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You can read the recommendations in the user guide, the technical guide or the installation guide for KYOCERA FS-1100. You'll find the answers to all your questions on the KYOCERA FS-1100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual KYOCERA FS-1100
User guide KYOCERA FS-1100
Operating instructions KYOCERA FS-1100
Instructions for use KYOCERA FS-1100
Instruction manual KYOCERA FS-1100

OPERATION GUIDE

FS-1100
FS-1300D



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x Caution Labels The printer bears any of the following labels. Laser inside the printer (Laser radiation warning) FS-1300D FS-1100 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. xi CE Marking Directive Hereby,

Kyocera Mita Corporation, declares that this page printer is in compliance with the essential requirements and other relevant provisions of Directive

1999/5/EC. According to Council Directive 2004/108/EC, 2006/95/EC, and 1999/5/EC Manufacturer: Kyocera Mita Corporation Tamaki Plant Manufacturer's address: 704-19, Nojino, Tamaki-cho, Watarai-gun, Mieken 519-0497, Japan Declares that the product Product name: Page Printer Model number: FS-1100 and FS-1300D (as tested with enhancement optional unit; Paper Feeder PF-100) Conforms to the following product specifications: EN 55 022:1998+A1:2000+A2:2003 Class B EN 61 000-3-2:2000 EN 61 000-3-3:1995+A1:2001 EN 55 024:1998+A1:2001+A2:2003 EN 60 950-1:2001+A11 EN 60 825-1:1994+A1+A2 EN 300330-1 EN 300330-2 The manufacturer and its merchandising companies retain the following technical documentation in anticipation of the inspection that may be conducted by the authorities concerned: User's instruction that conforms to the applicable specifications.

Technical drawings. Descriptions of procedures that guarantee conformity. Other technical information. EN ISO 7779 Maschinenlärminformations-Verordnung 3.

GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779. Disclaimer Kyocera Mita will not be liable to customers or any other person or entity for any loss or damage caused or alleged to be caused directly or indirectly by equipment sold or furnished by us, including but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use or operation of the equipment or software. xii Energy Saving Function This printer comes equipped with a Sleep Mode where printer function remains in a waiting state but power consumption is still reduced to a minimum when there is no activity with the printer within a set amount of time.

Sleep Mode This printer automatically enters Sleep Mode when approximately 15 minutes have passed since the printer was last used. The amount of time of no activity that must pass before Sleep Mode is activated may be lengthened. Duplex Printing (For FS-1300D only) This printer includes duplex printing as a standard function. For example, by printing two single-sided originals onto a single sheet of paper as a duplex printing, it is possible to lower the amount of paper used. Recycled Paper This printer supports recycled paper which reduces the load on the environment.

Your sales or service representative can provide information about recommended paper types. Energy Star (ENERGY STAR®) Program (For FS-1300D only)

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. xiii 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.



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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) xiv 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. 7-7/8" (200mm) 11-13/16" (300mm) 11-13/16" 7-7/8" (300mm) (200mm) 19-11/16" (500mm) 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. xv 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. xvi 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 () 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 () 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. xvii 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.



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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 the Toner Container. Dangerous sparks may cause burns.

Keep the Toner Container out of the reach of children. If toner happens to spill from the Toner Container, 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 the Toner Container.

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. xviii 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 CD-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 Options This chapter explains the options for this printer. 7 Specifications This chapter lists the specifications of this printer.

Introduction-xix Conventions in This Guide This manual uses the following conventions. Convention *Italic Typeface* **Bold Bracket** **Bold Description** Example Used to emphasize a key word, Load the paper in the cassette. phrase or reference to additional Refer to Configuration Tool on page 3-9. information. Used to denote buttons on the software.

To start printing, click OK. Used to denote operation panel Printing resumes when the [GO] is keys. pressed. Used to provide additional or useful information about a function or feature. Used to provide important information.

Note Do not remove the toner container from the carton until you are ready to install it in the printer. Note Important IMPORTANT Take care not to touch the transfer roller (black) during cleaning. Caution Cautions are statements that CAUTION When pulling the paper, pull suggest mechanical damage as it gently so as not to tear it. Torn pieces a result of an action. 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. IMPORTANT If you ship the printer, remove and pack the process unit and drum unit in a plastic bag and ship them separately from the printer. Introduction-xx 1 Machine Parts This chapter identifies machine parts, indicators, and operation panel keys. Components at the Front of the Printer Components at the Rear of the Printer Operation Panel Indicators Keys 1-2 1-3 1-4 1-5 1-6 Machine Parts 1-1

Components at the Front of the Printer FS-1100 1 2 3 4 5 8 7 6 FS-1300D 1 2 3 4 5 10 9 7 6 1 2 3 4 5 6 7 8 9 10 Top Cover Paper Stopper Top Tray Operation Panel Right Cover Paper Cassette Front Cover Manual Feed MP Tray Subtray 1-2 Machine Parts Components at the Rear of the Printer 11 12 13 14 15 11 12 13 14 15 Optional Interface Slot Cover USB Interface Connector Rear Cover Power Cord Connector Power Switch Machine Parts 1-3 Operation Panel 1 6 2 3 5 4 7 8 1 2 3 4 5 6 7 8 Ready Indicator Attention Indicator Toner Indicator Data Indicator Paper Indicator Jam Indicator [Cancel] Key [GO]

Key 1-4 Machine Parts Indicators There are six indicators located on the top right of the printer. The indicators are used to identify the status of the printer at any time.

To identify the printer status, check the indicators on the printer and then refer to the table below. Indicator Ready (Green) Status Lit Fast Flashing Slow Flashing Off Data (Green) Lit Fast Flashing Off Meaning Indicates online status (printing is possible). Offline status. You cannot print, but the printer can receive data. The printer is in sleep mode. The printer has stopped because an error occurred. The printer is processing data or is accessing to memory. The printer is receiving data. The printer is not processing data. Jam (Amber) Lit Off A paper jam has occurred or the cassette is not inserted properly.

The printer status is normal. Paper (Amber) Lit Fast Flashing Off The paper has run out when printing. The specified cassette or paper feeder has no paper at Ready status. The cassette is not inserted properly. The printer status is normal.

An error has occurred because the top printer cover is open. While an optional paper feeder (PF-100) is installed and the feeder is selected as a paper source, the paper cassette of the main unit (CASS1) is not installed correctly. The warning status other than Jam, Toner, Paper, and Attention. The printer status is normal. The printer has stopped because the toner is exhausted.

The toner is running low. The printer status is normal. Attention (Amber) Lit Fast Flashing Off Toner (Amber) Lit Fast Flashing Off Note For other combinations of the six indicators, call for service. Status Monitor (software bundled with the KX driver) will provide more detailed information about the printer status. Machine Parts 1-5 Keys Refer to the following table for the name and description of the basic functions of each key. Key Cancel GO Status At

Ready Operation Press for 1 second or more Press momentarily Press for 3 to 9 seconds Press for 10 seconds or more At Error Paper Empty Press momentarily Press momentarily Function Cancels the data from the PC Switches On-line/Off-line Prints the status page. Prints the service status page. Clears the error. Resumes printing by switching automatically to an available paper source. 1-6 Machine Parts 2 Loading Paper This chapter explains paper specifications for this printer and how to load paper into the cassette or MP tray.



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Paper Specifications Preparing the Paper Loading Paper into Cassette Loading Paper into MP (Multi-Purpose) Tray 2-2 2-11 2-11 2-14 Loading Paper 2-1
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, troublefree 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 Weight Thickness Dimensional Accuracy Squareness of Corners Moisture Content Direction of Grain Pulp Content Specifications Cassette: 60 to 120 g/m² (16 to 31.9 lb/ream) MP tray: 60 to 220 g/m² (16 to 58.5 lb/ream) 0.086 to 0.110mm (3.4 to 4.3 mils) ±0.7 mm (±0.0276 inches) 90±0.2° 4 to 6% Long grain 80% or more 2-2 Loading Paper 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 148mm (5-13/16 inches) Minimum Paper Size 148mm (5-13/16 inches) Minimum Paper Size 356mm (14 inches) 105mm (4-1/8 inches) 356mm (14 inches) 70mm (2-3/4 inches) Maximum Paper Size Maximum Paper Size 216mm (8-1/2 inches) 216mm (8-1/2 inches) Note The minimum paper size of the optional paper feeder (PF100) is 148 x 210 mm (5-13/16 x 8-5/16 inches).

Loading Paper 2-3 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 coated or 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 ±0.7mm for the length and width. The angle at the corners must be 90° ±0.2°. MP Tray: Envelope Monarch, Envelope #10, Envelope #9, Envelope #6, Envelope C5, Envelope DL, Legal, Letter, Statement, Oficio II, Executive, ISO A4, ISO A5, ISO A6, Folio, ISO B5, JIS B5, JIS B6, Hagaki, Ofuku-Hagaki, Youkei 2, Youkei 4, 16 kai, Custom (70 × 148 to 216 × 356mm (2-13/16 × 5-13/16 to 8-1/2 × 14 inches)) Note If the length of custom paper is larger than 297mm (11-11/16 inches), the printer can be specified ISO A4, Oficio II, Folio, and Legal as the standard paper size.

Cassette: Legal, Letter, Statement, Oficio II, Executive, ISO A4, ISO A5, A6 (only for machine's paper cassette), Folio, ISO B5, JIS B5, Envelope C5, 16 kai, Custom (Paper Cassette: 105 × 148 to 216 × 356mm (4-1/8 × 5-13/16 to 8-1/2 × 14 inches), Paper Feeder: 148 × 210 to 216 × 356mm (5-13/16 × 8-5/16 to 8-1/2 × 14 inches)) Note If the length of custom paper is larger than 297mm (11-11/16 inches), the printer can be specified ISO A4, Oficio II, Folio, and Legal as the standard paper size. 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.)

2-4 Loading Paper 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. The recommended basis weight is between 60 and 120g/m² (16 to 31.9 lb/ream) for the cassette and between 60 and 220g/m² (16 to 59 lb/ream) for the MP tray. 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) 16 17 20 21 22 24 27 28 32 34 36 39 42 43 47 53 Europe Metric Weight (g/m²) 60 64 75 80 81 90 100 105 120 128 135 148 157 163 176 199 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. The correct thickness is 0.086 to 0.110mm (3.4 to 4.3 mils). 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. Loading Paper 2-5 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.



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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. 2-6 Loading Paper Special Paper The following types of special paper can be used: Thin paper (60 to 64 g/m²) Thick paper (90 to 220 g/m²) Colored paper Recycled paper Overhead projector transparencies Cardstock Coated paper Envelopes Labels Use paper that is sold specifically for use with copiers or printers (heatfusing type).

When using transparencies, labels, envelopes, cardstock, coated, 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. 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. 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 Top sheet (white sheet is printed on. The bond paper) adhesive layer consists of Adhesive pressure-sensitive adhesives. The carrier sheet (also called Carrier sheet the linear or backing sheet) holds the labels until used. Due to the complexity of its composition, adhesivebacked 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.

Loading Paper 2-7 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. Acceptable Top sheet Unacceptable Carrier sheet The table below lists the specifications for adhesive label paper. Item

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

5 to 5.7 mils) 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. 2-8

Loading Paper 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.



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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. Loading Paper 2-9 Paper Type The printer is capable of printing under the optimum setting for the type of paper being used.

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. Paper type can be changed using the printer driver and Configuration Tool. The following types of paper can be used. Paper source Paper Type Paper Cassette Yes No Yes No Yes Yes No Yes Yes Yes No No No Yes Yes Paper Weight Range 64 to 90g/m2 Transparency 75 to 90g/m 2 MP tray Duplex path (MP tray available only Display in Status in Cassette mode) Monitor Normal2 Extra Heavy Normal2 Heavy1 Normal3 Normal2 Light Normal3 Normal3 Normal2 Heavy3 Heavy3 Heavy3 Normal2 Normal2 Yes No Yes No Yes No Yes No Yes No Yes No No No Yes Yes Plain Transparency Preprinted Labels Bond Recycled Vellum Rough Letterhead Color Prepunched Envelope Cardstock Thick High quality Custom 1 (to 8) * Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes 105 to 135g/m2 90 to 105g/m2 2 75 to 90g/m Less than 64g/m2 90 to 105g/m2 75 to 90g/m2 75 to 90g/m2 75 to 90g/m2 135 to 170g/m2 135 to 170g/m 135 to 2 170g/m2 75 to 90g/m2 75 to 220g/m2 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 Status Monitor on page 3-10. 2-10 Loading Paper 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 Press the bottom plate down until it locks. Loading Paper 2-11 3 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. @@@@On the other hand, FS-1100 can one sheet into the Manual Feed. @@Standard paper sizes are marked on the MP tray or Manual Feed. @@@@Printed sheets will then come out flat (for FS-1300D only). @@@@Press the Power Switch to On (1). @@@@If AutoPlay screen appears, click Run Setup.exe.

The Notice screen appears. @@Installation Method screen appears. Note In Windows XP, click Install Software to start the Installation wizard. Click Next to display the Installation Method screen. 5 · · Select Express Mode or Custom Mode as the installation method.

Express Mode: If the printer is connected via USB or a network and is turned on, the installer detects the printer. Select Express Mode to perform a standard installation. Custom Mode: This option allows you to select items to be installed as required and to specify the port. Proceed the section below according to the installation method. Connecting and Printing 3-3 Express Mode When selecting Express Mode, printer driver and fonts are installed.

After installing with this mode, the other utilities can be added using Custom Mode. On Installation Method screen, click Express Mode. The installer searches the connected printers on Discover Printing System screen. If no printer is discovered, ensure the printer is plugged in and connected to the computer's USB or Network port, then click Refresh to search printers again. Note If Found New Hardware window appears, click Cancel. 1 2 Select the printer you want to install, and click Next. 3 Confirm the settings and click Install. Printer driver installation starts. Note If the Windows Security screen appears, click Install this driver software anyway to proceed installation. If the Hardware Installation screen appears in Windows XP, click Continue Anyway.

4 Installation Completed screen appears. Click Finish to return to the main menu. 3-4 Connecting and Printing Custom Mode When selecting Custom Mode, printer port and utilities are changed as necessary. 1 On Installation Method screen, click Custom Mode. 2 On Driver tab and Utility tab of the Custom Installation screen, select the printer driver and utilities you want to install, and click Next. 3 On Printer Port screen, select the printer port connected to the printer, click Next. Note Click Add Port to add new port as necessary. 4 Confirm the settings and click Install. Printer driver installation starts. Note If the Windows Security screen appears, click Install this driver software anyway to proceed installation.

If the Hardware Installation screen appears in Windows XP, click Continue Anyway. 5 Installation Completed screen appears. Click Finish to return to the main menu. Connecting and Printing 3-5 Installing the Printer Driver on Mac OS This section explains how to install the printer driver in Mac OS. 1 2 3 4 5 6 Ensure the printer is connected to the computer's USB or Network port before installing software from the CD-ROM.

Insert the CD-ROM (Product Library) into the CD-ROM drive. Double-click the CD-ROM icon. Double-click OS X 10.2 and 10.3 Only or OS X 10.4 according to OS version you use. Double-click Kyocera OS X x.x or Kyocera OS X 10.4 x.x. Printer driver installation starts. Install the printer driver according to the instructions of Installer. 3-6 Connecting and Printing 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 CD-ROM (Product Library).

For more information, refer to the KX Driver User Guide. About KX Driver KX Driver consists of the following tabs.



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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 to set up and add watermarks to your output.

This tab incorporates the PRESCRIBE commands into the document. 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. Note You can also select the various settings by clicking Properties to open the Properties dialog box. 1 2 3 4 Load the paper required into the paper cassette.

From the application File menu, select Print. The Print dialog box appears. Click the drop-down list of printer names. All the installed printers are listed. Click the name of the printer.

Use Number of copies to enter the number of copies required. Up to 999 copies can be printed. For Microsoft Word, we recommend that you click Options and specify Use printer settings for the Default tray. To start printing, click OK. 5 Connecting and Printing 3-7 Manual Duplex (For FS-1100 only) Use Manual Duplex if you require printing on both sides of the paper. The even pages are printed first and then reloaded to print the odd pages. An instruction sheet is available to assist with loading the sheets in the correct orientation and order. Note Ensure Print manual duplex instructions is selected to receive the instruction sheet. Continue to use the sheet until you are familiar with this feature. 1 Ensure Cassette 1 is selected as the Source in the Print Properties dialog box.

2 Select Print on Both Sides (Manual Duplex). Select Gutter Settings on Layout tab and enter the value required for each edge. Gutter width range is 5.00 to 25.4mm (0.20 to 1.00 inch). Select Reduce Image to fit as required. Select Print on both side (manual duplex), and use the Duplex Details option to select Flip on Long Edge for binding on the long edge or Flip on Short Edge for binding on the short edge. Select Print manual duplex instructions to receive the reloading instructions.

3 Select OK to return to the Print dialog box and select OK to start printing. A Manual Duplex instruction message box displays. The even pages are printed including the instruction sheet. Note Nothing will be printed on the instruction sheet. 4 Remove all the even pages (including the instruction sheet) from the output tray, fan through the sheets to separate them prior to loading.

3-8 Connecting and Printing 5 Load the even pages printed into the paper cassette with the instruction sheet facing up and the arrows pointing toward the printer. Long Edge Binding Short Edge Binding Note If the paper is considerably curled in one direction, roll the paper in the opposite direction to counteract the curl. If this will not cancel the curl satisfactorily, try to reduce the number of sheets loaded in the paper cassette to the maximum of 100. 6 Select OK on the Manual Duplex instruction message box. All the odd pages will be printed.

Connecting and Printing 3-9 Status Monitor The Status Monitor monitors the printer status and provides an ongoing reporting function. It also allows you to specify and modify settings for printers not included in the KX driver. The Status Monitor is installed automatically during KX driver installation. Accessing the Status Monitor Use either of the methods listed below to launch the Status Monitor. · Launch when printing starts: When you specify a printer and start a print job, one Status Monitor is launched for each printer name. If Status Monitor startup is requested from multiple printers, Status Monitors are launched for each printer that issues the request. Launch from the KX driver properties: Right-click the Version Info button in the KX driver Properties dialog box. Then click Status Monitor in the Version Info dialog box to launch the Status Monitor. · Exiting the Status Monitor Use either of the methods listed below to exit the Status Monitor. · Exit manually: Right-click the Status Monitor icon in the taskbar and select Exit in the menu to exit the Status Monitor.

Exit automatically: The Status Monitor automatically shuts down after 5 minutes if it is not being used. Screen Overview The screen overview of the Status Monitor is as follows. Pop-up window 3D View Status Monitor icon Pop-up window If an information notification event occurs, a pop-up window appears. This window only appears when the 3D View is open on the desktop. 3D View This shows the status of the monitored printer as a 3D image. You can choose whether to show or hide the 3D view from the menu displayed when you right-click the Status Monitor icon. 3-10 Connecting and Printing If an information notification event occurs, the 3D view and an alert sound are used to notify you. For information on the sound notification settings, refer to Status Monitor Settings on page 3-12. Status Monitor icon The Status Monitor icon is displayed in the taskbar notification area when the Status Monitor is running. When you position the cursor over the icon, the printer name appears.

Connecting and Printing 3-11 Status Monitor Settings The Status Monitor has two tabs to configure its settings. Use the Preference option to set up the Status Monitor. Sound Notification Tab The Event Notification tab contains the following items. IMPORTANT To confirm the settings on Sound Notification tab, the computer requires the sound capabilities such as sound card and speaker. Enable Event Notification Select to enable or disable monitoring the events in Available events.

Sound file A sound file can be selected if you require an audible notification. Click Browse to search for the sound file. Use Text to speech Select this check box to enter text you would like to hear played for events. Although a sound file is unnecessary, this function is applicable for Windows XP. To use this function, follow these steps.

1 2 Select Enable Event Notification. Click Browse to notify the event by sound file. Note The available file format is WAV. Select Use Text to speech to speech the text entered in Text to speech box when an event occurred. 3 4 Select an event to use with the text to speech function in Available events. Click Play to confirm the sound or text is played correctly. 3-12 Connecting and Printing Appearance Tab The Appearance tab is contains the following items. Enlarge window Doubles the size of the Status Monitor window. Always on top Positions the Status Monitor in front of other active windows. Transparency Displays the Status Monitor as a transparent window.



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Connecting and Printing 3-13 Configuration Tool The Configuration Tool allows you to check and/or change the settings for printers not included in the KX driver. The Configuration Tool can be used for printers connected to the PC via a USB cable. Note The contents of the Properties dialog box will vary depending on the installed optional devices, and whether the device is connected by a network interface or a local interface. Accessing the Configuration Tool Follow these steps to display the Configuration Tool on the desktop. Note To configure the settings of the Configuration Tool, run the Status Monitor on your computer at first. 1 2 Right-click the Status Monitor icon in the Windows taskbar. Select Configure the Printing System from the menu. The Configuration Tool window appears.. Note When the printer is connected with the network cables, COMMAND CENTER starts instead of the Configuration Tool.

Exiting the Configuration Tool Use either of the methods listed below to exit the Configuration Tool. · · Exit using the Close button: Click in the top-right corner of the Configuration Tool window. Exit using the OK or Cancel button: Clicking OK exits the Configuration Tool after applying the modified printer settings. Clicking Cancel exits the Configuration Tool without applying the modified printer settings. 3-14 Connecting and Printing Status Tab The Status tab displays current information about the device, such as the model name, system firmware, engine firmware, serial number, total memory, and number of printed pages.

Input Tab The Input tab displays information about the paper feeder attached to the machine, such as the current paper level and the maximum paper capacity. This tab also enables you to customize the paper size and type of the paper cassette or optional paper feeder. If you selected Custom as the paper size for Cassette 1 to Cassette 3, you can use this tab to set the width (X) and height (Y) of the custom paper. Media Tab The Media tab displays and lets you select the weight and density for each media type. It also enables or disables duplex printing for the each media type.

Duplex printing is available for FS-1300D only. Connecting and Printing 3-15 Printer Tab The Printer tab allows you to set print processing parameters that are not available in the KX driver. As well as the form feed timeout, you can change the memory size used for processing raster data such as bitmap and JPEG files. Connection Tab You can use the Connection tab to set the emulation. You can also use this tab to change the buffer memory size and buffer mode of the printer for communication processing to the host. Data Tab The Data tab fetches and lists the data stored in the CF card or RAM disk. Select a data type and click [View] to fetch and display a list of the target data from the printer. The information displayed includes the name, type and storage location. 3-16 Connecting and Printing Others Tab The Others tab enables you to configure the printer settings shown below. Item Auto sleep Description Configures the amount of time when the printer automatically enters Sleep Mode.

Click Advanced to turn Auto sleep On or Off. Enables or disables the EcoFuser. Select On to reduce the power consumption to a minimum by turning off the heater of the fixing unit at Sleep Mode. The default setting is On. Locks or unlocks the operation panel. Locking the operation panel disables key operations from the panel. Enables or disables RAM disk mode. Enabling the RAM disk allows you to use it as a temporary storage area for data such as font files or the contents of the receive buffer. You can also specify the RAM disk size by clicking Enable. EcoFuser Panel lock RAM disk Connecting and Printing 3-17 Uninstalling Software The CD-ROM lets you remove the printer software.

1 2 3 Click Remove Software. The Kyocera Uninstaller appears. Select the software package to remove. Click Uninstall. Note In Windows Vista, Remove Driver and Package screen appears. Select Remove driver and driver package, and click OK. The uninstaller starts. 4 5 When Uninstall complete screen appears, click Finish. Select whether you restart your computer or not, click Finish. 3-18 Connecting and Printing 4 Maintenance This chapter explains how to replace the toner container and clean the printer.

General Information Toner Container Replacement Cleaning the Printer Prolonged Non-Use and Moving the Printer 4-2 4-2 4-6 4-9 Maintenance 4-1 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 status: 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 Toner indicator identifies the toner status at two stages of toner usage. · · When the printer becomes low on toner, the Toner indicator flashes. Note the replacement is not always necessary at this stage. If you ignore the above status and continue printing, the Toner indicator lights up 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 (FS-1300D) or 4,000 pages (FS-1100). Starter Toner Container The toner container packed with the new printer is a starter toner container. The starter toner container lasts an average of 3,600 pages (FS-1300D) or 2,000 pages (FS-1100). 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. 4-2 Maintenance

Replacing the Toner Container This section explains how to replace the toner container. CAUTION Do not attempt to incinerate the Toner Container. 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 Mita Corporation is not liable against any damages or problems arising from the use of toner containers other than those designated as original Kyocera toner containers.



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