OKI®
People to People Technology™

OKIPAGE™ 18/24DX
DIGITAL LED PRINTER

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Print Media

Information on Paper

When you buy paper, keep in mind that page printers require a smooth finish paper. For most everyday applications, paper rated for copiers and laser printers should work well with your printer. Before buying any large quantity of a particular paper, *always test a sample first*.

! *Print media (including ink on preprinted forms) must be able to withstand 392 F (200 C) for 0.1 second.*

Path	Media: Qty	Weight	Sizes	Exit Path
Paper Tray	Paper: 530 sheets 20-lb.	16-28 lb.	Width: 5.8 to 8.5 inches Length: 8.3 to 14 inches	Top or Rear
Front Feeder	Paper: 100 sheets 20-lb.	16-28 lb.	Letter, 13 or 14 inch Legal, Executive, A4, A5, B5, C5 3.4 x 5.5 inches	Top or Rear
	Envelopes: 10	16-28 lb.	Com 10, Com 9, Monarch, DL, C4, C5	Rear Only
	Transparencies: **Transparencies must** **withstand 392°F (200°C) for** **0.1 second**	N.A.	Letter or A4	Rear Only
	Labels: **Labels must withstand** **392°F (200°C) for 0.1 second**	N.A.	Letter or A4	Rear Only
	Card Stock	Up to 36 lb.	Letter, 13 or 14 inch Legal, Executive, A4, A5, B5, C5	Rear Only
Paper Expansion Tray	Paper: 530 sheets 20 lb.	16-28 lb.	Width: 5.8 to 8.5 inches Length: 8.3 to 14 inches	Top or Rear
Multi-Purpose Feeder	Paper: 100 sheets 20 lb.	16-28 lb.	Width: 3.4 to 8.5 inches Length: 5.5 to 14 inches	Top or Rear
	Envelopes: 50	16-28 lb.	Com 10, Com 9, Monarch, DL, C4, C5	Rear Only
Duplex		16-24 lb.	Legal, letter, A4 Executive (7.25 x 10.5 inches)	Top or Rear

Storing Paper

If paper is stored improperly, print quality could be affected.

- Store paper in a dark, dry place such as a closet or a cabinet.
- Don't open the package until you are ready to use it.
- Always store paper lying flat or it may curl.
- Store your paper in a static-free environment.
- Ideally, store paper at a constant temperature of 70°F (21.1°C) with less than 50% humidity.
- Discard the top sheet from each ream of paper before loading it into the paper tray – it may be contaminated with glue or dust.

Feed Paths

Paper can be supplied to the printer in four ways:

- From the paper tray, which holds up to 530 sheets of 20-lb. paper

- From the 100-sheet Front Feeder

- From the *optional* 100-sheet/50 envelope multipurpose feeder

- From the *optional* paper expansion tray which holds up to 530 sheets of 20-lb. paper

The paper tray will accommodate 16 to 28 lb. paper within the following size ranges:

- Width: 3.4 to 8.5 inches (86.4 to 216 mm)
- Length: 5.5 to 14 inches (140 to 355.6 mm)

Exit Paths

The OKIPAGE 18/24DX has two paper exit paths:

- **Top Exit:** the normal exit used for routine printing

- **Rear Exit:** used for special types of print media such as envelopes, labels, transparencies, etc.

Top Paper Exit

The top paper exit is the one normally used for routine printing.

- Printed pages feed face down into the bin on top of the printer.
- The bin holds 250 sheets of 20 lb. paper.
- Pages stack in the correct order.
- When the bin is full, STACKER FULL REMOVE THE PAPER displays in the control panel window and printing will stop until the paper is removed.

To use the top paper exit:

1 Lift out the paper catcher and pull it toward the front of the printer until it stops.

2 Flip up the extender.
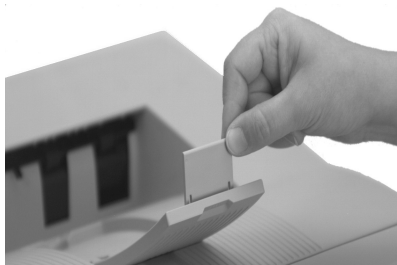
Rear Paper Exit

Use rear exit when printing on heavy paper, envelopes, labels, and transparencies.

- Printed pages feed face up into the rear tray.
- The tray holds a maximum of 100 sheets of 20 lb. paper or 10 envelopes.
- Pages stack in reverse order.
- To avoid paper jams, remove paper when rear exit tray is full.

To use rear paper exit:

! *Caution: Do not extend the rear exit tray while printing: a paper jam may occur.*

1 Pull the tray down.

2 Pivot out the extenders.

Paper Tray

Load the Paper Tray

1 Pull out the paper tray.

2 Adjust the rear and side paper guides before loading paper. This will help to avoid paper jams.
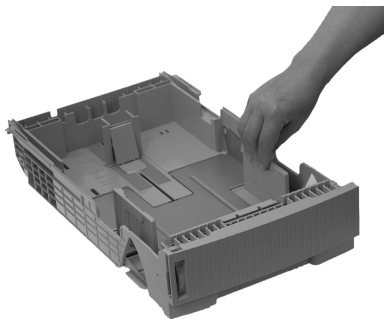
3 Fan a stack of paper (up to 530 sheets of 20-lb. paper) and place it in the tray under the tabs.
Do not fill above the PAPER FULL marks.
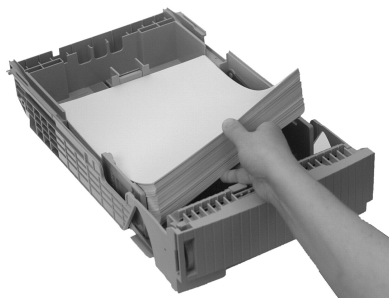
4 Push the tray into the printer until it locks.

▽ PAPER FULL ▽

The Paper Tray Gauge
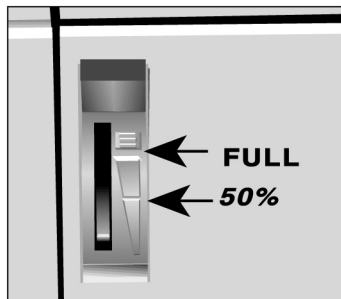
The paper tray gauge indicates the amount of paper left in the tray. This eliminates having to open the tray to check how much paper remains.

Front Feeder

General Information

Use the front feeder to print on special media without having to change the paper you have loaded in the tray(s). You can print up to 100 pieces of media or you can use the front feeder as a manual feed unit to print individual pieces of media "on-the-fly."

For media other than standard paper, you must use the rear paper exit. This eliminates curling, and for labels, it eliminates peeling.

You can use the front feeder to print on the following media:

- **Standard weight paper** that is different from the paper loaded in the paper tray: e.g., letterhead, different size
  - Up to 100 sheets
  - 16 to 28 lb.
  - Letter, 13" & 14" Legal, Executive, A4, A5, B5, C5 (minimum 3.4" x 2.8"; maximum 8.5" x 14")
  - Use either top or rear paper exit path

- **Envelopes**
  - Up to 10 envelopes
  - 16 to 28 lb.
  - Com 10, Com 9, Monarch, DL, C4, C5
  - Use envelopes that have seams that run down the sides and squared-off flaps: envelopes with v-type flap are *not* recommended.
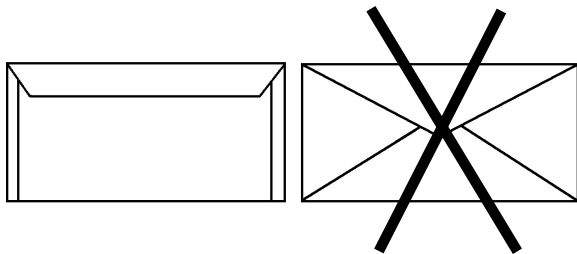
- Use envelopes with a smooth, even surface that are designed for laser printers: *no metal clasps, snaps, windows, or self-adhesive flaps*
- Use rear paper exit only

- **Labels**
  ! **Important: Carrier sheet and label adhesive must withstand the fusing process heat of 392° F (200°C) for 1 second. Label adhesive must not be exposed; if it is, it will cause jamming in the printer.**
  - Up to 100 sheets
  - Letter or A4
  - Use label sheets designed for laser printers
  - *Labels must cover the entire carrier sheet.*
  - Use rear paper exit only

- **Transparencies** (up to 100 sheets)
  ! **Important: Transparencies must withstand the fusing process heat of 392° F (200°C) for 1 second without wrinkling or gumming up.**
  - Letter or A4
  - Use transparencies designed for laser printers
  - Use rear paper exit only

- **Heavy weight paper** such as index or card stock
  - Up to 100 sheets
  - Up to 36-lb.
  - Letter, 13" & 14" Legal, Executive, A4, A5, B5, C5 (minimum 3.4" x 2.8"; maximum 14")
  - Use rear paper exit only

Loading Multiple Media Pieces

Using the Front Feeder to Print Multiple Pieces of Media

To set up the printer for multiple-piece print jobs using the front feeder:

1 In your software program:

    a.   Enter the printer setup menu.

    b.   Select front feeder.

    c.   Select the media type, size and orientation.

2 Lower the printer's front feeder.

3 Flip out the tray, then pivot out the extender.

4 Enter the Level-1 menu and make changes:

    a.   Press the ON LINE button (printer goes off line).

    b.   Press MENU 1/*Menu 2* until **TRAY SELECT** displays.

    c.   Press ENTER.

    d.   Make sure that MANUAL FEED is set to OFF (the factory default), then press ENTER.

    e.   Press MENU 1/*Menu 2* (display reads **PAPER FEED**).

    f.   Press ▶/*Reset* until the display reads **FRONT TRAY**, then press ENTER to engage the setting (an asterisk appears next to **FRONT TRAY**).

    g.   Press ON LINE to return the printer to on-line status.

! *When you are done printing using the Front Feeder, reenter the Level-1 menu and change the PAPER FEED setting back to its former setting (normally TRAY 1).*

5 Open the rear paper exit path (not required for standard weight paper).

6 Adjust the front feeder paper width guides for the media you are using and load the print media.

! *Insert letterhead paper face-up, with the top edge of the paper pointed into the printer.*

7 Send the print job.

!   *The software application will override the printer menu settings.*

Loading Single Sheets (Manual Feed)

You can open up the Front Feeder and use it as a manual feeder to print an individual piece of standard paper, an envelope, or specialty print media, without having to change any of the menu settings.

Manual Feed: Standard Paper

Setting up Manual Feed for Standard Weight Paper

1 In your software program:

    a.   Enter the printer setup menu.

    b.   Select Manual Feed.

    c.   Select the paper size and orientation.

2 Lower the printer's Manual Feeder.

3 Flip out the tray, then pivot out the extender.

4 Adjust the paper width guides.

5 Load a sheet of paper.

! *Insert letterhead paper face-up, top edge of paper in first.*

6 Send the print command from your software.

7 When prompted by the printer's display, press the FORM FEED button on the printer control panel.

The page prints.

Manual Feed: Envelopes

! *Use rear paper exit to avoid curling*

! *Do **not** use v-flap type envelopes (see "General Information")*

To print an envelope:

1 In your software program:

    a.   Enter the printer setup menu.

    b.   Select Manual Feed.

    c.   Select the envelope size.

    d.   Select landscape orientation.

2 Lower the rear paper exit tray and pull out the rear exit extender.

3 Lower the front feeder.

4 Flip out the manual feed tray, then pivot out the extender.

5 Adjust the paper width guides.

6 Insert the envelope with return address on lower left side and flap underneath.

7 Send the print command from your software.

8 When prompted by the printer's display, press the FORM FEED button on the printer control panel.

The printed envelope will exit at the rear.

Manual Feed: Labels

! *Sheet and label adhesive must withstand the fusing process heat of 392°F (200°C) for 1 second.*

Label adhesive must not be exposed; if it is, it will cause jamming in the printer.

- Labels must cover the entire carrier sheet.
- Use rear paper exit to avoid peeling.

To print labels:

1 In your software program:

    a. Enter the printer setup menu.

    b. Select Manual Feed.

    c. Select the label sheet size.

2 Lower the rear paper exit tray and pull out the rear exit extender.

3 Lower the front feeder.

4 Flip out the tray, then pivot out the extender.

5 Adjust the paper width guides.

6 Insert the label sheet face up.
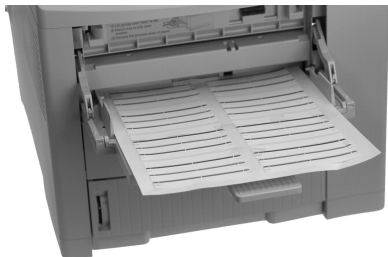
7 Send the print command from your software.

8 When prompted by the printer's display, press the FORM FEED button on the printer control panel.

The printed label sheet will exit at the rear.

Manual Feed: Transparencies

! *Transparency must withstand the fusing process heat of 392°F (200°C) for 1 second without wrinkling or gumming up.*

• Use transparencies designed for laser printers.
• Use rear paper exit to avoid curling.

To print a transparency:

1 In your software program:

    a.   Enter the printer setup menu.

    b.   Select Manual Feed.

    c.   Select the transparency size.

2 Lower the rear paper exit tray and pull out the rear exit extender.

3 Lower the Front Feeder.

4 Flip out the tray, then pivot out the extender.

5 Adjust the paper width guides.

6 Insert the transparency with the side to be printed facing up.
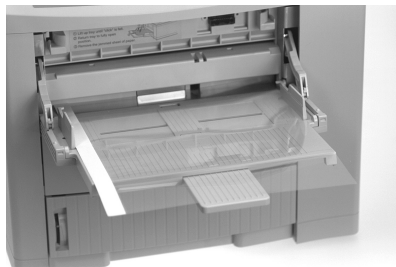
7 Send the print command from your software.

8 When prompted by the printer's display, press the FORM
FEED button on the printer
control panel.

The printed transparency will exit at the rear.

Manual Feed: Heavy (Card) Stock

Heavy (Card) Stock Specifications

- Weight range : 28 - 36 lb.
- Use rear paper exit to avoid curling

! *To maximize print quality, see Adjusting Print Quality*
for the proper printer menu settings.

To print heavy stock:

1 In your software program:

   a.   Enter the printer setup menu.

   b.   Select Manual Feed.

   c.   Select the media size.

2 Lower the rear paper exit tray and pull out the rear exit
extender.
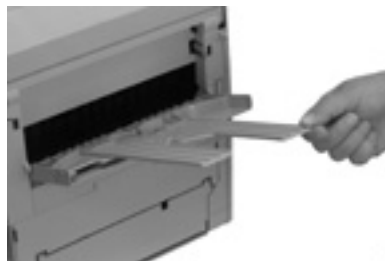
3 Lower the front feeder.

4 Flip out the tray, then pivot out the extender.

5 Adjust the paper width guides.

6 Insert the sheet of heavy stock.
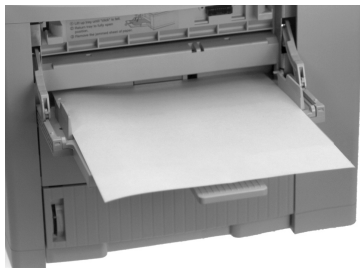
7 Send the print command from your software.

8 When prompted by the printer's display, press the FORM FEED button on the printer control panel.

The printed sheet will exit at the rear.

Duplex Printing

! *This section applies only to the OKIPAGE 24DX/ 24DXn, or OKIPAGE 18 with the optional duplex feeder factory installed.*

Portrait Versus Landscape

Portrait   Landscape
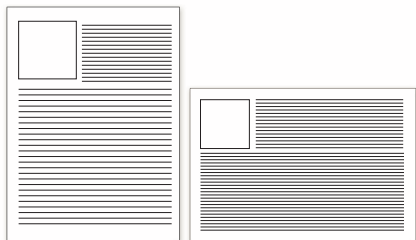
Duplex Printing: Windows® 3.1x

The duplex print options are in the **Document Properties** dialog box.

Example:

In Windows 3.1x, to select duplex printing in Microsoft Word:

1 Select **Print** from the **File** menu.
2 Click **Printer**.
3 Click **Options**.
4 Select the **Paper Input** tab.
5 Click **Duplex**.
6 Select the duplex print method:
   Join top to bottom (landscape printing)
   Join left to right (portrait printing)
7 Click **OK**.
8 Click **OK**.
9 Click **Close** and send the print job.

Duplex Printing: Windows 95

The duplex print options are in the **Document Properties** dialog box.

Example:

In Windows 95, to select duplex printing in Microsoft Word:

1 Select **Print** from the **File** menu.
2 Click **Properties**.
3 Select the **Paper** tab.
4 Click **Duplex**.
5 Select the duplex print method:
   Join top to bottom (landscape printing)
   Join left to right (portrait printing)
6 Click **OK**.
7 Click **OK** and send the print job.

Setting Duplex Printing as the Default in Windows 95:

1 Click **Start**, **Settings**, **Printers**.
2 Click the *right* mouse button on the driver icon.
3 Click **Properties**.
4 Select the **Paper** tab.

5 Click **Duplex**.
6 Select the duplex method you wish to use as the default.
7 Click **OK**.
8 Click **OK**.

Duplex Printing: Windows NT 4.0

The duplex print options are in the **Document Properties** dialog box.

Example:

In Windows NT 4.0, to select duplex printing in Microsoft Word:

1 Select **Print** from the **File** menu.
2 Click **Properties**.
3 Select the **Advanced** tab.
4 Click **Paper/Output** in the box.
5 Click **Print on Both Sides (Duplex Printing)**.
6 Select the duplex print method:
   Short Side (landscape printing)
   Long Side (portrait printing)

7 Click **OK**.

8 Click **OK** and send the print job.

Setting Duplex Printing as the Default in Windows NT 4.0:

1 Click **Start**, **Settings**, **Printers**.

2 Click the *right* mouse button on the driver icon.

3 Click **Document Defaults**.

4 Select the duplex method you wish to use as the default.

5 Click **OK**.

6 Click **OK**.

Duplex Printing: Windows 98

The duplex print options are in the **Document Properties** dialog box.

Example:

In Windows 98, to select duplex printing in Microsoft Word:

1 Select **Print** from the **File** menu.

2 Click **Properties**.

3 Select the **Paper** tab.

4 Click **Duplex**.

5 Select the duplex print method:

Join top to bottom (landscape printing)

Join left to right (portrait printing)

6 Click **OK**.

7 Click **OK** and send the print job.

Setting Duplex Printing as the Default in Windows 98:

1 Click **Start**, **Settings**, **Printers**.

2 Click the *right* mouse button on the driver icon.

3 Click **Properties**.

4 Select the **Paper** tab.

5 Click **Duplex**.

6 Select the duplex method you wish to use as the default.

7 Click **OK**.

8 Click **OK**.

Duplex Printing: Macintosh

OKIPAGE 18

Duplex printing is optional for the OKIPAGE 18. You cannot select duplex printing unless the optional duplex unit is installed. Once installed, activate the duplex option using the following procedure:

1 Select **Chooser** from the Apple menu.

2 In the Chooser screen, select the **AdobePS** icon.

3 Highlight the OKI Printer from the printer list and select **setup**.

4 In the setup screen, select the PostScript Printer Description (PPD) for OKI OKIPAGE 18 PS and click **Select**.

5 In the **Configure** menu, set the Duplex option to **Installed**.

6 Follow the instructions on your screen to exit the Chooser.

To select layout and binding:

1 Select **File** and **Print desktop**.

2 Click **General** and select **Layout**.

3 Check **Print on both sides** and select **Binding**. The default is *none*.

4 Save settings.

OKIPAGE 24DX

Duplex printing is a default feature of the OKIPAGE 24DX. To select layout and binding:

1 Select **File** and **Print desktop**.

2 Click **General** and select **Layout**.

3 Check **Print on both sides** and select **Binding**. The default is *none*.

4 Save settings.

Selecting Duplex in Your Application (OKIPAGE 18 & 24DX)

In applications like Microsoft Word, do the following:

1 Select **File** and **Print**.

2 Select **Layout**.

3 Click **Print on both sides**.

4 Select **Binding**.

5 Select **Print**.

Automatic Tray Switching

To increase the paper feed capacity, you can set the printer to automatically feed paper from the front feeder when the paper tray empties (or from any of the optional accessories).

To do this:

1 Press ON LINE.

   The printer goes off-line.

2 Press MENU 1/*Menu 2* to enter the Menu Mode.

3 Press MENU 1/*Menu 2* again to move to the TRAY SELECT category.

4 Press ENTER.

5 Press MENU 1/*Menu 2* twice to move to the AUTO TRAY SWITCH item.

6 Press ▶/*Reset* once to get to the ON selection.

7 Press ENTER to engage the ON selection.

   An asterisk appears next to ON.

8 Press ON LINE to exit the Menu Mode.

❗ *Paper tray size settings in your application software override the printer's front operator panel settings.*

If all paper sources have the same paper size selected, the printer will normally feed paper in the following sequence:

(1) the first tray

(2) the paper expansion tray (if installed)

(3) the second paper expansion tray (if installed)

(4) the front feeder

(5) the multipurpose feeder (if installed).

If any paper tray has a different size paper selected, it will be skipped.

If you wish to change the sequence, use the Maintenance Menu (see "The User Maintenance Menu" in the Printer Control chapter).

Problem Solving

Most of the printing difficulties you might encounter have a simple solution. This chapter can help you troubleshoot problems concerning:

- Paper jams
- Printer messages
- Print quality
- Software
- Hardware

If you are unable to solve your printer problem, see Appendix A for Service and Support information.

Paper Jams

If a paper jam occurs, a message displays that indicates the location of the jam. Once the jam is cleared, the top cover is closed and warming up is complete, the printer reprints the page affected by the jam, then continues to print the remaining pages.

Paper Jam Messages

PAPER INPUT JAM

Paper jammed as it was being fed in from the paper tray or other source.

PAPER FEED JAM

Paper jammed somewhere between the input and the paper exit.

PAPER EXIT JAM

Paper jammed as it was exiting the printer.

DUPLEX INPUT JAM

Paper jammed as it was being handled in the duplex unit.

DUPLEX OPEN JAM

Paper tray was opened as the paper was being fed through the duplex feeder.

DUPLEX FEED JAM 1

Paper jammed as it was being fed to the reverse roller in the duplex feeder.

DUPLEX FEED JAM 2

Paper jammed as it was being reversed in the duplex feeder.

DUPLEX FEED JAM 3

Paper jammed as it was being fed through the duplex feeder.

Why Paper Jams Occur

Reason: The paper tray is overloaded.

Corrective Action: *Do not fill the tray above the PAPER FULL mark.*

Reason: Paper is too heavy, too light, or contains excess cotton content.

Corrective Action: *Switch papers and use the recommended stock.*

Reason: Paper is too moist or too dry, causing missfeeds and imaging problems.

Corrective Action: *Store paper in average humidity, reseal opened reams. In areas of extreme dryness or humidity, do not leave paper in the tray overnight.*

Reason: Rear paper exit tray may not be fully extended.

Corrective Action: *Check to be sure that the rear exit tray is fully extended.*

Reason: Rear exit tray was lowered while a job was printing.

Corrective Action: *Resend the print job after lowering the rear exit tray.*

Reason: Paper tray was opened while paper was feeding through the duplex feeder (optional on OKIPAGE 18).

Corrective Action: *Remove the jammed sheet from the duplex feeder, then reinstall the paper tray and resend the print job.*

Clearing a Paper Input Jam

PAPER INPUT JAM
CHECK TRAY1

1 Slide out the paper tray.

2 Remove the sheet that did not feed, then inspect the remaining sheets to see that they are not wrinkled or stuck together.

3 Close the paper tray.

4 Press the OPEN button, then open and close the top cover to clear the paper jam message.
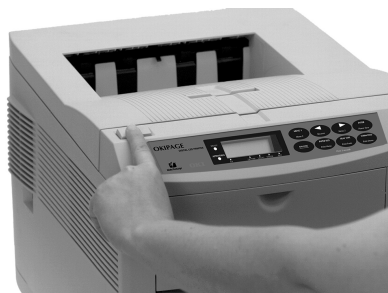
Clearing a Paper Feed Jam

PAPER FEED JAM
CHECK TRAY1

1 Press OPEN and lift the cover.

2 Lift out the image drum cartridge (*Careful! Avoid touching the shiny green drum area!*) and place it on a smooth, flat surface.

! *Caution: The fusing unit may be HOT!*
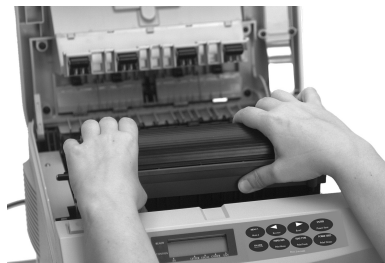
3 Carefully remove the jammed paper.

4 Put the image drum cartridge back into the printer.

5 Close the cover.

Clearing a Paper Exit Jam

PAPER EXIT JAM
REMOVE THE PAPER

1 Press OPEN and lift the top cover to release roller pressure.
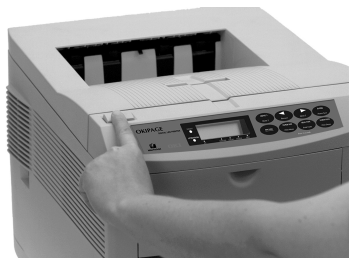
2 Pull the jammed paper out from the rear exit.

! *Caution: The fusing unit may be HOT!*
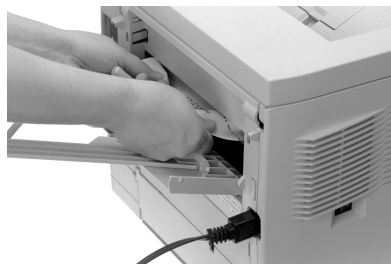
3 *If the paper will not release,* try carefully pulling it out from inside the printer.
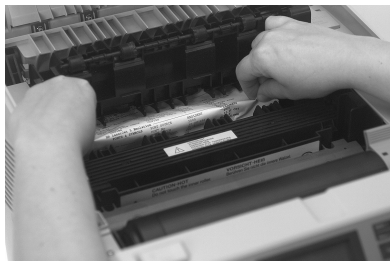
4 Close the printer cover.

Duplex Feeder Paper Jams

Clearing Duplex Feeder Input Jams

DUPLEX INPUT JAM
REMOVE THE PAPER

To clear a Duplex Feeder Input paper jam, follow steps 1 through 4 under "Clearing a Paper Input Jam" earlier in this chapter.

Clearing a Duplex Feeder Open Jam

DUPLEX OPEN JAM
REMOVE THE PAPER

1 Press the OPEN button and open the top cover.
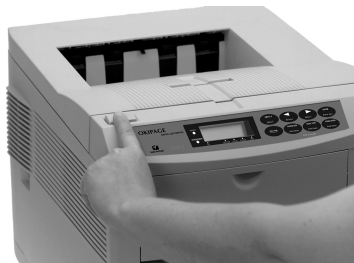
2 Carefully pull the sheet from inside the printer.

! *Caution: The fusing unit may be hot!*

3 Close the printer cover.

Clearing Duplex Feeder Jams 1 & 2

DUPLEX FEED JAM1   DUPLEX FEED JAM2
REMOVE THE PAPER   REMOVE THE PAPER

1 Remove the paper tray.

2 Remove the jammed sheet from the back of the printer.
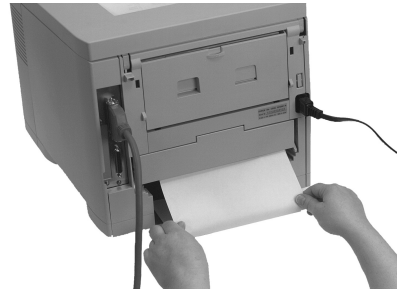
3 Replace the paper tray.

4 Press the OPEN button, then open and close the top cover to clear the paper jam message.
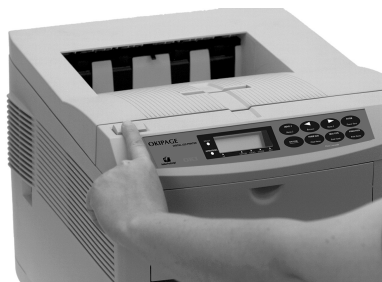

Clearing Duplex Feeder Jam 3

DUPLEX FEED JAM3
REMOVE THE PAPER

1 Remove the paper tray.

2 Reach in the front of the printer and pull the jammed sheet out of the Duplex Feeder.

4 Press the OPEN button, then open and close the top cover to clear the paper jam message.

3 Replace the paper tray.

Print Quality Problems

Before consulting a service representative regarding a print quality problem, check the problems listed below to see if there is a solution or something you might have overlooked.

Blank sheets printed.

Reason: Image drum cartridge may have been exposed to light, or LED array or image drum contacts may have failed.

Solution: Leave image drum cartridge in total darkness for several hours. If this fails to restore it, install a new image drum cartridge.

Reason: Empty or missing toner cartridge.

Solution: Install new toner cartridge.

Entire page prints faintly.

Reason: Empty toner cartridge. Pages get fainter after toner is used up.

Solution: Install new toner cartridge.

Reason: LED array is dirty.

Solution: Clean the LED array.

Page has gray background.

Reason: Static electricity causes toner to stick to background

Solutions: Change papers to an acceptable laser bond and use a humidifier. If this does not work, generate a drum cleaning page. See "Generating a Drum Cleaning Page" for details.

Reason: Image drum has been exposed to light.

Solution: Leave image drum cartridge in total darkness for several hours. If this fails to restore it, install a new image drum cartridge.

Page prints all black.

Reason: Hardware problem

Solution: Contact your service representative.

Page has repeating marks.

Reason: Excess toner in paper path.

Solution: Generate a drum cleaning page. See "Generating a Drum Cleaning Page" for details.

Reason: Damaged image drum cartridge causes repetitive marks due to surface nicks and scratches.

Solution: Install new image drum cartridge.

An oblong area of faint print appears on each page.

Reason: "Dropout" caused by using cotton bond paper in high humidity. Moisture has affected paper.

Solution: Change to a different type of paper or use a dehumidifier; check toner.

Vertical white streaking or faint areas on page.

Reason: Toner is low and does not distribute properly or the drum is worn out.

Solutions: Replace the toner cartridge. If this does not work, check the drum and replace if necessary.

Reason: LED array is dirty.

Solutions: Clean LED array.

Faded vertical stripes

Reason: LED array is dirty.

Solution: Clean the LED array.

Vertical black lines

Reason: Toner is low.

Solution: Replace toner cartridge.

Reason: Scratched image drum.

Solution: Replace the image drum cartridge.

Reason: Hardware problem.

Solution: Contact service representative.

Fuzzy print

Reason: LED array is dirty.

Solution: Clean the LED array.

Distorted print

Reason: Paper path lamp assembly or fusing unit problem.

Solutions: Generate a drum cleaning page. If this does not work, contact your service representative.

White blotches or faded gray areas and temperature or humidity is high or low.

Reason: Difficult environment.

Solution: Check toner. If okay, adjust settings in Maintenance Menu.

Faded print after installation.

Reason: Toner cartridge is not correctly installed.

Solution: Install toner cartridge correctly.

Print is smeared or blotched.

Reason: Dirty or defective fuser assembly or other hardware problem.

Solutions: Generate the drum cleaning page. If this does not work, contact your service representative.

Printed page is light or blurred.

Reason: Toner is low.

Solution: Replace toner cartridge.

Reason: Paper used is not designed for laser printers.

Solution: Switch to a recommended paper.

Reason: LED array is dirty.

Solution: Clean LED array.

Bold characters and dark lines are smeared.

Reason: Toner is low.

Solution: Replace toner cartridge.

Print is darker than usual.

Reason: Darkness setting is too high.

Solution: Change Darkness setting in Menu.

Pages curl excessively

Reason: Printing on wrong side of paper.

Solutions: Turn paper over in tray. When installing paper, make a note of the print side arrow on the paper package, then install the paper "print side down" in the paper tray.

Reason: Moisture in paper. Improper storage.

Solution: Avoid storing paper in areas of excessive temperature changes and humidity.

Reason: High humidity.

Solution: Recommended operating humidity is 20-80%.

Adjusting Print Quality

The following items in the printer menus can be set to adjust print quality. See the Printer Control chapter for more information.

Level-1 Menu

MEDIA TYPE

    TRAY1

    TRAY2 (appears only if paper expansion tray option is installed)

    TRAY3 (appears only if second paper expansion tray option is installed)

    FRONT/MANUAL

    MULTIFEEDER (appears only if optional multipurpose feeder is installed)

Specify a paper weight of Light, Medium Light, Medium, Medium Heavy, or Heavy for the appropriate paper feed source to improve print quality and toner fusing.

Level-2 Menu

PRINT MODE

    RESOLUTION

    Set resolution in dots per inch.

DARKNESS CONTROL

    DARKNESS

    Set darkness of characters.

TONER SAVING

    Lower print quality to reduce toner consumption: engage only for proofs and rough drafts.

Maintenance Menu

SETTING

    Make adjustments for difficult environment or rough/thick paper.

Software Problems

Most printer features are controlled by your software application. For more information, see your software documentation or contact your software vendor.

Here are solutions to common problems related to software:

Blank pages appear between printed pages

Reason: Number of lines per page in software is not equal to number of lines per page of printer.

Solution: Many software packages assume 66 lines per page; your printer default is 60. Adjust software accordingly or set LINES/Pg in Menu 1 to equal lines per page in software.

Cannot get justified right margin with a proportionally spaced font

Reason: Right justification with proportional fonts is a software feature.

Solution: Check your software manual to see if this feature is supported.

Control codes not operating correctly

Reason: Incorrectly entered control codes.

Solution: Check for confusion of the lower case letter l with the number 1, the upper case letter O with the number 0; make sure you are using upper/lower case correctly; make sure font is specified correctly and is available.

Data sent to printer does not print but DATA message appears

Reason: A form feed has not been sent.

Solution: Press the ON LINE button to take the printer off-line, then press FORM FEED to eject the final page, or send a FF command (decimal character 12). If desired, set AUTO EJECT in MENU 2.

Last page of document is not printed

Reason: No form feed provided at end of document.

Solution: Press ON LINE to take the printer off-line, then press FORM FEED to eject the final page or send the form feed code (decimal character 12). If desired set AUTO EJECT in MENU 2.

First line on page won't print

Reason: Tops of letters extend into unprintable area so they don't print.

Solution: Set your margins in software to print within the printable area. (1/4" from physical edge of paper.)

Graphics won't position properly

Reason: Wrong reference point being used.

Solution: Take measurements from the printable area, not from the physical edges of the page.

Parts of documents are missing at the edges of the printed page

Reason: Software is attempting to print beyond the printer's maximum image area.

Solution: Adjust software page margins to printer's maximum margins (8.25", x 10 .75" for standard sheets).

Parts of control codes are printed at the beginning of documents

Reason: Command sent is not a true printer command generally because the ESC character was not sent.

Solution: Before sending control codes through an application, make sure the ESC character can be entered and is entered properly.

Print job started with italics changed to bold but italics still output

Reason: Font selection is by priority bold and italic is higher than bold.

Solution: Turn italics off before turning bold on.

Printer ignores control codes sent prior to printing a document

Reason: The application software automatically sends a reset command before printing.

Solution: Embed the control codes in the text to be printed.

"Garbage" prints

Reason: Incorrect driver is installed.

Solution: Install the appropriate driver (See the Quick Start Guide)

Printer's output is below rated speed

Reason: Delays are caused by software formatting routines graphics downloads, and other application-specific factors.

Solution: Add RAM, reduce resolution, or set host computer's ECP parallel port to on. For maximum speed, output plain text.

Size of top margin increases with each page printed

Reason: "Creeping text." Number of lines per page in software is not equal to number of lines per page of printer.

Solution: Many software packages assume 66 lines per page but printer's default is 60. Adjust software accordingly or set LINES/PG in Menu 1 to equal lines per page in software.

Strange symbols appear during normal printing

Reason: Wrong symbol set.

Solution: Make sure the symbol set selected corresponds to symbol set resident, or soft font.

Hardware Problems

Certain error messages (See "Printer Messages" at the beginning of this chapter) indicate a hardware problem. Other possible hardware problems are listed below:

Graphic image prints partly on one page partly on the next

Reason: Insufficient printer memory for image at set resolution.

Solution: Change the resolution, reduce the image size, or install more memory.

Nothing happens but printer indicates it is ready to receive data

Reason: Configuration error.

Solution: Check cable connection. If more than one printer is available, make sure your printer is selected. Make sure printer is on-line.

"Garbage" prints

Reason: Incorrect cable configuration. (Also see "Software Problems".)

Solution: Check cable signal continuity and length.

Printer freezes or displays error message when computer is rebooted

Reason: Booting the computer while the printer is on can cause a communications error.

Solution: Take printer off-line before rebooting computer.

Odors

Reason: Gases are given off by forms or adhesives passing through the printer's fusing unit.

Solution: Make sure the forms you use can withstand heating; provide adequate ventilation.

Change Drum message appears after only 4000 to 5000 pages are printed

Reason: Drum counter was not reset when the drum was replaced.

Solution: Reset the drum counter (see "Replacing the Image Drum Cartridge" in the Maintenance chapter). Always reset the drum counter when replacing the image drum.

Display Messages

The control panel window displays messages about your printer's operating conditions.

CHANGE DRUM

Appears on second line of display to indicate that the drum is near 90% of life. Change drum and reset drum counter.

! *If the drum counter is not reset when you replace the drum, the CHANGE DRUM message will appear at the next "toner low" condition. See "Replacing the Image Drum Cartridge" in the Maintenance chapter.*

COPY nnn/mmm

Indicates number of copies being printed.

nnn = page being printed.

mmm = total copies requested.

COVER OPEN

Close cover.

DATA PRESENT .xxx

Print data is in buffer. xxx = emulation

DRUM CLEANING

Drum cleaning page is printing.

DUPLEX INPUT JAM
REMOVE THE PAPER

Paper has jammed when entering duplex feeder. Remove jammed paper, then open and close cover.

DUPLEX INPUT JAM1
REMOVE THE PAPER

Paper has jammed when being fed to reverse roller in duplex feeder. Remove jammed paper, then open and close cover.

DUPLEX INPUT JAM2
REMOVE THE PAPER

Paper has jammed in the duplex feeder. Remove jammed paper, then open and close cover.

DUPLEX INPUT JAM3
REMOVE THE PAPER

Paper has jammed in the duplex feeder. Remove jammed paper, then open and close cover.

DUPLEX OPEN JAM
REMOVE THE PAPER

Paper jammed as it entered the duplex feeder. Remove jammed paper, then open and close cover.

EEPROM RESETTING

EEPROM resetting to factory defaults. Returns to online.

ERROR
nn

Printer error. Try turning the printer off, then on again. If this doesn't clear the error, write down the error number nn and contact your service provider.

ERROR CONTROLLER
nn -aaaaaaaa

Controller error. Try turning the printer off, then on again. If this doesn't clear the error, write down the error number nn and contact your service provider.

ERROR HOST I/F
RS232C

Serial interface error. Press RECOVER to continue. Check the protocol of both the PC and the printer. Resend job.

ERROR MEMORY OVERFLOW

Page data exceeds available memory. Press RECOVER to continue. Adjust RASTER BUFFER, RECEIVE BUFFER, and/or FONT PROTECT in Menu and resend job.

ERROR PAPER SIZE CHECK tttttttt

Incorrect paper size detected for tray tttttttt. Provide correct paper size in tray. Open and close cover to continue.

ERROR PRINT OVERRUN

Data too complex for current RASTER BUFFER Setting. Increase RASTER BUFFER value and resend job, or add memory. Press RECOVER to continue.

ERROR RECEIVE BUFFER OVERFLOW

Receive buffer overflow. Data was lost. Press RECOVER to continue. Resend job.

FLUSHING JOB

Data is being discarded as a result of command received.

FRONT TRAY ERROR PRESS RECOVERKEY

Error in manual feeder. Press RECOVER to correct.

FUSER LIFE

Appears on second line of display to indicate that the fuser is near end of life. Contact your service dealer.

INITIALIZING

Controller is being initialized at power on.

Mmmmm MANUAL
yyyyyyyy REQUEST

Insert requested paper. Printing is stopped until paper is provided or RECOVER is pressed.

Mmmmm = requested size

yyyyyyyy = requested paper media (paper, envelope, etc.)

Mmmmm ttttttt
PAPER REQUEST

Paper size mmmmm requested at tray ttttttt. Printing is stopped until paper is provided or RECOVER is pressed.

OFF-LINE   .xxx
Mmmmm   ttttt

Not ready to receive data. xxx = emulation. Mmmmm = SIMPLEX or DUPLEX (on OKIPAGE 18, appears only if optional duplex feeder is installed). ttttt = paper tray selected

ON-LINE   .xxx
Mmmmm   ttttt

Ready to receive data. xxx = emulation. Mmmmm = SIMPLEX or DUPLEX (on OKIPAGE 18, appears only if optional duplex feeder is installed). ttttt = paper tray selected

PAPER EXIT JAM
REMOVE THE PAPER

Paper jammed during exit. Clear jam and open/close top cover.

PAPER FEED JAM
CHECK ttttttt

Paper jammed during feeding from tray ttttttt. Clear jam and open/close top cover.

PAPER INPUT JAM
CHECK ttttttt

Paper jammed while being supplied from tray ttttttt. Clear jam and open/close top cover.

PAPER NEAREND Tn

Indicates only about 20 sheets left in tray Tn.

PAPER OUT
mmmmm   ttttttt

Paper size mmmmm is out at tray ttttttt. Printing is stopped until paper is loaded.

POWER SAVING

Flashes on second line of display to indicate that printer is in power saving mode.

PRESS FORM FEED
TO EJECT

Memory overflow has occurred. Press FORM FEED to eject paper.

PRINT DEMO PAGE

Demo page is printing.

PRINT FONTS

Typeface List page is printing.

PRINT MENU

Menu page is printing.

PRINTING

Data is being received and printed.

PROCESSING .xxx

Data being received or processed. xxx = emulation

RESET

Manual reset was initiated. All temporary fonts and macros are deleted.

RESET TO FLUSH

Printer was switched to off-line with data in buffer. Press RESET to delete data.

RESET TO SAVE

Press ▶/Reset to save menu changes. Menu changes cannot be reset automatically because data is present in buffer.

STACKER FULL
REMOVE THE PAPER

Rear paper exit bin is full. Printing is stopped until paper is removed.

TONER EMPTY
REPLACE TNR CART.

Toner cartridge is virtually empty and must be changed to avoid print deterioration.

TONER LOW

Appears on second line of display to indicate that toner is running out. About 100 more pages can be printed after this message first appears.

TONER SENSOR

Appears in second line of display to indicate that a malfunction of toner sensor has been detected.

tttttt INSTALL

Tray tttttt is pulled out: reinsert tray.

Purchasing Supplies

Before you order, know your printer model number (see the front of the printer) and have the correct part number and description of the item.

Ways to Purchase
- Consult the dealer where you purchased your printer.
- Consult an Okidata Authorized Sales or Service Dealer.
- Call 1-800-OKIDATA for the nearest Authorized Sales and Service location. Have your ZIP code ready for our Customer Support Representatives.
- Order toll-free by phone at 1-800-OKIDATA (1-800-654-3282), using VISA, MasterCard or American Express.
- $10.00 minimum purchase required.
- Order on the Internet at http://www.okidata.com. Click on the "where to buy" link.
- Check office supply catalogs or your local stationery store. Most carry Okidata brand supplies.

In Canada, call 905-602-6400 to order parts: VISA and American Express are accepted.

Supply Order Numbers: Consumables
Toner Cartridge, "Type 7" (Oki P/N 40468801)

Image Drum, "Type 7" (Oki P/N 40468701)

Supply Order Numbers: Accessories

Multi-Purpose Tray   (Oki P/N 40352801)

2nd and 3rd Paper Trays   (Oki P/N 40346401)

Duplex Tray (OKIPAGE 18)   (Oki P/N 70033301)

4MB SIMM Memory Card   (Oki P/N 70032601)

8MB SIMM Memory Card   (Oki P/N 70033201)

16MB SIMM Memory Card   (Oki P/N 70035001)

32MB SIMM Memory Card   (Oki P/N 70035101)

Maintenance

This chapter explains how to replace the toner and image drum cartridges, and clean the LED array.

Replacing the Toner Cartridge

The Toner Cartridge: Type 7 (P/N 40468801)

Lower Melting Toner

For the best results, we recommend that you use genuine Oki toner, P/N 40468801, made specifically to provide the best performance from your printer. This is because the OKIPAGE 18 and 24DX printers require a special formulation toner designed to melt at a lower temperature when applied in a thin layer to the print media. Use of toners that do not have this special lower melting feature can cause potential malfunction or premature failure of the printer.

Toner Cartridge Life

Toner cartridge life depends on the page density, the percentage of each page that is printed black. An average business letter prints at between 3% and 5% density; graphics density is usually higher. The higher the print density, the more toner is used.

On the average, a toner cartridge will produce approximately 6000 sheets at 5% print density.

! *The first toner cartridge you place in your printer will only produce between 2500 and 3500 sheets. This is normal, as the new image drum reservoir and developing roller system must saturate with toner.*

Replace the toner cartridge after TONER LOW displays in the control panel window. At this point, the printer will print about 100 more sheets, then display TONER EMPTY and stop printing. Printing will resume when a new toner cartridge is installed.

To replace the toner cartridge:

1 Press the OPEN button and lift the cover.
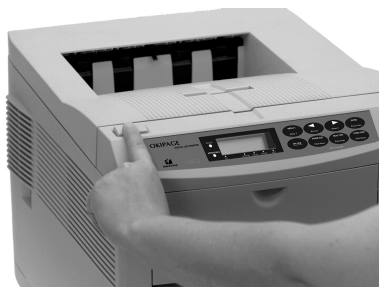
2 Pull the gray lock lever toward the front of the printer until it stops.
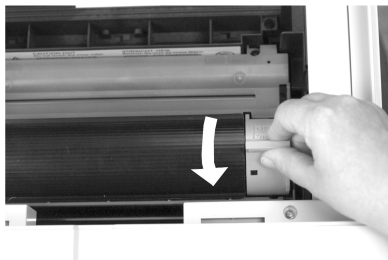
3 Lift out and discard the used toner cartridge in accordance with local regulations.

4 Remove the new toner cartridge from the foil package and shake it from side to side a few times to distribute the toner evenly.

! *CAUTION: Use of toner that does not have the low melting feature required by these printers can cause potential malfunction or premature failure of the printer.*

5 Carefully peel off the tape from the bottom of the cartridge.

6 Place left end of the toner cartridge into the toner well at an angle, aligning the recess in the end of the toner cartridge with the tab on the image drum.

7 Lower the right side of the cartridge, aligning the slot with the ridge in the image drum.

8 Push the gray lock lever toward the back of the printer until it stops.

9 Lift out the image drum and put it on a smooth, flat surface. *Be sure to protect the drum from exposure to light either by placing it in the light shield bag supplied with the printer, or by placing a sheet of paper over it.*
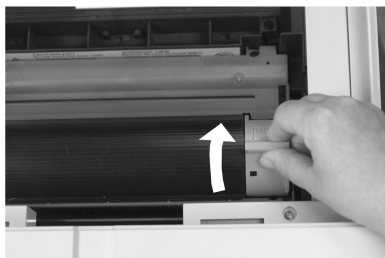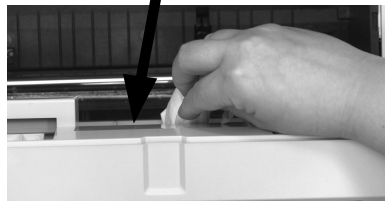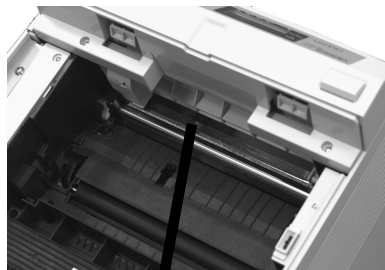
10 Use the lens cleaner supplied in the new toner kit to clean the LED array.

11 Locate the clear plastic film inside the front of the printer, then fold the lens cleaner over and use it to wipe any paper dust off the plastic film.

12 Replace the image drum and close the cover.

Replacing the Image Drum

The Image Drum: Type 7 (P/N 40468701)

Image Drum Life

The life of the image drum depends on a number of factors, including the operating temperature, humidity, the type of paper you use, and the number of pages per job. Each time you print or turn the printer on/off, the drum has to rotate to start up and to wind down. Also, frequent one-page print jobs will age your drum more quickly than multiple-page print jobs.

The image drum cartridge should normally last up to 30,000 pages for continuous printing or up to 19,000 pages at 3 pages per job. These numbers are approximate since you won't print the same number of pages each time, and environmental conditions and paper type used may vary.

When the image drum reaches 90% of its life, the CHANGE DRUM message will display in the control panel window. You should have a new image drum cartridge and a new toner cartridge on hand at this point. Change the image drum cartridge when the print becomes faint or begins to deteriorate.

**!** *To replace the image drum, you need both a new image drum cartridge and a new toner cartridge.*

Precautions

The image drum is fragile. To avoid damage to the new drum, take these precautions while handling the new image drum cartridge:

- Avoid touching the green drum surface.
- Be careful not to set the cartridge down on anything that might scratch the surface of the drum.
- Keep the drum from exposure to direct sunlight and don't let it sit in room light for more than 5 minutes.
- Leave it in the package until you are ready to install it in the printer.

To replace the image drum cartridge:

1 Press the OPEN button and lift the printer cover all the way back.
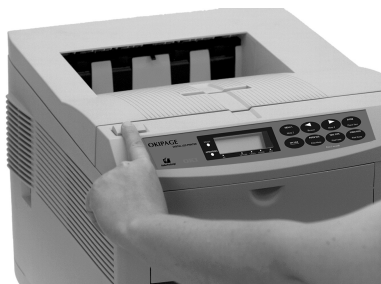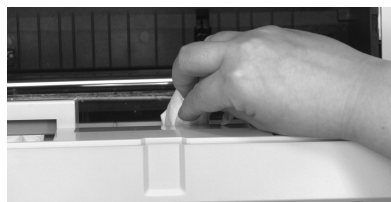

2 Lift out the used image drum cartridge with the toner installed and discard both in accordance with local regulations.

3 Open the LED lens cleaner (included with the replacement toner cartridge) and wipe the LED lens assembly clean.

4 Fold over the lens cleaner and use it to wipe any paper dust off the clear plastic film inside the front of the printer.

5 Open the new image drum package and remove the protective paper, then remove the tape and shipping insert from the toner well and discard them.
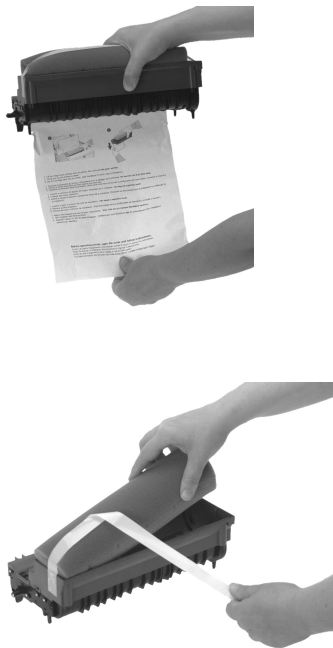
6 Install the new image drum in the printer, inserting the alignment pins on each end into the slots in the printer.
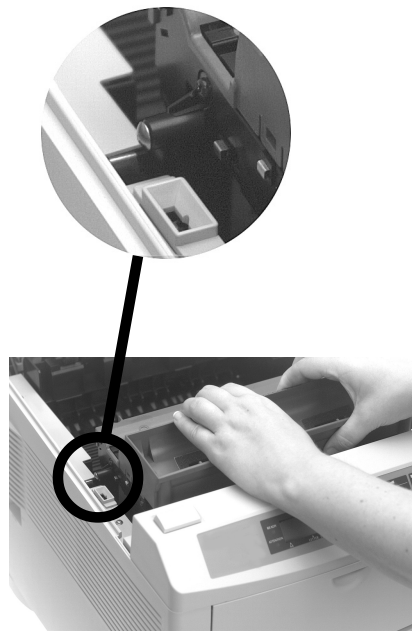
7 Remove the new toner cartridge from its package and shake it from side to side a few times to distribute the toner evenly, then carefully peel off the tape from the bottom of the cartridge.
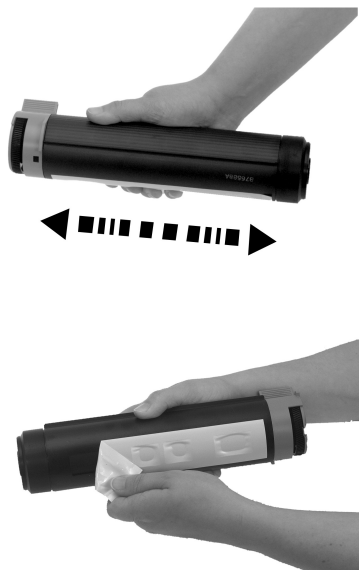
8 Place the left end of toner cartridge into the toner well, aligning the recess in the end of the toner cartridge with the tab on the image drum, then lower the right side of the toner cartridge, aligning the slot in the end of the toner cartridge with the ridge in the image drum.
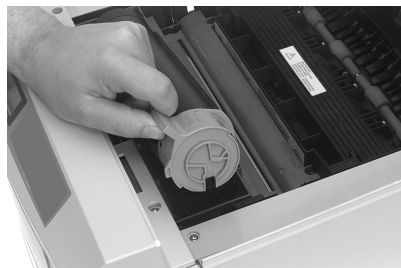
9 Push the gray lock lever toward back of the printer until it stops.
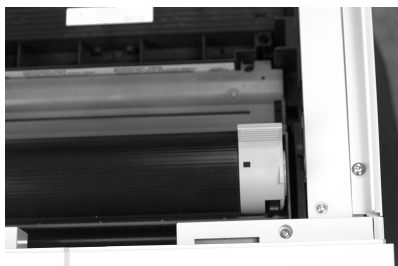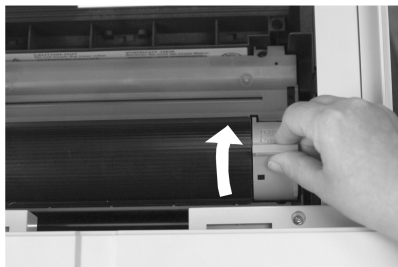
10 Close the printer cover.

11 Reset the Drum Counter:

❗ *Important: If the drum counter is not reset when you replace the drum, the CHANGE DRUM message will appear at the next "toner low" condition, long before it is actually necessary to change the drum.*

    a.   Turn the printer on while holding the MENU 1/ *Menu 2*, button.

        INITIALIZING, *then* USERMNT *displays in the control panel window.*

    b.   Press MENU 1/*Menu 2*, 3 times.

        DRUM CNT RESET *displays.*

    c.   Press ENTER.

        The counter resets.

    d.   Press ON LINE.

Cleaning the LED Array

Clean the LED array every time you install a new toner cartridge. A dirty LED array could cause faded vertical areas or light printing down a page.

1 Press the OPEN button and lift the printer cover all the way up.
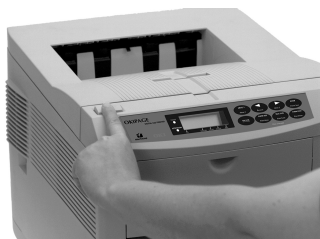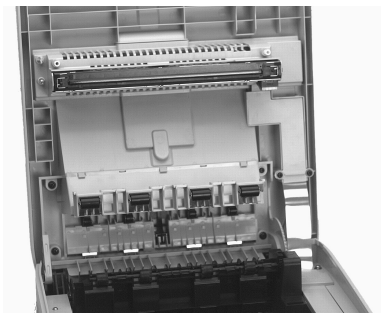

2 Locate the LED array on the underside of the cover. Remove the LED Lens Cleaner Pad (included with the Toner Kit) from the package and carefully run it along the LED array.

> **!** *If you do not have a lens cleaner pad, you can use a lint-free cloth with a little rubbing alcohol on it to clean the LED array.*

3 Close the printer cover.

> **!** *An extra LED cleaning pad is provided with each toner cartridge. Clean the LED array between toner changes if faded vertical stripes appear.*

Generating a Drum Cleaning Page

If you experience print quality problems, for example repeating marks, blotching or shading, use the drum cleaning feature. The cleaning process will remove residual impurities from printing surfaces.

To generate a drum cleaning page:

1 Press ON LINE to set the printer off-line.

2 Lower and open the Front Feeder.

Press ◀/*Recover* and ▶/*Reset* simultaneously and hold for 2 seconds.
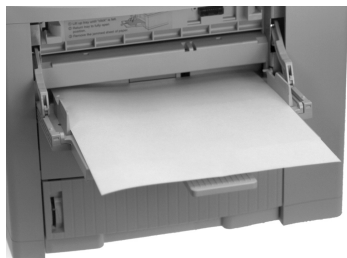
> **DRUM CLEANING**
> **MANUAL LETTER REQUEST**

or

> **DRUM CLEANING**
> **MANUAL A4 REQUEST**

displays.

3 Insert a clean sheet of letter or A4 paper in the Front Feeder.

4 Press FORM FEED.

The cleaning page prints.

5 Press ON LINE to return the printer to ready.

Printer Control

Control Panel

Select the Display Language

Printer messages can be displayed in the control panel window in a number of languages. English is the default language. To change the display language:

1 Press ON LINE to change the printer status to off-line.

2 Press MENU 1/Menu 2 and hold for 2 seconds. **PRINT MODE** displays.

3 Press MENU 1/Menu 2 until **LANGUAGE** displays.

4 Press ENTER/Power Save. **ENGLISH** *displays.*

5 Press ▶/Reset until the desired language displays.

6 Press ENTER/Power Save to select the new language as the default setting.

7 Press ON LINE to engage the change and place the printer back on-line.

Control Panel Lights

The lights indicate the printer status:
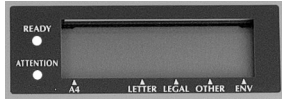
READY Light (Amber)

On: Printer is on-line, ready to receive data

Off: Printer is off-line, unable to receive data; initializing; warming up; error

Blinking: Printer is printing a menu, fonts, or demo page

ATTENTION Light (Red)

On: Warning—toner is low, change drum, near end of fuser life

Off: Normal state

Blinking: Operator assistance required—paper jam, paper out, paper request, service required

Paper Size Indicator
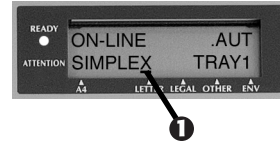
The flashing marker (1) in the printer display window indicates the paper size installed in the paper tray. This feature eliminates having to open the paper tray to see which paper size is loaded.

Control Panel Button Functions

To access printer functions from the control panel, place the printer off-line (press the ON LINE button: OFF-LINE appears on the display).

- To access the top function of each button, press the button briefly.
- To access the bottom function, press and hold the button for 2 to 3 seconds.

Button Function Summary

**Press:** Enters Level-1 menu. Once in the Level-1 menu, press this button to move to the next menu item, or press and hold to cycle backwards through all the Level-1 menu categories.

Press/hold: Enters Level-2 menu.

Press: In Menu Mode returns to previous item; press and hold to cycle backwards through all the items within a category. Also used with ▶/Reset to generate a drum cleaning page: see "Generating a Drum Cleaning Page" in the Maintenance chapter.

Press/hold: Clears error condition and returns printer on-line.
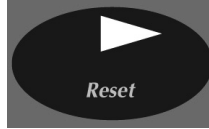
Press: In Menu Mode advances to the next item. Also used with ◀/Recover to generate a drum cleaning page: see "Generating a Drum Cleaning Page" in the Maintenance chapter.

Press/hold: Deletes data in buffer and executes internal reset.

Press: In Menu Mode: sets displayed Menu item as the user default.

Press/hold: Enters the Power Saving quick menu.

ON LINE

Press: Changes printer status from receive data mode (on-line) to local function mode (off-line).

PAPER SIZE
Print Menu

Press: Enters the Paper Size Quick Menu

Press/hold: Prints a listing of the current and default menu settings (HP PCL 6, IBM Proprinter III XL, or Epson FX).

TRAY TYPE
Print Fonts

Press: Enters the Tray Select Quick Menu.

Press/hold: Prints a sample of installed printer fonts (HP PCL 6, IBM Proprinter III XL, or Epson FX).

FORM FEED
Print Demo

Press: Ejects the current page. Any data held in the buffer is printed.

Press/hold: Prints a Demo Page (HP PCL 6, IBM Proprinter III XL, or Epson FX).

Printer Menus

Most printer features are selected directly from your software application. If you want to use the printer's Menu to select features, see Printer Menus below. *Remember, features selected in your software will override features selected in the printer's Menu.*

Selecting Printer Features Using Your Software

Most printer features like font, paper size, and page orientation can be set in your software program. This is the easiest way to control your printer. Check your software documentation for information.

Selecting Printer Features Using Your Printer Driver

Printer features can also be set using the Status Monitor software included with your printer. However, these settings will be overridden by any settings made within your software package.

Selecting Printer Features Using the Printer Main Menus

You can also select printer features in the printer main menus by using the control panel. However, features set in your software program will override the same features selected in the printer main menu.

! *Important: Use the printer main menu only when your software does not let you select features or when you are setting printer features that your software does not control.*

Printing the Main Menus

To print a list of the menu items and settings currently engaged:

1 Place the printer off-line (press ON LINE).

2 Press and hold PAPER SIZE/*Print Menu* until the display reads PRINT MENU.

3 To print the menu for the HP PCL6 emulation, press ENTER/*Power Save*. To print the menu for the IBM or Epson emulation, press ▶/*Reset* until the emulation you want appears on the second line of the display, then press ENTER/*Power Save*.

4 The menu prints.

The printout shows the factory default settings, the current user settings, and the amount of memory installed in your printer.

How to Use the Main Menus

Main menu features are:

- accessed using control panel buttons
- displayed in the control panel window
- organized by Categories → Items → Selections

There are two levels within the main printer menu: Level-1 and Level-2. To access the menus, place the printer off-line (press ON LINE), then

- to access the Level-1 menu, press MENU 1/*Menu 2* (the display will read **PERSONALITY**).
- to access the Level-2 menu, press and hold the MENU 1/ *Menu 2* button until the display reads **PRINT MODE**).

Quick Access Menus

The PAPER SIZE, TRAY TYPE, and POWER SAVING menu features can be accessed directly without having to step through the main menu.

To do this:

1 Place the printer off-line (press ON LINE).

2 Press and release PAPER SIZE, or

    Press and release TRAY TYPE, or

    Press POWER SAVE *for two full seconds.*

3 Press ▶ repeatedly until you see the selection you want.

4 Press ENTER/*Power Save* to set the selection as the default.

    An asterisk (*) appears to indicate the new default setting.

5 Press ON LINE to exit the menu and place the printer back on-line.

Using the Level-1 Menu

1 Press ON LINE to place the printer off-line.

2 Press MENU 1/*Menu 2* to enter the Level-1 menu.

3 Continue to press MENU 1/*Menu 2* repeatedly to advance through the Level-1 menu categories.

4 Press ENTER/*Power Save* to select a category.

The current default setting displays.

! *Some categories include more than one item. In such categories, after you press ENTER, press MENU 1/ Menu 2 to advance to the next item before proceeding to step 5.*

5 Press ▶/Reset repeatedly to display the selections. Stop when you see the selection you want.

6 Press ENTER/*Power Save* to set a selection as the default.
An asterisk (*) appears to indicate the new default setting.

7 Repeat steps 3 through 6 until you have made all the menu changes you wish to make, then press ON LINE to exit the Menu Mode and place the printer back on-line.

Notes:

! *If the MENU 1/**Menu 2** button is pressed and held while in Menu Mode, the printer cycles through the categories in reverse order.*

! *If you enter the Level-1 menu and make a selection while there is data present in the buffer, or while a DLL/ Macro is present, the RESET TO SAVE message appears on the display. When you press the ▶/**Reset** button, all data in the buffer and any temporary soft fonts or macros will be cleared.*

Example:

If you have one of the optional paper expansion trays installed, and you want to set the printer to automatically switch to another tray with the same size paper when the first tray runs out of paper:

1 Press ON LINE.

2 Press MENU 1/*Menu 2* to enter the Menu Mode.

3 Press MENU 1/*Menu 2* again to move to the TRAY SELECT category.

4 Press ENTER.

5 Press MENU 1/*Menu 2* twice to move to the AUTO TRAY SWITCH item.

6 Press ▶ once to get to the ON selection.

7 Press ENTER to engage the ON selection (an asterisk will appear next to ON).

8 Press ON LINE to exit the Menu Mode.

Level-1 Menu Settings

Summary of Level-1 Categories:

- PERSONALITY
- TRAY SELECT
- DUPLEX PRINTING
- EDIT SIZE
- PAPER SIZE
- MEDIA TYPE
- PAPER SIZE CHECK
- COPIES
- EURO SIGN
- FONTS & SYMBOLS
- PAGE LAYOUT1
- PAGE LAYOUT2
- HOST INTERFACE

Level-1 Menu Categories (e.g., PERSONALITY), Items (e.g., EMULATION) and Selections (e.g., HP LaserJet 5, IBM PPR II XL, Epson FX) are summarized below: default Selections are in italic (e.g., *AUTO Emulation*).

PERSONALITY

EMULATION

AUTO Emulation

HP® PCL6

IBM® PPR III XL

Epson® FX

Adobe® PostScript®

Notes: Auto Emulation automatically switches between HP PCL6 (LaserJet 5), IBM PPR III XL, Epson FX and Adobe PostScript emulations.

TRAY SELECT

MANUAL FEED

OFF

ON

Notes: Selects manual feed mode: paper is fed from the Manual Feeder regardless of the PAPER FEED setting. When the job is ready to print, MANUAL REQUEST appears on the display; be sure to place paper on Manual Feeder, then press FORM FEED button to start printing.

PAPER FEED

TRAY 1

TRAY 2*

TRAY 3*

FRONT TRAY (Manual Feeder)

MULTI FEEDER*

Notes: * Selection only appears if appropriate optional accessory is installed.
Select paper source.

AUTO TRAY SWITCH

OFF

ON

Notes: ON = When paper tray is empty, printer automatically switches to the optional paper expansion tray, if installed, then to the manual feeder, then to the optional multi-purpose feeder, if installed.

PRIORITY TRAY

    NONE

    FRONT

    Notes: FRONT = Front Tray is selected if it has paper.

DUPLEX PRINTING (appears in OKIPAGE 18 menu only if Duplex Feeder is installed.)

DUPLEX

    ON

    OFF

    Notes: Selects duplex printing (for OKIPAGE 18, optional duplex feeder must be installed).

BIND

    LONG EDGE

    SHORT EDGE

  Notes: Selects the orientation for duplex printing so that the printing on the front and back is properly aligned (Duplex Printing must be set to ON). Long Edge sets the orientation for portrait printing. Short Edge sets the orientation for landscape printing.

EDIT SIZE

  CASSETTE SIZE

  LETTER

  EXECUTIVE

  LEGAL14

  LEGAL13

  A4 SIZE

  A5 SIZE

  A6 SIZE

  B5 SIZE

  COM-9

  COM-10

  MONARCH

  DL ENVELOPE

  C5 ENVELOPE

  C4 ENVELOPE

Notes: *HP PCL6 mode:* Sets the paper size when the software does not. With the default Cassette Size selected, the paper size will be whatever is detected in tray 1, tray 2 or tray 3. If manual feed or front tray are being used, the paper size will be the one selected in the Level-1 menu (default is letter).

PostScript mode: Ignored.

PAPER SIZE
  FRONT/MANUAL
      LETTER
      EXECUTIVE
      LEGAL14
      LEGAL13
      A4 SIZE
      A5 SIZE
      A6 SIZE
      B5 SIZE
      COM-9
      COM-10
      MONARCH
      DL ENVELOPE

      C5 ENVELOPE
      C4 ENVELOPE
  Notes: Selects paper size installed in manual feeder. If paper size installed does not match setting, printer will display message requesting the size set in menu.

MULTI FEEDER (appears if option is installed)
      LETTER
      EXECUTIVE
      LEGAL14
      LEGAL13
      A4 SIZE
      A5 SIZE
      A6 SIZE
      B5 SIZE
      COM-9
      COM-10
      MONARCH
      DL ENVELOPE
      C5 ENVELOPE
  Notes: Appears only if the optional Multi-Purpose Feeder is installed.

MEDIA TYPE

TRAY 1

    LIGHT

    MEDIUM LIGHT

    MEDIUM

    MEDIUM HEAVY

    HEAVY

Notes: Improves print quality and toner fusing.
Light = 16 lb. (60 g/m^2)
Medium Light = 18 lb. (68 g/m^2)
Medium = 20 lb. (75 g/m^2)
Medium Heavy = 24 lb. (90 g/m^2)
Heavy = 28 lb. (105 g/m^2)

TRAY 2 (appears if option is installed))

    LIGHT

    MEDIUM LIGHT

    MEDIUM

    MEDIUM HEAVY

    HEAVY

Notes: Improves print quality and toner fusing. Only appears in the menu when the optional paper expansion tray is installed.
Light to Heavy weight values are same as specified for Tray 1.

TRAY 3 (appears if option is installed))

    LIGHT

    MEDIUM LIGHT

    MEDIUM

    MEDIUM HEAVY

    HEAVY

Notes: Improves print quality and toner fusing. Only appears in the menu when two optional paper expansion trays are installed.
Light to Heavy weight values are same as specified for Tray 1.

FRONT/MANUAL

    LIGHT

    MEDIUM LIGHT

    MEDIUM

    MEDIUM HEAVY

    HEAVY

    TRANSPARENCY

Notes: Specify print media weight/type to improve print quality and toner fusing.
Light to Heavy weight values are same as specified for Tray 1.
For overhead projector slides, set TRANSPARENCY.

MULTI FEEDER (appears if option is installed))

    LIGHT

    MEDIUM LIGHT

    MEDIUM

    MEDIUM HEAVY

    HEAVY

    TRANSPARENCY

Notes: Specify print media weight/type to improve print quality and toner fusing.
Light to Heavy weight values are same as specified for Tray 1.
For overhead projector slides, set TRANSPARENCY.

PAPER SIZE CHECK

PAPER SIZE CHECK

    ENABLE

    DISABLE

Notes: ENABLE = printer only accepts paper size selected in software which matches size of paper actually loaded in tray.
DISABLE = printer will accept any paper size selected in software.

COPIES

COPIES

> *1* to 999

> **Notes:** Selects number of copies to print for each document.

EURO SIGN

EURO SIGN

> *DISABLE*

> ENABLE

> **Notes:** Selects switch to Euro Currency (Euro dollar mark).

FONTS & SYMBOLS (HP emulation)

FONT SOURCE

> *RESIDENT*

> SIMM

> DOWNLOADED

> **Notes:** Select font source.
> SIMM appears only if optional Flash ROM SIMM is installed.
> DOWNLOADED appears if a soft font is loaded.

FONT No.

> *1000*

> C000

> S001

Notes: Prefix indicates font source:
I = internal (resident) - I000 = Courier;
C = Card Font (appears only if optional Flash ROM SIMM is installed)
S = downloaded soft font (appears only if soft font is loaded)

FONT PITCH

> 0.44 ~

> *10.00 ~*

> 99.99

> **Notes:** Displayed only when Font selected by Font No. is Fixed Spacing Scalable Font.

FONT HEIGHT

> *12.00 POINT*

> 4.00 to 999.75 points

> **Notes:** Displayed only when Font selected by Font No. is the proportional spacing scalable font.

SYMBOL SET

PC-8, ROMAN-8, ISO L1, PC-8 Dan/Nor, PC-850, Legal, ISO-2 IRV, ISO-4 UK, ISO-6 ASC, ISO-10 S/F, ISO-11 SWE, ISO-14, JASC, ISO-15 Ita, ISO-16 Por, ISO-17 Spa, ISO-21 Ger, ISO-25 Fre, ISO-57 Chi, ISO-60 Nor, ISO-61 Nor, ISP-69 Fre, ISO-84 Por, ISO-85 Spa, German, Spanish, ISO Dutch, Roman Ext, ISO Swedish1, ISO Swedish2, ISO Swedish3, IBM-437, IBM-850, IBM-860, IBM-863, IBM-865, PC Set1, PC Ext US, PC Ext D/N, PC Set2 US, PC Set2 D/N, UN Math, UN Int'l, UN US, PS Math, PS Text, Math-8, Pi Font, MS Publish, Win 3.0, DeskTop, Win 3.1 L1, MC Text, PC-852, Win 3.1 L5, Win 3.1 L2, CWI Hung, PC-857 TK, ISO L2, ISO L5, PC-8 TK, Kamenicky, Hebrew NC, Hebrew OC, Plska Mazvia, ISO L6, Win 3.1 Cyr, PC-866, Win 3.1 Grk, PC-869, PC-855, Greek-437, Greek-437 Cy, Greek-928, Win 3.1 Heb, Serbo Croat2, Ukrainian, Bulgarian PC-1004, WIN BALTIC, PC-775, Serbo Croat1, HP ZIP, USPSZIP, USPSFIM, USPSSTP, Wingdings, Symbol, OCR-A, OCR-B

FONTS & SYMBOLS (IBM and Epson emulations)

CHARACTER PITCH

10 CPI

12 CPI

17 CPI

20 CPI

PROPORTIONAL

Notes: Selects font and character pitch.

FONT CONDENSE (IBM emulation only)

12 CPI TO 20 CPI

12 CPI TO 12 CPI

Notes: Selects 12 CPI pitch when CONDENSE is specified.

CHARACTER SET

SET-2

SET-1

Notes: Selects the character set.

SYMBOL SET

IBM-437, IBM-850, ~

Notes: Selects code page.

LETTER O STYLE

DISABLE

ENABLE

Notes: Selects style.

ZERO CHARACTER

NORMAL

SLASHED

Notes: Selects style of 0 (zero). SLASHED = slash zero.

PAGE LAYOUT1 (HP emulation)

A4 PRINT WIDTH

78 COLUMN

80 COLUMN

Notes: HP only. When using A4 size paper, select 78 columns or condense to 80 columns so characters will fit on a line.

WHITE PAGE SKIP

OFF

ON

Notes: HP only. ON = printer will ignore FF code when buffer is empty. (Cancels printing a blank page at the end of a print job.)

CR FUNCTION

CR

CR + LF

Notes: HP Mode only. CR + LF = add LF command to each CR command.

LF FUNCTION

LF

LF + CR

Notes: HP Mode only. LF+CR= add CR command to each LF command.

PAGE LAYOUT1 (IBM and Epson emulations)

LINE PITCH

6 LPI

8 LPI

Notes: Sets the line pitch.

WHITE PAGE SKIP

OFF

ON

Notes: Sets whether a blank page is to be ejected or not (simplex printing only).

CR FUNCTION

CR

CR + LF

Notes: Sets the function when CR code is received.

LF FUNCTION (IBM emulation only)

LF

LF + CR

Notes: Sets the function when LF code is received.

LINE LENGTH

80 COLUMN

136 COLUMN

Notes: Selects the number of characters in one line.

FORM LENGTH

11 INCH (LETTER)

11.7 INCH (A4)

12 INCH

Notes: Selects paper length.

TOF POSITION

0.0 INCH

0.1 INCH

~

0.5 INCH

~

1.0 INCH

Notes: Selects initial printing position from top of paper (Top of Form).

LEFT MARGIN

0.0 INCH

0.1 INCH

~

1.0 INCH

Notes: Shifts horizontal print start position to the right.

FIT TO LETTER

DISABLE

ENABLE

Notes: Fits print data within 11 inches (66 lines) inside LETTER printable area.

PAGE LAYOUT2

ORIENTATION

PORTRAIT

LANDSCAPE

Notes: Sets printing oriented with the width of the page (Portrait) or with the length of the page (landscape).

LINES PER PAGE

60 LINES

5 TO 128 LINES

Notes: Selects lines per page in 1-line increments.

HOST INTERFACE

PARALLEL

ENABLE

DISABLE

Notes: Enables parallel interface.

RS232C

ENABLE

DISABLE

Notes: Enables serial interface.

OKI HSP

ENABLE

DISABLE

Notes: Enables network interface (only when OKI High Speed Port is installed).

Using the Level-2 Menu

The Level-2 menu includes selections that are rarely changed once they are set. To access the Level-2 menu:

1 Press ON LINE to place the printer off-line.

2 Press and hold MENU 1/Menu 2 until you see PRINT MODE on the display. Once you are in the menu, press MENU 1/Menu 2 repeatedly to advance through the Menu categories.

3 Press ENTER to select a category.

   The current default setting displays.

4 Press ▶/Reset repeatedly until you see the selection you want.

5 Press ENTER to set a selection as the default.
   An asterisk (*) will appear to indicate the new default setting.

! ● *Some categories include a number of items. In such categories, after you press ENTER in step 3, press MENU 1/Menu 2 to advance to the next selection before proceeding to step 4.*

Summary of Level-2 Categories:

- PRINT MODE
- AUTO OPERATION
- DARKNESS CONTROL
- POWER SAVING
- QUIET MODE
- LOW TONER
- TONER SAVING
- CLEARABLE WARNINGS
- ERROR REPORT
- PARALLEL I/F
- RS232C SERIAL
- OKI HSP
- LANGUAGE

Level-2 Menu Settings

Level-2 Menu Categories (e.g., PRINT MODE), Items (e.g., RESOLUTION) and Selections (e.g., 600x1200 DPI, 300 DPI) are summarized below: default selections are in italic (e.g., *600 DPI*).

PRINT MODE

RESOLUTION

600 DPI

600x1200 DPI

300 DPI

Notes: Selects print density in dots per inch. When a print job is sent at a resolution different from this menu setting, it is automatically converted and printed at the value selected in the print job.

AUTO OPERATION

AUTO CONTINUE

OFF

ON

Notes: *HP PCL 6 (LaserJet 5 compatible):* controls what happens when a memory overflow/print overrun situation occurs. OFF = printer will remain off-line until you press the ◀/Recover button. ON = printer will return to the on-line state automatically 15 seconds after it goes off-line.

PostScript mode: this setting is ignored. When a memory overflow/print overrun situation occurs, the ATTENTION light will come on until the print process is completed. It will then automatically go out and the printer will return to the on-line state.

WAIT TIMEOUT

OFF

90 SECONDS

Range 5 to 300 SEC

Notes: Sets the length of time the printer waits for additional data to be received.
HP PCL 6 (LaserJet 5 compatible): If the amount of time selected passes before the printer receives additional data, the printer will print any data it has in the buffer and reset.
PostScript mode: If the amount of time selected passes before the printer receives additional data, the printer will cancel the print job immediately and reset without any further printing.

MANUAL TIMEOUT

60 SECONDS

30 SECONDS

OFF

Notes: *PostScript mode only.* Sets the amount of time the printer will wait for paper to be loaded in the manual feeder before canceling the print job.

DARKNESS CONTROL

DARKNESS

0

+1

+2

-2

-1

Notes: Set print density (darkness). Negative values lighten print; positive values darken print.

POWER SAVING

0 SEC

1MIN

5MIN

10MIN

15MIN

30MIN

60MIN

120MIN

DISABLE

Notes: Selects time to shift to standby state.

QUIET MODE

QUIET MODE

ON

OFF

Notes: Selects whether to reduce fan rotations in Power Save mode, without turning off the heater. Reduces fan noise.

LOW TONER

LOW TONER

ON

OFF

Notes: ON = When low toner is detected, TONER LOW displays, indicating that toner cartridge should be replaced soon: at this point 100 more sheets will print before the TONER EMPTY message displays.
OFF = When low toner is detected, TONER EMPTY displays, indicating that the toner cartridge needs replacement. You must replace the toner cartridge immediately, or open and close the cover to remove the message, which will then reappear after every 20 pages are printed.

TONER SAVING

TONER SAVING

DISABLE

MEDIUM

LIGHT

Notes: Select medium or light to reduce the amount of toner used. This will result in lighter printing to conserve toner and is recommended only for proofs and draft print jobs.

CLEARABL WRNINGS

CLEARABL WRNINGS

ON

JOB

Notes: Sets the disposition of error messages that can be cleared by pressing the ▶/Reset button.
HP PCL 6 (LaserJet 5 compatible): ON = Message displays until you press ▶/Reset to clear the display. OFF = Message will automatically clear when next print job is received, whether or not you have pressed the ▶/Reset button.
PostScript mode: Invalid. Error message will automatically be cleared from display as soon as the print job ends.

ERROR REPORT

ERROR REPORT

OFF

ON

Notes: *HP PCL 6 (LaserJet 5 compatible):* Prints if there is a command error when a PCL XL command is sent.
PostScript mode: Change to ON if you wish to set the printer to print the error contents and the operand stack condition during a PostScript error.

PARALLEL I/F

PARALLEL SPEED

HIGH

MEDIUM

Notes: HIGH = Data transfer speed maximized.
MEDIUM = Select if data transmission problems occur,
or with earlier computers.

BI-DIRECTION

ENABLE

DISABLE

Notes: ENABLE = Select Bi-directional parallel
communication (Compatible, Nibble, ECP).
DISABLE = Bi-directional communications are NOT
supported.

I-PRIME

OFF

ON

Notes: *IBM and Epson modes only.* Sets whether or not
the I-Prime signal is ignored (OFF = ignored).

RS232C SERIAL

FLOW CONTROL

DTR HI POLARITY

DTR LO POLARITY

XON/XOFF

ROBUST XON

Note: Sets the type of serial communication protocol
used.

BAUD RATE

300 BAUD

600 BAUD

1200 BAUD

2400 BAUD

4800 BAUD

9600 BAUD

19200 BAUD

Note: Sets the communication speed in bits per second.

DATA BITS

   8 BITS

   7 BITS

   Note: Sets the number of data bits used in serial interface communication.

PARITY

   NONE

   EVEN

   ODD

   Note: Sets the serial interface parity.

MIN. BUSY

   200 mSECONDS

   1 SECOND

   Note: Sets the length of the busy signal.

OKI HSP

Note: The contents displayed conform to the OKI High Speed Port (HSP) card specifications (only when OKI HSP is installed).

LANGUAGE

   LANGUAGE

   ENGLISH

   DEUTSCH

   FRANCAIS

   ITALIANO

   CASTELLANO

   SVENSKA

   NORSK

   DANSK

   NEDERLANDS

   TÜRKÇE

   PORTUGUÊS

   POLSKI

   Note: Sets the display language

The User Maintenance Menu

The User Maintenance Menu includes printer maintenance and operating functions. Functions are described below.

To enter the Maintenance Menu:

1 Turn off the printer.

2 Press and hold MENU 1/Menu 2 while turning the printer on, until USER MNT displays.

3 Press MENU 1/Menu 2 repeatedly to advance to the category you want.

4 Press ENTER to engage a category function, or press ▶ to see other selections, then press ENTER to engage the selection you want.

5 Press ON LINE (except for HEX DUMP) to invoke the function.

Summary of Maintenance Menu Categories:

- MENU RESET
- HEX DUMP
- DRUM CNT RESET
- RSRC SAV
- REC BUF
- ECP
- OP MENU
- X ADJUST
- Y ADJUST
- DUP ADJUST
- 2ND TRAY
- 3RD TRAY
- FRONT
- PLACE PG
- SETTING
- CLN CYCL

Maintenance Menu Settings

MENU RESET

Note: Resets the Level-1 menu to factory defaults.

HEX DUMP

Notes: Prints a hex dump of received data for diagnostics. If less than a page of data is received, you must press the FORM FEED/Print Demo button to print the page. To exit hex dump mode, turn off the printer.

DRUM CNT RESET

Note: Use this to reset the drum counter after replacing, and only after replacing, the image drum cartridge.

RSRC SAV

AUTO

OFF

200KB

400KB

800KB

1.2MB

1.8MB

2.4MB

3.2MB

4MB

5MB

6MB

Note: Selects amount of memory for saving permanent DLLs and MACROs in PCL. This option can be set only if optional memory is added to the printer.

RECEIVE BUFFER

AUTO

8KB

20KB

50KB

100KB

1MB

Notes: Sets the size of the receive buffer. If you set a large value, the printing speed will be faster, but memory overflows will occur more frequently.
When this value is changed, all downloaded fonts, macros, and I/O data are lost.

ECP

ENABLE

DISABLE

Note: Enables or disables ECP mode in the parallel interface.

OP MENU

ENABLE

DISABLE

Notes: DISABLE = Disables all control panel buttons except ON LINE. Use this feature to prevent changing menu items you have personally selected.
ENABLE = All control panel buttons are active. See Recovery Procedure below.

Recovery Procedure: To enable the operator panel after it has been disabled:

1 Turn off the printer.

2 Follow instructions at beginning of this section to enter the User Maintenance Menu.

3 Under the OP MENU category, select ENABLE.

XADJUST

0mm (Range +2.00 to -2.00 mm, in 0.25 mm intervals)

Notes: Adjust horizontal print position in 0.25 mm increments. Plus (+) indicates right movement, minus (-) indicates left movement.

Y ADJUST

0mm (Range +2.00 to -2.00 mm, in 0.25 mm intervals)

Notes: Adjust vertical print position in 0.25 mm increments. Plus (+) indicates downward movement, minus (-) indicates upward movement.
In PostScript mode, any negative values selected will be ignored.

DUP ADJ

0mm (Range +2.00 to -2.00 mm, in 0.25 mm intervals)

Notes: For the OKIPAGE 18, this setting only applies when the optional duplex feeder is installed.
Adjust vertical print position in 0.25 mm increments. Plus (+) indicates downward movement, minus (-) indicates upward movement.

In PostScript mode, any negative values selected will be ignored.

2ND TRAY

5 (Range 1 to 16)

Notes: Applies only when the optional paper expansion tray is installed. Sets the priority of the optional tray in the HP PCL 5e (LaserJet 5 compatible) emulation.

3RD TRAY

9 (Range 1 to 16)

Notes: Applies only when two optional paper expansion trays are installed. Sets the priority of the second optional tray in the HP PCL 5e (LaserJet 5 compatible) emulation.

FRONT

4 (Range 1 to 16)

Notes: Sets the priority of the manual feeder in the in the HP PCL 5e (LaserJet 5 compatible) emulation.

PLACE PG

CENTER

LEFT

Notes: Sets placement of printed image on the page.

SETTING

0 (Range -2 to +2 in increments of 1)

Notes: Adjust to improve print quality:
-2=Rough/thick papers and/or low temperature/humidity
−1
0=Normal media/environmental conditions
+1
+2=Rough papers and/or high temperature/humidity

CLN CYCL

NORMAL

MIDDLE

HIGH

Notes: Sets the frequency of the page cleaning sequence:
NORMAL = every 24 pages (OKIPAGE 24DX) or every 20 pages (OKIPAGE 18)
MIDDLE = every 10 pages
HIGH = every 3 pages.

Changing Parallel Interface Menu Settings

If you need to change any of the menu settings:

1 Press **ON LINE**.
   The printer goes off line.

2 Press and hold **MENU 1/Menu 2** until you see PRINT MODE on the display.

3 Press **MENU 1/Menu 2** until PARALLEL I/F appears.

4 Press **ENTER**.

5 Press **MENU 1/Menu 2** until the item you wish to change appears (e.g., I-PRIME).

6 Press ▶/**RESET** until the setting you wish to engage appears (e.g., ON).

7 Press **ENTER**.
   An asterisk appears to indicate the new default setting (e.g., ON *).*

8 Press **ON LINE**.
   The printer saves the new setting and exits the menu.

Changing Serial Interface Menu Settings

If you need to change any of the serial interface settings:

1 Press **ON LINE**.
   The printer goes off line.

2 Press and hold **MENU 1/Menu 2** until you see PRINT MODE on the display.

3 Press **MENU 1/Menu 2** until RS232C SERIAL appears.

4 Press **ENTER**.

5 Press **MENU 1/Menu 2** until the item you wish to change appears (e.g., BAUD RATE).

6 Press ▶**/RESET** until the setting you wish to engage appears (e.g., 2400 BAUD).

7 Press **ENTER**.
   *An asterisk appears to indicate the new default setting (e.g., 2400 BAUD *).*

8 Press **ON LINE.**
   The printer saves the new setting and exits the menu.

Selecting an Emulation

Available Emulations

The printer has the following emulations:

- HP® LaserJet® 5 PCL5e®
- HP LaserJet 5 PCLXL
- Adobe® PostScript® Level 2
- IBM® Proprinter® III XL (9-pin)
- Epson® FX (9-pin)

Selecting a Specific Emulation

To turn Auto Emulation Switching off, you need to enter the menu and select a specific emulation:

1 Press **ON LINE**.
   The printer goes off line.

2 Press **MENU 1/Menu 2**.
   The printer enters the menu mode; PERSONALITY *appears on the display.*

3 Press **ENTER/Power Save**.
   EMULATION appears on the display.

4 Press ▶**/Reset** until the emulation you wish to select appears on the display (e.g., HP LaserJet 5).

5 Press **ENTER/Power Save**.
  An asterisk appears next to the setting (e.g., HP LaserJet
  5 *).*

6 Press **ON LINE**.
  The printer saves the new setting and exits the menu.

Adjusting the Warm-up Cycle

The printer's warm-up cycle, which affects the time before the first page is printed, can be adjusted by changing the Power Saving and Quiet Mode menu settings.

Power Saving	Quiet Mode	Warm-up Cycle
Menu setting = Disable	Quiet Mode = OFF	7 seconds
Menu setting = Disable or printer has not yet entered Power Saving mode	Quiet Mode = ON	15 to 24 seconds
Printer has entered Power Saving mode	Power Saving mode overrides Quiet Mode	60 seconds

Changing the ECP Setting

The parallel port on the OKIPAGE 24DX and 24DXn supports IEEE 1284 bi-directional mode and ECP mode. If your computer's parallel port is not compatible with one of these modes, the printer may not print at all or it may print corrupted data.

To correct for this, enter the printer's Maintenance menu and change the ECP setting to Disable.

To disable ECP:

1 Turn off the printer.

2 Press and hold MENU 1/*Menu 2* while turning the printer on, until **USER MNT** displays.

3 Press MENU 1/*Menu 2* repeatedly until **ECP** appears.

4 Press ▶/*Reset* to change the setting to **DISABLE**.

5 Press ENTER to engage the new selection.
An asterisk appears next to **DISABLE**.

6 Press ON LINE to save the setting and exit the menu mode.

Changing the Media Type for Tray 1

The printer is optimized for printing on 20-lb. (75 g/m^2) paper in Tray 1. If you consistently use another type of media, you can change the setting to match what you are using.

To change the Media Type for Tray 1:

1 Press ON LINE.

2 Press MENU 1/*Menu 2* repeatedly until **MEDIA TYPE** appears on the display.

3 Press ENTER/*Power Save* until **TRAY 1** displays.

4 Press ▶/*Reset* repeatedly until the setting you want appears on the display.

5 Press ENTER/*Power Save*.
An asterisk appears to indicate the new default setting.

6 Press ON LINE to save the setting and exit the menu mode.

Changing the Paper Size and/or Media Type for the Front Feeder

The printer is optimized for printing on 20-lb. (75 g/m^2), letter-size paper. If you consistently use another size paper or a different type of media in the front feeder, you can change the settings to match what you are using.

To change the Paper Size and/or Media Type for the Front Feeder:

1 Press ON LINE.

! *If you are not changing the Paper Size, skip to step 6.*

2 Press MENU 1/*Menu 2* repeatedly until PAPER SIZE appears on the display.

3 Press ENTER/*Power Save* until FRONT / MANUAL appears on the display.

4 Press ▶/*Reset* repeatedly until the setting you want appears on the display.

5 Press ENTER/*Power Save*.
   An asterisk appears to indicate the new default setting.

! *If you are not changing the Media Type, skip to step 11.*

6 Press MENU 1/*Menu 2* until MEDIA TYPE appears on the display.

7 Press ENTER/*Power Save*.

8 Press MENU 1/*Menu 2* until FRONT / MANUAL appears on the display.

9 Press ▶/*Reset* repeatedly until the setting you want appears on the display.

10 Press ENTER/*Power Save*.
   An asterisk appears to indicate the new default setting.

11 Press ON LINE to save the setting and exit the menu mode.

Test Pages

Printing the Menu Settings

1 Turn the printer ON.

INITIALIZING displays briefly in the control panel window, then ON LINE displays.

2 Press ON LINE to place the printer off-line.

3 Press PAPER SIZE/Print Menu for 2 seconds.

PRINT MENU displays.

4 Select emulation by ◀ or ▶ and press ENTER/Power Save.

The menu settings listing prints.

Printing the Font Sample

1 Turn the printer ON.

INITIALIZING displays briefly in the control panel window, then ON LINE displays.

2 Press ON LINE to place the printer off-line.

3 Press TRAY TYPE/Print Fonts for over 2 seconds.

PRINT FONTS and emulation are displayed.

4 Select emulation by ◀ or ▶ and press ENTER/Power Save.

The font sample listing prints.

Printing the Demo Page

1 Turn the printer ON.

INITIALIZING displays briefly in the control panel window, then ON LINE displays.

2 Press ON LINE to place the printer off-line.

3 Press FORM FEED/Print Demo for 2 seconds (until the display reads PRINT DEMO PAGE).

4 To print the Demo Page for the HP emulation, press ENTER/Power Save. To print the Demo Page for the IBM or Epson emulation, press ▶/Reset until the emulation you want appears on the second line of the display, then press ENTER/Power Save.

The demo page prints.

▎Specifications

General

Print Method: LED array

Print Speed:
18 pages per minute (OKIPAGE 18), one-sided printing (SIMPLEX mode, standard)

24 pages per minute (OKIPAGE 24DX), one-sided printing (SIMPLEX mode, standard)

10 pages per minute, two-sided printing (DUPLEX mode; optional on OKIPAGE 18, standard on OKIPAGE 24DX)

Resolution:
300 x 300 dpi, 600 x 600 dpi, 600 x 1200 dpi

RAM:
16 MB standard, expandable to 80 MB (optional SIMMs installed)

ROM:
10 MB standard

Interface:
Parallel: IEEE 1284 compliant, bi-directional port
Serial: RS232C

Emulations:
HP PCL6 (LaserJet 5 compatible)
IBM Proprinter
Epson FX
Adobe PostScript level 2
Auto Emulation Switching

Typefaces – HP Mode

Bitmap:
Line Printer, OCR-A, OCR-B

Scalable:
Fixed: Courier, Letter Gothic

Proportional: Albertus, Antique Olive, Arial, CG Times, CG Omega, Clarendon, Coronet, Garamond, Marigold, Symbol, Times New, Univers, Univers Condensed, Wingdings

Bar Code:
USPS PostNet

Typefaces – Epson, IBM Modes

Courier, Line Printer

Typefaces – PostScript Mode

Type-1 Font

Multiple Master Fonts

True Type Support

Fixed: Courier

Proportional: Times, Helvetica, ITC Bookman, ITC Avant Garde, New Century Schoolbook, Palatino, ITC Zapf Chancery, ITC Zapf Dingbats, Symbol, Adobe SansMM, Adobe SerifMM

Paper Handling Specifications

Paper Tray:
530 sheets, 16-28 lb. paper

Paper Feed (2nd/3rd trays):
530 sheets, 16-28 lb. paper

Paper Feed (multi-purpose feeder):
100 sheets, 16-24 lb. paper
10 envelopes, 16-24 lb.

Manual Feeder:
100 sheets, 16-36 lb. paper
10 Envelopes, 16-28 lb.

Duplex Feeder (optional on OKIPAGE 18; standard on OKIPAGE 24DX):
16-28 lb. paper

Physical

Width:
14.4 inches (366 mm)

Depth:
18.2 inches (462 mm)

Height:
13 inches (331 mm)

Weight:
OKIPAGE 18 = 42 lbs. (19 kg)
OKIPAGE 24DX = 47 lbs. (21.3 kg)

Environmental

Temperature
Operating: 50 to 90°F (10 to 32°C)
Storage: 14 to 110°F (-10 to +43°C)

Humidity
Operating: 20 to 80% RH
Storage: 10 to 90% RH

Electrical

Voltage:
120V AC, +10%, -14%

230V AC ±10%

Frequency:
50/60 Hz ±2%

Power
Idle: 95 watts
Operating: 350 watts
Peak: 820 watts
Power Saving Mode: 25 watts

Interface

IEEE 1284 Parallel Interface

Parallel cable requirements:
* Cable must be shielded with twisted pair conductors, and must be UL and CSA approved
* Maximum length for bi-directional cable is 6 feet (1.8 meters). For lengths greater than 6 feet, use a cable marked IEEE 1284-compliant.
* Printer connector is an IEEE 1284-B receptacle (36 pins, 0.085" center line)
* Port supports bi-directional IEEE 1284 communications (compatibility, nibble, and ECP modes)

Bi-Directional Parallel Mode
If you are using the Status Monitor software, which provides on-line feedback of the printer status, BI-DIRECTION must be set to ENABLE (default) in the Level-2 printer main menu (see the Printer Control chapter).

The recommended cable length for bi-directional communications is 6 ft. (1.8 meters). The standard parallel cables available at computer stores should work fine. For extended distances, higher quality IEEE 1284-compliant cables are available.

Parallel Interface Pin Assignments

Pin	Signal	Logic	Direction, printer	Compatible	Nibble	ECP	Function
1	Data Strobe	neg.	to	nStrobe	Host Clk	HostClk	Data Strobe
2-9	Data Bit n	pos.	to	Data 1 (LSB) to 8 (MSB)			Data Line from Computer
10	Acknowledge	neg.	from	nAck	Ptrclk	PeriphClk	Receive/function complete
11	Busy	pos.	from	Busy	PtrBusy	PeriphAck	Data unattainable
12	Paper End	pos.	from	Perror	AckDataReq	nAckReverse	No paper
13	Select	pos.	from	Select	Xflag	Xflag	ON-line
14	Auto Feed	neg.	to	nAutoFb	HostBusy	HostAck	Mode Switch Request
15	-	-	-	-	-	-	Not used
16	0V	-	-	Signal Ground			Signal Grounded
17	Chassis Ground	-	-	Chassis Ground			Frame Grounded
18	+5V	pos.	from	+5 V supply (50mA max)			Supply Voltage
19	0V	-	-	Signal Ground			Signal Grounded
20-27	0V	-	-	Signal Ground			Signal Grounded
28	0V	-	-	Signal Ground			Signal Grounded
29	0V	-	-	Signal Ground			Signal Grounded
30	0V	-	-	Signal Ground			Signal Grounded
31	Input Prime	neg.	to	nInit	nInit	nReverseRequest	Initialize
32	Fault	neg.	from	nFault	nDataAvail	nPeriphRequest	Error detected Off-line
33	0V	-	-	-	-	-	Signal Grounded
34	-	-	-	-	-	-	Not used
35	Hilevel	pos.	from	High Level			Fix at Logic "1"
36	Sel In	neg.	to	nSelectIn	1284 Active	1284 Active	Mode Switch

RS232-C Serial Interface

Serial cable requirements:

- Cable must be shielded with twisted pair conductors, and must be UL and CSA approved
- Maximum length for serial cable is 6 feet (1.8 meters).
- Printer connector is Type 17LE-13250-27 (D4CC) receptacle (25 pins)

Serial Mode

The serial interface settings on your printer and computer must match. To change printer settings, enter the Level 2 menu (press ON LINE to place the printer off-line, then press MENU 1/*Menu 2* for 2 seconds, until PRINT MODE appears) and select the RS232C SERIAL category. Set FLOW CONTROL, BAUD RATE, DATA BITS, PARITY, and MIN. BUSY to match the settings on your computer. Following are the printer default settings for these parameters:

FLOW CONTROL	DTR HI POLARITY
BAUD RATE	9600 BAUD
DATA BITS	8 BITS
PARITY	NONE
MIN. BUSY	200 mSECONDS

Serial Interface Pin Assignments

Pin	Signal	Abbreviation	Direction, printer	Function
1	Frame Ground	FG	-	Frame ground
2	Transmitted Data	TD	from	Transmitted data
3	Received Data	RD	to	Received data
4	Request to Send	RTS	from	Stay space level
5	-	-	-	Not connected
6	-	-	-	Not connected
7	Signal Ground	SG	-	Signal ground
8-17	-	-	-	Not connected
18	+5V	-	from	+5V (50mA max.)
19	-	-	-	Not connected
20	Data Terminal Ready	DTR	from	Data terminal ready
21-25	-	-	-	Not connected

Network Print Server

A 10/100 Base-T network print server is included as standard equipment on the OKIPAGE 18n and OKIPAGE 24DXn printers. For the OKIPAGE 18 and OKIPAGE 24DX models, the network print server is an option that can be added at a later date.

For details on supported operating systems, network protocols, and other print server information, please refer to the print server's User's Guide.

Print Media

When you buy paper, keep in mind that page printers require a smooth finish paper. For most everyday applications, paper rated for copiers and laser printers should work well with your printer. Before buying any large quantity of a particular paper, always test a sample first.

! *Print media (including ink on preprinted forms) must be able to withstand 392° F (200° C) for 0.1 second.*

Path	Media: Qty	Weight	Sizes	Exit Path
Paper Tray	Paper: 530 sheets 20-lb.	16-28 lb.	Width: 5.8 to 8.5 inches Length: 8.3 to 14 inches	Top or Rear
Front Feeder	Paper: 100 sheets 20-lb.	16-28 lb.	Letter, 13 or 14 inch Legal, Executive, A4, A5, B5, C5 3.4 x 5.5 inches	Top or Rear
	Envelopes: 10	16-28 lb.	Com 10, Com 9, Monarch, DL, C4, C5	Rear Only
	Transparencies: ***Transparencies must withstand 392°F (200°C) for 0.1 second***	N.A.	Letter or A4	Rear Only
	Labels: ***Labels must withstand 392°F (200°C) for 0.1 second***	N.A.	Letter or A4	Rear Only
	Card Stock	Up to 36 lb.	Letter, 13 or 14 inch Legal, Executive, A4, A5, B5, C5	Rear Only
Paper Expansion Tray	Paper: 530 sheets 20 lb.	16-28 lb.	Width: 5.8 to 8.5 inches Length: 8.3 to 14 inches	Top or Rear
Multi-Purpose Feeder	Paper: 100 sheets 20 lb.	16-28 lb.	Width: 3.4 to 8.5 inches Length: 5.5 to 14 inches	Top or Rear
	Envelopes: 50	16-28 lb.	Com 10, Com 9, Monarch, DL, C4, C5	Rear Only
Duplex		16-24 lb.	Legal, letter, A4 Executive (7.25 x 10.5 inches)	Top or Rear

Fonts

Printing a Sample of Resident Fonts

1 Place the printer off-line (press ON LINE).
2 Press TRAY TYPE/*Print Fonts* for 2 seconds (until the display reads PRINT FONTS).
3 To print the typeface list for the HP emulation, press ENTER/*Power Save*. To print the typeface list for the IBM or Epson emulation, press ▶/Reset until the emulation you want appears on the second line of the display, then press ENTER/*Power Save*.

The typeface list prints.

Selecting Fonts

The printer's default font is 10 cpi Courier.

The easiest way to select fonts is through your software program. Refer to your software documentation for information on selecting fonts.

Fonts can also be selected using the printer's control panel and main menu, however, if a different font is selected in your software, it will override the font selected in the printer menu: see the Printer Control chapter for menu information.

Using Bar Code Fonts

The OKIPAGE 18/24DX printer drivers support USPS PostNet bar code fonts resident on your printer. Bar Code fonts can be printed easily from WORD for Windows and other Windows applications.

Symbol Sets

Your printer provides 90 special sets of characters for technical, legal and foreign language uses, as well as sets of drawing characters and standard alphanumeric characters. Each PCL font uses symbols from one or more of these sets.

PC-8 is the printer's default symbol set. Check your software documentation for information on how to select a symbol set and how to insert a symbol or special character into your document. Symbol sets can also be selected under the FONTS & SYMBOLS category in the printer Level-1 menu.

Toner

Toner cartridge: 6,000 sheets average with 5% black density (for simplex printing of A4 paper without Power Saving).

Replacement Period: Indicated by the "TONER LOW" display on the operator panel.

Image Drum

Image Drum Cartridge: Up to 30,000 sheets with 5% black density (for continuous simplex printing of A4 paper without Power Saving)

(Up to 19,000 sheets for 3 pages per job on simplex printing without Power Saving)

Replacement Period: Indicated by the "CHANGE DRUM" display on the operator panel.

Options

Installing SIMMs

SIMM Configurations

The OKIPAGE 18/24DX has three slots (1) for installation of optional SIMMs:

You can use these slots to add up to 64 MB of memory (two 32 MB SIMMs) to the standard 16 MB OKIPAGE 18/24DX printer memory, and/or to install either the Adobe PostScript SIMM Kit or the Flash ROM SIMM. See the Service & Support chapter for ordering information on these accessories.

Installing SIMMs

To install SIMMs in the printer:

1 Turn the printer off.
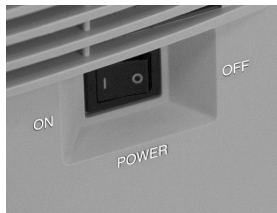
2 Unplug the power cord.
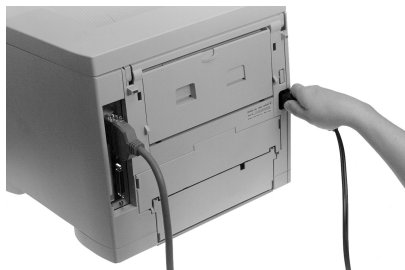
3 Detach the interface cable from the back of the printer.

4 Push the OPEN button, then open the top cover.

5 Remove and save the two large screws on the right side, which hold the side panel in place.

6 Pull the side panel out and remove it from the printer.
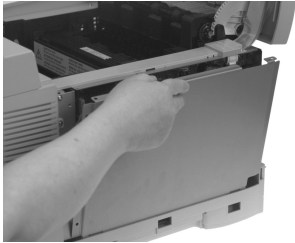
7 Remove and save the 4 screws on the left of the metal plate covering the internal board, then pull the plate out about an inch and lift it out.

8 Install the SIMMs:

    a.   Locate the three SIMM sockets on the board. Always install SIMMs in the sockets from left to right.

b. Insert the gold metallic contact edge of the SIMM into the socket at about a 45° angle, with the notched corner of the SIMM at the bottom. Push in until the gold contacts are fully inserted into the socket.
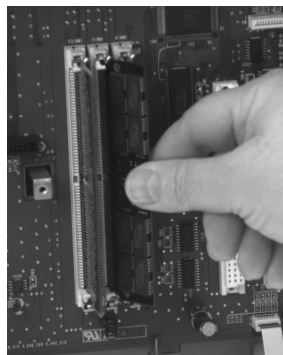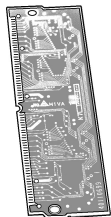
c. Pivot the SIMM to the left until it snaps into place.
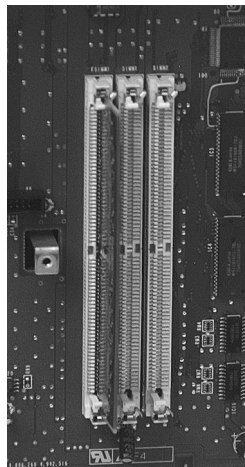
! • *Repeat steps a through c if you are installing additional SIMMs, working from left to right.*

9 Insert the tabs on the metal plate into the slots on the printer housing, then swing it up into place and replace the mounting screws.
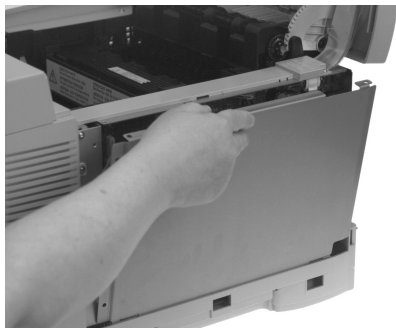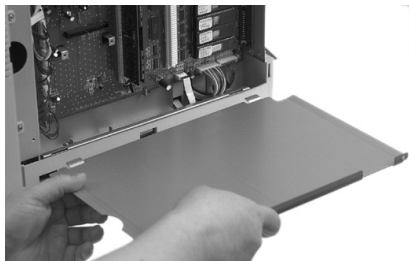
10 Replace the side panel (tabs go in slots): you'll need to move the cover hinge out of the way before you put the side panel back in place.
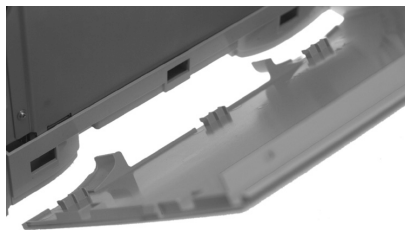
11 Secure the panel in place with the two screws.

12 Close the printer cover.

13 Reattach the PC interface cable.

14 Plug the power cord into the power outlet.
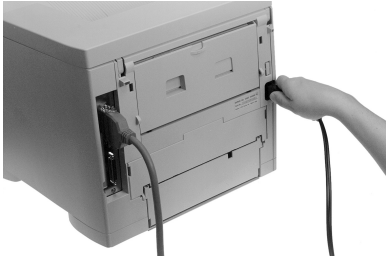
15 Turn the printer on.
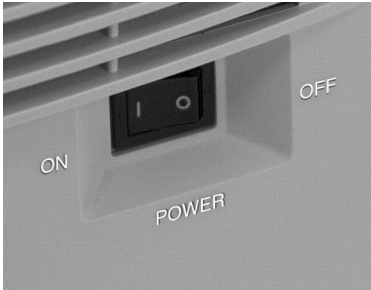
16 Check the menu printout to be sure that the SIMMs are properly installed:

a.   Press ON LINE to place printer off-line.

b.   Press the PAPER SIZE/Print Menu button for 2 seconds.
PRINT MENU *displays then the menu prints.*

c.   Check the top of the menu printout to verify that the SIMMs you installed appear ("Page Memory Installed" will appear if you installed memory expansion SIMMs).

! *If no verification appears at the top of the menu printout, open the printer back up and make sure that the SIMMs are firmly in place, then print the menu out again.*

Installing the Second/Third Paper Feeder

! *CAUTION: To avoid injury to fingers, two people should perform the installation.*

1 Prepare the printer:
   a.   Turn the printer off and unplug the power cord.
   b.   Detach the interface cable from back.
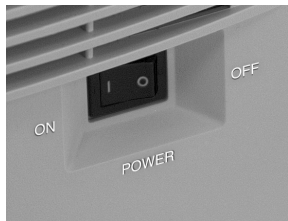
2 Prepare the tray:
Unpack the tray and place it on a firm surface next to the printer.
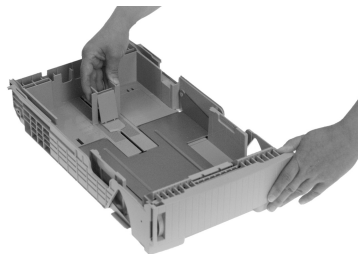
3 Assemble:

Lift the printer and place it on the second paper tray, aligning rear corners, and lowering the printer so that the posts in the tray go into the slots in bottom of the printer.
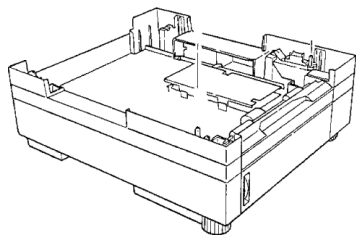
4 Check alignment:

Make sure the printer is seated exactly on the second mechanism so the connectors lock.

5 Load paper:
Pull out the second paper tray and load paper (up to 530 sheets 20-lb paper). Slide the tray back in.
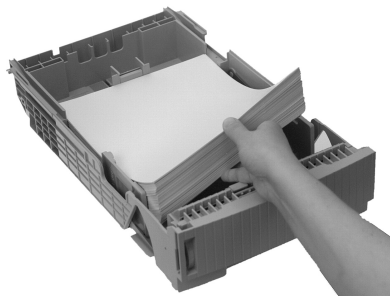
6 Reactivate the printer:
Re-attach interface cable on back, then plug in power cord and turn the printer on.
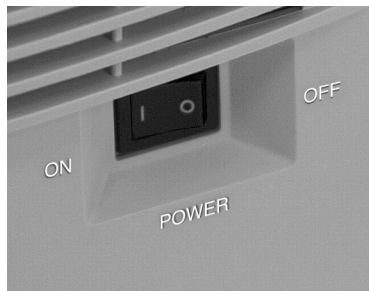
7 If desired, a second paper expansion tray can be added to triple the paper capacity to 1,590 sheets.

Installing the Multi-Purpose Feeder

1 Prepare the printer:
   a.   Turn the power OFF.
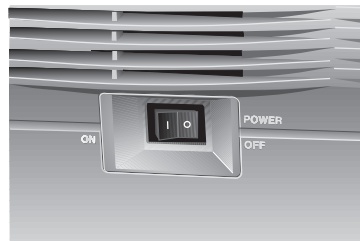
b.   Swing the manual feed tray down.

2 Install the feeder:
Insert the hooks on the multi-purpose feeder completely
into rectangular slots on the printer.
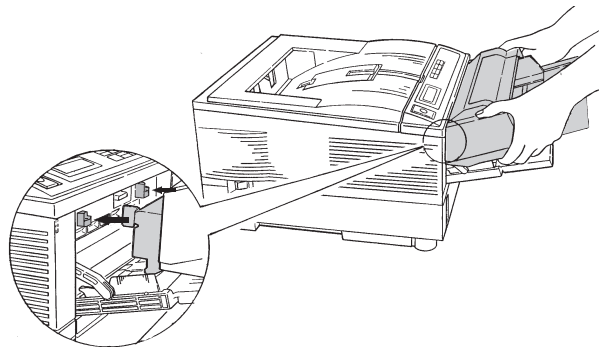
3 Load paper:

a.   Adjust the paper guides for your document.

b.   Swing up the paper feed cover and place the paper (up to 100 sheets) or envelopes (up to 50) on the tray. Pull out the support. Lower the paper feed cover slowly and turn the printer back on.
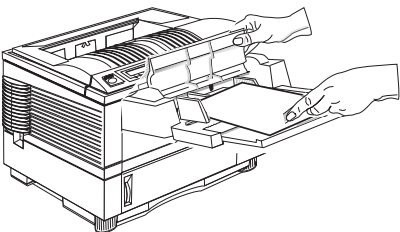
4 Print:

To print from the feeder, enter your software program and select the multi-purpose feeder (or envelope) as the paper source. Print your document.
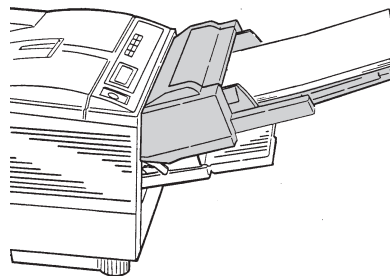
Uninstalling the Printer Software

Windows 95, 98 and NT 4.0

To remove the printer driver:
1 Click **Start → Settings → Printers**.
2 Highlight the **OKIPAGE 18 Printer** or **OKIPAGE 24DX Printer** icon.
3 Click **File** from the Menu bar.
4 Click **Delete**.

To remove the OKIPAGE 18/24DX software:
1 Click **Start → Settings → Control Panel**.
2 Double-click **Add/Remove Program**.
3 On the **Install/Uninstall** tab, select the **OKIPAGE 18 Software** or **OKIPAGE 24DX Software**.
4 Click the **Add/Remove** button.

Windows 3.1x

To remove the standard printer driver and the OKIPAGE 18/24DX software:

1 From the **Program Manager**, double-click the **OKIPAGE 18** or **OKIPAGE 24DX** icon (or the group where your printer is installed).

2 Double click **Uninstall**.

3 Restart your computer.

To remove the advanced printer driver:

1 From the **Program Manager**, double-click the **Main** program item.

2 When the **Main** dialog box appears, double-click **Control Panel**.

3 Click **Printers**.

4 Select **OKIPAGE 18** or **OKIPAGE 24DX**, then click **Remove**.

5 Click **OK**.

Macintosh

No uninstall is currently available.

Re-packing the Printer

If you need to ship your printer to a service center, repack it in the original packing materials. If the original packaging is not available, contact your dealer or 1-800-OKIDATA for shipping instructions.

When shipping to an Okidata Service Depot, call first for a return authorization number.

Repack the printer using the following procedure:

1 Turn the printer off.
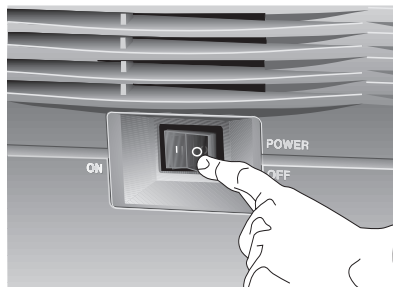
2 Raise the cover.
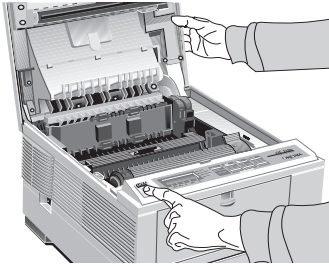
3 Lift the image drum cartridge, including the toner cartridge.
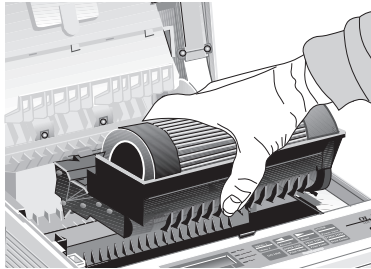
4 Place the image drum cartridge into the black light-shield bag so it is not exposed to light, and store it in a cool, dry place until your printer is returned.
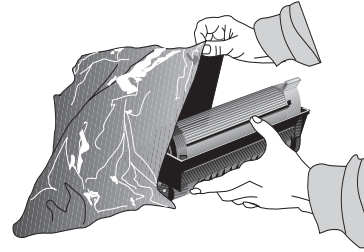
5 Close the cover. Tape the paper catcher and the front feeder tray to prevent opening during shipment. Remove and store the power cord and cables.

6 Wrap the printer in the plastic bag provided.

7 Place two foam end-caps in the bottom of the box, then carefully lower the printer into the box.
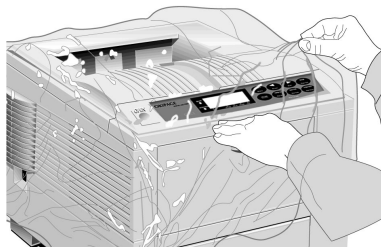
8 Place the two remaining foam end-caps over the printer.
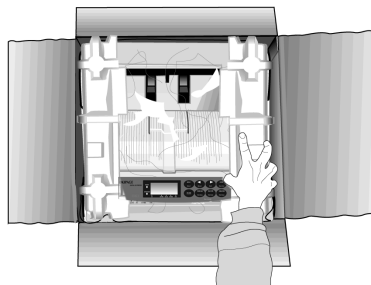
9 Place the cardboard tray on top.
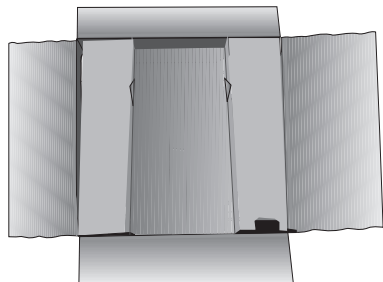
10 Close the box and tape it securely.
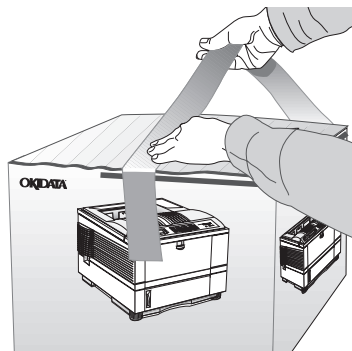
Any accessories, such as font cards and second paper trays should be sent separately in their own packing materials.

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