



> PRINT

ECOSYS P2135dn

OPERATION GUIDE



This Operation Guide is for model ECOSYS P2135dn.



Note This Operation Guide contains information that corresponds to using both the inch and metric versions of these machines.

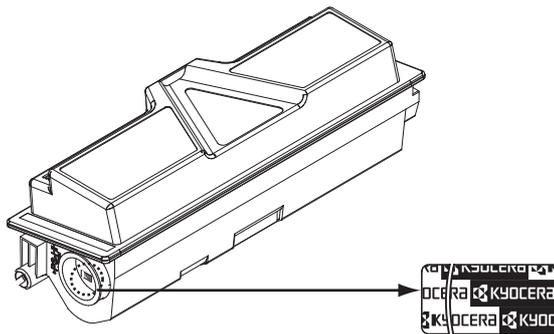
The inch versions of these machines are shown in the screens in this guide. If you are using the metric version, use the messages provided for the inch version as reference only. In the body text, only the inch messages are given if these versions differ only in capitalization. When there is even a slight difference in the message, we have listed the information for the inch version followed, in brackets, by the corresponding information for the metric version.

This Operation Guide is intended to help you operate the machine correctly, perform routine maintenance and take a simple troubleshooting action as necessary, so that you can always use the machine in good condition.

Please read this Operation Guide before you start using the machine, and keep it close to the machine for easy reference.

We recommend the use of our own brand supplies. We will not be liable for any damage caused by the use of third party supplies in this machine.

A label shown in the illustration assures that the supplies are our own brand.



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Legal and Safety Information

Please read this information before using your machine. This chapter provides information on the following topics:

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Legal Information



CAUTION NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL. The emulation mode can be changed.

Notice

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Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Safety Information

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser Notice

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



DANGER CLASS 3B INVISIBLE LASER RADIATION
WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.



CAUTION Use of controls or adjustments or performance
of procedures other than those specified herein may result
in hazardous radiation exposure.

Radio Frequency Transmitter

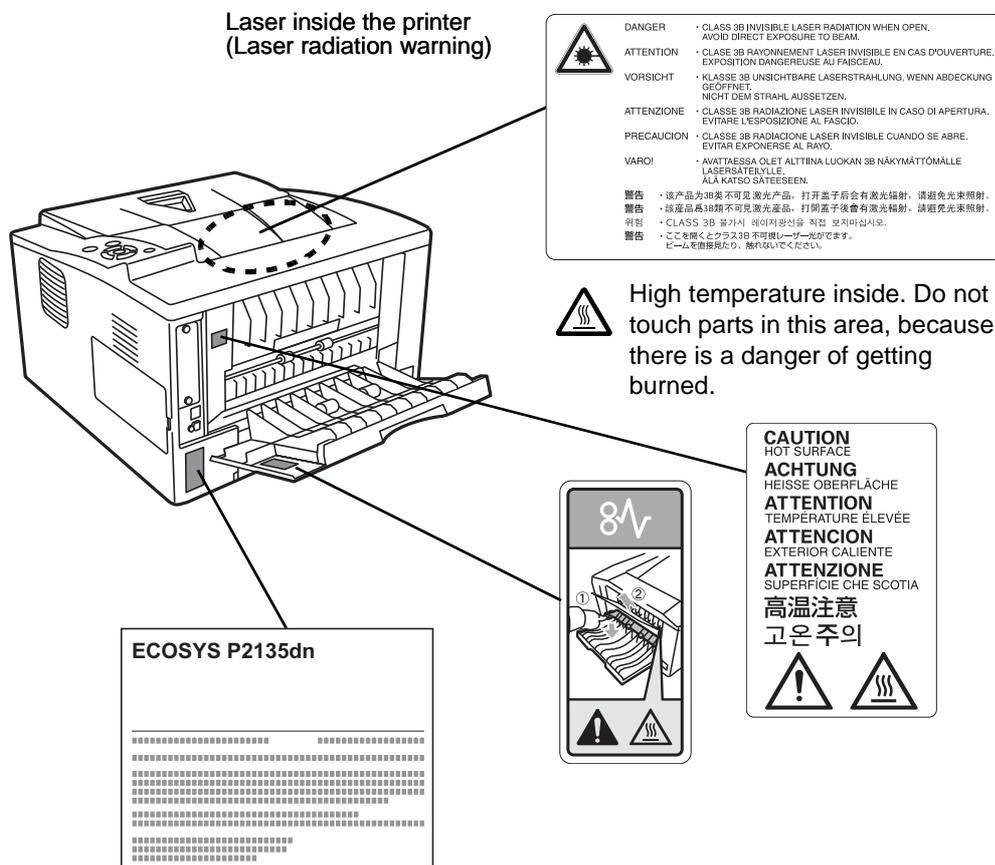
This machine contains a transmitter module. We, the manufacturer (KYOCERA Document Solutions) hereby declare that this equipment (page printer), model ECOSYS P2135dn is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Radio Tag Technology

In some countries, the radio tag technology used in this equipment to identify the toner container may be subject to authorization, and the use of this equipment may consequently be restricted.

Caution Labels

The printer bears any of the following labels.



CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Ozone Concentration

These printers generate ozone gas (O₃), which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EN ISO 7779

Maschinenlärminformations-Verordnung 3. GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

EK1-ITB 2000

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Safety Instructions Regarding the Disconnection of Power

Caution: The power plug is the main isolation device! Other switches on the equipment are only functional switches and are not suitable for isolating the equipment from the power source.

VORSICHT: Der Netzstecker ist die Hauptisoliervorrichtung! Die anderen Schalter auf dem Gerät sind nur Funktionsschalter und können nicht verwendet werden, um den Stromfluß im Gerät zu unterbrechen.

Energy Saving Control Function

The device comes equipped with a Low Power Mode where energy consumption is reduced after a certain amount of time elapses since the device was last used, as well as a Sleep where printer functions remain in a waiting state but power consumption is still reduced to a minimum when there is no activity with the device within a set amount of time.

Low Power Mode

The device automatically enters Low Power Mode when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to Low Power Timer (Low Power Mode timer timeout time) section of the Advanced Operation Guide.

Sleep

For Europe

The device automatically enters Sleep when 15 minutes have passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide.

Except for Europe

The device automatically enters Sleep when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to Sleep Timer (Sleep timer timeout setting) section of the Advanced Operation Guide.

Automatic 2-Sided Print Function

This device includes 2-sided printing as a standard function. For example, by printing two 1-sided originals onto a single sheet of paper as a 2-sided print, it is possible to lower the amount of paper used. For more information refer to Duplex (Duplex Printing) section of the Advanced Operation Guide.

Printing in duplex mode reduces paper consumption and contributes to the conservation of forest resources. Duplex mode also reduces the amount of paper that must be purchased, and thereby reduces cost. It is recommended that machines capable of duplex printing be set to use duplex mode by default.

Resource Saving - Paper

For the preservation and sustainable use of forest resources, it is recommended that recycled as well as virgin paper certified under environmental stewardship initiatives or carrying recognised ecolabels, which meet EN 12281:2002*1 or an equivalent quality standard, be used.

This machine also supports printing on 64 g/m² paper. Using such paper containing less raw materials can lead to further saving of forest resources.

*1: EN12281:2002 "Printing and business paper - Requirements for copy paper for dry toner imaging processes"

Your sales or service representative can provide information about recommended paper types.

Environmental benefits of "Power Management"

To reduce power consumption when idle, this machine is equipped with a power management function that automatically activates energy-saving mode when the machine is idle for a certain period of time.

Although it takes the machine a slight amount of time to return to READY mode when in energy-saving mode, a significant reduction in energy consumption is possible. It is recommended that the machine be used with the activation time for energy-saving mode set to the default setting.

Energy Star (ENERGY STAR®) Program



We have determined as a participating company in the International Energy Star Program that this product is compliant with the standards laid out in the International Energy Star Program.

ENERGY STAR® is a voluntary energy efficiency program with the goal of developing and promoting the use of products with high energy efficiency in order to help prevent global warming. By purchasing ENERGY STAR® qualified products, customers can help reduce emissions of greenhouse gases during product use and cut energy-related costs.

Symbols

The sections of this guide and parts of the machine marked with symbols are safety warnings meant to protect the user, other individuals and surrounding objects, and ensure correct and safe usage of the machine. The symbols and their meanings are indicated below.



DANGER: Indicates that serious injury or even death will very possibly result from insufficient attention to or incorrect compliance with the related points.



WARNING: Indicates that serious injury or even death may result from insufficient attention to or incorrect compliance with the related points.



CAUTION: Indicates that personal injury or mechanical damage may result from insufficient attention to or incorrect compliance with the related points.

The following symbols indicate that the related section includes safety warnings. Specific points of attention are indicated inside the symbol.



.... [General warning]



.... [Warning of danger of electrical shock]



.... [Warning of high temperature]

The following symbols indicate that the related section includes information on prohibited actions. Specifics of the prohibited action are indicated inside the symbol.



.... [Warning of prohibited action]



.... [Disassembly prohibited]

The following symbols indicate that the related section includes information on actions which must be performed. Specifics of the required action are indicated inside the symbol.



.... [Alert of required action]



.... [Remove the power plug from the outlet]



.... [Always connect the machine to an outlet with a ground connection]

Please contact your service representative to order a replacement if the safety warnings in this Operation Guide are illegible or if the guide itself is missing. (fee required)

Installation Precautions

Environment

Caution

Avoid placing the machine on or in locations which are unstable or not level. Such locations may cause the machine to fall down or fall over. This type of situation presents a danger of personal injury or damage to the machine.



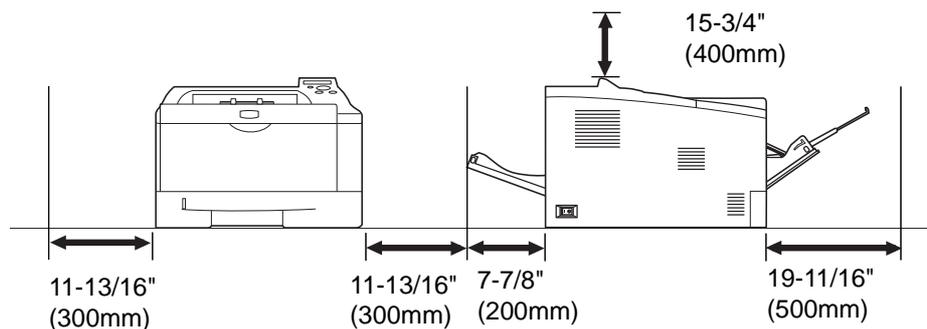
Avoid locations with humidity or dust and dirt. If dust or dirt become attached to the power plug, clean the plug to avoid the danger of fire or electrical shock.



Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire.



To keep the machine cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the rear cover, to allow air to be properly ventilated out of the printer.



Other Precautions

Adverse environmental conditions may affect the safe operation and performance of the machine. Install in an air-conditioned room (recommended room temperature: around 23°C (73.4°F), humidity: around 60 % RH), and avoid the following locations when selecting a site for the machine.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.

Power Supply/Grounding the Machine

Warning

Do not use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock.



Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock.



Always connect the machine to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative.



Other precautions

Connect the power plug to the closest outlet possible to the machine.

The power supply cord is used as the main disconnect device. Ensure that the socket/outlet is located/installed near the equipment and is easily accessible.

Handling of plastic bags

Warning

Keep the plastic bags that are used with the machine away from children. The plastic may cling to their nose and mouth causing suffocation.



Precautions for Use

Cautions when using the machine

Warning

Do not place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the machine. This situation presents a danger of fire or electrical shock should they fall inside.



Do not remove any of the covers from the machine as there is a danger of electrical shock from high voltage parts inside the machine.



Do not damage, break or attempt to repair the power cord. Do not place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage. These types of situations present a danger of fire or electrical shock.



Never attempt to repair or disassemble the machine or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness.



If the machine becomes excessively hot, smoke appears from the machine, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the main power switch off (O) immediately, be absolutely certain to remove the power plug from the outlet and then contact your service representative.



If anything harmful (paper clips, water, other fluids, etc.) falls into the machine, turn the main power switch off (O) immediately. Next, be absolutely certain to remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative.



Do not remove or connect the power plug with wet hands, as there is a danger of electrical shock.



Always contact your service representative for maintenance or repair of internal parts.



Caution

Do not pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (Always grasp the power plug when removing the power cord from the outlet.)



Always remove the power plug from the outlet when moving the machine. If the power cord is damaged, there is a danger of fire or electrical shock.



If the machine will not be used for a short period of time (overnight, etc.), turn the power switch off (O). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the machine is not in use.



Always hold the designated parts only when lifting or moving the machine.



For safety purposes, always remove the power plug from the outlet when performing cleaning operations.



If dust accumulates within the machine, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the machine.



Other precautions

Do not place heavy objects on the machine or cause other damage to the machine.

Do not open the upper front cover, turn off the main power switch, or pull out the power plug during printing.

When lifting or moving the machine, contact your service representative.

Do not touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.

Do not attempt to perform any operations not explained in this handbook.

Use shielded interface cables.



Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions when Handling Consumables



Caution

Do not attempt to incinerate parts which contain toner. Dangerous sparks may cause burns.



Keep parts which contain toner out of the reach of children.



If toner happens to spill from parts which contain toner, avoid inhalation and ingestion, as well as contact with your eyes and skin.



- If you do happen to inhale toner, move to a place with fresh air and gargle thoroughly with a large amount of water. If coughing develops, contact a physician.
- If you do happen to ingest toner, rinse your mouth out with water and drink 1 or 2 cups of water to dilute the contents of your stomach. If necessary, contact a physician.
- If you do happen to get toner in your eyes, flush them thoroughly with water. If there is any remaining tenderness, contact a physician.
- If toner does happen to get on your skin, wash with soap and water.

Do not attempt to force open or destroy parts which contain toner.



Other precautions

After use, always dispose of the Toner Container in accordance with Federal, State and Local rules and regulations.

Store all consumables in a cool, dark location.

If the machine will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.

About the Operation Guide

This Operation Guide contains the following chapters:

1 Machine Parts

This chapter explains the names of parts.

2 Loading Paper

This chapter explains paper specifications for this printer and how to load paper into the cassette or MP tray.

3 Printing

This chapter explains how to install the printer driver, print from your PC, and use the application software included in the DVD-ROM.

4 Maintenance

This chapter explains how to replace the toner container and how to care for your printer.

5 Troubleshooting

This chapter explains how to handle printer problems that may occur, such as paper jams.

6 Specifications

This chapter lists the specifications of this printer.

Conventions in This Guide

This manual uses the following conventions.

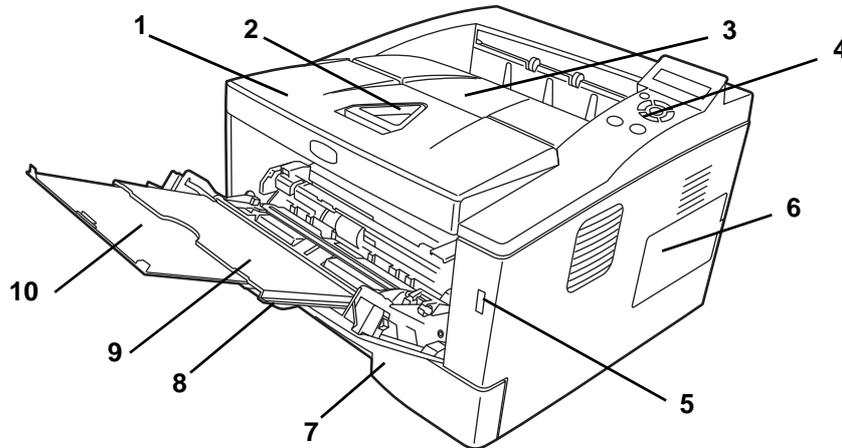
Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	Refer to <i>Print Quality Problems</i> on page 5-3.
Bold	Used to denote buttons on the software.	To start printing, click OK .
Bracket Bold	Used to denote operation panel keys.	Press [GO] to resume printing.
Note	Used to provide additional or useful information about a function or feature.	 Note Do not remove the toner container from the carton until you are ready to install it in the printer.
Important	Used to provide important information.	IMPORTANT Take care not to touch the transfer roller (black) during cleaning.
Caution	Cautions are statements that suggest mechanical damage as a result of an action.	CAUTION When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.
Warning	Used to alert users to the possibility of personal injury.	WARNING If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

1 Machine Parts

This chapter identifies machine parts and operation panel keys.

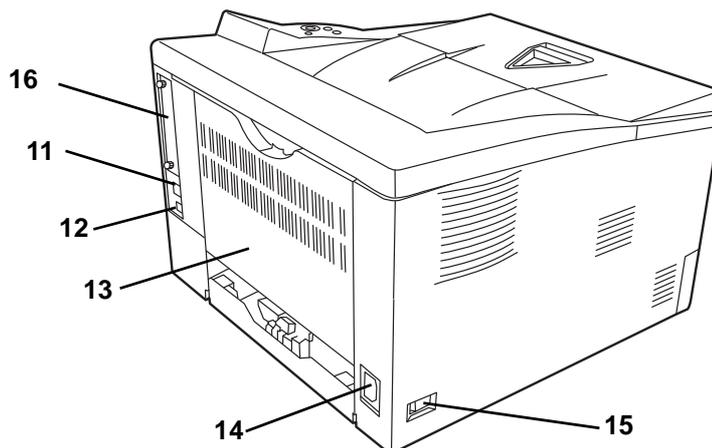
Components at the Front of the Printer	1-2
Components at the Rear of the Printer	1-2
Operation Panel	1-3

Components at the Front of the Printer



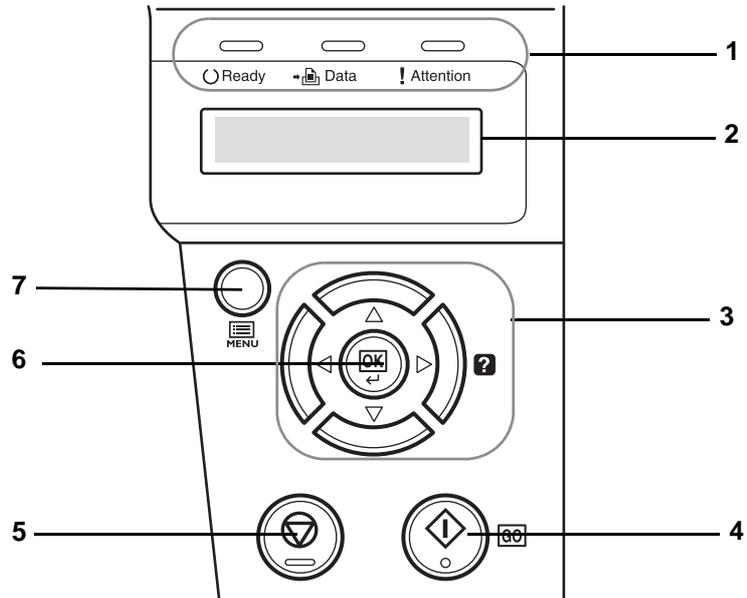
- 1 Top Cover
- 2 Paper Stopper
- 3 Top Tray
- 4 Operation Panel
- 5 USB Memory Slot
- 6 Right Cover
- 7 Paper Cassette
- 8 Front Cover
- 9 MP Tray
- 10 Subtray

Components at the Rear of the Printer



- 11 Network Interface Connector
- 12 USB Interface Connector
- 13 Rear Cover
- 14 Power Cord Connector
- 15 Power Switch
- 16 Optional Interface Slot Cover

Operation Panel



- 1 Indicators
- 2 Message Display
- 3 Cursor Keys
- 4 [GO] Key
- 5 [Cancel] Key
- 6 [OK] Key
- 7 [MENU] Key

2 Paper Handling

This chapter explains paper specifications for this printer.

General Guidelines	2-2
Selecting the Right Paper	2-4
Paper Type	2-11

General Guidelines

The machine is designed to print on standard copier paper, but it can also accept a variety of other types of paper within the limits specified below.



Note The manufacturer assumes no liability for problems that occur when paper not satisfying these requirements is used.

Selection of the right paper is important. Using the wrong paper can result in paper jams, curling, poor print quality, and paper waste, and in extreme cases can damage the machine. The guidelines given below will increase the productivity of your office by ensuring efficient, trouble-free printing and reducing wear and tear on the machine.

Paper Availability

Most types of paper are compatible with a variety of machines. Paper intended for xerographic copiers can also be used with the machine.

There are three general grades of paper: economy, standard, and premium. The most significant difference between grades is the ease with which they pass through the machine. This is affected by the smoothness, size, and moisture content of the paper, and the way in which the paper is cut. The higher the grade of paper you use, the less risk there will be of paper jams and other problems, and the higher the level of quality your printed output will reflect.

Differences between paper from different suppliers can also affect the machine's performance. A high-quality printer cannot produce high-quality results when the wrong paper is used. Low-priced paper is not economical in the long run if it causes printing problems.

Paper in each grade is available in a range of basis weights (defined later). The traditional standard weights are 60 to 120 g/m² (16 to 31.9b).

Paper Specifications

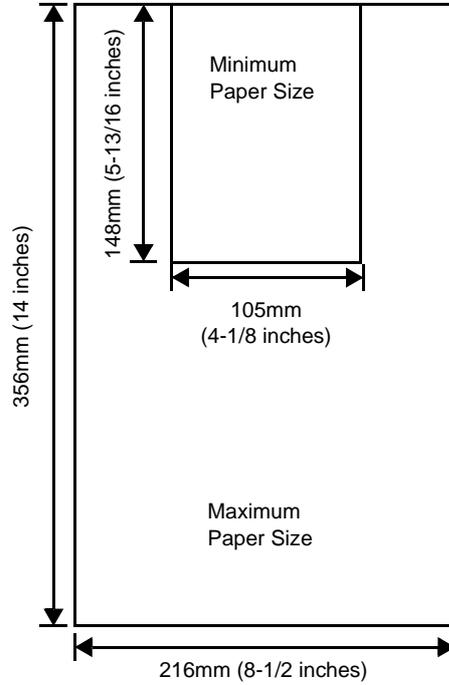
The following table summarizes the basic paper specifications. Details are given on the following pages:

Item	Specifications
Weight	Cassette: 60 to 120 g/m ² (16 to 31.9 lb/ream) MP tray: 60 to 220 g/m ² (16 to 58.5 lb/ream)
Thickness	0.086 to 0.110mm (3.4 to 4.3 mils)
Dimensional Accuracy	±0.7 mm (±0.0276 inches)
Squareness of Corners	90±0.2°
Moisture Content	4 to 6%
Direction of Grain	Long grain
Pulp Content	80% or more

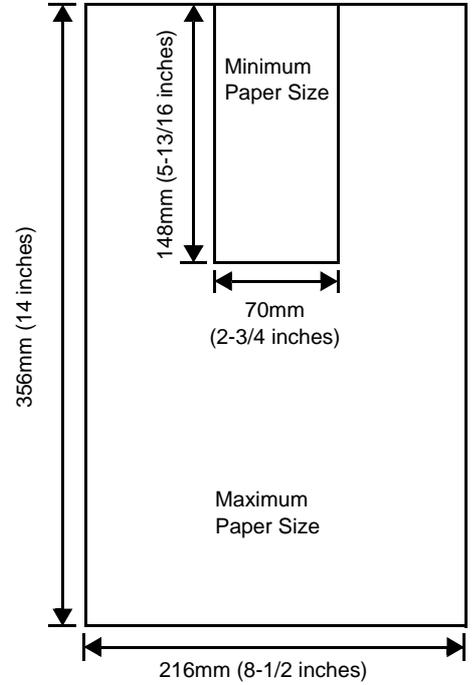
Minimum and Maximum Paper Sizes

The minimum and maximum paper sizes are as follows. For the paper smaller than JIS B6, postcards, and envelopes, the MP tray must be used.

Paper cassette



MP tray



Note The minimum paper size of the optional paper feeder (PF-100) is 148 x 210 mm (5-13/16 x 8-5/16 inches).

Selecting the Right Paper

This section describes the guidelines for selecting paper.

Condition

Avoid using paper that is bent at the edges, curled, dirty, torn, embossed, or contaminated with lint, clay, or paper shreds.

Use of paper in these conditions can lead to illegible printing and paper jams, and can shorten the life of the machine. In particular, avoid using paper with a surface coating or other surface treatment. Paper should have as smooth and even a surface as possible.

Composition

Do not use paper that has been surface-treated and contains plastic or carbon. The heat of fusing can cause such paper to give off harmful fumes.

Bond paper should contain at least 80% pulp. Not more than 20% of the total paper content should consist of cotton or other fibers.

Paper Sizes

Cassettes and the MP Tray are available for the paper sizes shown below. The dimensional tolerances are $\pm 0.7\text{mm}$ for the length and width. The angle at the corners must be $90^\circ \pm 0.2^\circ$.

MP Tray Only	Size	Cassette or MP Tray	Size
Env. Monarch	3-7/8 x 7-1/2 inches	Legal	8-1/2 x 14 inches
Envelope #10	4-1/8 x 9-1/2 inches	Letter	8-1/2 x 11 inches
Envelope #9	3-7/8 x 8-7/8 inches	ISO A4	210 x 297 mm
Envelope #6	3-5/8 x 6-1/2 inches	ISO A5	148 x 210 mm
Envelope DL	110 x 220 mm	ISO A6	105 x 148 mm
JIS B6	128 x 182 mm	Envelope C5	162 x 229 mm
Hagaki	100 x 148 mm	ISO B5	176 x 250 mm
OufukuHagaki	148 x 200 mm	JIS B5	182 x 257 mm
Youkei 2	114 x 162 mm	Statement	5-1/2 x 8-1/2 inches
Youkei 4	105 x 235 mm	Executive	7-1/4 x 10-1/2 inches
		Oficio II	8-1/2 x 13 inches
		Folio	210 x 330 mm
		16 kai	197 x 273 mm
		216 x 340 mm	216 x 340 mm
Custom	Cassette: 105 to 216 mm x 148 to 356 mm (4-1/8 to 8-1/2 inches x 5-13/16 to 14 inches) MP Tray: 70 to 216 mm x 148 to 356 mm (2-3/4 to 8-1/2 inches x 5-13/16 to 14 inches)		

Smoothness

The paper should have a smooth, uncoated surface. Paper with a rough or sandy surface can cause blank spaces in the printed output. Paper that is too smooth can cause multiple feeding and fogging problems. (Fogging is a gray background effect.)

Basis Weight

Basis weight is the weight of paper expressed in grams per square meter (g/m²). Paper that is too heavy or too light may cause feed errors or paper jams as well as premature wear of the product. Uneven weight of paper, namely uneven paper thickness may cause multiple-sheet feeding or print quality problems such as blurring because of poor toner fusing.

Paper Weight Equivalence Table

The paper weight is listed in pounds (lb) and metric grams per square meter (g/m²). The shaded part indicates the standard weight.

U. S. Bond Weight (lb)	Europe Metric Weight (g/m ²)
16	60
17	64
20	75
21	80
22	81
24	90
27	100
28	105
32	120
34	128
36	135
39	148
42	157
43	163
47	176
53	199

Thickness

The paper used with the machine should be neither extremely thick nor extremely thin. If you are having problems with paper jams, multiple feeds, and faint printing, the paper you are using may be too thin. If you are having problems with paper jams and blurred printing the paper may be too thick.

Moisture Content

Moisture content is defined as the percent ratio of moisture to the dry mass of the paper. Moisture can affect the paper's appearance, feed ability, curl, electrostatic properties, and toner fusing characteristics.

The moisture content of the paper varies with the relative humidity in the room. When the relative humidity is high and the paper absorbs moisture, the paper edges expand, becoming wavy in appearance. When the relative humidity is low and the paper loses moisture, the edges shrink and tighten, and print contrast may suffer.

Wavy or tight edges can cause jams and alignment anomalies. The moisture content of the paper should be 4 to 6%.

To ensure correct moisture content, it is important to store the paper in a controlled environment. Some tips on moisture control are:

- Store paper in a cool, dry location.
- Keep the paper in its wrapping as long as possible. Re-wrap paper that is not in use.
- Store paper in its original carton. Place a pallet etc. under the carton to separate it from the floor.
- After removing paper from storage, let it stand in the same room as the machine for 48 hours before use.
- Avoid leaving paper where it is exposed to heat, sunlight, or damp.

Paper Grain

When paper is manufactured, it is cut into sheets with the grain running parallel to the length (long grain) or parallel to the width (short grain). Short grain paper can cause feeding problems in the machine. All paper used in the machine should be long grain.

Other Paper Properties

Porosity: Indicates the density of paper fiber.

Stiffness: Limp paper may buckle in the machine, resulting in paper jams.

Curl: Most paper naturally tends to curl one way if left unpacked. When paper passes through the fixing unit, it curls upward a little. To produce flat printouts, load the paper so that the upward pressure from the machine can correct their curling.

Electrostatic discharge: During the printing process the paper is electrostatically charged to attract the toner. The paper must be able to release this charge so that printed sheets do not cling together in the Output Tray.

Whiteness: The contrast of the printed page depends on the whiteness of the paper. Whiter paper provides a sharper, brighter appearance.

Quality control: Uneven sheet size, corners that are not square, ragged edges, welded (uncut) sheets, and crushed edges and corners can cause the machine to malfunction in various ways. A quality paper supplier should take considerable care to ensure that these problems do not occur.

Packaging: Paper should be packed in a sturdy carton to protect it from damage during transport. Quality paper obtained from a reputable supplier is usually correctly packaged.

Special Paper

The following types of special paper can be used:

Paper type to be used	Paper type to be selected
Thin paper (60 to 64 g/m ²)	Vellum
Thick paper (90 to 220 g/m ²)	Thick
Colored paper	Color
Recycled paper	Recycled
Overhead projector transparencies	Transparency
Cardstock	Cardstock
Envelopes	Envelope
Label	Labels

Use paper that is sold specifically for use with copiers or printers (heat-fusing type). When using transparencies, labels, envelopes, cardstock, or thick paper, feed the paper from the MP Tray.

Since the composition and quality of special paper vary considerably, special paper is more likely than white bond paper to give trouble during printing. No liability will be assumed if moisture and so forth given off during printing on special paper causes harm to the machine or operator.



Note Before purchasing any type of special paper, test a sample on the machine and check that printing quality is satisfactory.

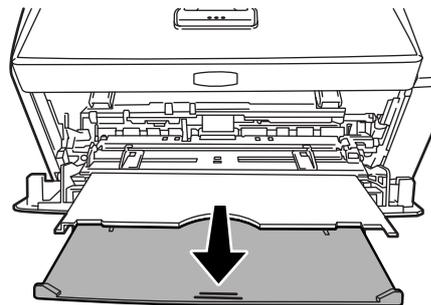
Half speed mode is automatically engaged depending on **Media types**, including **Labels**, **Rough**, and **Thick**.

Transparency

This printer is available for monochrome printing on transparencies. Transparencies must be fed to the MP Tray. One transparency can be loaded at a time.

Transparencies must be able to withstand the heat of fusing during the printing process.

Transparencies must be placed on the MP tray with the long edge towards the printer.



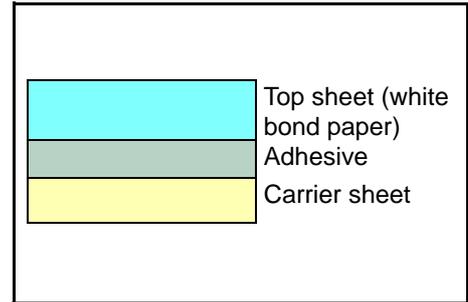
When unloading transparencies (e.g., for clearing jams), hold them carefully by the edges to avoid leaving fingerprints on them.

Labels

Labels must be fed to the MP tray. One label can be loaded at a time.

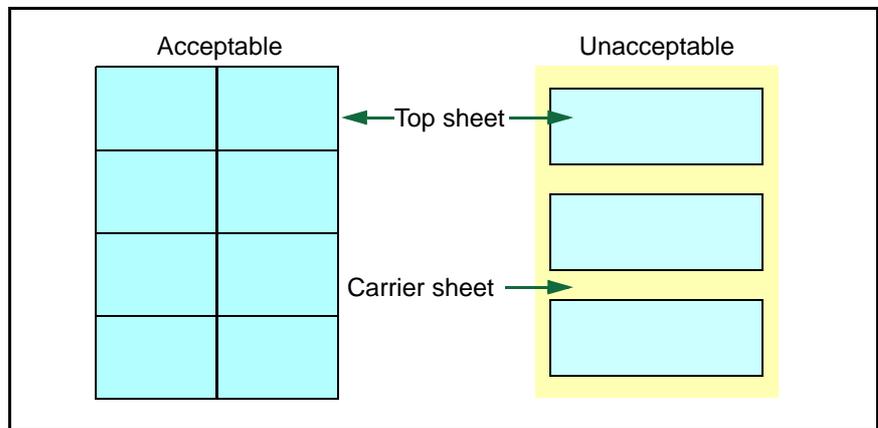
The basic rule for printing on adhesive labels is that the adhesive must never come into contact with any part of the machine. Adhesive paper sticking to the drum or rollers will damage the machine.

Label paper has a structure comprising of three layers, as shown in the diagram. The top sheet is printed on. The adhesive layer consists of pressure-sensitive adhesives. The carrier sheet (also called the linear or backing sheet) holds the labels until used. Due to the complexity of its composition, adhesive-backed label paper is particularly likely to give printing problems.



Adhesive label paper must be entirely covered by its top sheet, with no spaces between the individual labels. Labels with spaces in between are liable to peel off, causing serious paper jam problems.

Some label paper is manufactured with an extra margin of top sheet around the edge. Do not remove the extra top sheet from the carrier sheet until after printing is finished.

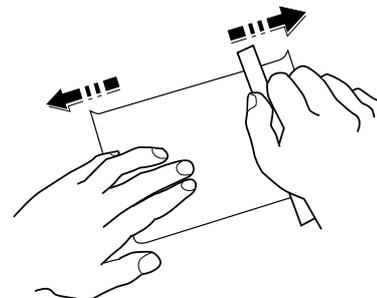


The table below lists the specifications for adhesive label paper.

Item	Specification
Weight of top sheet	44 to 74 g/m ² (12 to 20 lb/ream)
Composite weight	104 to 151 g/m ² (28 to 40 lb/ream)
Thickness of top sheet	0.086 to 0.107 mm (3.9 to 4.2 mils)
Composite thickness	0.115 to 0.145 mm (4.5 to 5.7 mils)
Moisture content	4 to 6 % (composite)

Postcards

Up to 10 postcards can be loaded at a time. Fan the stack of postcards and align the edges before loading them in the MP tray. Make sure the postcards you are going to set are not curled. Feeding curled postcards may cause paper jams.



Some postcards have rough edges on the back (those are created when the paper is cut). In this case, put the postcards on a flat place and rub the edges with, for example, a ruler to smooth them.

Envelopes

Up to 5 envelopes can be loaded at a time. Envelopes should be fed in the face-up position, right edge first.

Since the composition of an envelope is more complex than that of ordinary paper, it is not always possible to ensure consistent printing quality over the entire envelope surface.

Normally, envelopes have a diagonal grain direction. Refer to *Paper Grain* on page 2-6. This direction can easily cause wrinkles and creases when envelopes pass through the printer. Before purchasing envelopes, make a test print to check whether the printer accepts the envelope.

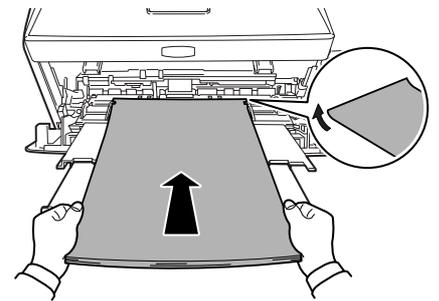
- Do not use envelopes that have an encapsulated liquid adhesive.
- Avoid a long printing session for envelopes only. Extended envelope printing can cause premature printer wear.
- If jams occur, try setting less envelopes on the MP tray.
- To avoid jams caused by curled envelopes, stack no more than 10 printed envelopes on the output tray.

Thick Paper

Fan the stack of paper and align the edges before loading them in the MP tray. Some types of paper have rough edges on the back (those are created when the paper is cut). In this case, put the paper on a flat place and rub the edges once or twice with, for example, a ruler to smooth them. Feeding rough edged paper may cause paper jams.



Note If the paper jams even after you smooth it out, load the paper in the MP tray with the leading edge raised up a few millimeters as shown in the illustration.



Colored Paper

Colored paper should satisfy the same conditions as white bond paper. Refer to *Paper Specifications* on page 2-2. In addition, the pigments used in the paper must be able to withstand the heat of fusing during the printing process (up to 200 °C or 392 °F).

Preprinted Paper

Preprinted paper should satisfy the same conditions as white bond paper. Refer to *Paper Specifications* on page 2-2. The preprinted ink must be able to withstand the heat of fusing during the printing process, and must not be affected by silicone oil.

Do not use paper with any kind of surface treatment, such as the type of paper commonly used for calendars.

Recycled Paper

Select recycled paper that meets the same specifications as the white bond paper except for whiteness. Refer to *Paper Specifications* on page 2-2.



Note Before purchasing recycled paper, test a sample on the machine and check that the printing quality is satisfactory.

Paper Type

The printer is capable of printing under the optimum setting for the type of paper being used.

Setting the paper type for the paper source from the printer's operation panel will cause the printer to automatically select the paper source and print in the mode best suited to that type of paper.

A different paper type setting can be made for each paper source including the MP tray. Not only can preset paper types be selected, but it is also possible for you to define and select customized paper types. Refer to *Type Adjust (Creating custom paper type)* on page 7-24. The following types of paper can be used.

Paper Type	Paper source		
	MP tray	Paper Cassette	Duplex path
Plain	Yes	Yes	Yes
Transparency	Yes	No	No
Preprinted	Yes	Yes	Yes
Labels	Yes	No	No
Bond	Yes	Yes	Yes
Recycled	Yes	Yes	Yes
Vellum	Yes	No	No
Rough	Yes	Yes	Yes
Letterhead	Yes	Yes	No
Color	Yes	Yes	Yes
Prepunched	Yes	Yes	Yes
Envelope	Yes	No	No
Cardstock	Yes	No	No
Thick	Yes	No	No
High quality	Yes	Yes	Yes
Custom 1 (to 8)*	Yes	Yes	Yes

Yes: Can be stored No: Cannot be stored

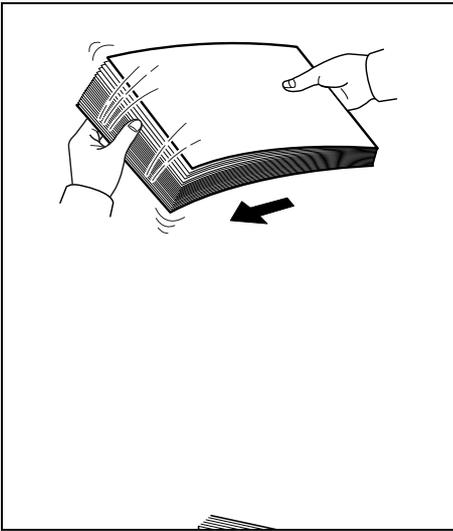
- *. This is a paper type defined and registered by the user. Up to eight types of user settings may be defined. User can also enable or disable the duplex path when using Custom. For more information, refer to *Type Adjust (Creating custom paper type)* on page 7-24.

3 Loading Paper

This chapter explains how to load paper into the cassette or MP tray.

Preparing the Paper	3-2
Loading Paper into Cassette	3-2
Loading Paper into MP (Multi-Purpose) Tray	3-5

Preparing the Paper



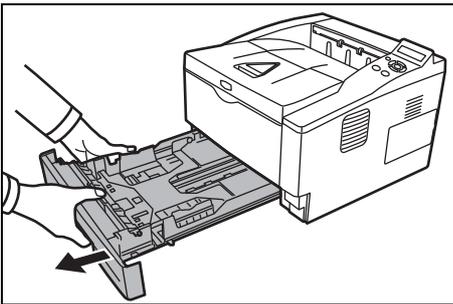
After removing paper from the packaging, fan through the sheets to separate them prior to loading.

If using paper that has been folded or is curled, straighten it prior to loading. Failure to do so may result in a paper jam.

IMPORTANT Ensure paper is not stapled and clips are removed.

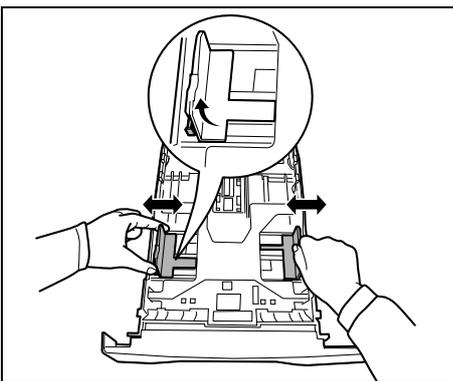
Loading Paper into Cassette

250 sheets of 11 × 8 1/2" or A4 paper (80 g/m²) may be loaded into the Cassette.



- 1 Pull the cassette completely out of the printer.

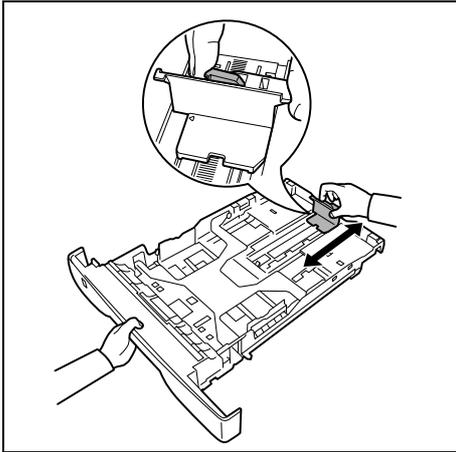
IMPORTANT When pulling the cassette out of the printer, ensure it is supported and does not fall out.



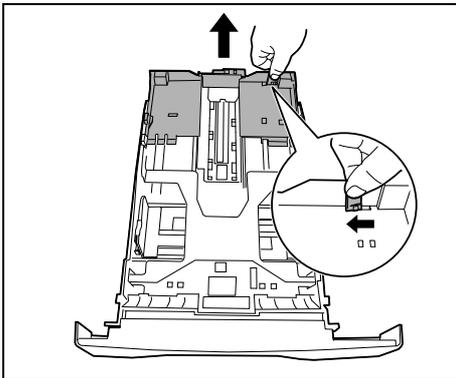
- 2 Adjust the position of the width guides located on the left and right sides of the cassette. Press the release button on the left guide and slide the guides to the paper size required.



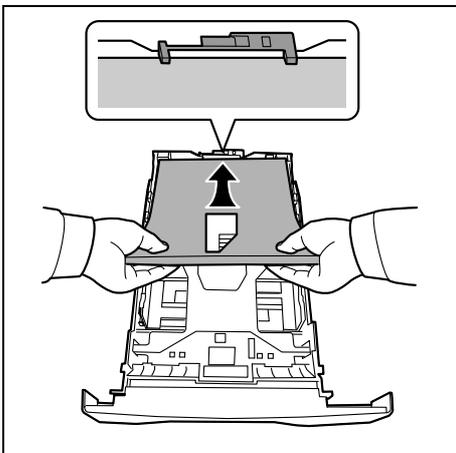
Note Paper sizes are marked on the cassette.



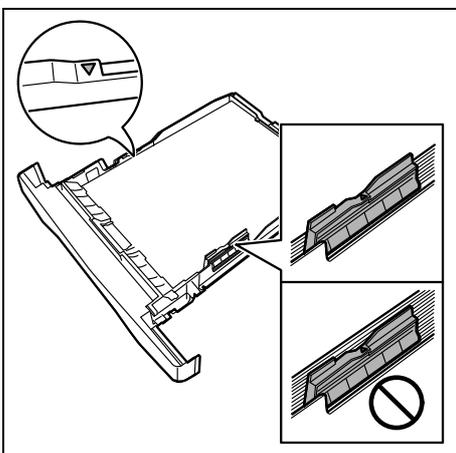
- 3 Adjust the paper length guide to the paper size required.



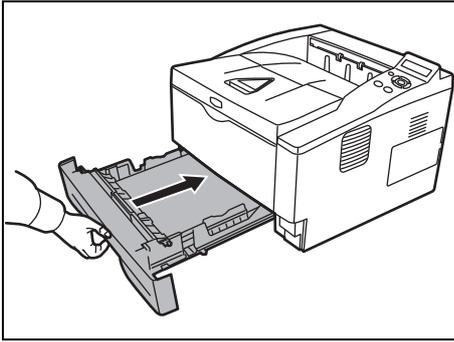
If you are going to use paper that is longer than A4, pull out the extension paper cassette by pushing the release lever one by one and adjust it to the desired paper size.



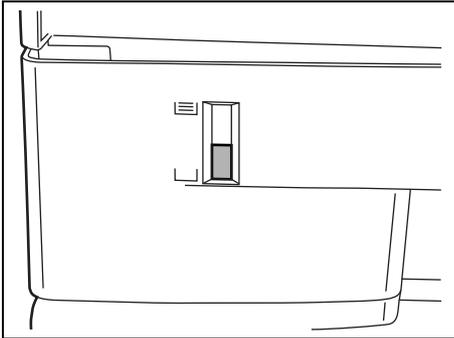
- 4 Load the paper in the cassette. Ensure the side to be printed is facing down and the paper is not folded, curled, or damaged.



 **Note** Do not load paper above the triangle mark located on the width guide.



- 5 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

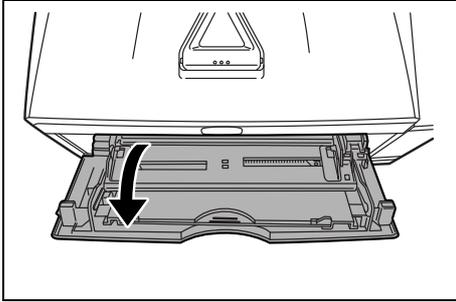


There is a paper gauge on the left side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of (empty).

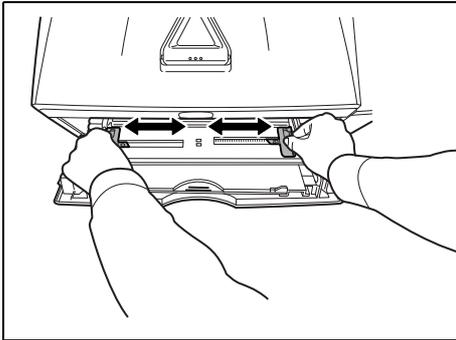
- 6 Specify the paper size and type for the *cassette* using control panel. For more information, refer to *Advanced Operation Guide*.

Loading Paper into MP (Multi-Purpose) Tray

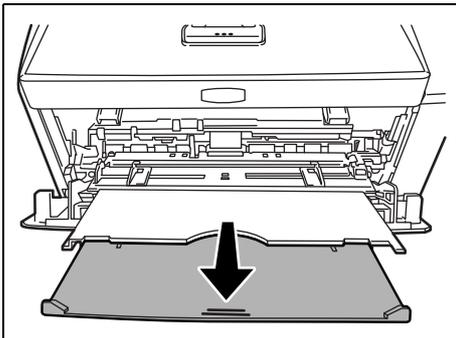
This machine can load up to 50 sheets of 11 x 8 1/2" or A4 paper (80 g/m²) into the MP tray.



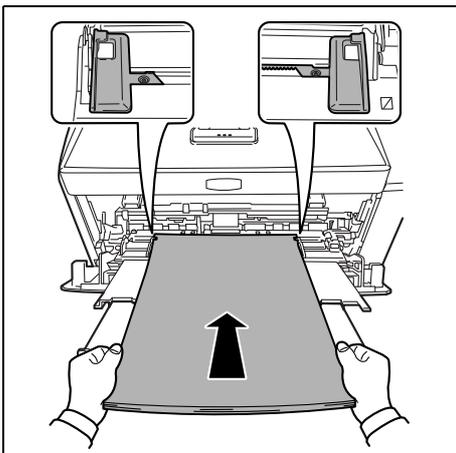
- 1 Pull the MP tray towards you until it stops.



- 2 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the paper guides to the corresponding mark.



- 3 Pull out the subtray.

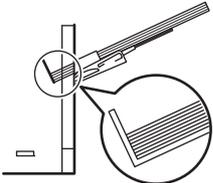
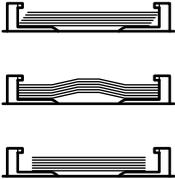
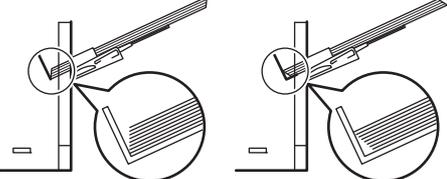


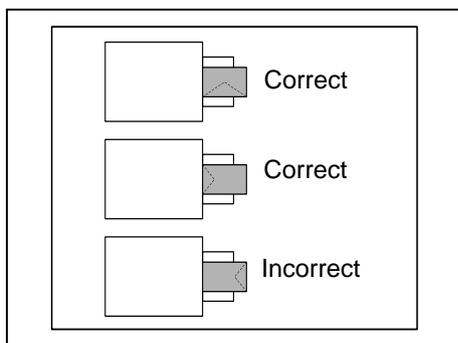
- 4 Align the paper with the paper guides and insert as far as it will go.



Note Do not load more paper than exceeds the tab of the MP tray.

 **Note** If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl. Printed sheets will then come out flat.

Correct		
Incorrect		

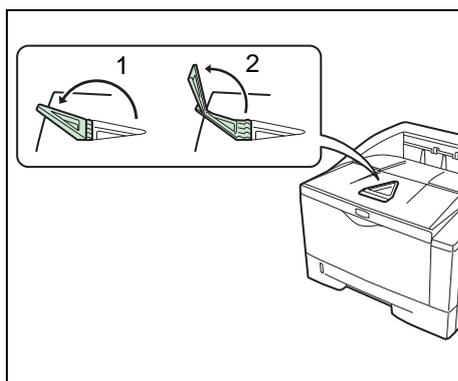


When loading envelope, place with the envelope flap closed and keep the printing side face-up. Insert envelope against the guide with the flap on the front or left side until they stop.

- 5 Specify the paper size and type for MP tray using control panel. For more information, refer to *Advanced Operation Guide*.

Paper Stopper

Open the paper stopper shown in the figure.



4 Connecting and Printing

This chapter explains how to start up the printer, print from your PC, and use the application software included in the DVD-ROM.

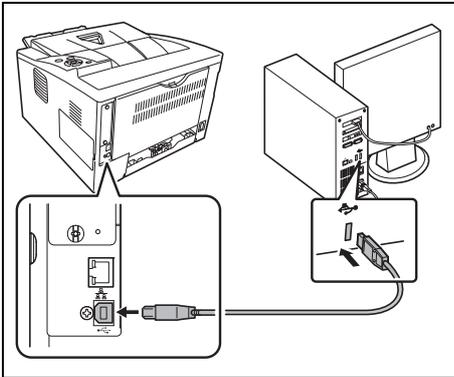
Connections	4-2
Changing Network Interface Parameters	4-4
Printing a Network Interface Status Page	4-6
Command Center RX	4-7
Installing the Printer Driver	4-14
Printing	4-21
Printing by AirPrint	4-23
Status Monitor	4-24
Energy Saver Function	4-28

Connections

This section explains how to start up the printer.

Connecting the USB Cable

Follow the steps as below for connecting the USB cable.



- 1 Connect the USB cable to the USB Interface Connector.

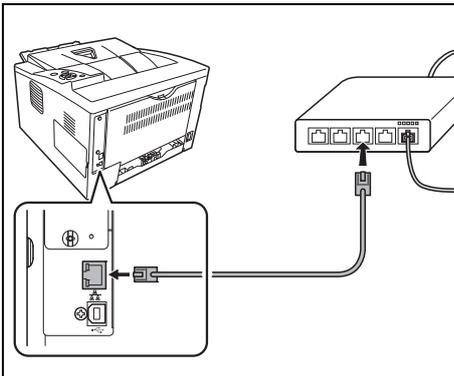


Note Use a USB cable with a rectangular Type A plug and a square Type B plug. This cable is sold separately.

- 2 Connect the other end of the USB cable to the computer's USB interface connector.

Connecting the Network Cable

Follow the steps as below for connecting the network cable.



- 1 Remove the cap attached to the printer.
- 2 Connect the printer to the PC or your network device.

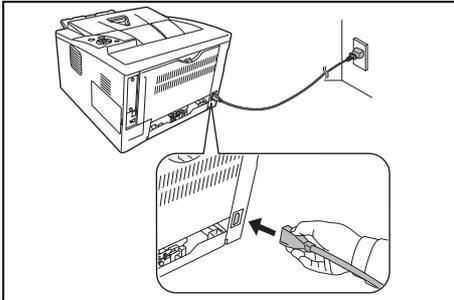


Note Use shielded interface cables. These cables are sold separately.

Connecting the Power Cord

Install the printer close to an AC wall outlet. If an extension cord is used, the total length of the power cord plus extension should be 5 meters (16 feet) or less.

 **Note** Ensure the printer's power switch is off. Only use the power cord supplied with the printer.

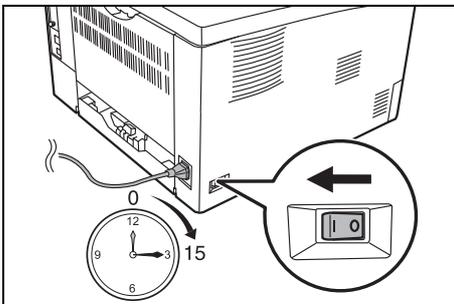


- 1 Connect the power cord to the Power Cord Connector at the rear of the printer.

- 2 Connect the other end of the power cord to a power outlet.

- 3 Press the Power Switch to On (|). The printer begins to warm up.

IMPORTANT If you install the starter toner container and switch on the power, after a moment the message `Please wait(Adding toner)` is displayed. When the printer is first switched on after toner installation, there will be a delay of approximately 15 minutes before the printer gets ready to print. Once the **[Ready]** indicator lights, printer installation is complete.



Changing Network Interface Parameters

This printer supports TCP/IP, TCP/IP (IPv6), IPP, SSL Server and the IPsec protocols and Security Level.

The table below shows the items required for each of the settings.

Configure the printer's network parameters as appropriate for your PC and your network environment.

For details of the procedure, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.



Note When Command Center RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to *Command Center RX User Guide*.

If the optional IB-50 or IB-51 is installed then NetWare and AppleTalk settings are possible. For details, refer to *Optional Network* section of the *Advanced Operation Guide*.

Menu	Submenu	Setting	
Network	TCP/IP	On/Off	
		DHCP	On/Off
		Auto-IP	On/Off
		IP Address	IP address
		Subnet Mask	IP address
		Gateway	IP address
		Bonjour	On/Off
	TCP/IP (IPv6)	On/Off	
		RA (Stateless)	On/Off
		DHCPv6	On/Off
	Security	I/F Block	USB Host
USB Device			Block/Unblock
Option I/F			Block/Unblock
USB Storage			Block/Unblock
WSD-PRINT		On/Off	
Enhanced WSD		On/Off	
EnhancedWSD (SSL)		On/Off	
IPP		On/Off	

Menu	Submenu	Setting
	SSL Server	On/Off
	DES	On/Off
	3DES	On/Off
	AES	On/Off
	IPP over SSL	On/Off
	HTTPS	On/Off
	IPSec	On/Off
	LAN Interface	Auto/ 10BASE-Half/ 10BASE-Full/ 100BASE-Half/ 100BASEFull/ 1000BASE-T
	Security Level	High/Low



Note After all network related settings have been done, turn the machine **OFF** and **ON** again. This is mandatory to make the settings effective!

Printing a Network Interface Status Page

You can print out a status page for the network interface. The network status page shows the network addresses, and other information under various network protocols about the network interface.

Adjust/Maintenance

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Restart Printer
- Service

IMPORTANT *Service* is primarily a menu used by service representative for maintenance work. There is no need for customers to use this menu.

```
Adjust/Maintenance >
```

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Adjust/Maintenance >` appears.

- 3 Press \triangleright while `Adjust/Maintenance >` is displayed.

- 4 Press Δ or ∇ repeatedly until `>Service >` appears.

- 5 Press \triangleright .

- 6 Press Δ or ∇ repeatedly until `>>Print Network Status Page` appears.

```
>>Print  
Network Status Page?
```

- 7 Press **[OK]**. A question mark (?) appears.

- 8 Press **[OK]**. `Processing` appears and a status page is printed out.

- 9 When printing ends, the display returns to `Ready`.

Command Center RX

If the machine is connected to the network, you can configure various settings using Command Center RX.

This section explains how to access Command Center RX, and how to change security settings and the host name.

For details on Command Center RX, refer to the *Command Center RX User Guide*.



Note To fully access the features of the Command Center RX pages, enter the User Name and Password and click **Login**. Entering the predefined administrator password allows the user to access all pages and Settings on the navigation menu. The factory default setting for the default user with administrator privileges is shown below.

Login User Name	Admin
Login Password	Admin

* Upper case and lower case letters are distinguished (case sensitive).

Settings that the administrator and general users can configure in Command Center RX are as follows.

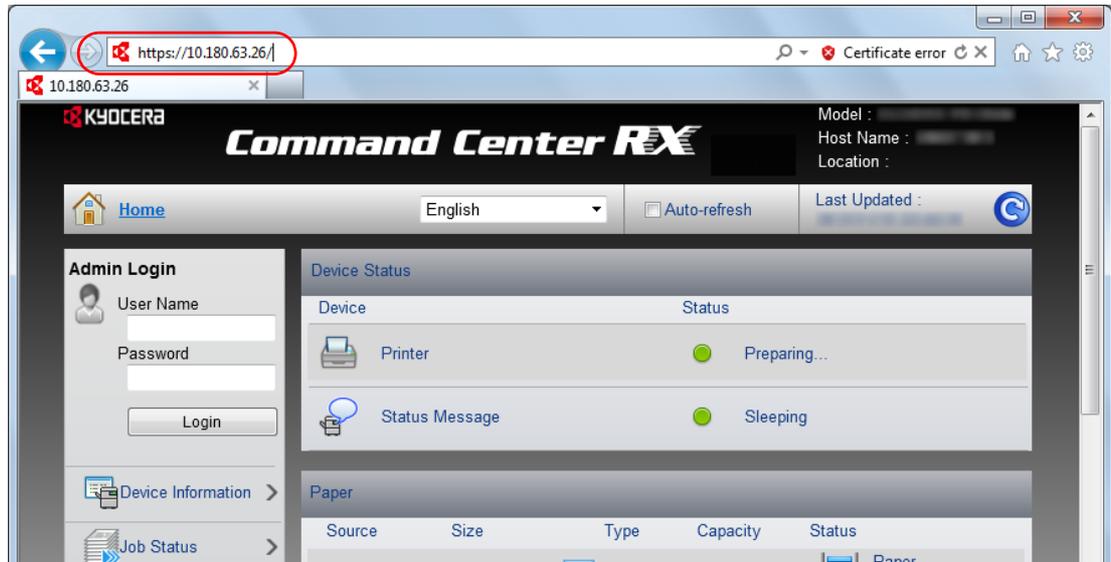
Setting	Description	Administ-rator	General User
Device Information	The machine's structure can be checked. Configuration, Counter, About Command Center RX	<input type="radio"/>	<input type="radio"/>
Job Status	Displays all device information, including print jobs and job log history. Printing Jobs Status, Printing Job Log	<input type="radio"/>	<input type="radio"/>
Device Settings	Configure the advanced settings of the machine. Paper/Feed/Output, Energy Saver/Timer, Date/Time, System	<input type="radio"/>	—
Function Settings	Configure the advanced function settings. Common/Job Defaults, Printer, E-mail	<input type="radio"/>	—
Network Settings	Configure the network advanced settings. General, TCP/IP, Protocol	<input type="radio"/>	—
Security Settings	Configure the security advanced settings. Device Security, Network Security, Certificates	<input type="radio"/>	—
Management Settings	Configure the advanced management settings. Authentication, Notification/Report, History Settings, SNMP, Reset	<input type="radio"/>	—

Accessing Command Center RX

- 1 Launch your Web browser.
- 2 In the address or location bar, enter the machine's IP address or the host name.

Examples: <https://192.168.48.21/> (for IP address)

<https://P001> (if the host name is "P001")



The web page displays basic information about the machine and Command Center RX as well as their current status.



Note If the screen **There is a problem with this website's security certificate.** is displayed, configure the certificate. For details on Certificates, refer to the *Command Center RX User Guide*.

You can also continue the operation without configuring the certificate.

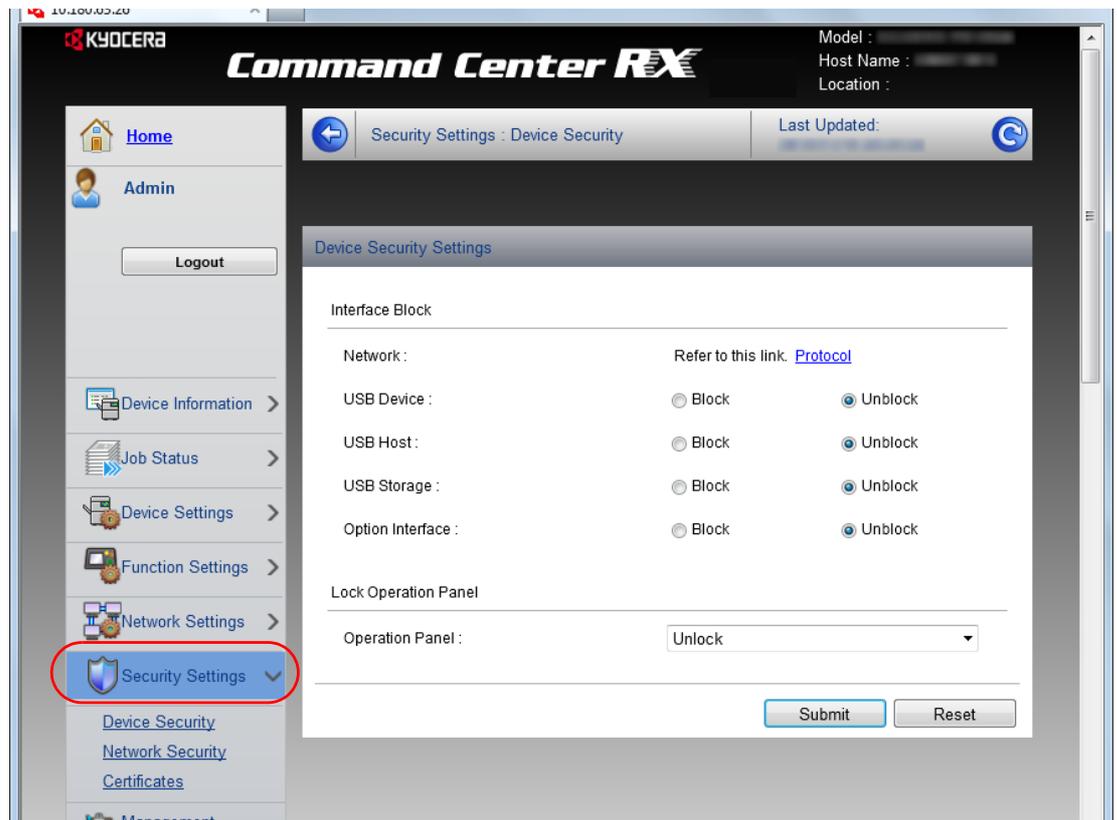
- 3 Select a category from the navigation bar on the left of the screen. When you log in to the machine as an administrator, you will see **Device Settings**, **Function Settings**, **Network Settings**, **Security Settings**, and **Management Settings**.

Changing Security Settings

This section explains how to change the security settings.

Access Command Center RX by referring to **Accessing Command Center RX** on page 4-8.

- 1 From the **Security Settings** menu, select the setting you want to configure. The configurable settings are **Device Security**, **Network Security**, and **Certificates**.



 **Note** The configurable settings within **Device Security** and **Network Security** can also be configured from the machine's System Menu.

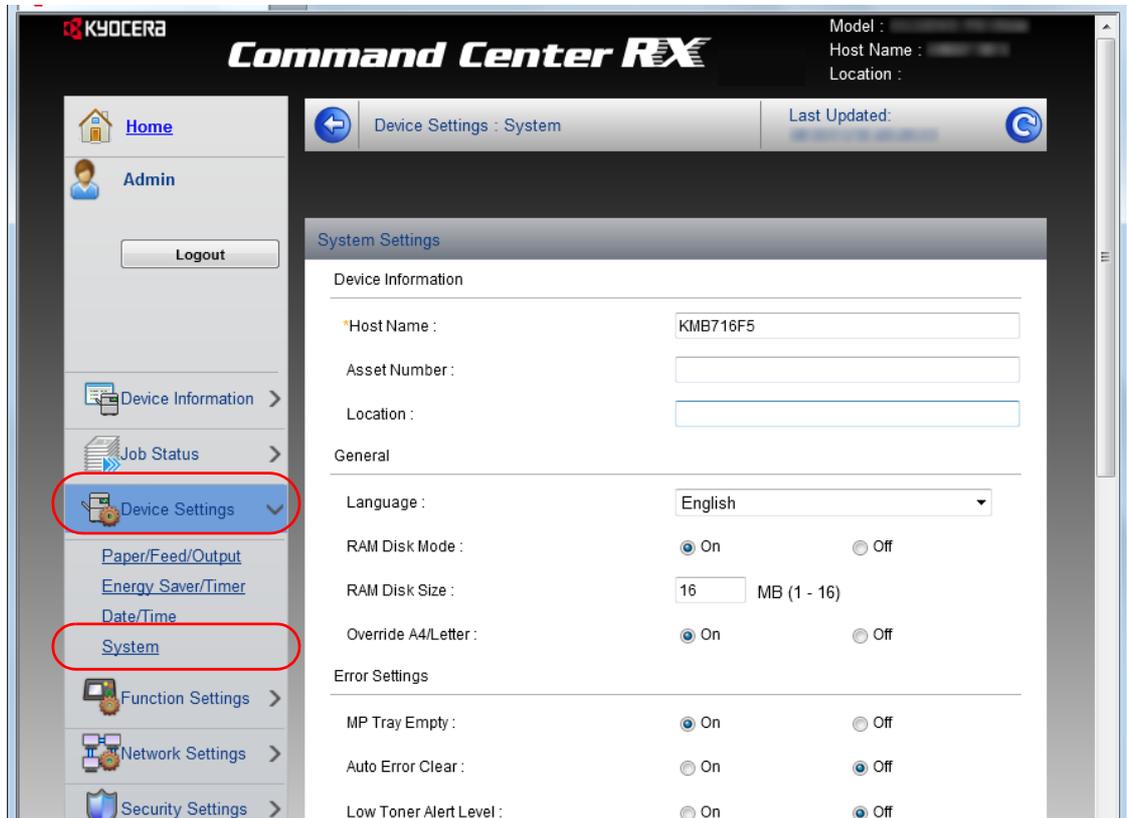
For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.

For details on settings related to certificates, refer to the *Command Center RX User Guide*.

Changing Device Information

Change the device information of the machine.

- 1 Access Command Center RX by referring to **Accessing Command Center RX** on page 4-8.
- 2 From the **Device Settings** menu, select **System**.



- 3 Enter the device information, and then click **Submit**.

IMPORTANT After changing the setting, restart the network or turn the machine OFF and then ON.

To restart the network interface card, click **Reset** in the **Management Settings** menu, and then click **Restart Network** in **Restart**.

E-mail settings

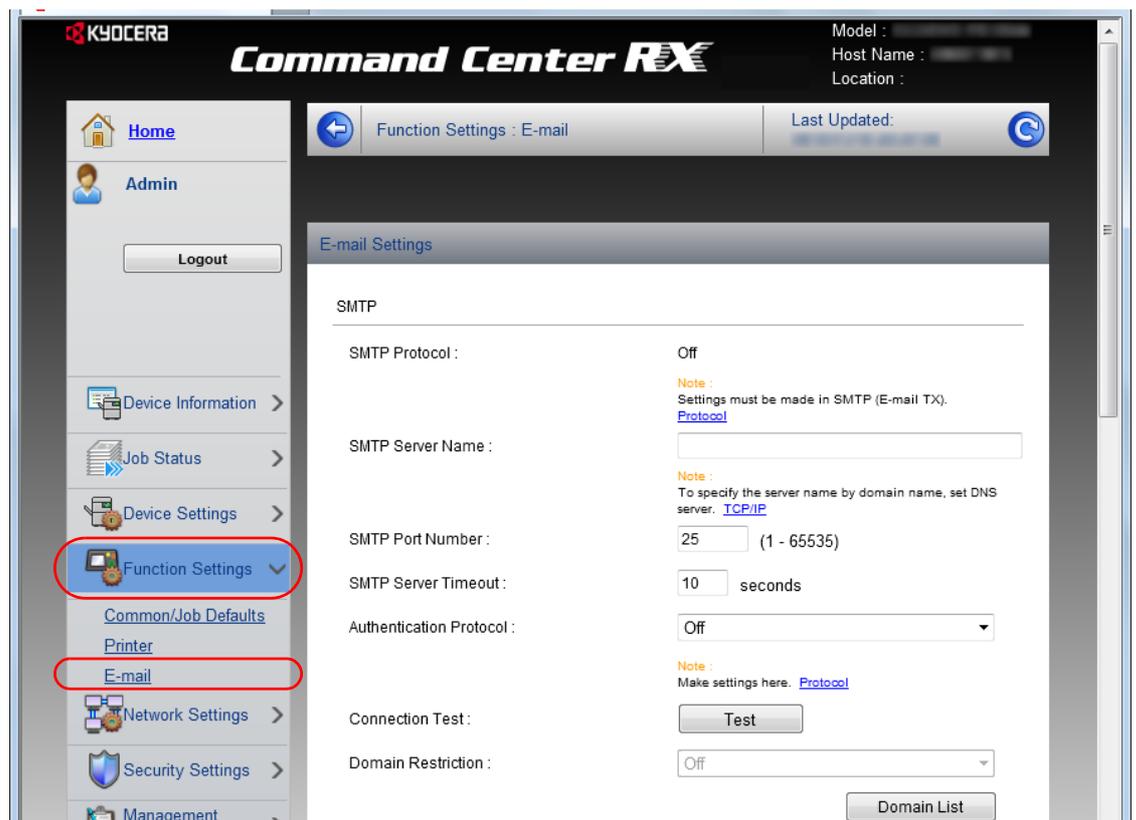
By configuring the SMTP settings, you can send E-mail notifications on completed jobs.

To use this function, this machine must be connected to a mail server using the SMTP protocol.

In addition, check the following.

- The network environment used to connect this machine to the mail server
A full-time connection via a LAN is recommended.
- SMTP settings
Use Command Center RX to register the IP address or host name of the SMTP server.
- If limits have been set on the size of E-mail messages, it may not be possible to send very large E-mails.
- The procedure for specifying the SMTP settings is explained below.

- 1 Access Command Center RX by referring to **Accessing Command Center RX** on page 4-8.
- 2 From the **Function Settings** menu, click **E-mail**.



3 Enter the appropriate values to each field.

Setting	Description
SMTP	Set to send e-mail from the machine.
SMTP Protocol	Set SMTP protocol. Set the SMTP (E-mail TX) setting to On on the Protocol Settings page.
SMTP Server Name	Enter the host name or IP address of the SMTP server.
SMTP Port Number	Specify the port number to be used for SMTP. Use the SMTP default port 25.
SMTP Server Timeout	Set the amount of time to wait before time-out in seconds.
Authentication Protocol	Set whether SMTP authentication is used. To use authentication, enter the user information for authentication.
SMTP Security	Set SMTP security. Turn on SMTP Security in SMTP (E-mail TX) on the Protocol Settings page.
POP before SMTP Timeout	Specify the time in seconds until the connection to the POP server times out. This can be set when POP before SMTP is selected in Authentication Protocol .
Connection Test	Tests to confirm that the settings are correct.
Domain Restriction	Set whether or not domains are restricted. Click the Domain List and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
POP3	Set to receive e-mail at the machine.
POP3 Protocol	Set POP3 protocol. Set the POP3 (E-mail RX) setting to On on the Protocol Settings page.
Check Interval	Specify the interval for checking for incoming e-mail in minutes.
Run once now	Click Receive to connect to the POP3 server immediately and check for incoming E-mails.
Domain Restriction	Set whether or not domains are restricted. Click the Domain List and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
POP3 User Settings	Configure the settings for POP3 user accounts and the POP3 server. You can configure up to three users.

Setting		Description
E-mail Send Settings	E-mail Size Limit	Enter the maximum size of E-mail that can be sent in kilobytes. When E-mail size is greater than this value, an error message appears and E-mail sending is cancelled. Use this setting if you have set E-mail Size Limit for SMTP server. If not, enter a value of 0 (zero) to enable E-mail sending regardless of the size limit.
	Sender Address	Enter the E-mail address of the person responsible for the machine, such as the machine administrator, so that a reply or non-delivery report will go to a person rather than to the machine. The sender address must be entered correctly for SMTP authentication. The maximum length of the sender address is 128 characters.
	Signature	Enter the signature. The signature is free form text that will appear at the end of the E-mail body. It is often used for further identification of the machine. The maximum length of the signature is 512 characters.
	Function Default	Change the function default settings in Common/Job Defaults Settings page.

4 Click **Submit**.

Installing the Printer Driver

Ensure the printer is plugged in and connected to the PC before installing the printer driver from the DVD-ROM.



Note Installation on Windows must be done by a user logged on with administrator privileges.

When connected by USB cable, Plug and Play is disabled on this device when in Sleep mode. To continue the installation, press the **GO** key to wake the device from Low Power Mode or Sleep before continuing.

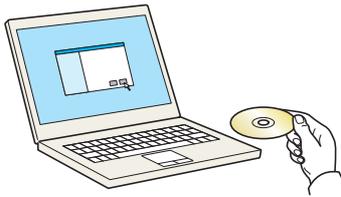
KX XPS DRIVER cannot be installed on Windows XP.

Installing Printer Driver in Windows

Express Install

The following procedure is an example for installing the software in Windows 7 using **Express Install**.

For details, refer to Custom Installation in the **Custom Install** on page 4-16.



- 1 Insert the DVD-ROM.



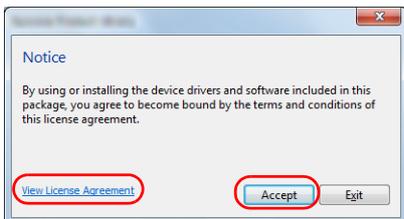
Note Installation on Windows must be done by a user logged on with administrator privileges.

If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.

If the autorun screen is displayed, click **Run setup.exe**.

If the user account management window appears, click **Yes (Allow)**.

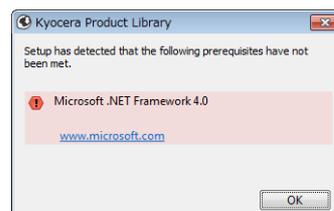
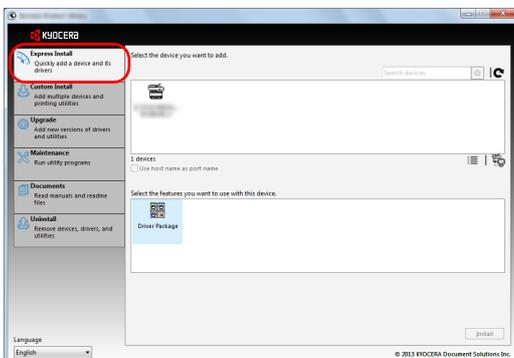
- 2 Click **View License Agreement** and read the License Agreement. Click **Accept**.

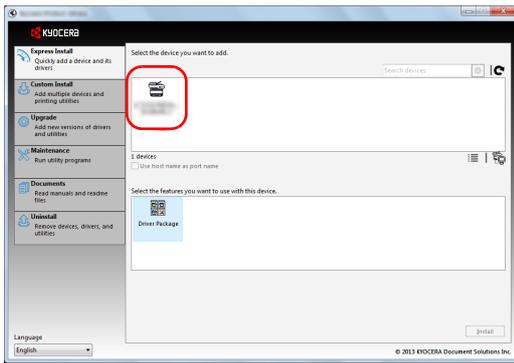


- 3 Select **Express Install** tab.



Note To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.

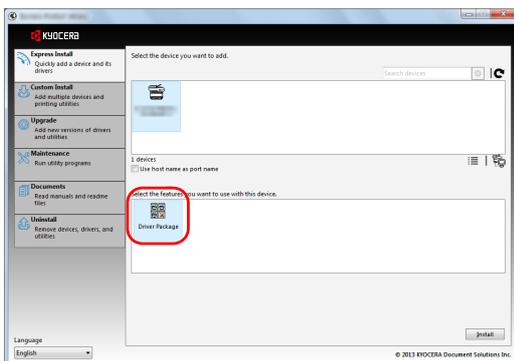




4 Select the device to be installed.

You can also select **Use host name for port name** and set to use the host name of the standard TCP/IP port. (A USB connection cannot be used.)

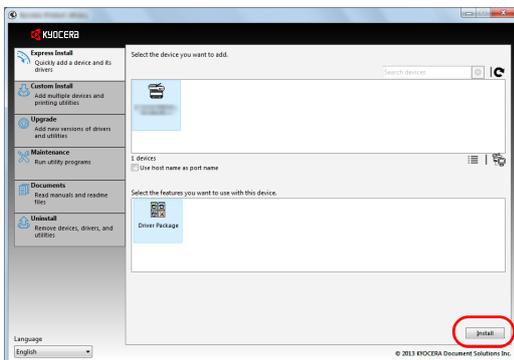
 **Note** The machine cannot be detected unless it is on. If the computer fails to detect the machine, verify that it is connected to the computer via a network or USB cable and that it is turned on and click  (Reload).



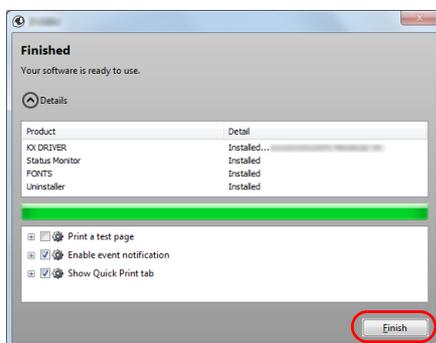
5 Select the package to be installed.

Packages include the following software:

- Driver Package
KX DRIVER, Status Monitor, Fonts



6 Click Install.



7 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

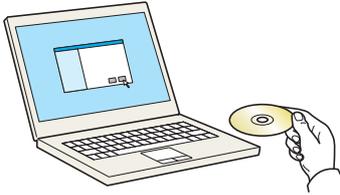
Click **Finish** to exit the wizard.

 **Note** When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printer Driver User Guide* on the DVD-ROM.

If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

Custom Install

The following procedure is an example for installing the software in Windows 7 using **Custom Install**.



- 1 Insert the DVD-ROM.



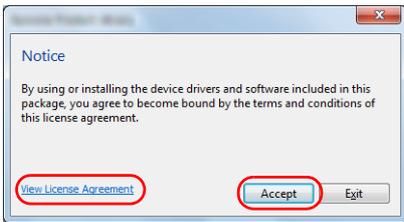
Note Installation on Windows must be done by a user logged on with administrator privileges.

If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.

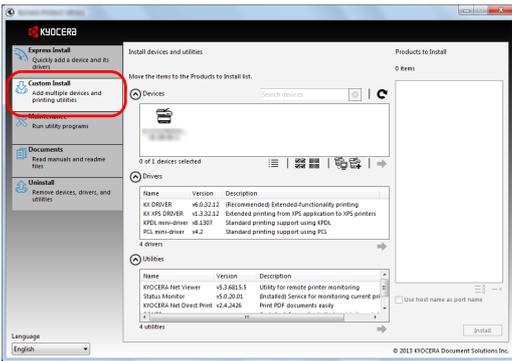
If the autorun screen is displayed, click **Run setup.exe**.

If the user account management window appears, click **Yes (Allow)**.

- 2 Click **View License Agreement** and read the License Agreement. Click **Accept**.



- 3 Select **Custom Install** tab.



- 4 Select the device to be installed, and click the arrow button to move it to the **Products to Install** list.

The following buttons are available.



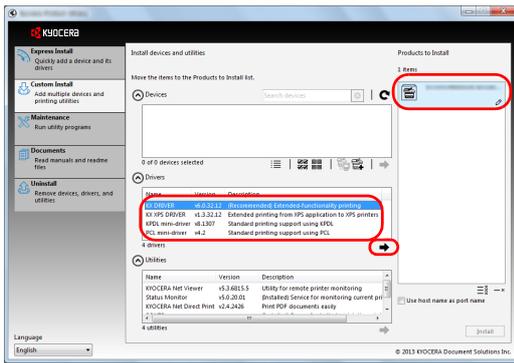
: This button is used to switch the display between icon and text display.



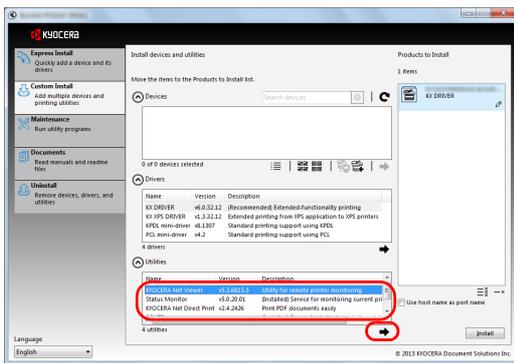
: This button is used to select multiple items.



: If the target device is not displayed, press this button to directly select the device to be used.

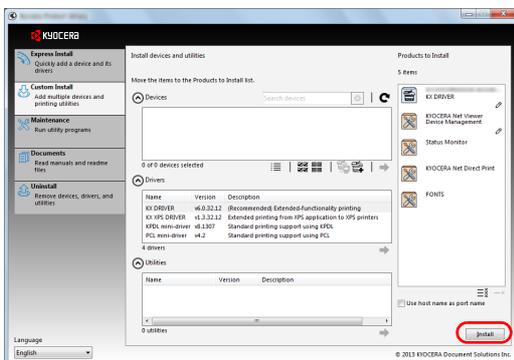
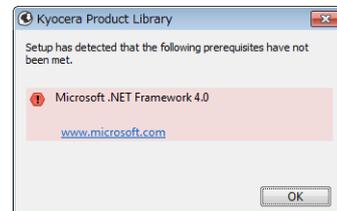


- 5 Select the device to be installed and driver to be installed, and then click the arrow button to move it to the **Products to Install** list.

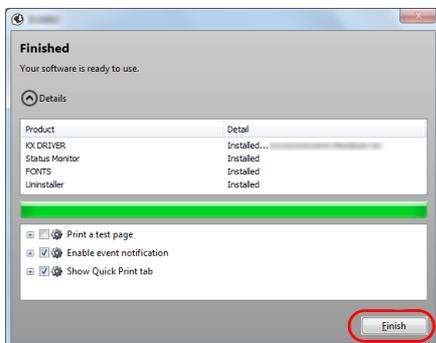


- 6 Select the utility to be installed, and then click the arrow button to move it to the **Products to Install** list.

 **Note** To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.



- 7 Click **Install**.



- 8 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

Click **Finish** to exit the wizard.

 **Note** When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printer Driver User Guide* on the DVD-ROM.

If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

Uninstalling the Software

Perform the following procedure to delete the Software from your computer.

 **Note** Uninstallation on Windows must be done by a user logged on with administrator privileges.

- 1 Click **Start** button on the Windows and then select **All Programs**, **Kyocera**, and **Uninstall Kyocera Product Library** to display the Uninstall Wizard.
- 2 Place a check in the check box of the software to be deleted.
Click **Uninstall**.



- 3 If a system restart message appears, restart the computer by following the screen prompts. This completes the software uninstallation procedure.

 **Note** The software can also be uninstalled using the Product Library. In the Product Library installation screen, click **Uninstall**, and follow the on-screen instructions to uninstall the software.

Installing Printer Driver in Macintosh

The machine's printer functionality can be used by a Macintosh computer.

The following is an explanation for installation in MAC OSX 10.7.

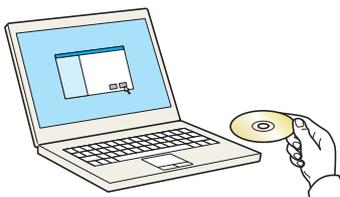
 **Note** Installation on MAC OS must be done by a user logged on with administrator privileges.

When printing from a Macintosh computer, set the machine's emulation to **KPDL** or **KPDL(Auto)**. For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.

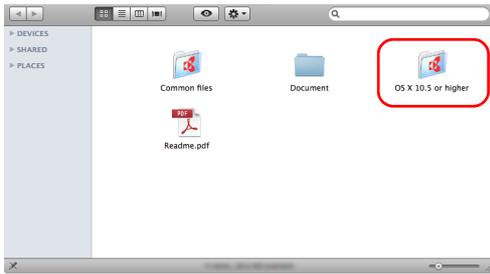
If connecting by Bonjour, enable Bonjour in the machine's network settings. For details, refer to the *Using the Operation Panel* section of the *Advanced Operation Guide*.

In the Authenticate screen, enter the name and password used to log in to the operating system.

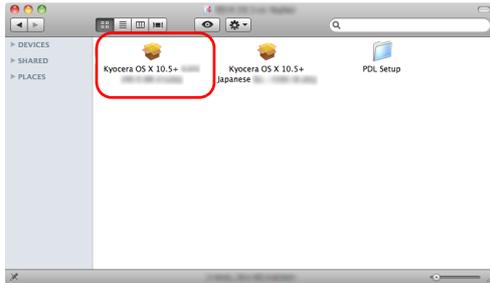
- 1 Insert the DVD-ROM.



- 2 Double-click the **Kyocera** icon.
- 3 Double-click **OS X 10.5 or higher**.



- 4 Double-click **Kyocera OS X 10.5+**.



- 5 The printer driver installation program starts up.



- 6 Install the printer driver as directed by the instructions in the installation software.

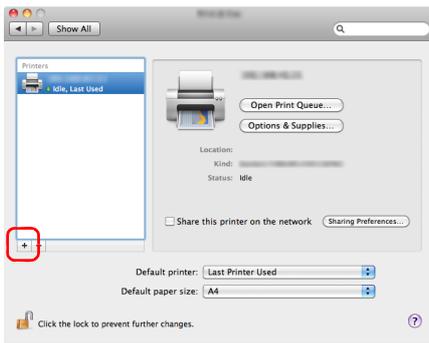
This completes the printer driver installation.

If a USB connection is used, the machine is automatically recognized and connected.

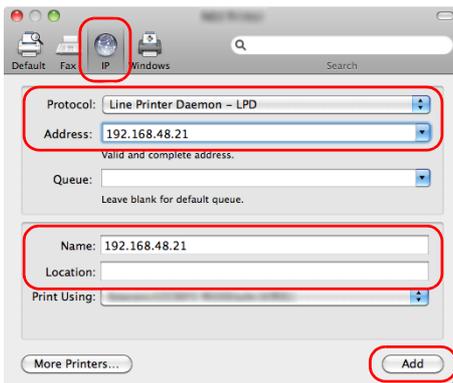
If an IP connection is used, the settings below are required.

- 7 Open System Preferences and click **Print & Scan**.





8 Click the plus symbol (+) to add the installed printer driver.

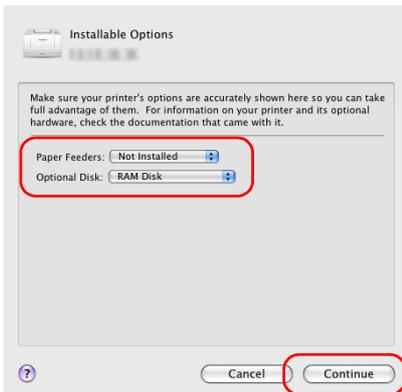


9 Click the IP icon for an IP connection and then enter the IP address and printer name.

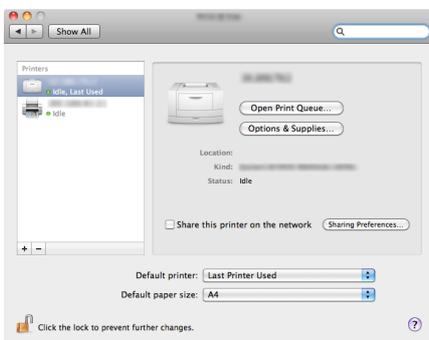
The number entered in **Address** will automatically appear in **Name**. Change if needed.



Note When using a Bonjour connection, select **Default** and click the item that appears in **Printer Name**. The driver with the same name as the machine automatically appears in **Driver**.



10 Select the options available for the machine and click **Continue**.



11 The selected printer is added.

Printing

This section explains the printing procedure from an application software. You can specify the printing settings from each tab on KX Driver. KX Driver is stored in the DVD-ROM (Product Library). For more information, refer to the *Printer Driver User Guide* in the DVD-ROM.

About KX Driver

KX Driver consists of the following tabs.

Quick Print

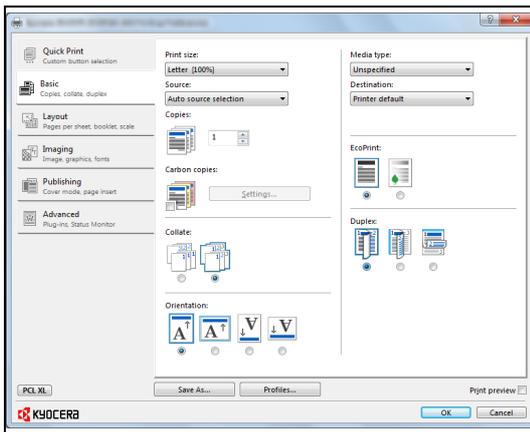
Use this tab to define basic print options into group profiles that can be accessed quickly and easily.

Basic

Use this tab to select the page size and orientation. The paper source and duplex printing are also selected.

Layout

Use to create multiple pages on a single sheet of paper. Also contains the scaling option.



Imaging

Select this tab to change the print quality, and the font or graphic settings.

Publishing

Use to add covers or page inserts to your output. You can also produce a set of transparencies with a blank or printed sheet interleaved using Transparency Interleaving.

Advanced

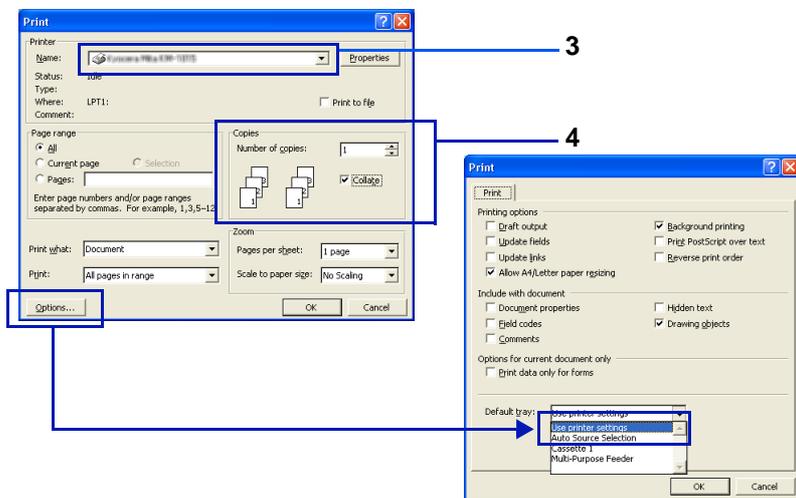
Use this tab to configure settings for adding text pages or watermarks to print data.

Printing from Application Software

The steps required to print a document created with an application are explained below. You can select the printing Paper Size and Output Destination.

- 1 Load the paper required into the paper cassette.
- 2 From the application File menu, select **Print**. The Print dialog box displays.
- 3 Click the drop down list of printer names. All the printers installed in Windows are listed. Click the name of the machine.
- 4 Use **Number of copies** to enter the number of prints required. Up to 999 copies can be entered.

For Microsoft Word, we recommend that you click **Options** and specify **Use printer settings** for the **Default tray**.



- 5 To start printing, click **OK**.



Note For information on how to use the printer driver software, refer to *Printer Driver User Guide*.

Printing by AirPrint

AirPrint is a printing function that is included standard in iOS 4.2 and later products, and Mac OS X 10.7 and later products.

This function enables you to connect and print to any AirPrint compatible device without installing a printer driver.

To allow the machine to be found when printing by AirPrint, you can set machine location information in Command Center RX.

For details, refer to the *Command Center RX User Guide*.

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function.



Note When you activate Status Monitor, check the status below.

- KX Driver is Installed.
- Either `Enhanced WSD` or `EnhancedWSD (SSL)` are set to `On` in *Security* section of the *Advanced Operation Guide*.

Accessing the Status Monitor

The Status Monitor also starts up when printing is started.

Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

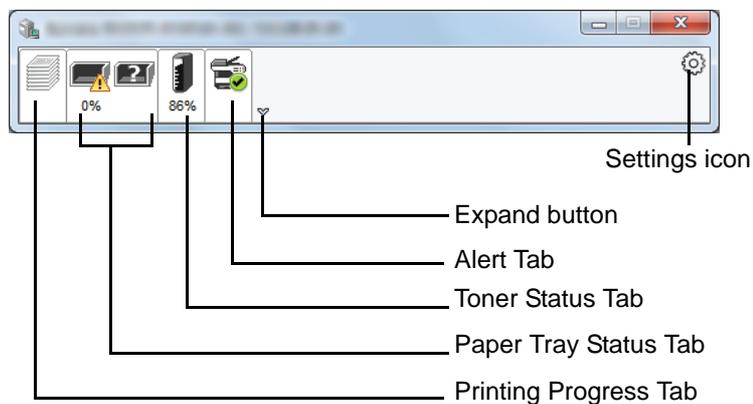
- Exit manually:
Click the settings icon and select **Exit** in the menu to exit the Status Monitor.
- Exit automatically:
The Status Monitor automatically shuts down after 7 minutes if it is not being used.

Status Monitor Display

The display of the Status Monitor is as follows.

Quick View State

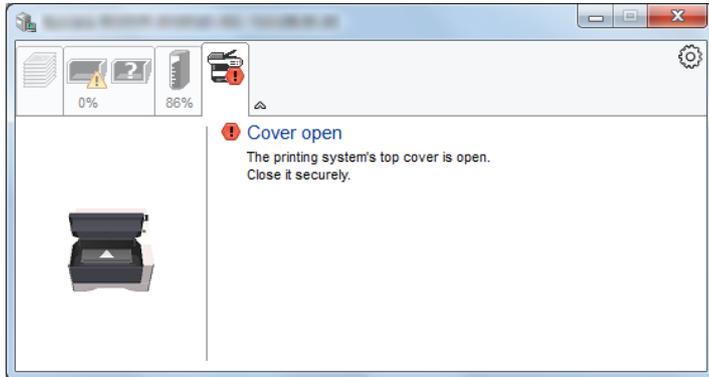
The status of the printer is displayed using icons. Detailed information is displayed when the Expand button is clicked.



Detailed information is displayed by clicking on each icon tab.

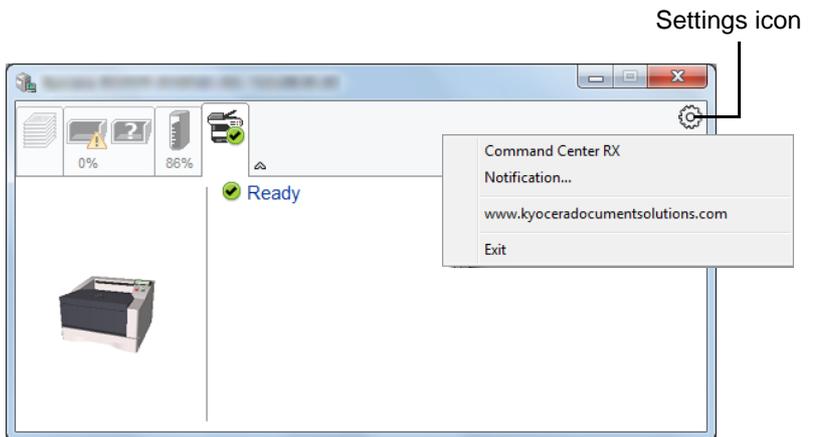
Alert Tab

If an error occurs, a notice is displayed using a 3D image and a message.



Status Monitor Context Menu

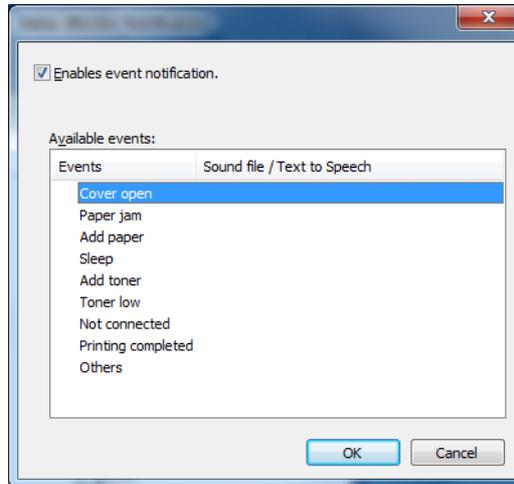
The following menu is displayed when the settings icon is clicked.



- **Command Center RX**
If the printer is connected to a TCP/IP network and has its own IP address, use a web browser to access the Command Center RX to modify or confirm the network settings. For more information, refer to the *Command Center RX User Guide*.
This menu is not displayed when using USB connection.
- **Notification...**
This sets the display of the Status Monitor. For details, refer to **Status Monitor Notification Settings** on page 4-27.
- **www.kyoceradocumentsolutions.com**
Open our website.
- **Exit**
Exits the Status Monitor.

Status Monitor Notification Settings

The Status Monitor settings and event list details are displayed.



Select whether notification is performed when an error in the event list occurs.

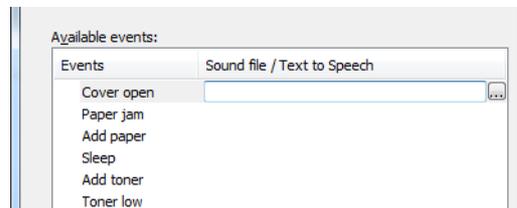
1 Select **Enable event notification**.

If this setting is set to Off, then the Status Monitor will not start up even when printing is executed.

2 Select an event to use with the text to speech function in **Available events**.

3 Click **Sound file / Text to Speech** column.

Click the browse (...) button to notify the event by sound file.



Note The available file format is WAV.

When customizing the message texts to read on the screen aloud, enter the texts in the text box.

Energy Saver Function

Low Power Mode

When the set time (factory setting is 1 minute) elapses after the printer is last used, the printer automatically enters low power mode. The message display backlight and lights turn off and power consumption is reduced. This status is referred to as Low Power Mode.

The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to *Low Power Timer (Low Power Mode timer timeout time)* section of the *Advanced Operation Guide*.

If print data is received during Low Power Mode, the message display lights up and printing starts.

To resume, press **[GO]**. The printer will be ready to operate within 8 seconds or less.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

Sleep

For Europe

When the set time (factory setting is 15 minutes) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

To use the printer, press **[GO]**. The printer will be ready to operate within 16.5 seconds or less.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting)* section of the *Advanced Operation Guide*.

Except for Europe

When the set time (factory setting is 1 minute) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting)* section of the *Advanced Operation Guide*.

There are two sleep modes: Quick Recovery and Energy Saver. The default setting is Energy Saver mode.

Quick Recovery Mode

The recovery from the sleep mode is faster than when using Energy Saver mode.

The message display goes off when sleep mode is entered and the Ready indicator flashes.

The machine recovers quickly when **[GO]** is pressed. The machine also automatically recovers and prints when a job is detected.

If print data is received during Sleep, the print job is performed while the message display remains unlit.

To use the printer, press **[GO]**.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout setting)* section of the *Advanced Operation Guide*.

Energy Saver Mode

This mode reduces power consumption even more than quick recovery mode, and allows Sleep mode to be set separately for each function.

To use the printer, press **[GO]**. The printer will be ready to operate within 16.5 seconds or less.

For more information on Energy Saver settings, refer to *Sleep Level Set (Sleep level setting)* section of the *Advanced Operation Guide*.

If the Low Power Timer is equal to the Sleep Timer, a Sleep mode is preceded.

5 Maintenance

This chapter explains how to replace the toner container and clean the printer.

General Information	5-2
Toner Container Replacement	5-2
Cleaning the Printer	5-6
Prolonged Non-Use and Moving of the Printer	5-9

General Information

This chapter describes basic maintenance tasks you can perform for the printer. You can replace the toner container according to the printer's display.

Also, the internal parts need periodic cleaning.



Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The message identifies the toner status at two stages of toner usage.

- When the printer becomes low on toner, the message `Toner low` is displayed. Note the replacement is not always necessary at this stage.
- If you ignore the above status and continue printing, the message `Replace toner` is displayed just before the toner is used up. The toner container must then be replaced immediately.

In either case, replace the toner container.

Frequency of Toner Container Replacement

Assuming an average toner coverage of 5 % and EcoPrint mode turned off, the toner container will need replacing approximately once every 7,200 pages.

You can print a status page to check how much toner remains in the toner container. The Toner Gauge in the consumables status section on the status page shows a progress bar, which roughly represents how much toner is left in the toner container.

Starter Toner Container

The toner container packed with the new printer is a starter toner container. The starter toner container lasts an average of 2,300 pages.

Toner Kits

For best results, we recommend that you only use genuine Kyocera Parts and Supplies.

A new toner kit contains the following items:

- Toner Container
- Plastic waste bag for old toner container
- Installation Guide



Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Replacing the Toner Container

This section explains how to replace the toner container.



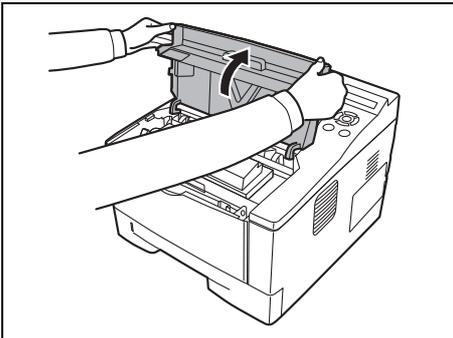
CAUTION Do not attempt to incinerate parts which contain toner. Dangerous sparks may cause burns.

IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks) away from the toner container. This is to avoid damaging media by the magnetism of toner.

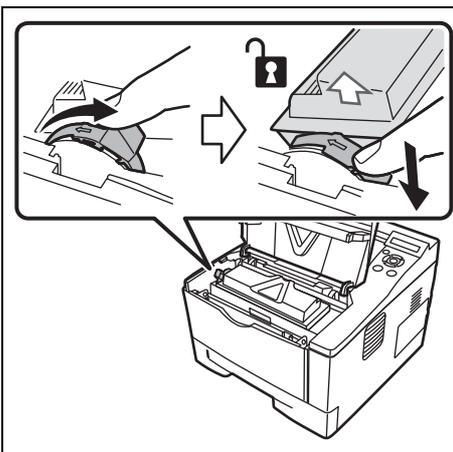
IMPORTANT Kyocera Document Solutions Inc. is not liable against any damages or problems arising from the use of toner containers other than those designated as original Kyocera toner containers. For optimum performance, it is also recommended to use only the Kyocera toner containers which are specifically intended for use in your country or region. If the toner container for another destinations is installed, the printer will stop printing.



Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.



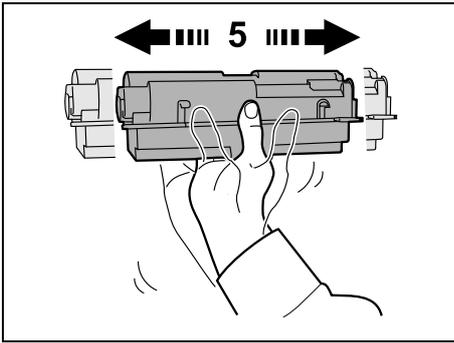
- 1 Open the top cover.



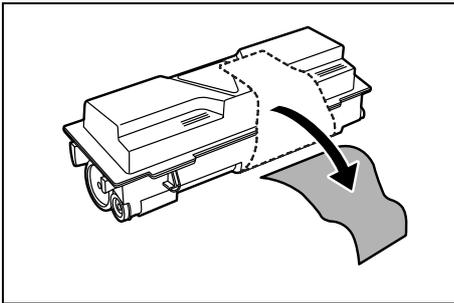
- 2 Turn the lock lever to the unlock position. Push the lock lever to the position marked by the arrow and pull out the toner container.



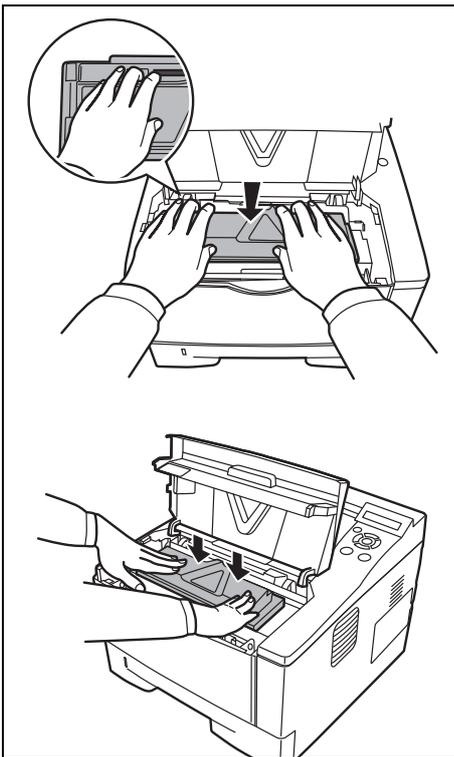
Note Put the old toner container in the plastic bag (supplied with the new toner kit) and discard it later according to the local code or regulations for waste disposal.



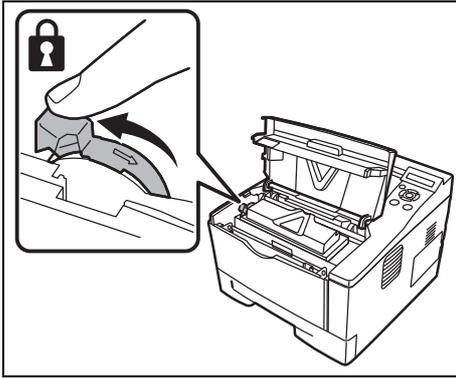
- 3 Take the new toner container out of the toner kit. Shake the new toner container at least 5 times as shown in the figure in order to distribute the toner evenly inside the container.



- 4 Remove the label from the toner container.



- 5 Install the new toner container in the printer. Push firmly on the top of the container at the positions marked PUSH, until you hear a click.



- 6 Turn the lock lever to the lock position.
- 7 Close the top cover.

Maintenance Kit Replacement

When the machine prints 100,000 pages, a message is displayed indicating that the maintenance kit should be replaced. The maintenance kit must then be replaced immediately.

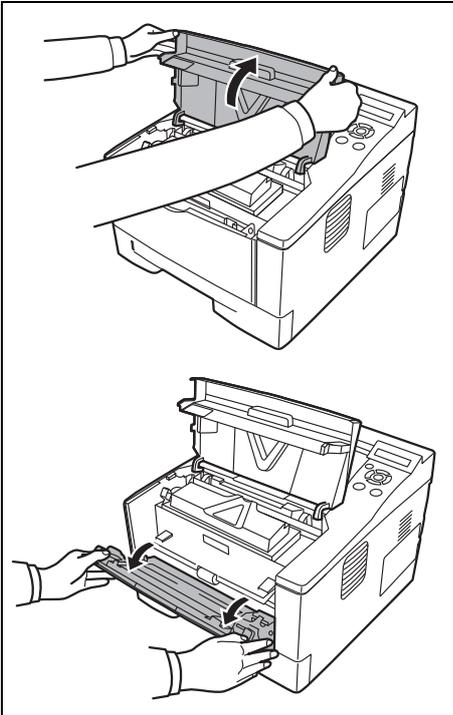
To replace the maintenance kit, contact your service technician.

IMPORTANT When the waste toner in the drum unit is almost full, Warning waste toner box is displayed. Replace the maintenance kit.

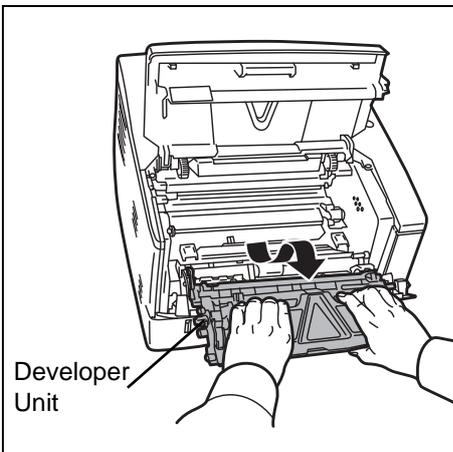
Cleaning the Printer

To avoid print quality problems, the interior of the printer must be cleaned with every toner container replacement.

- 1 Open the top cover and front cover.



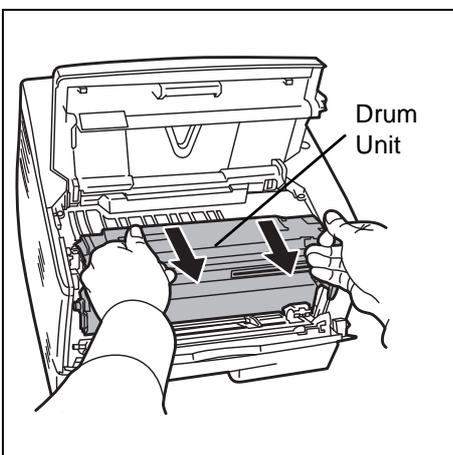
- 2 Lift the developer unit together with the toner container out of the printer.

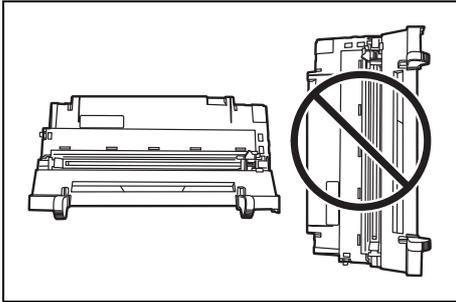


- 3 Remove the drum unit from the printer by holding the green levers with both hands.

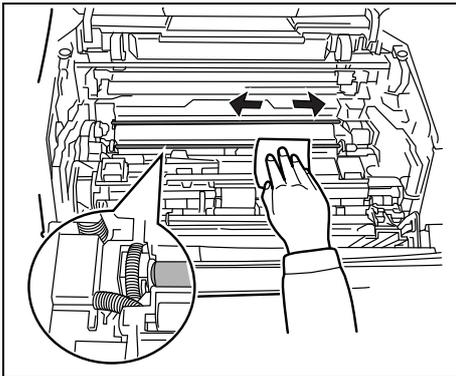


Note The drum unit is sensitive to light. Never expose the drum unit to light for more than five minutes.

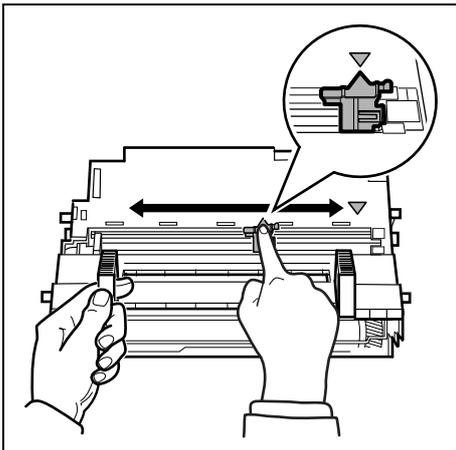




- 4 Place the drum unit flat on a clean, level surface.
IMPORTANT Do not place the drum unit on end.

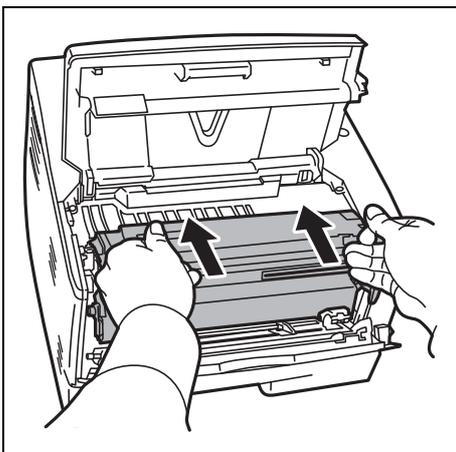


- 5 Use a clean, lint free cloth to clean dust and dirt away from the metal registration roller.
IMPORTANT Take care not to touch the transfer roller (black) during cleaning.

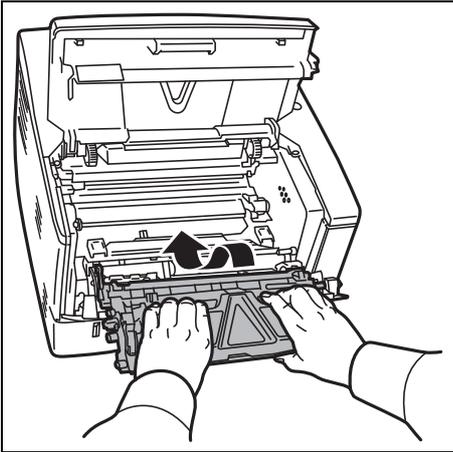


- 6 On the drum unit, slide the charger cleaner (green) back and forth 2 or 3 times to clean the charger wire, then return it to its original position (CLEANER HOME POSITION).
IMPORTANT Remove the fixing tape on the charger cleaner in case of the first cleaning.

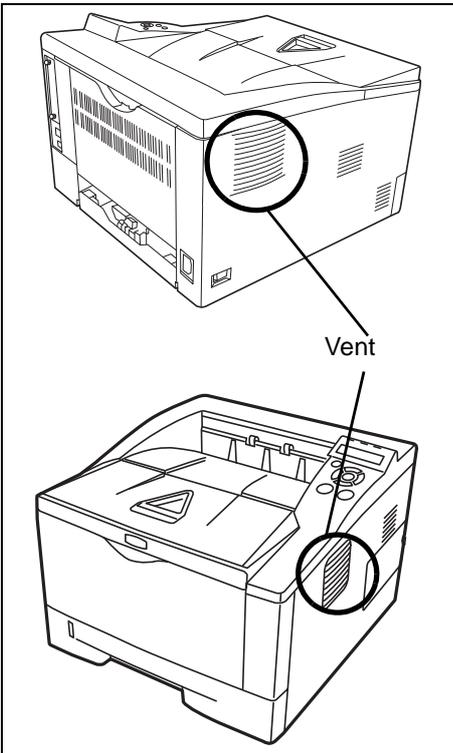
After cleaning, make sure you restore the charger cleaner to its home position.



- 7 When cleaning is complete, return the drum unit to the original position.



- 8 Return the developer unit to its position, aligning the guides at both ends with the slots in the printer. Then, close the front cover and top cover.



- 9 Use a lint free cloth to clean dust and dirt away from the vent on the left and the right side of the machine.

Prolonged Non-Use and Moving of the Printer

Prolonged Non-use

If you ever leave the printer unused for a long period of time, remove the power cord from the wall outlet.

We recommend you consult with your dealer about the additional actions you should take to avoid possible damage that may occur when the printer is used next time.

Moving the Printer

When you move the printer:

- Move it gently.
- Keep it as level as possible to avoid spilling toner inside the printer.
- Be sure to consult a service technician before attempting long distance transportation of the printer.



WARNING If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

6 Troubleshooting

This chapter explains how to handle printer problems, understand error messages, and clear paper jams.

General Guidelines	6-2
Print Quality Problems	6-3
Error Messages	6-5
Ready, Data, and Attention Indicators	6-9
Clearing Paper Jams	6-10

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service repairs.

Symptom	Check Items	Corrective Actions
Print quality is poor.	–	Select half speed mode using the printer driver. Refer to <i>Print Quality Problems</i> on page 6-3.
Text is missing on the Windows test page.	–	This is a problem specific to the Windows OS. It is not a printer problem. It does not affect print quality.
Paper is jammed.	–	Refer to <i>Clearing Paper Jams</i> on page 6-10.
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check the power cord is property plugged into power outlet.	Connect both ends of the power cord securely. Try replacing the power cord. Refer to <i>Installation Guide</i> for more information.
	Check the power switch is in the On () position.	Refer to the <i>Installation Guide</i> for more information.
The printer prints a status page but data from the computer is not being printed.	Check program files and application software.	Try printing another file or using another print command. If the problem occurs with a specific file or application, check the printer settings for that application.
	Check the interface cable.	Connect both ends of the interface cable securely. Try replacing the printer cable. Refer to the <i>Installation Guide</i> for more information.
Vapor is emitted near the top tray.	Check if the temperature is low near the location of the printer, or if the paper that is being used has been exposed to humidity.	Depending on the operating environment of the printer and the condition of the paper, heat generated during printing can evaporate water moisture in the printed paper, emitting vapor from the printer. In this case, printing can be continued without any problem. To correct this, increase the temperature in the room, and use paper that has been stored in a dry place.

Tips

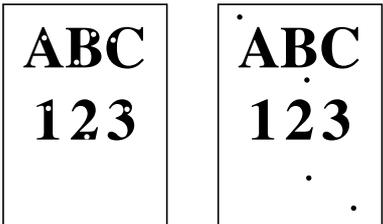
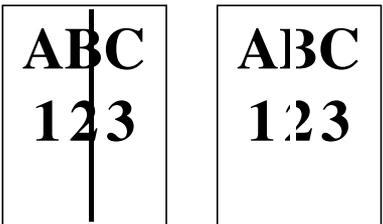
Printer problems may be solved easily by following the tips below. When you have encountered a problem that cannot be solved following the guidelines above, try the following:

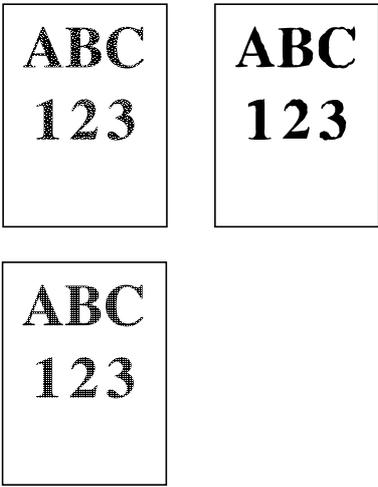
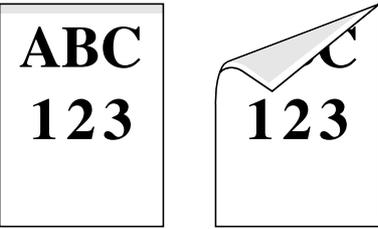
- Restart the computer you are using to send print jobs to the printer.
- Obtain and use the latest version of the printer driver. The latest versions of printer drivers and utilities are available at: <http://www.kyoceradocumentsolutions.com>.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service representative.

Printed Results	Corrective Action
<p>Completely blank printout</p> 	<p>Check the toner container. Open the front cover and check that the toner container is correctly installed in the printer. Refer to <i>Toner Container Replacement</i> on page 5-2.</p>
<p>Full single-color printout</p> 	<p>Contact your service representative.</p>
<p>Dropouts, stray dots</p> 	<p>Drum or developer unit may be damaged. If the problem is not solved even after printing several pages, call for service representative.</p>
<p>Vertical streaks</p> 	<p>Check the toner container and if necessary replace. Refer to <i>Toner Container Replacement</i> on page 5-2.</p> <p>Clean the charger wire. Refer to <i>Cleaning the Printer</i> on page 5-6.</p> <p>Check the charger cleaner of the drum unit is in its original position. Refer to <i>Cleaning the Printer</i> on page 5-6.</p>

Printed Results	Corrective Action
<p>Faint or blurred printing</p> 	<p>Check the toner container and if necessary replace. Refer to <i>Toner Container Replacement</i> on page 5-2.</p> <hr/> <p>Clean the charger wire. Refer to <i>Cleaning the Printer</i> on page 5-6.</p>
<p>Gray background</p> 	<p>Check the toner container and if necessary replace. Refer to <i>Toner Container Replacement</i> on page 5-2.</p> <hr/> <p>Check the developer unit and drum unit are installed correctly. Refer to <i>Cleaning the Printer</i> on page 5-6.</p>
<p>Dirt on the top edge or back of the paper</p> 	<p>If the problem is not solved even after printing several pages, clean the registration roller. Refer to <i>Cleaning the Printer</i> on page 5-6.</p> <p>If the problem is not solved after cleaning, call for service representative.</p>
<p>Printing incomplete or out of position</p> 	<p>Check that the printing settings are correct in the application software and the printer driver.</p> <hr/> <p>Check whether the problem is being caused by a PRESCRIBE command error. If the problem occurs only with a specific file or program, the most likely cause is an error in a parameter to a command or command syntax.</p>

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself.

If `Call service` or `Error.Power off.` is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action
Add paper MP Tray	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders). This message is displayed alternately with messages indicating the printer status, such as, <code>Ready</code> , <code>Please wait</code> , and <code>Processing</code> .
Call service F###	F### represents a controller error (#=0, 1, 2, ...). Call for service representative. The printer does not operate when this message is displayed.
Call service ####:0123456	#### represents a mechanical error (#=0, 1, 2, ...). Call for service representative. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. 0123456.
Canceling data	Displayed when data is being canceled.
Cassette # not loaded	The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 4 (bottom).
Close top cover	The top cover of the printer is open. Close the printer top cover.
Device busy	This message is displayed when <code>Remove Device</code> was selected while a USB flash memory was being used. The previous screen is displayed again 1 or 2 seconds.
Duplex disabled Press GO	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press [GO] to print onto one-side of the paper only. You can select an alternative paper size and type by pressing the Δ or ∇ . You can also press [MENU] and change the tray setting inside the menu, which will automatically cancel the error and output resumes. At the same time [ATTENTION] indicator will light up and [READY] indicator will start flashing.
Error.Power off. F###	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
Error.Power off. F000	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.
Install MK	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 100,000 pages of printing and requires professional servicing. Contact your service technician.

Message	Corrective Action
<div style="border: 1px solid black; padding: 5px;"> KPDL error ## Press GO </div>	<p>Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display >>Error Report from the menu system, and select On. Press [GO] to resume printing. You can abandon printing by pressing [Cancel].</p> <p>If <code>Auto Error Clear</code> is set to On, printing will be automatically resumed after a preset period of time.</p>
<div style="border: 1px solid black; padding: 5px;"> Load Cassette # (A4) / (PLAIN) </div>	<p>The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press [GO] to resume printing.</p> <p>If you want to print from a different paper source, press Δ or ∇ to display <code>Use alternative?</code> and you can change the source for paper feeding. After selecting a paper source and pressing [MENU], <code>Paper Settings ></code> appears. By pressing the Δ, the paper type settings menu appears. After setting the correct paper type, press [OK] and printing starts.</p>
<div style="border: 1px solid black; padding: 5px;"> Load MP Tray (A4) / (PLAIN) </div>	<p>There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press [GO] to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.)</p> <p>If you want to print from a different paper source, press Δ or ∇ to display <code>Use alternative?</code> and you can change the source for paper feeding. After selecting a paper source and pressing [MENU], <code>Paper Settings ></code> appears. By pressing the Δ, the paper type settings menu appears. After setting the correct paper type, press [OK] and printing starts.</p>
<div style="border: 1px solid black; padding: 5px;"> Low security </div>	<p>This message is displayed when <code>Low</code> was selected in Security Level.</p>
<div style="border: 1px solid black; padding: 5px;"> Memory overflow Press GO </div>	<p>The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press [GO] to resume printing. You can abandon printing by pressing [Cancel].</p> <p>If <code>Auto Error Clear</code> is set to On, printing will be automatically resumed after a preset period of time.</p>
<div style="border: 1px solid black; padding: 5px;"> Missing developer unit </div>	<p>The developer unit is either not installed or incorrectly inserted. Insert the developer unit securely.</p>
<div style="border: 1px solid black; padding: 5px;"> No multi copies Press GO </div>	<p>Multiple copies cannot be printed because the RAM disk is disabled is not installed. There is no available RAM disk space. Delete unnecessary files. Press [GO] to print error report.</p>
<div style="border: 1px solid black; padding: 5px;"> Paper jam ##### </div>	<p>A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, refer to <i>Clearing Paper Jams</i> on page 6-10.</p>
<div style="border: 1px solid black; padding: 5px;"> Paper path error </div>	<p>When one or more optional feeders are installed, this message will appear if any of the paper feeders or the printer cassette upper than the selected one is not properly closed.</p>
<div style="border: 1px solid black; padding: 5px;"> Print overrun Press GO </div>	<p>The print job transferred to the printer was too complex to print on a page. Press [GO] to resume printing. (A page break may be automatically inserted in some places.) You can abandon printing by pressing [Cancel].</p> <p>If <code>Auto Error Clear</code> is set to On, printing will be automatically resumed after a preset period of time.</p>
<div style="border: 1px solid black; padding: 5px;"> RAM disk error ## Press GO </div>	<p>A RAM disk error has occurred. Look at the error code given in place of ## and refer to <i>Storage Error Codes</i> on page 6-8. To ignore the RAM disk error, press [GO].</p>

Message	Corrective Action
Replace toner	Toner has run out in the toner container. Replace the toner container using a new toner kit. The printer does not operate when this message is displayed.
Toner low	Replace the toner container using a new toner kit.
Unknown toner installed	Displayed when the installed toner is not the original Kyocera product. Install original Kyocera toner.
Unknown toner PC	This message is displayed if the installed toner container's regional specification does not match the printer's. The printer will stop printing. Use only the Kyocera toner containers which are specifically intended for use in your country or region.
USB memory error ## Press GO	An error has occurred in the USB flash memory. Look at the error code given in place of ## and refer to <i>USB Flash Memory Errors</i> on page 6-8. To return the printer to the print-ready status, press [GO] .
Use alternative? Cassette 1	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to <i>Paper Feed Mode (Setting the paper feed source)</i> section in the <i>Advanced Operation Guide</i> .
Warning Waste toner box	The waste toner in the drum unit is almost full. Replace the maintenance kit.
Wrong ID	The ID or Password entered for the Security or Administrator function is not correct. Check the ID or Password. For more information, refer to <i>Security</i> section and <i>Admin (Administrator settings)</i> section in the <i>Advanced Operation Guide</i> .
Wrong Password	The password does not match the password set. Enter the correct password. For more information, refer to <i>Security</i> section and <i>Admin (Administrator settings)</i> section in the <i>Advanced Operation Guide</i> .

Storage Error Codes

USB Flash Memory Errors

Code	Meaning
01	The amount of data that can be saved at once has been exceeded. Split the large file into multiple smaller files. The USB flash memory is write protected. Remove the write protection. The USB flash memory is broken. Even if the problem is not solved, format the USB flash memory with the device or use the new USB flash memory compatible with the printer.
04	There is no available space. Delete unnecessary files, etc., in order to free up space.

RAM Disk Errors

Code	Meaning
01	Format error. Try turning the power off and on again.
02	RAM disk mode is <code>Off</code> . Turn RAM disk mode <code>On</code> from the operation panel.
04	No disk space. Purge unnecessary files.
05	Specified file is not on disk.
06	Insufficient printer memory to support the RAM disk system. Expand printer memory.

Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

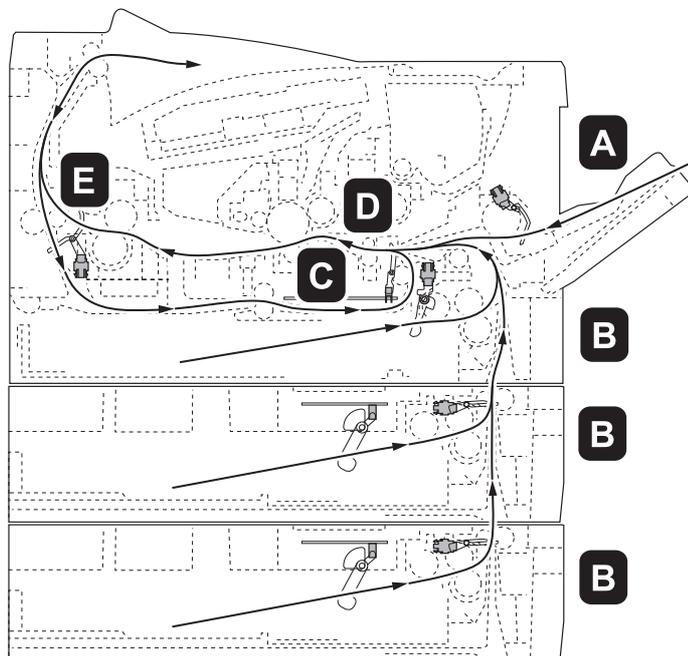
Indicator	Description
 Ready	<p>Flashing. Indicates an error that you can resolve. Refer to <i>Error Messages</i> on page 6-5.</p> <p>On. Indicates that the printer is ready. The printer prints the data it receives.</p> <p>Off. [Cancel] was pressed during <i>Ready</i> is displayed. Data can be received but will not be printed. To resume printing, press [Cancel] again.</p> <p>Printing is canceling.</p> <p>Also, indicates when paper jam occurred, toner has run out, cover is open, and so on.</p>
 Data	<p>Flashing. Indicates that a data is being received.</p> <p>On. Indicates either that data received is being processed before printing starts, or that data received is being written to or read from a RAM disk or USB flash memory.</p>
 Attention	<p>Flashing. Indicates that the printer is ready to print when <i>Please wait</i> is displayed. Also indicates that the corresponding paper cassette is not installed.</p> <p>Indicates that the printer requires maintenance such as adding paper, cleaning the printer, replacement of maintenance kit, preparing the toner container.</p> <p>On. Indicates when paper jam occurred, toner has run out, cover is open, and so on. If the message includes <i>Press GO</i>, press [GO] to resume printing.</p> <p>The ID or Password entered for the Security or Administrator is not correct. Check the ID or Password, and enter the correct ID or password.</p>

Clearing Paper Jams

If paper jams in the paper transport system, or no paper sheets are fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. Status Monitor or Command Center RX can indicate the location of the paper jam (the component where the paper jam has occurred). Remove the paper jam. After removing the paper jam, the printer will resume printing.

Possible Paper Jam Locations

The figure below shows the printer's paper paths including the optional paper feeder. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper jam message	Paper jam location	Description	Reference page
Paper jam MP Tray	A	Paper jam at the MP tray.	page 6-12
Paper jam Cassette 1	B	Paper jam at the paper cassettes. The cassette number can be 1.	page 6-13
Paper jam Duplexer	C	Paper jam inside the duplexer.	page 6-14

Paper jam message	Paper jam location	Description	Reference page
Paper jam Printer	D	Paper jam inside the printer.	<i>page 6-15</i>
Paper jam Rear Cover	E	Paper jam at the rear cover.	<i>page 6-17</i>

General Considerations for Clearing Jams

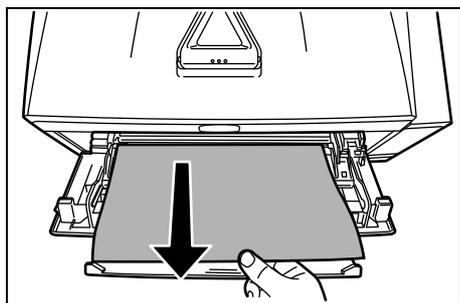
Bear in mind the following considerations when attempting paper jam removal:



CAUTION When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.

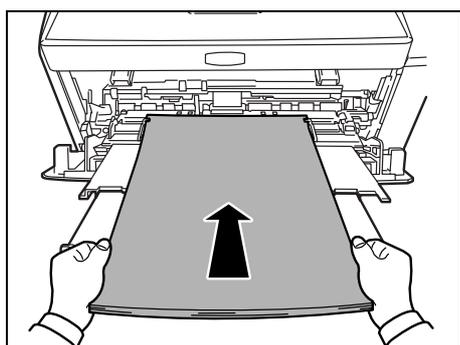
- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, or flip the paper stack over. The printer may have problems if paper jams recur after the paper is replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed, depends on the location of the paper jam.

MP Tray



- 1 Remove the paper jammed at the MP tray.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to *Inside the Printer* on page 6-15.



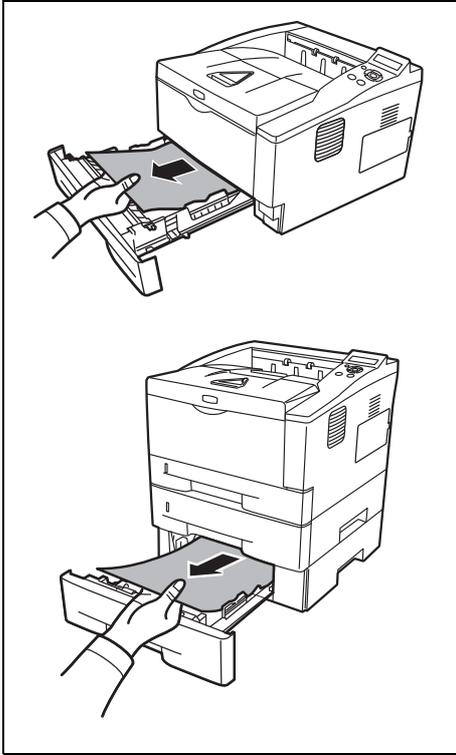
- 2 Reload the MP tray. Open and close the top cover to clear the error and the printer warms up and resumes printing.

Paper Cassette/Paper Feeder

- 1 Pull out the cassette or optional paper feeder.
- 2 Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to *Inside the Printer* on page 6-15.

 **Note** Check to see if paper is loaded correctly. If not, reload the paper.

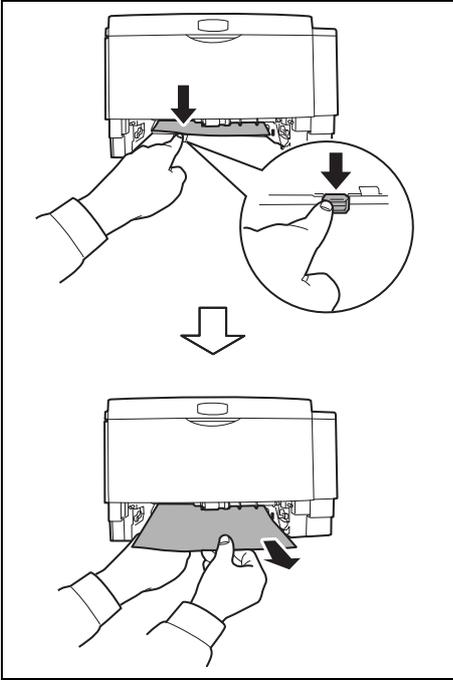


- 3 Push the cassette back in securely. The printer warms up and resumes printing.

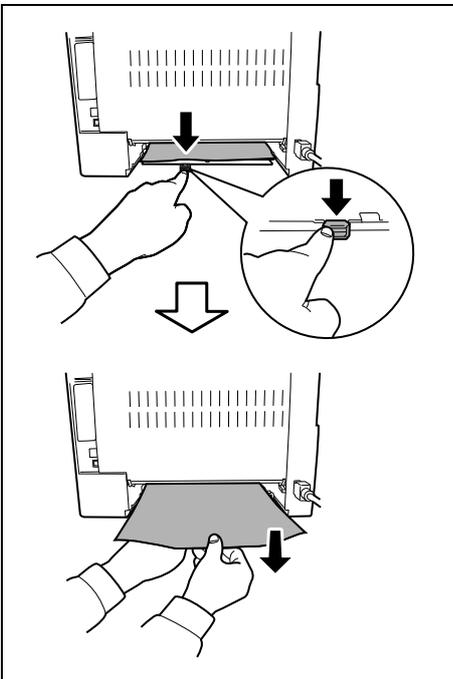
Duplexer

Paper is jammed in the duplexer. Remove the jammed paper using the procedure given below.

- 1 Pull the paper cassette all the way out of the printer.
- 2 Open the duplexer's cover in front of the printer and remove any jammed paper.

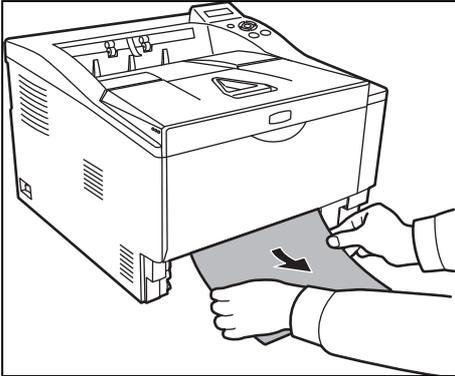


Open the duplexer's cover at the rear of the printer and remove any jammed paper.



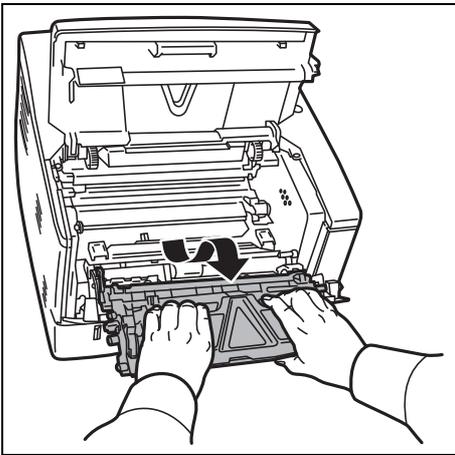
- 3 Push the cassette back in securely, and open and close the top cover to clear the error. The printer warms up and resumes printing.

Inside the Printer

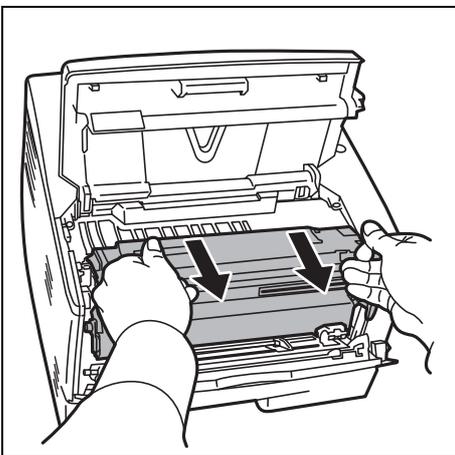


- 1 Pull the paper cassette all the way out of the printer. Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to step 2.



- 2 Open the top cover and front cover, and lift the developer unit together with the toner container out of the printer.



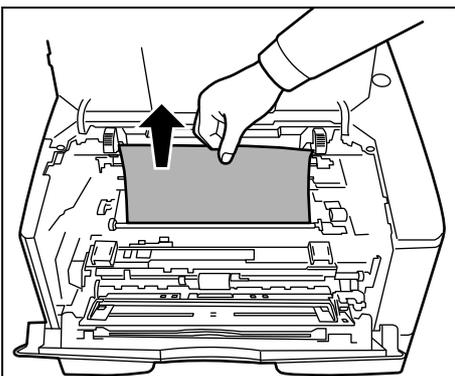
- 3 Remove the drum unit from the printer by holding the green levers with both hands.



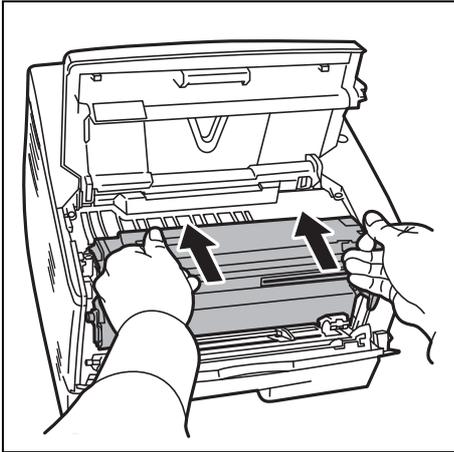
CAUTION The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.



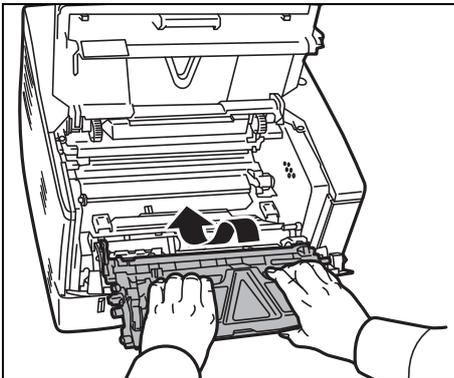
Note The drum is sensitive to light. Never expose the drum unit to light for more than five minutes.



- 4 If the jammed paper appears to be pinched by rollers, pull it along the normal running direction of the paper.

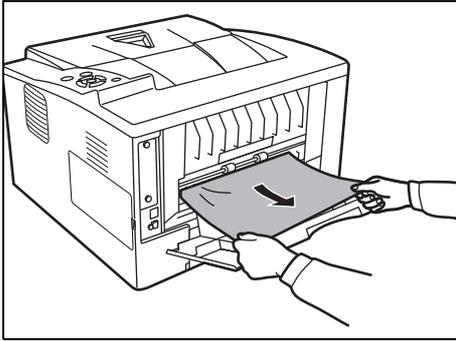


- 5 Return the drum unit to its position, aligning the guides at both ends with the slots in the printer.



- 6 Insert the developer unit together with the toner container, back into the machine. Close the top cover and the front cover. The printer warms up and resumes printing.

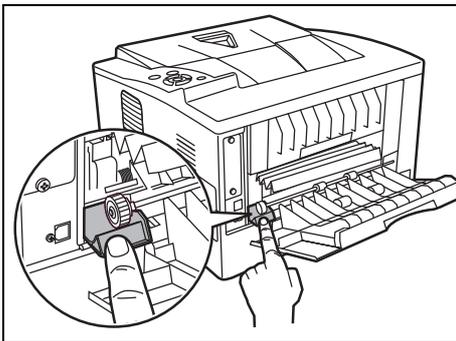
Rear Cover



- 1 Open the rear cover and remove the jammed paper by pulling it out.



CAUTION The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.



If the paper is jammed inside the fuser unit, open the fuser cover and remove the paper by pulling it out.

- 2 Close the rear cover, and open and close the top cover to clear the error. The printer warms up and resumes printing.

7 Using the Operation Panel

This chapter contains explanations on the following topics:

General Information	7-2
Understanding the Operation Panel	7-3
Using the Menu Selection System	7-8
Report Print	7-11
USB Memory (USB memory selection)	7-16
Counter (Viewing the counter value)	7-18
Paper Settings	7-19
Print Settings	7-26
Network (Network settings)	7-41
Optional Network (Optional Network settings)	7-50
Device Common (Selecting/Setting the common device)	7-55
Security	7-73
Administrator (Administrator settings)	7-81
Adjust/Maintenance (Adjust/Maintenance selection/setting)	7-84

General Information

This chapter provides the information you need to configure the Ecosys printer. In general you need to use the operation panel only to make default settings. You can make most changes to the printer settings using the printer driver through the application software.



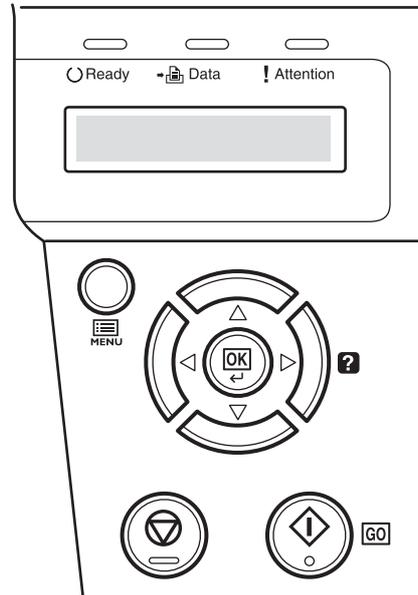
Note Changes to printer settings made using a software application override changes made using the operation panel.

You can also access the printer's various settings from a remote location, by using the control panel, the printer driver or other utilities such as the Status Monitor Utility. Other printer utilities can be installed using the DVD-ROM supplied with the printer.

The chapter describes the operation panel in detail, including its menus and the procedures for changing various printer settings.

Understanding the Operation Panel

The operation panel on the top of the printer has a 2-line by 21-character liquid crystal display (LCD), eight keys, and three indicators (LED).



Messages that appear on the display and functions of indicators and keys are explained in this chapter.

Message Display

The message display on the operation panel shows:

- Status information, the ten messages listed below which are displayed during normal operation.
- Error codes, when the printer requires the operator's attention; as explained in the *Operation Guide*.

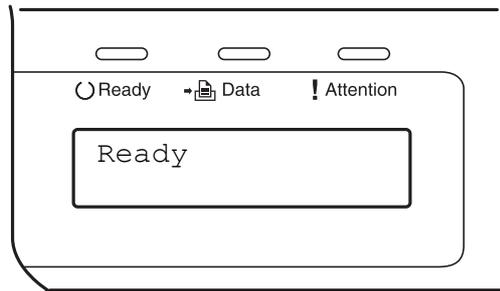
Status Information

Message	Meaning
Self test	The printer is performing self-diagnostics after power-up.
Please wait	The printer is warming up and is not ready. When the printer is switched on for the first time, this message will take several minutes.
Please wait (Adding toner)	Toner is currently being replenished. This message may be displayed during continuous printing of a large volume of pages which require a large amount of toner such as with photographs, etc.
Ready	The printer is ready to print.
Processing	The printer is receiving data to print. This is also shown when the printer is reading a USB flash memory or RAM disk.
Low Power	The printer is in Low Power Mode. The printer wakes from Low Power Mode whenever a print job is received. The printer then warms up and goes on-line. For details on Low Power Mode, refer to Low Power Timer (Low Power Mode timer timeout time) on page 7-64 .
Sleeping	The printer is in Auto Sleep. The printer wakes from Auto Sleep whenever a print job is received. The printer then warms up and goes on-line. For details on Auto Sleep, refer to Sleep Timer (Sleep timer timeout time) on page 7-64 .
Canceling data	Jobs inside the printer are being canceled. To cancel a job, refer to Canceling a Printing Job on page 7-6 .

Error Codes

Refer to the *Troubleshooting* section in the *Operation Guide*.

Indicators in Message Display



Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

Indicator	Description
 Ready	<p>Flashing. Indicates an error that you can resolve. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i>.</p> <p>On. Indicates that the printer is ready. The printer prints the data it receives.</p> <p>Off. [Cancel] was pressed during <i>Ready</i> is displayed. Data can be received but will not be printed. To resume printing, press [Cancel] again. Printing is canceling.</p> <p>Also, indicates when paper jam occurred, toner has run out, cover is open, and so on. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i>.</p>
 Data	<p>Flashing. Indicates that a data is being received.</p> <p>On. Indicates either that data received is being processed before printing starts, or that data received is being written to or read from a RAM disk or USB flash memory.</p>
 Attention	<p>Flashing. Indicates that the printer is ready to print when <i>Please wait</i> is displayed. Also indicates that the corresponding paper cassette is not installed. Indicates that the printer requires maintenance such as adding paper, cleaning the printer, preparing the toner container.</p> <p>On. Indicates when paper jam occurred, toner has run out, cover is open, and so on. If the message includes <i>Press GO</i>, press [GO] to resume printing. For details, refer to the <i>Troubleshooting</i> section in the <i>Operation Guide</i>.</p> <p>The ID or Password entered for the Security or Administrator function is not correct. Check the ID or Password, and enter the correct ID or password.</p>

Keys

The operation panel keys are used to configure the printer operation. Note that certain keys have a secondary function.

GO Key



Use this key to:

- Recover from certain errors.
- Recover from Auto Sleep mode.

Cancel Key



This key is used to:

- Cancel a printing job.
- Stop the alarm sound.
- Reset numeric values or cancel a setting procedure while using menu system.

Canceling a Printing Job

- 1 While the printer displays `Processing`, press **[Cancel]**.

`Print Cancel?` appears on the message display followed by the job name currently in progress.

- 2 Press \triangle or ∇ to display the desired job and **[OK]**.

`Canceling data` appears on the message display and printing stops after the current page is printed.

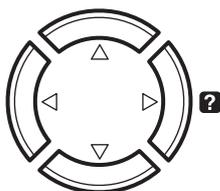
MENU Key



[MENU] lets you enter the menu system to change the setup and printing environment of the printer.

Pressing this key during a menu selection will terminate the selection and return the printer to the normal operation.

Cursor Keys



The four cursor keys are used in the menu system to access an item or enter numeric values. Use \triangle and ∇ to change menus, and \triangleleft and \triangleright to move to the sub menu.

The cursor key with the question mark (**?**) may be pressed when the paper jam message has appeared on the message display. A help message will then appear to facilitate jam clearing in the location.

When `Use alternative?` is shown in the message display, use the \triangle and ∇ key to select the paper source.

OK Key



This key is used to:

- Finalize settings of numeric values and other selections.
- Set the paper source when `Use alternative?` is shown in the message display.

Using the Menu Selection System

Menu Selection System

This section explains how to use the menu selection system. **[MENU]** on the operation panel allows you to use the menu to configure the printer settings to your specific needs. Settings can be made when *Ready*, *Please wait* or *Processing* is on the printer message display.

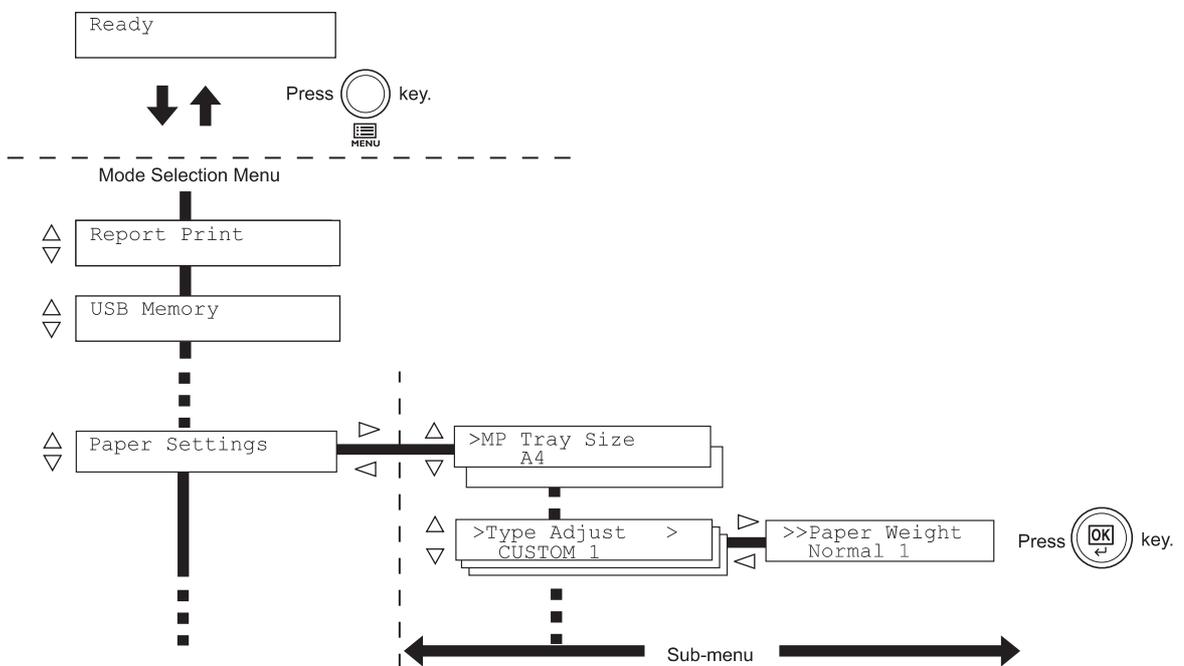


Note Settings that are received from application software and the printer driver will take priority over settings made in the operation panel.

Entering the Mode Selection Menu

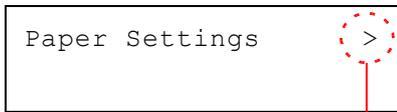
Press **[MENU]** when *Ready*, *Please wait* or *Processing* is indicated on the printer message display.

The mode selection menu is displayed.



Selecting a Menu

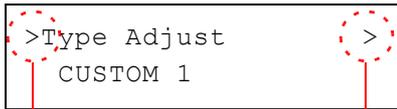
The mode selection menu is hierarchical. Press Δ or ∇ to display the desired menu.



Indicates that there is a sub-menu

If the selected menu has a sub-menu, > is displayed after the menu.

Press \triangleright to move to the sub-menu or \triangleleft to go back.

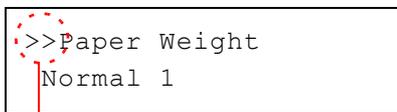


Indicates that this is the sub-menu

Indicates that there is another sub-menu

> is displayed before the sub-menu.

Press \triangleright to move to another sub-menu or \triangleleft to go back.



Indicates that this is the second sub-menu

>> is displayed before the second sub-menu.

Setting a Menu

Select the desired menu and press **[OK]** to set or change the configuration.

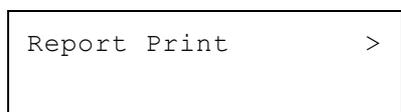
Press Δ or ∇ to display the desired item and **[OK]** to finalize the value or selections set.

Cancelling Menu Selection

If you press **[MENU]** when a menu is selected, the message display returns to *Ready*.

Setting a Mode Selection Menu

This section explains the setting procedures used for each menu item in the mode selection menu.



- 1 While the printer displays `Ready, Please wait` and `Processing`, press **[MENU]**. The mode selection menu is displayed. (For example :`Report Print`)
- 2 Each time you press Δ or ∇ , the selection changes.
 - Report Print
 - USB Memory
 - Counter
 - Paper Settings
 - Print Settings
 - Network
 - Optional Network
 - Device Common
 - Security
 - Administrator
 - Adjust/Maintenance

The `Optional Network` option appears when the network interface kit is installed.



Note If you use the mode first selected when the printer is turned on, `Report Print` is displayed. For the second and subsequent times, the last menu option you selected the previous time is displayed.

Report Print

The printer prints the report. Report Print includes the following items:

- Print Menu Map
- Print Status Page
- Print Fonts List
- Print RAM Disk File List

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Report Print >` appears.

```
Report Print >
```

Note that menus shown in the list may vary depending on which optional units installed in the printer.

Print Menu Map

The printer prints a full list of the menu selection system menu map.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 `>Print Menu Map` appears. In other displays, press Δ or ∇ repeatedly until the map appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]**. The message `Processing` appears and the printer prints a Menu Map.

```
>Print Menu Map ?
```


Print Status Page

You can check the printer's current status, including available memory space and option settings by printing a status page.

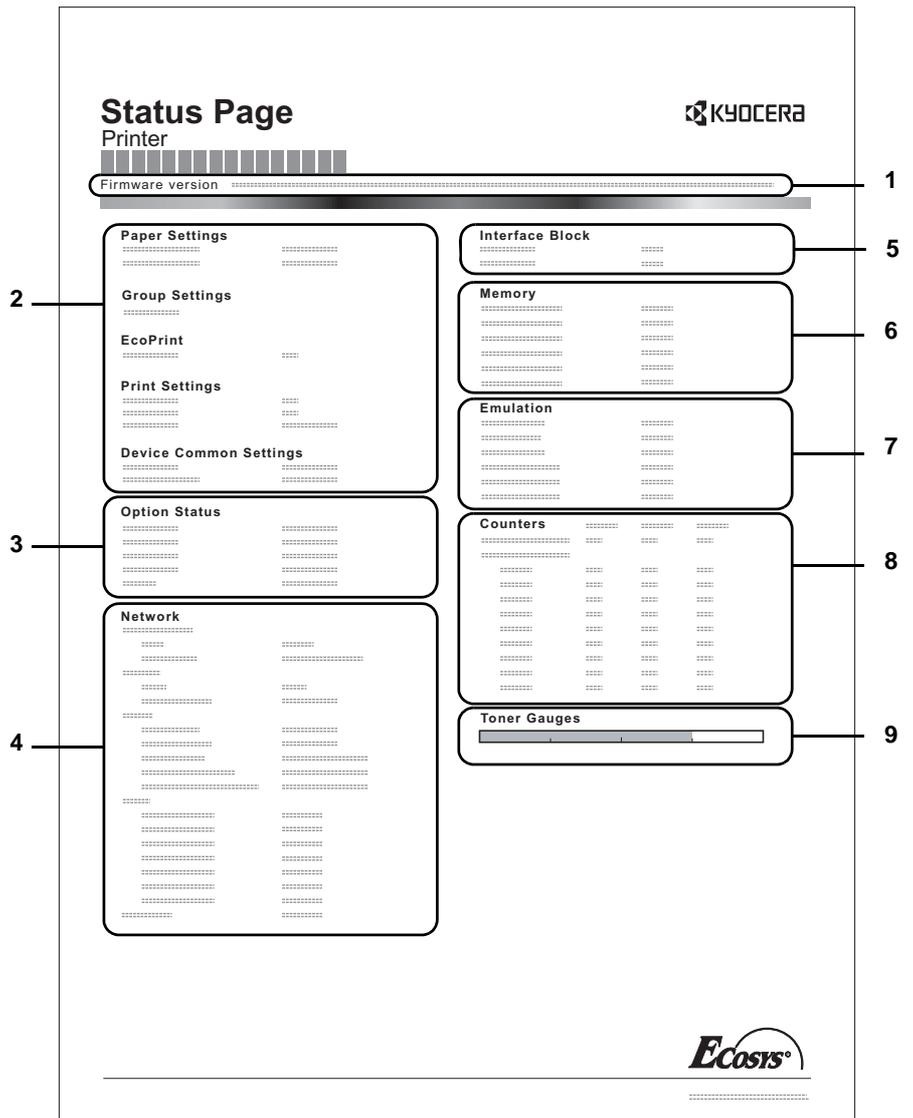
- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Status Page` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a status page.

>Print Status Page ?

For a sample status page and its full description, refer to the next section *Understanding the Status Page*.

Understanding the Status Page

The numbers in the following diagram refer the items explained below the diagram. The items and values on the status page may vary depending on the printer's firmware version.



1 Firmware Version

This item shows the version and release date of the printer firmware.

2 Printer Settings Information

This item shows various printer settings for hardware-related items:

- Paper Settings
- Group Settings
- Print Settings
- EcoPrint
- Device Common Settings

3 Installed Options

This item shows the options installed in the printer:

- Paper Feeder

4 Network Status

This item shows the IP address, subnet mask address, and default gateway address for the network interface card in the printer.

5 Interface Information

This information shows the block status for items including the USB memory slot, USB interface and option interface.

6 Memory

This item shows:

- Standard memory in the printer
- Option memory slot status in megabytes
- Total memory in the printer
- Current status of the RAM disk

7 Emulation

This item shows all available emulations of the printer. The default setting for North America is KPDL (AUTO) emulation. The default setting for all other regions is PCL 6 emulation. The emulations are:

- PCL 6
- KPDL (AUTO)
- KPDL
- Line Printer
- IBM Proprinter
- EPSON LQ-850

8 Page Information

This item shows the page related items:

- Total printed page count
- Total page count of each paper size

9 Consumable Status

This item shows the approximate level of remaining toner. When the value is 100, the toner container is full. The closer to 0, the smaller the amount of remaining toner.

Print Fonts List

To help you decide in selecting a font, you can printout lists of the internal fonts or the optional fonts.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Fonts List` appears.
- 3 Press **[OK]**. A question mark (?) appears.

```
>Print Fonts List ?
```

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of fonts with a sample and font ID (number) for each of them.

Print RAM Disk File List

This allows you to print a list of the files on the RAM disk.

IMPORTANT This is displayed when RAM disk mode is enabled.

- 1 Press \triangleright while `Report Print >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print RAM Disk File List` appears.
- 3 Press **[OK]**. A question mark (?) appears.

```
>Print RAM Disk  
File List ?
```

- 4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a RAM disk.

USB Memory (USB memory selection)

This specifies the settings for removing the USB memory and printing USB memory content. The `USB Memory` menu automatically appears when you install the USB memory.

IMPORTANT This message is displayed only when the USB host block is set to `Unblock`. For more information, please refer to ***I/F Block (Interface (external device) block setting)*** on page **7-74**

The options available in USB Memory are as follows:

- Print File (Printing a file)
Copies (Number of copies)
Paper Source (Selecting the paper feed source)
- Remove Device (Removing the USB memory)
- Print File List (Printing a list of the files on a USB memory)

1 Press **[MENU]**.

2 Press Δ or ∇ repeatedly until `USB Memory >` appears.

Note that menus shown in the list may vary depending on which optional units installed in the printer.

```
USB Memory >
```

Print File (Printing a file)

You can use this to specify printing for files in the USB memory.

1 Press \triangleright while `USB Memory >` is displayed.

2 `>Print File` appears. In other displays, press Δ or ∇ repeatedly until the map appears.

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. The folder or file appears.

(For example: `Folder 1`)

Each time you press Δ or ∇ , the next folder or file appears in succession.

```
/
/00:Folder 1
```

To view lower-level folders or files, press \triangleright .

(For example: `Folder 2`)

```
/00:Folder 1
/01:Folder 2
```

To view folders or files on still lower levels, press \triangleright .

(For example: `File 3`)

```
/.../01:Folder 2
02:File 3
```

IMPORTANT Note also that up to 3 levels of folders or files are displayed. It might take some time before the folder or file name appears, depending on the size of the USB memory or the number of files.

You can move between the folder levels by pressing Δ and ∇ or \triangleleft and \triangleright .

5 Press **[OK]**. A question mark (?) appears.

(For example: `File 3`)

```
/.../01:Folder 2
? 02:File 3
```

6 Press **[OK]** again. `Copies` appears.

```
Copies
001
```

Copies (Number of copies)

Sets the number of copies printed of the specified file in USB memory.

IMPORTANT To use this feature, the RAM disk must be set to On.

```
Copies          010
```

1 While `Copies` in step 5 above is displayed, press Δ and ∇ or \triangleleft and \triangleright to display the number of copies. (E.g.: 10)

```
Paper Source  
? Cassette 1
```

2 Press **[OK]**. `Paper Source` and a question mark (?) appears.

Paper Source (Selecting the paper feed source)

Sets the paper used for printing the specified file in USB memory.

```
Paper Source  
? Cassette 2
```

1 While `Paper Source` in step 2 above is displayed, press Δ and ∇ or \triangleleft and \triangleright repeatedly until the paper source appears. (For example : `Cassette 2`)

Note that menus shown in the list may vary depending on which optional units installed in the printer.

2 Press **[OK]**. The message `Processing` appears and the printer prints a file stored in a USB memory.

Remove Device (Removing the USB memory)

Specifies the setting for USB memory removal.

```
>Remove Device ?
```

1 Press \triangleright while `USB Memory >` is displayed.

2 Press Δ or ∇ repeatedly until `>Remove Device` appears.

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. Menu display ends and the USB memory device can be removed.

Print File List (Printing a list of the files on a USB memory)

This allows you to print a list of the files on a USB memory device.

```
>Print File List ?
```

1 Press \triangleright while `USB Memory >` is displayed.

2 Press Δ or ∇ repeatedly until `>Print File List` appears.

3 Press **[OK]**. A question mark (?) appears.

4 Press **[OK]** again. The message `Processing` appears and the printer prints a list of files stored in a USB memory.

Counter (Viewing the counter value)

Displays the number of pages printed.

The options available in Counter are as follows:

- Printed Pages (Displaying the total printed pages)

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Counter >` appears.

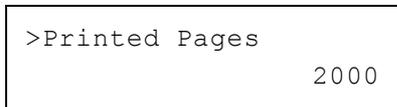


A rectangular box representing a screen display. The text "Counter" is on the left and ">" is on the right, with a small dot below "Counter".

Printed Pages (Displaying the total printed pages)

This only displays the total number of pages printed. You cannot change the displayed number.

- 1 Press \triangleright while `Counter >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Printed Pages` appears. The total number of pages printed is displayed. (E.g.: 2000)



A rectangular box representing a screen display. The text ">Printed Pages" is on the left and "2000" is on the right.

- 3 Press **[MENU]**. The display returns to `Ready`.

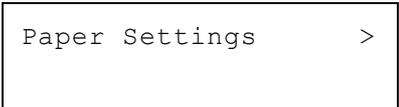
Paper Settings

This sets the paper size and type for the MP tray and cassettes from which paper is supplied.

The options available in Paper Settings are as follows:

- MP Tray Size (Setting MP tray paper size)
- MP Tray Type (Setting the MP tray paper type)
- Cassette (1 to 3) Size (Setting the cassette paper size)
- Cassette (1 to 3) Type (Setting the cassette paper type)
- Type Adjust (Creating custom paper type)
- Reset Type Adjust (Resetting the custom paper type)

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Paper Settings >` appears.



Paper Settings >

MP Tray Size (Setting MP tray paper size)

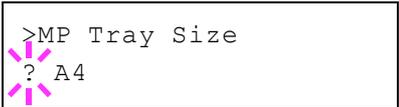
When you use the MP tray, you should set the MP tray size to the paper size that is used to format the job to print. If the sizes do not match, printing will not be performed on the correct size paper.

The default setting is `Letter` size for the U.S. and Canada and `A4` for other countries. For more information about the paper sizes that you can feed from the MP tray, refer to **Paper Specifications** on page 2-2.



Note Feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.

- 1 Press \triangleright while `Paper Settings >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>MP Tray Size` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



>MP Tray Size
? A4

- 4 Press Δ or ∇ to display the desired paper size. The message display toggles through the following paper sizes:

Envelope Monarch
Envelope #10
Envelope DL
Envelope C5
Executive
Letter
Legal
A4
B5
A5
A6
B6
Envelope #9
Envelope #6
ISO B5
Custom
Hagaki

Oufuku Hagaki
Oficio II
216x340mm
16K
Statement
Folio
Youkei 2
Youkei 4

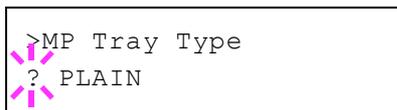
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

MP Tray Type (Setting the MP tray paper type)

You can use this to set the paper type that can be supplied from the MP tray. The default setting is PLAIN.

For more information about paper types that you can feed from the MP tray, refer to **Paper Specifications** on page 2-2.

- 1 Press \triangleright while Paper Settings \triangleright is displayed.
- 2 Press \triangle or ∇ repeatedly until \triangleright MP Tray Type appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Press \triangle or ∇ to display the desired paper type. The message display toggles through the following paper types:

PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
THICK
HIGH QUALITY
CUSTOM 1 (to 8)



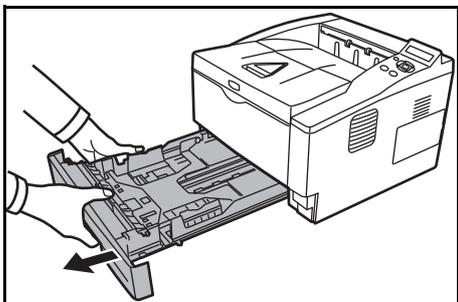
Note You can define any paper type and store that definition in the printer. For more information, refer to **Type Adjust (Creating custom paper type)** on page 7-24.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Cassette (1 to 3) Size (Setting the cassette paper size)

To set the size for the paper cassette, load the paper into a paper cassette, adjust the paper size, and select the paper size from the operation panel.

If the PF-100 optional paper feeder is installed, use the same procedure to load paper into the paper feeder cassettes.



1 Pull the cassette out of the printer.

2 Adjust the position of the width guides located on the left and right sides of the cassette. Press the release button on the left guide and slide the guides to the paper size required, and load the paper into the cassette.

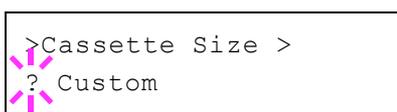
Proceed to the next section to select the paper size from the operation panel.

Setting the Paper Size from the Operation Panel

Use the operation panel to set the size of paper loaded in the cassette on the printer.

1 Press \triangleright while `Paper Settings >` is displayed.

2 Press \triangle or ∇ repeatedly until `>Cassette Size >` appears. If optional paper feeders are added, `Cassette1 Size` will appear for the standard paper cassette and `Cassette2 Size`, and `Cassette3 Size` will appear for the optional paper feeders.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Press \triangle or ∇ to display the desired paper size. The message display toggles through the following paper sizes:

```
Envelope C5
Executive
Letter
Legal
A4
B5
A5
A6
ISO B5
Custom
Oficio II
216x340mm
16K
```

Statement
Folio



Note A6 and Statement are displayed for Cassette Size or Cassette 1 Size.

- 5 When the desired paper size is displayed, press **[OK]**. The paper size is set for the paper cassette.

If you selected `Custom` in step 4, be sure to set the unit of measurement and the dimensions of the paper as described in the following sections.

Select the units of measurement as described in the next section.

Unit (Selecting the unit of measurement)

- 1 Press \triangleright .
- 2 Press \triangle or ∇ repeatedly until `>>Unit` appears. The unit of measurement can be selected between millimeters and inches. The current unit of measurement is displayed (the default setting is `mm`).
- 3 Press **[OK]**. A blinking question mark (?) appears.

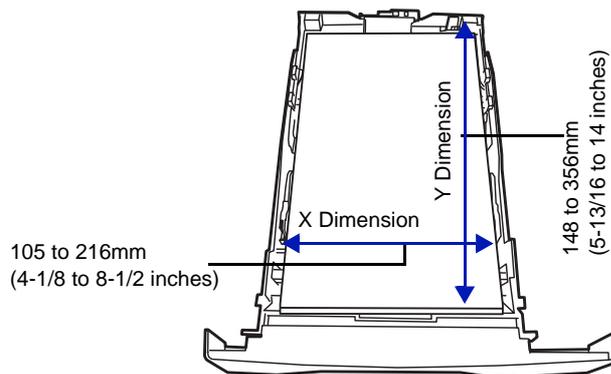


- 4 Select `mm` or `inch` using \triangle or ∇ .
- 5 Press **[OK]**.

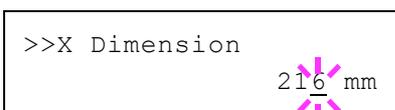
Set the dimensions of the paper as described in the next section.

Entering the Width and Length

Enter the paper size for X Dimension and Y Dimension as shown in the figure.



- 1 When the unit of measurement is set, press ∇ . `>>X Dimension` appears (the paper width setting).
- 2 Press **[OK]**. A blinking cursor (`_`) appears.



- 3 Press Δ or ∇ to increase or decrease the value of the figure where the cursor is blinking and display the desired width. Acceptable paper widths are as follows:
 - Cassette: 105 to 216 mm (4.13 to 8.5 inches)
 - Paper Feeder PF-100 (optional): 148 to 216 mm (5.83 to 8.5 inches)
- 4 Display the paper width and press **[OK]**.
- 5 When the width is set, press ∇ . $\gg Y$ Dimension appears (the paper length setting). Set the desired length in the same way as the width. Acceptable paper lengths are as follows:
 - Cassette: 148 to 356 mm (5.83 to 14.02 inches)
 - Paper Feeder PF-100 (optional): 210 to 356 mm (8.27 to 14.02 inches)
- 6 Display the paper length, press **[OK]**.
- 7 Press **[MENU]**. The display returns to Ready.

Cassette (1 to 3) Type (Setting the cassette paper type)

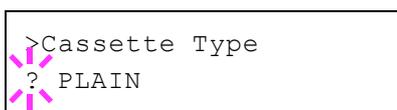
By setting a paper type (plain, recycled, etc.) for the paper cassette, you can automatically select the paper in the paper cassette according to the paper type you command on the printer driver. The default setting is plain paper for all paper cassettes.

If the PF-100 optional paper feeder is installed, use the same procedure to setting the cassette paper type.

For more information about paper types that you can feed from the paper cassette, refer to **Paper Specifications** on page 2-2.

- 1 Press \triangleright while Paper Settings \gg is displayed.
- 2 Press Δ or ∇ repeatedly until \gg Cassette Type appears.

If optional paper feeders are added, Cassette 1 Type will appear for the standard paper cassette and Cassette 2 Type, and Cassette 3 Type will appear for the optional paper feeders.
- 3 To change paper type, press **[OK]**. A blinking question mark (?) appears.



- 4 Press Δ or ∇ to display the desired paper type. The message display toggles through the following paper types:
 - PLAIN
 - PREPRINTED
 - BOND
 - RECYCLED
 - ROUGH
 - LETTERHEAD
 - COLOR
 - PREPUNCHED
 - HIGH QUALITY
 - CUSTOM 1 (to 8)

 **Note** You can define any paper type and store that definition in the printer. For more information, refer to **Type Adjust (Creating custom paper type)** on page 7-24.

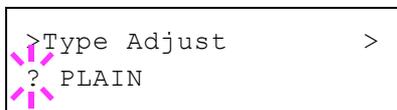
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Type Adjust (Creating custom paper type)

The following describes the procedure used to set a user-defined paper type for the printer. Eight custom user settings may be registered. After having been set, any of these may be called up when setting the paper type for a paper source.

The paper weight and duplex path can be set (refer to **Paper Weight (Setting the paper weight)** on page 7-24, and **Duplex Path (Setting the duplex path)** on page 7-25) after selecting the paper type to be customized as follows. For how to reset the customized settings, refer to **Reset Type Adjust (Resetting the custom paper type)** on page 7-25.

- 1 Press \triangleright while Paper Settings > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Type Adjust > appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>Type Adjust >
? PLAIN
```

- 4 Press \triangle or ∇ to display the desired paper type. The display changes as shown below.

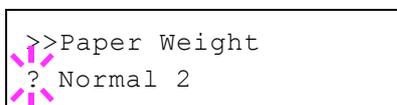
```
PLAIN
TRANSPARENCY
PREPRINTED
LABELS
BOND
RECYCLED
VELLUM
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
ENVELOPE
CARDSTOCK
THICK
HIGH QUALITY
CUSTOM 1 (to 8)
```

- 5 Press **[OK]**.
- 6 Press \triangleright and proceed to the next step **Paper Weight (Setting the paper weight)**.

Paper Weight (Setting the paper weight)

You can set the paper thickness for your custom paper type to be customized. The default setting is Normal 2.

- 1 Display the custom paper type (refer to **Type Adjust (Creating custom paper type)** on page 7-24) and press \triangleright .
- 2 Press \triangle or ∇ repeatedly until >>Paper Weight appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>>Paper Weight
? Normal 2
```

- 4 Press Δ or ∇ to display the desired paper thickness. The display changes as shown below. For details of the default setting for each paper type, refer to **Paper Specifications** on page 2-2.

```

Light
Normal 1
Normal 2
Normal 3
Heavy 1
Heavy 2
Heavy 3
Extra Heavy

```

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Duplex Path (Setting the duplex path)

- 1 Display the custom paper type (refer to **Type Adjust (Creating custom paper type)** on page 7-24) and press \triangleright .
- 2 Press Δ or ∇ repeatedly until >>Duplex Path appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

```

>>>Duplex Path
? Enable

```

- 4 Select Enable or Disable using Δ or ∇ . For details of the default setting for each paper type, refer to **Paper Specifications** on page 2-2.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

The custom paper type setting is completed.

Reset Type Adjust (Resetting the custom paper type)

Reset all the custom paper type that was set in **Type Adjust (Creating custom paper type)** on page 7-24.

- 1 Press \triangleright while Paper Settings > is displayed.
- 2 Press Δ or ∇ repeatedly until >Reset Type Adjust appears.
- 3 Press **[OK]**. A question mark (?) appears.

```

>Reset Type Adjust ?

```

- 4 Press **[OK]** again. All customized paper types will be reset to the default. The display returns to Ready.

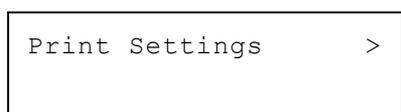
Print Settings

These settings specify printing parameters such as the print quality used for printing (Normal or Fine), the number of copies, reduced printing and the page orientation.

The options available in Print Settings are as follows:

- Paper Source (Selecting the paper feed source)
- Auto Cass. Change (Auto Cassette Change setting)
- MP Tray Priority (The settings for priority paper feed from the MP tray)
- Paper Feed Mode (Setting the paper feed source)
- Duplex (Duplex printing)
- Override A4/LT (Overriding difference between A4 and Letter)
- Emulation (Setting the emulation)
- Font Select (Selecting the default font)
- Code Set (Setting the code set)
- Print Quality (Setting print quality)
- Page Set (Setting pagination)
- Job Name (The Job Name display settings)

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Print Settings >` appears.

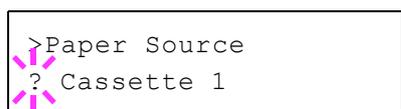


```
Print Settings >
```

Paper Source (Selecting the paper feed source)

You can select the paper source, from which the printer feeds paper as the default. If an optional paper feeder(s) is installed, it is also available for the default paper source.

- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Paper Source` appears.
- 3 To change the current paper feed source, press **[OK]**. A blinking question mark (?) appears.



```
>Paper Source  
? Cassette 1
```

- 4 Press Δ or ∇ to display the desired paper feed source. The message display toggles through the following paper feed sources, depending on the installed optional paper feeders (from the top most paper cassette to the bottom paper cassette):

```
MP tray  
Cassette 1  
Cassette 2  
Cassette 3
```

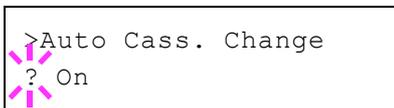
Cassettes 2 and 3 are available for selection when the optional paper feeders are installed.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Auto Cass. Change (Auto Cassette Change setting)

You can select the following actions when the paper runs out in the paper source while printing. By default, this feature is *On*.

Off	The printer displays <i>Load Cassette #</i> (# is a cassette number) or <i>Load MP Tray</i> , and stops printing. Load the paper according to the paper source displayed to resume printing. To print from the other paper cassette, press Δ or ∇ to display <i>Use alternative?</i> , press Δ or ∇ to select the desired paper source, and then press [GO] .
On	The printer continues printing automatically when the other paper cassette contains the same paper as the currently-used paper cassette.



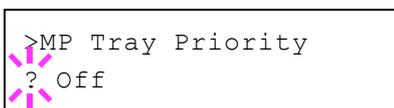
- 1 Press \triangleright while *Print Settings >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>Auto Cass. Change* appears.
- 3 To change the current paper feed source, press **[OK]**. A blinking question mark (?) appears.
- 4 Select *On* or *Off* using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.



Note You can also configure the Auto Cassette Change in the Command Center RX. Access to the Command Center RX, and then go to **Basic > Defaults > Device Defaults** page. For more information on access to the Command Center RX, refer to the *Command Center RX User Guide*.

MP Tray Priority (The settings for priority paper feed from the MP tray)

If paper is set in the MP Tray then it is possible for priority to be given to that MP tray in the paper feed. The default setting is *Off*.

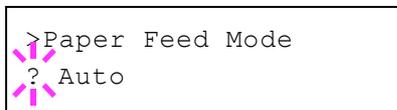


- 1 Press \triangleright while *Print Settings >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>MP Tray Priority* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press Δ or ∇ to select the desired MP tray priority mode. The list shows the following MP tray priority mode:
 - Off* (The printer driver settings are followed.)
 - Auto Feed* (If *Auto* is selected in the printer driver and there is paper in the MP tray then the paper feed will be from the MP tray.)
 - Always* (If there is paper in the MP tray then the paper feed will be from the MP tray regardless of what is set in the printer driver.)
- 5 Press **[OK]**.

- 6 Press **[MENU]**. The display returns to `Ready`.

Paper Feed Mode (Setting the paper feed source)

This mode specifies how the paper should be fed once the paper feed source and paper type have been chosen. If `Auto` is selected, the printer searches for a paper feed source that matches the paper size and type, and paper is then delivered from that source. If `Fixed` is selected and there is no matching paper feed source, handling proceeds as specified by `Paper Mismatch for Error Handling`. For details on paper feeding when `Fixed` is selected, refer to ***Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)*** on page 7-61. The default setting is `Auto`. To change the settings, follow the steps described below.



- 1 Press `▷` while `Print Settings >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>Paper Feed Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press `△` or `▽` until `Auto` or `Fixed` appears.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

When the Paper Runs Out During Printing

When `Paper Feed Mode` is set to `Fixed`, if the paper in the cassette runs out during printing, `Load Cassette 1` is displayed and the printer stands by. In this event, either replenish the paper in the empty cassette or use the procedure below to print from another paper source.

- 1 While `Load Cassette 1` is displayed, press `△` or `▽` repeatedly until `Use alternative?` appears.
- 2 Press `△` or `▽` repeatedly until the desired paper source and size appears.
Each time you press `△` or `▽`, another paper cassette or the paper size that can currently be fed from the MP tray appears.
- 3 Press **[OK]**. Printing continues.

Duplex (Duplex printing)

Using the duplexer, you can automatically print on both sides of the paper. The duplexer is mounted underneath the printer.

Duplex printing is available for the following paper types:

PLAIN
PREPRINTED
BOND
RECYCLED
ROUGH
LETTERHEAD
COLOR
PREPUNCHED
THICK
HIGH QUALITY

Activating the duplexer is done by selecting either short edge or long edge binding mode.

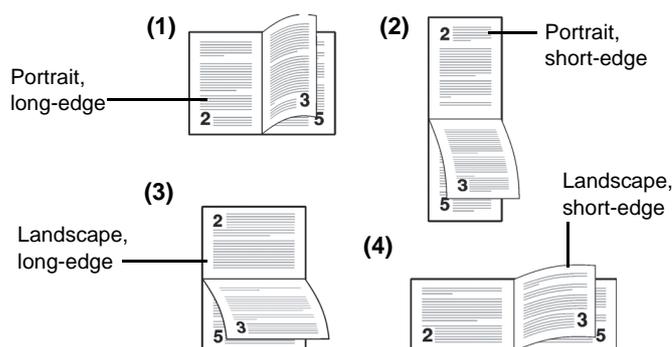


Note Duplex printing can be also performed from the MP tray. If the paper to be fed from the MP tray does not match the paper size and paper type of the current paper feed source cassette, a paper jam may occur.

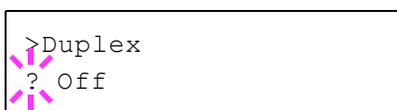
Binding Modes

Binding refers to the manner in which printed pages of paper are joined together (by gluing, stitching, etc.) in book form. The two possible types of binding are: long-edge binding, in which pages are joined together along their long edge; and short-edge binding, in which they are joined together along their short edge. In selecting a binding type, you must also consider the orientation of the printed page. You can use long-edge or short-edge binding with either landscape or portrait printing.

Depending on the binding type and print orientation, the duplexer provides four types of binding. These are: (1) portrait, long-edge, (2) portrait, short edge, (3) landscape, long-edge, and (4) landscape, short-edge. The figure below shows these binding methods.



- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Duplex` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Press Δ or ∇ to display the desired binding mode. The message display toggles through the following:

Off (default)
Short edge bind
Long edge bind

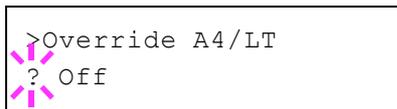
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Override A4/LT (Overriding difference between A4 and Letter)

When the *Override A4/LT* is turned *On* using the operation panel, the printer ignores the difference between A4 and Letter paper sizes. Printing is performed without an error message even if the actual paper size in the current cassette differs from the paper size formatting the job.

By default, this feature is *Off*.

- 1 Press \triangleright while *Print Settings >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>Override A4/LT* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



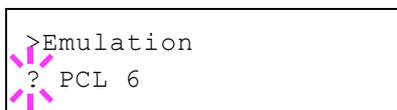
```
>Override A4/LT
? Off
```

- 4 Select *On* or *Off* using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Emulation (Setting the emulation)

You can change the emulation mode for the current interface. Use the procedure below to select the mode.

- 1 Press \triangleright while *Print Settings >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>Emulation >* appears on the message display. One of the emulation modes appears, indicating the emulation currently in use.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>Emulation
? PCL 6
```

- 4 Press Δ or ∇ repeatedly until the desired emulation mode is displayed.

PCL 6
KPDL
KPDL (AUTO)
Line Printer
IBM Proprinter
EPSON LQ-850



Note The default setting for North America is *KPDL (AUTO)* emulation. The default setting for all other regions is *PCL 6* emulation.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Alternative Emulation for KPD L Emulation

KPD L is Kyocera's implementation of the PostScript language. The KPD L (AUTO) emulation enables the printer to automatically change the emulation mode according to the data received when printing.

In addition to KPD L (AUTO) emulation, you can use the operation panel to set another emulation mode that is used very often. The default setting is PCL 6.

```
>Emulation
? PCL 6
```

```
>Emulation
? KPD L (AUTO)
```

```
>>Alt. Emulation
PCL 6
```

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `>Emulation >` appears on the message display.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Press Δ or ∇ repeatedly until `KPD L (AUTO)` appears.
- 5 Press **[OK]**.
- 6 Press \triangleright . When `>>Alt. Emulation` is displayed, press Δ or ∇ . The names of alternative emulations appear - PCL 6, Line Printer, IBM Proprinter or EPSON LQ-850.
- 7 Press **[OK]**. A blinking question mark (?) appears.
- 8 Press Δ or ∇ repeatedly until the desired alternative emulation appears.
- 9 Press **[OK]**.
- 10 Press **[MENU]**. The display returns to Ready.

Error Report (Printing KPD L errors)

The printer can print error descriptions when printing error occurs during KPD L emulation.



Note The default setting for North America is *Off*. The default setting for all other regions is *On*.

```
>Emulation
? PCL 6
```

```
>Emulation >
? KPD L (AUTO)
```

- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Emulation >` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `KPD L` or `KPD L (AUTO)` using Δ or ∇ . Press **[OK]**.
- 5 Press \triangleright . `>>Error Report` appears.
- 6 Press **[OK]**. A blinking question mark (?) appears.



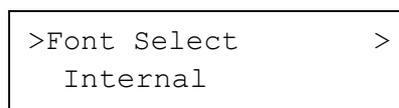
7 Select `On` or `Off` using Δ or ∇ . Press **[OK]**.

8 Press **[MENU]**. The display returns to `Ready`.

Font Select (Selecting the default font)

You can select the default font. The default font can be one of the internal fonts or a font that is downloaded to the printer memory.

In this menu, you can also set the type and pitch for Courier and Letter Gothic; as well as to print a font list.



1 Press \triangleright while `Print Settings >` is displayed.

2 Press Δ or ∇ repeatedly until `>Font Select >` appears.



3 To select an internal font, make sure that `Internal` is displayed and press \triangleright . The display changes. If `Internal` is not displayed, press **[OK]**, then press Δ or ∇ until it appears.

To select an optional font, press **[OK]** while `>Font Select >` is displayed. Press Δ or ∇ repeatedly until `Option` appears and then press **[OK]**. Press \triangleright next to display the font selection shown above. You can perform this operation only when optional fonts are installed in the printer.

The letter before the number indicates the location of the font, as shown below.

I: Internal font

S: Soft (downloaded) font

H: Fonts in RAM disk

4 Press **[OK]**. A blinking question mark (?) appears.



5 Press Δ or ∇ repeatedly until the desired font number appears. For font numbers of the internal fonts, refer to ***Print Fonts List*** on page **7-15**.

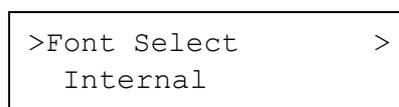
6 When the desired font is displayed, press **[OK]**.

7 Press **[MENU]**. The display returns to `Ready`.

Selecting Regular or Dark Courier/Letter Gothic

Courier or Letter Gothic font thickness can be selected as `Regular` or `Dark`. In the procedure below, it is assumed that Courier is selected. The procedure is the same for Letter Gothic.

1 Press \triangleright while `Print Settings >` is displayed.



2 Press Δ or ∇ repeatedly until `>Font Select >` appears.

3 Make sure that `Internal` is displayed and press \triangleright .

```
>>Courier
  Regular
```

4 Press Δ or ∇ repeatedly until `>>Courier` appears. If you are selecting the thickness of the Letter Gothic font, choose `>> Letter Gothic` here instead.

```
>>Courier
? Regular
```

5 Press **[OK]**. A blinking question mark (?) appears.

6 Select `Regular` or `Dark` using Δ or ∇ .

7 Press **[OK]**.

8 Press **[MENU]**. The display returns to `Ready`.

Changing the Default Font Size

You can change the size of the default font. If you selected a proportional font, the character size can also be changed.

1 Press \triangleright while `Print Settings >` is displayed.

2 Press Δ or ∇ repeatedly until `>Font Select >` appears.

```
>Font Select >
  Internal
```

3 Make sure that `Internal` is displayed and press \triangleright .

4 Press Δ or ∇ repeatedly until `>>Size` appears.

```
>>Size
  012.00 point(s)
```

5 Press **[OK]**. A blinking question mark (?) appears.

```
>>Size
  012.00 point(s)
```

6 Press Δ or ∇ to increase or decrease the value at the blinking cursor. The font size can be set between 4 and 999.75 points, in 0.25-point increments. Use \triangleright or \triangleleft to move the cursor right and left.

7 When the desired size is displayed, press **[OK]**.

8 Press **[MENU]**. The display returns to `Ready`.

Character Pitch

You can set the character pitch for fixed fonts.

1 Press \triangleright while `Print Settings >` is displayed.

2 Press Δ or ∇ repeatedly until `>Font Select >` appears.

```
>Font Select >
  Internal
```

3 Make sure that `Internal` is displayed and press \triangleright .

4 Press Δ or ∇ repeatedly until `>>Pitch` appears.

```
>>Pitch
  10.00 cpi
```

```
>>Pitch
      10.00 cpi
```

5 Press **[OK]**. A blinking question mark (?) appears.

6 Press Δ or ∇ to increase or decrease the value at the blinking cursor. The character pitch can be set 0.44 and 99.99 characters per inch, in 0.01 character-per-inch increments. Use \triangleright or \triangleleft to move the cursor right and left.

7 When the desired size is displayed, press **[OK]**.

8 Press **[MENU]**. The display returns to *Ready*.

Code Set (Setting the code set)

You can change the character code set. Available character code sets vary depending on the current font. (The default is IBM PC-8.)

1 Press \triangleright while *Print Settings >* is displayed.

2 Press Δ or ∇ repeatedly until *>Code Set* appears.

```
>Code Set
  IBM PC-8
```

3 Press **[OK]**. A blinking question mark (?) appears.

```
>Code Set
? IBM PC-8
```

4 Press Δ or ∇ until the desired character code set appears.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to *Ready*.

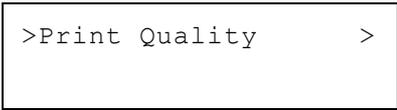
Print Quality (Setting print quality)

This selects the gloss mode (Low or High) and whether EcoPrint (low-toner printing) is used for printing.

The options available in Print Quality are as follows:

- KIR Mode (Selecting the KIR mode)
- EcoPrint Mode (Selecting the EcoPrint mode)
- Resolution (Selecting the print resolution)
- Print Density (Selecting the print density)

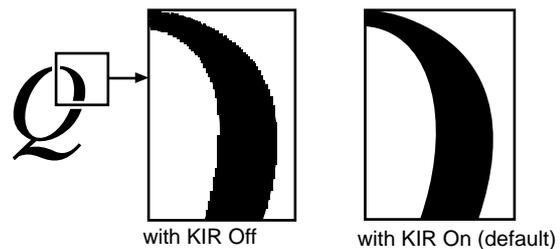
- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Print Quality >` appears.



```
>Print Quality >
```

KIR Mode (Selecting the KIR mode)

This printer incorporates the KIR (Kyocera Image Refinement) smoothing function. KIR uses the software to enhance resolution, resulting in high quality printing at resolution of 600 dpi and 300 dpi. The default is On. KIR has no effect on the printing speed.



- 1 Press \triangleright while `>Print Quality >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>KIR Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



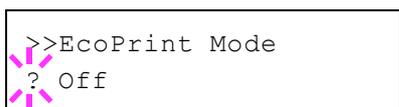
```
>>KIR Mode  
? On
```

- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

EcoPrint Mode (Selecting the EcoPrint mode)

By enabling EcoPrint mode, you can minimize the amount of toner used during printing. Because images printed in this mode may be slightly coarser than those printed in standard resolution, you should use EcoPrint for test prints or other situations where high-quality prints are not required.

Use the procedure below to select EcoPrint mode. The default setting is Off.

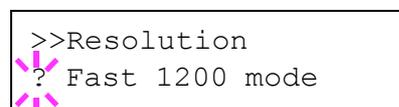


```
>>EcoPrint Mode
? Off
```

- 1 Press \triangleright while `>Print Quality >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>EcoPrint Mode` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Resolution (Selecting the print resolution)

You can set the default print resolution in four ways: 300dpi, 600dpi, Fast 1200 mode and Fine 1200 mode. The clarity of printed characters and graphics becomes sharper in this order.



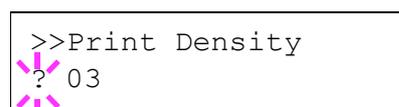
```
>>Resolution
? Fast 1200 mode
```

- 1 Press \triangleright while `>Print Quality >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Resolution` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select `Fine 1200 mode`, `Fast 1200 mode`, `600 dpi` or `300 dpi` using the \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Print Density (Selecting the print density)

The print density can be adjusted in five steps: from 01 (light) to 05 (dark). The factory setting is 03.



```
>>Print Density
? 03
```

- 1 Press \triangleright while `>Print Quality >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Print Density` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

- 4 Select the print density from five steps from `01` (light) to `05` (dark) using the \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

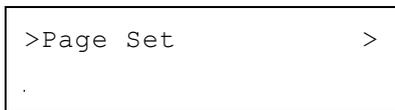
Page Set (Setting pagination)

In Page Set menus, you can set the number of copies, page orientation, and other settings regarding pagination.

The options available in Page Set are as follows:

- Copies (Number of copies)
- Orientation (Print orientation)
- LF Action (Linefeed)
- CR Action (Carriage-Return)
- Wide A4 (Wide A4 pitch)
- XPS FitTo Page (Print area setting for XPS data)
- TIFF/JPEG Size (Print mode setting for TIFF/JPEG files)

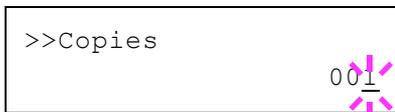
- 1 Press \triangleright while `Print Settings >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Page Set >` appears.



Copies (Number of copies)

You can set the number of copies of each page to be printed for the current interface.

- 1 Press \triangleright while `>Page Set >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Copies` appears.
- 3 Press **[OK]**. A blinking cursor () appears.

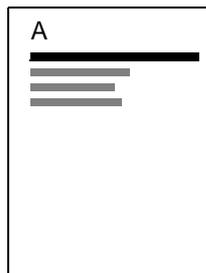


- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. The number of copies can be set between 1 and 999. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 When the desired size is displayed, press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

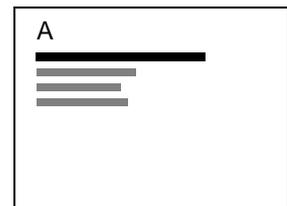
Orientation (Print orientation)

You can select portrait (upright) or landscape (sideways) page orientation.

Portrait Orientation



Landscape Orientation



- 1 Press \triangleright while `>Page Set >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Orientation` appears.

```
>>Orientation
? Portrait
```

3 Press **[OK]**. A blinking question mark (?) appears.

4 Select `Portrait` or `Landscape` using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

LF Action (Linefeed)

This procedure instructs the printer what to do when it receives a linefeed code (0AH).

- `LF only`: Linefeed is performed (Default).
- `CR and LF`: A linefeed and carriage return are performed.
- `Ignore LF`: The linefeed is ignored.

1 Press \triangleright while `>Page Set >` is displayed.

2 Press Δ or ∇ repeatedly until `>>LF Action` appears.

```
>>LF Action
? LF only
```

3 Press **[OK]**. A blinking cursor (`_`) appears.

4 Press Δ or ∇ repeatedly until the desired linefeed action appears.

5 When the desired action is displayed, press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

CR Action (Carriage-Return)

This procedure instructs the printer what to do when it receives a carriage return code (0DH).

- `CR only`: A carriage-return is performed (Default).
- `CR and LF`: A linefeed and carriage return are performed.
- `Ignore CR`: The carriage-return is ignored.

1 Press \triangleright while `>Page Set >` is displayed.

2 Press Δ or ∇ repeatedly until `>>CR Action` appears.

```
>>CR Action
? CR only
```

3 Press **[OK]**. A blinking cursor (`_`) appears.

4 Press Δ or ∇ repeatedly until the desired carriage-return appears.

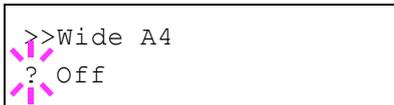
5 When the desired action is displayed, press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

Wide A4 (Wide A4 pitch)

Turn this to **On** to increase the maximum number of characters that can be printed in a line for an A4 page (78 characters at 10 pitch) and Letter size page (80 characters at 10 pitch). This setting is only effective in PCL 6 emulation.

- 1 Press **▷** while **>Page Set >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>Wide A4** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



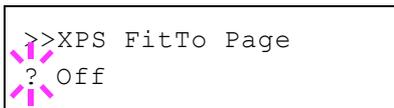
```
>>Wide A4
? Off
```

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

XPS FitTo Page (Print area setting for XPS data)

Select **On** in this setting to enlarge or reduce XPS files to fit the printable area during printing.

- 1 Press **▷** while **>Page Set >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>XPS FitTo Page** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



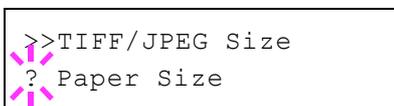
```
>>XPS FitTo Page
? Off
```

- 4 Select **On** or **Off** using **△** or **▽**.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

TIFF/JPEG Size (Print mode setting for TIFF/JPEG files)

Use this setting to select the printing method used when TIFF or JPEG files are printed directly. The default setting is **Paper Size**.

- 1 Press **▷** while **>Page Set >** is displayed.
- 2 Press **△** or **▽** repeatedly until **>>TIFF/JPEG Size** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>>TIFF/JPEG Size
? Paper Size
```

- 4 Press **△** or **▽** repeatedly until the desired print mode is displayed. The list shows the following print modes:
Paper Size (scaled to fit the paper size)
Images are resized so that they fill the paper size when printed.
Image Resolution (matched to the image resolution)
Image files are printed at the resolution specified in the resolution information. Images with no resolution information are printed using the **Paper Size** setting.
Print Resolution (matched to the print resolution)

Images are printed using a 1-to-1 correspondence between the image file pixels and printed dots. For example, the printed size of a 600 x 300-pixel image file is 1 inch x 1/2 inch.

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.



Note Images are automatically rotated during printing to provide a closer match between the aspect ratios of the image file and the paper used for printing.

Job Name (The Job Name display settings)

Set whether the job name set in the printer driver is displayed.

- 1 Press \triangleright while *Print Settings >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>Job Name* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Press \triangle or ∇ to display the job name to be used.
 - Off
 - Job Name (Use the job name set in the printer driver.)
 - Job No.+Job Name
 - Job Name+Job No.
- 5 When the desired job name is displayed, press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Network (Network settings)

This printer supports TCP/IP and TCP/IP (IPv6) protocols.

IP is an abbreviation for Internet Protocol. This printer routinely uses the TCP/IP (IPv4) protocol, but provides a separate setting for the next-generation IP, IPv6.

TCP/IP (IPv4) uses 32-bit IP addresses, but the rapid growth in the number of Internet users has resulted in a shortage of IP addresses. IPv6 was developed to expand the range of available IP addresses by using 128-bit IP addresses.

The options available in the Network settings are as follows:

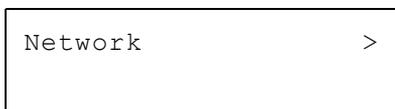
- TCP/IP (IPv4 settings)
- TCP/IP (IPv6) (IPv6 settings)
- Protocol Detail (Detailed settings for the network protocol)
- Restart Network (Restarting the network card)



Note Check with your network administrator when selecting the network setting. After all network related settings have been done, restart the network. Refer to **Restart Network (Restarting the network card)** on page 7-49. This is mandatory to make the settings effective!

When Command Center RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Command Center RX User Guide*.

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Network >` appears.



TCP/IP (IPv4 settings)

This selects the settings for TCP/IP (IPv4).

The TCP/IP system refers to the Internet system, which has a 5-layer structure consisting of the interface layer, link layer, network (IP) layer, transport (TCP/UDP) layer and application layer.

The interface layer is a key layer in the TCP/IP system that provides an abstracted interface that is not dependent on the link (communication line: frame relay or Ethernet, etc.) to the IP module (IP layer). This means that the IP module can use this abstracted interface (which is not dependent on the link type) to exchange IP packets back and forth with the link layer.

The options available in the TCP/IP (IPv4) settings are as follows:

- DHCP (DHCP setting)
- Auto-IP (Auto-IP setting)
- IP Address (IP address setting)
- Subnet Mask (Subnet mask setting)
- Gateway (Gateway setting)
- Bonjour (Bonjour setting)

IMPORTANT The DHCP, IP address, subnet mask, gateway and Bonjour menu options for TCP/IP are displayed when TCP/IP is enabled.

- 1 Press \triangleright while `Network >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>TCP/IP >` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Select `On` and press **[OK]**. Configure the settings shown below.

DHCP (DHCP setting)

DHCP (Dynamic Host Configuration Protocol) is the protocol that assigns the information required to establish a network connection when a host attempts to connect to the network (Internet). This information includes the IP address of the local node and the default router (the router in the host's own network system) and the DNS (Domain Name System) server. DHCP is an extension of the BOOTP (Bootstrap) startup protocol.

- 1 Press \triangleright while `>TCP/IP On >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>DHCP` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Auto-IP (Auto-IP setting)

This protocol is used for automatic assignment of an IP address when you connect to a small network that does not have a DHCP server. Select an address from the range 169.254.0.1 to 169.254.255.254, and if no other device on the network is using that address, it is used as your address.

- 1 Press \triangleright while `>TCP/IP On >` or `>TCP/IP Off >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Auto-IP` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

IP Address (IP address setting)

An IP address is the address of a network device such as a computer and is included in IP packets as needed for the sending and receiving of Internet data (IP packets). (IP addresses can be either destination addresses or source addresses.)

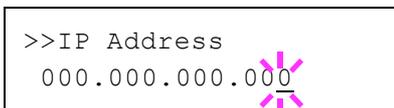
Specifically, an IP address is a bit string consisting of a host address (or host section) that identifies a computer connected to the Internet and a network address (or network section) that identifies the network to which that computer belongs (or more specifically, the computer's network interface). Bit strings (IP addresses) that are unique throughout the entire Internet system are allocated to each computer or interface.

The IP addresses currently used on the Internet (IPv4) have a fixed length of 32 bits.



Note When you enter the IP address, be sure to set the DHCP setting to Off.

- 1 Press \triangleright while `>TCP/IP On >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>IP Address` appears.
- 3 Press **[OK]**. A blinking cursor (`_`) appears.



```
>>IP Address
000.000.000.000
```

- 4 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Display the desired IP address and press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Subnet Mask (Subnet mask setting)

The subnet mask is a way of augmenting the network address section of an IP address.

A subnet mask represents all network address sections as 1 and all host address sections as 0. The number of bits in the prefix indicates the length of the network address. The term "prefix" refers to something added to the beginning and, in this context, indicates the first section of the IP address.

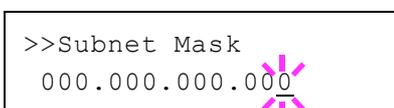
When an IP address is written, the length of the network address can be indicated by the prefix length after a forward slash (/). For example, "24" in the address "133.210.2.0/24". In this way, "133.210.2.0/24" denotes the IP address "133.210.2.0" with a 24-bit prefix (network section).

This new network address section (originally part of the host address) made possible by the subnet mask is referred to as the subnet address.



Note When you enter the subnet mask, be sure to set the DHCP setting to Off.

- 1 Press \triangleright while `>TCP/IP On >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Subnet Mask` appears.
- 3 Press **[OK]**. A blinking cursor (`_`) appears.



```
>>Subnet Mask
000.000.000.000
```

- 4 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Display the desired subnet mask and press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Gateway (Gateway setting)

Gateway generally refers to a protocol conversion device used to allow networks with differing protocol systems to interconnect.

For example, a "Gateway" device is required to connect a different closed network (using its own protocols) to the open Internet (using TCP/IP).

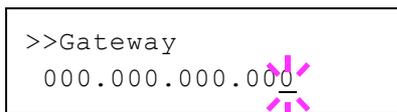
By installing a gateway, the communications protocols and data display modes on different networks can be made compatible.

On TCP/IP networks, the term gateway is used to refer to routers.



Note Before you input the gateway, be sure to set the DHCP setting to *Off*.

- 1 Press \triangleright while *>TCP/IP On >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>>Gateway* appears.
- 3 Press **[OK]**. A blinking cursor () appears.



- 4 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Display the desired gateway and press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

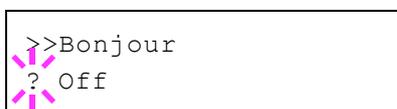
Bonjour (Bonjour setting)

Bonjour, also known as zero-configuration networking, is a service that automatically detects computers, devices and services on an IP network.

Bonjour, because an industry-standard IP protocol is used, allows devices to automatically recognize each other without an IP address being specified or DNS server being set.

Bonjour also sends and receives network packets by UDP port 5353. If a firewall is enabled, the user must check that UDP port 5353 is left open so that Bonjour will run correctly. Some firewalls are set up so as to reject only certain Bonjour packets. If Bonjour does not run stably, check the firewall settings and ensure that Bonjour is registered on the exceptions list and that Bonjour packets are accepted. If you install Bonjour on Windows XP Service Pack 2 or later, the Windows firewall will be set up correctly for Bonjour.

- 1 Press \triangleright while *>TCP/IP On >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>>Bonjour* appears.
- 3 Press **[OK]**. A blinking cursor () appears.



- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

TCP/IP (IPv6) (IPv6 settings)

This selects the settings for TCP/IP (IPv6).

TCP/IP (IPv6) is based on the current Internet protocol, TCP/IP (IPv4). IPv6 is the next-generation Internet protocol and expands the available address space, which resolves the problem of the lack of addresses under IPv4, while also introducing other improvements such as additional security functionality and the capacity to prioritize data transmission.

The options available in the TCP/IP (IPv6) settings are as follows:

- RA (Stateless) (RA (Stateless) setting)
- DHCPv6 (DHCPv6 setting)

IMPORTANT The RA (Stateless) and DHCPv6 menu options for TCP/IP (IPv6) are displayed when TCP/IP (IPv6) is enabled.

- 1 Press \triangleright while **Network >** is displayed.
- 2 Press Δ or ∇ repeatedly until **>TCP/IP (IPv6) >** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

```
>TCP/IP (IPv6) >
? Off
```

- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Select **On** and press **[OK]**. Configure the settings shown below.

RA (Stateless) (RA (Stateless) setting)

The IPv6 router communicates (transmits) information such as the global address prefix using ICMPv6. This information is the Router Advertisement (RA).

ICMPv6 stands for Internet Control Message Protocol, and is a IPv6 standard defined in the RFC 2463 "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification".

- 1 Press \triangleright while **>TCP/IP (IPv6) On >** is displayed.
- 2 Press Δ or ∇ repeatedly until **>>RA(Stateless)** appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

```
>>RA(Stateless)
? Off
```

- 4 Select **On** or **Off** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to **Ready**.

DHCPv6 (DHCPv6 setting)

DHCPv6 is the next-generation of the Internet's Dynamic Host Configuration Protocol and supports IPv6. It extends the BOOTP startup protocol that defines the protocols used for transferring configuration information to hosts on the network.

DHCPv6 permits the DHCP server to use its expanded functionality to send configuration parameters to an IPv6 node. Because the network addresses that can be used are allocated automatically, the IPv6 node management workload is reduced in systems where the administrator has to exercise close control over IP address allocation.

- 1 Press \triangleright while `>TCP/IP (IPv6) On >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>DHCPv6` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Protocol Detail (Detailed settings for the network protocol)

This selects the settings for Protocol Detail.

The options available in the Protocol Detail settings are as follows:

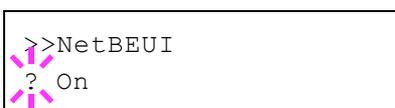
- NetBEUI (NetBEUI setting)
- SNMPv3 (SNMPv3 setting)
- FTP (Server) (FTP (Server) setting)
- SNMP (SNMP setting)
- SMTP (SMTP setting)
- POP3 (POP3 setting)
- RAW Port (RAW Port setting)
- LPD (LPD setting)
- HTTP (HTTP setting)

- 1 Press \triangleright while `Network >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Protocol Detail >` appears.

NetBEUI (NetBEUI setting)

Selects whether or not to receive documents using NetBEUI.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>NetBEUI` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



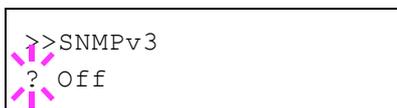
- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.

- 6 Press **[MENU]**. The display returns to Ready.

SNMPv3 (SNMPv3 setting)

Set SNMPv3.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>SNMPv3` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

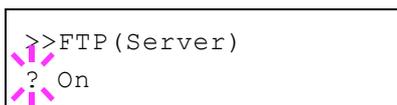


- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

FTP (Server) (FTP (Server) setting)

Select whether or not to receive documents using FTP.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>FTP (Server)` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

SNMP (SNMP setting)

Select whether or not to communicate using SNMP.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>SNMP` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

SMTP (SMTP setting)

Select whether or not to send email using SMTP.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>SMTP` appears.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Select *On* or *Off* using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to *Ready*.

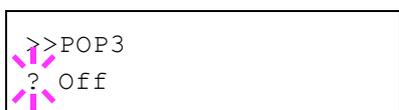
POP3 (POP3 setting)

Select whether or not to receive email using POP3.

1 Press \triangleright while *>Protocol Detail >* is displayed.

2 Press Δ or ∇ repeatedly until *>>POP3* appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select *On* or *Off* using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to *Ready*.

RAW Port (RAW Port setting)

Select whether or not to communicate using RAW Port.

1 Press \triangleright while *>Protocol Detail >* is displayed.

2 Press Δ or ∇ repeatedly until *>>RAW Port* appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select *On* or *Off* using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to *Ready*.

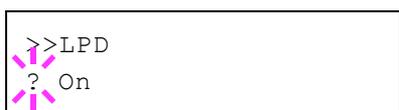
LPD (LPD setting)

Select whether or not to receive documents using LPD as the network protocol.

1 Press \triangleright while *>Protocol Detail >* is displayed.

2 Press Δ or ∇ repeatedly until *>>LPD* appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select *On* or *Off* using Δ or ∇ .

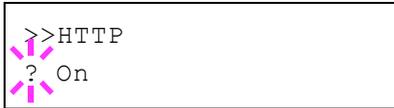
5 Press **[OK]**.

6 Press **[MENU]**. The display returns to *Ready*.

HTTP (HTTP setting)

Select whether or not to communicate using HTTP.

- 1 Press \triangleright while `>Protocol Detail >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>HTTP` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

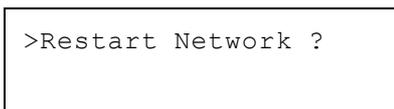


- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Restart Network (Restarting the network card)

After all network related settings have been done, restart the network card of the device. This is mandatory to make the settings effective.

- 1 Press \triangleright while `Network >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Restart Network` appears.
- 3 Press **[OK]**. A question mark (?) appears.



- 4 Press **[OK]** again. The message `Restarting... Please wait.` appears and the network is restarted.

Optional Network (Optional Network settings)

This selects the settings for the optional network interface kit (IB-50) or wireless network interface kit (IB-51).



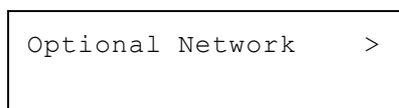
Note This is only displayed when a network interface kit (IB-50) or wireless network interface kit (IB-51) is installed as an option.

Refer to the *IB-51 User's Manual* for information on the wireless network settings. Manual setting from the printer is not supported on this device.

The options available in the Optional Network settings are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- TCP/IP (IPv4 settings)
- TCP/IP (IPv6) (IPv6 settings)
- Netware (NetWare setting)
- AppleTalk (AppleTalk setting)
- IPSec (IPSec setting)
- LAN Interface (LAN Interface setting)
- MACAddressFilter (MAC address filtering setting)
- Communication (Select the network interface to use)
- Restart Network (Restarting the optional network interface kit)

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Optional Network >` appears.



ID (Administrator ID input)

To use the Optional Network function, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Press \triangleright while `Optional Network >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).



- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Optional Network functions, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Security screen appears.

TCP/IP (IPv4 settings)

This selects the settings for TCP/IP (IPv4). The method for setting is the same as for the standard Network settings. For details, refer to **TCP/IP (IPv4 settings)** on page 7-41.

TCP/IP (IPv6) (IPv6 settings)

This selects the settings for TCP/IP (IPv6). The method for setting is the same as for the standard Network settings. For details, refer to **TCP/IP (IPv6) (IPv6 settings)** on page 7-45.

Netware (NetWare setting)

NetWare is a PC-based network operating system specifically for servers. NetWare is a client-server system that operates by installing the NetWare OS on the server and dedicated client modules (NetWare clients) on the client machines (running MS-DOS, OS/2, Windows, etc.). The basic network layer protocol used is NetWare's own IPX (Internetwork Packet eXchange)/SPX (Sequenced Packet eXchange), but the system also supports TCP/IP.

The feature of the NetWare OS is that it is specifically for servers, unlike general-purpose operating systems such as Windows NT and UNIX. Only the minimum required for server operation can be performed from the NetWare OS console on the server. Server and file management is basically carried out using management tools from the clients. Also, all drivers and protocol stacks are in the form of modules called NetWare Loadable Modules (NLMs), and the ability of NLMs to load and unload flexibly and dynamically is a major advantage of this system.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>Netware` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.



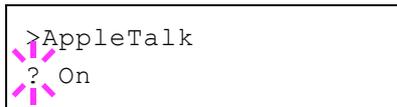
- 3 Press Δ or ∇ to select whether NetWare is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

AppleTalk (AppleTalk setting)

AppleTalk is a communications protocol used primarily on Macintosh computers and also refers to the Mac OS network functions.

AppleTalk assigns 24-bit network addresses (a 16-bit network section and an 8-bit node address) that are used to identify devices (computers, printers, etc.) on the network.

When the power is turned on, a broadcast signal is sent out onto the network and the addresses and machine names are automatically assigned. The default setting is `On`.



```
>AppleTalk
? On
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>AppleTalk` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select whether AppleTalk is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

IPSec (IPSec setting)

IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.



Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.



```
>IPSec
? Off
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>IPSec` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select whether IPSec is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

LAN Interface (LAN Interface setting)

Specify the settings for the LAN interface to be used. The default setting is `Auto`.



Note LAN Interface is only displayed when the optional network interface kit (IB-50) is installed.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>LAN Interface` appears.

```
>LAN Interface
? Auto
```

2 Press **[OK]**. A blinking question mark (?) appears.

3 Press Δ or ∇ to select the desired LAN Interface. The available LAN Interface are as follows:

```
Auto
10BASE-Half
10BASE-Full
100BASE-Half
100BASE-Full
1000BASE-T
```

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

MACAddressFilter (MAC address filtering setting)

This sets whether or not to enable MAC address filtering.



Note The detailed settings for MAC address filtering are selected using the optional network interface kit utility software.

1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>MACAddressFilter` appears.

2 Press **[OK]**. A blinking question mark (?) appears.

```
>MACAddressFilter
? Off
```

3 Press Δ or ∇ to select whether MAC address filtering is enabled.

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

Communication (Select the network interface to use)

Select the interface to be used for network connection.

1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>Communication` appears.

2 Press **[OK]**. A blinking question mark (?) appears.

```
>Communication
? Standard NIC
```

3 Press Δ or ∇ to select the desired NIC.

```
Standard NIC (standard network interface of the printer)
Option NIC (optional network interface kit)
```

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

Restart Network (Restarting the optional network interface kit)

After all network related settings have been done, restart the network card of the device. This is mandatory to make the settings effective.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>Restart Network` appears.
- 2 Press **[OK]**. A question mark (?) appears.

`>Restart Network ?`

- 3 Press **[OK]** again. The message `Restarting... Please wait.` appears and the network is restarted.

Device Common (Selecting/Setting the common device)

Selects/sets all the functions in this printer.

The options available in Device Common are as follows:

- Message Language (Selecting the message language)
- Date Setting (Date and time settings)
- Buzzer (Alarm (Buzzer) setting)
- RAM Disk Mode (Using the RAM disk)
- Error Handling (Error detection setting)
- Timer (Timer setting)
- Sleep Level Set. (Sleep level setting)
- TonerAlert Level (Setting for the alert level for toner addition)

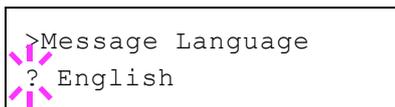
- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Device Common >` appears.



Message Language (Selecting the message language)

You can select the language of the message display by following the procedure given below. You can optionally download messages in other languages. Contact your service technician for information.

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Message Language` appears. The default message language is `English`.
- 3 To change the language, press **[OK]**. A blinking question mark (?) appears.
- 4 Press Δ or ∇ . The display cycles through the available selection in the following order:
 - English
 - Français
 - Deutsch
 - Italiano
 - Nederlands
 - Español
 - Русский
 - Português
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.



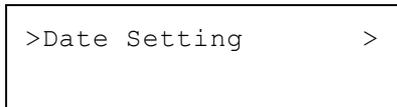
Date Setting (Date and time settings)

Set the date and time.

The date and time settings consist of the following items:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Date (date setting)
- Time (time setting)
- Date Format (date format selection)
- Time Zone (time difference setting)
- Summer Time (summer time setting)

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Date Setting >` appears.



ID (Administrator ID input)

To use the Date settings, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Press \triangleright while `>Date Setting >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).



- 3 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Date settings, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Date settings screen appears.

Date (date setting)

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Date (Year/Mon/Day)` appears.
- 2 Press **[OK]**. A blinking cursor (`_`) appears.

```
>>Date (Year/Mon/Day)
2013 / 01 / 01
```

- 3 Use the arrow keys to set the year, month, and day. Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Use \triangleleft and \triangleright to move the cursor right and left.



Note The order in which the year, month, and day appear varies depending on the **Date Format (date format selection)** on page 7-57.

- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to Ready.

Time (time setting)

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Time (Hour:Min:Sec)` appears.
- 2 Press **[OK]**. A blinking cursor (`_`) appears.

```
>>Time (Hour:Min:Sec)
11 : 19 : 21
```

- 3 Use the arrow keys to set the hour, minute, and second. Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Use \triangleleft and \triangleright to move the cursor right and left.

- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to Ready.

Date Format (date format selection)

One of three formats can be selected for the date format.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Date Format` appears.
- 2 Press **[OK]**. A blinking question mark (`?`) appears.

```
>>Date Format
? Month/Day/Year
```

- 3 Press Δ or ∇ to select `Date Format`. The following date formats can be selected:

Month/Day/Year

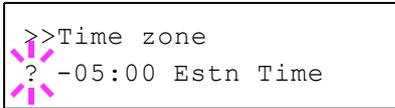
Day/Month/Year

Year/Month/Day

- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to Ready.

Time Zone (time difference setting)

Set the time difference from GMT.

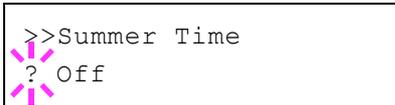


```
>>Time zone
? -05:00 Estn Time
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Time zone` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select the location.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Summer Time (summer time setting)

Set summer time.



```
>>Summer Time
? Off
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Summer Time` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select whether the summer time is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Buzzer (Alarm (Buzzer) setting)

This function uses tones to notify the user of printer operations and the printer status. This setting is useful, for example, when the printer is located some distance from the user.

The options available in Buzzer are as follows:

- Key Confirm. (Key confirmation tone setting)
- Job End (Job completed tone setting)
- Ready (Preparation completed tone setting)
- Error (Error tone setting)



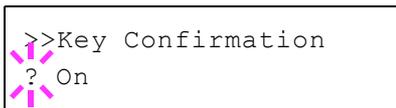
```
>Buzzer >
```

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Buzzer >` appears.

Key Confirm. (Key confirmation tone setting)

When `On` is selected in this setting, a tone sounds each time a key is used. The default setting is `On`.

- 1 Press \triangleright while `>Buzzer >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>>Key Confirmation` appears.



3 Press **[OK]**. A blinking question mark (?) appears.

4 Select **On** or **Off** using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to **Ready**.

Job End (Job completed tone setting)

When **On** is selected in this setting, a tone sounds when printing ends. The default setting is **Off**.

1 Press \triangleright while **>Buzzer >** is displayed.

2 Press Δ or ∇ repeatedly until **>>Job End** appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select **On** or **Off** using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to **Ready**.

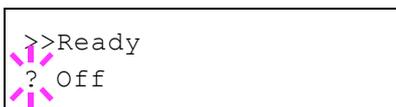
Ready (Preparation completed tone setting)

When **On** is selected in this setting, a tone sounds when print preparation has been completed. The default setting is **Off**.

1 Press \triangleright while **>Buzzer >** is displayed.

2 Press Δ or ∇ repeatedly until **>>Ready** appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select **On** or **Off** using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to **Ready**.

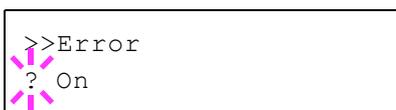
Error (Error tone setting)

When **On** is selected in this setting, a tone sounds when a problem such as running out of paper or a paper jam occurs during printing. The default setting is **On**.

1 Press \triangleright while **>Buzzer >** is displayed.

2 Press Δ or ∇ repeatedly until **>>Error** appears.

3 Press **[OK]**. A blinking question mark (?) appears.



4 Select **On** or **Off** using Δ or ∇ .

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to **Ready**.

RAM Disk Mode (Using the RAM disk)

The RAM disk is a memory space shared within the printer memory that can temporarily store print jobs. The stored print job can then be used to print multiple copies of the job reducing the total amount of time required to print the whole job.

To use the RAM disk, activate and enter the desired size of the RAM disk in the manner described below. The maximum RAM disk size can be calculated as follows:

When the RAM disk is activated = The maximum RAM disk size is 16 MB (when no options are attached)

When the optional memory is installed = The maximum RAM disk size is 1/2 of the total optional memory installed

To activate RAM disk in the printer's memory, first you must set the RAM disk mode to `On` and set the desired data size for the RAM disk as described in the following section. This allows you to perform the following operations on the RAM disk.



Note The RAM disk is an allocated part of the printer's memory.

IMPORTANT The RAM disk stores data only temporarily. When the printer is reset or turned off, the stored data will be erased.

The RAM disk is allocated from the printer memory available to users. If the size of the RAM disk is set too large, the printing speed may decrease or the memory may become insufficient.

- 1 Press `▷` while `Device Common >` is displayed.
- 2 Press `△` or `▽` repeatedly until `>RAM Disk Mode >` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.
- 4 Select `On` or `Off` using `△` or `▽`.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

```
>RAM Disk Mode >
? On
```

RAM Disk Size (Setting the RAM disk size)

Use this procedure to set the amount of memory used for the RAM disk.

IMPORTANT The RAM Disk Size menu option only appears when RAM Disk Mode is set to `On`.

- 1 Press `▷` while `>RAM Disk Mode On >` is displayed.
- 2 Press **[OK]**. The message display shows a blinking cursor (`_`). Press `△` or `▽` to display the desired size. Use `◀` and `▶` to move the cursor right and left.
This range varies depending on the total memory size of the printer.
- 3 When the desired RAM disk size is displayed, press **[OK]**.
- 4 Press **[MENU]**. The display returns to `Ready`. Turn the printer off and then on again. The selected RAM disk size is activated after the printer is restarted.

```
>>RAM Disk Size
    016 MByte
```

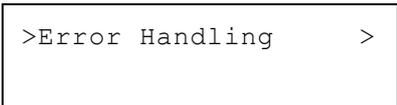
Error Handling (Error detection setting)

This specifies the settings for the detection methods used for duplex printing errors and for paper size and paper type errors when the paper source is fixed.

The options available in Error Handling are as follows:

- Duplex (Duplex printing error detection setting)
- Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)
- MP Tray Empty (Warning when the MP tray is empty)

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Error Handling >` appears.



```
>Error Handling >
```

Duplex (Duplex printing error detection setting)

If the error detection setting for duplex printing has been turned `On`, and you attempt to print onto a paper size and paper type that cannot be used for duplex printing, the `Duplex disabled Press GO` error message will be displayed and printing will stop.

On	<ul style="list-style-type: none">• To print onto one-side of the paper only when this message is displayed, press [GO].• Press [Cancel] to cancel the printing itself.
Off	<ul style="list-style-type: none">• To print onto one-side of the paper.

- 1 Press \triangleright while `>Error Handling >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Duplex` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



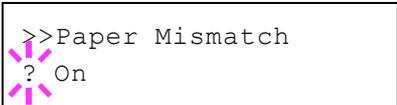
```
>>Duplex  
? On
```

- 4 Select `On` or `Off` using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)

Turn this setting to `Off` if you want to continue printing even if the paper size or type you specified is different from the fixed paper source, or turn it to `On` to have the paper feed error displayed.

- 1 Press \triangleright while `>Error Handling >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Paper Mismatch` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



```
>>Paper Mismatch  
? On
```

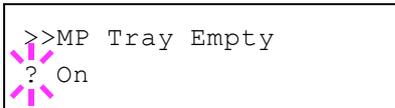
- 4 Select `On` or `Off` using \triangle or ∇ .

- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

MP Tray Empty (Warning when the MP tray is empty)

Turn this setting to *On* if you want the error displayed when the MP tray is configured as the default paper source, and there is no paper in the MP tray, or turn it to *Off* not to have the error displayed.

The setting *On* enables the paper-empty message to display when the MP tray is empty.



- 1 Press \triangleright while *>Error Handling >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>>MP Tray Empty* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

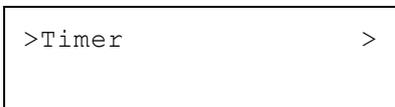
- 4 Select *On* or *Off* using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Timer (Timer setting)

This specifies timer-related settings such as the automatic form-feed timeout and the timeout settings for Sleep timer.

The options available in Timer are as follows:

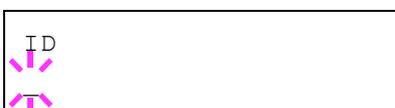
- ID (Administrator ID input)
- Password (Administrator Password input)
- Auto Panel Reset (Auto panel reset settings)
- Panel Reset Timer (Setting the panel reset timer)
- Low Power Timer (Low Power Mode timer timeout time)
- Sleep Timer (Sleep timer timeout time)
- Auto Error Clear (Auto error clear setting)
- Error Clear Timer (Setting the error clear time)
- Form Feed Time Out (Automatic form feed timeout setting)



- 1 Press \triangleright while *Device Common >* is displayed.
- 2 Press \triangle or ∇ repeatedly until *>Timer >* appears.

ID (Administrator ID input)

To use the Timer settings, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page **7-81**.



- 1 Press \triangleright while *>Timer >* is displayed.
- 2 The message display shows *ID* and a blinking cursor (*_*).

- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Timer settings, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.

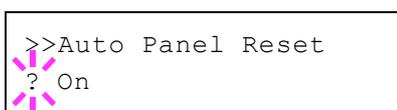
 **Note** If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Timer settings screen appears.

Auto Panel Reset (Auto panel reset settings)

The Auto Panel Reset function automatically restores the default settings if the panel is not used for a set time. The default setting is `On`.

For setting the time until the panel is reset, refer to the next section *Panel Reset Timer (Setting the panel reset timer)*.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Auto Panel Reset` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Select `On` or `Off` using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Panel Reset Timer (Setting the panel reset timer)

When Auto Panel Reset is set to `On`, this sets the time until the panel is automatically reset after the user stops using the panel. The default time is 90 seconds.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Panel Reset Timer` appears.

```
>>Panel Reset Timer
    090sec.
```

- 2 Press **[OK]**. The message display shows a blinking cursor (_).
- 3 Press Δ or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between 005 and 495 seconds, in 5-second increments. Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

Low Power Timer (Low Power Mode timer timeout time)

You can adjust the length of time the printer waits before entering Low Power Mode in the absence of a print job.

The printer reverts to normal operation mode when the printer receives a print job or **[GO]** is pressed on the operation panel. The default time is 1 minute.

```
>>Low Power Timer
    005 min.
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Low Power Timer` appears.
- 2 To change the timeout time, press **[OK]**. A blinking cursor (_) appears.
- 3 Press Δ or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The timer can be set between 1 and 120 min (for Europe) or 1 and 240 min (except for Europe). Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

Sleep Timer (Sleep timer timeout time)

You can adjust the length of time the printer waits before entering Auto Sleep in the absence of data.

The printer reverts to normal operation mode when the printer receives a print job, or **[GO]** is pressed on the operation panel. The default time is 15 minutes (for Europe) and 1 minute (except for Europe).



Note Calibration is automatically executed before the printer reverts to normal operation mode.

```
>>Sleep Timer
    015 min.
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Sleep Timer` appears.
- 2 To change the timeout time, press **[OK]**. A blinking cursor (_) appears.
- 3 Press Δ or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The timer can be set between 1 and 120 min (for Europe) or 1 and 240 min (except for Europe). Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to Ready.

Auto Error Clear (Auto error clear setting)

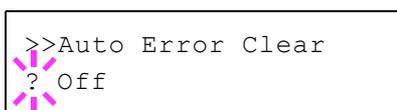
If an error that still allows you to continue printing occurs, the next received data is automatically printed after a set period of time elapses. For example, if the printer is shared over a network as a network printer and one person causes one of the above errors, after the set period of time elapses, the data sent from the next person is printed. The default setting is *Off* (Auto Error Clear disabled).

The auto clear errors are:

- Memory overflow Press GO
- KPDL error ## Press GO
- RAM disk error## Press GO
- Duplex disabled Press GO
- Job not stored Press GO
- No multi copies Press GO
- USB memory error ## Press GO

For setting the auto error clear recovery time, refer to the next section *Error Clear Timer (Setting the error clear time)*.

- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Auto Error Clear` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



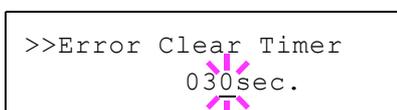
```
>>Auto Error Clear
? Off
```

- 4 Select *On* or *Off* using \triangle or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Error Clear Timer (Setting the error clear time)

If Auto Error Clear is set to *On* and a non-fatal error (an error that allows printing to continue) occurs, this setting specifies the time until the error is recovered and printing resumes.

- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Error Clear Timer` appears.
- 3 Press **[OK]**. A blinking cursor (`_`) appears.

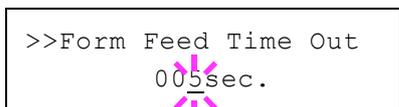


```
>>Error Clear Timer
030sec.
```

- 4 Press \triangle or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The time must be set between 005 and 495 seconds, in 5-second increments. You can use \triangleleft and \triangleright to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to Ready.

Form Feed Time Out (Automatic form feed timeout setting)

If the printer receives no data for a certain period, it will time out and release the current interface. It prints whatever data it has in its buffer and feeds out the page. The default form feed timeout time is 30 seconds.



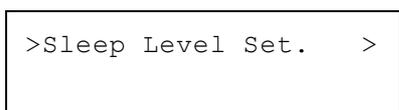
- 1 Press \triangleright while `>Timer >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Form Feed Time Out` appears.
- 3 Press **[OK]**. A blinking cursor (\ast) appears.
- 4 Press \triangle or ∇ to increase or decrease the value at the blinking cursor and set the desired time. The timeout time can be between 5 and 495 seconds, in 5-second increments. Use \triangleleft and \triangleright to move the cursor right and left.
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

Sleep Level Set. (Sleep level setting)

For Europe

This sets whether or not the machine enters sleep mode when connected to a network.

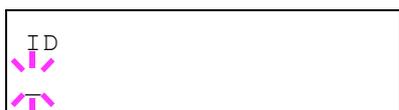
- ID (Administrator ID input)
- Password (Administrator Password input)
- Network (Setting for entering sleep mode when connected to a network)
- USB Cable (Setting for entering sleep mode when connected to a USB)
- RAM Disk (Setting for entering sleep mode when using the RAM disk)



- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>Sleep Level Set. >` appears.

ID (Administrator ID input)

To use the Sleep Level settings, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.



- 1 Press \triangleright while `>Sleep Level Set. >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (\ast).
- 3 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.

- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Sleep Level settings, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.



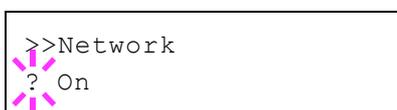
- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.

 **Note** If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Sleep Level settings screen appears.

Network (Setting for entering sleep mode when connected to a network)

This sets whether or not the machine enters sleep mode when connected to a network.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Network` appears.

- 2 Press **[OK]**. A blinking question mark (?) appears.

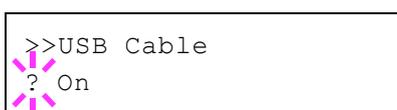
- 3 Select `On` or `Off` using Δ or ∇ .

- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to `Ready`.

USB Cable (Setting for entering sleep mode when connected to a USB)

This sets whether or not the machine enters sleep mode when connected to a USB.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>USB Cable` appears.

- 2 Press **[OK]**. A blinking question mark (?) appears.

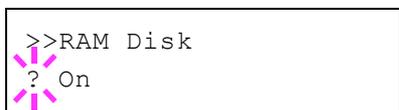
- 3 Select `On` or `Off` using Δ or ∇ .

- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to `Ready`.

RAM Disk (Setting for entering sleep mode when using the RAM disk)

This sets whether or not the machine enters sleep mode when using the RAM disk.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>RAM Disk` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `On` or `Off` using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Except for Europe

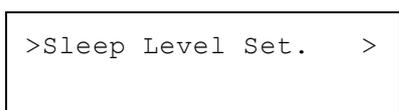
Select the sleep level.

The options available in `Sleep Level Set.` are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Sleep Level (Sleep level setting)
- Network (Setting for entering energy-saving mode when connected to a network)
- USB Cable (Setting for entering energy-saving mode when connected to a USB)
- RAM Disk (Setting for entering energy-saving mode when using the RAM disk)



Note Network, USB Cable and RAM Disk are only displayed when Sleep Level is set to Energy Saver.



- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Sleep Level Set. >` appears.

ID (Administrator ID input)

To use the Sleep Level settings, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.



- 1 Press \triangleright while `>Sleep Level Set. >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.



Password (Administrator Password input)

To set up the Sleep Level settings, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Sleep Level settings screen appears.

Sleep Level (Sleep level setting)

There are two sleep modes with different levels of sleep: Quick Recovery and Energy Saver.

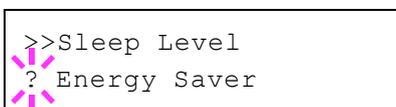
Quick Recovery Mode: The recovery from the sleep mode is faster than when using Energy Saver mode.

Energy Saver Mode: This makes it possible to reduce energy consumption even further than with Quick Recovery mode. With Energy Saver mode, you can set whether to enable the Energy Saver mode for each separate function.



Note For information on the Quick Recovery mode and Energy Saver mode, refer to the *Connecting and Printing* section in the *Operation Guide*.

Sleep Level Set. menu is not displayed when the optional network interface kit (IB-50) or wireless network interface kit (IB-51) has been installed.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Sleep Level` appears.

- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Press Δ or ∇ to select `Quick Recovery` or `Energy Saver`.

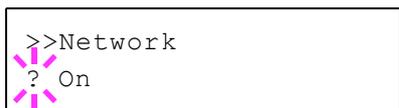
- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to `Ready`.

Network (Setting for entering energy-saving mode when connected to a network)

This sets whether or not the machine enters Energy Saver mode when connected to a network.

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Network` appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select *On* or *Off* using Δ or ∇ .

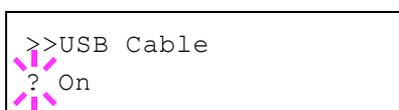
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

USB Cable (Setting for entering energy-saving mode when connected to a USB)

This sets whether or not the machine enters sleep mode when connected to a USB.

1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>>USB Cable* appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select *On* or *Off* using Δ or ∇ .

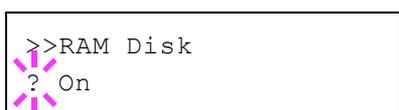
4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

RAM Disk (Setting for entering energy-saving mode when using the RAM disk)

This sets whether or not the machine enters sleep mode when using the RAM disk.

1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>>RAM Disk* appears.



2 Press **[OK]**. A blinking question mark (?) appears.

3 Select *On* or *Off* using Δ or ∇ .

4 Press **[OK]**.

5 Press **[MENU]**. The display returns to *Ready*.

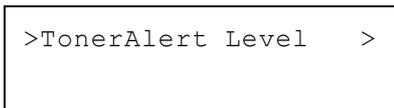
TonerAlert Level (Setting for the alert level for toner addition)

This sets the toner addition alert level displayed on the status monitor.

The options available in TonerAlert Level are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Off/On
- TonerAlert Level (Setting for the alert level for toner addition)

- 1 Press \triangleright while `Device Common >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>TonerAlert Level >` appears.

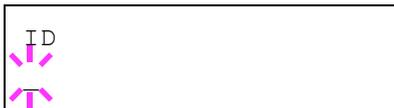


The screenshot shows a rectangular display area with the text `>TonerAlert Level >` centered on the screen.

ID (Administrator ID input)

To use the TonerAlert Level settings, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Press \triangleright while `>TonerAlert Level >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).



The screenshot shows a rectangular display area with the text `ID` at the top left and a blinking cursor (`_`) below it. There are four pink arrows pointing towards the cursor from the top, bottom, left, and right.

- 3 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the TonerAlert Level settings, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press \triangle or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The TonerAlert Level settings screen appears.



The screenshot shows a rectangular display area with the text `Password` at the top left and a blinking cursor (`_`) below it. There are four pink arrows pointing towards the cursor from the top, bottom, left, and right.

Off/On (Setting toner addition notifications)

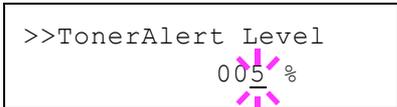
Select whether Toner Alert Level is enabled.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>Off/On` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `On` or `Off` using Δ or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

TonerAlert Level (Setting for the alert level for toner addition)

This sets the level at which toner addition alerts will be displayed.



- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>>TonerAlert Level` appears.
- 2 Press **[OK]**. A blinking cursor () appears.
- 3 Press Δ or ∇ to increase or decrease the value at the blinking cursor and set the level at which an alert will be displayed. The setting is possible between `005` and `100%`. Use \triangleleft and \triangleright to move the cursor right and left.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Security

The security functions can be set up to protect printer operation and the print data.

The options available in Security are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- I/F Block (Interface (external device) block setting)
- WSD-PRINT (WSD-PRINT setting)
- Enhanced WSD (Enhanced WSD setting)
- EnhancedWSD(SSL) (Enhanced WSD (SSL) setting)
- IPP (IPP setting)
- SSL Server (SSL Server setting)
- IPSec (IPSec setting)
- LAN Interface (LAN Interface setting)
- Security Level (Security Level setting)



Note When Command Center RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Command Center RX User Guide*.

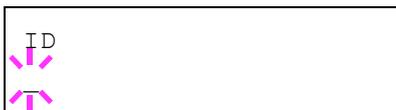
- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Security >` appears.



ID (Administrator ID input)

To use the Security function, you must enter an administrator ID. For information on how to set the administrator ID, refer to **Administrator (Administrator settings)** on page 7-81.

- 1 Press \triangleright while `Security >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).



- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 numbers.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.

Password (Administrator Password input)

To set up the Security functions, you must enter an administrator ID and administrator password. For information on how to set the administrator password, refer to **Administrator (Administrator settings)** on page 7-81.



- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).
- 2 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified password. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 (no settings) and 16 numbers.



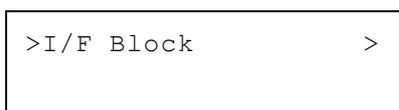
Note If you enter the incorrect administrator ID or password, the message `Wrong ID` or `Wrong Password` appears and the input screen then reappears. Re-enter the ID or password correctly.

- 3 Press **[OK]**. The Security screen appears.

I/F Block (Interface (external device) block setting)

You can use this to lock and thereby protect the interface. The options available in Interface Block are as follows:

- USB Host (USB memory slot setting)
- USB Device (USB interface setting)
- Option I/F (Network interface card setting)
- USB Storage (USB memory setting)

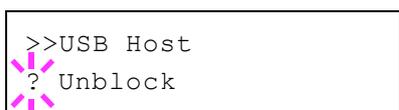


- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>I/F Block >` appears.

USB Host (USB memory slot setting)

This locks and protects the USB memory slot (USB host). The default setting is `Unblock`.

- 1 Press \triangleright while `>I/F Block >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>>USB Host` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select `Block` or `Unblock` using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to `Ready`.

USB Device (USB interface setting)

This locks and protects the USB interface. The default setting is `Unblock`.

- 1 Press \triangleright while `>I/F Block >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>>USB Device` appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.



- 4 Select **Block** or **Unblock** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

Option I/F (Network interface card setting)

This locks and protects the network interface card (NIC). The default setting is *Unblock*.



Note Option I/F is displayed only when the optional network interface is installed on the printer.

- 1 Press \triangleright while *>I/F Block >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>>Option I/F* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

```
>>Option I/F
? Unblock
```

- 4 Select **Block** or **Unblock** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

USB Storage (USB memory setting)

This blocks and protects the USB storage (USB memory). The default setting is *Unblock*.

- 1 Press \triangleright while *>I/F Block >* is displayed.
- 2 Press Δ or ∇ repeatedly until *>>USB Storage* appears.
- 3 Press **[OK]**. A blinking question mark (?) appears.

```
>>USB Storage
? Unblock
```

- 4 Select **Block** or **Unblock** using Δ or ∇ .
- 5 Press **[OK]**.
- 6 Press **[MENU]**. The display returns to *Ready*.

WSD-PRINT (WSD-PRINT setting)

Select whether or not to use WSD Print. The default setting is *On*.

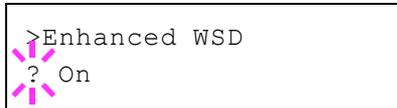
- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>WSD-PRINT* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.

```
>WSD-PRINT
? On
```

- 3 Press Δ or ∇ to select whether WSD-PRINT is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

Enhanced WSD (Enhanced WSD setting)

Set whether to use our proprietary web services. Network driver use this Enhanced WSD Web service. The default setting is *On*.

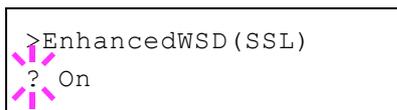


```
>Enhanced WSD
? On
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>Enhanced WSD* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select whether Enhanced WSD is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

EnhancedWSD(SSL) (Enhanced WSD (SSL) setting)

Set whether to use our proprietary web services over SSL. SSL must be set to *On* in **SSL Server (SSL Server setting)** on page 7-77. The default setting is *On*.



```
>EnhancedWSD(SSL)
? On
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>EnhancedWSD(SSL)* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select whether Enhanced WSD (SSL) is enabled.
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

IPP (IPP setting)

IPP (Internet Printing Protocol) is a standard that uses TCP/IP networks such as the Internet to enable print jobs to be sent between remote computers and printers.

IPP is an extension of the HTTP protocol used to view websites and enables printing to be carried out via routers on printers in remote locations. It also supports the HTTP authentication mechanisms along with SSL server and client authentication as well as encryption.

The default setting is *On*.



Note Check with your network administrator when selecting network settings.



```
>IPP
```



```
>IPP
? Off
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until *>IPP* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select *On* or *Off* using Δ or ∇ .

- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

SSL Server (SSL Server setting)

SSL (Secure Sockets Layer) refers to a protocol used to encrypt information sent and received over a network. SSL can currently be used to encrypt data such as the WWW or FTP files widely used on the Internet so that privacy-related information, credit card numbers, corporate secrets and other confidential information can be sent and received safely.

SSL servers use this protocol to authenticate servers and clients.

The default setting is *On*.



Note Check with your network administrator when selecting network settings.

```
>SSL Server >
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>SSL Server >` appears.

```
>SSL Server >
? Off
```

- 2 Press **[OK]**. A blinking question mark (?) appears.

- 3 Select *On* or *Off* using Δ or ∇ .

- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to *Ready*.

DES (SSL Server DES setting)

DES (Data Encryption Standard) is a typical symmetric-key cryptographic algorithm that divides data in to 64-bit blocks and then encrypts each block using a 56-bit key.



Note Symmetric-key cryptography, because it uses the same key for both encryption and decryption, uses the same key in both directions when encrypted data is exchanged. Accordingly, to prevent the key from being divulged, key transfer and storage must be very strictly managed.

The default setting is *Off*.

- 1 Press \triangleright while `>SSL Server On >` is displayed. `>>DES` appears.

- 2 Press **[OK]**. A blinking question mark (?) appears.

```
>>DES
? Off
```

- 3 Select *On* or *Off* using Δ or ∇ .

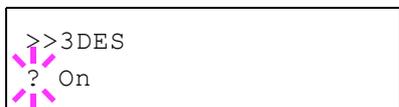
- 4 Press **[OK]**.

- 5 Press **[MENU]**. The display returns to *Ready*.

3DES (SSL Server 3DES setting)

3DES (Triple Data Encryption Standard) is a high level of encryption in which DES encryption is repeated threefold.

The default setting is On.



- 1 Press \triangleright while `>SSL Server On >` is displayed. `>>3DES` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `On` or `Off` using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

AES (SSL Server AES setting)

AES (Advanced Encryption Standard) was developed to replace DES as the standard encryption as the safety of DES has declined. AES is a block encryption system that uses 128-bit blocks and an SPN structure (a typical structure for repeated encryption) with three selectable key lengths of 128, 192 and 256 bits.

The default setting is On.

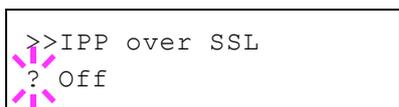


- 1 Press \triangleright while `>SSL Server On >` is displayed. `>>AES` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `On` or `Off` using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

IPP over SSL (SSL Server IPP over SSL setting)

IPP over SSL is an encryption function that uses SSL for communications between users and servers in network printing. To use IPP over SSL, both server and client must support the protocol.

The default setting is On.



- 1 Press \triangleright while `>SSL Server On >` is displayed. `>>IPP over SSL` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Select `On` or `Off` using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

HTTPS (SSL Server HTTPS setting)

HTTPS (HyperText Transfer Protocol Secure) is a protocol that adds SSL data encryption, message authentication and a digital signature function to the HTTP protocol used for data transfer between WWW servers and clients.

S-HTTP is a similar protocol, but HTTPS differs in that it uses SSL.

The default setting is *On*.

- 1 Press \triangleright while *>SSL Server On* is displayed. *>>HTTPS* appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.



- 3 Select *On* or *Off* using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to *Ready*.

IPSec (IPSec setting)

IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.



Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.

The default setting is *Off*.



Note Check with your network administrator when selecting network settings.

- 1 After entering the administrator ID and password, press \triangle or ∇ repeatedly until *>IPSec* appears.



- 2 Press **[OK]**. A blinking question mark (?) appears.



- 3 Select *On* or *Off* using \triangle or ∇ .
- 4 Press **[OK]**.
- 5 Press **[Menu]**. The display returns to *Ready*.

LAN Interface (LAN Interface setting)

Specify the settings for the LAN interface to be used. The default setting is `Auto`.

```
>LAN Interface
  Auto
```

```
>LAN Interface
? Auto
```

- 1 After entering the administrator ID and password, press Δ or ∇ repeatedly until `>LAN Interface` appears.
- 2 Press **[OK]**. A blinking question mark (?) appears.
- 3 Press Δ or ∇ to select the desired LAN Interface. The available LAN Interfaces are as follows:
 - Auto
 - 10Base-Half
 - 10Base-Full
 - 100Base-Half
 - 100Base-Full
 - 1000Base-T
- 4 Press **[OK]**.
- 5 Press **[MENU]**. The display returns to `Ready`.

Security Level (Security Level setting)

`Security Level` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

Administrator (Administrator settings)

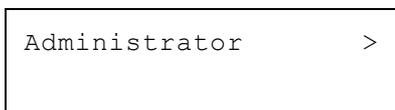
The Administrator setting is a function that identifies a user who can use the printer and manage other users.

When using the Security and Optional Network functions, the administrator ID and password set here are authenticated, and settings can be specified after they are properly authenticated.

The options available in Admin are as follows:

- ID (Administrator ID input)
- Password (Administrator Password input)
- Change ID (Administrator ID change)
- Change Password (Administrator Password change)

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Administrator >` appears.



ID (Administrator ID input)

You can use this to set the administrator ID.

 **Note** The default setting is "3500".

- 1 Press \triangleright while `Administrator >` is displayed.
- 2 The message display shows `ID` and a blinking cursor (`_`).
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the specified ID. Use \triangleleft and \triangleright to move the cursor right and left. Enter an ID consisting of between 1 and 16 digits.
- 4 Press **[OK]**. Proceed to the next step *Password (Administrator Password input)*.



Password (Administrator Password input)

You can use this to set the administrator password.

 **Note** The default setting is "3500".

- 1 Once you have entered the correct ID in the previous step (ID (Administrator ID input)), the message display shows `Password` (Administrator password input) and a blinking cursor (`_`).



Change Password (Administrator Password change)

You can use this to change the administrator password.



- 1 In step 3 in *Password (Administrator Password input)* above, press Δ or ∇ while the *Admin (Change)* screen is displayed until *>Change Password* appears.

IMPORTANT The administrator password is not displayed.

- 2 Press **[OK]**. A blinking cursor ($_$) appears.
- 3 Press Δ or ∇ to increase or decrease, respectively, the value at the blinking cursor. Enter the password to be changed. Use \triangleleft and \triangleright to move the cursor right and left. Enter a password consisting of between 0 and 16 numbers.
- 4 Press **[OK]**. A confirmation screen appears. (E.g.: Where the administrator password is changed to 010)
- 5 Press **[OK]**. The new administrator password is confirmed.
- 6 Press **[MENU]**. The display returns to *Ready*.

Adjust/Maintenance (Adjust/Maintenance selection/setting)

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Restart Printer
- Service (for maintenance)

IMPORTANT *Service* is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

- 1 Press **[MENU]**.
- 2 Press Δ or ∇ repeatedly until `Adjust/Maintenance >` appears.

`Adjust/Maintenance >`

Restart Printer

The procedure described below resets the printer's temporary conditions, such as the current page orientation, font, etc., set by commands to their default values. Downloaded fonts and macros are deleted from the printer's memory.

- 1 Press \triangleright while `Adjust/Maintenance >` is displayed.
- 2 Press Δ or ∇ repeatedly until `>Restart Printer` appears.
- 3 Press **[OK]**. A question mark (?) appears.

`>Restart Printer ?`

- 4 Press **[OK]** again. `Self test` appears while the printer is resetting itself, followed by `Please wait` and then `Ready`.

Service (for maintenance)

The options available in Service are as follows:

- Print Status Page (Printing the service status page)
- Print Network Status Page (Printing the network status page)
- Print Op Network Status Page (Printing the option network status page)
- Print Test Page
- Maintenance (New Maintenance Kit replacement confirmation setting)
- Developer (Initializing the developer unit)

IMPORTANT *Service* is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

- 1 Press \triangleright while *Adjust/Maintenance* > is displayed.
- 2 Press \triangle or ∇ repeatedly until >Service > appears.

```
>Service >
```

Print Status Page (Printing the service status page)

The service status page contains printer settings information that is more detailed than the standard status page and is therefore mostly for service purposes. However, there is a great deal of information on the service status page that may be useful to you.

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Print Status Page appears.
- 3 Press **[OK]**. A question mark (?) appears.

```
>>Print Status Page ?
```

- 4 Press **[OK]** again. *Processing* appears and a service status page is printed out.
- 5 When printing ends, the display returns to *Ready*.

Print Network Status Page (Printing the network status page)

The network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

- 1 Press \triangleright while >Service > is displayed.
- 2 Press \triangle or ∇ repeatedly until >>Print Network Status Page appears.
- 3 Press **[OK]**. A question mark (?) appears.

```
>>Print  
Network Status Page?
```

- 4 Press **[OK]** again. *Processing* appears and a network status page is printed out.
- 5 When printing ends, the display returns to *Ready*.

Print Op Network Status Page (Printing the option network status page)

The option network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

```
>>Print Op  
Network Status Page?
```

- 1 Press \triangleright while `>Service >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Print Op Network Status Page` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. `Processing` appears and an option network status page is printed out.
- 5 When printing ends, the display returns to `Ready`.

Print Test Page

The test page is printed to check the effectiveness of printer adjustments. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

```
>>Print Test Page ?
```

- 1 Press \triangleright while `>Service >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Print Test Page` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. `Processing` appears and a test page is printed out.
- 5 When printing ends, the display returns to `Ready`.

Maintenance (New Maintenance Kit replacement confirmation setting)

This specifies the setting for confirmation of replacement with the new Maintenance Kit (resets the total number of Maintenance Kit print images). This is primarily used for maintenance by service personnel.



Note The `Maintenance` menu is displayed only when `Replace MK` appears.

```
>>Maintenance ?
```

- 1 Press \triangleright while `>Service >` is displayed.
- 2 Press \triangle or ∇ repeatedly until `>>Maintenance` appears.
- 3 Press **[OK]**. A question mark (?) appears.
- 4 Press **[OK]** again. The confirmation of replacement with the new Maintenance Kit is set.
- 5 When the replacement ends, the display returns to `Ready`.

Developer (Initializing the developer unit)

The replaced developer can be automatically fill up the toner using this menu when a toner container is installed and the printer is turned on. This is primarily used for maintenance by service representative.

8 Option

This chapter explains the options for this printer.

General Information	8-2
Expansion Memory Modules	8-3
Paper Feeder (PF-100)	8-5
Network Interface Kit (IB-50)	8-5
Wireless Network Interface Kit (IB-51)	8-5
USB Flash Memory	8-5

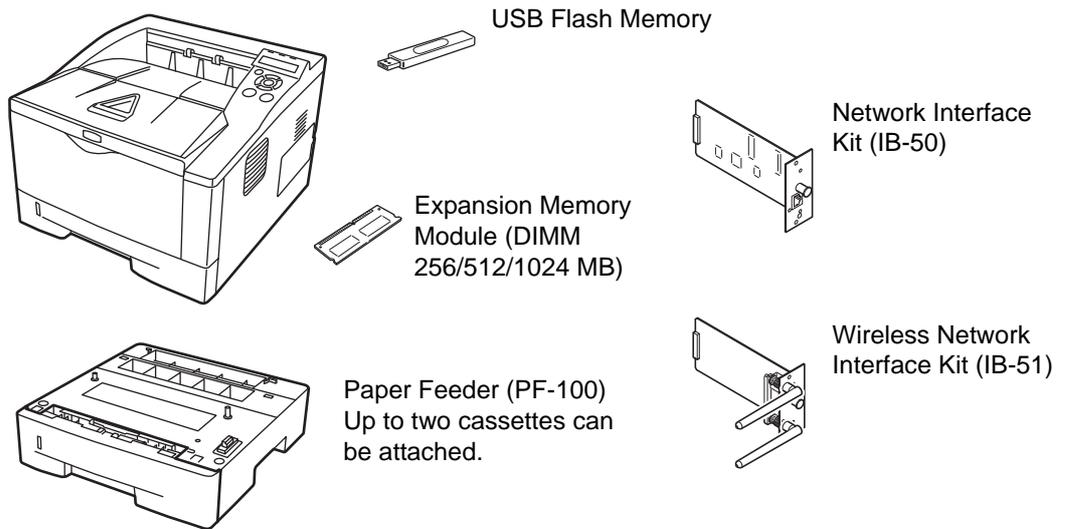
General Information

The printers have the following options available to satisfy your printing requirements.



Note Install the memory module before installing the optional paper feeder (PF-100).

For instructions on installing individual options, refer to the documentation included with the option. Some options are explained in the following sections.



Expansion Memory Modules

To expand the printer memory for more complex print jobs and faster print speed, you can plug in optional memory module (dual in line memory module) in the memory slot provided on the printer main controller board. You can select additional memory module from 256, 512, or 1024 MB. The maximum memory size is 1280 MB.



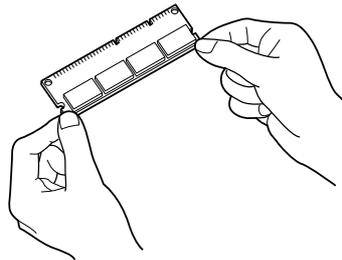
Note The expansion memory should only be installed by your service technician. We shall not be liable for any damages caused by improper installation of expansion memory.

Precautions for Handling the Printer's Main Controller Board and Memory Module

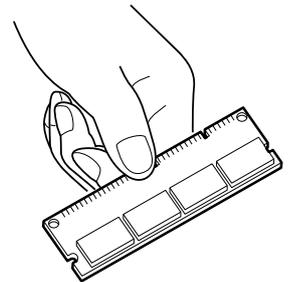
To protect electronic parts, discharge static electricity from your body by touching a water pipe (faucet) or other large metal object before handling the memory module. Or, wear an antistatic wrist strap, if possible, when you install the memory module.

Always hold the main controller board or a memory module by its edges as shown below to avoid damaging electronic parts.

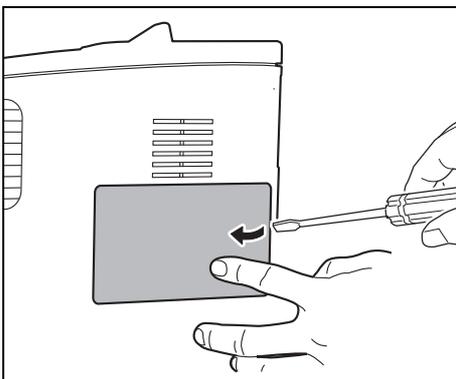
Correct



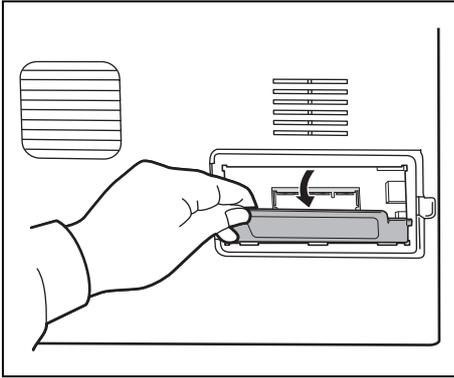
Incorrect



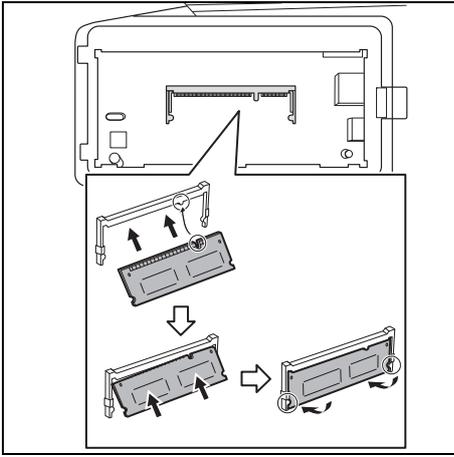
Installing the Memory Module



- 1 Turn off the printer and disconnect the power cord and printer cable.
- 2 Remove the right cover as shown in the figure.



3 Remove the fixing tape in case of the first installation. Then, remove the memory slot cover as shown in the figure.



4 Remove the memory module from its package.

5 Aligning the cutouts of the memory module with the matching keys of the socket, carefully plug the memory module into the memory socket until it clicks in place. Then, push down the memory module to secure.



CAUTION Before inserting a memory module in the printer, make sure that the printer is switched off.

6 Push down the memory module to secure.

7 Reinstall the memory slot cover and the right cover.

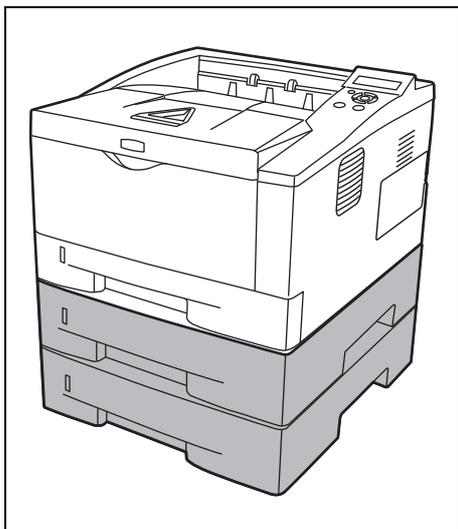
Removing a Memory Module

To remove a memory module, remove the right cover and the memory slot cover from the printer. Then, carefully push out the two socket clamps. Ease the memory module out of the socket to remove.

Verifying the expanded memory

To verify that the memory module is working properly, test it by printing a status page.

Paper Feeder (PF-100)

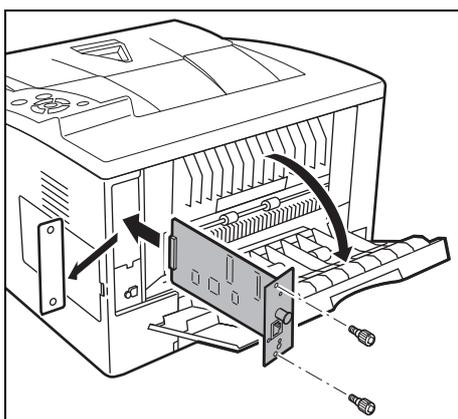


The PF-100 allows you to add two more paper cassette to the bottom of the printer for continuous feeding of a large volume of paper. Each paper cassette can hold up to approximately 250 sheets of ISO A4, ISO A5, JIS B5, Letter, or Legal size (80g/m²) paper. This feeder is attached at the bottom of the printer as shown on the left.



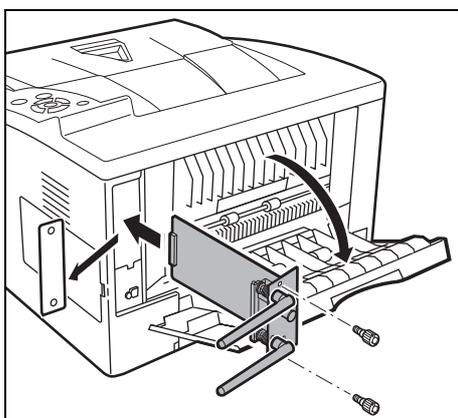
CAUTION Before attaching the PF-100 to the printer, make sure that the printer is switched off.

Network Interface Kit (IB-50)



The network interface kit is a high-speed interface for communications speeds of 1 gigabit per second. In addition to the TCP/IP and NetBEUI supported by the machine's standard network interface, it also supports IPX/SPX and Apple Talk, so network printing becomes possible in various environments, including Windows, Macintosh, UNIX and Netware. For details, refer to *IB-50 User's Manual*.

Wireless Network Interface Kit (IB-51)



This is a wireless network interface kit which supports the wireless network specifications IEEE802.11n (Max 300 Mbps) and 11 g/b.

With the utilities supplied, settings are possible for a variety of OS and network protocols. For details, refer to *IB-51 User's Manual*.

USB Flash Memory

See your dealer for purchasing information of this optional device that are best suited for use with this printer.

9 Computer Interface

This chapter contains explanations on the following topics:

General Information	9-2
USB Interface	9-2
Network Interface	9-3

General Information

This chapter explains the connector specifications of USB and network interfaces.

USB Interface

This printer supports the Hi-Speed USB. USB (Universal Serial Bus) interface specifications are as follows.

Specifications

Basic specification

Complies with the Universal Serial Bus Specification Revision 2.0.

Connectors

Printer: B-type receptacle (female) with upstream port

Cable: B-type plug (male)

Cable

Use a shielded cable that complies with USB 2.0 (Hi-Speed USB) and not longer than 5 meters (16 feet).

Transfer Mode

High speed (480 Mbps maximum)

Full-Speed (12 Mbps maximum)

Power Control

Self-power device

Interface Signals

USB Connector Pin Assignment

Pin	Signal	Description
1	Vbus	Power supply (+5 V)
2	D-	Data transmission
3	D+	Data transmission
4	GND	Signal ground
Shell	—	Shield

Network Interface

Features

Automatic IP address resolution

This feature is compatible with the DHCP/DHCPv6 protocol and allows the printer to automatically receive IP addresses from the DHCP/DHCPv6 server.

Management using Web browsers

HTTP pages are incorporated in to the interface, so that a web browser can be used to monitor and change a range of settings. The settings can be password-protected.

Support for a range of protocols

The SMTP, POP3, SSL, SNMP, IPv6 and NetBIOS over TCP/IP protocols are supported for easier printer management and more robust security.

Support for IEEE 802.1x

The interface supports EAP-TLS and PEAP authentication.

Supports IPv6

Supports IPv6, which is based on IPv4 with improvements, such as increased manageable address space, additional security functions and priority based data transmission.

Supports IPSec

Supports IPSec, the security protocol that authenticates and encrypts in the network layer (IP layer).

Specifications

Connector

10 Base-T/100 Base-TX/1000 BASE-T

Operating Systems

Windows XP/Vista/7/8/Server2003/2008/2012 R2, MacOS 10.5 or later

Network protocols

- IPv6: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMPv6, LLTD, SNTP, DHCPv6, SMTP, POP3, DNS, SNMPv1/v2c/v3, IPPS, WSD
- IPv4: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMP, DHCP, SMTP, POP3, SNTP, DNS, WINS, NetBIOS over TCP/IP, SNMPv1/v2c/v3, Bonjour, IPPS, LLTD, WSD
- Etc.: IPX/SPX, NetWare (NDS/Bindery), NetBEUI

Security Protocols

SSL/TLS (HTTPS, IPPS), SNMPv3, EAP-TLS, PEAP, AH, ESP

EMI Countermeasures

VCCI Class B, FCC Class B (U.S.), CE (Europe)

IMPORTANT When IPv6 functions are used, the devices used on the network (routers, PCs, etc) must support IPv6.

10 Appendix

This section lists the following information of this printer.

Specifications	10-2
Environmental Standard Requirements	10-4

Specifications



Note These specifications are subject to change without notice.

Item		Description
Type		Desktop
Printing Method		Electrophotography, laser scan
Paper Weight	Cassette	60 to 120 g/m ² (Duplex: 60 to 105 g/m ²)
	MP Tray	60 to 220 g/m ²
Paper Type	Cassette	Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color (Colour), Prepunched, High Quality, Custom 1 to 8
	MP Tray	Plain, Transparency, Preprinted, Labels, Bond, Recycled, Rough, Vellum, Letterhead, Color (Colour), Prepunched, Envelope, Cardstock, Thick paper, High Quality, Custom 1 to 8
Paper Size	Cassette	Envelope C5, Executive, Letter, Legal , A4, B5, A5, A6, ISO B5, Custom, Oficio II, 216 × 340 mm, 16K, Statement, Folio
	Paper Feeder	Envelope C5, Executive, Letter, Legal , A4, B5, A5, ISO B5, Custom, Oficio II, 216 × 340 mm, 16K, Statement, Folio
	MP Tray	Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal, A4, B5, A5, A6, B6, Envelope #9, Envelope #6, ISO B5, Custom, Hagaki, Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2, Youkei 4
Printing Speed	Simplex	A4/Letter: 35 ppm/37 ppm
		A5: 17 ppm
	Duplex	A4/Letter: 19 ppm/20 ppm
First Print Time (A4, feed from Cassette)		8 seconds or less
Warm-up Time (22°C/71.6°F, 60 %RH)	Power on	16.5 seconds or less
	Sleep	16.5 seconds or less
Paper Capacity	Cassette (1 to 3)	250 sheets (80 g/m ² , 11 × 8 1/2"/A4 or smaller)
	MP Tray	50 sheets (80 g/m ² , 11 × 8 1/2"/A4 or smaller)
Output Tray Capacity	Simplex	250 sheets (80 g/m ²)
	Duplex	200 sheets (80 g/m ²)
Continuous printing		1 to 999 sheets
Resolution		Fine 1200 mode, Fast 1200 mode, 600 dpi, 300 dpi
Operating Environment	Temperature	10 to 32.5°C/50 to 90.5°F
	Humidity	15 to 80 %
	Altitude	2,500 m/8,202 ft maximum
	Brightness	1,500 lux maximum
Supported OS		Microsoft Windows 2000/XP/Vista/7/8, Windows Server 2003/2008/2012 R2 Mac OS X 10.5 or later

Item		Description
Interface	USB	USB Interface: 1 USB Memory Slot: 1
	Network	Network Interface: 1 (10 BASE-T/100 BASE-TX/1000BASE-T)
	Option	eKUIO slot: 1
PDL		PRESCRIBE
Emulation		PCL 6, KPDL, KPDL (AUTO), Line Printer, IBM Proprinter, EPSON LQ-850
Memory	Standard	256 MB
	Maximum	1280 MB
Dimension (W x D x H)		375 x 393 x 267 mm 14 3/4 x 15 1/2 x 10 1/2"
Weight (without toner container)		12 kg/26.5 lb
Power Requirements		120 V AC, 60 Hz, 8.0 A/220 to 240 V AC, 50/60 Hz, 4.2 A
Power Consumption	Maximum	931 W
	During printing	519 W (U.S.A./Canada), 499 W (European countries)
	During standby	10.6 W (U.S.A./Canada), 11 W (European countries) when EcoFuser is On.
		64.2 W (U.S.A./Canada), 61.8 W (European countries) when EcoFuser is Off.
	Sleep mode	2.9 W (U.S.A./Canada), 2.5 W (European countries)
Power off	0.1 W or less	
Options		Expanded memory, Paper Feeder (250-sheet x 2)

Environmental Standard Requirements

This machine conforms to the following environmental standard requirements.

- Time for switching to Sleep mode (default): 15 minutes (For Europe), 1 minute (Except for Europe)
- Time for switching to Low power mode (default): 1 minute
- Duplex Printing: Standard Equipment
- Durable paper for feeding: Paper made of 100 % recycled paper



Note Contact your dealer or service representative for recommended paper types.

Glossary

Additional memory

An additional memory (optional) is used for increasing the memory capacity of this machine. For DIMM that can be used in this machine, contact your service technician.

AppleTalk

AppleTalk offers file sharing and printer sharing and it also enables you to utilize application software that is on another computer on the same AppleTalk network.

Default Gateway

This indicates the device, such as a computer or router, that serves as the entrance/exit (gateway) for accessing computers outside of the network that you are on. When no specific gateway is designated for a destination IP address, data is sent to the host that is designated as the Default Gateway.

DHCP (Dynamic Host Configuration Protocol)

This is a protocol that automatically resolves the IP address, Subnet Mask and Gateway address on a TCP/IP network. Use of DHCP minimizes the load of network administration, especially on network environments with a large number of client computers where it is not specifically necessary to assign a separate IP address to each client, including printers.

dpi (dots per inch)

This indicates the number of dots printed per inch (25.4 mm) as a unit for expressing resolution.

EcoPrint

This is a printing mode that reduces toner consumption. Pages printed in the EcoPrint mode are lighter than pages printed in the normal mode.

Emulation

This refers to emulation of other manufacturers' printers. The printer emulates operation of the following printers: PCL 6, KPD L, KPD L (AUTO), Line Printer, IBM Proprinter and EPSON LQ-850

Form Feed Timeout

While data is being sent to a printer, some pauses may occur. At this time, the printer waits for the next data without making a page break. Form feed timeout is a function to wait only a preset amount of time before it executes an automatic page break. After the waiting period begins, once the designated amount of time is exceeded, the printer will automatically process the currently received data and print it out. If the machine has received no print data for the last page, the printer ends processing of that job without outputting paper.

IP Address (Internet Protocol Address)

The Internet Protocol address is a unique number that represents a specific computer in a network. The format of an IP Address is four numbers separated by dots, e.g. 192.168.110.171. Each number should be a decimal between 0 and 255.

KPDL

KPDL is Kyocera's implementation of the PostScript page description language Level3.

MP Tray

This tray is used instead of the cassette when printing on envelopes, postcards, transparency sheets, and labels.

NetBEUI (NetBIOS Extended User Interface)

An enhanced version of the NetBIOS protocol, it enables the utilization of more advanced functions on small-scale networks than do other protocols such as TCP/IP, etc.

Outline font

With outline fonts, character outlines are represented with numerical expressions and fonts can be enlarged or reduced in different ways by changing the numeric values of those expressions. Printing remains clear even if you enlarge fonts, since the characters are defined with outlines represented with numerical expressions. You can specify the font size in steps of 0.25 points up to 999.75 points.

PostScript

This is a page description language developed by Adobe Systems, Inc. It enables flexible font functions and highly-functional graphics, allowing higher quality printing.

PPM (prints per minute)

This indicates the number of printouts made in one minute.

Printer driver

The printer driver makes it possible for you to print data created using application software. The printer driver for the printer is contained on the DVD-ROM supplied with the printer. Install the printer driver on the computer connected to the printer.

Sleep mode

This mode is provided to save power. It is activated when the machine is not used for a preset period of time. In this mode, power is reduced to the minimum. The default setting can be changed.

Status page

This lists machine conditions, such as the machine's memory, the total number of prints and paper source settings. You can print the status page from the operation panel.

Subnet Mask

This is a 32-bit numerical value that defines which bits of the IP address specify the network address and which specify the host address.

TCP/IP (Transmission Control Protocol/Internet Protocol)

TCP/IP is a suite of protocols designed to define the way computers and other devices communicate with each other over a network.

USB (Universal Serial Bus) 2.0

A USB interface standard for Hi-Speed USB 2.0. The maximum transfer rate is 480 Mbps. This machine is equipped with USB 2.0 for high-speed data transfer.

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