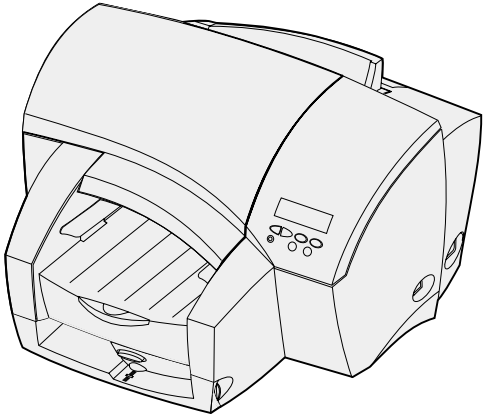
LEXMARK™

Lexmark J110

User's Guide



July 2000

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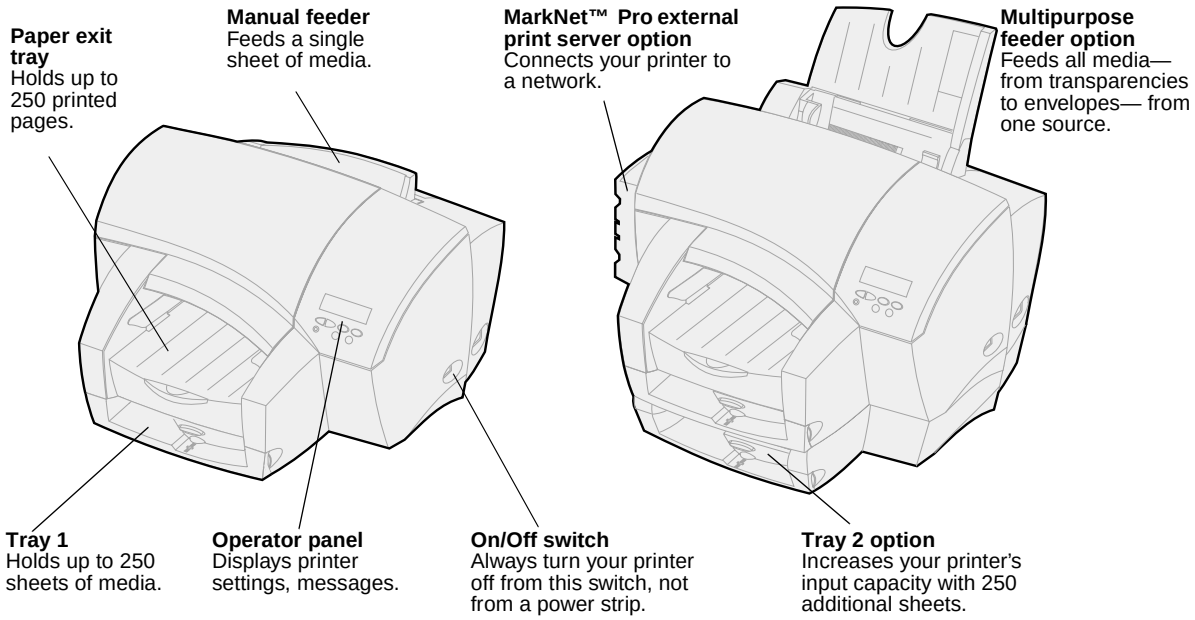
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1 Overview

Your Lexmark™ J110 printer is a compact color and monochrome printer with a PerfectFinish™ cartridge for printing great looking documents fast.

Base printer

Base printer with options



2 Printing from Windows

Your printer is set up, your Lexmark driver is installed — you are ready to print. Want to print transparencies, add a *Do Not Copy* watermark, make the colors on a chart more vibrant? It's easy to change printer settings for any job you print.

-FOR EXAMPLE-

Let's say your printer has plain paper loaded in tray 1, but you want to print a letter from tray 1 and an envelope from the manual feeder (or multipurpose feeder if installed).

1. Load letterhead in tray 1 and an envelope in the manual feeder (or multipurpose feeder) and change the corresponding operator panel settings.
2. Open the File Menu from your software application.
3. Choose Print (or Printer) Setup to open your printer driver.
4. In the Print Setup dialog box, click **Properties**, **Options**, or **Setup** (depending on the application).
5. Click the Setup tab.
6. From the Paper Type setting, select Letterhead.
7. In the Print dialog box, click **OK** to print your job.

Now print the envelope:

1. In the Print Setup dialog box, click **Properties**.
2. Click the Setup tab.
3. From the Paper Type setting, select the size envelope you want.
4. Change Orientation to Landscape.
5. In the Print dialog box, click **OK** to print your job.



If you need an explanation about a printer setting, help is just a click away:

- Click the Help box in the bottom right corner of any dialog box.
- Click the question mark at the top of any dialog box and then move your cursor to the setting you want to know about.
- Move your cursor to the setting in question and press F1 or right-click your mouse.

The following table shows what printer settings are available from your driver:

Choose this tab:	To:
Setup	Change print quality settings, adjust the color, select the number of copies, paper type, paper size, paper source, increase the dry time, or change orientation.
Print Style	Print a booklet, print a duplexed document, print multiple pages on a single page, or print a poster.
Watermark	Print a watermark.
Printer Configuration	Update any options you have added or removed, open the status window to monitor supplies, print blank pages, or turn off PerfectFinish.

3 Printing from a Macintosh computer

You installed your Lexmark driver — you're ready to print. Whether you are printing everyday documents, presentations or letters and envelopes, it's easy to change printer settings for any job you print.

-FOR EXAMPLE-

Your printer has plain paper loaded in tray 1, but you want to print a letter on executive-size paper from tray 1 and an envelope from the manual feeder (or multipurpose feeder if installed).

1. Select the job you want to print from your Macintosh application and open the File Menu.
2. Select Page Setup.
3. From Paper Size select Executive.
4. Click **OK** to close the Page Setup dialog box.
5. Go back to the File Menu and click **Print**.

Now print the envelope:

1. From the File Menu, select Page Setup.
2. From Paper Size select the size envelope you want.
3. Change Orientation to Landscape.
4. Click **OK** to close the Page Setup dialog box.
5. Go back to the File Menu and select Print.
6. From the pop-up menu, select Paper Handling.
7. From Paper Type/Quality select Envelope.
8. Click **Print**.

The following tables show what printer settings are available from your driver:

Choose this option from the Page Setup dialog box:	To:
General	Change page size, orientation or scaling.
Watermark	Print a watermark.

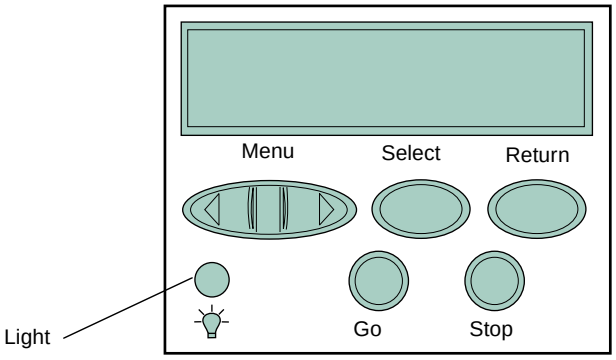
Choose this option from the Print dialog box:	To:
General	Change the number of copies.
Paper Handling	Change the paper source, dry time delay or printing order.
Paper Type/Quality	Change the paper type, turn PerfectFinish off or change a print quality setting.
Layout	Change how many pages per sheet to print, print a booklet or use manual duplex.
Color	Apply more vibrant color or match the color on your monitor.
Background Printing	Print your job in the background while you work on another job.
Installed Options	Update any options you have added or removed.

4 Using the printer operator panel

The operator panel has five buttons and one light. When the printer light is:

- **Off,** the printer is off
- **On,** the printer is on but idle
- **Blinking,** the printer is on and busy processing or there is a printer error

Operator panel buttons



Press **Go:**

- To return the printer to **Ready** if the printer is offline
- To clear error messages from the display
- To exit printer menus and return to **Ready**

Press **Stop:**

- To take the printer offline
- To stop the printer when the printer is busy processing or printing a job

Press **<Menu>:**

- To enter the menus (**>Menu** takes you to the first menu; **<Menu** takes you to the last menu)
- To scroll to the next menu, item in a menu or value

Press **Select:**

- To select the item listed on the second line of the display
- To save a menu item as the new default setting

Press **Return:**

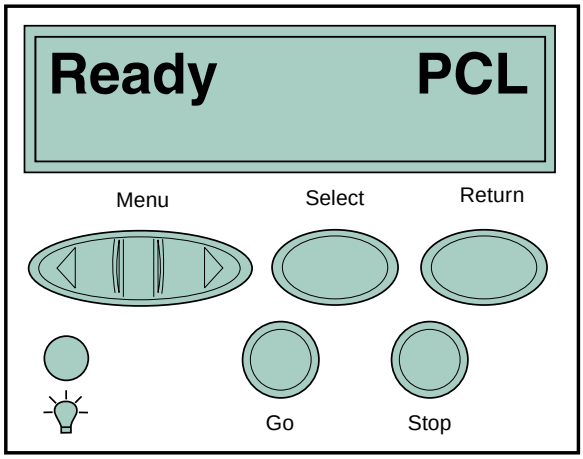
- To go back to the previous menu item or menu level

Printer messages

The operator panel displays three kinds of messages: status, attendance and service. For a complete list of messages, see **PRINTER MESSAGES**.

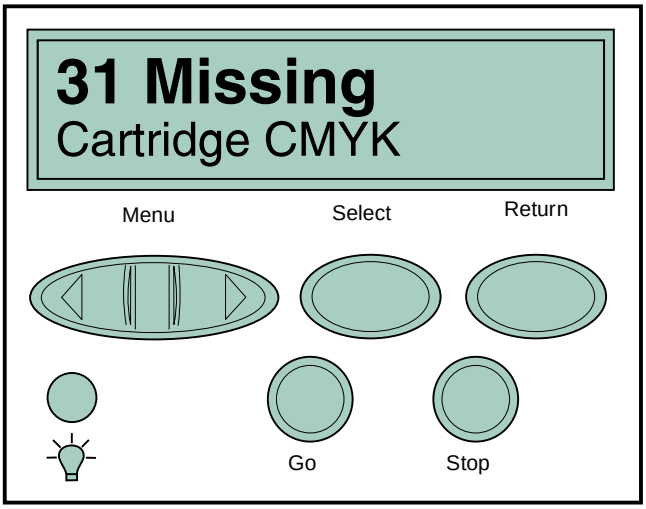
Status messages

Status messages tell you the current state of the printer. When **Ready** appears, the printer is ready to receive a job. When **Busy** appears, the printer is processing or printing a job or indicating a printer error. PCL indicates the printer language (PCL 3 emulation) being used.



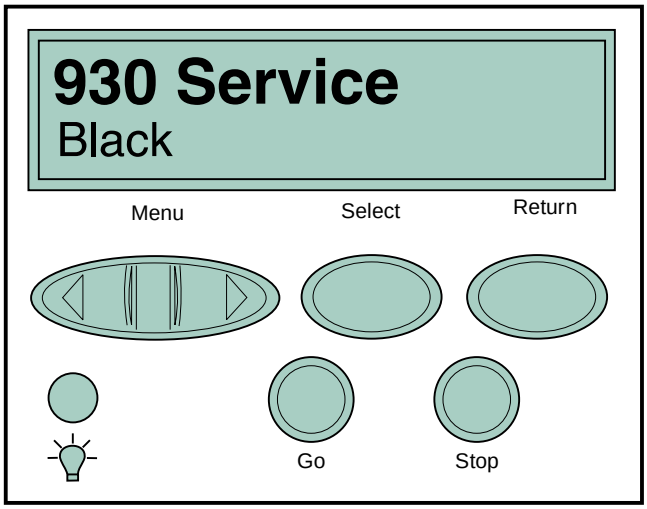
Attendance messages

Attendance messages alert you to a printer problem, such as a supply item running out.



Service messages

A service error indicates a printer failure and may require a service call.



5 Changing operator panel settings

Changing settings from the operator panel affects everyone who uses the printer. Changing settings from your software application or printer driver override everything except the Paper Size and Paper Type settings on the operator panel, but the new settings only apply to the job you are sending to the printer. If your print job requires reconfiguring the printer (i.e., printing on media that is different from what is loaded), change the operator panel settings *and* driver settings.

-FOR EXAMPLE-

Let's say you share the printer. It is configured with plain paper in tray 1, legal paper in tray 2 and transparencies in the multipurpose feeder.

You want to print a scanned image with the highest print quality from the multipurpose feeder.

1. Load Photo Paper in the multipurpose feeder.
2. Press **Menu>** until you see Paper Menu.
3. Press **Select**.

   Paper Source appears on the second line.
4. Press **Select**.
5. Press **Menu>** until you see MP Feeder on the second line of the display.
6. Press **Select**.

   An asterisk appears indicating that MP Feeder is the new default setting.
7. Press **Menu>** until Paper Type appears on the second line of the display.
8. Press **Select**.
9. Press **Menu>** until MP Feeder Type appears on the second line of the display.
10. Press **Select**.
11. Press **Menu>** until Photo Paper appears.
12. Press **Select**.

    An asterisk appears indicating that Photo Paper is the new default setting for the MP Feeder.
13. Press **Return** to go back to **Ready**.
14. In your printer driver, change the Print Quality setting to Best and Paper Type to Photo.
15. Send your job.



Remember that the printer is now configured for photo paper in the multipurpose feeder until you change it back to transparencies.

To restore the printer to the default settings:

1. Press **Menu>** until Utilities Menu appears.
2. Press **Select**.
3. Press **Menu>** until **F**actory Defaults appears.
4. Press **Select**.

   =Restore appears.
5. Press **Select**.

For a complete list of operator panel menus, see **PRINTER MENUS.**

6 Printing on special media

Besides printing great looking documents on a wide range of plain paper, you can also create posters, photo images for t-shirts, and photo cards.

Click these topics for instructions on printing special media jobs:

PRINTING A POSTER

PRINTING IRON-ON TRANSFERS

PRINTING PHOTO CARDS

7 Printing a poster

When you print a poster, the information is magnified to print on 4, 9, or 16 adjacent pages that you will assemble.

1. Open the File Menu from your software application.
2. Choose Print (or Printer) Setup to open your Windows printer driver.
3. In the Print Setup dialog box, click **Properties, Options,** or **Setup** (depending on the application).
4. Select the Print Style tab.
5. Select poster and poster size.
6. If you select Print Crop Marks, it is easier to match the edges of the printed pages when assembling the poster.
7. Select Pages to Print to print all of the pages or only selected pages.

   The pages are numbered from left to right, top to bottom. A graphic depiction of the poster appears on the screen to help you select which pages you want to print. If there are pages you don't want to print, deselect all of them, then click on the pages you do want to print.
8. Once you make your selections, click **OK**.
9. In the Print dialog box, click **OK** to print your job.

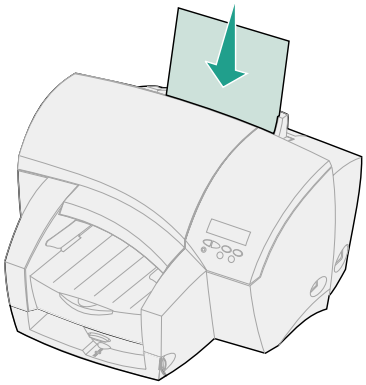

This feature is not available for Macintosh users.

8 Printing iron-on transfers

From Windows

Once you create your t-shirt design from Lexmark Shop Deluxe or other iron-on software package:

1. Load one iron-on transfer with the blank side facing up into the manual feeder (or multipurpose feeder).



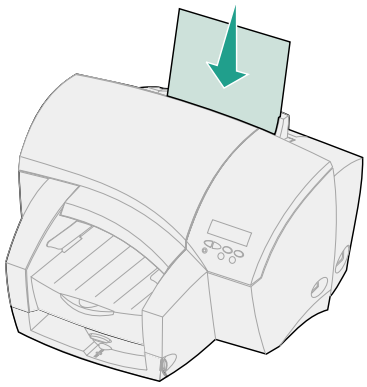
2. Open the File Menu from your software application.
3. Choose Print (or Printer) Setup to open your printer driver.
4. In the Print Setup dialog box, click **Properties, Options,** or **Setup** (depending on the application).
5. From Paper Type, select Iron On.
6. From Paper Size, select Letter or A4.
7. From Paper Source, select Manual Feeder (or Multipurpose Feeder).
8. Click **OK**.
9. Click **Print**.

Follow the instructions that came with the iron-on transfers to iron the image on a t-shirt.

From a Macintosh computer

Once you create your t-shirt design from Lexmark Shop Deluxe or other iron-on software package:

1. Load one iron-on transfer with the blank side facing up into the manual feeder (or multipurpose feeder).



2. Open the File Menu from your software application.
3. Select Page Setup.
4. From Paper Size, select Letter or A4.
5. Click **OK** to close the Page Setup dialog box.
6. Go back to the File Menu and select **Print**.
7. From the pop-up menu, select Paper Handling.
8. From Paper Source, select Manual Paper (or Multipurpose Feeder).
9. From the pop-up menu, select Paper Type/Quality.
10. From Paper Type, select Iron-On.
11. Click **Print**.

Follow the instructions that came with the iron-on transfers to iron the image on a t-shirt.

9 Printing photo cards

Create great looking photo cards using scanned images or ones you've created yourself.

From Windows

Once you create the image you want to print:

1. Load one card into the manual feeder (or up to 50 if you are using the multipurpose feeder).
2. Open the File Menu from your software application.
3. Choose Print (or Printer) Setup to open your printer driver.
4. In the Print Setup dialog box, click **Properties, Options,** or **Setup** (depending on the application).
5. From Paper Type, select Card Stock.
6. Under Paper Size, click Custom Forms.
7. Give your job a form name, for example, Photo Card.
8. Type in the form size you are using, for example, 4x6 in (102x152 mm) or 3x5 in (76x127 mm).
9. Select Add.
10. Select Done.
11. From Paper Size, select the custom form name you created, for example, Photo Card.
12. Click **OK**.
13. Select **Print**.



Remove each photo card as it exits the printer and let it dry thoroughly before stacking.

From a Macintosh computer

1. Load one card into the manual feeder (or up to 50 if you are using the multipurpose feeder).
2. Open the File Menu from your software application.
3. Select Page Setup.
4. From Paper Size, select Edit Custom Paper Size.
5. Select New and and give your job a name, for example, Photo Card.
6. Select Card from the Kind tab.
7. Select the units, inches or millimeters.
8. Select the width, for example 4 in (102 mm).
9. Select the height, for example 6 in (152 mm).
10. Select Save.
11. Select Done.
12. Click **OK** to exit Page Setup.
13. Go back to the File Menu and select Print.
14. From the popup menu, select Paper Type/Quality.
15. From Paper Type/Quality, select Card Stock.
16. Click **Print**.



Choosing the right media

Your printer's unique PerfectFinish cartridge gives you high-quality printing on a wide range of plain paper.

To print envelopes, index cards, and iron-on transfers, always print from the manual feeder or multipurpose feeder.

To ensure you get the best print quality and to reduce potential paper jams, we recommend you:

- Try out a small amount of media before buying large quantities.
- Use new, undamaged paper.
- Do not load wrinkled or curled paper.
- Do not mix paper sizes, weights, or types in the same paper source.
- Make sure the media is properly loaded in the tray or feeder.
- Do not remove a paper tray while the printer is printing or **Busy** is displayed on the operator panel.
- Feed one sheet of media at a time when using the manual feeder.
- Select the paper size and paper type from your printer driver.
- If you are printing iron-on transfers, use media designed to be used in inkjet printers.
- Remove each transparency or photo as it exits the printer and let it dry thoroughly before stacking.

11 Loading media

The following tables describe what kind of media, how much you can load, and which way it should face in the tray or feeder.

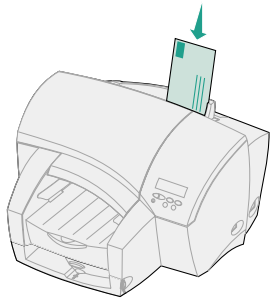
Click the following paper sources for instructions on loading media:

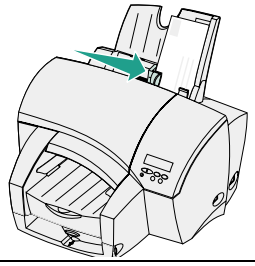
LOADING TRAY 1 OR TRAY 2

LOADING THE MANUAL FEEDER

LOADING THE MULTIPURPOSE FEEDER

If you are loading:

Source:	Load up to:	Make sure the:
Trays 1 and 2 *Do not* load envelopes in tray 1 or tray 2.	250 sheets of plain paper (20 lb, 75 g/m^2)	Recommended print side is face down.
	250 sheets of letterhead (20 lb, 75 g/m^2)	Logo is face down facing the back of the tray.
	250 sheets of coated paper (20 lb, 75 g/m^2)	Glossy side is face down.
	225 transparencies	Rough side is face down with the removable strip facing the back of the tray. Remove each transparency as it exits the printer.
	150 sheets of labels	Print side is face down.
Manual Feeder *Do not* use the manual feeder to print PerfectFinish jobs.	1 sheet of paper	Recommended print side is face up.
	1 sheet of letterhead	Logo is inserted first, face up.
	1 sheet of coated paper	Glossy side is face up.
	1 transparency	Removable strip is inserted first with the rough side face up. Remove the transparency as it exits the printer.
	1 label sheet	Print side is face up.
	1 index card	Index card is inserted vertically with print side face up.
	1 envelope	Envelope is inserted vertically with flap side down and stamp area as shown. 
	1 iron-on transfer	Blank side is face up.

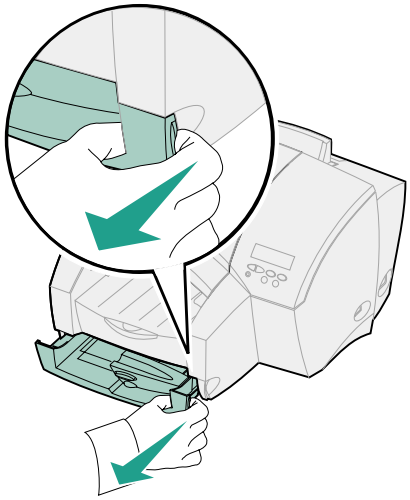
Source:	Load up to:	Make sure the:
Multipurpose Feeder *Do not* use the multipurpose feeder to print PerfectFinish jobs.	85 sheets of paper (20 lb, 75 g/m^2)	Recommended print side is face up.
	85 sheets of letterhead (20 lb, 75 g/m^2)	Logo is inserted first, face up.
	85 sheets of coated paper (20 lb, 75 g/m^2)	Glossy side is face up.
	50 transparencies	Removable strip is inserted first with the rough side face up. Remove transparencies as they exit the printer.
	50 label sheets	Print side is face up.
	35 index cards	Index cards are inserted vertically with print side face up.
	8 envelopes	Envelopes are inserted vertically with flap side down and stamp area in the top left corner. Do not use envelopes with clasps, windows, or self-stick adhesives. 
	8 iron-on transfers	Blank side is face up.

Loading tray 1 or tray 2

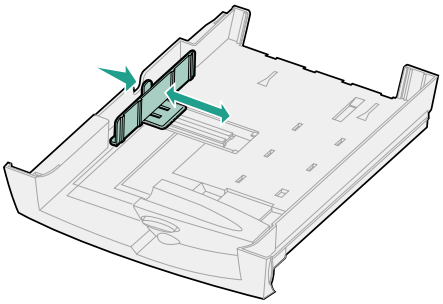
If you print on media that is different from what is loaded in tray 1 or tray 2, be sure to change the Paper Size and Paper Type settings in your printer driver *and* the operator panel before printing your job.

Both tray 1 and the optional tray are loaded the same way. *Do not* load envelopes in either tray; always load them in the manual feeder or multipurpose feeder.

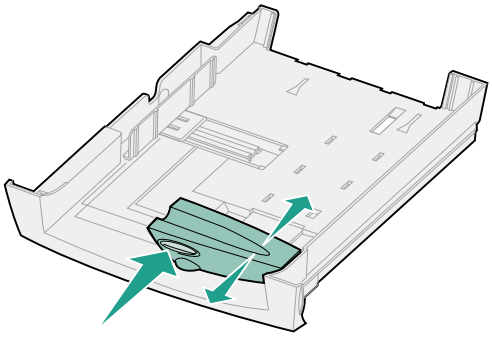
1. Hold the tray tab and pull the tray completely out of the printer.



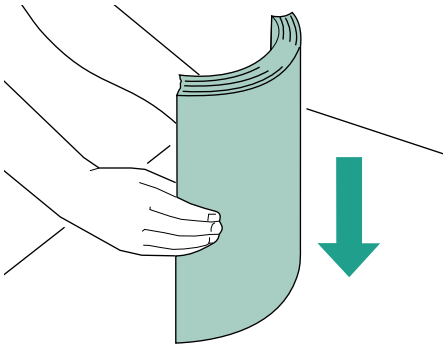
2. Squeeze the width guide and slide it all the way to the left.



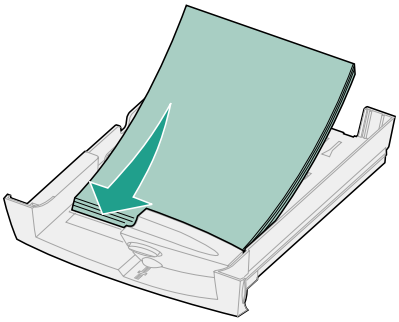
3. Press the length guide button and slide it against the paper size indicator line that matches the paper size you are loading.



4 Before loading media, flex the sheets back and forth to loosen them, and then fan them. Straighten the edges on a level surface.

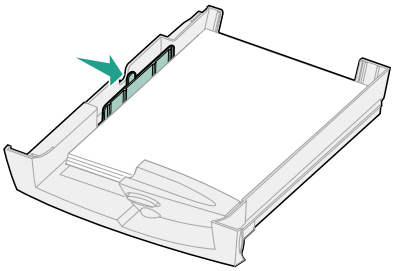


5 Place the paper in the tray, print side down.



Do not exceed the paper stack height indicator on the right side of the tray.

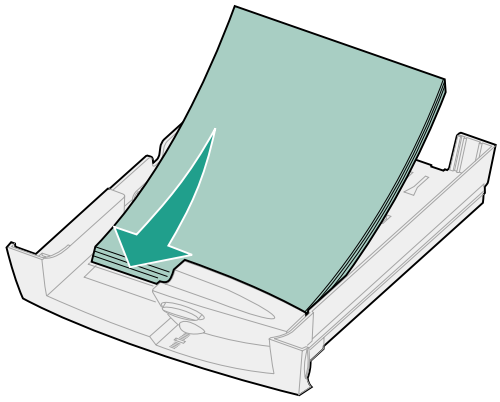
6 Squeeze the width guide and slide it to the right until it is lightly touching the edge of the paper stack.



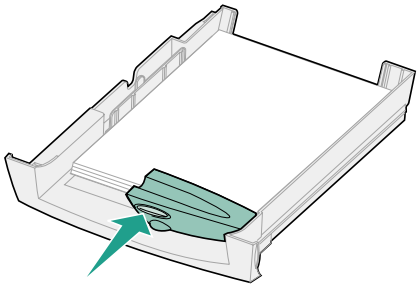
7 Reinstall the paper tray.

If you load non-standard size paper:

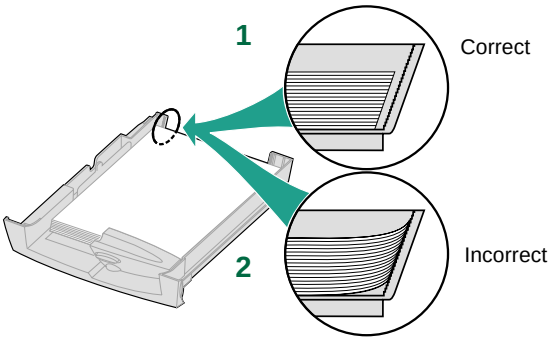
1. Place the paper, print side down, into the tray.



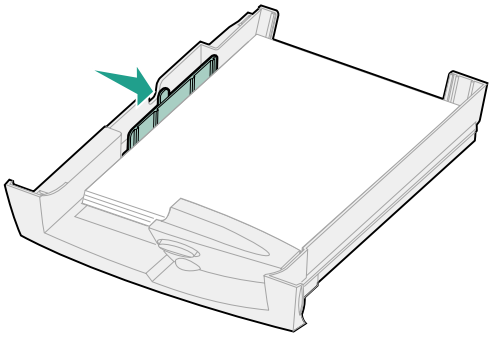
2. Press the length guide button to slide the guide against the bottom edge of the paper stack.



The paper should lie flat (**1**) in the tray. If the length guide is pushed too tightly against the paper, the paper bends (**2**) against the paper supports, causing a jam as it is pulled into the printer.

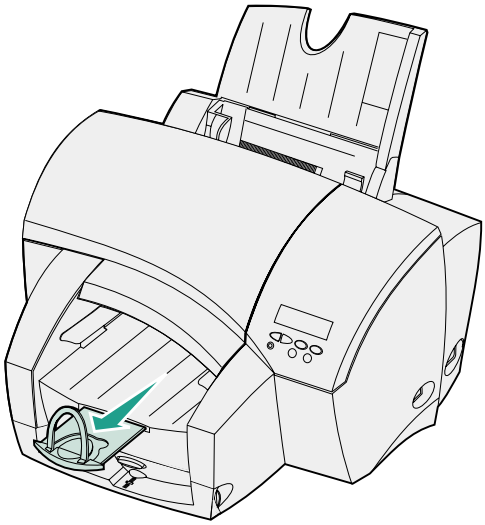


3 Squeeze the width guide and slide it to the right until it is lightly touching the edge of the paper stack.



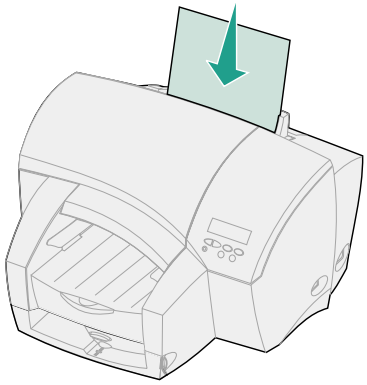
4 Reinstall the paper tray.

5 Fully extend the paper stop. Otherwise, paper may back up into the printer and cause a paper jam.



6 Send your job to print.

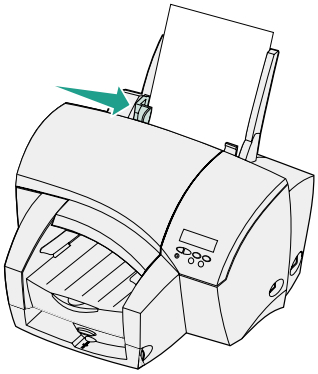
Loading the manual feeder



Use the manual feeder for loading single sheets of media. *Do not* use the manual feeder to print PerfectFinish jobs.

1. Place one sheet or envelope, with the print side facing you, against the right edge of the manual feeder.
2. Be sure to select the Paper Size and Paper Type settings in your printer driver before printing your job. If you are printing an envelope, change the Orientation to Landscape.
3. Print your job.

Loading the multipurpose feeder

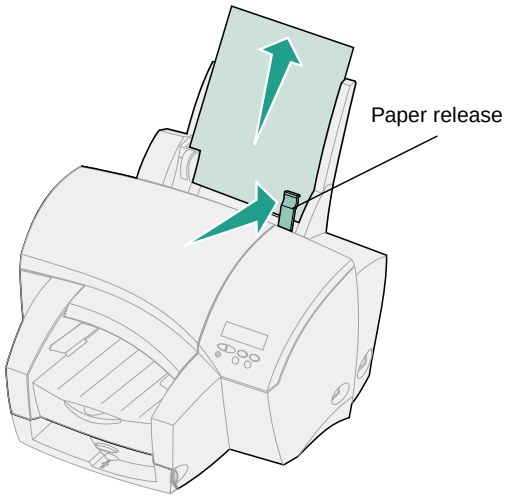


Use the multipurpose feeder for single or multiple page printing on paper, transparencies, labels, card stock, and envelopes. *Do not* use the multipurpose feeder to print PerfectFinish jobs.

1. Load the media against the right paper guide with the print side facing you.
2. Squeeze the left paper guide lever and slide it until it is lightly touching the edge of the media.
3. Be sure to select the Paper Size and Paper Type settings in your printer driver before printing your job. If you are printing an envelope, change the Orientation to Landscape.
4. Print your job.

To remove media from the multipurpose feeder:

1. Push the paper release lever toward the media and hold it.
2. Pull the media straight up.



Click the following printer messages for help solving media loading problems:

MESSAGE: CHANGE <INPUT SOURCE> <TYPE> <SIZE>

MESSAGE: CHECK TRAY X CONNECTION

MESSAGE: CHECK MPF CONNECTION

MESSAGE: INSERT DUPLEX PAGES & PRESS GO

MESSAGE: INSERT <TRAY>

MESSAGE: INSTALL TRAY X OR CANCEL JOB

MESSAGE: LOAD <INPUT SOURCE> <TYPE> <SIZE>

MESSAGE: LOAD MANUAL <TYPE> <SIZE>

MESSAGE: 34 SHORT PAPER

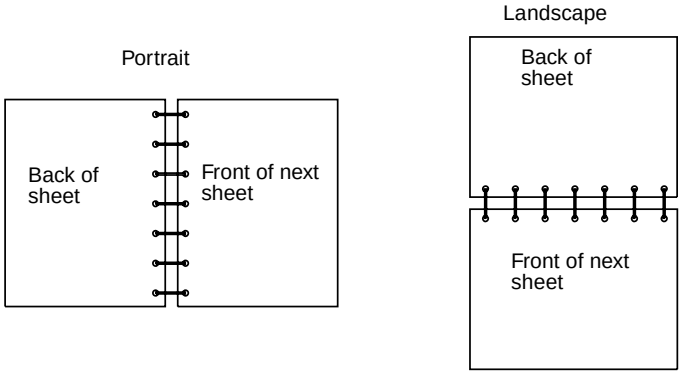
Click **CLEARING PAPER JAMS** for explanations of paper jam messages.

12 Manual duplex

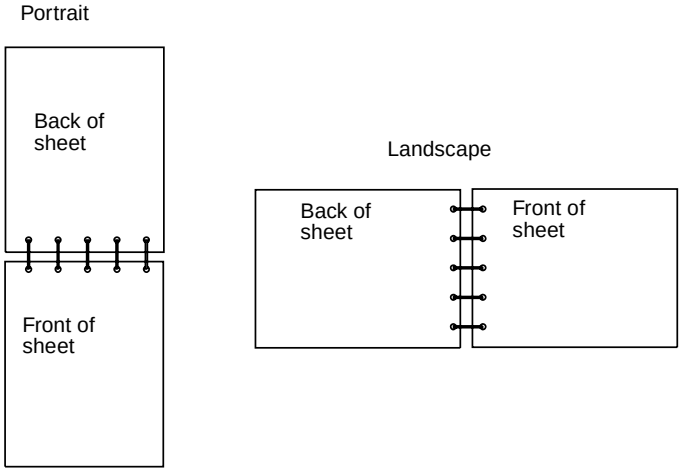
Printing on both sides of the paper reduces printing costs. When you select Duplex, your job is formatted to print every other page of the document first. Once those pages print, reinsert the document to print the corresponding back side to each page. Use tray 1 or tray 2 for duplex jobs.

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

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



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



From Windows

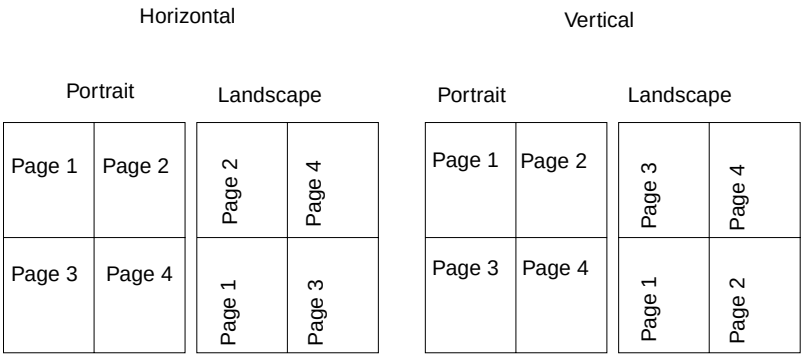
1. Open the File Menu from your software application.
2. Choose Print (or Printer) Setup to open your printer driver.
3. In the Print Setup dialog box, click **Properties**, **Options**, or **Setup** (depending on the application).
4. From Paper Source, select Tray 1 or Tray 2.
5. From Paper Size, select Letter.
6. From the Print Style tab, select 2-sided Printing.
7. Select Print Duplexing Instructions to print a diagram showing how to reinsert your partially completed print job.
8. Select Long-Edge or Short-Edge to correspond with the way you want your job bound.
9. Once you make your selections, click **OK**.
10. In the Print dialog box, click **OK** to print your job.
11. Once the first side of your job prints, refer to the diagram instructions when reinserting your print job.

From a Macintosh computer

1. Open the File Menu from your software application.
2. Select Page Setup.
3. From Paper Size, select Letter.
4. Click **OK** to exit Page Setup.
5. Go back to the File Menu and select Print.
6. From the pop-up menu, select Paper Handling.
7. From Paper Source, select Tray 1 or Tray 2.
8. From the pop-up menu, select Paper Type/Quality.
9. From Paper Type, select Plain Paper.
10. From the pop-up menu, select Layout.
11. From Advanced Layout, select Duplex Long Edge or Duplex Short Edge.
12. Select Print Instruction Sheet.
13. Click **Print**.

13 N-Up printing

Printing multiple page images on one sheet reduces printing costs. For example, if you choose 4 Up, the page images print on the page in this order:



From Windows

1. Open the File Menu from your software application.
2. Choose Print (or Printer Setup) to open your printer driver.
3. In the Print Setup dialog box, click **Properties, Options,** or **Setup** (depending on the application).
4. From the Print Style tab, select Multi-page.
5. From a drop-down list, select the number of page images you want to print on a single sheet.
6. Select Print Page Borders if you want the borders to print.
7. In the Print dialog box, click **OK** to print your job.

From a Macintosh computer

1. Open the File Menu from your software application.
2. Select Page Setup.
3. From Paper Size, select the paper size you are using.
4. Click **OK** to close the Page Setup dialog box.
5. Go back to the File Menu and select Print.
6. From the pop-up menu, select Paper Handling.
7. From Paper Source, select Tray 1 or Tray 2.
8. From the pop-up menu, select Paper Type/Quality.
9. From Paper Type, select Plain Paper.
10. From the pop-up menu, select Layout.
11. From Pages Per Sheet select the number of page images you want to print on a single sheet.
12. Select Borders if you want the borders to print.
13. Click **Print**.

14 When to replace supplies

You have several ways to keep tabs on printer supplies:

- Operator panel message
- Audible alarm
- Windows driver status window
- MarkVision status window
- Web page

Operator panel

Your printer displays a message on the operator panel when supplies are low, empty, or at end of life.

Paper	**Load <input source> <type> <size>**
Ink cartridge	**88 Cartridge Low** **89 Cartridge Empty**
PerfectFinish cartridge	**87 PerfectFinish Empty**
Printhead	**Life Warning**

Audible alarm

The printer beeps once to alert you when supplies need to be replaced. If your printer is attached to a network, you may want the printer to sound a continuous alarm to ensure other users are aware that a supply needs to be replaced. If the alarm is on, the printer stops processing jobs and waits until you press the **Go** button from the operator panel to resume printing. Change the printer setting to Continuous or turn off the alarm from the **SETUP MENU**.

Windows driver status window

The status window is a convenient way to monitor printer supplies if your printer is connected to a network. The window runs minimized at the bottom of your computer screen and alerts you when paper, ink cartridges, PerfectFinish cartridges, and printheads are low or need to be replaced.

To use the status window, make sure bidirectional support is installed from the *Drivers, MarkVision and Utilities* CD.

MarkVision status window

If you have a MarkNet external printer server attached to your printer, you can use MarkVision's remote operator panel, which mirrors the printer operator panel, to monitor when supplies need to be replaced.

Web page

If your printer is connected to a network, you can view the menu settings page from your computer. From your Web browser, type your printer's IP address in the Address box and press Enter. This takes you to a Web page where you can view the status of printer supplies.

15 Replacing an ink cartridge

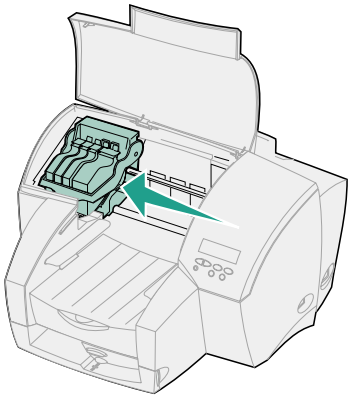
Your printer alerts you with a beep and a **88 Cartridge Low** message (C-Cyan, Y-Yellow, M-Magenta, K-Black) on the operator panel display when the indicated ink cartridge is getting low on ink. If the ink low alarm setting is turned off, you still see the operator panel message.

If you are using the status window or MarkVision, you can monitor the ink levels for each ink cartridge from your computer screen. The status window alerts you when an ink cartridge is getting low.

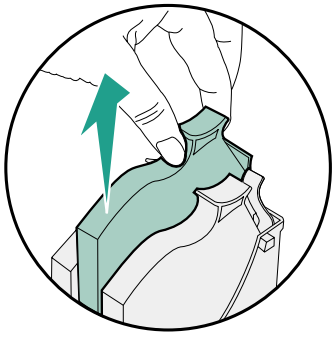
When a **89 Cartridge Empty** message appears, the printer stops printing until you replace the indicated ink cartridge.

1. Open the printer front cover.

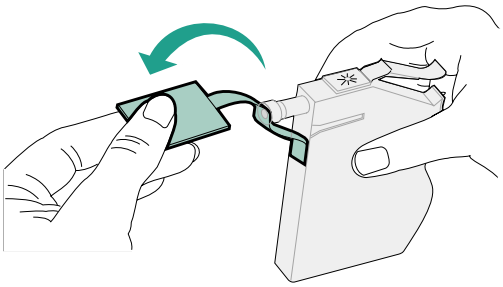
   The carrier moves to the load position at the far left.



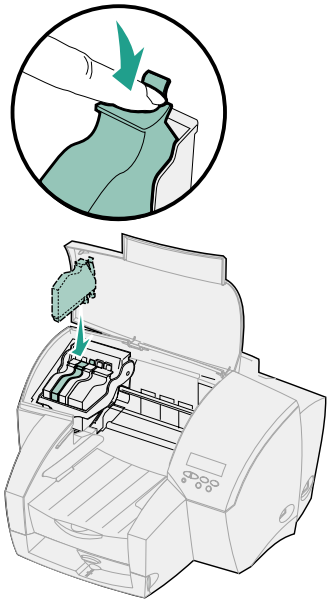
2. Squeeze the rear latch of the ink cartridge you are replacing and lift it up and out of the printer.



3 Remove the new ink cartridge from its packaging and pull off the tape.



4 Insert the ink cartridge into the corresponding printhead slot and push down on the cartridge until it is securely in place. Avoid touching the release tab on the cartridge or it will pop out of the printhead.



5 Close the front cover.

To read more about ink cartridge messages, just click the message:

MESSAGE: 31 DEFECTIVE INK CARTRIDGE

MESSAGE: 31 MISSING CARTRIDGE XXXX

MESSAGE: 32 UNSUPPORTED CARTRIDGE

MESSAGE: 88 CARTRIDGE LOW

MESSAGE: 89 CARTRIDGE EMPTY

MESSAGE: CARTRIDGE LIFE EXPIRED

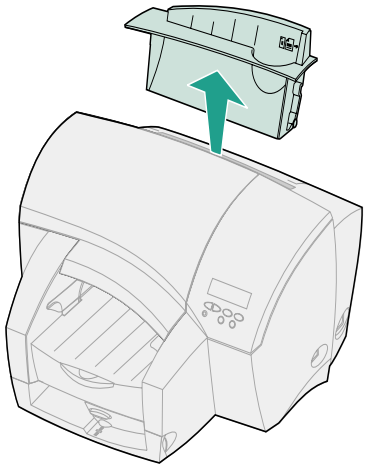
MESSAGE: CARTRIDGE LIFE WARNING

16 Replacing PerfectFinish

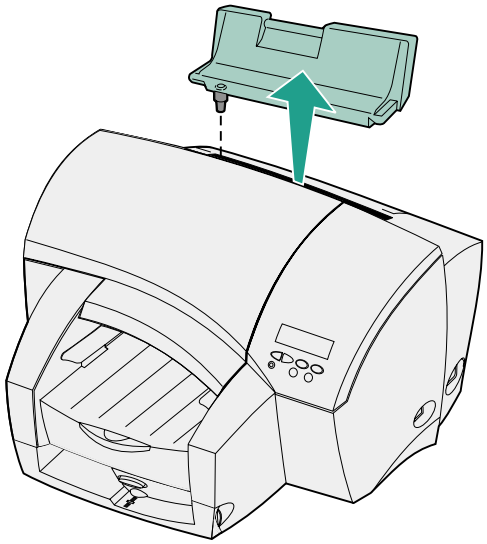
Your printer alerts you with a **87 PerfectFinish Empty** message on the operator panel display (or, if you are using the status window or MarkVision, the message appears on your computer screen).

The printer stops printing until you replace the PerfectFinish cartridge.

1 Remove the manual feeder (or multipurpose feeder if it is installed).

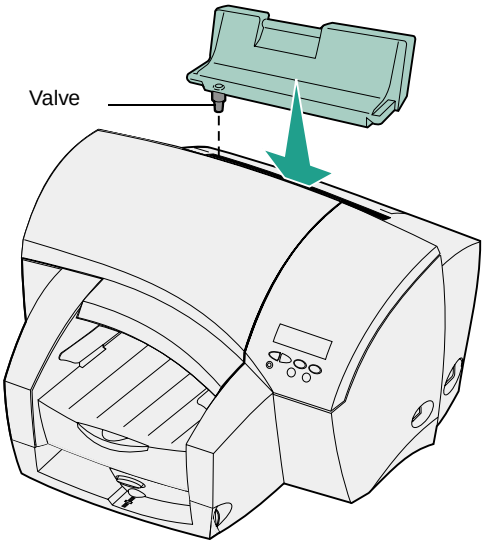


2 Grip the PerfectFinish cartridge and firmly pull it out of the printer.

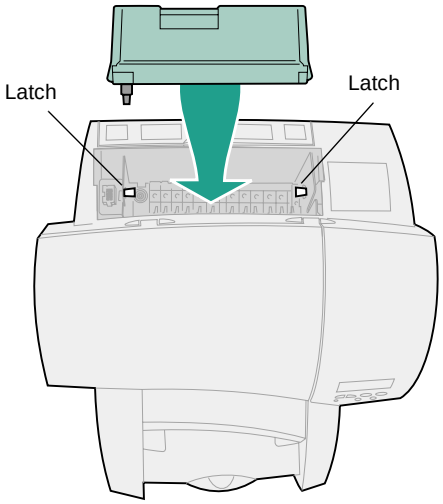


3 Remove the new PerfectFinish cartridge from its packaging.

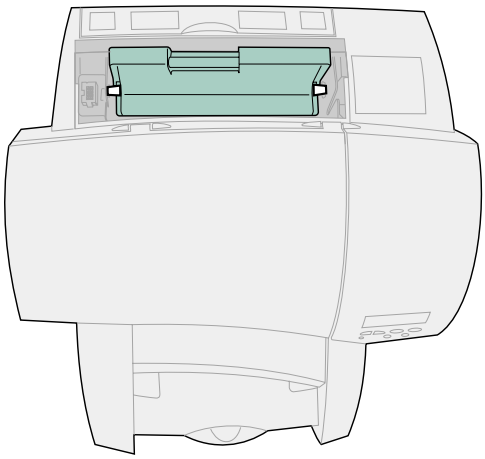
4 Hold the PerfectFinish cartridge so that the valve is on the left side.



5 Align the cartridge with the latches inside the printer.



6 Lower the cartridge until the latches snap over the cartridge as shown.



7 Reinstall the manual feeder (or multipurpose feeder).

The printer requires several minutes to warm up. After it completes its internal tests, the **Ready** message appears on the operator panel.

If you do not replace the PerfectFinish cartridge, you must press **Go** each time you print a job. Remember, you lose the print quality of coated paper until you replace the PerfectFinish cartridge.

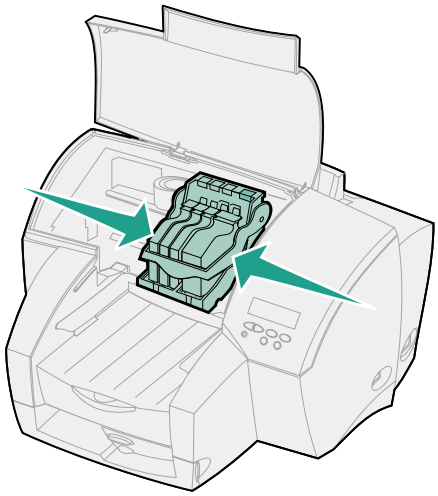
17 Replacing the printheads

Your printer alerts you with a **Cartridge Life Warning** message on the operator panel display when the indicated printhead needs to be replaced.

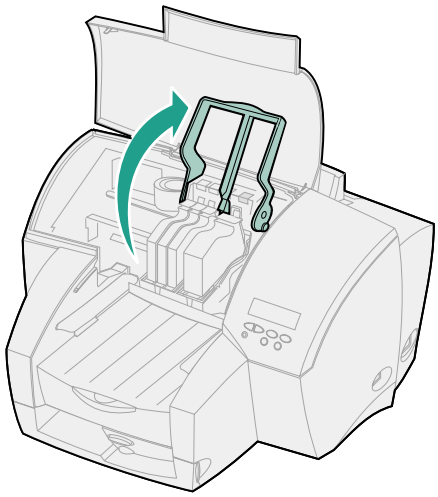
If you are using the status window or MarkVision, you can monitor printhead life from your computer screen. The status window alerts you when the printhead needs replacing.

1. Make sure the printer is turned on.
2. Press **Menu>** until you see the Utilities Menu**.**
3. Press **Select.**
4. Press **Menu>** until you see Change Printhead.
5. Press **Select**.
6. Open the printer front cover.

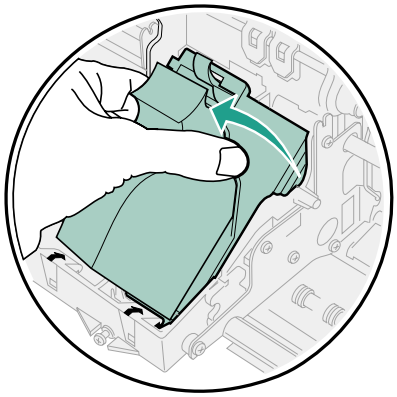
   The carrier moves to the load position at the center of the printer.



7 Lift the carrier handle to unlatch the printhead from the carrier.



8 Grip the the printhead and pull it up and out.

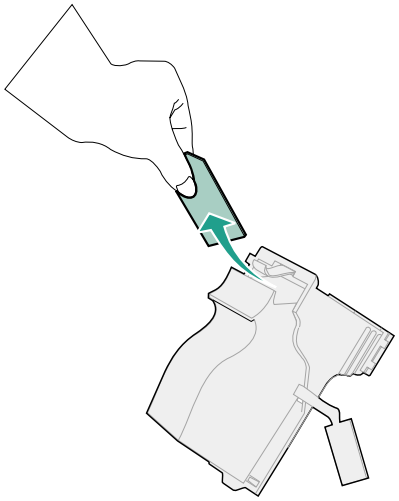


9 Discard both the printhead and the ink cartridge(s).

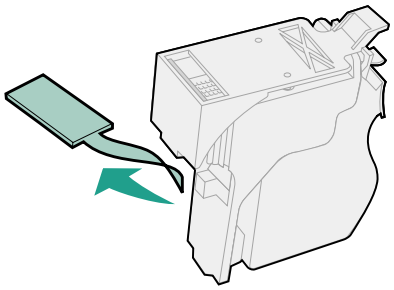
Do not reuse the ink cartridges, even if they are only partially used. Your new printhead comes with fresh ink cartridges already installed.

10 Remove the new printhead from its packaging.

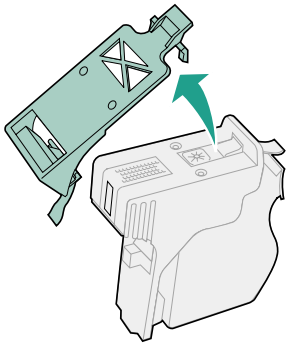
11 Remove the plastic cushioning from the printhead.



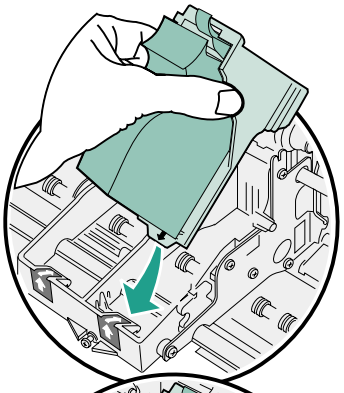
12 Pull out the tape between the ink cartridge and the printhead.



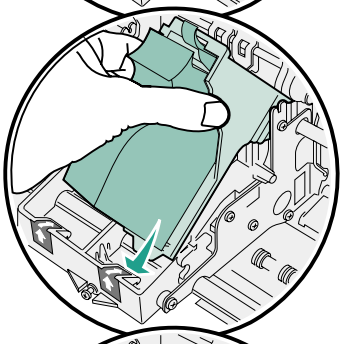
13 Gently remove the plastic cap from the bottom of the printhead.

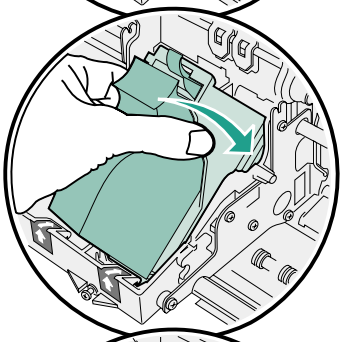


14 Hold the printhead as shown.

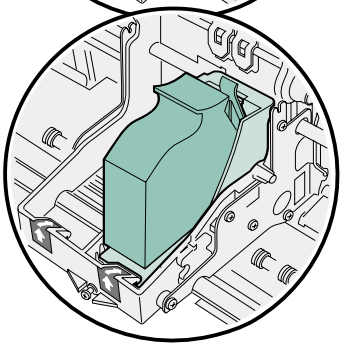


15 Insert the printhead tab *under* the small arrow on the carrier slot.

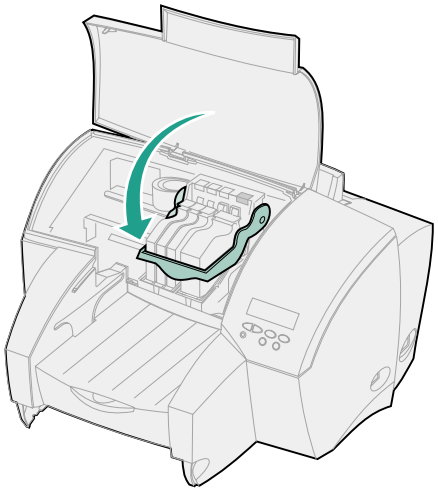




16 Rotate the printhead toward the back of the printer until it snaps into position.



17 Pull the carrier handle back down to lock in the printheads.



18 Close the front cover.

Click the following printer messages for help solving printhead problems:

MESSAGE: 31 MISSING PRINTHEAD

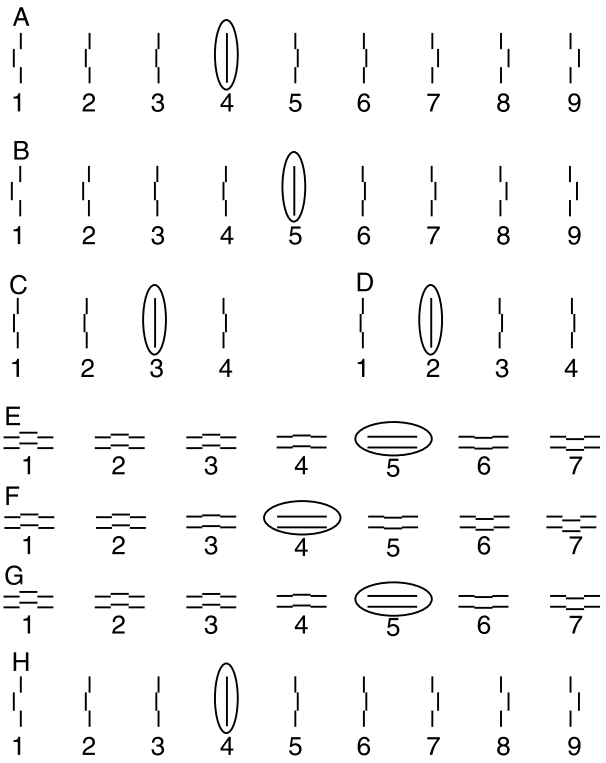
MESSAGE: 32 UNSUPPORTED PRINTHEAD

18 Aligning the printheads

Whenever you install a printhead, the printer automatically prints a test page of alignment patterns. There are eight patterns: A, B, C, D, E, F, G, and H.

Once the alignment page prints, the operator panel displays the current alignment value for each pattern.

1. From the Test A alignment group on the test page, select the number under the alignment pattern that comes closest to forming a straight line.



2. Press **Menu>** to scroll to the correct alignment value.
3. Press **Select**.
4. Repeat these steps for alignment groups B, C, D, E, F, G, and H.

   Once you select the value for alignment group G, the printer returns to **Ready**.

19 Cleaning the printheads

If streaking or print quality problems occur, first check that the printheads are positioned correctly in the carrier:

1. Press **Menu>** until you see the Utilities Menu**.**
2. Press **Select.**
3. Press **Menu>** until you see Change Printhead.
4. Press **Select**.
5. Open the printer cover.

   The carrier moves to the load position at the center of the printer.
6. Raise the carrier handle up and back down to reseat the printheads.
7. Close the cover.

If this does not solve the problem, a printhead may be plugged with dried ink. Doing a Short Clean should fix most print quality problems:

1. Press **Menu>** until the Utilities Menu appears.
2. Press **Select**.
3. Press **Menu>** until Clean Printheads appears on the second line of the display.
4. Press **Select**.

   Short Clean appears on the second line of the display.
5. Press **Select**.

   Once the Short Clean finishes, a test page prints four color bars.

If you do not see an improvement, do a Long Clean. Keep in mind, however, that a Long Clean uses a substantial amount of ink and takes some time to run.

1. Press **Menu>** until the Utilities Menu appears.
2. Press **Select**.
3. Press **Menu>** until Clean Printheads appears on the second line of the display.
4. Press **Select**.
5. Press **Menu>** until Long Clean appears on the second line of the display.
6. Press **Select**.

7. Once the Long Clean finishes, a test page prints four color bars with a corresponding number below each color.

   A **Clean [1]?=Go/Stop** message appears on the operator panel display for each color bar.

8. For each color bar, press the **Stop** button if the quality is satisfactory or the **Go b**utton if the quality is not improved.

   If you pressed **Go** for any of the color bars, the printer does another Long Clean. A **Cleaning Printheads** message appears on the display. After a few seconds the printer prints another test page with all four colors.

9. Because a Long Clean uses so much ink, we recommend not doing more than two. When the **Clean [1]?=Go/Stop** message appears on the operator panel display, press the **Stop** button for each color bar.

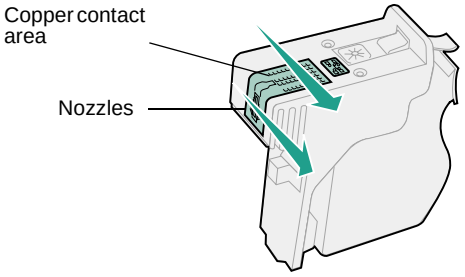
10. Press **Return** to go back to **Ready**.

If the print quality is still unsatisfactory, try wiping the affected printhead to remove dried ink.

1. Press **Menu>** until the Utilities Menu appears.
2. Press **Select.**
3. Press **Menu>** until Change Printhead appears.
4. Press **Select**.
5. Open the printer front cover.

   The carrier moves to the load position at the center of the printer.

6. Lift the carrier handle to unlatch the printhead from the carrier.
7. Grip the printhead and pull it up and out.
8. Use a clean, lint-free, damp cloth to gently wipe across the copper contact area.



9. To dissolve dried ink, hold the damp cloth against the printhead nozzles for about three seconds. Gently blot and wipe dry.
10. Allow the copper contact time to dry.

11 Reinsert the printhead.

12 Close the cover.

13 Print your job.

If the print quality is still not improved, your printer may require service. Contact Lexmark for more information.

20 Adding hardware options

If you add or remove the optional multipurpose feeder or paper tray 2, you need to update the printer's configuration through your printer driver.

From Windows

1. Open the File Menu.
2. Choose Print (or Printer) Setup.
3. In the Print Setup dialog box, click the **Properties** button.
4. Click the Printer Configuration tab.

   (If you are using Windows NT or Windows 2000, go to Start, Settings, Printers, J110, and right-click your mouse to select the Properties Menu, then click the Printer Configuration tab.)
5. From the list of Available Options, highlight the option you installed and click the **Add** button.

   The option appears under Installed Options.

   To remove an option, highlight it from the list of Installed Options and click the **Remove** button.

   The option reappears under Available Options.
6. If you installed bidirectional support, click the **Automatic Configuration** button and both the Available Options and Installed Options are updated automatically.

From a Macintosh computer

1. From the pop-up menu, select Installed Options.
2. Click the check box to select the options you installed.
3. Click the check box again to remove an option.

21 Clearing paper jams

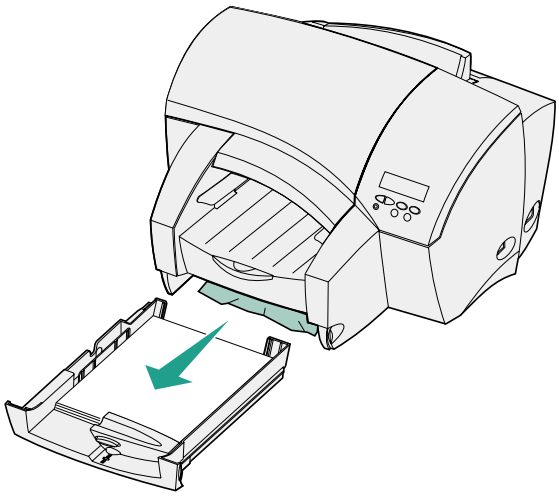
Selecting the right media for your printer and loading it correctly eliminates most paper jams. Paper jams occur for a variety of reasons: removing a tray to add paper while the printer is still printing, pushing the paper length guide too tightly against the paper or overfilling the tray. When a jam occurs, the printer stops and alerts you with a message on the operator panel display. After removing the paper, press **Go** to clear the message and continue printing.

For an explanation of a paper jam message and how to clear it, just click the message number.

200 Check Tray 1
201 Check Tray 1
203 Open Cover
204 Open Cover
205 Open Cover
206 Check Tray 2
207 Open Cover
208 Check Tray 2
209 Check Tray 1
220 Check Tray 2
221 Check Tray 2
222 Check Tray 2
250 Check MP Feeder

A **200, 201 or 209 Check Tray 1** message indicates the paper jammed from tray 1.

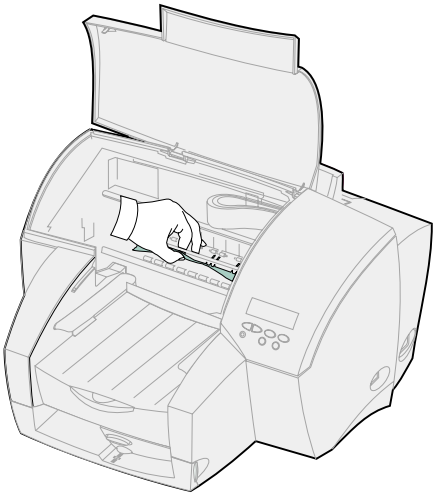
1. Remove tray 1 and look inside the opening for the paper jam.
2. Pull the jammed paper toward you and discard it.



3. Reinstall the tray and press **Go** to resume printing.

A **203, 204, 205 or 207 Open Cover/Move Media** message indicates the paper is jammed inside the printer.

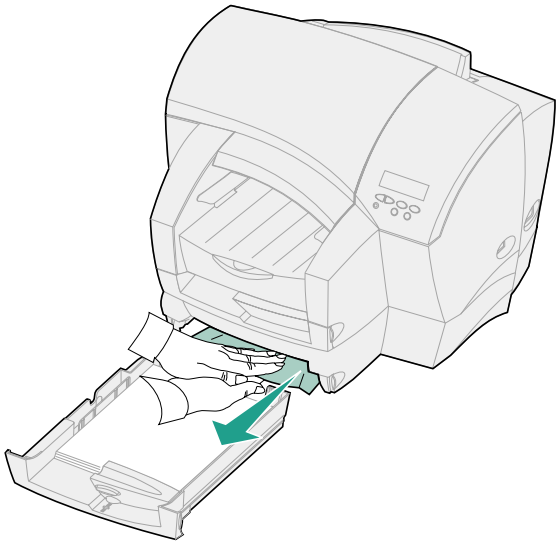
1. Open the cover.
2. Press **Menu>** continuously to advance the paper incrementally until you can reach the paper to pull it out.



3. If the paper does not advance, remove the source tray, pull out the jammed paper and discard it.
4. Reinsert the source tray.
5. Close the cover and press **Go**.

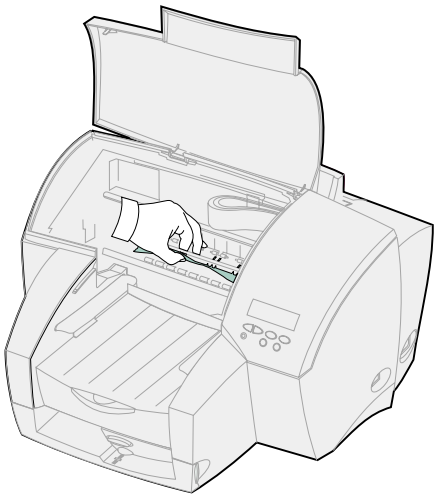
A **206, 208, 220, or 222 Check Tray 2** indicates the paper jammed from tray 2.

1. Remove tray 2 and look inside the opening for the paper jam.
2. Grasp the paper between your hands and gently pull the paper toward you.
3. Reinstall the tray and press **Go** to resume printing.



A **221 Check Tray 2/Move Media** message indicates the paper jammed from tray 2.

1. Open the cover.
2. Press **Menu>** continuously to advance the paper incrementally until you can reach the paper to pull it out.



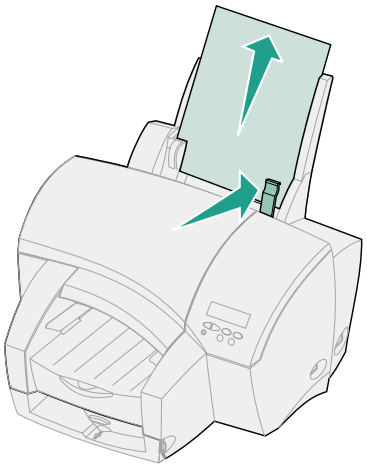
3. If the paper does not advance, remove the source tray, pull out the jammed paper and discard it.

If that does not clear the jam:

1. Turn off the printer.
2. Remove the printer from the 250-sheet drawer.
3. Removed the jammed paper and discard it.
4. Reinstall the printer on the 250-sheet drawer.
5. Turn on the printer.
6. Resend your print job.

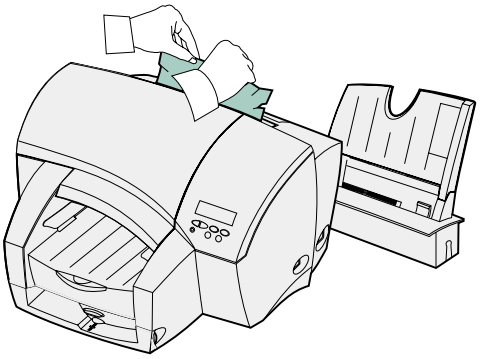
A **250 Paper Jam** indicates a jam in the multipurpose feeder.

1. Push the paper release lever toward the media and hold it.
2. Pull the media straight up.



If that does not clear the jam:

1. Remove the multipurpose feeder.
2. Pull out the jammed paper.
3. Reinstall the multipurpose feeder and press **Go** to resume printing.



22 Printer messages

When your printer needs attention, you are alerted by a message on the printer operator panel or, if you installed the Windows driver status window, a message appears on your computer screen. For an explanation of a message and how to clear it, just click the message.

Ink Cartridges

31 Missing Cartridge

31 Defective Ink Cartridge

32 Unsupported Cartridge

88 Cartridge Low

89 Cartridge Empty

Cartridge Life Expired

Cartridge Life Warning

Paper

34 Short Paper

Change <input source> <type> <size>

Check MPF Connection

Check Tray x Connection

Insert Duplex Pages & Press Go

Insert <tray>

Install Tray x or Cancel Job

Load <input source> <type> <size>

Load Manual <type> <size>

34 Short Paper

PerfectFinish

87 PerfectFinish Empty

Printer Calibrating

Printheads

31 Missing Printhead

32 Unsupported Printhead

Other Messages

54 Std Par ENA

56 Std Parallel Port Disabled

Flushing Buffer

Memory Full

Ink Cartridges

An ink cartridge message indicates a color ink cartridge (**C=Cyan, M=Magenta or Y=Yellow**) or a black ink cartridge (**K=Black**) needs attention.

Message:88 Cartridge Low

An ink cartridge is almost empty. Check that you have a replacement cartridge and press **Go** to clear the message.

Message:89 Cartridge Empty

An ink cartridge is empty and must be replaced.

Message:31 Missing
Cartridge XXXX

An ink cartridge is not detected. Insert the ink cartridge that is missing. If the ink cartridge is already installed, remove it. Check that the tape has been removed and re-insert the cartridge, making sure it is securely in place.

Message:31 Defective
Ink Cartridge

An ink cartridge is damaged and must be replaced.

Message:Cartridge Life Warning

If your ink cartridge is a year old, it is approaching end of life. Check that you have a replacement cartridge and press Go to clear the message

Message:Cartridge Life
Expired

The ink cartridge reached its life expectancy and must be replaced.

Message:32 Unsupported
Cartridge

The ink cartridge is not designed for your printer. Replace it with an ink cartridge that is made for your printer.

Paper

Message:Change <input source>
<type> <size>

Either the wrong paper type and/or size is loaded in the tray or the wrong paper type setting is selected in the menu. Load the correct type and/or size paper in the tray and press **Go** to clear the message.

Message:Check Tray x
Connection

Either the tray has been removed from the printer, or it is attached but not completely connected. If you are not using the tray, press **Go** to clear the message. If you are using the tray, reattach it.

Message: **Check MPF Connection**

Either the multipurpose feeder has been removed from the printer, or it is attached but not completely connected. If you are not using the multipurpose feeder, press **Go** to clear the message. If you are using the multipurpose feeder, reattach it.

Message: **Insert Duplex Pages & Press Go**

The front side of the manual duplex job is printed. Remove the pages and reinsert them face up in tray 1 to print the other side.

Message: **Insert <tray>**

The tray is not in the printer. Reinsert the tray to clear the message.

Message: **Install Tray x or Cancel Job**

The tray was removed before a job sent to that tray printed. Reinsert the tray or press **Menu>** and select Cancel Job.

Message: **Load <input source> <type> <size>**

The tray is out of paper. Load paper to clear the message.

Message: **Load Manual <type> <size>**

The manual feeder or multipurpose feeder is waiting to print a manual feed job. Load a sheet of paper or an envelope. If a sheet or envelope is already in the manual feeder or multipurpose feeder, press **Go** to clear the message.

Message: **34 Short Paper**

The wrong size paper is selected in the Paper Size menu. Select the correct size and press **Go** to clear the message, or press **Menu>** and select Cancel Job.

PerfectFinish

Message: **87 PerfectFinish Empty**

The PerfectFinish cartridge is empty and must be replaced. To continue printing your job without PerfectFinish, press **Go** to clear the message.

Message: **Printer Calibrating**

This message appears whenever the PerfectFinish cartridge applicator is refilling. You may hear some clicking sounds as the cartridge applicator refills. Once the cartridge applicator is refilled, you may resume printing.

Printheads

A printhead message indicates a color printhead (**C=Cyan, M=Magenta or Y=Yellow**) or a black printhead (**K=Black**) needs attention.

Message: **31 Missing**
Printhead

A printhead is not detected. Install the printhead. If the printhead is already installed, check that it is positioned correctly in the printer. If that does not clear the message, try cleaning the copper contact area on the printhead.

Message: **32 Unsupported**
Printhead

The printhead is not designed for your printer. Replace it with a printhead that is made for your printer.

Other messages

Message: **54 Std Par ENA**
Connection Lost

During its power on cycle, the printer does not detect the external print server. If your printer is locally attached, press **Go** to clear the message. If it is attached to a network, check that the cable is securely connected to your computer. Turn the printer off and back on. If this does not clear the message, contact the network administrator.

Message: **Flushing Buffer**

The printer is flushing a corrupted file.

Message: **56 Std Par**
Port Disabled

The parallel port is disabled. Press **Go** to clear the message. The printer discards any print jobs on the parallel port. If you want to use the parallel port, select Parallel Buffer from the Parallel Menu and then select Auto.

Message: **Memory Full**

The printer does not have enough memory to process the job. Press **Go** to continue printing the job, although some data is lost. Simplify your job and re-send your job.

23 Solving printer problems

Some printer problems are easy to fix. If your printer is not responding, first make sure:

- The printer is turned on
- The power cord is plugged in
- Other electrical equipment plugged into the outlet works
- The printer cable is securely attached to the computer and the printer

If all else fails, turn the printer off and back on from the on/off switch (never a power strip).

If a message appears on the operator panel, click **PRINTER MESSAGES** to find out what it means and how to clear it.

If you have a paper jam, click **CLEARING PAPER JAMS** to identify the jam and how to clear it.

Click the printing problems below for a solution.

PRINTING PROBLEMS

POOR PRINT QUALITY

PAPER FEEDING

Printing problems

Solutions to printing problems you may encounter are listed below.

Cause	Solution
Your job prints, but the margins are incorrect.	Check the Paper Size setting in your printer driver and your software application.
Your job prints from the wrong tray or on the wrong media.	Check the Paper Type and Paper Source settings in your printer driver.
You printed an envelope but the words run off the side.	Be sure to change orientation to landscape in your printer driver before printing an envelope.
Menu settings changed from the operator panel have no effect.	Your printer driver overrides all but the Paper Size and Paper Type settings set from the operator panel.
Your job did not print.	Your printer is not ready to receive data. Make sure **Ready** appears on the operator panel before you send a job. Press **Go** to return to **Ready**. Make sure paper is loaded in the trays. Make sure you are using a recommended printer cable. Make sure the printer cable is securely connected. Your print server is not connected properly. Verify that you set up the correct network address.
You installed the 250-sheet drawer (or the multipurpose feeder) but the printer driver does not recognize it.	Make sure the printer is on the drawer correctly and that both sides of the printer are lined up with the drawer. Make sure the multipurpose feeder is installed correctly. If you are using Windows, make sure you added the option in Printer Configuration.
You get a **93x Service Error**.	1 Turn the printer off and back on from the on/off switch — never from a power strip. 2 Open the printer cover. 3 Raise the carrier handle up and back down to reposition the printheads. 4 Close the cover. 5 Turn the printer off and back on. 6 If this does not clear the message, try cleaning the copper contact area on the printheads. 7 If the 93x service errror remains, call for service.
You get a **PerfectFinish Empty** message, even though you just installed a new cartridge.	The cartridge is not installed correctly. Remove it and re-install it, making sure it is under the latches. Press **Go** to clear the message.
The printer is making clicking sounds and a **Printer Calibrating** message appears on the display.	The PerfectFinish cartridge applicator is refilling the cartridge.
You want to print your jobs even though the PerfectFinish cartridge is empty.	Press **Go** each time you print a job, although you risk degraded print quality until you replace the PerfectFinish cartridge.

Poor print quality

Some print quality problems are solved simply by replacing an ink cartridge, printhead, or a PerfectFinish cartridge. Solutions to other problems are listed below.

Cause	Solution
Colors are streaked or uneven.	**1** Check that the printheads are positioned correctly in the carrier. **2** Do a Short Clean to remove any ink plugs or clogs in the printheads. **3** If this does not solve the problem, do a Long Clean.
You cannot tell from the test page that printed when you did a Short Clean which printhead is unsatisfactory.	Do a Long Clean on all four color bars to clean both printheads.
Your print job has misaligned lines.	**1** Check that the printheads are positioned correctly in the carrier. **2** If this does not solve the problem, align the printhead. Print an alignment test page and select the alignment value that comes closest to forming a straight line.
Transparencies printed from tray 1 or tray 2 are smeared.	Remove each transparency as it exits the printer. Increase the dry time setting from your printer driver: • From the Windows driver, go to the Setup tab. • From the Macintosh driver, go to Paper Handling.
The entire page is white.	Be sure you removed all tape from the printheads.
You installed a new ink cartridge, but the print quality is not improved.	• While installing the ink cartridge, you may have dislodged the printhead from the carrier. Reseat the printheads to ensure they are positioned correctly in the carrier. • There may be a poor electrical connection. Reseat the printheads. • Clean the tab circuit on the printhead.
You installed an unused ink cartridge that had been opened, but not used, for a year. The operator panel displays a **Cartridge Life Expired** message.	The life expectancy for an opened ink cartridge is a year. Install a new ink cartridge.
You want to print your job at a resolution higher than 600 dpi.	The 2400 x 1200 dpi setting is effective for some print jobs, although it uses large amounts of computer disk space and takes a longer time to print. From the Windows printer driver, select 2400 x 1200 dpi from the Setup tab; from the Macintosh printer driver, select it from the Paper Type/Quality tab in the Print Menu.

Paper feeding

To reduce paper jams, see **CHOOSING THE RIGHT MEDIA**. To solve paper jams, see **CLEARING PAPER JAMS**. Solutions to other paper feeding problems are listed below.

Cause	Solution
You cannot see or reach the paper jam.	Press **Menu>** continuously to advance the paper incrementally until you can reach the paper and pull it out.
You get a jam when you remove a tray to add paper while the printer is printing.	Refill the tray, reinsert it and press **Go.**
The paper jams in tray 1 or tray 2.	The paper length guide is pushed too tightly against the paper, causing it to bend against the paper supports. Make sure the paper is lying flat in the tray. The paper exceeds the stack height level on the right side of the tray.
You cleared a paper jam and pressed **Go**, but the jam message remains.	Check for any other paper in the path, remove it and press **Go**.
Your job is skewed.	Make sure the paper guides are set correctly. Make sure the paper tray is completely inserted in the printer.

24 Printer menus

Your printer has eleven menu categories with printer settings grouped together under each menu. For example, settings for printer status are under the Supplies Menu; settings for paper handling are grouped under the Paper Menu.

The menu map shows the printer settings for each menu. Click on any setting for a description of what it is and when to use it.

Using the printer menu settings

Linking paper trays saves you time refilling them, monitoring supplies reminds you when to have replacements on hand, and selecting a specific print quality setting helps reduce printing costs—these are a few examples of using printer settings to control how you want to print.

Media handling

If you use the same media size and media type in tray 1 and tray 2, you can link the two trays by selecting the same Paper Size and Paper Type in the Paper Menu. When one tray is empty, the printer automatically switches to the other tray.

Printer status

Use the settings in the **SUPPLIES MENU** to monitor your supplies.

Reduce printing costs

Conserving supplies lowers printing costs:

- Change the print quality setting from Normal (the default) to Ink Saver

Color menu	
Menu Item	**Printer Setting**
Print Quality	Ink Saver* Normal Best

- Select **N-UP PRINTING** printing from your printer driver to save paper by printing multiple pages on one page or
- Select **MANUAL DUPLEX** from your printer driver to print jobs on both sides of the page.

Performance versus print quality

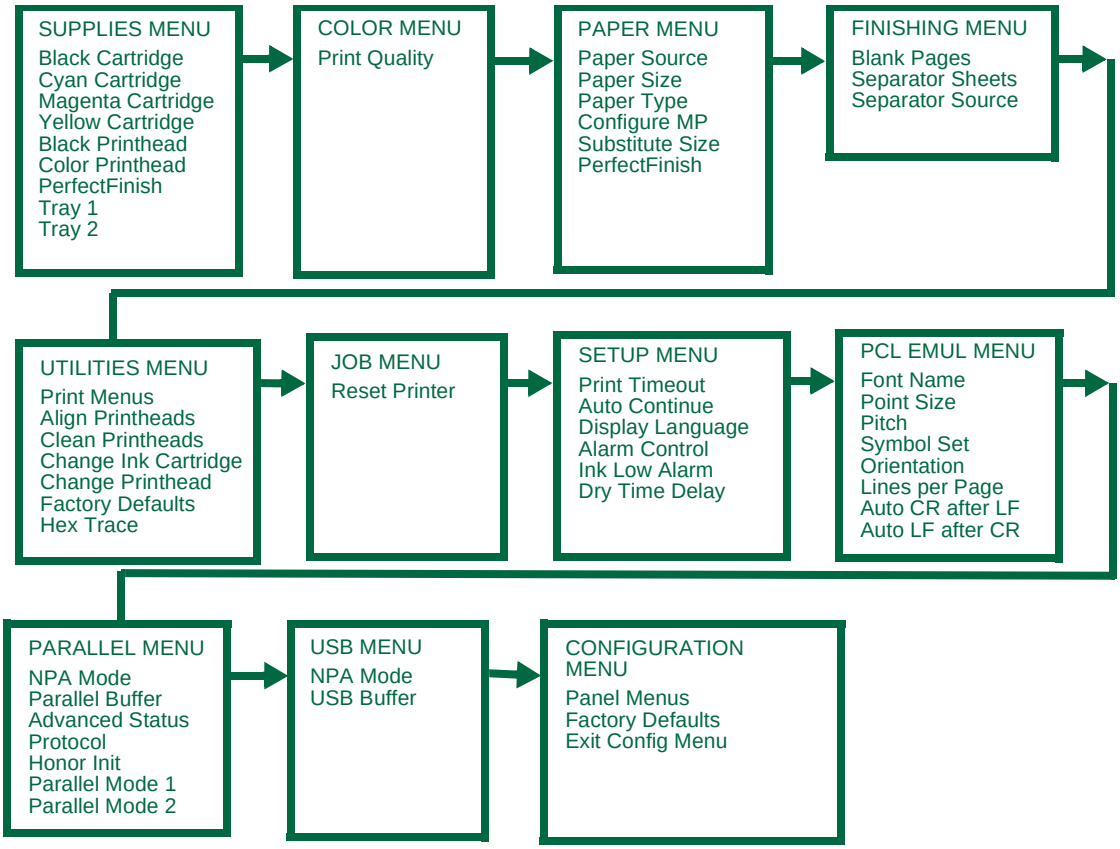
Change the print quality setting to Ink Saver for fast, bidirectional printing. Remember that the faster speed may degrade print quality.

Change the print quality setting to Best to get the best print quality, but print speed is slower.

Printer maintenance

Use these settings in the **UTILITIES MENU** to keep your printer running smoothly:

- **ALIGN PRINTHEADS**
- **CLEAN PRINTHEADS**
- **CHANGE INK CARTRIDGE**
- **CHANGE PRINTHEAD**


SUPPLIES MENU
Black Cartridge
Cyan Cartridge
Magenta Cartridge
Yellow Cartridge
Black Printhead
Color Printhead
PerfectFinish
Tray 1
Tray 2
COLOR MENU
Print Quality
PAPER MENU
Paper Source
Paper Size
Paper Type
Configure MP
Substitute Size
PerfectFinish
FINISHING MENU
Blank Pages
Separator Sheets
Separator Source
UTILITIES MENU
Print Menus
Align Printheads
Clean Printheads
Change Ink Cartridge
Change Printhead
Factory Defaults
Hex Trace
JOB MENU
Reset Printer
SETUP MENU
Print Timeout
Auto Continue
Display Language
Alarm Control
Ink Low Alarm
Dry Time Delay
PCL EMUL MENU
Font Name
Point Size
Pitch
Symbol Set
Orientation
Lines per Page
Auto CR after LF
Auto LF after CR
PARALLEL MENU
NPA Mode
Parallel Buffer
Advanced Status
Protocol
Honor Init
Parallel Mode 1
Parallel Mode 2
USB MENU
NPA Mode
USB Buffer
CONFIGURATION MENU
Panel Menus
Factory Defaults
Exit Config Menu

Supplies Menu

Only supplies that are low or empty appear on the operator panel display.

BLACK CARTRIDGE/CYAN CARTRIDGE/MAGENTA CARTRIDGE/YELLOW CARTRIDGE

BLACK PRINTHEAD/COLOR PRINTHEAD

PERFECTFINISH CARTRIDGE

TRAY 1/TRAY 2

Black Cartridge/Cyan Cartridge/Magenta Cartridge/Yellow Cartridge

A Low, Empty or Refilled message indicates a color ink cartridge—C (Cyan), M (Magenta), Y (Yellow) or a black ink cartridge—K (Black)—needs attention. See **REPLACING AN INK CARTRIDGE.**

Menu item	Value
Black Cartridge	=Low =Empty
Cyan Cartridge	=Low =Empty
Magenta Cartridge	=Low =Empty
Yellow Cartridge	=Low =Empty

Black Printhead/Color Printhead

A **`Life Warning`** message indicates that a a black printhead—K (Black)—or a color printhead—C (Cyan), M (Magenta), Y (Yellow)—needs to be replaced. See **REPLACING THE PRINTHEADS**.

Black Printhead	=Life Warning
Color Printhead	=Life Warning

PerfectFinish Cartridge

An **Empty** message indicates that the PerfectFinish cartridge needs to be replaced. See **REPLACING PERFECTFINISH.**

PerfectFinish =Empty

Tray 1/Tray 2

An **Empty** message indicates that the tray is out of paper or the tray is not inserted correctly. To add paper, see **LOADING TRAY 1 OR TRAY 2**. If there is already paper in the tray, remove and reinsert the tray.

Tray 1 =Empty

Tray 2 =Empty

Color Menu

Use the Color Menu print quality settings to select the amount of ink used in your print jobs. This lets you reduce printing costs, increase the speed of your print jobs or print at the highest quality resolution.

Ink Saver

Use this setting to conserve ink when printing drafts.

Normal

Use this setting for most print jobs.

Best

Use this setting for presentations and charts.

Paper Menu

Use this menu to specify what tray (or feeder) you want your job to print from and the size and type of media you want to print on. Only installed sources display.

- **PAPER SOURCE**
  - if you use any source other than tray 1, be sure to specify the correct source from the operator panel or your printer driver before printing your job.
- **PAPER SIZE**
- **PAPER TYPE**
- **CONFIGURE MP**
- **SUBSTITUTE SIZE**
- **PERFECTFINISH**

Paper source	Paper size	Paper type
Tray 1	• A4 • A5 • JIS B5 • Letter* (US) • Legal • Executive • Universal	• Plain Paper* • Coated Paper • Glossy Paper • Photo Paper • Card Stock • Transparency • Labels • Iron On • Bond • Letterhead • Preprinted • Colored Paper
Tray 2	• A4 • A5 • JIS B5 • Letter* (US) • Legal • Executive • Universal	• Plain Paper* • Coated Paper • Glossy Paper • Photo Paper • Card Stock • Transparency • Labels • Iron On • Bond • Letterhead • Preprinted • Colored Paper

Paper source	Paper size	Paper type
MP Feeder	• Letter* (US) • 7 3/4 Envelope • 9 envelope • 10 Envelope* (US) • DL Envelope • C5 Envelope • B5 Envelope • Other Envelope	• Plain Paper* • Coated Paper • Glossy Paper • Photo Paper • Card Stock • Transparency • Labels • Iron On • Bond • Envelope • Letterhead • Preprinted • Colored Paper
Manual Pap	• A4 • A5 • JIS B5 • Letter* (US) • Legal • Executive • Universal	• Plain Paper* • Coated Paper • Glossy Paper • Photo Paper • Card Stock • Transparency • Labels • Iron On • Bond • Letterhead • Preprinted • Colored Paper
Manual Env	• 7 3/4 Envelope • 9 envelope • 10 Envelope* (US) • DL Envelope • C5 Envelope • B5 Envelope • Other Envelope	• Envelope*
*Factory default		

Configure MP

Use Cassette, the default setting, to print continuously from the multipurpose feeder. If you manually feed single sheets, select Manual. If you keep paper in the multipurpose feeder and configure it as First, the printer always feeds from the multipurpose feeder.

Menu item	Value
Configure MP	• Cassette* • Manual • First

*Factory default

Substitute Size

The printer automatically prints letter-size jobs on A4-size paper and A4-size jobs on letter-size paper if the requested size is not loaded in the tray. Turn off this setting if you do not want to substitute the page size.

Menu item	Value
Substitute Size	• Off • Letter/A4*

PerfectFinish

The default for PerfectFinish is on. To divert the job from the PerfectFinish paper path, you can turn this setting off.

Menu item	Value
PerfectFinish	• On* • Off

*Factory default

Finishing Menu

Use this menu if you want your print jobs to be separated with a blank page.

- **BLANK PAGES**
- **SEPARATOR SHEETS**
- **SEPARATOR SOURCE**

Blank Pages

If your print jobs requires an even-number of pages, change this setting to Print.

Menu item	Value
Blank Pages	=Do Not Print*
	=Print

*Factory default

Separator Sheets

If you are sharing your printer with other people in the area, you can separate your jobs with a blank page inserted between jobs. If you are printing transparencies, you can select Between Pages to insert a blank page after each printed page.

Menu item	Value
Separator Sheets	=None*
	=Between Jobs
	=Between Pages

*Factory default

Separator Source

If you are using separator sheets, select Separator Source and then the tray containing the separator sheets. Only installed paper sources are displayed.

Menu item	Value
Separator Source	=Tray 1*
	=Tray 2
	=MP Feeder

*Factory default

Utilities Menu

Use this menu when installing new ink cartridges or printheads or to troubleshoot printing problems.

- **PRINT MENUS**
- **ALIGN PRINTHEADS**
- **CLEAN PRINTHEADS**
- **CHANGE INK CARTRIDGE**
- **CHANGE PRINTHEAD**
- **FACTORY DEFAULTS**
- **HEX TRACE**

Print Menus

Use this menu to print a menu settings page listing your current printer settings and installed options.

Menu item	Value
Print Menus	Press Select to print a menu page.

Align Printheads

Use this menu to print the printhead alignment test page. Once the page prints, select the bars that best line up vertically and horizontally.

Menu item	Value
Align Printheads	Press Select to print the alignment page. • A,B,C,D =1..15 • E =1..27 • F,G,H =1..15

Clean Printheads

If you notice print quality problems, the printhead(s) may be clogged. Use this menu to select Short Clean to remove dried ink from the printhead. This should fix most problems. If you do not see any improvement, select Long Clean.

Menu item	Value
Clean Printheads	=Short Clean =Long Clean

Change Ink Cartridge

To replace an ink cartridge, you can either open the cover or select Change Ink Cartridge from the Utilities Menu.

Menu item	Value
Change Ink Cartridge	Press Select. You are prompted to open the cover.

Change Printhead

To move the carrier to the load position, select Change Printhead from the Utilities Menu.

Menu item	Value
Change Printhead	Press Select. You are prompted to open the cover.

Factory Defaults

To restore printer settings to their factory defaults, select Factory Defaults from the Utilities Menu. All settings except Display Language, Parallel Menu and USB Menu are reset.

Menu item	Value
Factory Defaults	=Restore =Do Not Restore

Hex Trace

When unexpected characters print or characters are missing, use Hex Trace to help isolate printing problems by printing a hexidecimal and character representation of what information your printer is receiving.

Menu item	Value
Hex Trace	Press Select to activate Hex Trace mode.

Job Menu

Use this menu to reset the printer to the settings you defined. Make sure there are no other jobs waiting to print before pressing Reset Printer or you risk losing some or all of the jobs.

Menu item	Value
Reset Printer	Press Select to reset the printer settings.

Setup Menu

Use this menu to change printer warm-up time, how long the printer waits when it detects an error, what language you want displayed on the operator panel, whether you want to be alerted when the printer needs attention, and how long the printer waits before printing the next page.

- PRINT TIMEOUT
- AUTO CONTINUE
- DISPLAY LANGUAGE
- ALARM CONTROL
- INK LOW ALARM
- DRY TIME DELAY

Print Timeout

Use the Print Timeout setting to set the number of seconds the printer waits before printing the last page of a job that does not end with a command to print the page. When Print Timeout is disabled, the printer does not print the last page of a job until it has enough information to fill a page or it receives a Form Feed command.

Menu item	Value
Print timeout	Disabled* =1...240 (90*)

*Default setting

Auto Continue

If the printer is unattended on a network, use the Auto Continue setting to tell the printer how long to wait after detecting one of the following errors before resuming printing:

- **34 Short Paper**
- **Memory Full**
- **54 Std Par ENA**
- **56 Std Parallel Port Disabled**
- **88 Cartridge Low**

If Auto Continue is disabled, the printer stops and waits for operator intervention.

Menu item	Value
Auto Continue	Disabled* =5...255

*Default setting

Display Language

Use this setting to choose the language you want displayed on the operator panel.

Menu item	Value
Display Language	=English =French =German =Italian =Spanish =Danish =Norwegian =Dutch =Swedish =Portuguese =Finnish =Japanese

Alarm Control

Use the alarm to alert you when the printer needs intervention.

Menu item	Value
Alarm Control	=Off =On*

*Default setting

Ink Low Alarm

Use the alarm to alert you when ink cartridges are running low.

Menu item	Value
Ink Low Alarm	=Off =On*

*Default setting

Dry Time Delay

If the media you are using is slow drying, you can increase the number of seconds the printer waits before printing the next page, either from your printer driver or from the operator panel.

Menu item	Value
Dry Time Delay	=Disabled*
	=Auto
	=1..30

*Default setting

PCL Emul Menu

Use this menu to change settings for jobs printed in PCL emulation printer language.

- FONT NAME
- POINT SIZE
- PITCH
- SYMBOL SET
- ORIENTATION
- LINES PER PAGE
- AUTO CR AFTER LF
- AUTO LF AFTER CR

Font Name

Select the font you want to use from this menu.

Menu item	Value
Font Name	Select the font

Point Size

If you choose a scalable typographic font, you can select the point size (height of the font characters). One point equals approximately 1/72 of an inch.

Menu item	Value
Point Size (only displays typographic fonts)	Select the point size

Pitch

If you choose a scalable monospaced font, you can change the pitch (the number of fixed space characters in a horizontal inch of type).

Menu item	Value
Pitch (only displays fixed or monospaced fonts)	Select the pitch

Symbol Set

Choose a symbol set, which contains alphabetic and numeric characters, punctuation, and special symbols, for different printing requirements, such as math symbols for scientific text.

Menu item	Value
Symbol Set	Select the symbol set

Orientation

Choose the direction you want your job printed on the page.

Menu item	Value
Orientation	=Portrait*
	=Landscape

*Factory default

Lines Per Page

Change the number of lines printed on a page. Remember: if you change this setting, be sure to select the correct paper size and orientation first.

Menu item	Value
Lines Per Page	=1...255 (US=60* / Non-US=64*)

*Factory default

Auto CR After LF

This setting determines how the printer formats the end of a line. Select whether the printer automatically performs a carriage return (CR) after a line feed (LF) control command.

Menu item	Value
Auto CR After LF	=Off*
	=On

*Factory default

Auto LF After CR

Like the setting above, this setting determines how the printer formats the end of a line. Select whether the printer automatically performs a line feed (LF) after a carriage return (CR) control command.

Menu item	Value
Auto LF After CR	=Off*
	=On

*Factory default

Parallel Menu

Use this menu to change settings for jobs sent to the printer through the parallel interface connection.

- NPA MODE
- PARALLEL BUFFER
- ADVANCED STATUS
- PROTOCOL
- HONOR INIT
- PARALLEL MODE 1
- PARALLEL MODE 2

NPA Mode

When NPA Mode is enabled, your computer can send print jobs to the printer and query printer status information simultaneously.

Menu item	Value
NPA Mode	=On =Off =Auto*

*Factory default

Parallel Buffer

You can configure the size of the parallel input buffer to meet your system's requirements. The maximum size you can modify depends on the amount of memory in your printer. Auto, the default setting, calculates a buffer size proportional to the total amount of available printer memory.

Menu item	Value
Parallel Buffer	=Disabled =Auto* 3K to maximum size allowed **Note:** Changing the parallel buffer setting automatically resets the printer.

*Factory default

Advanced Status

With Advanced Status set to on, bidirectional communication is enabled through the parallel interface.

Menu item	Value
Advanced Status	=Off
	=On*

*Factory default

Protocol

When the protocol is set to Fastbytes, the printer receives information at a much faster transmission rate, provided the host computer supports Fastbytes. When the protocol is set to Standard, the printer receives information at a normal transmission rate.

Menu item	Value
Protocol	=Standard
	=Fastbytes*

*Factory default

Honor Init

This setting determines whether the printer honors hardware initialization requests from the computer.

Menu item	Value
Honor Init	=Off*
	=On

*Factory default

Parallel Mode 1

This setting controls the pull up resistors on the parallel port signals. It is useful for personal computers that have open collector outputs on the parallel port signals. This setting appears only if the Parallel Port supports this feature.

Menu item	Value
Parallel Mode 1	=Off*
	=On

*Factory default

Parallel Mode 2

If this setting is set to On, the parallel port data is sampled on the leading edge of strobe. If set to Off, the parallel port data is sampled on the trailing edge of strobe. This setting appears only if the Parallel Port supports this feature.

Menu item	Value
Parallel Mode 2	=Off
	=On*

*Factory default

USB Menu

Use this menu to change settings for jobs sent to the printer through the Universal Serial Bus (USB) interface port.

- **NPA MODE**
- **USB BUFFER**

NPA Mode

When NPA Mode is enabled, your computer can send print jobs to the printer and query printer status information simultaneously.

Menu item	Value
NPA Mode	=On
	=Off
	=Auto*

*Factory default

USB Buffer

You can configure the size of the USB input buffer to meet your system's requirements. The maximum size you can modify depends on the amount of memory in your printer. Auto, the default setting, calculates a buffer size proportional to the total amount of available printer memory.

Menu item	Value
USB Buffer	=Disabled
	=Auto*
	=3K to maximum size allowed
	Note: Changing the parallel buffer setting automatically resets the printer.

*Factory default

Configuration Menu

Use this menu to lock the operator panel or to restore all printer settings to the factory defaults.

- PANEL MENUS
- FACTORY DEFAULTS
- EXIT CONFIG MENU

Panel Menus

If you do not want others changing the printer default settings, you can disable the operator panel menus.

Menu item	Value
Panel Menus	=Disable =Enable*

*Factory default

Factory Defaults

If you select Restore All, all downloaded fonts, macros and symbol sets in printer memory are deleted and all menu settings return to their factory defaults except Display Language and all settings in the Parallel Menu and USB Menu.

Menu item	Value
Factory Defaults	=Restore All

Exit Config Menu

Press Select to exit the Configuration Menu.

Menu item	Value
Exit Config Menu	Press Select

25 Printer requirements

Windows system requirements

To use your printer with a PC, your system should have:

- An IBM-compatible PC with 166 MHz required (400 MHz recommended)
- 32MB RAM (128MB recommended)
- 200MB free hard disk space (500MB recommended)
- Windows 95, Windows 98, Windows 2000, or Windows NT 4.0
- VGA or Super VGA monitor recommended
- CD-ROM drive (2X or faster) recommended

Macintosh system requirements

To use your printer with a Macintosh computer, your system should have:

- 32MB RAM
- 6MB free hard disk space
- System 8.6 or higher
- RGB screen recommended
- CD-ROM drive (2X) recommended
- Lexmark MarkNet X2000 series external print server if connecting to a network

26 AppleTalk and MarkNet print server

Why you need to change the AppleTalk type

The J110 printer requires that you change the AppleTalk type in order for you to print AppleTalk network print jobs.

Before you change the setting

Verify your printer hardware setup is complete. Refer to the printer setup guide for detailed instructions.

Change the AppleTalk type

If you have TCP/IP available on your network, we recommend you assign an IP address to the MarkNet print server. Running TCP/IP with your print server lets you use the full range of print management tools and perform the easiest configuration.

Method 1 is an easy way to change the AppleTalk type for IP configured print servers. You can use Method 2 as well.

If you are **not** running TCP/IP, you must use Method 2.

Method 1 -- TCP/IP

1. Assign an IP address to the print server.
   - If you are running DHCP, your IP address is automatically assigned. Push the test button on MarkNet print server to print a network setup page. You can find the address under the TCP/IP heading.
   - If you are not running DHCP, you can manually assign an IP address using the printer operator panel (see **SET THE IP ADDRESS USING THE PRINTER OPERATOR PANEL**).
2. Type the IP address in the address bar of your browser (for example, http://156.192.225.86).
3. When you reach the MarkNet web pages, click Configuration/AppleTalk/Advanced Settings.
4. In the top section, make the following changes:
   - Change Type to **Hb PCL emulation**. (The default is LaserWriter. LaserWriter will not work correctly with your J110 printer.)
   - Delete the Prefix and PostScript strings
   - Change Mode to RAW
5. Click Submit to save your changes.

Method 2 -- Universal configuration files (UCF)

Two universal configuration files (UCF) are shipped on the Drivers, MarkVision and Utilities CD. They are installed on your computer in a Lexmark Extras folder when you set up your printer. You can use MarkVision or ftp the files to the MarkNet print server.

Set the AppleTalk type

You can use MarkVision to send the **SetApple.ucf** universal configuration file to the MarkNet print server to change the AppleTalk type from LaserWriter to **Hb PCL emulation**.

If you use ftp to send the file, use the following address structure: IP Address/Dev/Config (for example, //1157.184.12.30/Dev/Config).

Reset the default

The **ResetApple.ucf** universal configuration file resets the AppleTalk type back to the default (LaserWriter).

Additional configuration

The following instructions include setting IP address information, creating a Desktop printer, installing MarkVision, and how to change the AppleTalk zone for your printer.

Set the IP address using the printer operator panel

A simple way to set the IP address, netmask and gateway inside the print server is to use the printer operator panel. You need to be standing at the printer to use this method.

1. On the printer operator panel, choose Parallel Menu, STD Parallel, Network 0 Setup, TCP/IP, Set IP Address. Press Menu> until you see the correct menu item, and then press Select.
2. When the current IP address is displayed, use the buttons to change the address.

   Note: Pressing Select advances you to the next segment in the address. Menu> increases the number by one. <Menu decreases the number by one.
3. When you finish setting the IP address, press Select until the word SAVED appears briefly.
4. Set the IP netmask and gateway in a similar way.
5. Print a network setup page to verify the parameters are set as you intended.

Create a Desktop printer

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

1. In the Chooser, select the J110 printer.
2. If you have a routed network, there is a list of zones you can select from. The new printer is in the default zone for the network. Select this zone. If you don't know which zone to select, look on the network setup page under AppleTalk for Zone.
3. Select the new printer. If you don't know which printer to select, look on the network setup page under AppleTalk. Find the MarkNet port for your printer. The default name of the printer is listed beside Name.
4. Click Create.
5. Look for an icon to appear in the Chooser next to the printer name. This means you have successfully set up the new printer. A new desktop printer icon is placed on your desktop, too.

Change the zone and printer name

The MarkNet print server works automatically with AppleTalk networks. However, if you would like to use a zone and printer name different from the defaults, you can use MarkVision to change these settings.

Install MarkVision

1. Insert the Drivers, MarkVision, and Utilities CD.

   Note: You may have more than one version of the Drivers, MarkVision and Utilities CD, received at different times with different Lexmark products. Always use the latest version CD.
2. Select your language.

3. Click Lexmark Installer.
4. Click Install the version of software on the CD.
5. Accept the license agreement.
6. Click Easy Install.
7. Click Install and then follow the on-screen instructions.

Troubleshooting

If you need additional help setting up the MarkNet print server to work with AppleTalk, try the following resolutions.

Common solutions to network problems

1. Make sure the AppleTalk protocol is turned on (activated) in the print server. To find out, print a network setup page and look under AppleTalk.
2. Make sure the status of the MarkNet print server is “connected”. To find out, look on the network setup page for Status.
3. Do you see the printer in the Chooser? If not, restart the Macintosh workstation and look again.

   Note: Be aware that if you’re on a non-routed network, you can only see the printer if your workstation connection (LocalTalk, Ethernet or Token-Ring) matches the connection on the printer. For example, if the Macintosh workstation is on LocalTalk, you cannot see a printer on Ethernet unless there is a router on the network.

4. If you still don’t see the printer in the Chooser, make sure AppleTalk is active on the workstation (look in the AppleTalk control panel).
5. If you are still having trouble with the hardware, contact Lexmark for help. See **LEXMARK CUSTOMER SUPPORT**.

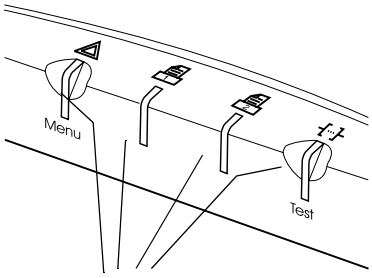
Light patterns on the external print server

MarkNet external print servers indicate activity, status, and errors by various cyclical patterns on the four indicator lights.

Under normal conditions, the lights on the print server indicate Ready (idle), job being processed, flash operation in progress, or restart in progress.

If there is any other pattern of lights, see the chart in **ERROR CONDITIONS**.

To more easily describe the various light sequences, we have assigned a number to every possible combination as shown below. The numbers we’ve chosen correspond to the binary representation on the indicator lights.



Four indicator lights

				Pattern
☐	☐	☐	☐	binary 0
☐	☐	☐	■	binary 1
☐	☐	■	☐	binary 2
☐	☐	■	■	binary 3
☐	■	☐	☐	binary 4
☐	■	☐	■	binary 5
☐	■	■	☐	binary 6
☐	■	■	■	binary 7
■	☐	☐	☐	binary 8
■	☐	☐	■	binary 9
■	☐	■	☐	binary 10
■	☐	■	■	binary 11
■	■	☐	☐	binary 12
■	■	☐	■	binary 13
■	■	■	☐	binary 14
■	■	■	■	binary 15

Error conditions

What shows on the four indicator lights	Description	Cause and solution
binary **12** (for 0.25 sec), binary **3** (for 0.25 sec), repeat continuously.	Serious failure. The print server is unable to recover.	Flawed firmware in print server or power interruption during flash operation. Call Customer Support.
binary **15** (for 0.25 sec), binary **x** (for 0.25 sec), repeat continuously. where **x** could be **0, 1, 2, 3, 4, 5, 6, 7, 8,** or **9**	POST error	Power-on self test error. During start-up, a hardware failure was detected on the print server. **1** Reset the print server. **2** If the problem reoccurs, call Customer Support.
binary **9** (for 0.75 sec), binary **1** (for 0.75 sec), repeat continuously.	Serial error Type = Parity	Parity error occurred during serial print job. **1** Reset the print server. (The 9,1 error code does not go away until you reset the print server. This is to make sure you see that a parity error occurred. To turn parity checking off, use a utility or telnet to port 9000.) **2** Send the job again.
binary **9** (for 0.75 sec), binary **1** (for 0.75 sec), repeats for a few seconds, then the print server automatically resets its serial port (attempts to recover). The two parallel ports are unaffected.	Serial error Type = Parity	Serial settings for print server do not match serial settings for printer. • Change the serial port settings for either the print server or the printer so they match.
		The printer was turned off while the serial job was printing. **1** Turn the printer back on. The print server then flushes the current job. **2** Send the job again.

Lexmark customer support

World Wide Web	**www.lexmark.com**
CompuServe	Go Lexmark
Internet	ftp.lexmark.com
U.S. and Canada, technical support and any other customer needs	1-800-LEXMARK
Lexmark phone numbers (worldwide)	On the Drivers, MarkVision and Utilities CD, click Contact Lexmark, Customer Support.

27 Using printer software and utilities

MarkVision printer management software

MarkVision for Windows 95/98/2000, Windows NT 4.0, and Macintosh is shipped with your printer on the *Drivers, MarkVision and Utilities* CD.

The MarkVision graphical user interface provides advanced, real-time, centralized management capabilities for Lexmark printers connected locally or attached directly to a network. Network users and administrators can also use the following MarkVision features to increase productivity:

- Centralized setup capabilities let you quickly configure and install multiple printers.
  - You can configure multiple printers simultaneously from one workstation.
  - Automatic network printer discovery and multi-adapter flash update let you set up and configure Lexmark network printers and change network addresses from one workstation.


You can integrate MarkVision directly into your favorite network management software.

- Use MarkVision to easily manage and monitor your Lexmark printers.
  - Messages on the MarkVision remote operator panel reflect printer real-time status.
  - The dynamic printer graphic provides a visual confirmation of installed options.
  - A list of installed features shows you printer capabilities.


Management capabilities for multivendor printers are available in some versions of MarkVision.

- MarkVision provides the tools to make printer-related administrative tasks effortless.
  - Monitor network print jobs, change their printing order, and hold or delete specific jobs.
  - Use asset management options to maintain printer inventory, assign property tags, track page counts, and gather job statistics.
  - Download and manage resources such as fonts, demo pages, and overlays.

MarkVision Professional

MarkVision Professional is a Web-based printer management utility shipped on the *Drivers, MarkVision and Utilities* CD that:

- Lets you monitor and manage devices using a Web browser from any PC with intranet access.
- Enables print management over your existing intranet infrastructure using TCP/IP.
- Offers a cross-platform solution for Windows and UNIX users.
- Lets you manage multivendor printers.

Network users and administrators can also use the following MarkVision features to increase productivity.

Maps

Locate printers quickly in your organization by positioning printer icons on a map to show not only printer status, but also actual printer location.

Filters

Search for devices using criteria such as printer status and installed features.

Filters automatically organize printers into groups based on real-time status information.

Remote updates

Remotely update firmware on multiple Lexmark print servers simultaneously.

MarkVision for UNIX networks

MarkVision for UNIX/Sun offers enterprise scalability, reliability, and performance that helps you easily set up, manage, and maintain printers across networks. Ultimately, this reduces help desk costs and increases network administrator productivity using:

- Centralized Lexmark printer setup capabilities.
- Remote monitoring and management.
- Proactive status alerts on Lexmark printers.
- Tools that allocate printing expenses, balance workload, and access printing resources.

MarkVision Simple Network Management Protocol (SNMP) Services let administrators manage popular multivendor printers.

MarkVision for UNIX Networks and Intranet Servers is recommended to assist in remote printer setup for UNIX platforms.

To purchase MarkVision for UNIX, contact the place where you bought your printer or visit the Lexmark Web site at www.lexmark.com.

MarkVision Messenger

MarkVision Messenger lets you create Actions that execute commands whenever a status event occurs across a set of devices. Device status events are conditions signaled by messages like Paper Tray Missing or Ink Low. Actions can be set up to occur automatically, as well as conditionally or repeatedly.

Lexmark MarkTrack

MarkTrack™ is a network printer reporting software package that helps administrators manage printing environments more efficiently. Administrators can use MarkTrack to:

- Retrieve and analyze network printer information from a Web browser.
- Allocate printing resources more efficiently.
- Make better purchasing decisions.
- Allocate printing costs to different departments.
- Provide statistical information on employee printing habits.
- Track Lexmark and SNMP-compliant printers.
- Collect, analyze, and create reports using MarkVision Printer Inventory and Job Statistics data or SNMP MIB data.
- Create reports using a Web server.
- View reports using a Web browser.
- Create an inventory of network printer assets automatically.
- Analyze printing for the enterprise.
- Plan ahead for supplies purchases, maintenance schedules, and printer replacement.

For more information on MarkTrack, refer to the product information, contact the place where you bought your printer, or visit the Lexmark Web site at www.lexmark.com.

Lexmark NetPnP

The NetPnP utility for Windows NT ships on the *Drivers, MarkVision and Utilities* CD.

NetPnP automates the configuration and installation of Lexmark printers on a network. NetPnP senses when a new printer is attached to the network, automatically creates a shared printer object on a Windows NT 4.0 system, and notifies users via e-mail that the printer is available for printing. It also notifies IT administrators via e-mail when a new printer is detected or when an error occurs during automatic printer installation.

- Lets administrators make printers available to users within seconds.
- Extends network printer installation to include the end user by installing all necessary components that enable printing to workstations across the network.

- Provides huge productivity gains when rolling out large numbers of network printers.
- Supports a wide range of printer installation options for IT administrators, from fully automatic installation to prompted confirmations.
- Lets you customize network printer installation in Windows NT environments running TCP/IP.
- Automates the setup of Lexmark network printers, eliminating more than a dozen steps in the process.
- Distribution of drivers with custom settings to users.

  IT administrators can remotely install, update, and distribute drivers with custom settings to users on the network, eliminating time-consuming workstation driver installation and configuration.

28 Moving the printer

If you move the printer to another location, we recommend you pack it in the box it came in. If the box is unavailable, find the closest equivalent.

1. If you are shipping the printer, remove the printheads and ink cartridges. For short moves, leave them in the printer.
2. Remove the multipurpose feeder and/or tray 2 if attached.
3. Unplug the power cord.
4. Unplug all cables.
5. if you are shipping the printer, remove the PerfectFinish cartridge and seal it in a ziploc bag . For short moves, leave the cartridge in the machine.
6. if you are shipping the printer, remove any paper from tray 1. For short moves, the paper can remain in the tray.
7. Repack the printer with foam or other protective materials.

The next time the printer is turned on, it refills the PerfectFinish cartridge applicator.

WARNING: Keep the box level during transport.

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