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# **PagePro™ 1350EN**

## **User's Guide**

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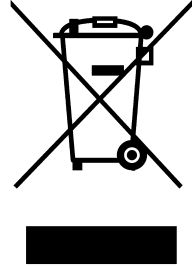
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*Introduction*

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**1**

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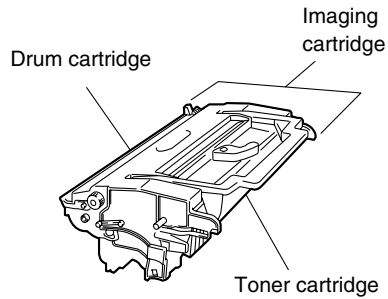
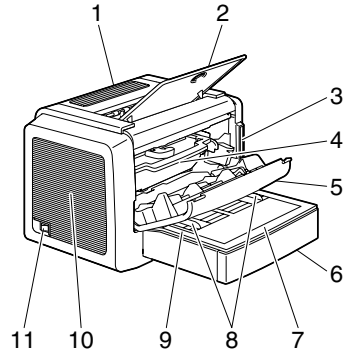
# Getting Acquainted with Your Printer

## Printer Parts

The following drawings illustrate the parts of your printer referred to throughout this guide, so please take some time to become familiar with them.

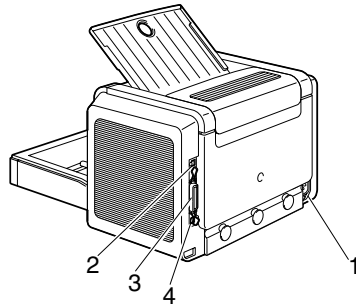
### Front View

- 1—Top cover
- 2—Output tray
- 3—Control panel
- 4—Imaging cartridge (Toner cartridge plus Drum cartridge)
- 5—Front cover
- 6—Tray 1
- 7—Tray cover
- 8—Paper guides for manual feed tray
- 9—Manual feed tray
- 10—Ventilation grilles
- 11—Power switch



### Rear View

- 1—AC power connection
- 2—USB port
- 3—Parallel port
- 4—10Base-T/100Base-TX Ethernet Interface port



# About the Indicator Functions

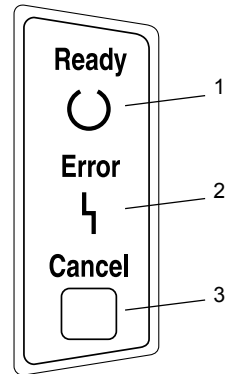
## Indicator Functions

The control panel has two indicators and one button. The control panel indicators provide information on the status of the printer.

- 1—Ready indicator
- 2—Error indicator
- 3—Cancel button

The Cancel button allows you to:

- Continue a print job after an error message
- Print a test page
- Cancel a print job



## Continuing a Print Job after an Error Message

You can continue the print job after correcting the following types of errors:

- When there is no more paper in the tray
- When paper of a different format than that set in the printer driver was fed into the printer

- 1 Check that one of the above errors has occurred.
- 2 Perform the remedial action according to the error.
- 3 Press the Cancel button to operate the media feed.  
The print job continues.

For details on the error messages, refer to Chapter 8, "Troubleshooting" on page 59.

## Printing a Test Page

You can print the following four kinds of test pages by pressing the Cancel button with the printer in idle mode:

- Operator Panel Status Sheet: Hold the Cancel button down for a second and then press the Cancel key once.



*We advise you to print this sheet and keep it close to your printer for reference.*

- Configuration Page: Hold the Cancel button down for a second and then press press the Cancel key twice.
- PCL Font List: Hold the Cancel button down for a second and then press press the Cancel key three times.



See also *“Printing Special Pages”* on page 24.

## **Cancelling a Print Job**

You can cancel a print job that is currently being processed.

- 1** While data is being processed or printed (the green “Ready” indicator is blinking), hold down the Cancel button for more than 5 seconds.
- 2** Release the Cancel button after both indicators light up.  
The current print job has now been cancelled.

# About the Software Utilities CD-ROM

## PCL Drivers.

Operating System	Use/Benefit
Windows XP/Server 2003/2000	These drivers give you access to all of the printer features, including finishing and advanced layout.
Windows Me/98SE	
Windows NT 4.0	

## Utilities

Utility	Use/Benefit
Crown Print Monitor for Windows	Using the TCP/IP protocol, print jobs can be sent directly to the printer. For details, refer to the PagePro 1350EN Reference Guide on the Utilities & Documentation CD-ROM.
PageScope Net Care	Printer management functions such as status monitoring and network settings can be accessed. For details, refer to the PageScope Net Care Quick Guide on the Utilities & Documentation CD-ROM.
PageScope Web Connection	With a Web browser, the status of printers can be checked, and the various settings can be changed. For details, refer to the PagePro 1350EN Reference Guide on the Utilities & Documentation CD-ROM.
PageScope Network Setup	Using the TCP/IP and IPX protocols, basic network printer settings can be specified. For details, refer to the PageScope Network Setup User Manual on the Utilities & Documentation CD-ROM.
PageScope NDPS Gateway	This network utility enables printers and KONICA MINOLTA multifunctional products to be used in an NDPS environment. For details, refer to the PageScope NDPS Gateway User Manual on the Utilities & Documentation CD-ROM.

<b>Utility</b>	<b>Use/Benefit</b>
Peer-to-Peer Printing tool	<p>Setups for peer-to-peer printing in Windows 98, Windows 98SE and Windows Me.</p> <p>Peer-to-peer printing refers to printing directly to a device on the network instead of through the Server.</p> <p>For details, refer to the Peer-to-peer Printing Tool User's Guide on the Utilities &amp; Documentatioin CD-ROM.</p>
Font Manager	<p>The font Manager helps you to manage your printer fonts. For more information, see the Font Manager online help.</p>

# System Requirements

- Personal computer
  - Pentium 2: 400 MHz (Pentium 3: 500 MHz or higher is recommended)
- Operating System
  - Microsoft Windows XP Home Edition/Professional (Service Pack 1 or later; Service Pack 2 or later is recommended), Windows Server 2003, Windows 2000 (Service Pack 4 or later), Windows Me, Windows 98SE, Windows NT 4.0 (Service Pack 6)
- Free hard disk space
  - Approximately 20 MB of free hard disk space for printer driver and Status Monitor
  - Approximately 128 MB of free hard disk space for image processing
- RAM
  - 128 MB or more
- CD-ROM/DVD drive
- I/O interface
  - 10Base-T/100Base-TX Ethernet interface port
  - USB Revision 2.0 compliant port
  - Parallel (IEEE 1284) port

# Selecting Driver Defaults

Before you start working with your printer, you are advised to verify/change the default driver settings.

## Windows XP/Server 2003/2000/NT 4.0

- 1 Choose the driver's properties as follows:
  - (Windows XP/Server 2003)  
From the **Start** menu, choose **Printers and Faxes** to display the **Printers and Faxes** directory. Right-click the KONICA MINOLTA PagePro 1350EN or KONICA MINOLTA PagePro 1350EN 5e printer icon and choose **Printing Preferences**.
  - (Windows 2000/NT 4.0)  
From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA PagePro 1350EN or KONICA MINOLTA PagePro 1350EN 5e printer icon and choose **Printing Preferences**.
- 2 Select the default settings for your printer, such as the default media format you use, on the appropriate tabs.
- 3 Click **Apply**.
- 4 Click **OK** to exit from the Print preference dialog box.

## Windows Me/98SE

- 1 Choose the driver's properties as follows:
  - From the **Start** menu, choose **Settings** and then **Printers** to display the **Printers** directory. Right-click the KONICA MINOLTA PagePro 1350EN or KONICA MINOLTA PagePro 1350EN 5e printer icon and choose **Properties**.
- 2 Select the **Configure** tab.
- 3 Select the default settings for your printer, such as the default media format you use, on the appropriate tabs.
- 4 Click **Apply**.
- 5 Click **OK**.



# Uninstalling the Printer Driver

This section describes how to uninstall the KONICA MINOLTA PagePro 1350EN printer driver if necessary.

- 1 Close all applications.
- 2 From the **Start** menu, choose **Programs** (Windows XP: **All Programs**), then **KONICA MINOLTA PagePro 1350EN**, and then **KONICA MINOLTA PagePro 1350EN Uninstall**.
- 3 Confirm the deletion by clicking on **Yes**.
- 4 Restart your computer.
- 5 The KONICA MINOLTA PagePro 1350EN printer driver will be uninstalled from your computer.



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***Working with the  
PCL 6 Printer  
Driver***

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**2**

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# Displaying PCL 6 Printer Driver Settings

## Displaying Settings under Windows XP/Server 2003

- 1 From the **Start** menu, click **Control Panel**.
- 2 In **Pick a category**, click **Printers and Other Hardware**.
- 3 In **Pick a task...**, click **View installed printers or fax printers**.
- 4 In the **Printers and Faxes** directory, select the **KONICA MINOLTA PagePro 1350EN** printer icon.
- 5 To display the printer driver settings, from the **File** menu, click **Printing Preferences...**

## Displaying Settings under Windows 2000/Me/98SE/NT 4.0

- 1 From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.
- 2 Select the **KONICA MINOLTA PagePro 1350EN** printer icon.
- 3 Display the printer driver settings:
  - **Windows 2000**—From the **File** menu, click **Printing Preferences...**
  - **Windows Me/98SE**—From the **File** menu, click **Properties**, and then click the **Printer Properties** tab.
  - **Windows NT 4.0**—From the **File** menu, click **Document Defaults...**

# Using the PCL 6 Printer Driver



*Refer to the printer drivers online help for information on all of the functions.*

## Common Buttons

The buttons described below appear on each tab.

### **OK**

Click to exit the Properties dialog box, saving any changes made.

### **Cancel**

Click to exit the Properties dialog box without saving any changes made.

### **Apply**

Click to save all changes without exiting the Properties dialog box.

### **Help**

Click to view online help.

### **Easy Set**

Click on **Default** to reset the functions of the tab to their original values.

### **Page Layout**

Check this option button to display a sample of the page layout in the figure area.

### **Printer Figure**

Check this option button to display an image of the printer in the figure area.

## Setup Tab

The Setup tab allows you to

- Print several pages of a document on the same page (n-up printing)
- Provide a watermark on printed documents
- Design custom watermarks
- Specify manual duplex printing
- Specify the paper source
- Define the type of media
- Print using a form overlay
- Create/edit a form overlay

## Paper Tab

The Paper tab allows you to

- Specify the size of the original document
- Define custom media sizes
- Fit printed documents to a specified media size
- Select the output media size
- Scale (enlarge/reduce) documents
- Adjust the printing position
- Specify the number of copies
- Turn on/off the printer's sorting function
- Turn on/off the Proof Print function
- Specify the orientation of the media
- Rotate the print image 180° to the media orientation

## Quality Tab

The Quality tab allows you to

- Specify the resolution
- Turn on/off Toner Save mode
- Optimize the exchange of text and graphics data with the printer (All Raster)
- Optimize the print quality of text and graphics (Fine-Art)
- Specify the toner density
- Activate/deactivate the use of TrueType fonts

## Device Options Setting Tab

The Device Options Setting tab allows you to

- Specify the total amount of memory installed in the printer
- View version and copyright information about the printer driver





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***Working with the  
PCL 5e Printer  
Driver***

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**3**

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# Displaying PCL 5e Printer Driver Settings

## Displaying Settings under Windows XP/Server 2003

- 1 From the **Start** menu, click **Control Panel**.
- 2 In **Pick a category**, click **Printers and Other Hardware**.
- 3 In **Pick a task...**, click **View installed printers or fax printers**.
- 4 In the **Printers and Faxes** directory, select the **KONICA MINOLTA PagePro 1350EN 5e** printer icon.
- 5 To display the printer driver settings, from the **File** menu, click **Printing Preferences...**

## Displaying Settings under Windows 2000/Me/98SE/NT 4.0

- 1 From the **Start** menu, point to **Settings**, and then click **Printers** to display the **Printers** directory.
- 2 Select the **KONICA MINOLTA PagePro 1350EN 5e** printer icon.
- 3 Display the printer driver settings:
  - **Windows 2000**—From the **File** menu, click **Printing Preferences...**
  - **Windows Me/98SE**—From the **File** menu, click **Properties**, and then click the **Printer Properties** tab.
  - **Windows NT 4.0**—From the **File** menu, click **Document Defaults...**

# Using the PCL 5e Printer Driver



Refer to the printer driver's online help for information on all of the functions.

## Common Buttons

The buttons described below appear on each tab.

### **OK**

Click to exit the Properties dialog box, saving any changes made.

### **Cancel**

Click to exit the Properties dialog box without saving any changes made.

### **Apply**

Click to save all changes without exiting the Properties dialog box.

## Layout Tab (Windows XP/Server 2003/2000)

The Layout tab allows you to

- Specify the orientation of the media
- Specify the order in which the pages of a document should be printed
- Print several pages of a document on the same sheet of media (n-up printing)

## Paper/Quality Tab (Windows XP/Server 2003/2000)

The Paper/Quality tab allows you to

- Specify a media source
- Identify the type of media to be printed

## Advanced Document Settings Dialog Box (Windows XP/Server 2003/2000)

Click the Advanced... button on either the Layout tab or the Paper/Quality tab to open the Advanced Document Settings dialog box.

The settings in this dialog box allow you to control and fine-tune many of the advanced features of your printer driver. The features are organized in a tree format with three main branches: Paper/Output, Graphic and Document Options.

## Device Settings Tab (Windows XP/Server 2003/2000)

The Device Settings tab is in a different location and must be called up as follows:

- 1 Click the **KONICA MINOLTA PagePro 1350EN 5e** printer icon.
- 2 From the **File** menu, click **Properties**.
- 3 Click the **Device Settings** tab.

The Device Settings tab allows you to view and change the setup of the printer and its options. To change a setting, select the item that you want to change, and then select the desired setting from either the box or dropdown list that appears.

## Paper Tab (Windows Me/98SE)

The Paper tab allows you to

- Specify the media size (see chapter 5 for a list of supported media sizes)
- Define custom media sizes
- Print several pages of a document on the same sheet of media (n-up printing)
- Specify the orientation of the media
- Specify a media source
- Specify the number of copies

## Device Options Tab (Windows Me/98SE)

The Device Options tab allows you to

- Adjust the density of the toner used during printing
- Improve the appearance of text and graphics by using fewer dots (Light) or more (Dark) dots
- Specify the total amount of memory installed in your printer

- Specify how much memory is reserved for special printer functions, such as macros
- Reserve some of the printer's memory for an output buffer (Some very complex documents require page protection in order to print. However, page protection uses more of your printer's memory.)
- Control printer memory tracking

## Page Setup Tab (Windows NT 4.0)

The Page Setup tab allows you to

- Specify the media size (see chapter 5 for a list of supported media sizes)
- Specify a media source
- Specify the number of copies
- Specify the orientation of the media

## Advanced Tab (Windows NT 4.0)

The settings in this window allow you to control and fine-tune many of the advanced features of your printer driver. The features are organized in a tree format with three main branches: Paper/Output, Graphic and Document Options.

To change the setting for a feature, first select the feature in the top window and then select one of the corresponding settings in the bottom window.

## Device Settings Tab (Windows NT 4.0)

The Device Settings tab is integrated in a different system sector and must be called up separately.

- 1 Select the **KONICA MINOLTA PagePro 1350EN 5e** printer icon.
- 2 From the **File** menu, click **Properties**.
- 3 Click the **Device Settings** tab.

The Device Settings tab allow you to view and change the setup of the printer and its options. To change a setting, select the item that you want to change, and then select the desired setting from either the box or dropdown list that appears.

To change the setting for a feature, first select the feature in the top window and then select one of the corresponding settings in the bottom window.



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***Working with the  
Status Display***

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**4**

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# Working with the Status Display



Refer to the Status Display's online help for more information on all of these functions.

## Introduction

The Status Display shows information about the current status of the computer's local printer.

## Environment

The Status Display can be used with Windows XP, Server 2003, 2000, Me, 98SE and NT 4.0 connected via a parallel cable, USB or network cable.



*Windows NT 4.0 does not support a USB connection.*

## Opening the Status Display

Use one of the following steps to open the Status Display.

- **Windows XP/Server 2003**—Choose Start, All Programs, then KONICA MINOLTA PagePro 1350EN, and then KONICA MINOLTA PagePro 1350EN status.
- **Windows 2000/Me/98SE/NT 4.0**—From the Start menu, choose Programs, then KONICA MINOLTA PagePro 1350EN, and then KONICA MINOLTA PagePro 1350EN status.

## Altering the Size of the Status Display Window

- From the **Display** menu, choose **Reduce** to decrease the size of the window, or
- From the **Display** menu, choose **Expand** to increase the size of the window.

## Printing Special Pages

- Print Operator Panel Status Sheet.
- Print Configuration Page.
- Print PCL font list
- Print Demo Page



## Opening the Control Panel

The Control Panel lets you check the basic settings of the printer and set alerts. Perform the following step to open the Control Panel.

- From the Display menu, choose **Printer Setting...**



*When your printer is connected to a network by means of the Ethernet interface, choosing 'Printer Setting' automatically opens the Page-Scope web connection. For details, refer to the Reference Guide on the PagePro 1350EN Utilities & Documentation CD-ROM.*

## Paper tab

The Paper tab allows you to

- Specify how the printer should respond to a media size error (the requested media size is not available)
- Specify whether Tray 1 is to be used as a multipurpose tray or as a tray set to a single media size

## Printer Setting Tab (USB and Parallel)

The Printer Setting tab allows you to

- Specify whether a print job is to continue after a certain amount of time has elapsed despite a media size error
- Turn on/off the detection of a media size error
- Define Personality. Default is Auto.
- Define the internal Printer language.
- Define Courier type. Default is Regular.
- Determine the time elapsed before the printer will go into Energy Save mode.
- Turn on/off the Midnight Mode and specify the length of time until the printer automatically enters the Midnight Mode
- Define the length of time the printer waits for the end of a print job before timing out
- Define the language used for the internal printer test pages

## Counter Tab

The Counter tab allows you to

- Check the status of papertrays and toner.

## Configuration Tab

The Configuration tab summarizes the most important printer settings for quick reference. No settings can be specified on this tab.

## Using the Status Display

- When the background of the right-hand printer graphic is green, the printer is in standby mode or a job is printing normally.
- When the background of the right-hand printer graphic is red, there is an error and the job has been interrupted. The status of the printer and the error message are shown in the dialog boxes on the left.

The function areas include:

- **Printer Status**—Displays text messages that describe the current operational status of the printer.
- **How to recover**—Provides you with explanations of what you need to do in order to correct problems and recover from error conditions.
- **Warning Status**—Displays text messages that alerts you of such conditions as low toner.
- **Printer Status figure**—Shows a graphic representation of the printer and indicates where the problem is.
- **Printing Status**—Displays the status of the current print job.
- **Popup Setting**—Allows you to choose which message(s) you want to bring to the foreground when that particular condition occurs with the printer.
- **Supplies Status**—Displays toner cartridge usage status (percentage remaining).

## Recognizing Status Display Alerts

When the Status Display detects a printing problem, several actions occur at the same time, depending on your settings. First, the icon changes from green to yellow or red, depending on the severity of the printer problem.

## Recovering from a Status Display Alert

When the Status Display notifies you of a printing problem, double-click on its icon to open the Status Display. The Status Display identifies which printer has an error and what type of error has occurred.

## Closing the Status Display

To close the Status Display from the File menu, choose **Exit**.



*If you click the **X** button in the upper-right corner of the Status Display window to close the window, the Status Display remains available at the bottom right of the taskbar. Double-click the icon to open it again.*



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*Using Media*

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**5**

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# About Media

## What sizes/weights of media can I use?

Media	Media Size		Weights
	Millimeters	Inches	
A4	210.0 × 297.0	8.2 × 11.7	60–90 g/m <sup>2</sup> (16–24 lb)
B5 (JIS)	182.0 × 257.0	7.2 × 10.1	
A5	148.0 × 210.0	5.9 × 8.3	
Legal	215.9 × 355.6	8.5 × 14.0	
Letter	215.9 × 279.4	8.5 × 11.0	
Statement	140.0 × 216.0	5.5 × 8.5	
Executive	184.0 × 267.0	7.25 × 10.5	
Folio	210 × 330.0	8.25 × 13.0	
Letter Plus	216 × 322	8.5 × 12.69	
UK Quarto	203 × 254	8 × 10	
Foolscap	203 × 330	8 × 13	
G. Letter	203 × 267.0	8 × 10.5	
G. Legal	216 × 330	8 1/2 × 13	
Chinese 16K	185.0 × 260.0	7.3 × 10.2	
Chinese 32K	130.0 × 185.0	5.1 × 7.3	
16K	195 × 270	7 3/4 × 10 3/4	
B5 (ISO)	176.0 × 250.0	6.6 × 9.8	91–163 g/m <sup>2</sup> (25–90 lb)
Envelope #10	105 × 241	4.125 × 9.5	
Envelope C5	162.0 × 229.0	6.4 × 9.0	
Envelope DL	110.0 × 220.0	4.3 × 8.7	
Envelope Monarch	98.0 × 191.0	3.875 × 7.5	
Envelope C6	114.0 × 162.0	4.5 × 6.4	
Envelope Cho #3	120 × 235	4 3/4 × 9 1/4	
Envelope Cho #4	90 × 205	3 1/2 × 8	
Japanese Postcard	100.0 × 148.0	3.9 × 5.8	
Double Postcard	148 × 200	5 3/4 × 7 3/4	
Thick stock			91–163g/m <sup>2</sup> (25–90 lb)

## What type and amount of media can I load?

Media Source/Maximum Amount  Media Type		Input Capacity	
		Tray 1	Manual Feed Tray
Plain Paper	60–90 g/m <sup>2</sup> (16–24 lb)	250 sheets	1 sheet
Special Media	Envelopes	10 sheets	1 sheet
	Label sheets	10 sheets	1 sheet
	Letter head	10 sheets	1 sheet
	Postcards (Japanese Size)	50 sheets (first face)	1 sheet
		20 sheets (second face)	1 sheet
	Thick paper 91–163 g/m <sup>2</sup> (24–90 lb)	10 sheets	1 sheet
Transparencies	5 sheets	1 sheet	

### Note

**Do not allow media to go above the fill limit mark inside the tray or the media may not be fed correctly.**

## Media Storage

Keep media on a flat, level surface in its original wrapper until it is time to load it.

If media has been removed from its wrapper, place it in its original packaging and store in a cool, dark place.

### When storing media, avoid

- Moisture, excess humidity

*Keep media between 30% to 65% relative humidity. Toner does not adhere well to moist or wet paper*

*On the other hand, media that has been stored for a long time without staying in its packaging may dry up too much and also cause jamming.*

- Direct sunlight
- Excess heat (up to 35° C/95° F)
- Dust
- Leaning against other objects or placed in an upright position

Before purchasing a large quantity or special media, do a trial printing with the same media and check the print quality.

## Media Not Suitable for Printing

### Note

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**Do not use the media types listed below. These could cause poor print quality, media jams, or damage to the printer. Also, using them will void your warranty.**

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- Coated with a processed surface (such as carbon paper, digitally gloss-coated media, colored paper that has been treated)
- Carbon backed
- Iron-on transfer media (heat-sensitive paper, heat-pressure paper, heat-press transfer paper)
- Cold water transfer paper
- Pressure sensitive
- Special media designed specifically for **inkjet printers** (superfine paper, glossy paper, glossy film, postcards, etc.)
- Media that has already been printed with
  - An inkjet printer
  - A monochrome or color laser printer or copier
  - A heat-transfer printer
  - Another printer or fax machine
- Wet (or damp)
- Layered
- Adhesive
- Folded, creased, curled, embossed, warped, or wrinkled
- Perforated, three-hole punched, or torn
- Too slick, too coarse, too textured
- Different in texture (roughness) on the front and back
- Too thin or too thick
- Stuck together because of static electricity
- Composed of foil or gilt; too luminous
- Heat sensitive or cannot withstand the fusing temperature (205° C/401° F)
- Irregularly shaped (not rectangular or not cut at right angles)
- Attached with glue, tape, paper clips, staples, ribbons, hooks, or buttons



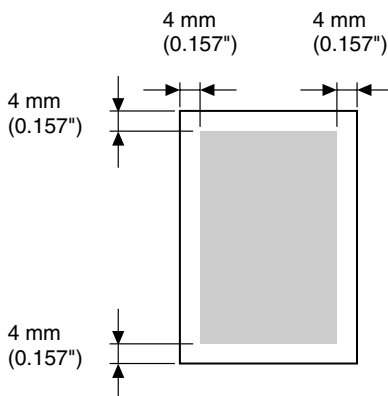
- Acidic
- Any other media that is not approved

**Use media that is**

- Suitable for plain-paper laser printers, such as standard paper

## What is the guaranteed imageable (printable) area?

Each media size has a specific imageable area, the maximum area on which the printer can print clearly and without distortion.



## Page Margins

Margins are set through your application. Some applications allow you to set custom page sizes and margins while others have only standard page sizes and margins from which to choose. If you choose a standard format, you may lose part of your image (due to imageable area constraints). If you can custom-size your page in your application, use those sizes given for the imageable area for optimum results.

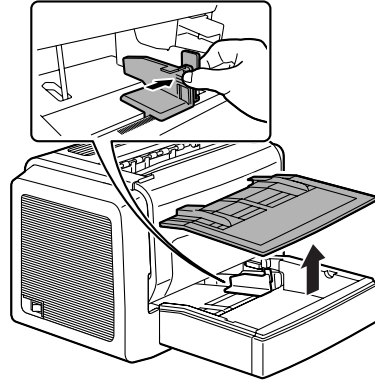
# Loading Media

## How do I refill Tray 1?



*Refill the tray only when it is completely empty.*

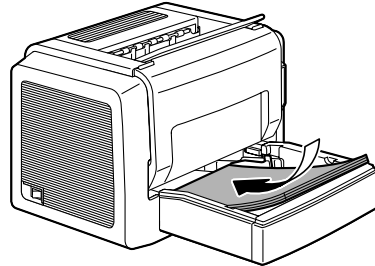
- 1 Remove the tray cover from Tray 1. Squeeze the right paper guide and open the paper guides.



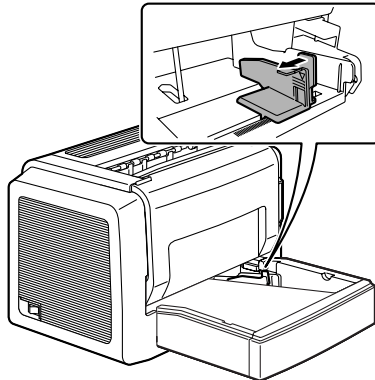
- 2 Load the media lengthwise and printing-side up in the tray.

*A maximum of 250 sheets (75 g/m<sup>2</sup> [20 lb] plain paper) can be loaded. If media is loaded past the media limit mark, it may not be fed correctly.*

*Load letterhead with the side to be printed facing up and the pre-printed letterhead at the top (facing the printer).*



- 3 Squeeze the right paper guide and adjust the paper guides so that both the left and right sides of the media are secure. Then, re-place the tray cover onto Tray 1.

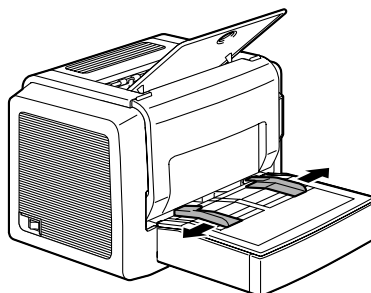


## How do I refill the manual feed tray?

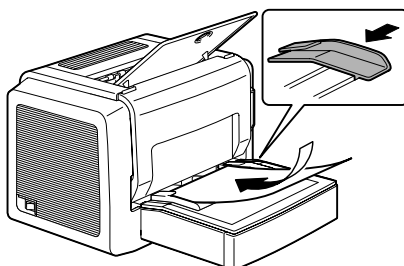


*When using the manual feed tray, the sheet of paper must be fed in one at a time.*

- 1 Make sure that the tray cover is properly attached to Tray 1.
- 2 Open the paper guides.



- 3 Insert the sheet of paper as far as possible into the manual feed tray with the side to be printed on facing up, and then adjust the paper guides so that both sides of paper are secure.



# Printing on Media

## How do I load and print custom media?

**Do not use custom media that does not have approved dimensions**

- **Width:** 76 mm (3") up to 216 mm (8.5")
- **Length:** 127 mm (5") up to 356 mm (14")

- 1 In the printer driver (**Setup tab/Media Type** option), select Plain Paper.
- 2 Set the media size (**Paper tab/Original Document Size/Edit Custom...**)
- 3 Load the custom media lengthwise and printing-side up in Tray 1.
- 4 Adjust the paper guides to the width of the custom media.

### **Note**

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 5 Print the custom media.

## How do I load and print envelopes?



*Before printing on envelopes, we recommend printing a test page. If the print result is not oriented as desired, select **Rotated (Paper tab/Orientation** option).*

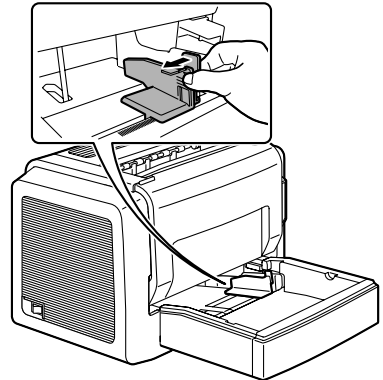
**Do not use envelopes that have**

- Sticky flaps
- Tape seals, metal objects, paper clips, fasteners, or peel-off strips for sealing
- Transparent windows
- Rough surface
- Material that will melt, vaporize, or emit dangerous fumes
- Been presealed

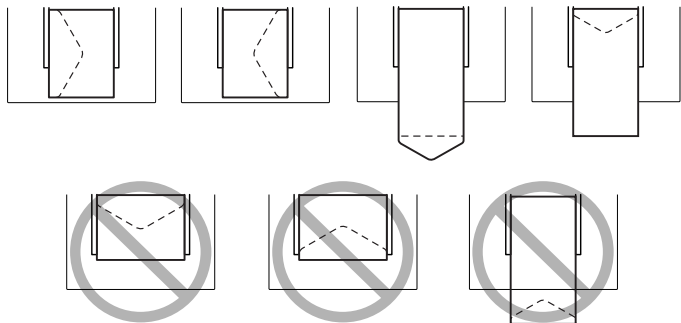
### Use envelopes that are

- Common office envelopes with diagonal joints, sharp folds and edges, and ordinary gummed flaps
- Approved for laser printing
- Dry

- 1 In the printer driver (**Setup** tab/**Media Type** option), select **Envelope**.
- 2 Select the size of the envelope (**Paper** tab/**Original Document Size** option).
- 3 Remove the tray cover from Tray 1. Place the envelopes on a flat surface, and flatten them by pressing down the corners.
- 4 Flex the envelope stack (including the edges) to remove any stiffness.
- 5 Correct any bent corners, and tap the envelopes on a flat surface to align them.
- 6 Squeeze the right paper guide and open the paper guides.



- 7 Load the envelopes lengthwise and the printing-side up as shown in the illustrations.



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## Note

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**Print envelopes on the front address side only. Some parts of the envelope consist of three layers of paper—the front, back, and flap. Anything printed in these layered regions may be lost or faded.**

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- 8 Recheck the paper guides to make sure they are adjusted to the width of the envelopes.

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## Note

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 9 Print the envelopes.
- 10 Open the flap of each envelope immediately (before it cools) after the envelope is delivered to the output tray.



*Because the envelopes pass through heated rollers, the gummed area on the flaps may seal. Using envelopes with emulsion-based glue avoids this problem.*

## How do I load and print labels?

A label consists of a face sheet (the printing surface), adhesive, and a carrier sheet:

- The face sheet must follow the plain paper specification.
- The face sheet surface must cover the entire carrier sheet, and no adhesive should come through on the surface.

You can print continuously with label paper. However, this could affect the media feed, depending on the media quality and printing environment. If problems occur, stop the continuous print and print one sheet at a time.

Format label data within your application. Try printing your data on a plain sheet of paper first to check placement. Check your application documentation for other information on printing labels.

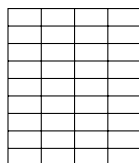
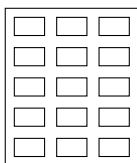
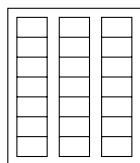
### **Do not use label sheets that**

- Have labels that easily peel off

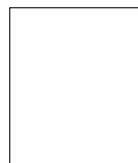
*Labels may stick to the fuser, causing them to peel off and media jams to occur.*

- Are precut

Do not use



OK to use



Full page labels  
(uncut)

### Use label sheets that are

- Recommended for laser printers

- 1 In the printer driver (**Setup** tab/**Media Type** option), select **Thick Paper**.
- 2 Select the size of the label (**Paper** tab/**Original Document Size** option).
- 3 Remove the tray cover from Tray 1. Load the label media lengthwise and printing-side up in Tray 1.
- 4 Adjust the paper guides to the width of the label media.

### Note

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 5 Print the labels.

## How do I load and print postcards?

### Do not use postcards that are

- Coated
- Warped or bent
- Designed for inkjet printers
- Multicolored
- Preprinted or multicolored (may result in printer jamming)

### Use postcards that are

- Postcards (100 × 148 mm/3.9 × 5.8 in.) recommended for laser printers

- 1 In the printer driver (**Setup** tab/**Media Type** option), select **Postcard**.
- 2 Select the size of the postcard (**Paper** tab/**Original Document Size** option).

- 3 Remove the tray cover from Tray 1. Place the postcards on a flat surface, and flatten them by pressing down the corners.
- 4 Remove any media in Tray 1.
- 5 Load the postcard media lengthwise and printing-side up in Tray 1.
- 6 Adjust the paper guides to the width of the postcards.

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**Note**

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 7 Print the postcards.

## How do I load and print thick stock?

Test all thick stock to ensure acceptable performance and to ensure that the image does not shift.

**Do not use thick stock that is**

- Mixed with any other media in the media trays (as this will cause printer jamming)

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**Note**

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**Do not mix thick stock with any other media in the same tray, as this will cause printer jamming.**

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- 1 In the printer driver (**Setup** tab/**Media Type** option), select **Thick Paper**.
- 2 Select the size of the stock (**Paper** tab/**Original Document Size** option).
- 3 Remove the tray cover from Tray 1. Load the thick stock media lengthwise and printing-side up in Tray 1.
- 4 Adjust the paper guides to the width of the thick stock.

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**Note**

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 5 Print the thick stock.



# How do I load and print transparencies?

## Note

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**Using unsupported transparency media such as coated color transparencies will result in damaging the printer and in voiding your warranty.**

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Remove transparency media as soon as possible from the output tray to avoid static buildup.

If you touch the face of transparencies with your bare hands, print quality may be affected. Do not handle transparency media too much.

You can print continuously with transparencies. However, this could affect the media feed, depending on the media quality, static buildup, and printing environment. If you have problems loading a large number of transparencies at a time, try loading only 1–10 sheets.

### Do not use transparencies that

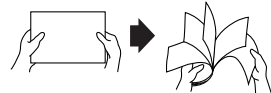
- Are coated, such as transparencies designed for color printers or copiers
- Have static electricity that will cause them to stick together

### Use transparencies that are

- Monochrome, uncoated transparencies (also known as OHP film)
- 1 In the printer driver (**Setup** tab/**Media Type** option) select **Transparency**.
  - 2 Select the size of the transparency (**Paper** tab/**Original Document Size** option).
  - 3 Fan a few transparencies.



*Fanning a large number will build up static electricity.*



- 4 Remove the tray cover from Tray 1. Load the transparency media lengthwise and printing-side up in Tray 1.
- 5 Adjust the paper guides to the width of the transparencies.

## Note

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**Improperly adjusted guides may cause poor print quality, media jams, or printer damage.**

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- 6 Print the transparencies.
- 7 Immediately remove the printed transparencies from the output tray.

# Manual Duplexing

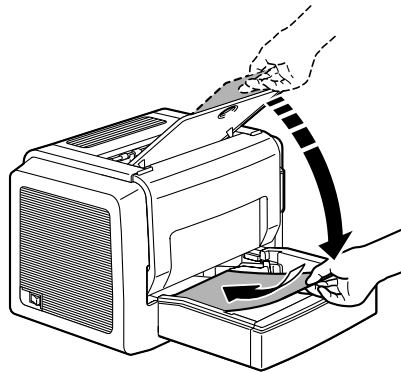
Select paper with high opacity for duplex (2-sided) printing. For best results, print a small quantity to make sure the opacity is acceptable.

## How do I manually duplex?



*Media jams may occur if the printed sheet(s) reinserted are not entirely flat.*

- 1 In the printer driver (**Setup** tab/**Duplex/Booklet** option), select the appropriate setting from **Short Edge Binding**, **Long Edge Binding**, **Booklet Left Binding**, or **Booklet Right Binding**.
- 2 From the print dialog box of your software, select the necessary settings and print all pages.
- 3 Remove the single-sided print-outs from the output tray, and then insert them into Tray 1 with the same orientation that they were fed out.



- 4 Click Proceed on the screen of your PC or press the Cancel button.

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***Replacing  
Consumables***

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**6**

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When replacing a toner cartridge, refer to the following table. For optimum print quality and performance, use only approved KONICA MINOLTA toner cartridges for your specific printer type, as listed in the table below. You can find your printer type and the toner cartridge part numbers on the consumables reorder label on the inside of the front cover of your printer.

Printer Type	Printer Part Number	Toner Cartridge Type	Toner Cartridge Part Number
EU	5250232-200	Standard-Capacity Toner Cartridge	1710566-002
		High-Capacity Toner Cartridge	1710567-002
		Drum Cartridge	1710568-001

### **Note**

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**If a toner cartridge used is of an unapproved type, cleaning will be performed after each page is printed, which reduces the print speed.**

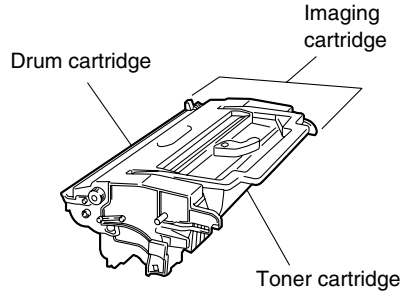
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# Replacing the Toner Cartridge

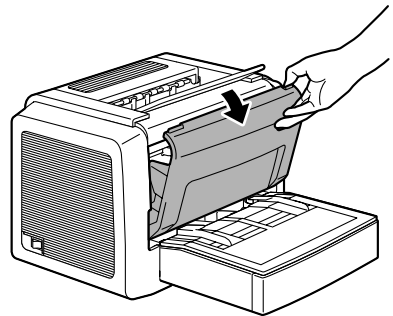
When it is time to replace the toner cartridge, “Toner Cartridge Low” displays in the Status Display. The supplies status indication in the Status Display is only a reference. Printing can continue even though the warning appears. However, printing gradually fades out, so replace the toner cartridge as soon as possible.



*In this manual, a toner cartridge attached to a drum cartridge is referred to as an imaging cartridge.*



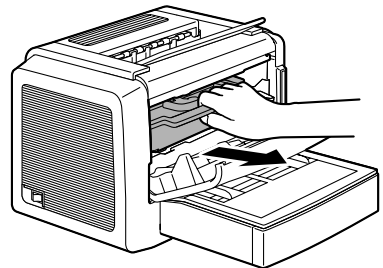
- 1 Open the front cover.



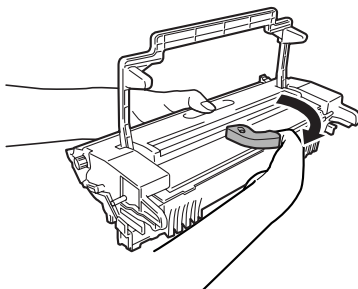
- 2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.

## Note

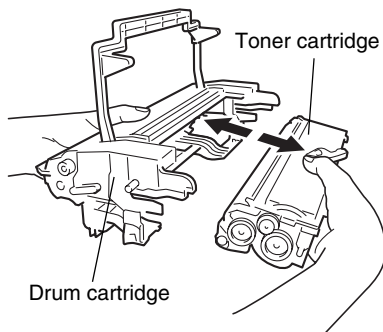
**Do not expose the imaging cartridge to light for a long period of time. If the drum cartridge is exposed to light, decreased image quality may result.**



- 3** Move the lever on the toner cartridge in the direction of the arrow.



- 4** Using both hands, separate the toner cartridge and drum cartridge.



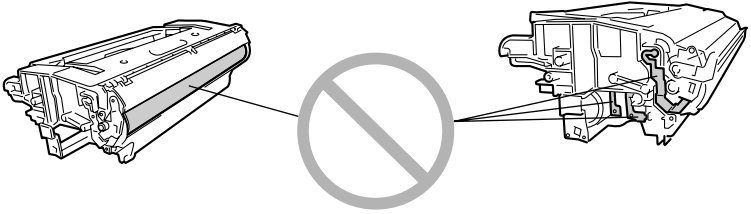
## **Note**

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**When separating the toner cartridge and drum cartridge, keep them level.**

**Do not touch the OPC drum under the flap of the drum cartridge, otherwise decreased image quality may result.**

**Do not touch any metal parts of the drum cartridge and toner cartridge, otherwise damage from static electricity may result.**

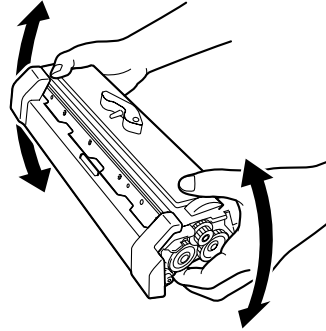


5 Remove a new toner cartridge from its box.

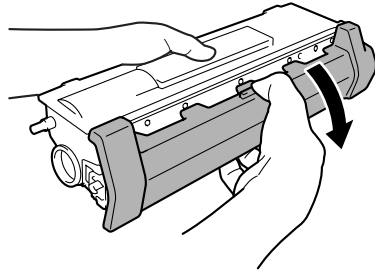


*Do not throw away the box. It may be used to pack the used toner cartridge.*

6 Holding it firmly with both hands, rock the toner cartridge left and right, to distribute the toner evenly.



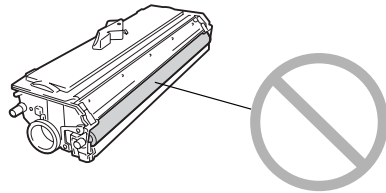
7 Remove the protective cover from the toner cartridge.



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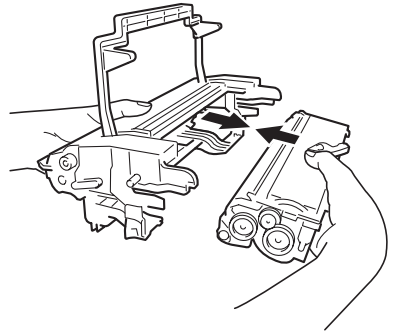
### Note

**Do not touch the developing roller of the toner cartridge, otherwise decreased image quality may result.**

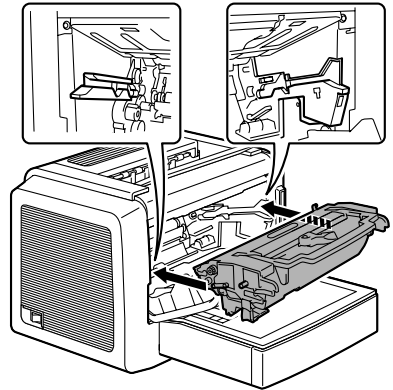




- 8 Holding both the toner cartridge and the drum cartridge in your hands, align the colored guide on the drum cartridge with the matching colored projection on the toner cartridge to fit the two cartridges together.



- 9 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.



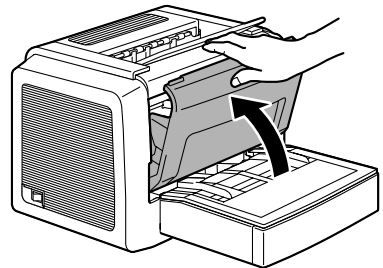
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**Note**

**Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.**

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- 10 Close the front cover.



# Replacing the Drum Cartridge

When the printed documents become faint or blurred, the drum cartridge may be at the end of its life.

The drum cartridge has a capacity of about 16,000 (one-page jobs) to 20,000 (continuous printing) letter/A4 pages (at an average of 5% or less toner coverage).

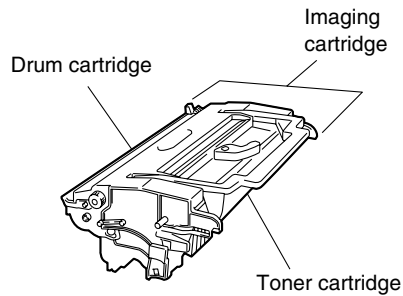
Select the **Print** menu in the Status Display, print out the Configuration page (**Print Configuration Page**), and then check the total number of prints.

## Note

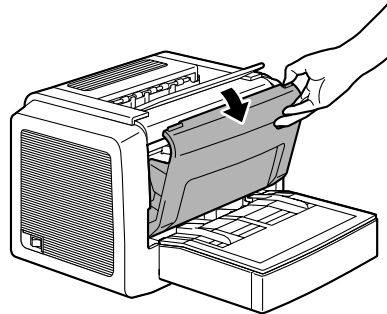
**The OPC drum is extremely sensitive to bright light, direct sunlight, and touch. Always leave the drum cartridge in its protective package until you're ready to install it.**



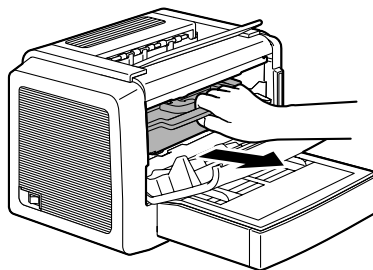
*In this manual, a toner cartridge attached to a drum cartridge is an imaging cartridge.*



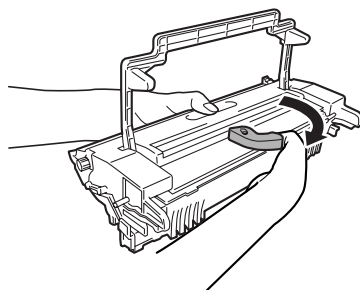
- 1 Open the front cover.



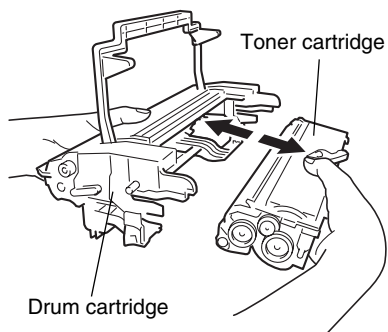
- 2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.



- 3 Move the lever on the toner cartridge in the direction of the arrow.



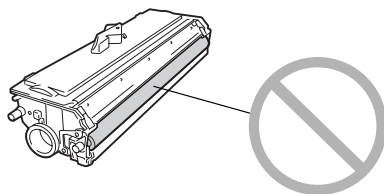
- 4 Using both hands, separate the toner cartridge and drum cartridge.



### Note

When separating the toner cartridge and drum cartridge, keep them level.

Do not touch the developing roller of the toner cartridge, otherwise decreased image quality may result.

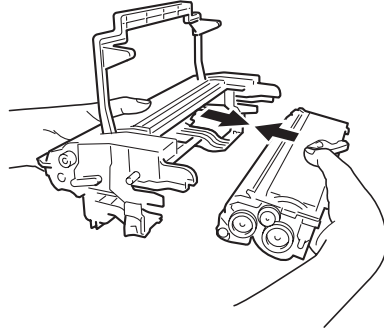


- 5 Remove a new drum cartridge from its box.



*Do not throw away the box. It will be used to pack the used drum cartridge.*

- 6** Holding both the toner cartridge and the drum cartridge in your hands, align the colored guide on the drum cartridge with the matching colored projection on the toner cartridge to fit the two cartridges together.

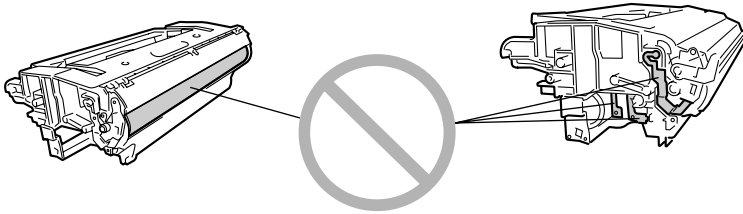


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### Note

**Do not touch the OPC drum under the flap of the drum cartridge, otherwise decreased image quality may result.**

**Do not touch any metal parts of the drum cartridge and toner cartridge, otherwise damage from static electricity may result.**



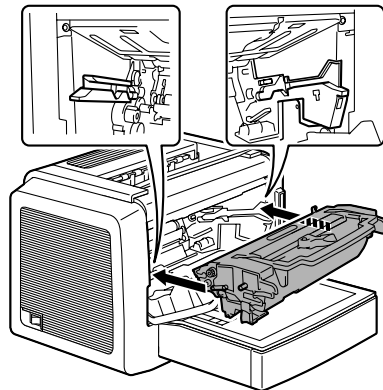
- 
- 7** Align the imaging cartridge with the guides in the printer, and then insert the cartridge.

---

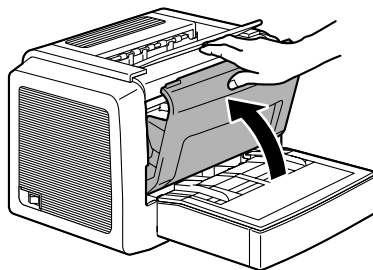
### Note

**Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.**

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- 8 Press on the front cover grip and close the front cover.





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***Maintaining the  
Printer***

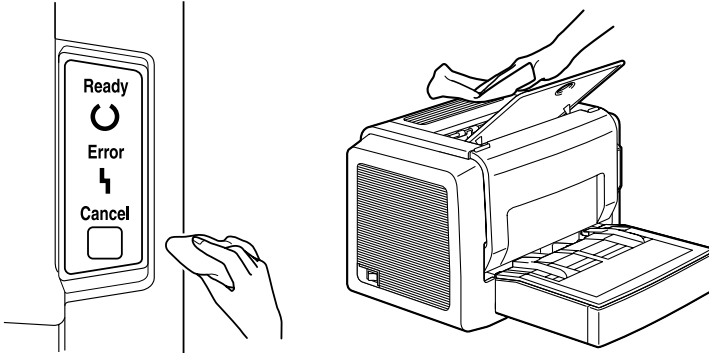
---

**7**

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# Cleaning the Printer

## Exterior



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### Note

Never spray cleaning solutions directly on the printer's surface; the spray could penetrate through the air vents of the printer and damage the internal circuits.

---



### CAUTION

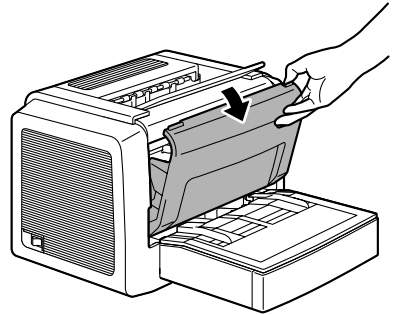
**Do not spill water or detergent into the printer, otherwise the printer will be damaged and an electric shock may occur.**

---



## Pick-up Roller

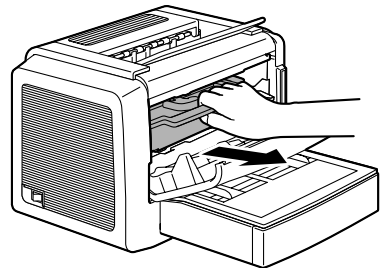
- 1 Turn off the printer, unplug the power cord, and disconnect all interface cables before cleaning.
- 2 Grab the front cover grip and open the front cover.



- 3 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.

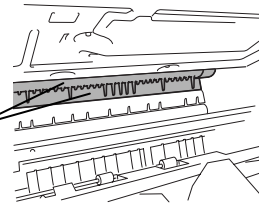
### Note

Do not expose the imaging cartridge to light for a long period of time. If the drum cartridge is exposed to light, decreased image quality may result.



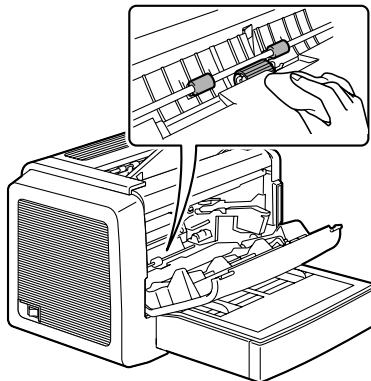
## CAUTION

The fusing unit is extremely hot. Touching any part near the fusing unit may result in burns.



Do not touch the image transfer roller inside the printer, otherwise decreased image quality may result.

- 4 Wipe the pick-up roller with a soft, dry cloth.



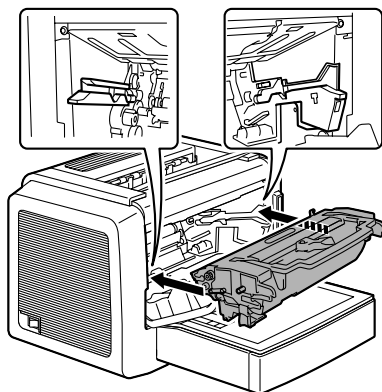
- 5 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.

**Note**

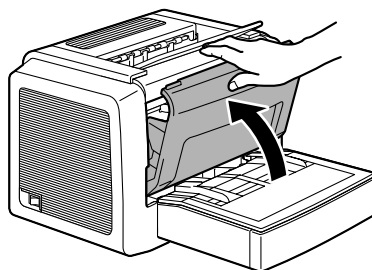
---

**Do not insert the imaging cartridge at an angle or with extreme force; otherwise, the printer may be damaged.**

---



- 6 Close the front cover.



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***Troubleshooting***

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**8**

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# Indicator Messages

The control panel indicators (Ready, Error) provide information about your printer and help you locate each problem.

The indicators may show six types of signals:

- Off
- On
- Slow blinking—1 blink every 2 seconds
- Blinking—1 blink per second
- Rapid blinking—2 blinks per second
- Alternate blinking—Alternate

## Status Message

Status messages indicate the current condition of the printer. The printer status also can be checked on the Status Display. (Refer to the “Working with the Status Display” on page 24.)

Ready indicator (green)	Error indicator (orange)	Condition	Action
Off	Off	Power off	None
On	Off	Ready to print	None
Rapid blinking	Off	Warming up	None
Blinking	Off	Processing data	None
		Printing	
On	On	Initializing (power on)	None
		Canceling a print job	
		Resetting a counter	
Slow blinking	Off	Power save mode	None

Ready indicator (green)	Error indicator (orange)	Condition	Action
On	Slow blinking	Toner near empty	Prepare the toner cartridge.
On	Blinking	Toner empty	Replace the toner cartridge.
On	Rapid blinking	End of toner cartridge service life	Replace the toner cartridge.
		No toner cartridge is installed.	Install the toner cartridge.
		Unapproved toner cartridge installed.	Install a KONICA MINOLTA toner cartridge.

### **Note**

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**If a toner cartridge used is of an unapproved type, cleaning will be performed after each page is printed, which reduces the print speed.**

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## Error Messages

These messages indicate errors which you must correct before a print job can continue or the printer status returned to "Ready".

Ready indicator (green)	Error indicator (orange)	Condition	Action
Blinking		Memory Overflow or Job too Complex	Hold down the Cancel button for more than 5 seconds to cancel the print job. Decrease the amount of data to be printed (for example, by decreasing the resolution or by printing only a few pages at a time), and then try printing again. If that does not solve the problem, install an optional memory module.
		Communication Error.	Check the printer cable.
		Video Under-run	Hold down the Cancel button for more than 5 seconds to cancel the print job. Decrease the amount of data to be printed (for example, by decreasing the resolution), and then try printing again.

Ready indicator (green)	Error indicator (orange)	Condition	Action
Rapid blinking alternately		No media in the tray specified in the printer driver.	Load the appropriate type of media into Tray 1 or the manual feed tray, and then press the Cancel button (less than 5 seconds.)
		Media size error If the "Auto Continue" option has been activated in the Status Display, the sheet already fed in, is automatically ejected after a predetermined time.	Load the appropriate size media into Tray 1 or the manual feed tray, and then press the Cancel button (less than 5 seconds.)
		Waiting for the Manual Duplex.	Reload the media so the second side can be printed, and then press the Cancel button (less than 5 seconds.) (Refer to the "Manual Duplexing" on page 42.)
		Waiting for a proof print	Press the Cancel button (less than 5 seconds) if the proof print is acceptable to continue the print job. If it is not acceptable, hold down the Cancel button for more than 5 seconds to cancel the current job.
Off	Slow blinking	Paper empty	Load media into Tray 1 or the manual feed tray, and then press the Cancel button (less than 5 seconds.)

<b>Ready indicator (green)</b>	<b>Error indicator (orange)</b>	<b>Condition</b>	<b>Action</b>
Off	Blinking	Media jam	Clear the jam, close the front cover, and then continue with the print job.
Off	On	Front cover or top cover is open.	Close the front cover or top cover.

## Service Messages

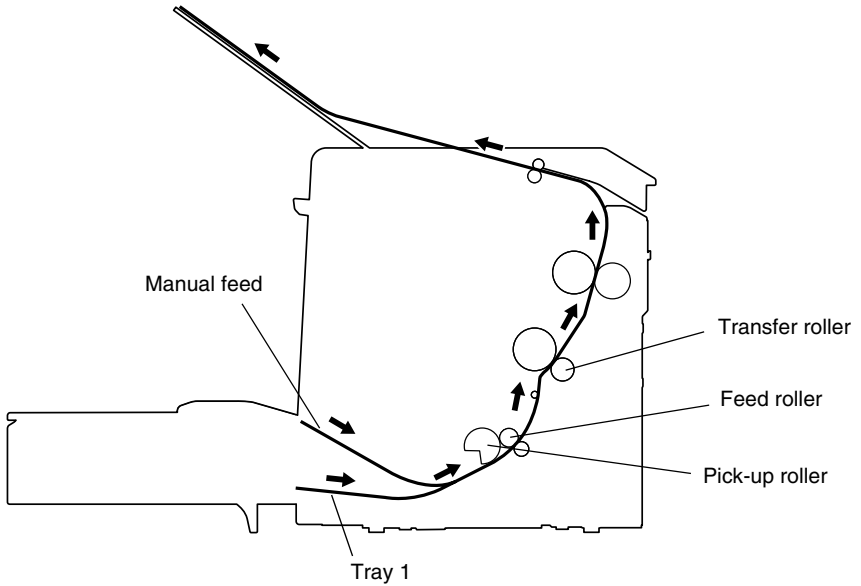
This message indicates a more serious fault that can only be corrected by a customer service engineer.

<b>Ready indicator (green)</b>	<b>Error indicator (orange)</b>	<b>Condition</b>	<b>Action</b>
Off	Rapid blinking	Fatal error	Turn the printer off, then on again. If the problem persists, contact your vendor or authorized service provider.

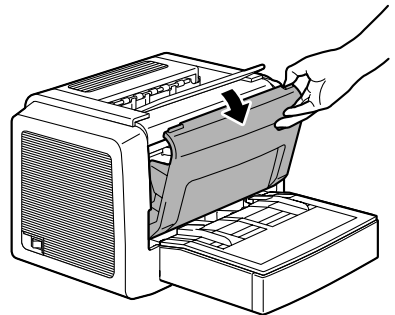


# Clearing Jams

Understanding the printer's media path will help you locate media jams.



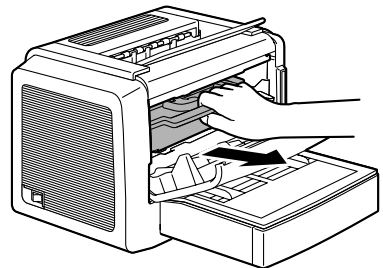
- 1 Open the front cover.



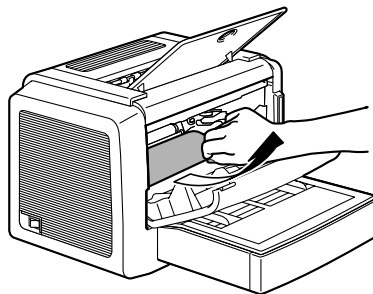
- 2 Pull the handle of the imaging cartridge toward you, and then pull out the imaging cartridge.

## Note

**Do not expose the imaging cartridge to light for a long period of time, otherwise decreased image quality may result.**



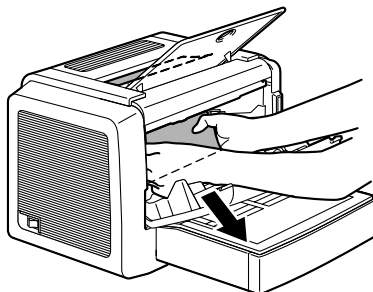
- 3 Pull out the jammed media along the feeding direction.



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### Note

If media is jammed in the fusing unit, pull the media downward to remove it.

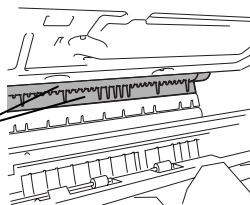


### CAUTION

The fusing unit is extremely hot. Touching any part near the fusing unit may result in burns.



Do not touch the image transfer roller inside the printer, otherwise decreased image quality may result.



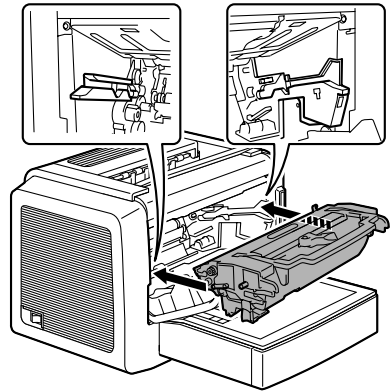
- 4 Align the imaging cartridge with the guides in the printer, and then insert the cartridge.

**Note**

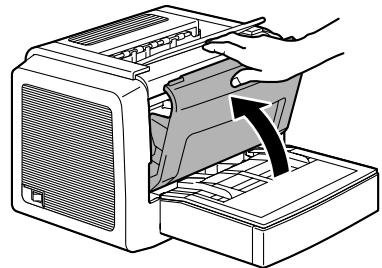
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**Do not insert the imaging cartridge at an angle or with extreme force, otherwise the printer may be damaged.**

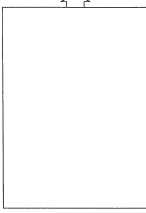
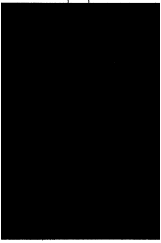
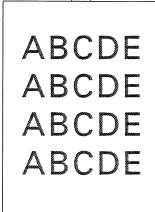
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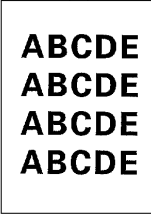
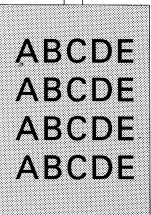
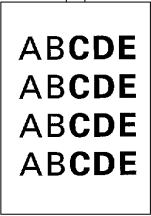
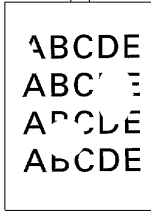


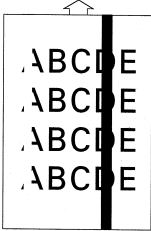
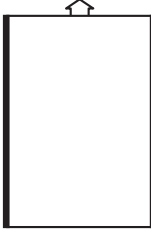
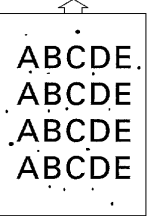
- 5 Close the front cover.




# Solving Problems-Printing Quality

Symptom	Cause	Solution
Blank page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Black page 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	Your printer may require servicing.	Contact your local vendor, or refer to the General Information Guide.
Print too light 	The toner cartridge may be running out of toner.	Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.  If the problem persists, replace the toner cartridge.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.

Symptom	Cause	Solution
Print too dark 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Blurred background 	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
Uneven print density 	The toner may be unevenly distributed inside the toner cartridge.	Remove the toner cartridge and shake it left and right a few times to distribute the remaining toner.
	The toner cartridge may be defective.	Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.
	The image transfer roller may be defective.	Contact your local vendor.
Irregularities 	The media may have absorbed some moisture due to high humidity or because of direct contact with water.	Since toner will not adhere well to wet media, replace the media you are using with dry media and try printing again.

Symptom	Cause	Solution
<p>White or black lines</p> 	<p>The toner cartridge may be defective.</p>	<p>Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.</p>
<p>Dark lines on the edges.</p> 	<p>The transfer roller is dirty.</p>	<p>Contact your local vendor.</p>
<p>Toner smudges</p> 	<p>The toner may be unevenly distributed inside the toner cartridge.</p>	<p>Remove the toner cartridge and shake it left and right a few times to distribute remaining toner.</p>
	<p>The toner cartridge may be defective.</p>	<p>Remove the toner cartridge and check it for damage. Replace the toner cartridge, if necessary.</p>
	<p>Smudges on the media indicate a dirty feed roller.</p>	<p>Contact your local vendor.</p>

Symptom	Cause	Solution
There is insufficient fusing or the image comes off when rubbed.  	The media is moist from humidity.	Remove the moist media and replace it with new, dry media.
	Media with specifications not covered by the printer warranty is being used.	Use media that is covered by the printer warranty.
	The media type may be incorrectly set.	When printing envelopes, labels, thick stock, and transparencies, the appropriate media type must be specified in the printer driver.

## Note for Windows Me/98SE USB users

When you are using a USB connection and you cannot select the USB port during the installation of the KONICA MINOLTA PagePro 1350EN driver and utilities in Windows Me or Windows 98SE, cancel the CD-ROM installation procedure and remove the PagePro 1350EN Utilities & Documentation CD-ROM from the PC's CD-ROM/DVD drive. Then proceed as follows :

- 1 Disconnect the USB cable from the printer side (leave the connector on the PC side).
- 2 Turn off the printer and the PC. Then turn both on again. Wait until the PC and printer are ready.
- 3 Insert the PagePro 1350EN Utilities & Documentation CD-ROM in the CD-ROM/DVD drive of your PC. When the CD-ROM Installer shows up, cancel it.
- 4 Connect the USB cable with the printer. Now, the 'New Hardware Found' wizard shows up.  
**Windows Me** : Proceed with step 5.  
**Windows 98SE** : Wait until the 'Add New Hardware' wizard screen appears. Then click on **Next**.
- 5 In the 'Add New Hardware' screen, select **Automatic search for a better driver (Recommended)**. Then click on **Next**.
- 6 **Windows Me** : Proceed with step 7.  
**Windows 98SE** : When the next dialog appears, check the 'Specify a

location' box and then click on **Browse**. Browse the CD-ROM and navigate to : drivers\Win9x\USB. Then click on **OK**. Click on **Next** to display the next dialog. Click on **Next** again to display the next dialog.

- 7 Wait until Windows finished the installation and then click on **Finish**. You have now installed the USB Printing Support driver (this is not the printer driver).
- 8 The 'New Hardware Found' wizard shows up for a second time. Wait until the (second) 'Add New Hardware' wizard displays.  
Now, select **Cancel**. *Do not install the printer driver using the (second) wizard!*
- 9 Browse the PagePro 1350EN Utilities & Documentation CD-ROM and double-click on **setup.exe**.
- 10 Proceed with the driver installation. You should now be able to select 'USB001'.



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***Installing  
Accessories***

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**9**

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# Introduction

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## Note

**Use of accessories not manufactured or supported by KONICA MINOLTA will void your warranty.**

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This chapter provides information about the following accessory.

<b>Dual In-Line Memory Modules (DIMMs)</b>	128 MB DIMM (unbuffered)
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## Note

**Installing accessories always requires that the printer and accessories are turned off and unplugged during installation.**

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# Antistatic Protection

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## Note

If an antistatic wrist strap is provided in your printer option kit, attach one end of it to your wrist and the other end to any convenient electrical ground (for example, the bare metal chassis of equipment, as on the back of a computer, that is plugged in but turned off). Never attach the wrist strap to any piece of equipment with an electrical current present. Turn off all power switches first. Plastic, rubber, wood, painted metal surfaces, and telephones are not acceptable grounding points. The printer is not an acceptable grounding point either because it must be unplugged before you perform this task.

If you do not have an antistatic wrist strap, discharge your body's static electric charge by touching a grounded surface before you handle any printer boards or components and before removing the controller board. Also avoid walking around after grounding yourself.

---

# Dual In-Line Memory Module (DIMM)



You may need additional memory for complex graphics, and for duplex printing.

Dual in-line memory modules (or DIMMs) are compact circuit boards with surface-mount memory chips.

Your printer comes with 32 MB SDRAM printer memory on board. However, you can upgrade to a maximum of 160 MB of RAM through the installation of an additional DIMM. Additional memory must be 128 MB DIMM. Your printer comes with one available DIMM slot.

## Installing a DIMM

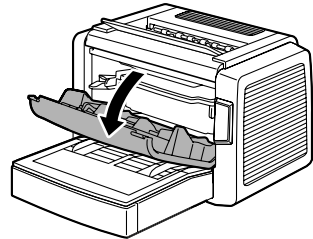
### Note

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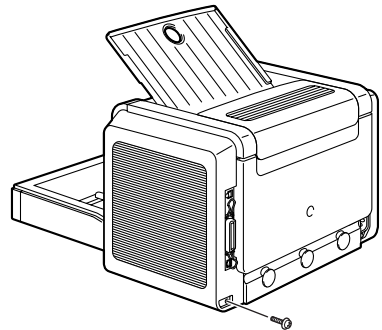
**It is very important to protect the printer controller board and any associated circuit boards from electrostatic damage. Before performing this procedure, review the antistatic caution on page 74. In addition, always handle circuit boards by the edges only.**

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- 1 Turn the printer off and disconnect the power cord and the interface cables (if attached) from the printer.
- 2 Open the front cover.

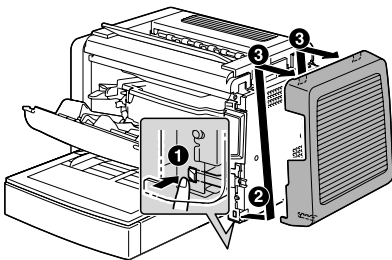


- 3 Remove the screw on the back of the right cover.



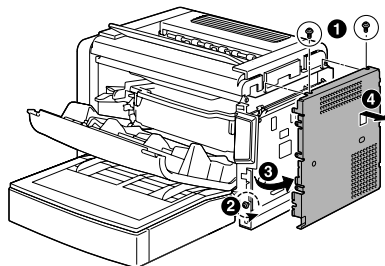
- 4** Unhook the tab on the inside of the right cover by inserting your finger from the bottom of the printer, then pressing on the tab backward.

*Remove the right cover by lifting it up and out.*



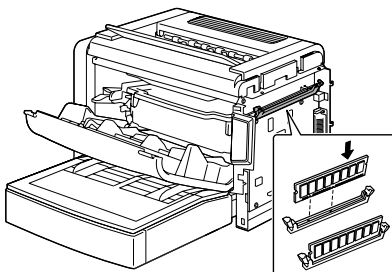
- 5** Remove the two screws at the top of the inner metal panel, and then loosen the screw at the front tab.

*Remove the left side of this panel out, and then slide the panel up to remove it.*



- 6** Insert the new DIMM straight into the DIMM connector until the latches snap into the locked position.

*Move the left side of this panel out, and then slide the panel up to remove it.*



- 7** Reattach the inner metal panel.  
**8** Reattach the right cover.  
**9** Close the front cover.  
**10** Select the total amount of RAM in the driver (Device Options Setting -> Total Memory)  
**11** Print a configuration page (Refer to "Printing a Test Page" on page 3) and verify that the amount of RAM installed in your printer is listed.

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*Appendix*

**A**

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# Safety Specifications

Printer		
Safety standards	U.S. model	UL 60950, CSA C22.2 No. 60950
	European model	EU Directive 73/23/EEC EU Directive 93/68/EEC EN 60950 (IEC 60950)
	China model	GB 4943
EMC standards	U.S. model	FCC part 15 subpart B class B ICES-003
	European model	EU Directive 89/336/EEC EN 55022 (CISPR Pub. 22) class B EN 61000-3-2 EN 61000-3-3
	China model	GB 9254 class B, GB 17625.1
	Australian model	AS/NZS 3548 class B



# Technical Specifications

## Printer

Type	Desktop laser beam printer
Print system	Electrostatic dry powder imaging system
Exposure system	Laser diode + polygon mirror scanning
Developing system	Electrophotographic printing system
Resolution	1200dpi × 1200dpi (at half speed), 600dpi × 600dpi or 1200dpi × 600dpi
Print speed	<u>600dpi × 600dpi</u> or <u>1200dpi × 600dpi</u> 20 pages per minute for A4 21 pages per minute for letter <u>1200dpi × 1200dpi</u> 10 pages per minute for A4 or letter
First print	<u>1200dpi × 600 dpi</u> Within 13 seconds (A4/Letter) <u>1200dpi × 1200 dpi</u> Within 22 seconds (A4/Letter)
Warm-up time	21 seconds or less at startup

Media sizes	<ul style="list-style-type: none"> <li>• Paper—Letter, Legal, Executive, G Letter, Statement, Folio, Letter Plus, UK Quarto, Foolscap, G Legal, 16K, A4, A5, B5 JIS, Chinese 16K, Chinese 32K, custom paper sizes</li> <li>• Envelopes—#10, Monarch, DL, C5, C6, B5 (ISO), Choukei-3Gou and Choukei-4Gou</li> <li>• Postcard, Double Postcard</li> </ul>
Paper/Media	<ul style="list-style-type: none"> <li>• Plain paper (60 to 90g/m<sup>2</sup>; 16 to 24 lb.)</li> <li>• Recycled paper (60 to 90g/m<sup>2</sup>; 16 to 24 lb.)</li> <li>• Transparencies</li> <li>• Envelopes</li> <li>• Thick paper (90 to 163g/m<sup>2</sup>; 24 to 43 lb.)</li> <li>• Postcard</li> <li>• Letterhead</li> <li>• Label sheet</li> </ul>
Paper feeding	<ul style="list-style-type: none"> <li>• Tray 1</li> <li>• Manual feed tray</li> </ul>
Input capacity	<ul style="list-style-type: none"> <li>• Tray 1: 250 sheets</li> <li>• Manual feed tray: 1 sheet</li> </ul>
Output capacity	<ul style="list-style-type: none"> <li>• Output tray: 100 sheets</li> </ul>
Operating temperature	10° to 35°C (50° to 95°F)
Operating humidity	15 to 85%
Power supply	220-240 V, 50-60 Hz
Power consumption	220-240 V: 900 W
Amperage	220-240 V: 4.5 A or less
Acoustic Noise	Printing: 54 dB or less Standby: 39 dB or less
External dimensions (with Tray1 and the output tray closed)	Height: 283 mm (11.1 in.) Width: 387 mm (15.2 in.) Depth: 455 mm (17.9 in.)
Weight	Printer: approximately 7kg (15.4 lb.) Drum cartridge: approximately 0.3kg (0.7 lb.) Toner cartridge: approximately 0.5kg (1.1 lb.)
Interface	IEEE 1284 compliant type B (Compatible/Nibble/ECP) USB 2.0 (High speed) compliant 10Base-T/100Base-TX Ethernet Interface port
CPU	D8701 (200 MHz)
Standard memory	32 MB

# Consumables Life Expectancies Chart

Item	Average Life Expectancy (in Simplex Pages)
<p><b>Toner Cartridge</b></p>	<p><b>Starter Cartridge</b> : Average Cartridge Yield 1,500 standard pages  <b>Replacement Cartridge</b> (Standard Capacity): Average Cartridge Yield 3,000 standard pages.  <b>Replacement Cartridge</b> (High Capacity): Average Cartridge Yield 6,000 standard pages.</p> <p>Declared yield value in accordance with ISO/IEC 19752</p> <p> <i>The toner cartridge life will be shorter when using intermittent printing.</i></p>
<p><b>Drum cartridge</b></p>	<p>20,000 continuous printing</p> <p> <i>The drum cartridge life will be shorter when using intermittent printing.</i></p>







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