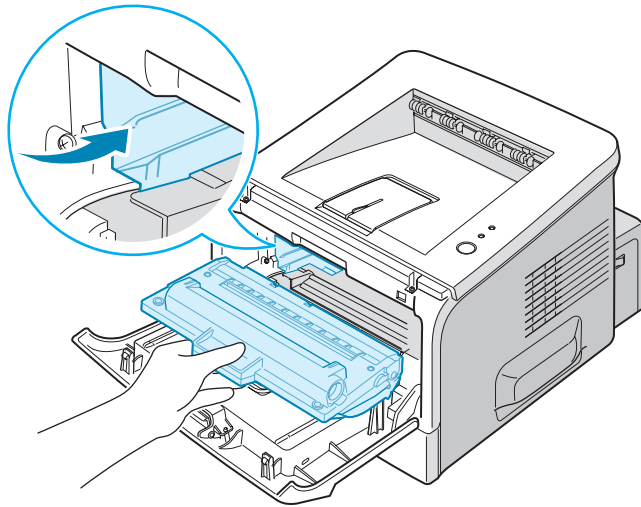
- Avoid reaching too far into the printer. The fusing area may be hot.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if left exposed for more than a few minutes and keep it in a flat and clean place.

- 3 Gently shake the toner cartridge from side to side five or six times to redistribute the toner.

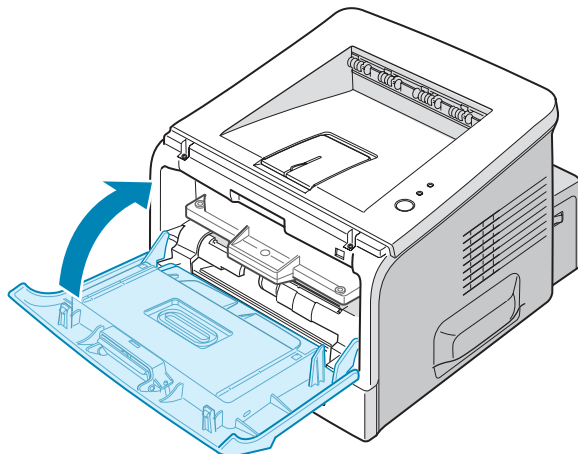


NOTE: If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot water sets toner into fabric.


- 4 Reinsert the toner cartridge into the printer. Ensure that the toner cartridge snaps into place.



- 5 Close the front cover. Make sure that the cover is securely closed. If it is not firmly closed, printing errors may occur when you print.



Replacing the Toner Cartridge

If the print remains light after redistributing the toner (see page 5.3) or the  LED blinks orange, replace the toner cartridge.

Remove the old cartridge and install a new toner cartridge. See “Installing the Toner Cartridge” on page 2.4.

Cleaning the Printer

To maintain print quality, follow the cleaning procedures below each time the toner cartridge is replaced or if print quality problems occur.



NOTE: While cleaning the inside of the printer, be careful not to touch the transfer roller (located underneath the toner cartridge). Oil from your fingers can cause print quality problems.



CAUTION: Cleaning the cabinet of the printer with surfactants containing large amounts of alcohol, solvent, or other strong substances can discolor or crack the cabinet.

5

Cleaning the Outside

Clean the cabinet of the printer with a soft, lint-free cloth. You can dampen the cloth slightly with water, but be careful not to let any water drip onto the printer or inside of it.

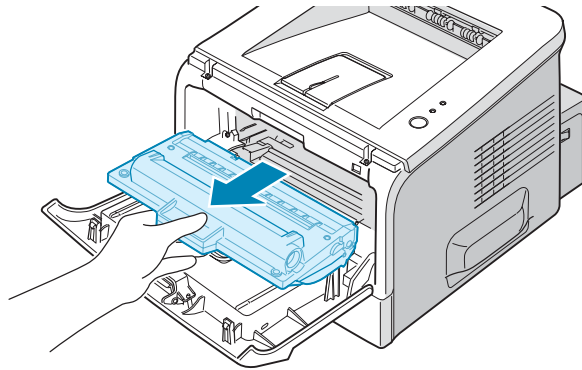
Cleaning the Inside

During the printing process, paper, toner, and dust particles can accumulate inside the printer. This buildup can cause print quality problems, such as toner specks or smearing. Cleaning the inside of the printer will eliminate or reduce these problems.

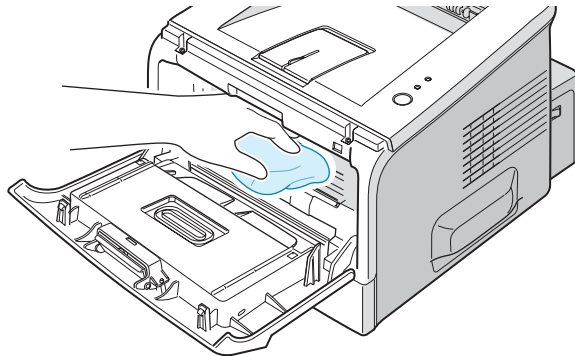
Cleaning inside the printer

- 1 Turn the printer off and unplug the power cord, then wait for the printer to cool.

- 2 Open the front cover. Pull the toner cartridge and remove it from the printer.

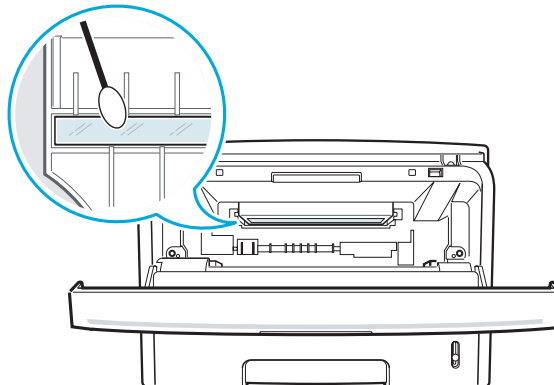


- 3 With a dry, lint-free cloth, wipe away any dust and spilled toner from the toner cartridge area and the toner cartridge cavity.

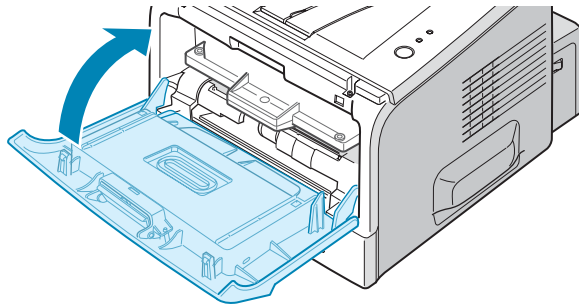


NOTE: To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary and keep it in a flat and clean place. Also, do not touch the black transfer roller inside the printer.

- 4 Locate the long strip of glass (LSU) inside the top of the cartridge compartment, and gently swab the glass to see if dirt turns the white cotton black.



- 5 Reinsert the toner cartridge and close the cover. Make sure that the cover is securely closed. If it is not firmly closed, printing errors may occur when you print.




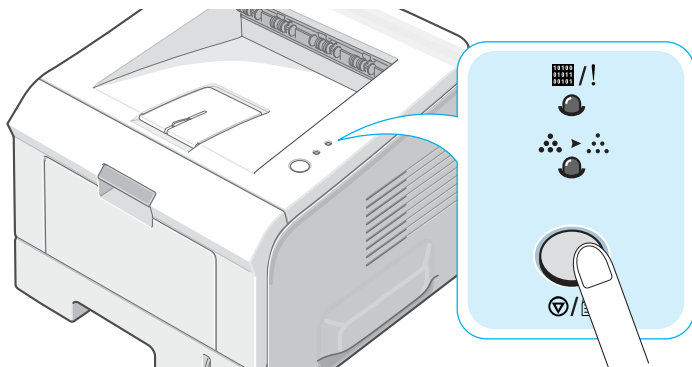
- 6 Plug in the power cord, and turn the printer on.

Printing a cleaning sheet

If you are experiencing blurred, faded, or smeared printouts, printing a cleaning sheet will clean the drum inside the toner cartridge. This process will produce a page with toner debris, which should be discarded.

5

- 1 Ensure that the printer is turned on and in the Ready mode with paper loaded in the tray.
- 2 Press and hold down the  button on the control panel for about 10 seconds until all LEDs turn on.



- 3 Your printer automatically picks up a sheet of paper from the tray and prints out a cleaning sheet with dust or toner particles on it.




NOTE: The cartridge cleaning process takes some time. To stop the process, turn the power off.

Printing Configuration Page

From the printer's control panel, you can print a configuration page. Use the configuration page to view current printer settings, or to help troubleshoot printer problems.

To print the configuration page:

- 1 Ensure that the printer is turned on and in the Ready mode with paper loaded in the tray.
- 2 Press and hold down the  button on the control panel for about 6 seconds until all LEDs blink fast.

The configuration page prints out.



6

SOLVING PROBLEMS

This chapter provides helpful information for what to do if you encounter an error while using your printer.

This chapter includes:

- **Troubleshooting Checklist**
- **Solving General Printing Problems**
- **Clearing Paper Jams**
- **Solving Print Quality Problems**
- **Troubleshooting Error Messages**
- **Common Windows Problems**
- **Common Linux Problems**


Troubleshooting Checklist

If the printer is not working properly, perform the series of checks in the list below. If the printer fails to adequately pass a checklist item, follow the corresponding troubleshooting suggestions.

Check	Solution
Print a demo page to verify that the printer is feeding paper correctly. See page 2.14 or page 4.19.	<ul style="list-style-type: none">• If a demo page does not print, check the paper supply in the paper tray.• If the paper jams in the printer, go to “Clearing Paper Jams” on page 6.6.
Check the demo page to see if it is printed correctly.	If there is a print quality problem, go to “Solving Print Quality Problems” on page 6.13.
Print a short document from a software application to verify that the computer and printer are connected and are communicating correctly.	<ul style="list-style-type: none">• If the page does not print, check the cable connection between the printer and the computer.• Check the print queue or print spooler to see if the printer has been paused.• Check the software application to ensure that you are using the proper printer driver and communication port. If the page is interrupted during printing, go to “Solving General Printing Problems” on page 6.3.
If completing the checklist does not resolve the printer problem, check the following troubleshooting sections.	<ul style="list-style-type: none">• “Solving General Printing Problems” on page 6.3.• “Troubleshooting Error Messages” on page 6.18.• “Common Windows Problems” on page 6.19.• “Common Linux Problems” on page 6.20.

Solving General Printing Problems

For problems with the operation of your printer, refer to the following table for suggested solutions.

Problem	Possible Cause	Solution
The printer does not print.	The printer is not receiving power.	Check the power cord connections. Check the power switch and the power source.
	The printer is not selected as the default printer.	Select Xerox Phaser 3150 PCL 6 as your default printer.
	Check the printer for the following:	<ul style="list-style-type: none">• The printer cover is not closed.• Paper is jammed.• No paper is loaded.• The toner cartridge is not installed. If a printer system error occurs, contact your service representative.
	The printer may be in manual feed mode and out of paper.	Add paper to the Tray 1, and press the  button on the printer's control panel.
	The connection cable between the computer and the printer is not connected properly.	Disconnect the printer cable and reconnect it.
	The connection cable between the computer and the printer is defective.	If possible test the cable by attaching it to another computer that is working properly and attempt to print a job. You can also try using a different printer cable and attempt to print a job.
	The port setting is incorrect.	Check the Windows printer setting to make sure that the print job is sent to the correct port, for example, LPT1. If the computer has more than one port, make sure that the printer is attached to the correct one.
	The printer may be configured incorrectly.	Check the printer properties to ensure that all of the print settings are correct.

Problem	Possible Cause	Solution
The printer does not print. (continued)	The printer driver may be incorrectly installed.	Reinstall the printer driver; see page 2.18. Try printing a demo page.
	The printer is malfunctioning.	Check the display message on the control panel to determine if the printer is indicating a system error.
Printer selects print materials from the wrong paper source.	The paper source selection in the printer properties may be incorrect.	For many software applications, the paper source selection is found under the Paper tab within the printer properties. Select the correct paper source. See page 4.7.
Paper does not feed into the printer.	Paper has not been loaded correctly.	Remove paper from the tray and reload it correctly.
	There is too much paper in the paper tray.	Remove excess paper from the tray.
	The paper is too thick.	Use only paper that meets the specifications required by the printer. See page 9.3.
Print job is extremely slow.	The job may be very complex.	Reduce the complexity of the page or try adjusting the print quality settings. The maximum print speed of your printer is 20 PPM (pages per minute) for A4-sized paper or 22 PPM for Letter-sized paper.
	If using Windows 98/Me, the Spooling Setting may be set incorrectly.	From the Start menu, choose Settings and Printers . Right-click the Xerox Phaser 3150 PCL 6 printer icon, choose Properties , click the Details tab, and then choose the Spool Settings button. Select the desired spool setting.
Half the page is blank.	The page layout is too complex.	Simplify the page layout and remove any unnecessary graphics from the document.
	The page orientation setting may be incorrect.	Change the page orientation in your application. See page 4.3.
	The paper size and the paper size settings do not match.	Ensure that the paper size in the printer driver settings matches the paper in the tray.


Problem	Possible Cause	Solution
The paper keeps jamming.	There is too much paper in the paper tray.	Remove excess paper from the tray. If printing on special materials, use the Tray 1.
	An incorrect type of paper is being used.	Use only paper that meets the specifications required by the printer. See page 9.3.
	An incorrect output method is being used.	Special print materials, such as thick paper, should not be printed using the top output tray (face-down). Use the rear output tray (face-up) instead.
	There may be debris inside the printer.	Open the rear cover and remove the debris.
The printer prints, but the text is wrong, garbled, or incomplete.	The printer cable is loose or defective.	Disconnect the printer cable and reconnect. Try a print job that you have already printed successfully. If possible test the cable by attaching it to another computer that is working properly and attempt to print a job. You can also try using a different printer cable and attempt to print a job.
	The wrong printer driver was selected.	Check the application's printer selection menu to ensure that your printer is selected.
	The software application is malfunctioning.	Try printing a job from another application.
	The operating system is malfunctioning.	If printing from Windows (any version), exit to a DOS prompt and verify functionality with the following command: At a C:\ prompt, type Dir LPT1 , and press Enter . (This assumes you are connected to LPT1.) Exit Windows and reboot the computer. Turn the printer off and then back on again.
Pages print, but are blank.	The toner cartridge is defective or out of toner.	Redistribute the toner if necessary. See page 5.3. If necessary, replace the toner cartridge.
	The file may have blank pages.	Check the file to ensure that it does not contain blank pages.
	Some parts, such as the controller or the board, may be defective.	Contact a service representative.

Problem	Possible Cause	Solution
The illustrations print incorrectly in Adobe Illustrator.	The setting in the software application is wrong.	Print the document by selecting Download as Bit Image in the TrueType Options box of the Image Options properties tab.

Clearing Paper Jams

Occasionally, paper can jam during a print job. Some causes include:

- The tray is loaded improperly or overfilled.
- The tray has been pulled out during a print job.
- The front cover has been opened during a print job.
- Paper that does not meet paper specifications has been used. See "Paper Specifications" on page 9.3.
- Paper that is outside of the supported size range has been used. See "Paper Specifications" on page 9.3.

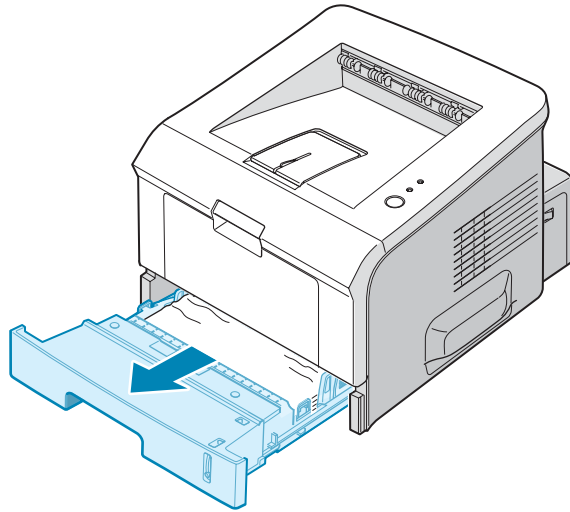
If a paper jam occurs, the  LED on the control panel lights red. Find and remove the jammed paper. If you can't see it, look inside the printer.



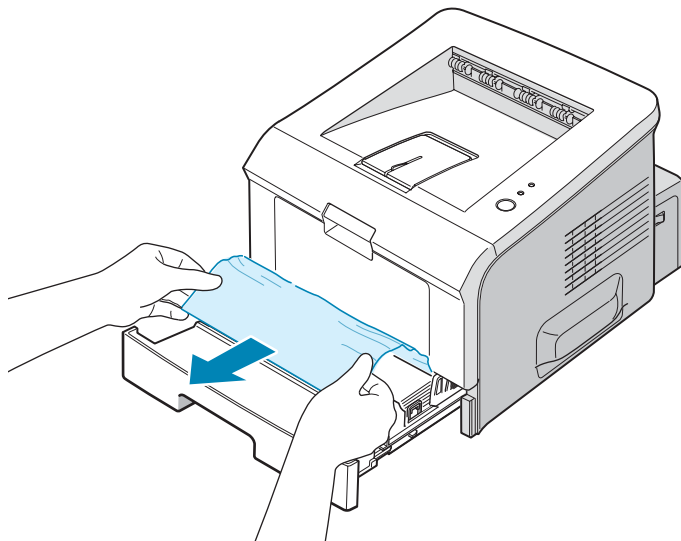
NOTE: Do not use tweezers or metal objects with sharp ends when you remove paper jams. If you do this, it may damage the metal parts inside of your printer and cause a short circuit.

In the Paper Feed Area

- 1 Slide out Tray2 to expose the jammed paper.

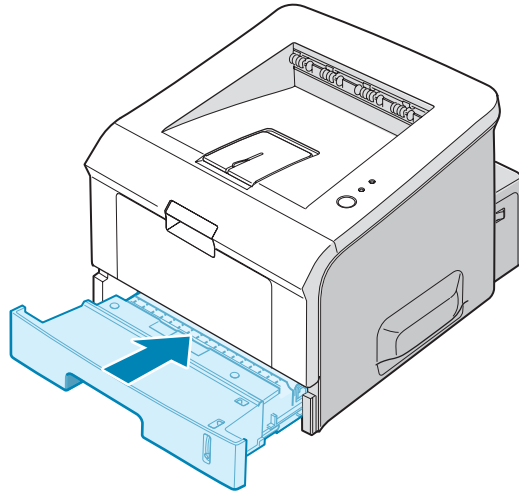


- 2 Remove any misfed paper by pulling it out by the visible edge. Make sure that all of the paper is properly aligned in the tray.



NOTE: If the jammed paper is not visible or if there is resistance when you pull the paper, remove the tray from the printer and carefully pull the jammed paper free from the printer.

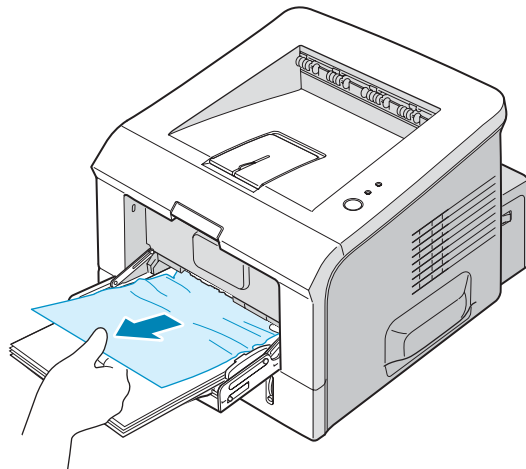
- 3 Slide the tray back into the printer.



- 4 Open and close the front cover to resume printing.

In the Tray 1

- 1 Open the Tray 1.
- 2 Carefully remove the jammed paper from the tray.



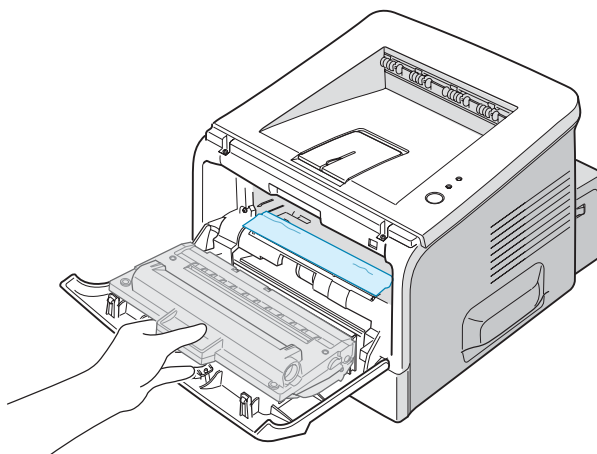
- 3 Open and close the front cover. Printing can now be resumed.

Around the Toner Cartridge

- 1 Open and close the front cover, and the jammed paper automatically exits the printer.

If not, continue to Step 2.

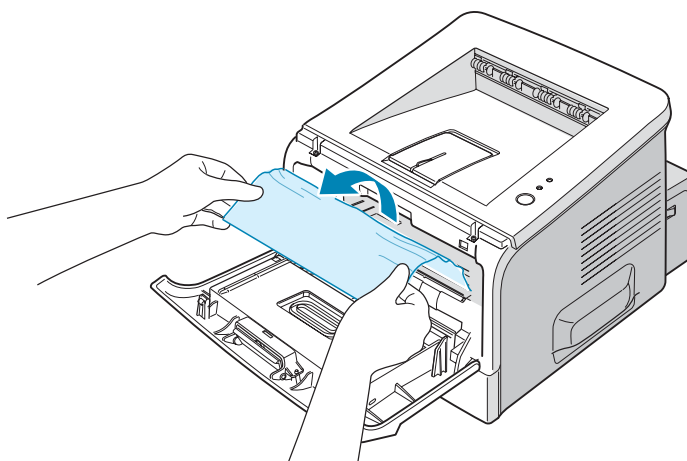
- 2 Open the front cover and remove the toner cartridge.



CAUTION: To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Place a piece of paper over the top of the toner cartridge to shield it while it is out of the printer and keep it in a flat and clean place.

6

- 3 Gently pull the jammed paper toward you to remove it from the printer.

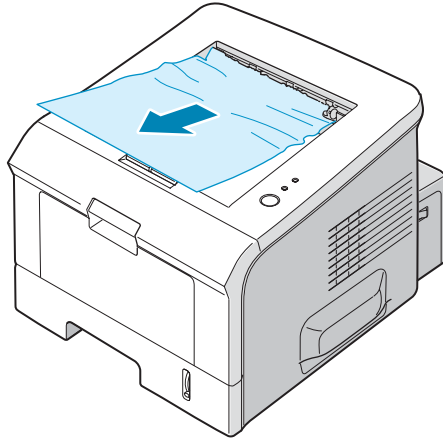


If the jammed paper is not visible or there is resistance when you pull the paper, go to "In the Paper Exit Area" on page 6.10.

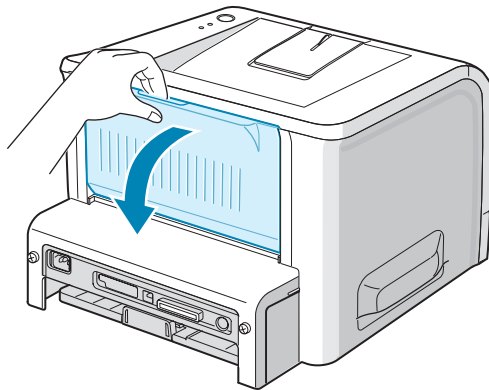
- 4 Make sure that there is no other paper in the printer.
- 5 Reinstall the toner cartridge, and then close the front cover. Printing can now be resumed.

In the Paper Exit Area

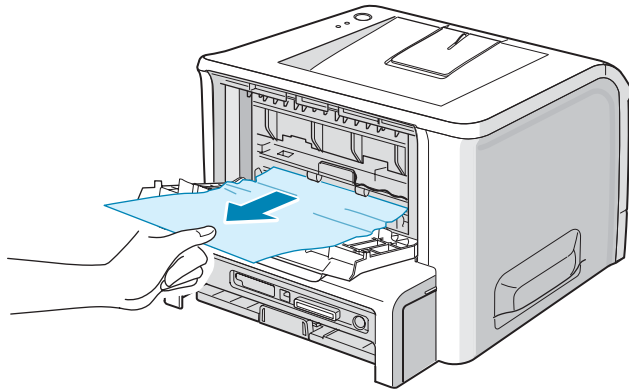
- 1 If a long portion of the paper is visible, pull it straight out. If not, continue to Step 2.



- 2 Open the rear output tray.



- 3 Loosen the paper if it is caught in the feed rollers. Then gently pull the paper out.

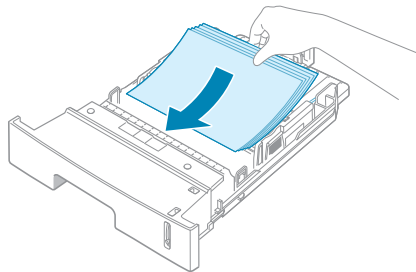


- 4 Close the rear output tray.
- 5 Open and close the front cover. Printing can now be resumed.

Tips for Avoiding Paper Jams When Printing on the A5-sized Paper

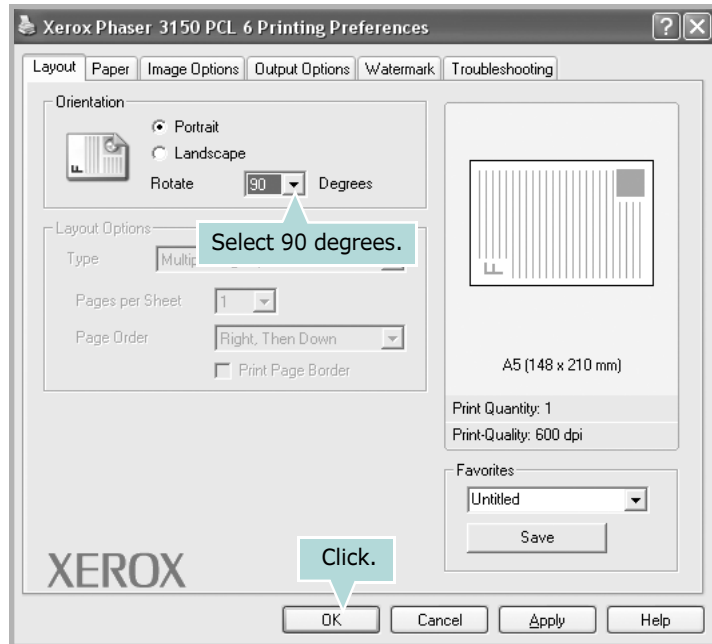
If paper jams frequently occur when you print on the A5-sized paper:

- 1 Open the input tray and load paper into the tray as shown below.



- 2 Open the Xerox Phaser 3150 PCL 6 Printing Properties window, set the paper size to **A5 (148x210 mm)** from the **Paper** tab.

- 3** From the **Orientation** option of the **Layout** tab, set the **Rotate** option to **90°**.



- 4** Click **OK** to start printing.

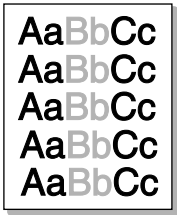
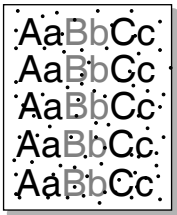
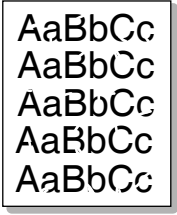
Tips for Avoiding Paper Jams

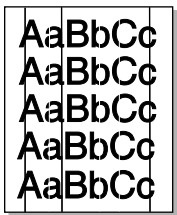
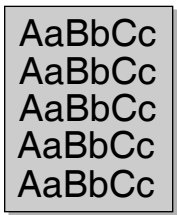
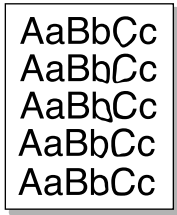
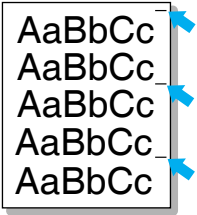
By selecting the correct paper types, most paper jams can be avoided. If a paper jam occurs, follow the steps outlined in "Clearing Paper Jams" on page 6.6.

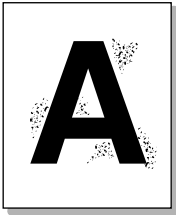
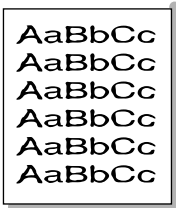
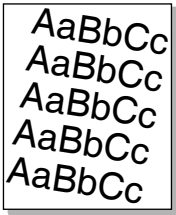
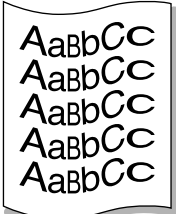
- Follow the procedures in "Loading Paper" on page 2.7. Ensure that the adjustable guides are positioned correctly.
- Do not overload the paper tray. Ensure that the paper is below the paper limit mark on the inside wall of the tray.
- Do not remove the paper from the tray while printing.
- Flex, fan, and straighten the paper before loading.
- Do not use creased, damp, or highly curled paper.
- Do not mix paper types in the tray.
- Use only recommended print materials. See "Paper Specifications" on page 9.3.
- Ensure that the recommended print side is facing down when loading paper in the tray and facing up in the Tray 1.

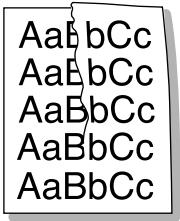
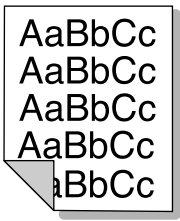
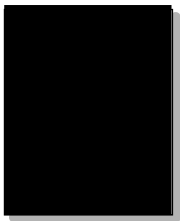
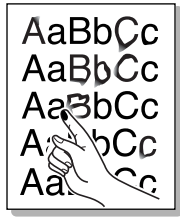
Solving Print Quality Problems

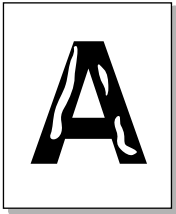
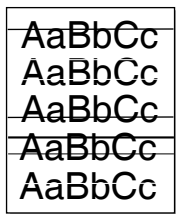
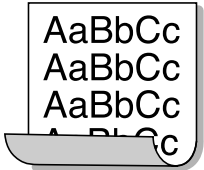
If the inside of the printer is dirty, or paper is improperly loaded, print quality may be reduced. See the table below to troubleshoot the problem.

Problem	Solution
Light or faded print 	<p>If a vertical white streak or faded area appears on the page:</p> <ul style="list-style-type: none"> • The toner supply is low. You may be able to temporarily extend the toner cartridge life. See "Redistributing Toner" on page 5.3. If this does not improve the print quality, install a new toner cartridge. • The paper may not meet paper specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page 9.3. • If the entire page is light, the print resolution setting is too light. Adjust the print resolution in the printer properties. See "Setting Image Options Preferences" on page 4.16. • A combination of faded or smeared defects may indicate that the toner cartridge needs cleaning. See "Cleaning the Inside" on page 5.5. • The surface of the LSU may be dirty. Clean the LSU. See "Cleaning the Inside" on page 5.5.
Toner specs 	<ul style="list-style-type: none"> • The paper may not meet specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page 9.3. • The transfer roller may be dirty. See "Cleaning the Inside" on page 5.5. • The paper path may need cleaning. See "Cleaning the Inside" on page 5.5.
Dropouts 	<p>If faded areas, generally rounded, occur randomly on the page:</p> <ul style="list-style-type: none"> • A single sheet of paper may be defective. Try reprinting the job. • The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different brand of paper. See "Paper Specifications" on page 9.3. • The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper. • The toner cartridge may be defective. See "Vertical repetitive defects" on the next page. • If these steps do not correct the problems, contact a service representative.

Problem	Solution
<p>Vertical lines</p> 	<p>If black vertical streaks appear on the page:</p> <ul style="list-style-type: none"> • The drum inside the toner cartridge has probably been scratched. Install a new toner cartridge. <p>If White vertical streaks appear on the page:</p> <ul style="list-style-type: none"> • The surface of the LSU part inside the machine may be dirty. Clean the LSU (see “Cleaning the Inside” on page 5.5.)
<p>Gray background</p> 	<p>If the amount of background shading becomes unacceptable, the procedures below may fix the problem.</p> <ul style="list-style-type: none"> • Change to a lighter weight paper. See “Paper Specifications” on page 9.3. • Check the printer’s environment; very dry (low humidity) or high humidity (higher than 80% RH) conditions can increase the amount of background shading. • Remove the old toner cartridge and install a new one. See “Installing the Toner Cartridge” on page 2.4.
<p>Toner smear</p> 	<ul style="list-style-type: none"> • Clean the inside of the printer. See “Cleaning the Inside” on page 5.5. • Check the paper type and quality. See “Paper Specifications” on page 9.3. • Remove the toner cartridge and install a new one. See “Installing the Toner Cartridge” on page 2.4.
<p>Vertical repetitive defects</p> 	<p>If marks repeatedly appear on the printed side of the page at even intervals:</p> <ul style="list-style-type: none"> • The toner cartridge may be damaged. If a repetitive mark occurs on the page, print a cleaning sheet several times to clean the cartridge; see page 5.7. After the printout, if you still have the same problems, install a new toner cartridge. See “Installing the Toner Cartridge” on page 2.4. • Parts of the printer may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. • The fusing assembly may be damaged. Contact a service representative.

Problem	Solution
<p>Background scatter</p> 	<p>Background scatter results from bits of toner distributed on the printed page.</p> <ul style="list-style-type: none"> • The paper may be too damp. Try printing with a different batch of paper. Do not open packages of paper until necessary so that the paper does not absorb too much moisture. • If background scatter occurs on an envelope, change the printing layout to avoid printing over areas that have overlapping seams on the reverse side. Printing on seams can cause problems. • If background scatter covers the entire surface area of a printed page, adjust the print resolution through your software application or the printer properties.
<p>Misformed characters</p> 	<ul style="list-style-type: none"> • If characters are improperly formed and producing hollow images, the paper stock may be too slick. Try a different paper. See "Paper Specifications" on page 9.3. • If characters are improperly formed and producing a wavy effect, the scanner unit may need service. Verify that it also occurs on a demo page (see page 2.14). For service, contact a service representative.
<p>Page skew</p> 	<ul style="list-style-type: none"> • Check the paper type and quality. See "Paper Specifications" on page 9.3. • Ensure that the paper or other material is loaded correctly and the guides are not too tight or too loose against the paper stack.
<p>Curl or wave</p> 	<ul style="list-style-type: none"> • Ensure that the paper is loaded properly. • Check the paper type and quality. Both high temperature and humidity can cause paper curl. See "Paper Specifications" on page 9.3. • Turn over the stack of paper in the tray. Also try rotating the paper 180° in the tray. • Try printing to the rear output slot.

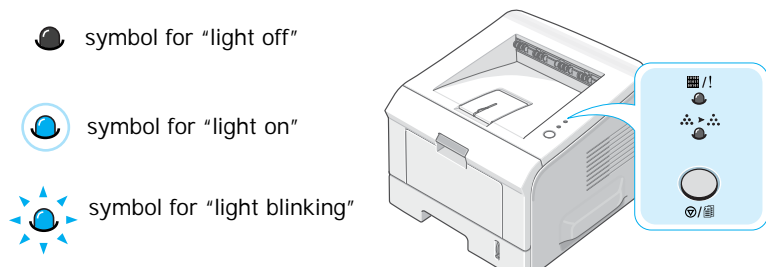
Problem	Solution
<p>Wrinkles or creases</p> 	<ul style="list-style-type: none"> • Ensure that the paper is loaded properly. • Check the paper type and quality. See "Paper Specifications" on page 9.3. • Open the rear cover and try printing to the rear output tray (face-up). • Turn over the stack of paper in the paper tray. Also try rotating the paper 180° in the tray.
<p>Back of printouts are dirty</p> 	<ul style="list-style-type: none"> • The transfer roller may be dirty. "Cleaning the Inside" on page 5.5. • Check for leaking toner. Clean the inside of the printer.
<p>Black pages</p> 	<ul style="list-style-type: none"> • The toner cartridge may not be installed properly. Remove the cartridge and reinsert. • The toner cartridge may be defective and need replacing. Install a new toner cartridge. • The printer may require repair. Contact a service representative.
<p>Loose toner</p> 	<ul style="list-style-type: none"> • Clean the inside of the printer. • Check the paper type and quality. See "Paper Specifications" on page 9.3. • Install a new toner cartridge. See "Installing the Toner Cartridge" on page 2.4. • If the problem persists, the printer may require repair. Contact a service representative.

Problem	Solution
<p>Character Voids</p> 	<p>Character voids are white areas within the parts of characters that should be solid black:</p> <ul style="list-style-type: none"> • If you are using transparencies, try another type of transparency. Because of the composition of the transparency, some character voids are normal. • You may be printing on the wrong side of the paper. Remove the paper and turn it around. • The paper may not meet paper specifications. See "Paper Specifications" on page 9.3.
<p>Horizontal stripes</p> 	<p>If horizontally aligned black streaks or smears appear:</p> <ul style="list-style-type: none"> • The toner cartridge may be installed improperly. Remove the cartridge and reinsert. • The toner cartridge may be defective. Install a new toner cartridge. See "Installing the Toner Cartridge" on page 2.4. • If the problem persists, the printer may require repair. Contact a service representative.
<p>Curl</p> 	<p>If the printed paper is curled or paper does not feed into the printer:</p> <ul style="list-style-type: none"> • Turn over the stack of paper in the input tray. Also try rotating the paper 180° in the input tray. • Try printing to the rear output slot.







Troubleshooting Error Messages

When the printer experiences an error, the control panel will indicate an error message with the indicator lights. Find the light pattern below that matches the printer light pattern and follow the solutions to clear the error.

LED status legend



LED pattern	Possible Problems and Solutions
	When both LEDs blink simultaneously please power off and on, and if the problem still persists, call customer support.
 On Line/Error LED lights red	<ul style="list-style-type: none">• A paper jam has occurred. To solve the problem, see "Clearing Paper Jams" on page 6.6.• Paper Tray is empty. Load the paper in the Tray.• The front cover is open. Close the front cover.• The toner cartridge is not installed. Install the toner cartridge. See "Installing the Toner Cartridge" on page 2.4.

LED pattern	Possible Problems and Solutions
	<ul style="list-style-type: none"> You pressed the  button while the printer was receiving data. In Manual Feed mode, there is no paper in the Tray 1. Load paper into the Tray 1. If the printer is receiving data, the  LED slowly blinks green. If the printer is printing the received data, the  LED blinks green fast. If the installed toner cartridge is empty, the  LED blinks orange. Replace the toner cartridge. To replace the toner cartridge, see “Installing the Toner Cartridge” on page 2.4. If you have installed a toner cartridge that is not designed for the printer, the  LED blinks orange and red in turn. Install a correct toner cartridge.

Common Windows Problems

6

Problem	Possible Cause and Solution
“File in Use” message appears during installation.	Exit all software applications. Remove all software from the StartUp Group, then restart Windows. Reinstall the printer driver.
“Error Writing to LPTx” message appears.	<ul style="list-style-type: none"> Ensure that the cables are connected correctly, and the printer is on. If bi-directional communication is not turned on in the driver, it will also cause this message.
“General Protection Fault”, “Exception OE”, “Spool32”, or “Illegal Operation” messages appear.	Close all other applications, reboot Windows, and try printing again.



NOTE: Refer to the Microsoft Windows 98/Me/NT 4.0/2000/XP User’s Guide that came with your PC for further information on Windows error messages.

Common Linux Problems

Problem	Possible Cause and Solution
I can't change settings in the configuration tool.	You need to have administrator privileges to be able to affect global settings.
I am using the KDE desktop but the configuration tool and LLPR won't start.	Maybe you do not have the GTK libraries installed. These usually come with most Linux distributions, but you may have to install them manually. Refer to your distribution's installation manual for more details about installing additional packages.
I just installed this package but can't find entries in the KDE/Gnome menus.	Some versions of the KDE or GNOME desktop environments may require that you restart your session for the changes to take effect.
I get a "Some options are not selected" error message while editing the printer settings.	Some printers have conflicting settings, meaning that some settings for two options can't be selected at the same time. When you change a setting and the Printer Package detects such a conflict, the conflicting option is changed to a "No Choice" value, and you have to choose an option that does not conflict before being able to submit the changes.
I can't make a printer the system default.	<p>In some conditions, it may not be possible to change the default queue. This happens with some variants of LPRng, especially on recent RedHat systems that use the "printconf" database of queues.</p> <p>When using printconf, the /etc/printcap file is automatically refreshed from the database of printers managed by the system (usually through the "printtool" command), and the queues in /etc/printcap.local are appended to the resulting file. Since the default queue in LPRng is defined as the first queue in /etc/printcap, it is not possible for the Linux Printer Package to change the default when some queues have otherwise been defined using printtool.</p> <p>LPD systems identify the default queue as the one named "lp". Thus, if there is already a queue by this name, and if it doesn't have any alias, you won't be able to change the default. To work around this, you can either delete the queue or rename it by manually editing the /etc/printcap file.</p>
The N-up setting does not work correctly for some of my documents.	The N-up feature is achieved through post-processing of the PostScript data that is being sent to the printing system. However, such post-processing can only be adequately achieved if the PostScript data conforms to the Adobe Document Structuting Conventions. Problems may arise when using N-up and other features relying on post-processing if the document being printed isn't compliant.

Problem	Possible Cause and Solution
I am using BSD lpr (Slackware, Debian, older distributions) and some options chosen in LLPR don't seem to take effect.	Legacy BSD lpr systems have a hard limitation on the length of the option string that can be passed to the printing system. As such, if you selected a number of different options, the limitation length of the options may be exceeded and some of your choices won't be passed to the programmes responsible for implementing them. Try to select less options that deviate from the defaults, to save on memory usage.
I am trying to print a document in Landscape mode, but it prints rotated and cropped.	Most Unix applications that offer a Landscape orientation option in their printing options will generate correct PostScript code that should be printed as is. In that case, you need to make sure that you leave the LLPR option to its default Portrait setting, to avoid unwanted rotations of the page that would result in a cropped output.
Some pages come out all white (nothing is printed), and I am using CUPS.	If the data being sent is in Encapsulated PostScript (EPS) format, some earlier versions of CUPS (1.1.10 and before) have a bug preventing them from being processed correctly. When going through LLPR to print, the Printer Package will work around this issue by converting the data to regular PostScript. However, if your application bypasses LLPR and feeds EPS data to CUPS, the document may not print correctly.
I can't print to a SMB (Windows) printer.	To be able to configure and use SMB-shared printers (such as printers shared on a Windows machine), you need to have a correct installation of the SAMBA package that enables that feature. The "smbclient" command should be available and usable on your system.
My application seems to be frozen while LLPR is running.	Most Unix applications will expect a command like the regular "lpr" command to be non-interactive and thus return immediately. Since LLPR is waiting for user input before passing the job on to the print spooler, very often the application will wait for the process to return, and thus will appear to be frozen (its windows won't refresh). This is normal and the application should resume functioning correctly after the user exits LLPR.
How do I specify the IP address of my SMB server?	It can be specified in the "Add Printer" dialogue of the configuration tool, if you don't use the CUPS printing system. Unfortunately, CUPS currently doesn't allow one to specify the IP address of SMB printers, so you will have to be able to browse the resource with Samba in order to be able to print.
Some documents come out as white pages when printing.	Some versions of CUPS, especially those shipped with Mandrake Linux before the 8.1 release, have some known bugs when processing the PostScript output from some applications. Try upgrading to the latest version of CUPS (at least 1.1.14). Some RPM packages for most popular distributions are provided as a convenience with this Linux Printing Package.

Problem	Possible Cause and Solution
I have CUPS and some options (such as N-up) seem to be always enabled even though I don't pick them in LLPR.	There may be some local options defined in your <code>~/.lpoptions</code> file, which is manipulated by the <code>lpoptions</code> command. These options will always be used if not overridden by LLPR settings. To get rid of all options for a printer, run the following command, replacing "printer" with the name of the queue: <code>lpoptions -x printer</code>
I configured a printer to print to a file, but I get "Permission denied" errors.	Most printing systems will not run as the super-user but as a special user (usually "lp"). Therefore, make sure that the file you have chosen to print to is accessible to the user owning the spooler daemon.
On my PCL printer, I sometimes get error messages printing instead of my document.	Unfortunately, some Unix applications may generate non-compliant PostScript output that may not be supported by Ghostscript, or even the printer itself in PostScript mode. You can try to capture the output to a file and view the results with Ghostscript (<code>gv</code> or <code>ghostview</code> will allow you to do so interactively) and see if you get error messages. However, since the application is probably at fault, contact your software vendor to inform them of the issue.



7

USING YOUR PRINTER IN LINUX

You can use your printer in a Linux environment.

This chapter includes:

- **Installing the Printer Driver**
- **Using the Configuration Tool**
- **Changing LLPR Properties**

Installing the Printer Driver

System Requirements

Supported OS

- Redhat 6.2/7.0/7.1 and above
- Linux Mandrake 7.1/8.0 and above
- SuSE 6.4/7.0/7.1 and above
- Debian 2.2 and above
- Caldera OpenLinux 2.3/2.4 and above
- Turbo Linux 6.0 and above
- Slackware 7.0/7.1 and above

Recommended Requirements

- Pentium IV 1 GHz or higher
- RAM 256 MB or higher
- HDD(Hard Disk Drive) 1 GB or higher

Softwares

- Glibc 2.1 or higher
- GTK+ 1.2 or higher
- GhostScript

Installing the Printer Driver


- 1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.
- 2 When the Administrator Login window appears, type in "**root**" in the Login field and enter the system password.



NOTE: You must log in as a super user (root) to install the printer software. If you are not the super user, ask your system administrator.

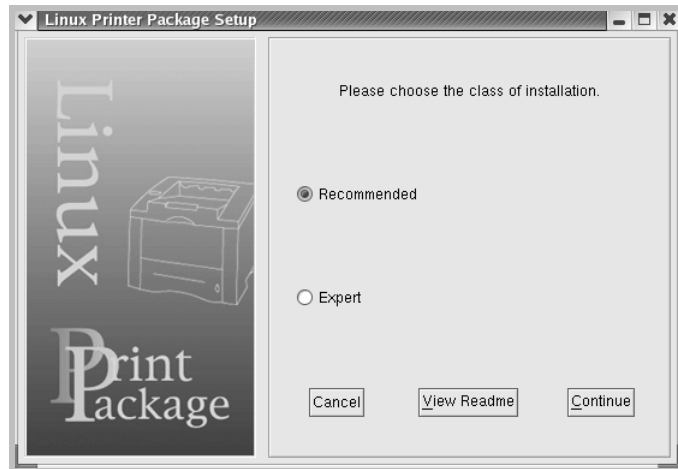
- 3 Insert the printer software CD-ROM. The CD-ROM automatically runs.



NOTE: If the CD-ROM does not automatically run, click the  icon at the bottom of the window. When the Terminal screen appears, type in:

```
[root@local /root]# cd /mnt/cdrom (the CD-ROM directory)
[root@local cdrom]# ./setup.sh
```

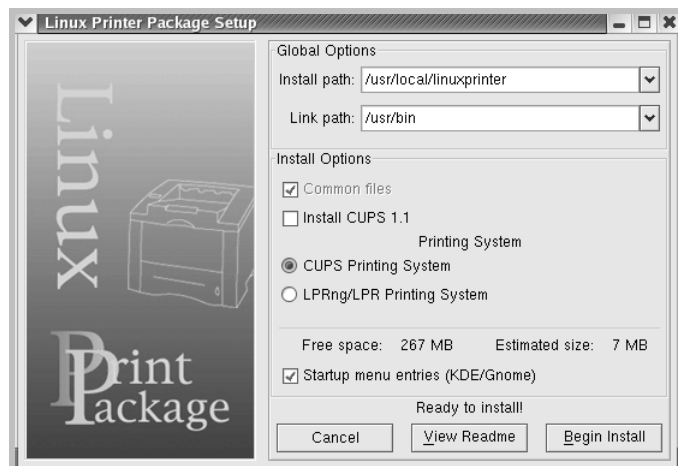
- 4 Select the installation type, either **Recommended** or **Expert**, and then click **Continue**.



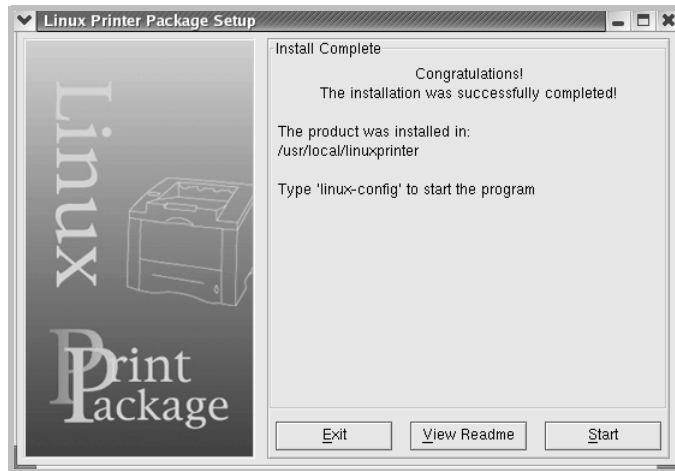
Recommended is fully automated and no interaction is required. **Expert** installation allows you to select the installation path or printing system.

- 5 If you selected **Recommended**, go to Step 6.

For **Expert**, select an option and then click **Begin Install**.



- 6 The printer driver installation begins. When the installation is completed, click **Start**.

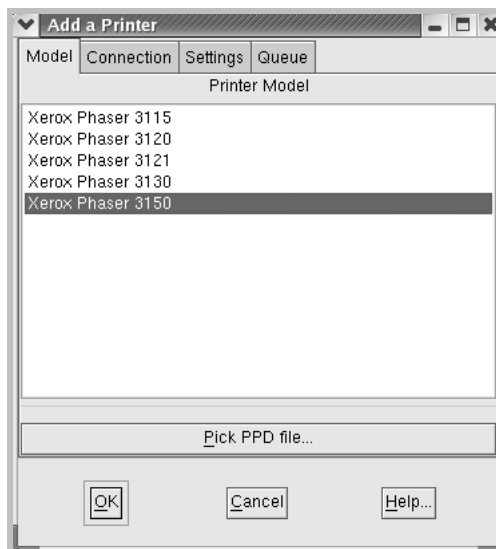


- 7 The Linux Printer Configuration window opens. Click the **Add Printer** icon on the tool bar at the top of the window.

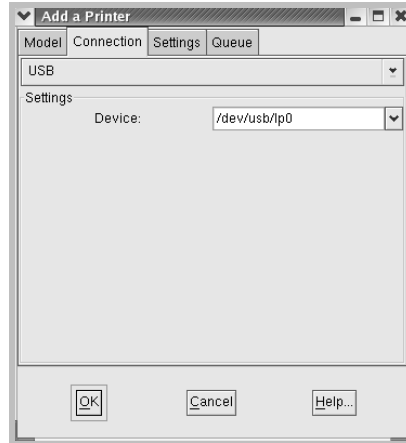


NOTE: Depending on the printing system in use, the Administrator Login window may appear. Type in "**root**" in the Login field and enter the system password.

- 8 You see the printers currently added to your system. Select the printer you want to use. The function tabs available for the selected printer appear at the top of the Add a Printer window.



- 9 Click the **Connection** tab and ensure that the printer port is set properly. If not, change the device setting.



- 10 You can use the **Settings** tab and the **Queue** tab to view the printer's current settings. If necessary, you can change the settings.



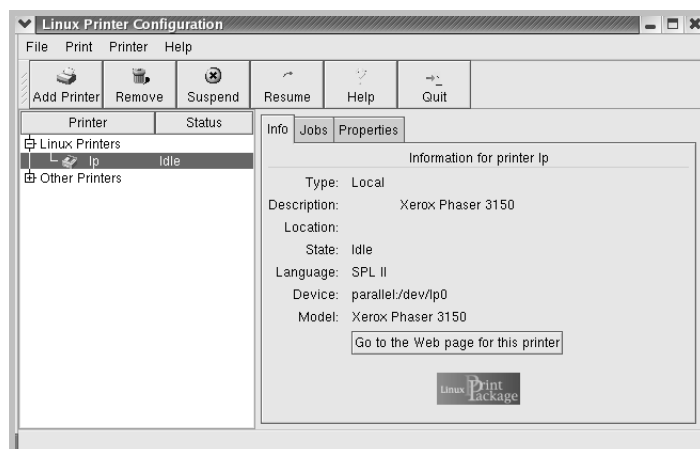
NOTE: The options may differ depending on the printer in use. The Description and the Location field in the Queue screen may not appear depending on the printing system in use.

- 11 To exit, click **OK**.

- 12 When the window prompts that the new printer is successfully configured, click **OK**.

- 13 The Linux Printer Configuration window reappears. You can view the information about your printer from the **Info** tab. If necessary, you can change the printer's configuration. For details about changing the printer's configuration, see "Using the Configuration Tool" on page 7.8.

7



Changing the Printer Connection Method

If you change the printer connection method from USB to parallel or vice versa while in use, you must re-configure your Linux printer by adding the printer to your system. Take the following steps:

- 1 Make sure that you connect the printer to your computer. Turn both the computer and the printer on.
- 2 When the Administrator Login window appears, type in "**root**" in the Login field and enter the system password.



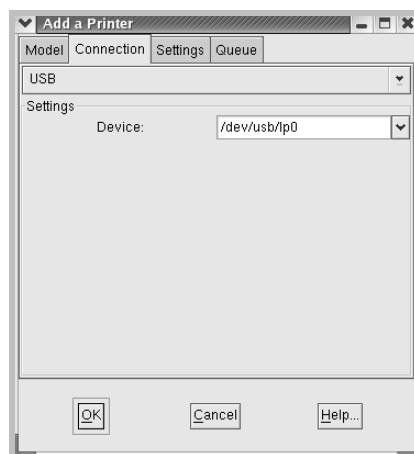
NOTE: You must log in as a super user (root) to install a new printer to the printing system. If you are not the super user, ask your system administrator.

- 3 From the Startup Menu icon at the bottom of the desktop, select **Linux Printer** and then **Configuration Tool**.

You can also access the Linux Printer Configuration window by typing "**linux-config**" in the Terminal screen.

- 4 When the Linux Printer Configuration window appears, click the **Add Printer** icon on the tool bar at the top of the window.
- 5 Click the **Connection** tab at the top of the Add a Printer window.

Ensure that the printer port is set properly. If not, change the device setting.



- 6 Click **OK**.

Uninstalling the Printer Driver

- 1 From the Startup Menu icon at the bottom of the desktop, select **Other** and then **Configuration Tool**.



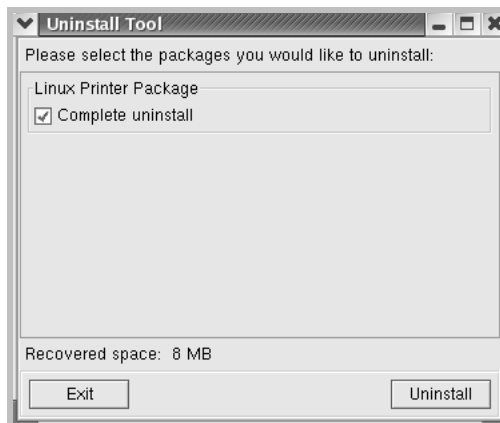
You can also access the Linux Printer Configuration window by typing "**linux-config**" in the Terminal screen.

- 2 In the Linux Printer Configuration window, select the **Uninstall** command from the **File** menu.
- 3 The Administrator Login window appears. Type in "**root**" in the Login field and enter the system password. Click **Proceed**.



NOTE: You must log in as a super user (root) to uninstall the printer software. If you are not the super user, ask your system administrator.

- 4 A message window appears asking you to confirm the uninstallation. Click **Yes**.
- 5 Select **Complete uninstall** and then click **Uninstall**.



- 6 Click **OK** to begin uninstallation.
- 7 When the uninstallation is complete, click **Finished**.

Using the Configuration Tool

The configuration tool accesses administrative tasks, including adding and removing a new printer, and changing their global settings. Regular users can also run it to easily inspect job queues, examine the printer properties and change their local preferences.

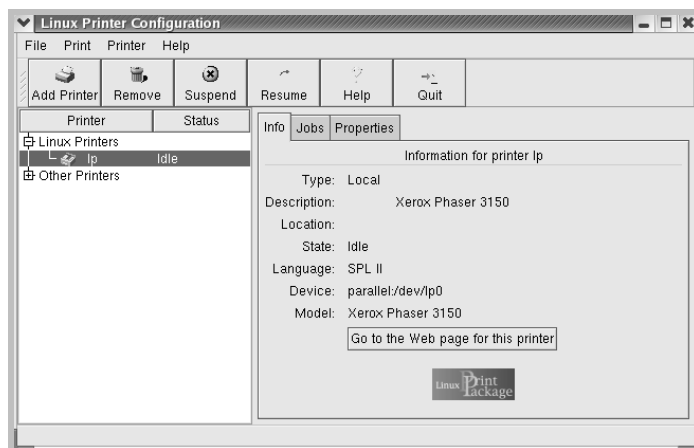
To access the Configuration Tool:

- 1 From the Startup Menu icon at the bottom of the screen, select **Linux Printer** and then **Configuration Tool**. The Linux Printer Configuration window appears.

You can also open this window from the Terminal screen by typing in "**linux-config**."

- 2 The Linux Printer Configuration window shows a list of installed printers in the left pane. The right pane shows a number of tabs that display information regarding the currently selected printer.

Select your printer, if not currently selected.

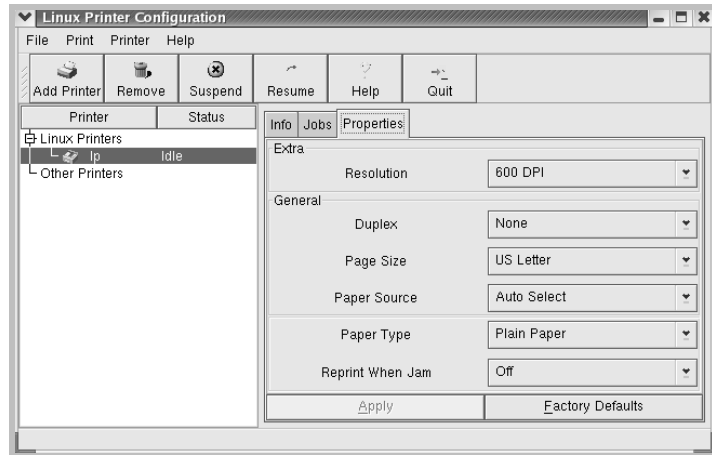


3 The **Info** tab shows general information about the printer.

If you are an Internet user, you can click **Go to the Web page for this printer** to access the web page.

Click the **Jobs** tab to inspect and manage the job queue for the selected printer. You can suspend, resume, or delete a specific job(s) in the queue. If you drag a specific job(s), you can drop it into the print queue of another printer.

The **Properties** tab allows you to change the default printer settings.



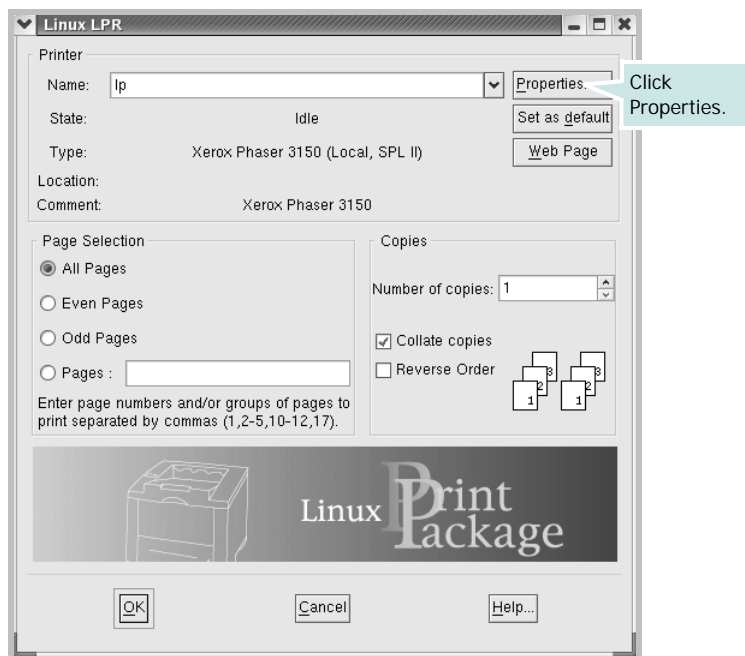
NOTE: Regular users are able to override the system-wide default settings defined by the administrator. When a regular user clicks **Apply**, these custom settings are saved in the user's profile and may be later used with LLPR. If the administrator is running the configuration tool, then the settings are saved as the new global defaults.

Changing LLPR Properties

You can fine tune the printer's properties by opening the LLPR Properties window.

To open the LLPR Properties window:

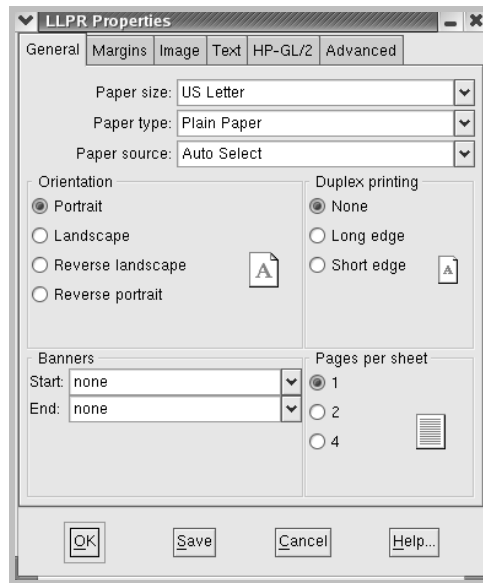
- 1 From the application you are using, select the **Print** command.
- 2 When the Linux LPR window opens, click **Properties**.



You can also open the LLPR window:

- Click the Startup Menu icon at the bottom of the screen and select **Linux Printer** and then **Linux LPR**.
- If the Linux Printer Configuration window is currently open, select **Test Print** from the **Print** menu.

3 The LLPR Properties window opens.



The following six tabs are at the top of the window:

- **General** - allows you to change the paper size, the paper type, the paper source, the orientation of the documents; enables the duplex feature, adds start and end banners, and changes the number of pages per sheet.
- **Margins** - allows you to specify the page margins. The graphics on the right shows the current settings. These margins do not apply when printing regular PostScript data.
- **Image** - allows you to set image options that are used when printing image files, i.e. when a non-PostScript document is passed to LLPR on the command line. Color settings will also take effect for postscript documents.
- **Text** - allows you to select the density of the text and turn the syntax coloring on or off.
- **HP-GL/2** - allows you to set default options to print documents in the HP-GL/2 format, which is used by some plotters.
- **Advanced** - allows you to override the default settings for the printer.

If you click the **Save** button at the bottom of the window, the options are kept between LLPR sessions.

Use the **Help** button to view details about the options in the window.

- ### 4
- To apply the options, click **OK** in the **LLPR Properties** window. You are returned to the **Linux LPR** window. To start printing, click **OK**.

MEMO



7.12 USING YOUR PRINTER IN LINUX

8

PRINTING FROM DOS APPLICATIONS

While your printer is primarily a Windows printer, you can also print from a DOS software Programme using the Remote Control Panel utility provided in the supplied software CD-ROM.

This chapter includes:

- **About the Remote Control Panel**
- **Installing the Remote Control Panel**
- **Selecting Print Settings**

About the Remote Control Panel

DOS users have access to many printer features through specific DOS printer drivers; however, many software manufacturers do not develop printer drivers for their software programmes. Your printer provides the software control panel for improved printer control when DOS printer drivers are not available or when certain print settings are not available through DOS software programmes.



NOTE: The printer's Remote Control Panel is not a printer driver. It should be used to set print settings that are not available through DOS software programmes. Printer drivers are supplied by the manufacturers of your DOS software programmes. If your DOS software Programme does not include a printer driver for your printer, contact the manufacturer of the software or use one of the alternate printer drivers.

Installing the Remote Control Panel

- 1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM driver does not automatically run:

Select **Run** from the **Start** menu, type **X:\setup.exe** in the Open box (Where **X** is the drive letter for the CD-ROM drive) and click **OK**.

- 2 Select the language of the software you want to install.
- 3 Click **Remote Control Panel**.
- 4 Follow the instructions on the screen to complete the installation.



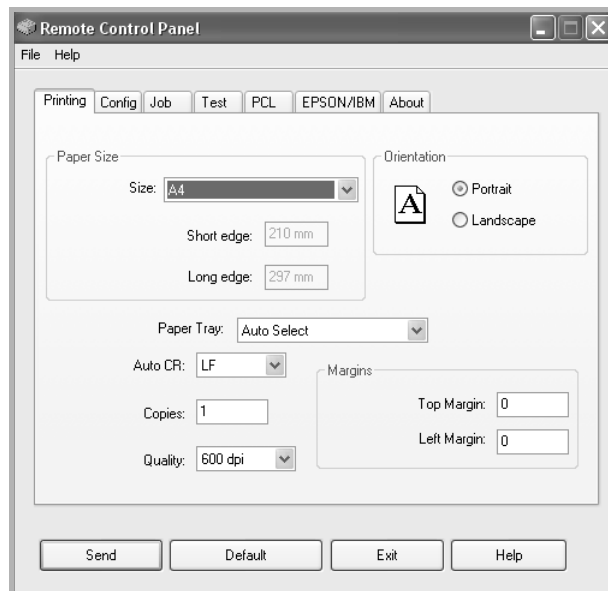
NOTE: To uninstall the Remote Control Panel program, see page 2.18.

Selecting Print Settings

You can use this Remote Control Panel to select print settings that may not be available on some DOS Programmes. Typically, duplicate print settings that are selected from a DOS software programme override the ones that are selected in the Remote Control Panel.

Starting the Remote Control Panel

- 1 From the **Start** menu, select **Programs**.
- 2 Select **Xerox Phaser 3150** and then **Remote Control Panel**.
- 3 The Remote Control Panel window allows you to access all the information you need when using your printer. If necessary, click the other tabs on the top of the window to access other features.



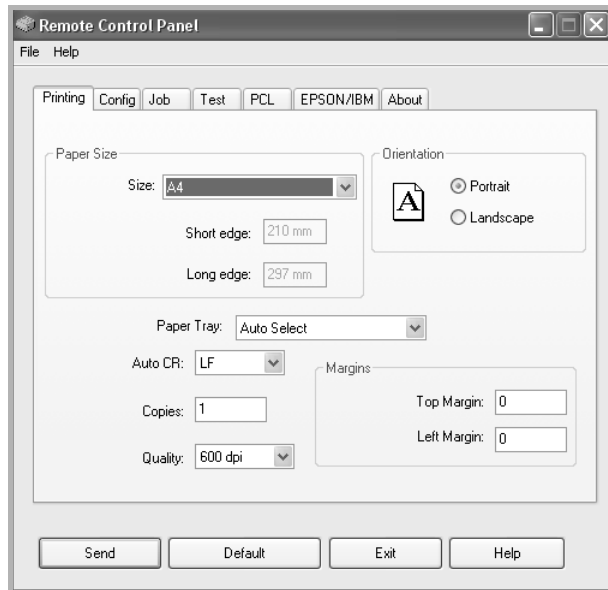
- 4 When you finish changing the settings, click **Send**.

Using the Remote Control Panel Tabs

The Remote Control Panel allows you to access the following features:

Printing Tab

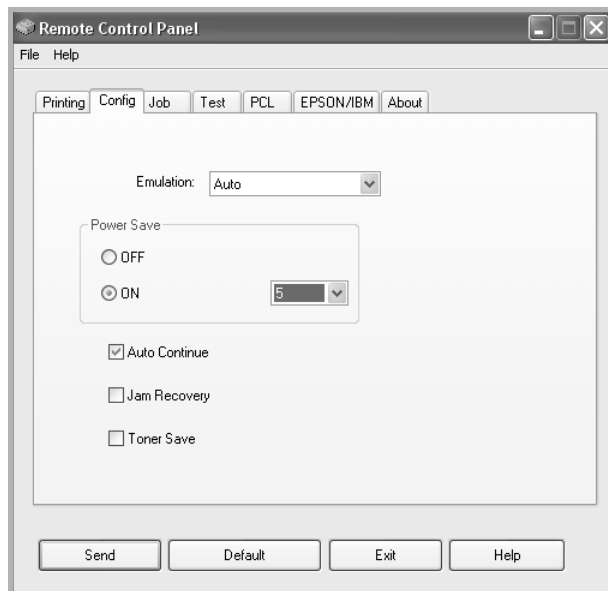
In this tab, you can configure general settings for printing.



- **Paper Size** sets the paper size.
- **Orientation** determines how the output is printed on the page.
- **Paper Tray** sets the default paper source.
- **Auto CR** sets how the printer performs a carriage return.
- **Copies** sets the number of copies printed for each page.
- **Quality** specifies the print quality.
- **Margins** sets the top and left margin of the print material.

Config Tab

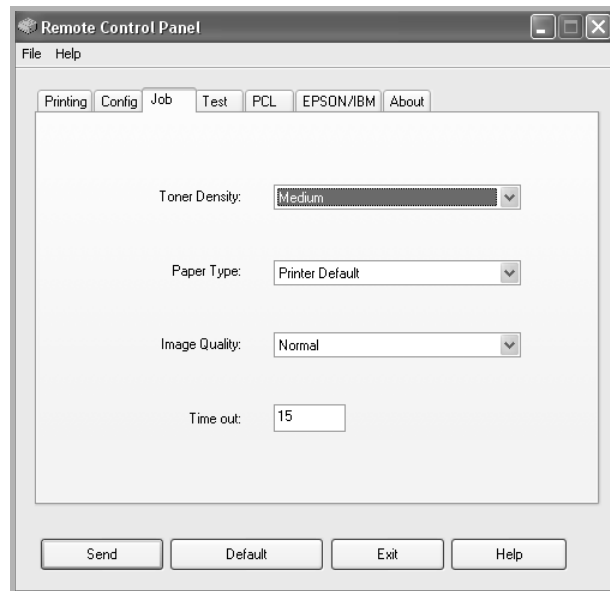
You can configure various printer features.



- **Emulation** selects the emulation for printing a document. The factory default is **Auto**.
- **Power Save** determines the length of time the printer waits after a job is printed before it goes to a reduced power state. If the printer is used frequently, select **OFF** which keeps the printer ready to print with the minimum warm-up time. This uses more power to keep the printer warm and ready to print.
- **Auto Continue** determines what action the printer should take if the Tray 1 is empty when a manual feed print job is sent to the printer. If it is checked, the printer will pick up the paper from the tray 2 after fifteen seconds. Otherwise, the printer will wait for you to load paper in the Tray 1.
- **Jam Recovery** determines what action the printer should take when a paper jam occurs. If it is unchecked, the printer does not reprint a page that has jammed. If it is checked, the printer keeps the image in memory for a printed page until the printer signals that the page has successfully printed. The printer reprints all jammed pages.
- **Toner save** determines the toner quantity the printer should use when printing. If it is checked, the printer conserves toner when printing. The default value is unchecked, which provides 100% usage.

Job Tab

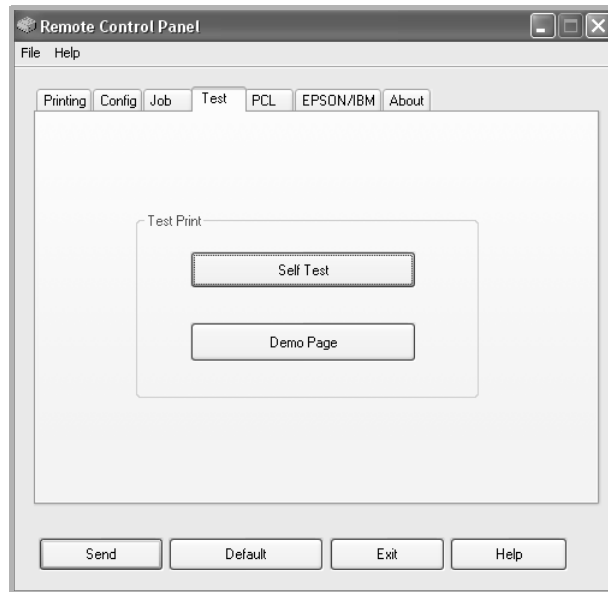
You can set options for improving the quality of your print job.



- **Toner Density** determines the toner density of the page. The default value is **Medium**.
- **Paper Type** provides the printer with information about the type of paper to be used for a print job. For best results, set this to the paper type you loaded in the tray of the printer. When using plain paper, set this to **Printer Default**.
- **Image Quality** improves the print quality of your text and image and make the characters and images appear smoother. It is preset to **Normal** at the factory.
- **Time out** determines the amount of time (in seconds) the printer will wait before printing the last page of a print job that does not end with a command to print the page or a formfeed character. You can set from 0 to 300 seconds.

Test Tab

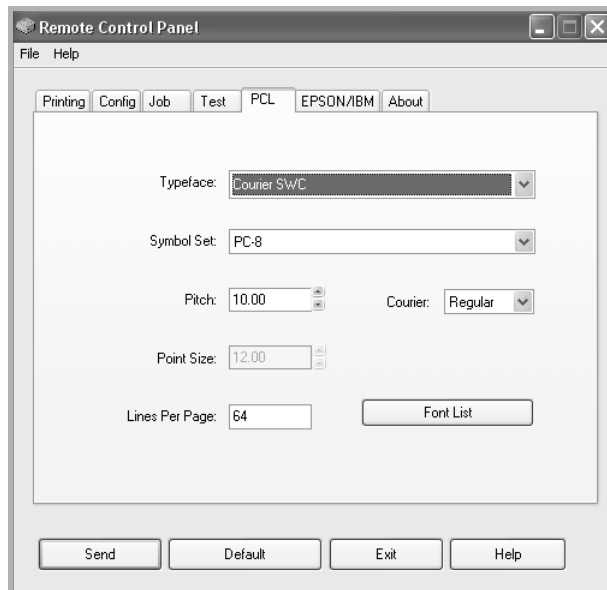
This tab allows you to print a resident page to test your printer's performance.



- **Self Test** prints a configuration sheet. A list of the user default settings and the amount of printer memory available prints.
- **Demo Page** prints a demonstration page. It shows the printer features and specifications.

PCL Tab

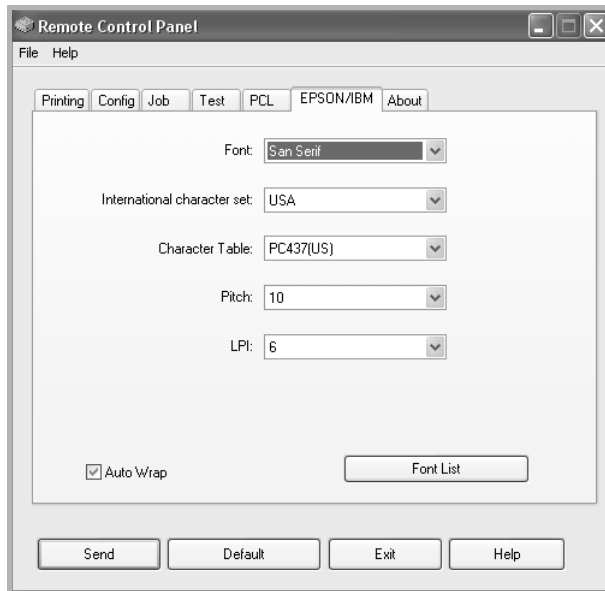
In this tab, you can configure various settings for PCL emulation.



- **Typeface** allows you to select the desired typeface. This setting is ignored when the software application specifies a font.
- **Symbol Set** determines the symbol set. A symbol set is a set of alphabetic and numeric characters, punctuation, and special symbols used when printing with a selected font.
- **Pitch** sets the font pitch (only if you have selected a scalable monospaced font). Pitch refers to the number of fixed-space characters in one horizontal inch of type.
- **Point Size** sets the font point size (only if you have selected a scalable typographic font). Point size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch. You can select point sizes from 4.0 to 999.75 in increments of 0.25 points.
- **Lines Per Page** sets the number of lines that print on each page. The setting can range from 5 to 128 lines per page.
- **Courier** determines the courier font type; **Regular** or **Dark**.
- **Font List** prints a font list showing all the fonts available for PCL emulation.

EPSON/IBM Tab

You can configure various settings for EPSON/IBM emulation.



- **Font** allows you to select the desired font.
- **International character set** allows you to select a character set of the desired language.
- **Character Table** selects the character sets.
- **Pitch** sets the font pitch. Pitch refers to the number of fixed-space characters in a horizontal inch of type.
- **LPI** sets the number of lines printed per vertical inch. You can select 6 or 8 lines.
- **Auto Wrap** determines whether or not the printer automatically performs line feed when the data overflows the printable area of the print material.
- **Font List** prints a font list showing all the fonts available for EPSON emulation.

MEMO



8.10 PRINTING FROM DOS APPLICATIONS

9

SPECIFICATIONS

This chapter includes:

- **Printer Specifications**
- **Paper Specifications**

Printer Specifications

Item	Specifications and Description
Print Speed *	Up to 20 ppm in A4 (22 ppm in Letter)
Resolution	Up to 1200 x 1200 dpi effective output
First Printing Time	10 seconds
Warm-up Time	Less than 40 seconds
Power Rating	AC 110 - 127 V (USA, Canada) / 220 - 240 V (Others) 50 / 60 Hz
Power Consumption	400 W average during operation Less than 15 W in sleep mode
Noise Level **	Less than 39 dBA (Standby)/ Less than 53 dBA (Printing)
Toner Supply	Single cartridge
Toner Cartridge Life	3,500 pages for Standard Capacity Toner Cartridge and 5,000 pages for High Capacity Toner Cartridge at ISO 19752 5% Coverage
Duty Cycle, Monthly	Up to 30,000 pages
Weight	10.2 Kg (Including consumable)
Package Weight	Paper: 2.1 Kg Plastic: 0.4 Kg
External Dimensions (W x D x H)	358 x 452 x 278 mm (14.1" x 17.8" x 10.9")
Operating Environment	Temperature: 10 - 32 °C / 50 - 90 °F Humidity: 20 - 80 % RH
Emulation	PCL 6, SPL, IBM ProPrinter, EPSON
Random Access Memory (RAM)	32 MB
Fonts	1 bitmap, 45 scalable
Interface	USB 2.0, IEEE 1284 Parallel
OS Compatibility***	Windows 98/Me/NT 4.0/2000/XP, Various Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo Linux

* Print speed will be affected by Operating system used, computing performance, application software, connecting method, media type, media size and job complexity.

** Sound Pressure Level, ISO 7779

*** Please visit www.xerox.com/office/3150support to download the latest software version.

Paper Specifications

Overview

Your printer accepts a variety of print materials, such as cut-sheet paper (including up to 100% recycled fiber content paper), envelopes, labels, transparencies, and custom-size paper. Properties, such as weight, composition, grain, and moisture content, are important factors affecting the printer's performance and the output quality. Paper that does not meet the guidelines outlined in this User's Guide can cause the following problems:

- Poor print quality
- Increased paper jams
- Premature wear on the printer.



NOTES:

- Some paper may meet all of the guidelines in this guide and still not produce satisfactory results. This may be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which Xerox has no control.
- Before purchasing large quantities of paper, ensure that the paper meets the requirements specified in this User's Guide.



CAUTION: Using paper that does not meet these specifications may cause problems, requiring repairs. These repairs are not covered by the Xerox warranty or service agreements.

Supported Sizes of Paper

Tray2	Dimensions ^a	Weight	Capacity ^b
Letter	216 X 279 mm (8.5 X 11 in.)	60 to 90 g/m ² bond (16 to 24 lb)	250 sheets of 75 g/m ² bond paper
A4	210 X 297 mm (8.3 X 11.7 in.)		
A5	148 x 210 mm (5.8 x 8.2 in.)		
Executive	184 X 267 mm (7.25 X 10.5 in.)		
Legal	216 X 356 mm (8.5 X 14 in.)		
B5 (JIS)	182 X 257 mm (7.2 X 10 in.)		
B5 (ISO)	176 x 250 mm (6.7 x 9.9 in.)		
Oficio	216 x 343 mm (8.5 x 13.5 in.)		
Folio	216 X 330 mm (8.5 X 13 in.)		

Tray 1	Dimensions ^a	Weight	Capacity ^b
Minimum Size (custom)	76 X 127 mm (3 X 5 in.)	60 to 163 g/m ² bond (16 to 43 lb)	50 sheets of 75 g/m ² bond paper
Maximum Size (custom)	216 X 356 mm (8.5 X 14 in.)		
Transparency	Same minimum and maximum paper sizes as listed above.	138 to 148 g/m ² bond (36.7 to 39.4 lb)	5 typical
Labels ^c		120 to 150 g/m ² bond (32 to 40 lb)	5 typical
Envelopes		up to 90 g/m ² (16 to 24 lb)	up to 5

a The printer supports a wide range of media sizes. See "Printing on Card Stock or Custom-sized Materials" on page 3.21.

b Capacity may vary depending on media weight and thickness, and environmental conditions.

c Smoothness: 100 to 250 (Sheffield)



NOTE: You may experience jams when using print materials with a length of less than 127 mm (5.0 in.). For optimum performance, ensure that you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page 9.7.

Guidelines for Using Paper

For best results, use conventional 75 g/m² (20 lb) paper. Ensure that the paper is of good quality, and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

If you are unsure of what type of paper you are loading, such as bond or recycled paper, check the label on the package.

The following problems may cause print quality deviations, jamming, or even damage to the printer.

Symptom	Problem with Paper	Solution
Poor print quality or toner adhesion, problems with feeding	Too moist, too rough, too smooth, or embossed; faulty paper lot	Try another kind of paper, between 100 - 250 Sheffield, 4 - 5 % moisture content.
Dropout, jamming, curl	Stored improperly	Store paper flat in its moisture-proof wrapping.
Increased gray background shading/printer wear	Too heavy	Use lighter paper, open the rear output tray.
Excessive curl problems with feeding	Too moist, wrong grain direction, or short-grain construction	<ul style="list-style-type: none">• Open the rear output tray.• Use long-grain paper.
Jamming, damage to printer	Cutouts or perforations	Do not use paper with cutouts or perforations.
Problems with feeding	Ragged edges	Use good quality paper.



NOTES:

- Do not use letterhead paper printed with low-temperature inks, such as those used in some types of thermography.
- Do not use raised or embossed letterhead.
- The printer uses heat and pressure to fuse toner to the paper. Insure that any colored paper or preprinted forms use inks that are compatible with this fusing temperature (205 °C or 400 °F for 0.1 second).

Paper Specifications

Category	Specifications
Acid Content	5.5 - 8.0 pH
Caliper	0.094 - 0.18 mm (3.0 - 7.0 mils)
Curl in Ream	Flat within 5 mm (0.02 in.)
Cut Edge Conditions	Cut with sharp blades with no visible fray.
Fusing Compatibility	Must not scorch, melt, offset, or release hazardous emissions when heated to 205 °C (400 °F) for 0.1 second.
Grain	Long Grain
Moisture Content	4 % - 6 % by weight
Smoothness	100 - 250 Sheffield

Paper Output Capacity

Output Tray	Capacity
Face-down top output tray	150 sheets of 75 g/m ² bond paper
Face-up rear output tray	a sheet of 75 g/m ² bond paper

Printer and Paper Storage Environment

Paper storage environment conditions directly affect the feed operation.

Ideally, the printer and paper storage environment should be at or near room temperature, and not too dry or humid. Remember that paper is hygroscopic; it absorbs and loses moisture rapidly.

Heat works with humidity to damage paper. Heat causes the moisture in paper to evaporate, while cold causes it to condense on the sheets. Heating systems and air conditioners remove most of the humidity from a room. As paper is opened and used, it loses moisture, causing streaks and smudging. Humid weather or water coolers can cause the humidity to increase in a room. As paper is opened and used it absorbs any excess moisture, causing light print and dropouts. Also, as paper loses and gains moisture it can become distorted. This can cause paper jams.

Care should be taken not to purchase more paper than can be used in a short time (about 3 months). Paper stored for long periods may experience heat and moisture extremes, which can cause damage. Planning is important to prevent damage to large supplies of paper.

Unopened paper in sealed reams can remain stable for several months before use. Opened packages of paper have more potential for environment damage, especially if they are not wrapped with a moisture-proof barrier.

The paper storage environment should be properly maintained to ensure optimum printer performance. The optimum condition is 20° to 24°C (68° to 75°F), with a relative humidity of 45% to 55%. The following guidelines should be considered when evaluating the paper's storage environment:

- Paper should be stored at or near room temperature.
- The air should not be too dry or too humid.
- The best way to store an opened ream of paper is to rewrap it tightly in its moisture-proof wrapping. If the printer environment is subject to extremes, unwrap only the amount of paper to be used during the day's operation to prevent unwanted moisture changes.

Envelopes

Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers, but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following components:

- **Weight:** The weight of the envelope paper should not exceed 90 g/m² (24 lb) or jamming may occur.
- **Construction:** Prior to printing, envelopes should lie flat with less than 6 mm (0.25 in.) curl, and should not contain air.
- **Condition:** Envelopes should not be wrinkled, nicked, or otherwise damaged.
- **Temperature:** You should use envelopes that are compatible with the heat and pressure of the printer.
- **Size:** You should only use envelopes within the following size ranges.

	Minimum	Maximum
Tray 1	76 X 127 mm (3 X 5 in.)	216 X 356 mm (8.5 X 14 in.)

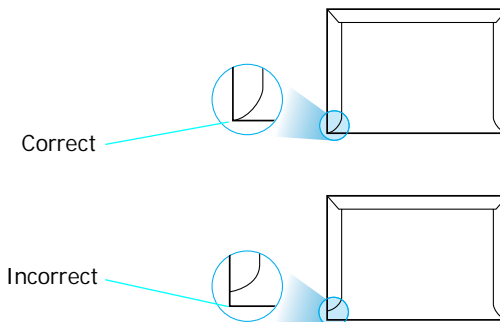


NOTES:

- Use only the Tray 1 to print envelopes.
 - You may experience some paper jams when using any media with a length less than 127 mm (5.0 in.). This may be caused by paper that has been affected by environmental conditions. For optimum performance, make sure you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page 9.7.
-

Envelopes with Double Side Seams

Double side-seam construction has vertical seams at both ends of the envelope rather than diagonal seams. This style may be more likely to wrinkle. Be sure the seam extends all the way to the corner of the envelope as illustrated below.



Envelopes with Adhesive Strips or Flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the heat and pressure in the printer. The extra flaps and strips might cause wrinkling, creasing, or even jams and may even damage the fuser.

Envelope Margins

The following gives typical address margins for a commercial #10 or DL envelope.

Type of Address	Minimum	Maximum
Return address	15 mm (0.6 in.)	51 mm (2 in.)
Delivery address	51 mm (2 in.)	89 mm (3.5 in.)



NOTES:

- For best print quality, position margins no closer than 15 mm (0.6 in.) from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Envelope Storage

Proper storage of envelopes helps contribute to print quality. Envelopes should be stored flat. If air is trapped in an envelope, creating an air bubble, then the envelope may wrinkle during printing. See "Printing on Envelopes" on page 3.14.

Labels



CAUTIONS:

- To avoid damaging the printer, use only labels recommended for laser printers.
 - To prevent serious jams, always use the Tray 1 to print labels and always use the rear output tray.
 - Never print on the same sheet of labels more than once and never print on a partial sheet of labels.
-

When selecting labels, consider the quality of each component:

- Adhesives: The adhesive material should be stable at 205 °C (400 °F), the printer's fusing temperature.
- Arrangement: Only use labels with no exposed backing between them. Labels can peel off sheets with spaces between the labels, causing serious jams.
- Curl: Prior to printing, labels must lie flat with no more than 13 mm (.5 in.) of curl in any direction.
- Condition: Do not use labels with wrinkles, bubbles, or other indications of separation.

See "Printing on Labels" on page 3.17.

Transparencies

Transparencies used in the printer must be able to withstand 170 °C (338 °F), the printer's fusing temperature.



CAUTION: To avoid damaging the printer, use only transparencies recommended for use in laser printers.

See "Printing on Transparencies" on page 3.19.



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