PHASER® 1235 COLOR PRINTER

USER GUIDE

Tektronix

COLOR PRINTERS BY

XEROX

www.xerox.com/officeprinting

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XEROX

Phaser® 1235 Color Printer
User Guide

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Warranty

Printer Warranty

Xerox warrants that the Phaser 1235 Printer will be free from defects in materials and workmanship for a period of one (1) year from the date of shipment. If the product proves defective during the warranty period, Xerox, at its option, will:

(1) repair the product by means of telephone support or on-site service at no charge for parts or labor,

(2) replace the product with a comparable product, or

(3) refund the amount paid for the product, less a reasonable allowance for usage, upon its return.

Under this product warranty, Customer must notify Xerox or its authorized service representative of the defect before the expiration of the warranty period. To obtain service under this warranty, the Customer must first contact Xerox Telephone Support personnel or that of its authorized service representative. Telephone Support personnel will work to resolve issues professionally and quickly, however the Customer must reasonably assist Xerox or its authorized representative.

If telephone support is unsuccessful, Xerox or its authorized service representative will provide warranty repair at Customer's site without charge as provided below.

Service is available within the customary on-site service area in the United States and Canada for products purchased in the United States and Canada.

Inside the European Economic Area, service is available within the customary on-site service area for products purchased in the EEA

Outside the US, Canada, & EEA, service is available within the customary on-site service area in the country of purchase

A description of the customary on-site service area may be obtained from the local Xerox Customer Support Center or authorized Xerox distributor. On-site service is at Xerox or its authorized service representative's sole discretion and is considered an option of last resort.

If the Customer's product contains features that enable Xerox or its authorized service representative to diagnose and repair problems with the product remotely, Xerox may request that Customer allow such remote access to the product.

In the maintenance of the product, Xerox may use new or equivalent to new parts or assemblies for equal or improved quality. All defective parts and assemblies become the property of Xerox. Xerox, at its option, may request the return of these parts.

Consumables Warranty

Xerox warrants that toner cartridges will be free from defects in materials and workmanship for a period of one (1) year from date of installation. All other Customer Replaceable Consumables (CRCs) will be covered for a period of ninety (90) days (six (6) months where longer periods are required by law) from the date of installation, but not more than one (1) year from date of shipment. Under this warranty, the Customer must notify Xerox or its authorized service representative of the defect before the expiration of the warranty period. XEROX MAY REQUIRE THAT THE DEFECTIVE CRC BE RETURNED TO A DESIGNATED XEROX DEPOT OR THE XEROX REPRESENTATIVE FROM WHICH THE CRC WAS ORIGINALLY PURCHASED. Claims will be handled according to the current Xerox procedure.

These warranties shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. Xerox shall not be obligated under these warranties:

a) to repair damage resulting from attempts by personnel other than Xerox representatives to install, repair or service the product unless directed by a Xerox representative;

b) to repair damage, malfunction, or degradation of performance resulting from improper use or connection to incompatible equipment or memory;

c) to repair damage, malfunction, or degradation of performance caused by the use of non-Tektronix/Xerox printer supplies or consumables or the use of Tektronix/Xerox supplies not specified for use with this printer;

d) to repair a product or CRC that has been modified or integrated with other products when the effect of such modification or integration increases the time or difficulty of servicing the product or CRC;

e) to perform user maintenance or cleaning or to repair damage, malfunction, or degradation of performance resulting from failure to perform user maintenance and cleaning as prescribed in published product materials;

f) to repair damage, malfunction, or degradation of performance resulting from use of the product in an environment not meeting the operating specifications set forth in the user manual;

g) to repair this product after the limit of its duty cycle has been reached; all service thereafter shall be billed on a time and material basis;

h) to replace CRCs that have been refilled, are used up, abused, misused, or tampered with in any way.

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User safety summary

Your printer and the recommended consumable supplies have been designed and tested to meet strict safety requirements. Attention to the following notes will ensure the continued safe operation of your printer.

Electrical Safety

- Use the power cord supplied with your printer.
- Do not use a ground adapter plug to connect the printer to a power source receptacle that lacks a ground connection terminal.
- Plug the power cord directly into a properly grounded electrical outlet. Do not use an extension cord. If you do not know whether an outlet is grounded, ask an electrician to check the outlet.

Warning

Avoid the potential of severe electrical shock by ensuring the printer is properly grounded.

- Do not place the printer where people may step on the power cord.
- Do not place objects on the power cord.
- Do not obstruct the ventilation openings. These openings are provided to prevent overheating of the printer.

Warning

Do not push objects into slots and openings on the printer. Making a contact with a voltage point or shorting out a part could result in fire or electrical shock.

- If you notice unusual noises or odors, switch off the printer power immediately. Disconnect the power cord from the electrical outlet. Call an authorized service representative to correct the problem.
- The power cord is attached to the printer as a plug-in device at the back of the printer. In the event it is necessary to remove all electrical power from the printer, disconnect the power cord from the power receptacle.

- If any of the following conditions occur, switch off the printer power immediately, disconnect the power cord, and call an authorized service representative.
  - The power cord is damaged or frayed.
  - Liquid is spilled into the printer.
  - The printer is exposed to water.
  - Any part of the printer is damaged.

Maintenance Safety

- Do not attempt any maintenance procedure that is not specifically described in the documentation supplied with your printer.
- Do not use aerosol cleaners. The use of supplies that are not approved may cause poor performance and could create a dangerous condition.
- Do not remove the covers or guards that are fastened with screws unless you are installing optional equipment and are specifically instructed to do so. Power should be OFF when performing these installations. Except for user installable options, there are no parts that you can maintain or service behind these covers.

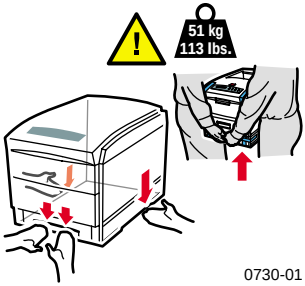
Operational Safety

Your printer and supplies were designed and tested to meet strict safety requirements. These include safety agency examination, approval, and compliance with established environmental standards.

Your attention to the following safety guidelines will help to ensure the continued safe operation of your printer.

- Use the material and supplies specifically designed for your printer. The use of unsuitable materials may result in poor performance and possibly a hazardous situation.
- Follow all warnings and instructions marked on, or supplied with, the printer, options and supplies.
- Place the printer in a dust free area where the temperature range is 50 degrees F to 90 degrees F (10 degrees C to 32 degrees C) and the relative humidity is 10 percent to 85 percent.
- Place the printer in an area where there is adequate space for ventilation, operation and servicing. The recommended minimal spacing is 90 cm (36 in.) in front of and above the printer, 60 cm (24 in.) behind the printer, and 30 cm (12 in.) on each side of the printer. Do not block or cover the slots and openings on the printer. Without adequate ventilation, the printer may overheat.
- For optimum performance, use the printer at elevations below 2,000 meters (6,560 ft.). Performance may diminish at elevations between 2,000 meters (6,560 ft.) and 3,000 meters (9,840 ft.). Use at elevations above 3,000 meters (9,840 ft.) exceeds operability limits.
- Do not place the printer near a heat source.
- Do not place the printer in direct sunlight.
- Do not place the printer in line with the cold air flow from an air conditioning system.

- Place the printer on a level, solid surface with adequate strength for the weight of the machine. The base printer weight without any packaging materials is 51 kg (113 pounds).
- The printer is heavy, and must be lifted by two people. The illustration below shows the proper technique for lifting the printer.



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- Exercise care in moving or relocating the printer, it is front-heavy and could tip forward. Follow the recommended procedure when moving the printer from one location to another. Refer to the *Phaser 1235 Setup Instructions*.
- Do not place any liquids on the printer.

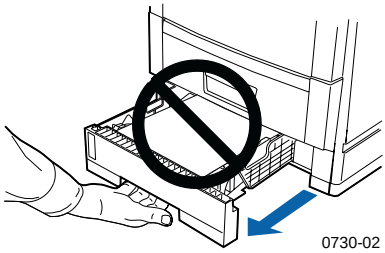
Warning

Be careful when working in areas inside the printer identified with a warning symbol. These areas may be very hot and could cause personal injury.

- Wait 10-15 seconds between switching the printer off and on.
- Keep hands, hair, neckties, etc., away from the exit feed rollers.

While printing, do not remove:

- the media source tray that you have selected in the driver or front panel
- any trays above the currently selected media source tray.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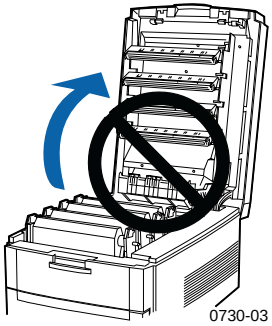
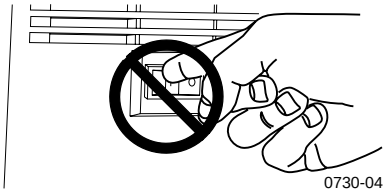
- Do not open the covers while printing.



- Do not switch off the printer power while printing.



- Do not move the printer while printing.

Symbols as marked on product:

DANGER high voltage:

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Protective ground (earth) terminal:

0730-06

Hot surface on or in the printer. Use caution to avoid personal injury:

0730-07

0730-08

0730-09

Use caution. Refer to the manual(s) for information:

0730-10

Warning

If the product loses the ground connection, usage of knobs and controls (and other conductive parts) can cause an electrical shock. Electrical product may be hazardous if misused.

Warning

For your protection, do not defeat any interlocks.

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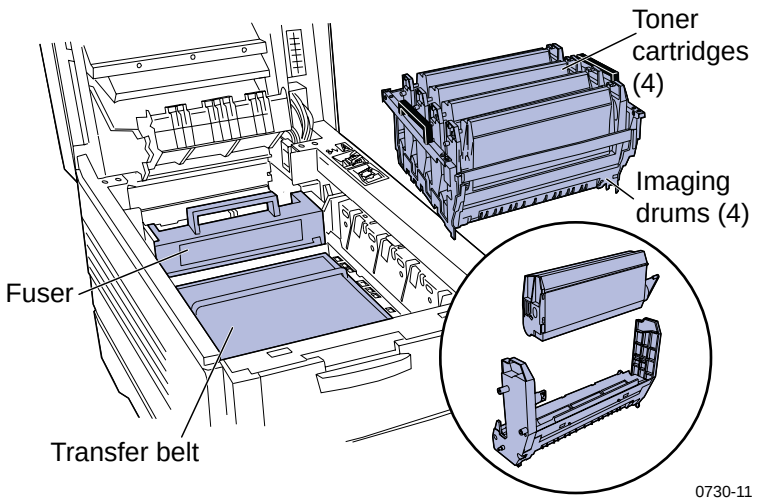
Xerox Supplies and Accessories



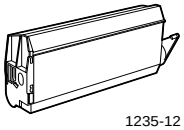
Note

Inside the printer, all handles and points of user interaction for replacing Customer-Replaceable Consumables (CRCs) are **light orange.**

When the front panel prompts you that a supply is low or needs to be replaced, make sure that you have replacements on hand. To order supplies and accessories, contact your local dealer or visit the Xerox web site:

www.xerox.com/officeprinting/supplies/

Customer-Replaceable Consumables (CRCs)



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High-Capacity Toner Cartridges*

Item	Part Number
Cyan	006R90304
Magenta	006R90305
Yellow	006R90306
Black	006R90303

* Toner cartridge life expectancy is up to 10,000 images at 5 percent coverage per color. The following customer usage patterns may significantly reduce toner cartridge life: higher than 5 percent coverage, printing jobs of less than 5 pages, opening and closing the top cover, and turning the printer off and on.

Standard Toner Cartridges**

Item	Part Number
Cyan	006R90294
Magenta	006R90295
Yellow	006R90296
Black	006R90293

** Toner cartridge life expectancy is up to 5,000 images at 5 percent coverage per color. The following customer usage patterns may significantly reduce toner cartridge life: higher than 5 percent coverage, printing jobs of less than 5 pages, opening and closing the top cover, and turning the printer off and on.

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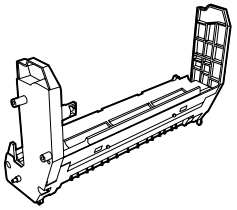
This is an example of 5 percent coverage per color (20 percent coverage per page).



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Imaging Drums*

Item	Part Number
Cyan Imaging Drum	013R90133
Magenta Imaging Drum	013R90134
Yellow Imaging Drum	013R90135
Black Imaging Drum	013R90132

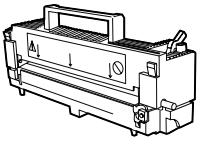
*Imaging drum life expectancy is up to 22,000 pages based on continuous printing. The following customer usage patterns may significantly reduce imaging drum life: printing jobs of less than 5 pages, opening and closing the top cover, turning the printer off and on, printing on transparencies or specialty papers, and automatic two-sided printing.

Note

Cyan, Magenta and Yellow imaging drums typically need to be replaced at the same time, regardless of color usage.

Imaging Drum Rainbow Pack

Item	Part Number
Imaging Drum Rainbow Pack (each pack contains a Cyan, Magenta, and Yellow imaging drum)	016-1934-00



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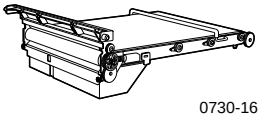
Fuser*

Item	Part Number
110 volt	008R12685
220 volt	008R12686

*Fuser life expectancy is up to 60,000 pages.



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Transfer Belt**

Item	Part Number
Transfer Belt	001R00559

** Transfer belt life expectancy is up to 66,000 pages based on continuous printing. The following customer usage patterns may significantly reduce the transfer belt life: printing jobs of less than 5 pages, opening and closing the top cover, turning the printer off and on, printing on transparencies or specialty papers, and automatic two-sided printing.

Customer Replaceable Units (CRUs)

Paper Feed Roller Kit

Item	Part Number
Paper Feed Roller Kit	600K89320

Supplies

Xerox Phaser Professional Printing Paper

Item	Size	Description	Part Number
Phaser Premium Color Printing Paper (24 lb. bond)	A/Letter (U. S.) 8.5 x 11 in.	500 sheets	016-1368-00
Phaser Premium Color Printing Paper (90 g/m^2)	A4 (Metric Letter) 210 x 297 mm	500 sheets	016-1369-00
Phaser Glossy Coated Paper (100 lb. text)	A/Letter (U. S.) 8.5 x 11 in.	100 sheets	016-1704-00
Phaser Glossy Coated Paper (148 g/m^2)	A4 (Metric Letter) 210 x 297 mm	100 sheets	016-1705-00
Phaser Premium Cover Paper (60 lb. cover)	A/Letter (U. S.) 8.5 x 11 in.	100 sheets	016-1823-00
Phaser Premium Cover Paper (160 g/m^2)	A4 (Metric Letter) 210 x 297 mm	100 sheets	016-1824-00

Xerox Phaser 35 Series Transparency Film

Item	Size	Description	Part Number
Premium	A/Letter (U. S.) 8.5 x 11 in.	50 sheets	016-1896-00
Premium	A4 (Metric Letter) 210 x 297 mm	50 sheets	016-1897-00
Standard	A/Letter (U. S.) 8.5 x 11 in.	50 sheets	016-1894-00
Standard	A4 (Metric Letter) 210 x 297 mm	50 sheets	016-1895-00

Xerox Phaser Transparency Sleeves and Pockets

Item	Part Number
Transparency Sleeve	
■ A/Letter size	■ 016-1130-00
■ A4 size	■ 016-1131-00
Transparency Pocket ■ A/Letter size	016-1194-00

Xerox Phaser Color Laser Labels

Size	Description	Part Number
A/Letter (U. S.) 8.5 x 11 in. (108 lb. label)	100 sheets / 30 labels per sheet 1.0 x 2.625 in. labels	016-1695-00
A/Letter (U. S.) 8.5 x 11 in. (108 lb. label)	100 sheets / 6 labels per sheet 3.33 x 4.0 in. labels	016-1696-00
A4 (Metric Letter) 210 x 297 mm (176 g/m^2)	100 sheets / 14 labels per sheet 38.1 x 99.1 mm labels	016-1688-00
A4 (Metric Letter) 210 x 297 mm (176 g/m^2)	100 sheets / 8 labels per sheet 67.7 x 99.1 mm labels	016-1689-00

Xerox Phaser Premium Business Cards

Item	Description	Part Number
A/Letter (U.S.) 8.5 x 11 in. (50 lb. bond)	25 sheets / 10 cards per sheet 2.0 x 3.5 in. cards	016-1898-00
A4 (Metric Letter) 210 x 297 mm (190 g/m^2)	25 sheets / 10 cards per sheet 55 x 86 mm cards	016-1899-00

Cleaning Kit

Item	Part Number
■ Contains instructions and five alcohol wipes	016-1845-00

Accessories

Universal Tray

Paper Capacity	Part Number
530 sheets of 75 g/m^2 (20 lb. bond) paper ■ 175 Standard transparency sheets ■ 175 Premium transparencies sheets	050K50630

Internal Hard Drive

Features	Part Number
■ 5-Gbyte Capacity ■ Adds more storage for collation, downloaded fonts, forms and overlays ■ Provides support for Secure Print and Proof Print jobs ■ Enables TIFF and PDF printing	1235HD

Automatic Duplex Unit

Features	Part Number
■ *Automatic* 2-sided printing with the Duplex Unit ■ Increased printing versatility and convenience ■ Allows Booklet printing feature	1235DP

Phaser 35 Series Token Ring Network Card

Features	Part Number
■ Easy to install ■ Token Ring connectivity	Z35TR

Additional Memory

Features	Part Number
■ 64 Mbytes	ZMB64
■ 128 Mbytes	ZMB128
■ 256 Mbytes	ZMB256
■ 512 Mbytes	ZMB512

Note

256- Mbyte DIMMs must be used alone or as a pair. They cannot be used in combination with any other size of memory.

Printer Station

Features	Part Number
■ Ergonomic surface height ■ Provides storage for supplies	ZCARTD

Lower Tray Assembly

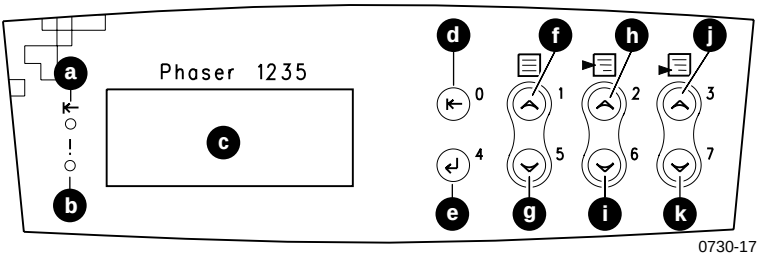
Features	Part Number
■ Paper capacity is 530 sheets of 75 g/m^2 (20 lb. bond) paper ■ Up to two lower tray assemblies can be installed	1235LTA

Front Panel Usage

Front Panel Layout

The printer's front panel serves several purposes:

- Displays printer status and job in process.
- Lets you change printer settings.
- Lets you print reports and password-protected pages stored on the optional hard drive.



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Front Panel Buttons

a	On-line indicator light	**g**	Menu Down button
b	Fault indicator light	**h**	Item Up button
c	Two-line display	**i**	Item Down button
d	On-line button	**j**	Value Up button
e	Enter button	**k**	Value Down button
f	Menu Up button		

Basic Menu Navigation

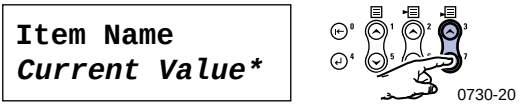
For a description of the menu system, items and values, see *The Menu System* in the Advanced Features and Troubleshooting Manual on the CD-ROM.

1. Press **Menu Up** or **Menu Down** to scroll the available menus; until *Menu Name* is the current menu.

2. Press **Item Up** or **Item Down** to scroll the submenu (all menus except the Password Menu).

Item Name is the current item. For the Job, Print and Reset Menus, the bottom line of the display indicates an action to be taken.

3. Press **Value Up** or **Value Down** to select a value.

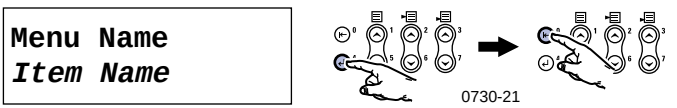


To scroll quickly, hold down **Value Up** or **Value Down**.

Note

The asterisk (*) indicates the currently selected value.

4. When you see the value you want, press **Enter** to accept it.



Continue working in the Menu by repeating Steps 1-4. Or, press **On-line** to exit the menu and return to **Ready.**

Note

If you press **On-line** before pressing **Enter** the new value is not saved and the Menu is exited.

The printer automatically exits the Menu after 60 seconds of inactivity (no button has been pressed).

Some commonly performed front panel procedures are described in the *Advanced Features and Troubleshooting Manual* on the CD-ROM:

- Printing Printer Reports
- Printing Secure Print and Proof Print Jobs
- Deleting Secure Print and Proof Print Jobs
- Setting Network Addressing
- Canceling Print Jobs

Note

Changes made in the printer driver override front panel settings.

Printing the Menu Map

You can print the Menu Map to help you navigate the front panel.

1. At the front panel, press **Menu Up** or **Menu Down** until you see:

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2. Press **Item Up** or **Item Down** until you see **Menu Map.**
3. Press **Enter** to print the page.

The Menu Map page is printed and the printer is automatically ready for its next print job.

Print Modes

Print Modes

Draft	Toner saving mode; lighter than Normal Quality; 600 x 600 dpi.
Normal	Recommended for basic office printing, 600 x 600 dpi.
High Quality	Makes very fine lines, sharp edges, and small text sharper; 600 x 1200 dpi.

From the printer's front panel:

1. Use the **Menu** buttons to scroll to **PostScript Menu.**
2. Use the **Item** buttons to scroll to **Print Mode.**
3. Use the **Value** buttons to select the desired Print-Quality Mode.
4. Press the **Enter** button to save the changes.
5. Press the **On-line** button to exit the Menu System.

Note

You can select the Print-Quality mode in the front panel or software driver. Refer to the Advanced Features and Troubleshooting Manual for driver instructions, or see the on-line help in the driver.

The software driver always overrides the front panel settings.

Color Modes

Color Mode

SnapColor	Best for printing documents with a variety of content like text and graphics. This is the default mode.
Grayscale	Use for producing the best black-and-white version of a document.
Fax Friendly	Black-and-white version that converts colors to patterns. Recommended for copying or faxing of documents.
Unadjusted	For printing from applications that do all their own color management.

Advanced Color Modes

See the *Advanced Features and Troubleshooting Manual* for more detail. The Advanced Color Modes includes the following:

ICC Saturation*

ICC Perceptual*

ICC Colorimetric*

CMYK Simulation*

* You can select these from the **Advanced Color Mode** option in your driver.

From the printer's front panel:

1. Press the **Menu** buttons to scroll to **PostScript Menu.**
2. Press the **Item** buttons to scroll to **Color Mode.**
3. Press the **Value** buttons to select the desired Color Mode.
4. Press the **Enter** button to save your selection.
5. Press the **On-line** button to exit the **Menu.**

Note

You can select the Color Mode in the front panel or software driver. For more detailed information on *Color Modes*, refer to the *Advanced Features and Troubleshooting Manual* on the CD-ROM, or see the on-line help in the driver.

The software driver overrides front panel settings.

Advanced Features

Black Overprint	Reduces thin white outlines that may appear around black text edges on color backgrounds.
Process Grayscale	Prints black areas of your image with cyan, magenta, and yellow toner making blacks appear richer.
Unspecified RGB Interpretation (Only available in the driver.)	■ **Xerox RGB**: Produces lighter color prints than sRGB. ■ **sRGB**: Settings that are defined by the sRGB standard. ■ **Custom RGB:** Allows you to select your **Gamma** and **Phosphor** settings.
Unspecified CMYK Interpretation (Only available in the driver.)	■ **Vivid:** Makes blue colors appear less purple. Use when printing transparencies. ■ **SWOP:** Specification for Web Offset Publications. Use to match U.S. press standards. ■ **EuroScale:** European color standard for printing presses. ■ **Japan Color:** A Japanese color standard for printing presses. ■ **Printer Device:** Uses built-in CMYK tables.

Image Enhancement

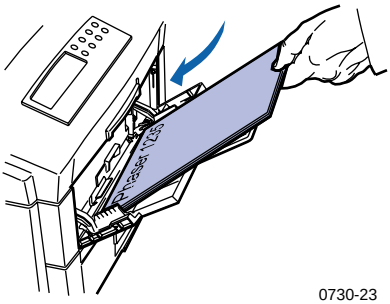
ImageFix 2 (Only available in the driver.)	Best setting for printing photographs, web pages, or bitmap images. Automatically enhances RGB images if the exposure level, color balance, sharpness, brightness, or contrast settings in the original image have not been optimized. Optimized images will not be affected by this setting. Default mode is Off.

Paper Tips

Caution

Do not use any media designed for inkjet printers, especially inkjet coated paper and inkjet transparencies. Inkjet media is coated with a substance that can damage printer components. Damage caused by using non-supported media is not covered by the printer's warranty. Always use Xerox Phaser media that has been specially designed for use with your printer.

Use only Xerox Phaser 35 Series Transparencies. Other transparencies may cause damage to the fuser. Any damage that is caused due to the use of unsupported media is not covered by your printer's warranty.



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- For specialty media, use the Multi-Sheet Bypass Feeder (MBF) with the Face-up output bin open at the rear of the printer; refer to *page 26*.
- For best results, use Xerox Phaser paper; it is guaranteed to produce excellent results on your Phaser 1235 printer.
- A low-paper message is displayed when there are approximately 30 to 40 sheets of paper remaining in the paper tray.
- Auto tray switching is available. When one tray runs out of media, the printer switches to the next tray that contains the same media size. If you do not have a second tray, a *Load Tray 1* message appears on the front panel.
- While Tray 1 is printing, Tray 2 and Tray 3 may be loaded with paper.

- Always keep media in a sealed package to avoid the effects of humidity, which can affect print quality.
- If you use non-Xerox paper, make sure that it meets the following criteria:
  - Weight range: 60 - 203 g/m^2 (16 - 54 lb. bond)
  - Smooth surface
  - Intended for laser printers
- Do not use wrinkled or damaged paper.

Supported page sizes and print area

The printer supports these media sizes, which you select in the **Print** dialog box of a supported printer driver.

Supported page sizes and print area

			Margins	
Media	**Page size**	**Image area**	**Top / Bottom**	**Sides**
Letter	8.5 x 11 in. 215.9 x 279.4 mm	8.17 x 10.67 in.	.167 in.	.167 in.
Legal	8.5 x 14 in. 215.9 x 355.6 mm	8.17 x 13.67 in.	.167 in.	.167 in.
8.5 x 13 in.*	8.5 x 13.0 in. 215.9 x 330 mm	8.17 x 12.67 in.	.167 in.	.167 in.
8 x 13 in.*	8.0 x 13.0 in. 203 x 330.2 mm	7.67 x 12.67 in.	.167 in.	.167 in.
215 x 315 mm*	215 x 315 mm 8.47 x 12.41 in.	8.13 x 12.07 in.	4.2 mm .167 in.	4.2 mm .167 in.
A4	210 x 297 mm 8.27 x 11.69 in.	201 x 288 mm	4.2 mm .167 in.	4.2 mm .167 in.
JIS B5	182 x 257 mm 7.16 x 10.12 in.	173 x 248 mm	4.2 mm .167 in.	4.2 mm .167 in.
A5	148 x 210 mm 5.83 x 8.27 in.	139 x 201 mm	4.2 mm .167 in.	4.2 mm .167 in.
Executive	7.25 x 10.5 in. 184.2 x 266.7 mm	6.92 x 10.17 in.	.167 in.	.167 in.
Statement*	5.5 x 8.5 in. 139.7 x 215.9 mm	5.17 x 8.17 in.	.167 in.	.167 in.
8 x 10 in.*	8.0 x 10.0 in. 203.2 x 254 mm	7.67 x 9.67 in.	.167 in.	.167 in.
A6*	105.0 x 148.0 mm 4.13 x 5.83 in.	96.5 x 139.5 mm.	4.2 mm .167 in.	4.2 mm .167 in.

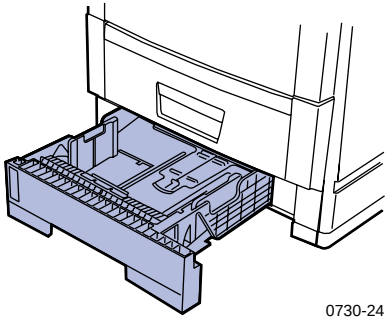
*** Only use this media in the Multi-Sheet Bypass Feeder (MBF). Open the Face-up output bin on the back of the printer. Refer to *page 27*.**

Supported page sizes and print area (Continued)

			Margins	
Media	**Page size**	**Image area**	**Top / Bottom**	**Sides**
Monarch Envelope*	3.88 x 7.5 in. 98.4 x 190.5 mm	90.1 x 182 mm	4.2 mm .167 in.	4.2 mm .167 in.
#10 Envelope*	4.13 x 9.5 in. 104.8 x 241.3 mm	3.8 x 9.17 in. (96.4 x 232.8 mm)	.167 in.	.167 in.
C5 Envelope*	162 x 229 mm 6.38 x 9.02 in.	153.8 x 220.6 mm	4.2 mm .167 in.	4.2 mm .167 in.
DL Envelope*	110 x 220 mm 4.33 x 8.66 in.	101.5 x 211.5 mm	4.2 mm .167 in.	4.2 mm .167 in.
JIS B5 Envelope*	176 x 250 mm 6.93 x 9.85 in.	167.5 x 241.5 mm	.167 in.	.167 in.

*** Only use this media in the Multi-Sheet Bypass Feeder (MBF). Open the Face-up output bin on the back of the printer. Refer to *page 27*.**

Universal Tray



Tray 1 can be used for paper or transparencies. Trays 2 and 3 (if installed) should only be used for paper.

Paper Specifics

- 530-sheet capacity (75g/m^2/20 lb. bond paper)
- 60 - 176 g/m^2 (16 - 47 lb. bond paper)
- Use Xerox Phaser Premium Color Printing Paper. Refer to *page 5* for ordering supplies.
- For supported paper sizes, see *page 18*.

Note

Specialty papers such as Xerox Phaser Glossy Coated Paper, envelopes, Xerox Phaser Color Laser Labels, and Xerox Phaser Business Cards must be loaded in the Multi-Sheet Bypass Feeder (MBF) only.

Transparency Specifics

- 175-sheet capacity for Standard Transparencies
- 175-sheet capacity for Premium Transparencies
- For information on loading transparencies, refer to the instructions shipped in the Xerox Phaser 35 Series Transparency Film box.
- Transparencies can be used in Tray 1 only (transparencies are not supported in Tray 2 or Tray 3).
- Use only Premium or Standard Xerox Phaser 35 Series Transparencies. See *page 1* for supplies ordering information. For information on Xerox transparencies, visit the Xerox web site:

  www.xerox.com/officeprinting/trans/

Caution

Use only Xerox Phaser 35 Series Transparencies; other transparencies may cause damage to the fuser. Any damage that is caused due to the use of unsupported media is not covered by your printer's warranty.

Universal Tray Loading (Tray 1, 2, or 3)

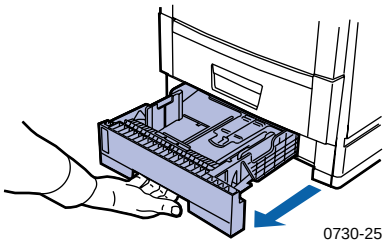
Each printer trays holds up to 530 sheets of 75 g/m^2 (20 lb.) bond paper. Capacity is reduced for heavier or thicker stock. The Face-down output bin on top of the printer holds up to 500 sheets and the Face-up output bin at the rear of the printer holds up to 100 sheets of 75 g/m^2 (20 lb.) bond paper.

Note

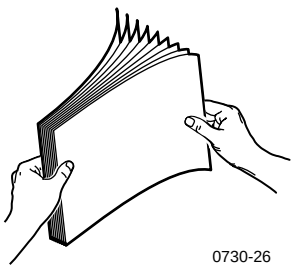
For supported page sizes, refer to *page 18*.

To load a Universal tray, follow these steps:

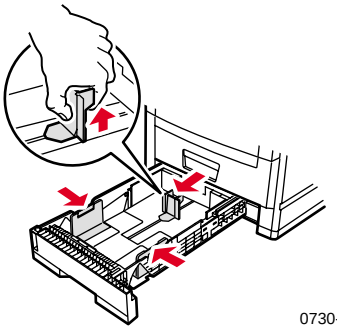
1. Pull out the Universal Tray.



2. Fan the media to release sheets that are stuck together.



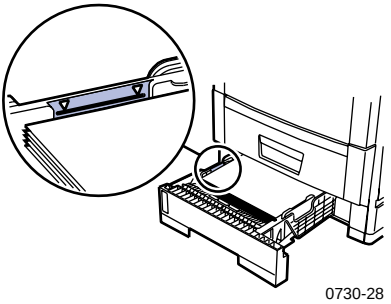
3. Adjust the width and length guides to match the size of your paper. Paper size is automatically detected from the tray settings.



4. Observe the fill line on the left side of the Universal Tray. Do not load paper or transparencies above this line because you may damage the printer.

   a. Paper: 530 sheets (75 g/m^2/20 lb. bond paper)

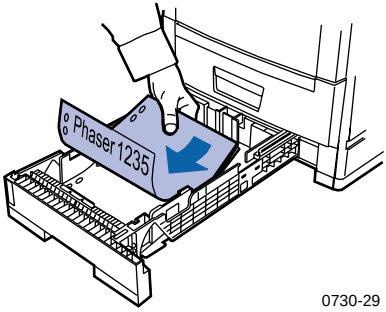
   b. Transparency: 175 Standard sheets; 175 Premium sheets



Note:

To load transparencies: From the **Tray 1 Type** menu, select **Transparency.** Select the Transparency setting and tray in the printer driver.

5. Insert a stack of paper into the Universal Tray. For proper print orientation:
   - The print side should be **face-down**.
   - Prepunched holes should be on your left as you face the printer.
   - Letterhead should be at the front of the tray.



   - For information on loading transparencies, refer to the instructions shipped in the Xerox Phaser 35 Series Transparency Film box.

6. Re-insert the Universal Tray.
7. Set the Front Panel to match the loaded media type. See *page 24*:
   a. From the front panel press the **Menu** buttons to scroll to **Tray Menu.**
   b. Press the **Item** buttons to scroll to **Tray 1 Type** (if loading Tray 1).
   c. Press the **Value** buttons to select an option listed:

Front Panel Media Options

Media Type	Weight
Plain	60-90 g/m^2 (16-24 lb. bond)
Preprinted	60-90 g/m^2 (16-24 lb. bond)
Letterhead	60-90 g/m^2 (16-24 lb. bond)

Front Panel Media Options (Continued)

Media Type	Weight
Transparency	
Prepunched	60-90 g/m^2 (16-24 lb. bond)
Bond	60-90 g/m^2 (16-24 lb. bond)
Recycled	60-90 g/m^2 (16-24 lb. bond)
Color	60-90 g/m^2 (16-24 lb. bond)
Card Stock	121-176 g/m^2 (45-65 lb. cover)
Light Card Stock	90-120 g/m^2 (24-32 lb. bond)

d. Press the **Enter** button to save your selection.

e. Press the **On-line** button to exit the Menu.

Note

To avoid possible print-quality and media-feed problems, make sure that the loaded media matches the tray type setting.

Multi-Sheet Bypass Feeder (MBF)

Always use the Multi-Sheet Bypass Feeder (MBF) for specialty media.

Media Specifics

- 60 - 203 g/m^2 (16 - 54 lb. bond).
- The MBF supports the following paper and specialty media types:

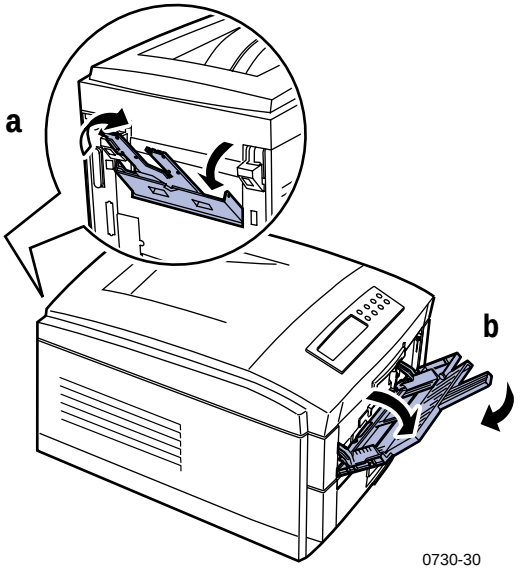
Supported Media	Capacity
Paper 60 - 90 g/m^2 (16 - 24 lb. bond)	100 sheets (75 g/m^2/20 lb. bond)
Xerox Phaser 35 Series Transparencies	80 sheets (Standard) 70 sheets (Premium)
Xerox Phaser Glossy Coated Paper 150 g/m^2 (100 lb. book)	80 sheets
Xerox Phaser Business Cards 190 g/m^2 (70 lb. cover)	30 sheets
Heavy paper: ■ Cover Stock 121 - 203 g/m^2 (45-75 lb. cover) ■ Index Stock 121 - 203 g/m^2 (67-112 lb. index) ■ Light Card Stock 90 - 120 g/m^2 (24-32 lb. bond) ■ Card Stock 121 - 203 g/m^2 (45-75 lb. cover) ■ Glossy Coated Paper 121 - 160 g/m^2 (82-108 lb. book)	30 sheets
Xerox Phaser Color Laser Labels 121 - 203 g/m^2 (74-125 lb. tag)	50 sheets
Envelopes (Monarch, #10, C5, DL, JIS B5)	10 envelopes

- For information on loading transparencies, refer to the instructions shipped in the Xerox Phaser 35 Series Transparency Film box. Use Xerox Phaser 35 Series Transparencies only.
- When sending a **Manual Feed** job to the MBF, all media must be removed and replaced each time so that the MBF registers paper for the current print job.

- When sending a **Multi-Sheet Bypass Feeder (MBF)** job from the driver, the printer prompts you to load the correct media if the media does not match what you previously loaded.
- If a different media size is loaded in the MBF than what is selected in the driver, the printer stops and the front panel prompts you to load the correct media size in the MBF.

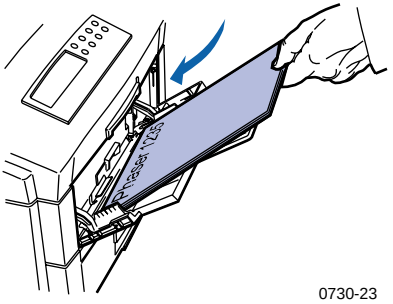
Loading the Multi-Sheet Bypass Feeder (MBF)

1. Open the Multi-Sheet Bypass Feeder tray and unfold the single extension **(a)**.
2. Open the Face-up output bin at the rear of the printer and swing out the two extensions where the media will exit **(b)**.



   - The Multi-Sheet Bypass Feeder (MBF) does not automatically detect paper size.
   - Automatic 2-Sided Printing is not available with the Multi-Sheet Bypass Feeder.
3. Insert the media and adjust the guide for the media width:
   - For Xerox Phaser 35 Series Transparencies, refer to *page 30*.
   - For Xerox Phaser Color Laser Labels, refer to *page 34*.

- For envelopes, refer to *page 34*.



4. Set the front panel to match the media type loaded in the MBF.
   a. From the front panel, press the **Menu** buttons to scroll to **Tray Menu**.
   b. Press the **Item** buttons to scroll to **MBF Type.** The **Value** buttons give you these options:

Media Types

Media Types	Weight
Plain	60-90 g/m^2 (16-24 lb. bond)
Preprinted	60-90 g/m^2 (16-24 lb. bond)
Letterhead	60-90 g/m^2 (16-24 lb. bond)
Transparency	
Prepunched	60-90 g/m^2 (16-24 lb. bond)
Labels	121 - 203 g/m^2 (74-125 lb. tag)
Bond	60-90 g/m^2 (16-24 lb. bond)
Recycled	60-90 g/m^2 (16-24 lb. bond)
Color	60-90 g/m^2 (16-24 lb. bond)
Card Stock	121 - 203 g/m^2 (45-75 lb. cover)
Light Card Stock	90-120 g/m^2 (24-32 lb.bond)
Envelope	

Media Types (Continued)

Media Types	Weight
Glossy	121 - 160 g/m^2 (82-108 lb. book)
Postcard	121 - 203 g/m^2 (45-75 lb. cover)

c. Select the appropriate media type and press **Enter** to save your selection. See *Supported page sizes and print area* on page 18.

5. Press the **Item** buttons to scroll to **MBF Size.**

a. Scroll with the **Value** buttons to select the appropriate size.

b. Press the **Enter** button to save your selection.

c. Press the **On-line** button to exit the Menu System.

6. From the driver:

a. Select **Multi-Sheet Bypass Feeder (MBF)** as **Paper Source**.

b. Select the appropriate media size and type.

Note

To avoid possible print-quality and media-feed problems, make sure that the loaded media matches the tray type setting.

7. Send the job to the printer. Refer to Printing in the *Advanced Features and Troubleshooting Manual.*

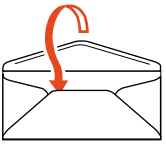
Loading Specialty Media in the Multi-Sheet Bypass Feeder (MBF)

Xerox Phaser 35 Series Transparencies

For information on loading transparencies, refer to the instructions shipped in the Xerox Phaser 35 Series Transparency Film box.

Envelopes

1. Prepare each envelope by tucking in the envelope flap.



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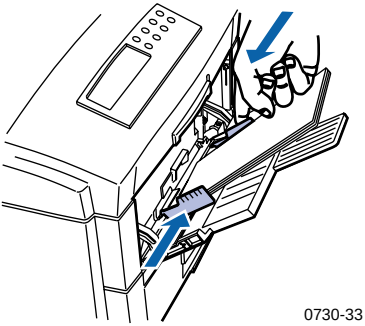
2. Insert the envelopes (maximum capacity is 10):
   a. Short end enters ***first.***
   b. Side to be printed is ***face-up.***
   c. Make a test print from your application to determine the correct orientation of your envelope.



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3. Adjust the Multi-Sheet Bypass Feeder (MBF) guides for the width of your envelopes.
4. Open the Face-up output bin at the rear of the printer.
5. Set the front panel to match the media type loaded in the MBF.
   a. From the front panel, press the **Menu** buttons to scroll to **Tray Menu**.
   b. Press the **Item** buttons to scroll to **MBF Type.**
   c. Press the **Value** buttons to scroll to **Envelope;** press **Enter** to save your selection.

6. Press the **Item** buttons to scroll to **MBF Size.**
   a. Scroll with the **Value** buttons to select the appropriate size.
   b. Press the **Enter** button to save your selection. See *Supported page sizes and print area* on page 18.
   c. Press the **On-line** button to exit the Menu.
7. From the driver:
   a. Select **Multi-Sheet Bypass Feeder (MBF)** as **Paper Source.**
   b. Select the appropriate size.
   c. Select **Envelope** as the media type.
8. Send the job to the printer. Refer to Printing in the *Advanced Features and Troubleshooting Manual*.

Guidelines for envelope printing:

Caution

Never use envelopes with windows or metal clasps; they will damage the printer.

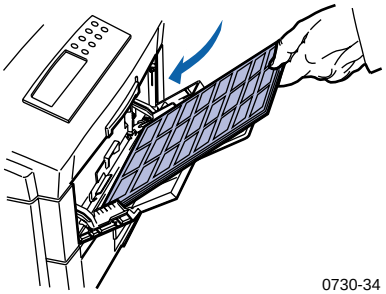
- Tuck in the envelope flap to reduce wrinkling.
- Do not print on the back of the envelope.
- Keep unused envelopes in their packaging to avoid the effects of moisture and dryness, which can affect print quality and cause wrinkling.
- Many applications include a tool for creating an envelope document. For example, Microsoft Word includes an **Envelopes and Labels** feature under the **Tools** menu. Make sure that you select **Face Up;** select the feed method with the image centered; and unselect **Clockwise Rotation.**
- Load a maximum of 10 envelopes at a time.
- No exposed gummed surfaces.
- Single-sided printing only.

Note

- This printer is not made to handle high-capacity production envelope printing.
- **Envelopes may wrinkle** depending on weight and stiffness of the envelope.

Xerox Phaser Color Laser Labels and Xerox Phaser Business Cards

1. Insert the label sheets (maximum capacity is **50** sheets) or business cards (maximum capacity is **30** sheets). Side to be printed is ***face-up.***



2. Adjust the Multi-Sheet Bypass Feeder (MBF) guides for the width of your Xerox Phaser Color Laser Labels or Xerox Phaser Business cards.
3. Open the Face-up output bin at the rear of the printer.
4. Set the front panel to match the media type loaded in the MBF.
   a. From the front panel, press the **Menu** buttons to scroll to **Tray Menu**.
   b. Press the **Item** buttons to scroll to **MBF Type.**
   c. Press the **Value** buttons to scroll to **Labels** or **Card Stock** (for business cards). Press **Enter** to save your selection.
5. Press the **Item** buttons to scroll to **MBF Size.**
   a. Scroll with the **Value** buttons to select the appropriate size.
   b. Press **Enter** to save your selection. See *Supported page sizes and print area* on page 18.
   c. Press the **On-line** button to exit the Menu.

6. From the driver:
   a. Select **Multi-Sheet Bypass Feeder (MBF)** as **Paper Source.**
   b. Select the appropriate size for **Labels.**
   c. Select **Labels** or **Card Stock** (for business cards) as the media type.
7. Send the job to the printer. Refer to Printing in the *Advanced Features and Troubleshooting Manual*.

Automatic 2-Sided Printing From the Paper Tray

For best results with automatic 2-sided printing, do not use heavy toner coverage on the even-numbered pages of your print job.

Automatic 2-sided printing is available from all trays; it is not available from the Multi-Sheet Bypass Feeder. To use automatic 2-sided printing, the duplex option must be installed in the printer. For best results with 2-sided printing, use 90 g/m^2 (24 lb. bond) laser paper.

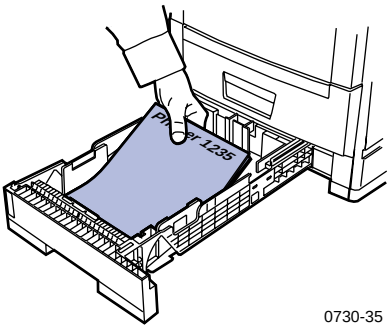
Automatic 2-sided printing is available only on Legal, Letter, A4, A5, Folio, Executive and JIS B5 paper sizes, with a paper weight between 75 - 105 g/m^2 (20 - 28 lb.).

Caution

Any damage that is caused due to the use of unsupported media is not covered by your printer's warranty. Use only laser bond paper for automatic 2-sided printing in the Universal Tray. **Do not use** any specialty media (such as glossy coated paper) to print automatic 2-sided printing.

1. Load 75 - 105 g/m^2 (20 - 28 lb. bond) paper in the Universal Tray.

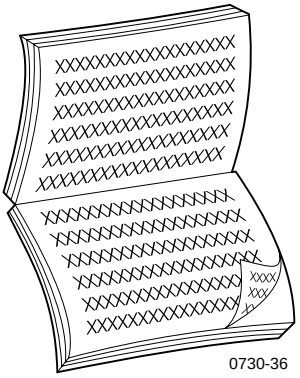
   For letterhead printing:
   Place the **first side to be printed *face-up*** with the top of the page toward the back of the printer.



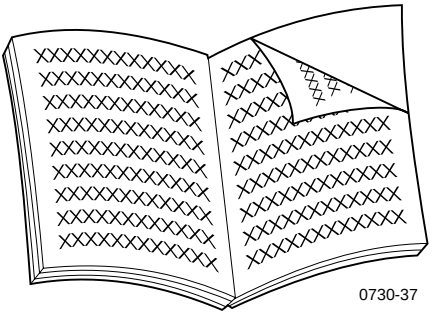
2. Re-insert the Universal Tray.

3. From the driver:
Under **2-Sided Printing,** select the binding preference *how the page turns*.

a. Long-Edge binding or **Flip on long edge,** where Landscape orientation is **(a)** and Portrait orientation is **(b)**.

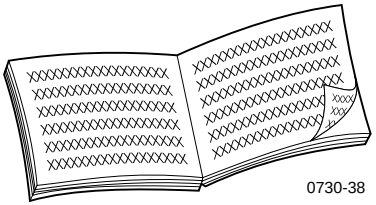


(a)

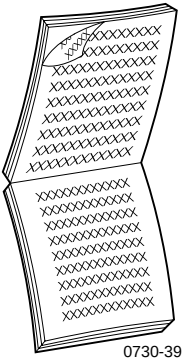


(b)

b. Short-Edge binding or **Flip on short edge,** where Landscape orientation is **(a)** and Portrait orientation is **(b)**.



(a)



(b)

4. Send the job to the printer. Refer to *Printing* in the *Advanced Features and Troubleshooting Manual.*

Manual 2-Sided Printing

Manual 2-sided printing can be done from any Universal Tray or the Multi-Sheet Bypass Feeder (MBF).

Media Specifics

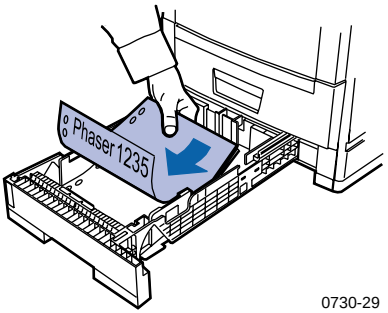
- Use only 75 - 105 g/m^2 (20 - 28 lb. bond) paper.
- When printing from a paper tray, use only laser bond paper for manual 2-sided prints.
- For opacity and feed reliability, use laser paper that is 90 g/m^2 (24 lb. bond) paper.
- Use the Multi-Sheet Bypass Feeder (MBF) for manual 2-sided printing on specialty media like light card stock of 105 g/m^2.
- 2-sided printing on specialty media can shorten the life of printer components.
- For best results, do not use heavy toner coverage on Side-1 of a manual 2-sided print. Increase the top margin on Side-1 to at least 12 mm (or 0.5 in.).

Printing Side 1

Note

For a multi-page document, print **odd-numbered pages for Side 1.** (This may not be available in all applications.)

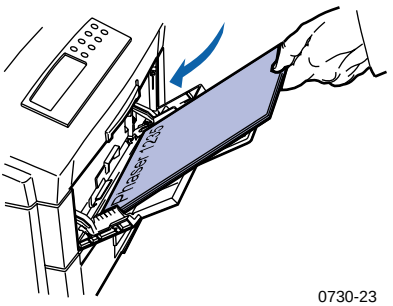
1. **From a tray:**
   a. Insert paper with the first **side to be printed *face-down.***
   b. Adjust the width and length guides to match the size of your paper.



0730-29

From the MBF:

   a. Load paper with the first **side to be printed *face-up.***
   b. Adjust the Multi-Sheet Bypass Feeder (MBF) guides to fit the width of your paper.


0730-23

2. Set the front panel to match loaded media type.
   a. Press the **Menu** buttons to scroll to **Tray.**

b. Press the **Item** buttons to scroll to **Tray 1 Type** (if loading Tray 1) or **MBF Type** (if loading MBF).

c. Press the **Value** buttons to select the options listed on *page 24* for **Tray 1 Type**. See *page 28* for **MBF types.**

d. Press **Enter** to save your selection.

3. If printing from MBF, use the **Item** buttons to scroll to **MBF Size.**

   a. Scroll with the **Value** buttons to select the appropriate size.

   b. Press **Enter** to save your selection. See *Supported page sizes and print area* on page 18. (If printing from a Universal Tray, paper size is automatically detected from the tray settings.)

4. Press the **On-line** button to exit the Menu System.

5. In the software driver, select the appropriate size, type and source.

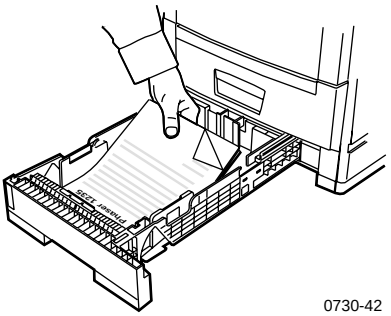
6. Remove your prints from the Face-up output bin.

Printing Side 2

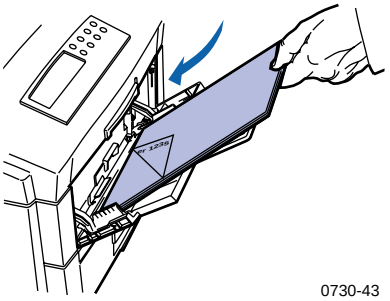
Note

For a multi-page document, print **even-numbered pages for Side 2.** (This may not be available in all applications.)

1. **From a tray:** Insert paper with the **second side to be printed *face-down.*** Adjust the width and length guides to match the paper size. This example shows letterhead paper.



From the MBF: Load the **second side to be printed *face-up.*** Adjust the width and length guides to match the paper size. This example shows letterhead paper.



2. Set the Front Panel to match the loaded media type.
   a. Press the **Menu** buttons to scroll to **Tray.**
   b. Press the **Item** buttons to scroll to **Tray 1 Type** (if loading Tray 1) or **MBF Type** (if loading MBF).

c. Press the **Value** buttons to select the options listed on *page 24* for **Tray 1 Type**. See *page 28* for MBF types.

d. Press **Enter** to save your selection.

3. If printing from MBF, press the **Item** buttons to scroll to **MBF Size.**

   a. Scroll with the **Value** buttons to select the appropriate size.

   b. Press **Enter** to save your selection. See *Supported page sizes and print area* on page 18. (If printing from a Universal Tray, paper size is automatically detected from the tray settings.)

4. Press the **On-line** button to exit the Menu System.

5. In the software driver, select the appropriate size, type and source.

6. Remove your prints from the Face-up output bin.

Troubleshooting Print Quality Problems

To reduce possible print problems:

- Maintain a stable temperature and relative humidity for the printer.
- Use only the media recommended for this printer; see *page 5*.
- Align the paper edge guides in the paper tray to fit the media.
- Protect the imaging drum from prolonged exposure to direct light.

Note

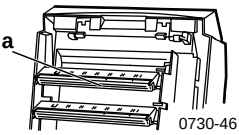
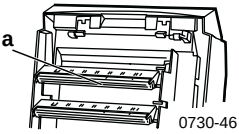
Also observe the procedures for cleaning the printer and adjusting the Color Balance outlined in *Cleaning the Printer* in the *Advanced Features and Troubleshooting Manual* available on the CD-ROM.

If the information provided in this section does not solve your print problem, refer to *Getting Help* on page 55.

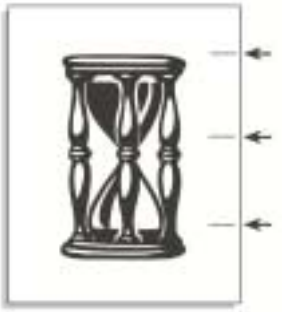
Print Defects and Potential Remedies

Print Quality Problem	Common Causes	Potential Remedies
Background Smudges Unwanted black and/or colored or shaded areas that appear on the page. 0730-44	■ Printer not correctly set to the proper media type. ■ The printer is exposed to direct sunlight. ■ Toner is on fuser roll. ■ If the problem occurs in one color, an imaging drum may be damaged.	■ Set the printer driver and front panel to the appropriate media type. ■ Place the printer in a location out of the sunlight. May need to replace the imaging drum of that color. ■ Print blank pages until smudges disappear. ■ Replace imaging drum of that color.

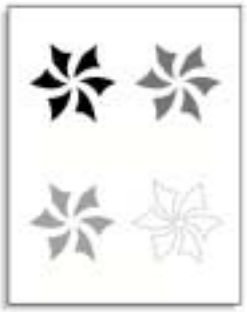
Print Defects and Potential Remedies

Print Quality Problem	Common Causes	Potential Remedies
Dark Vertical Lines Black or colored vertical lines that streak the page. 0730-45	■ A light emitting diode (LED) bar is dirty.	■ Clean each of the LED bars **(a)** using the cleaning pad supplied with the toner cartridge, or an alcohol wipe from the Cleaning Kit.  0730-46
	■ If the problem occurs in **only one color,** an imaging drum may be scratched, dirty or damaged.	■ Remove and inspect the imaging drum of the problem color. Replace it if any scratches or damage are visible.
	■ Dry toner is on the Fuser rollers.	■ Print blank pages until the lines disappear. If they do not disappear, replace the Fuser.
Light Vertical Lines Light areas (without color or the wrong color) that streak the page. 0730-47	■ An LED bar is dirty.	■ Clean each of the LED bars **(a)** using the cleaning pad supplied with the toner cartridge, or an alcohol wipe from the Cleaning Kit.  0730-46
	■ If the problem occurs in **only one color,** an imaging drum may be scratched, dirty or damaged.	■ Replace the corresponding imaging drum.

Print Defects and Potential Remedies

Print Quality Problem	Common Causes	Potential Remedies
Repeating Defects Marks recur uniformly at any of these evenly spaced intervals:		
■ Every 3.98 inches or 115 mm of any color	■ The fuser may be damaged.	■ Remove and inspect the fuser; if damaged, replace with a new fuser.
■ Every 3.68 inches or 94 mm of same color	■ One of the rollers in an imaging drum are scratched or damaged.	■ Replace the corresponding imaging drum.
■ Every 2.00 inches or 50 mm of same color	■ One of the rollers in an imaging drum are scratched or damaged.	■ Replace the corresponding imaging drum.
■ Every 2.28 inches or 58 mm of same color	■ The transfer belt may be damaged.	■ Replace the transfer belt.
■ Every 1.75 inches or 44 mm of the same color  0730-49	■ One of the rollers in an imaging drum are scratched or damaged.	■ Replace the corresponding imaging drum.

Print Defects and Potential Remedies

Print Quality Problem	Common Causes	Potential Remedies
Back-Side Contamination Toner has been deposited on the non-imaged side of a print.  0730-50	There is excess toner in the paper path: ■ The fuser has contamination.	To clean up any residual toner, print blank sheets of paper. ■ If the problem persists, inspect the fuser for excess toner and replace.
Color Misregistration Color has shifted outside of the designated area or has been superimposed over another color area. 0730-51	An LED bar may be misaligned. ■ An imaging drum may be misaligned. ■ The transfer belt may be misaligned.	Open the printer's top cover and slowly close it; the printer performs an automatic registration. ■ Reseat the Imaging Drum of the color that has misregistered. ■ Reseat the Transfer Belt if all the colors have misregistered. Replace if necessary.

Clearing Paper/Media Jams

Preventing media jams

- To reduce the frequency of paper and transparency jams, use only Xerox Phaser paper, Xerox Phaser Color Labels, and Xerox Phaser 35 Series Transparencies. See page 5 for ordering supplies.
- Fan media prior to loading in the Universal Tray or Multi-Sheet Bypass Feeder.
- For supported media sizes refer to *page 22*.
- For proper media loading instructions refer to *page 30*.

What causes a media jam?

Media jams occur most often in these conditions:

- Incorrect media type selection in printer driver.
- The media does not meet specifications.
- The media is moist, bent, or folded.
- The media is not loaded properly.
- The Universal Tray is not adjusted properly for the media (side and rear guides).
- The Universal Tray is overfilled. Make sure media does not exceed tray capacity.
- The loaded media size is not supported by the paper tray.
- The media weights are not consistent with paper tray and Face-up output bin media capacities.

Clearing Media Jams

When a media jam occurs, printing stops and a message is displayed on the front panel. The message indicates the location of the jam and the corrective action. More than one sheet of media may be jammed in the paper path. Refer to the labels on the printer to clear the jam.

Caution

Do not touch the printer's Fuser rollers; they may be hot.

After the jam is cleared, the print job completes.

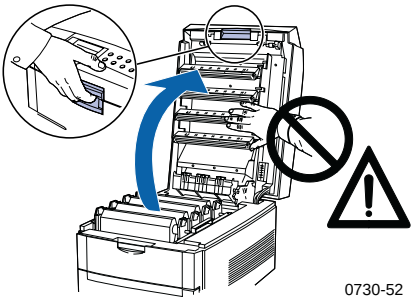
Note

Inside the printer, all handles and points of user interaction for removing jammed media are **green.**

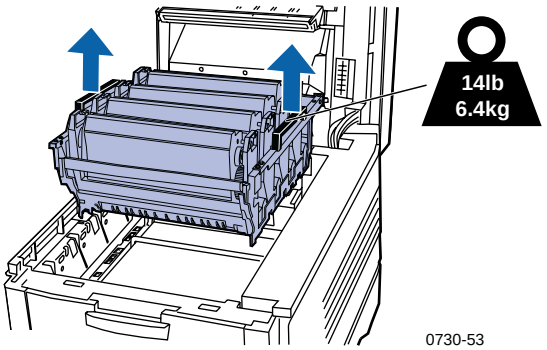
Area A Jam

Follow these steps to clear a jam from Area A:

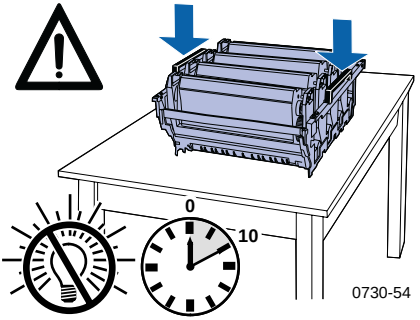
1. Open the top cover. Avoid touching or handling the LED bars.



2. Using the green handles, lift out the toner cartridge/imaging drum assembly.



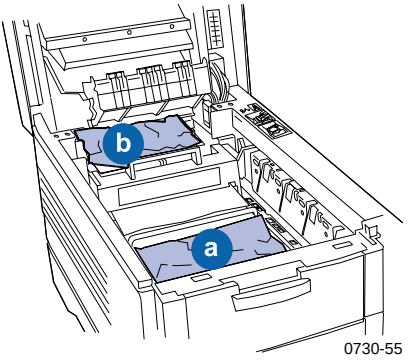
3. Place the toner cartridge/imaging drum assembly on a flat surface. Avoid exposure to light for more than 10 minutes.



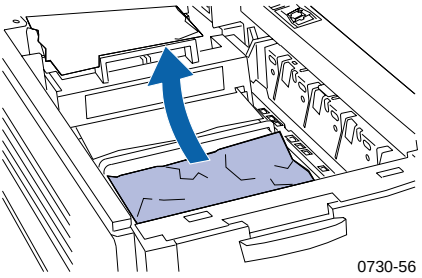
Caution

Be careful not to place the imaging drums (or the bottom of the toner cartridge/imaging drum assembly) on the edge of the table or an uneven or rough surface.

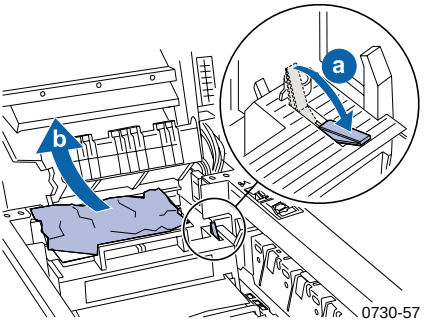
4. Locate the jammed media in the transfer belt area **(a)** and the fuser area **(b)**.



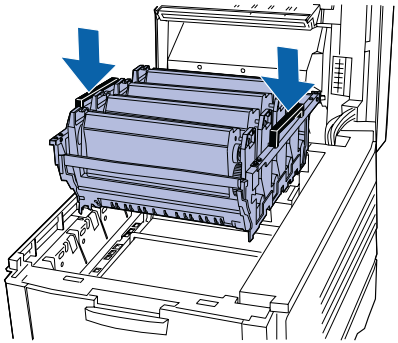
a. Remove the jammed media from the transfer belt area.



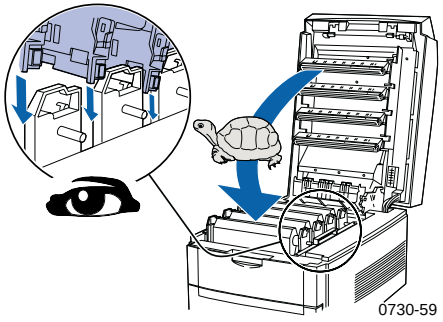
b. Remove the jammed media from the fuser area by **(a)** pressing down the release lever, and **(b)** pulling out the media. If necessary, remove the fuser. Return the release lever to its original position when finished.



5. Replace the toner cartridges/imaging drum assembly.



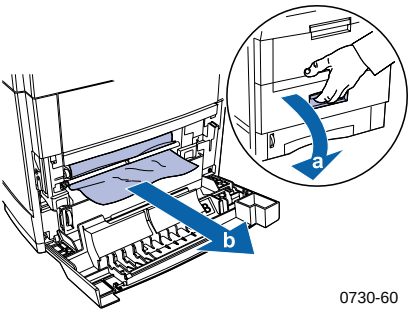
6. Slowly lower the top cover into place.



Area B Jam

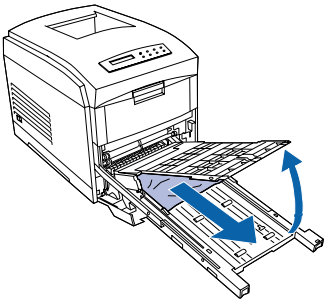
Follow these steps to clear a jam from Area B:

1. Open the front cover **(a)** and remove jammed paper or transparencies **(b)**.



0730-60

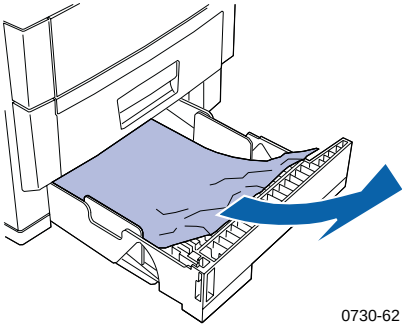
2. If the optional duplex unit is installed, pull it out until it stops. Lift the lid, remove the jammed paper, then reinsert the duplex unit.



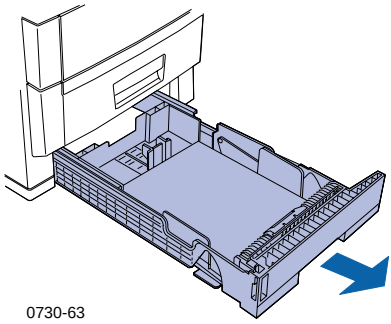
0730-61

3. Close the front cover.

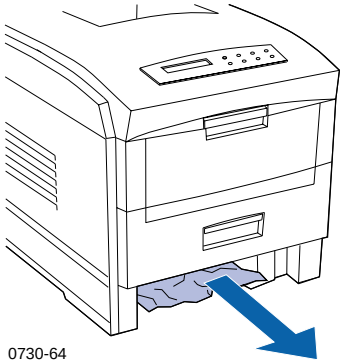
4. Pull to open the Universal Tray and remove any jammed paper or transparencies.



5. Remove the Universal Tray from the printer.



6. Remove any jammed paper or transparencies.



7. Reinsert the Universal Tray.

Getting Help

Refer to the following resources for information about your printer.

Printer CD-ROM

- *Phaser 1235 Color Printer User Guide*
- *Advanced Features and Troubleshooting Manual*
- *Setup Guide* poster
- Printer drivers
- Driver Installers (Mac, Windows, OS/2)
- Read Me release notes
- Internet Services Help (HTML documentation)
- CentreWare Font Download Utility
- Disk Generating Utility (creates floppy disks of the drivers)
- Driver Update Utility
- Font Manager
- Adobe Acrobat Reader
- Adobe Type Manager (ATM)

Xerox web site

www.xerox.com/officeprinting/

- Product and supplies information
- Downloading printer drivers
- Finding your local reseller
- Online documentation

infoSMART™ Knowledge Base

www.xerox.com/officeprinting/infoSMART/

- infoSMART™ is the same troubleshooting knowledge base used by Xerox Customer Support staff to provide the latest technical information on:
  - Application issues
  - Networking issues
  - Printer errors
  - Print-quality issues
  - Troubleshooting

Color Connection

www.colorconnection.xerox.com/

Color resource for tools and information to help you get the most from your color printer:

- Interactive tutorials and helpful tips for using your printer and favorite software applications.
- Easy access to online technical support.
- Customized features to meet your individual needs.

Other online services

Subscribe to email update notices:	www.colorconnection.xerox.com/
Technical Support	www.xerox.com/officeprinting/support

To find a local reseller

See www.xerox.com/officeprinting/contacts for the most updated information.

U. S.	**Canada**	**Outside U.S. and Canada**
1-800-835-6100	1-877-662-9338	Contact your local Xerox office for a list of local resellers

Customer Support Center

See www.xerox.com/officeprinting/contacts for the most updated information.

U. S. and Canada
1-800-835-6100

Argentina
11 4378 5485

Australia
1-800-811-177

Austria
01526 0404

Belgium
02 720 9602

Bolivia
13 469 090

Brazil
5511 3741 6366

Chile
800 200 600

China
10 6235 1230

Colombia
1 343 1943

Denmark
044 533 444

Eastern Europe
44 1908 68187

Ecuador
2 220 864

Finland
0203 206 30

France
01 69 86 8137

Germany
0180 525 3535

Hong Kong
25132655

India (South Asia)
91 80 554 3142

Italy
02 45 287 000

Japan
03 3448 3040

Korea
2 528 4661

Luxembourg
0400847

Mexico
5 628 1000

Middle East
44 1908 68187

Netherlands
040 267 0440

New Zealand
0 800 449 177

Norway
022 723 801

Peru
1 265 7328

Puerto Rico
1-800-835-6100

Singapore
1-800-356-5565

ASEAN
65 251 3006

Spain
0902 239 272

Sweden
08 299 071

Switzerland
01 212 2212

Taiwan
2 2757 1567

Thailand
2 645 4406

Turkey
0212 211 3650

UK
01 908 681 707

Venezuela
2 265 2625

Specifications

Material Safety Data Sheets
Color Toner Cartridges

Manufacturer: Xerox Corporation, Office Printing Business
P. O. Box 1000, Wilsonville, Oregon, 97070-1000
Preparation Date: July 26, 2000

Section 1 – Product Identification

Product Names	**Part Numbers**
Black Toner Cartridge	006R90293, 006R90303
Cyan Toner Cartridge	006R90294, 006R90304
Magenta Toner Cartridge	006R90295, 006R90305
Yellow Toner Cartridge	006R90296, 006R90306
Supplies Start up kit	1235SS

Product Use: XEROX Phaser ® 1235 Color Printers

SECTION 2 - INFORMATION ON INGREDIENTS

Ingredients (percent by weight)	**CAS number**
Polymer (85-95 percent)	Trade Secret
Wax (2-10 percent)	Trade Secret
Black toner: carbon black (2-10 percent)	1333-86-4
Cyan toner: cyan pigment (2-10 percent)	Trade secret
Magenta toner: magenta pigment (2-10 percent)	Trade secret
Yellow toner: yellow pigment (2-10 percent)	Trade secret

SECTION 3 - HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE: Toner powders are encased in a cartridge. Minimal exposure through inhalation or skin contact is expected when used as intended.

POTENTIAL HEALTH EFFECTS: Health effects from this product are expected to be negligible, when product is used as intended. See Section 11, Toxicology Information.

Immediate Effects:

INHALATION: Minimal irritation to respiratory tract, as for any non-toxic dust

SKIN: Not expected to cause skin irritation

EYES: Not expected to cause eye irritation

INGESTION: Not an expected route of exposure

Chronic Effects: None known

SIGNS AND SYMPTOMS OF EXPOSURE: Minor irritation to respiratory tract.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

SECTION 4 - FIRST AID MEASURES

INHALATION: Remove person to fresh air. Seek medical attention if symptoms occur.

EYES: If particles get into eye, flush thoroughly with water. Seek medical attention if symptoms occur.

SKIN: Wash thoroughly with water. Seek medical attention if symptoms occur.

INGESTION: Dilute stomach contents with several glasses of water. Seek medical attention if symptoms occur.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FIRE & EXPLOSION HAZARDS: Toner is a combustible powder. Like most organic powders, it can form explosive mixtures when dispersed in air.

EXTINGUISHING MEDIA: Water, dry chemical, carbon dioxide, or foam.

FIRE FIGHTING INSTRUCTIONS: Avoid inhalation of smoke. As for any fire, wear protective clothing and self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK: Sweep up or vacuum spilled toner and carefully transfer into sealable waste container. Sweep slowly to minimize generation of dust during clean up. If a vacuum is used, the motor must be rated as dust tight. A conductive hose bonded to the machine should be used to reduce static buildup. Clean up residue if necessary with soap and water. Wash or dry clean garments after removing loose toner.

SECTION 7 - HANDLING AND STORAGE

HANDLING: No special precautions, when used as intended.

STORAGE: Avoid high temperatures.

SECTION 8 - EXPOSURE CONTROL - PERSONAL PROTECTION

No special personal protection indicated, when used as intended in Xerox Phaser color printers.

THRESHOLD LIMIT VALUE (TLV): 10 mg/m^3 (total dust)

PERMISSIBLE EXPOSURE LIMIT (PEL): 15 mg/m^3 (total dust);
5 mg/m^3 (respirable dust)

SHORT-TERM EXPOSURE LIMIT (STEL): None established

CEILING LIMIT: None established

XEROX EXPOSURE LIMIT (XEL): 2.5 mg/m^3 (total dust);
0.4 mg/m^3 (respirable dust)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/ODOR: Black, blue, red, or yellow powders/faint odor

BOILING POINT: Not applicable

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: Not applicable

VAPOR DENSITY (Air = 1): Not applicable

VOLATILE: Not applicable

SOFTENING RANGE: 110-140 degrees F (43-60 degrees C)

MELTING POINT: Not available

SPECIFIC GRAVITY (Water = 1): Approximately 1

VAPOR PRESSURE (mm Hg): Not applicable

pH: Not applicable

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers

HAZARDOUS POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, toxic gases may be generated by thermal decomposition or combustion.

SECTION 11 - TOXICOLOGICAL INFORMATION

This material has been evaluated by Xerox Corporation. The toxicity data noted below is based on test results of similar toners.

Oral LD50: > 5 g/kg (rats), practically non-toxic

Dermal LD50: > 5 g/kg (rabbits), practically non-toxic

Inhalation LC50: > 5 mg/l (rats; 4 hour exposure), practically non-toxic

Inhalation LD50: > 20 mg/l (rats; calculated for 1 hour exposure), non-toxic per DOT

Eye Irritation: Non-irritating (rabbits)

Skin sensitization: Non-irritating (rabbits; human patch)

Human Patch: Non-irritating, non-sensitizing

Mutagenicity: No mutagenicity detected in Ames assay

Carcinogens: None present

Additional Information: The results obtained from a Xerox-sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1 mg/m^3) exposure level (i.e., the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25 percent of the animals at the middle (4 mg/m^3) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16 mg/m^3) exposure level. The findings are attributed to *lung overloading*, a generic response to excessive

amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with EPA testing protocol. The test toner was ten times more respirable than commercially available Xerox toner and would not be functionally suitable for Xerox equipment.

SECTION 12 - ECOLOGICAL INFORMATION

Aquatic 96 hour LC50: > 1000 mg/l (fathead minnows; rainbow trout)

SECTION 13 - DISPOSAL CONSIDERATIONS

These materials are not RCRA hazardous wastes as specified in 40 CFR 261. State and local waste disposal requirements, however, may be more restrictive. Dispose in accordance with all federal, state, and local regulations. Incinerate only in a closed container.

SECTION 14 - TRANSPORT INFORMATION

DOT: Not regulated.

SECTION 15 - REGULATORY INFORMATION

TSCA: All components of these toners have been manufactured in compliance with TSCA.

RCRA: TCLP metals below hazardous waste levels set by EPA.

CALIFORNIA PROPOSITION 65: Not regulated

NEW JERSEY TRADE SECRET REGISTRATION NUMBERS: (See Section 2: Ingredients)

Polymer: 80100252-5001P

Wax: 80100252-5012P

Cyan pigment: 80100252-5004P

Magenta pigment: 80100252-5011P

Yellow pigment: 80100252-5010P

CANADIAN WHMIS: These toners are not regulated as controlled products under the Workplace Hazardous Material Information System (WHMIS).

SECTION 16 - OTHER INFORMATION

NFPA 704: Health-0, Fire-3, Reactivity-0 (All colors)

Original preparation date: 7/26/00

Xerox MSDS #: A-0617, A-0618, A-0619, A-0620

Xerox Corporation
Office Printing Business
Environmental, Health & Safety
P.O. Box 1000
Mail Stop 60-512
Wilsonville, Oregon 97070

Printer information: 1-800-835-6100

MSDS information: (503) 685-4093

Transportation Emergency (Chemtrec): 800-424-9300

Material Safety Data Sheets
CleanTex® Alcopad

SECTION 1 – PRODUCT IDENTIFICATION

Trade name:	Part Number:
Alcopad	016-1595-00

Product identification numbers: 806B, 806C, 806H, 806T, 806Z, 806
Chemical name and synonyms: Isopropyl Alcohol
Chemical formula: $CH_2CH(OH)CH_3$
Emergency telephone numbers: CHEMTREC (Transportation): 1-800-424-9300
Product Use: Xerox Phaser® 1235 Color Printer

SECTION 2 – INFORMATION ON INGREDIENTS

Component CAS# percent OSHA PEL (ppm) ACGIL TLV (ppm)
Isopropyl alcohol 67-63-0 91.0 400 400
Deionized water 7732-18-5 9.0 NA NA

SECTION 3 – HAZARDS IDENTIFICATION

Product is distributed as a single-use, presaturated pad, in which all the liquid is absorbed by the applicator. Isopropyl alcohol is a flammable liquid. Eye contact will cause local irritation and burning sensations with possible injury if not removed promptly. Repeated or prolonged contact with skin may produce irritation and cause dermatitis. Exposure above TLV may cause irritation of respiratory tract and eyes along with headaches, dizziness and CNS effects. May be harmful if swallowed.
Carcinogenicity (OSHA/NTP/IARC/ACGIH): Not Listed.
Medical Conditions Aggravated by Exposure: Not Listed.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes, including under eyelids. Get Medical help.
SKIN CONTACT: Flush with water.
INHALATION: Remove to fresh air. Keep at rest. Restore and/or support breathing as needed. Get prompt Medical attention.
INGESTION: In the unlikely event of ingestion of a wiper, first aid measures should focus on removal of the object and preventing choking. Once removed, keep affected person at rest. Call physician immediately.

SECTION 5 – FIRE-FIGHTING MEASURES

FLASH POINT (TCC): 56 degrees F
FLAMMABLE LIMITS (PERCENT BY VOLUME): LEL: NA UEL: NA
AUTOIGNITION TEMPERATURE degrees F (degrees C): NA
EXTINGUISHING MEDIA: Isopropyl-alcohol fires may be extinguished using carbon dioxide, dry chemical or alcohol foam. Water may be used to cool containers exposed to the fire.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Isopropyl alcohol may release vapors which may ignite at or above flash point.
NFPA RATING: HEALTH (1)
FLAMMABILITY (3)
REACTIVITY (0)
Formulation is classified as an OSHA Class IB Flammable Liquid

NA = Not Available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Since the isopropyl-alcohol solution is completely absorbed by the applicator and the amount of isopropyl alcohol per applicator is small, the chance of a significant spill occurring is small. In the event however, that a significant amount of liquid is released, ventilate the area, especially low areas where vapors may collect, and remove all sources of ignition. Cleanup personnel need protection against liquid contact and vapor inhalation.

SECTION 7 – HANDLING AND STORAGE

Store in a clean, cool, ventilated area away from sources of ignition and oxidizing agents. Handle and store in a manner suitable for an OSHA class IB Flammable Liquid. Electrical services must meet applicable codes. Use non-sparking tools.

SECTION 8 – EXPOSURE CONTROL – PERSONAL PROTECTION

Provide ventilation to maintain TLV. Use non-sparking tools. Avoid inhalation of vapors, contact with eyes and repeated or prolonged contact with skin. Do not take internally.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (80 degrees C) (180 degrees F)
PERCENT VOLATILE BY VOLUME @ 25 degrees C: 100
VAPOR PRESSURE (mmHg @ 25 degrees C): 33
EVAPORATION RATE (BUTYL ACETATE-1) >1
VAPOR DENSITY (AIR = 1): <1
FORM: liquid
PERCENT SOLUBLE IN WATER @ 25 degrees C: 100
ODOR: alcohol
SPECIFIC GRAVITY (G/CC @ 25 degrees C): 0.79
APPEARANCE OF LIQUID: clear

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITIES / CONDITIONS TO AVOID: Caustics, amines, alkanolamines, aldehydes, ammonia, strong oxidizing agents and chlorinated compounds.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide

SECTION 11 – TOXICOLOGICAL INFORMATION

Not Available

Section 12 – Ecological Information

Not Available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Follow Federal, State and Local Regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT CLASSIFICATION: Not Regulated.
Proper Shipping Name:
Hazard Class:
UN Number:
Packing Group:
Hazard Labeling:

IATA / ICAO CLASSIFICATION: Not Regulated.
Proper Shipping Name:
Hazard Class:
UN Number:
Packing Group:
Hazard Labeling:

IMDG CLASSIFICATION: Not Regulated.
Proper Shipping Name:
Hazard Class
IMDG Page #
Packing Group:
Flash Point (degrees C):
Marine Pollutant:

SECTION 15 – REGULATORY INFORMATION

SARA TITLE III REPORTING:
Toxic Chemical (Section 313): Not Listed.
Extremely Hazardous Substance: Not Listed.
Section 302, 304, 311, 312)

Hazard Class:
Chronic Health: Yes
Acute Health: Yes
Fire Hazard: Yes
Pressure Hazard: No
Reactivity Hazard: No

TSCA INVENTORY STATUS: All components listed are on the TSCA inventory.

SECTION 16 – OTHER INFORMATION

The information provided herein is compiled from internal reports and data from professional publications. It is furnished without warranty of any kind, expressed or implied. It is intended solely to assist in evaluating suitability and proper use of the material and in implementing safety precautions and procedures. Employees should use this information as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials. All information used must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Prepared by:

CleanTex Products
33 Murray Hill Drive
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June 1997

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Tektronix

COLOR PRINTERS BY

XEROX

Printed on recycled paper

071-0730-00