



RISO CV1200

User's Guide

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As an **ENERGY STAR**® Partner, RISO KAGAKU CORP. has determined that this product meets the **ENERGY STAR**® guidelines for energy efficiency.

Duplicator Model: RISO CV1200W

RFID System Model: 050-34901

Contains FCC ID: RPARFR6

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that unauthorized changes or modifications not approved could void the user's authority to operate the equipment.

NOTE: 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.

Contains IC: 4819A-RFR6

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.

CAN ICES-3(B)/NMB-3(B)

Perchlorate Material-special handling may apply, See www.dtsc.ca.gov/hazardouswaste/perchlorate

This product may contain certain substances which are restricted when disposed.

Therefore, be sure to consult your contracted service dealer.

This product contains RFID (Radio Frequency Identification) System.



RE directive Class1 device

MASCHINENLÄRM INFORMATION

Maschinenlärminformations-Verordnung 3. GSGV:

Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779.

Hinweis:

Das Gerät ist nicht für die Benutzung am Bildschirmarbeitsplatz gemäss Bildschirmarbeitsverordnung vorgesehen.

RISO KAGAKU CORPORATION LONDON OFFICE

610 Centennial Park, Centennial Avenue, Elstree, Herts, WD6 3TJ U.K.

Preface

Thank you for your purchase of this printing machine.

This machine is a digital duplicator that enables clear printing by using simple operations.



You can print multiple sheets quickly at a low cost.

This machine is equipped with many useful functions in a compact body.

■ Descriptive contents in this guide

- The reproduction of this guide in whole or in part is strictly prohibited without the permission of RISO KAGAKU CORPORATION.
- The contents of this guide are subject to change in the future without prior notice for improvement of the product.
- Please note that we do not assume any responsibility for the effect of outcomes resulting from the use of this guide and the operation of this machine.

■ Trademarks

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- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- Other corporate names and/or trademarks are either registered trademarks or trademarks of each company, respectively.

About the User's Guides

User's guides provided for this machine

This machine comes with the following user's guides.

Thoroughly read these user's guides before using this machine.

In addition, read them whenever necessary in case there is anything unclear during the use of this machine. We hope that you will continuously use these guides together with this machine.

■ RISO CV1200 User's Guide (this guide)

This user's guide explains the basic operation procedures of this machine and also explains how to use advanced printing functions and other useful functions.

It also explains precautions for use, how to handle and replace consumables, and troubleshooting procedures for cases in which a problem occurs.

■ RISO Printer Driver User's Guide

This user's guide is included as a PDF file on the attached CD-ROM.

It explains the operation procedures for printing on this machine from a computer and various settings.

About symbols



Warnings or precautions for ensuring safety.



Important matters that require special attention. Read carefully and follow the instructions.



Supplemental explanation that provides useful information.



Indicates reference pages.

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Safety Precautions





This section describes the information that you need to be aware of before using this machine. Read this section before operating this machine.

Warning indications

The following warning indications are used to ensure proper operation of this machine and also to prevent hazards to the human body and damage to property.

 Warning	Indicates that incorrect handling by ignoring this symbol may cause death or serious human injury.
 Caution	Indicates that incorrect handling by ignoring this symbol may cause human injury or damage to properties.

Example of pictorial indication

	The  symbol indicates prohibited actions. The specific actions that are prohibited are indicated within the pictograph or in an adjacent area. The pictograph shown on the left indicates prohibition of disassembly.
	The  symbol indicates mandatory actions or instructions. The specific instructions are indicated within the pictograph. The pictograph shown on the left asks you to unplug the power cord.



Installation location

Caution

- Do not place this machine on an unstable location, such as a wobbly base or tilted surface. If this machine falls down or falls over, the situation may result in injury.
- Keep this machine away from humid and dusty environments. Failure to do so may result in fire or electric shock.

Power connection

Warning


- Use this machine in accordance with the rated voltage value. Also, use this machine by connecting it to an electrical outlet with a capacity larger than the rated current value. For the rated voltage and rated current values, check the item "Power Source" in the table of specifications at the end of this guide.
- Do not use a branching outlet or multiple outlet extension plug. It may result in fire or electric shock. 
- Do not scratch, damage, or process the power cord. Do not damage the power cord by placing heavy objects on it or pulling or forcibly bending it. It may result in fire or electric shock. 
- Do not plug or unplug the power cord with wet hands. It may result in electric shock.

Caution

- When unplugging, do not pull the power cord (be sure to hold the plug). It could damage the cord, and this may result in fire or electric shock.
- If this machine is not used for a long time due to consecutive holidays, etc., be sure to unplug the power cord to ensure safety.
- Unplug the power cord at least once a year and clean the prongs of the plug and their surroundings. Dust collected on these areas may result in fire.

Ground connection




Warning

- Be sure to connect the ground wire before plugging in the power cord. Be sure to unplug the power cord before disconnecting the ground wire. If you fail to connect the ground wire and an electric leakage occurs, it may result in fire or electric shock. If the ground wire cannot be connected, consult your dealer or authorized service representative. 

Machine handling



Warning

- Do not place a container that is filled with water or metallic objects on this machine. If the water spills or the water or metallic objects fall into this machine, it may result in fire or electric shock.
- Do not use combustible spray and flammable solvent near this machine. If the sprayed gas or flammable solvent contacts the electrical parts inside the mechanical system, it may result in fire or electric shock.
- Do not insert or drop foreign matter, such as metallic parts or highly combustible matter, into this machine through any opening. It may result in fire or electric shock.
- Do not remove the covers of this machine. There are some sections to which high voltage is applied inside this machine. Removing the covers may result in electric shock.
- Do not disassemble or modify this machine. It may result in fire or electric shock. 
- If this machine emits excessive heat, smoke or foul odor, immediately turn off the power switch, unplug the power cord, and consult your dealer or authorized service representative. Failure to do so may result in fire or electric shock. For more information, consult your dealer or authorized service representative. 
- If foreign matter enters this machine, immediately turn off the power switch of the main unit, unplug the power cord and consult your dealer or authorized service representative. If you continue to use this machine without taking appropriate measures, it may result in fire or electric shock. 



Caution

- Do not perform any procedures (adjustment, repair, etc.) that are not described in this guide. When you want to adjust or repair, consult your dealer or authorized service representative.
- Allow plenty of ventilation during printing.
- Since the thermal print head may be heated, do not touch it directly with your fingers.
- Do not touch the sections currently in operation in this machine. It may result in injury.
- Do not stick body parts such as your fingers into the openings around the paper feed tray or the paper receiving tray. It may result in injury.
- When you put your hands inside the main unit, take care not to touch any protrusions or edges of the metal plate. It may result in injury.
- When you put your hands inside the main unit, take care not to touch the paper separation hook or master removal hooks. The sharp tips of these hooks can hurt your hands.
- Be sure to turn off the power to this machine when cleaning the pressure roller.
- Ink may be left on the areas near the print drum (cylinder) and the inside of the main unit after the print drum (cylinder) unit has been removed. Take care not to smudge your hands or clothes with the ink. Wash immediately with soap if you get ink on your hands, etc.
- Do not stand the print drum (cylinder) vertically. Doing so may stain the floor, etc.

Ink

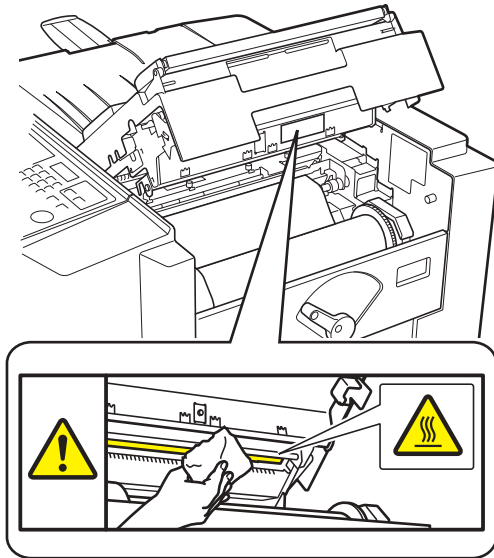


Caution

- If ink gets in your eyes, immediately rinse it off completely with a large amount of water.
- If it gets on your skin, wash it off thoroughly using soap.
- If it is swallowed by accident, do not induce vomiting. Instead, drink a large amount of water or milk, and see if the condition improves.
- If you feel any abnormalities, immediately seek medical treatment.
- Only use the ink for printing purposes.
- Keep the ink out of the reach of children.

Locations of caution labels

This machine has some caution labels to ensure safe operation. Follow the indications of those labels and use this machine safely.



Before Starting Use

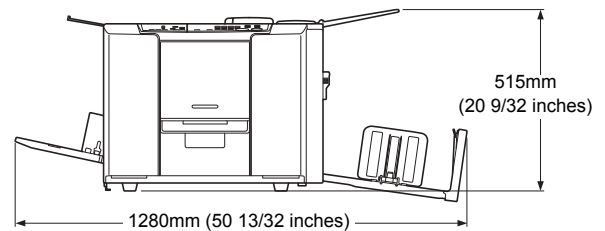
This section describes the precautions to be observed and the information that you need to be aware of before using this machine.

Precautions for installation

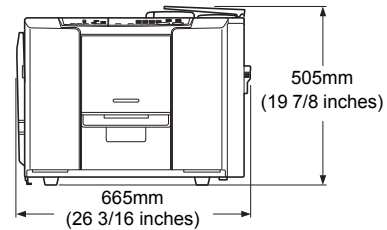
■ Required space

The amounts of free space noted below are necessary in order to extend the paper feed tray and paper receiving tray, to pull out the print drum (cylinder), etc.

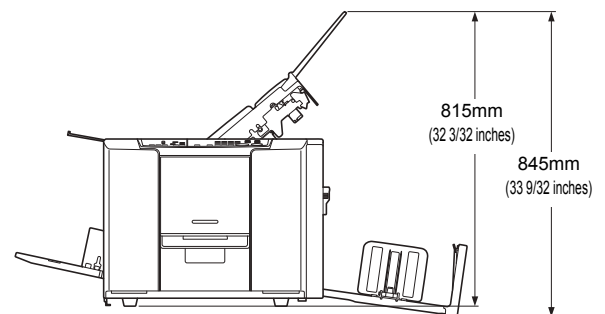
- When in use



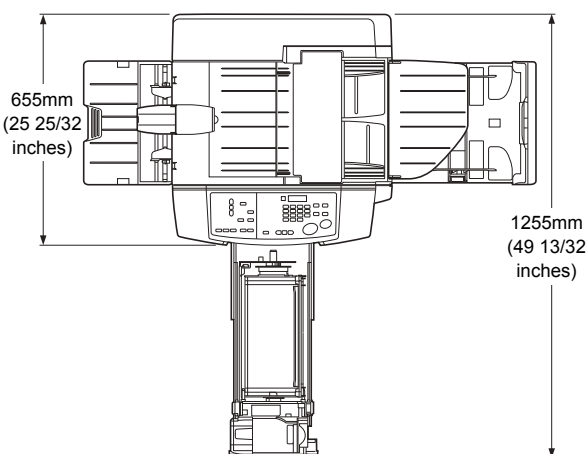
- When in storage



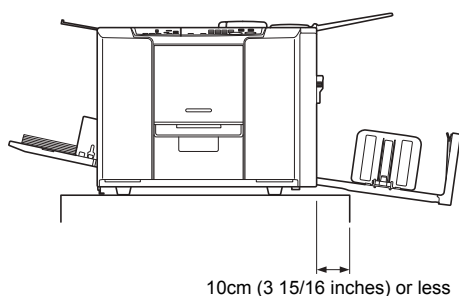
- When the master making unit cover is open



- When the print drum (cylinder) is out



The distance from the right side of the machine to the right edge of the stand (desk, etc.) should be 10 cm (3 15/16 inches) or less. If the distance is greater than 10 cm (3 15/16 inches), the stand will interfere with the paper receiving tray and it will not be possible to set the tray up correctly.



■ Installation location

- The installation location of this machine will be determined in consultation with you during delivery.
- The installation location of the machine should be fixed.
When you want to move this machine, consult your dealer or authorized service representative.
- Do not install this machine in the locations listed below. Failure to observe this precaution may result in malfunction, failure, or accident.
 - Locations with exposure to direct sunlight and locations close to windows (cover the windows with curtains if necessary)
 - Locations that are subject to sudden changes in temperature
 - Extremely hot and humid locations or cold and dry locations
 - Locations exposed to fire or heat, direct cold air (e.g., air conditioner), direct hot air (e.g., heater), or where heat is transmitted
 - Locations with poor permeability and ventilation
- Choose a location where this machine is level when it is installed. (Levelness for installation: 10 mm [13/32 inches] or less both lengthwise and widthwise)



- The appropriate environment conditions are as follows.
Temperature range: 15°C to 30°C (59°F to 86°F)
Humidity range: 40% to 70% (no condensation)



Precautions for use

■ Power connection

- Be sure to plug in the power cord securely to prevent poor contact in the power plug section.
- Locate this machine near the electric outlet.



■ Operations

- Do not turn off the power or unplug the power cord during operation.
- Do not open covers or move this machine during operation.
- Open and close covers gently.
- Do not put any heavy objects on this machine.
- Avoid excessive impact on this machine.
- This machine contains precision parts and drive mechanisms. Perform only the procedures described in this guide.

Consumables

- For the ink and master rolls, it is recommended to use the products specified by RISO.
- Genuine RISO inks and master rolls are engineered for maximum performance and maximum life, and RISO equipment is designed to give excellent performance when used with genuine RISO consumables.
However, all consumables can and do deteriorate over time. We recommend that you use ink and master rolls as soon as possible after purchase, and within 18 months of the date of manufacturing. You can find the date of manufacturing on the ink cartridge or the inside of master core. RISO genuine consumables transmit information regarding the age of the consumables that allows the machine to make adjustment based on the age of the consumables, e.g., time remaining until the Use By date.
- Store the paper, master rolls, and ink cartridges properly according to the instructions indicated on each container.
- Do not store those parts in the locations listed below.
 - Locations with exposure to direct sunlight and locations close to windows (cover the windows with curtains if necessary)
 - Locations that are subject to sudden changes in temperature
 - Extremely hot and humid locations or cold and dry locations



Printing of original data

You can connect this printer with the computer using a USB cable to print the original data.

A commercially available USB cable is required for connection. Use a cable of 2 m (6.6 feet) or shorter that conforms to the USB 2.0 standard.



- ▶ **When connecting using a USB cable, be sure that the power for this machine and the computer is turned on.**
- ▶ **If you use a USB hub, the machine may not work properly.**
- ▶ **The maximum allowable voltage for USB connector input and output is 5V.**

Software

The software included in the CD-ROM provided for this machine is as follows:

■ RISO Printer Driver

This is a dedicated printer driver that enables printing an original from a computer.

It is necessary to install the printer driver for the first time before the initial printing run.

For more information, see the user's guide (PDF file) included in the CD-ROM.

Originals

■ Size and weight

The following sizes and weights of originals are usable:

Size	90 mm × 140 mm to 310 mm × 435 mm (3 17/32 inches × 5 1/2 inches to 12 7/32 inches × 17 1/8 inches)
Weight	50 g/m ² to 107 g/m ² (13-lb bond to 29-lb bond)

- Do not mix originals of different sizes for the document feeder.



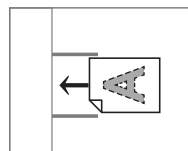
- ▶ You cannot use the following originals for this machine.

- Multi-layered originals
- Original with staples or clips
- Patched original
- Excessively wrinkled, curled, or creased original
- Original with sticky areas or holes
- Torn original or deckle-edged original
- Chemically treated original (such as thermal or carbon paper)
- Transparent original (such as OHP films or tracing paper)
- Original with correction fluid or glue
- Extremely thin original (less than 50 g/m² [13-lb bond])
- Extremely thick original (greater than 107 g/m² [29-lb bond])
- Original with slippery surface (such as art or coated paper)

- If ink or correction fluid is used on an original, thoroughly dry it before placement. Failure to do so may contaminate the document feeder, and this impairs proper printing.

■ Direction of original

The leading edge of an original in the feeding direction is referred to as the "top".



Printing papers

■ Size and weight

The following sizes and weights of paper are usable:

Size	100 mm × 148 mm to 297 mm × 420 mm (3 15/16 inches × 5 13/16 inches to 11 11/16 inches × 16 17/32 inches)
Weight	35 g/m ² to 128 g/m ² (9-lb bond to 34-lb bond)

- If you use papers outside the specifications of this machine, RISO does not assure the paper feeding and printing performance with these papers.

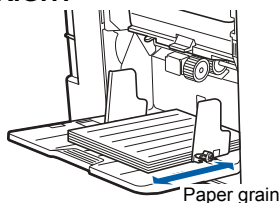


► **Please note that even with paper of a size and weight that conforms to the specifications of this machine, this machine may not feed the paper depending on the paper type, environmental conditions, and storage conditions. For more information, consult your dealer or authorized service representative.**

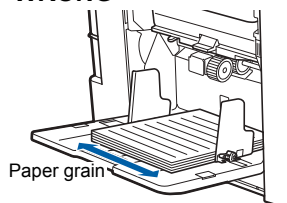
■ To prevent paper jams and paper feeding failures

- Place the paper so that its grain (flow of the grain) is aligned with the paper feeding direction.
If the paper grain is set perpendicularly to the paper feeding direction, the resilience of the paper will decrease, and it may result in a paper jam.

RIGHT



WRONG



You can check the paper grain by tearing the paper. The direction in which the paper tears straight is the paper grain.



The paper tears straight if you tear it along the paper grain.



The paper does not tear straight if you tear it perpendicularly to the paper grain.

- When using poorly cut paper or coarse surfaced paper (drawing paper, etc.), separate the paper before use.
- Depending on the type of paper to be used, paper dust may be generated during use of this machine. Please clean and ventilate the area adequately.

- When using thick paper (drawing paper, etc.) or paper with a slippery surface, adjust the following parts:
 - The paper feed pressure adjustment lever (📖 22)
 - The stripper pressure adjustment knob (📖 22)
 - The paper jumping wings (📖 23)
- Use flat paper. If it is unavoidable to use curled paper, place the printing paper so that the inner curled part faces up.



- If the margin at the top of the printed paper (leading edge in the paper output direction) is too small or if a highly dense image is located at the top of the printed paper, the paper may adhere to the print drum (cylinder). In this case, lower the print position to allow a larger margin at the top or rotate the top-and-bottom direction of the original, and then make a master again.

■ Paper storage

Store paper in a dry area. Paper containing moisture can result in paper jams or poor print quality.

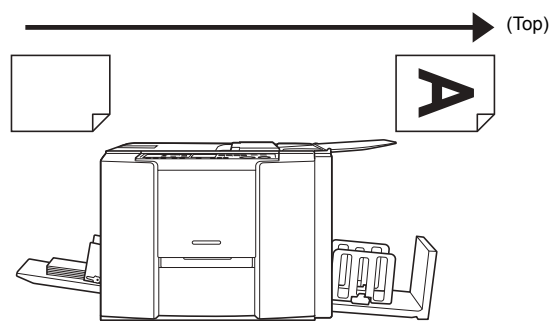
■ Inappropriate paper for printing

Do not use the types of paper listed below, as it can result in a paper jam.

- Extremely thin paper (less than 35 g/m² [9-lb bond])
- Extremely thick paper (greater than 128 g/m² [34-lb bond])
- Chemically treated paper (such as thermal or carbon paper)
- Excessively wrinkled, curled, creased, or torn paper
- Paper coated on one side or both sides
- Deckle-edged paper
- Art paper
- Paper with sticky areas or holes

■ Direction of paper

The leading edge in the paper feeding direction is referred to as the "Top" in this guide.



Printing area

Maximum Printing Area

The maximum printing area of this machine is as follows:

In units of mm:

251 mm × 357 mm

(9 7/8 inches × 14 1/16 inches)

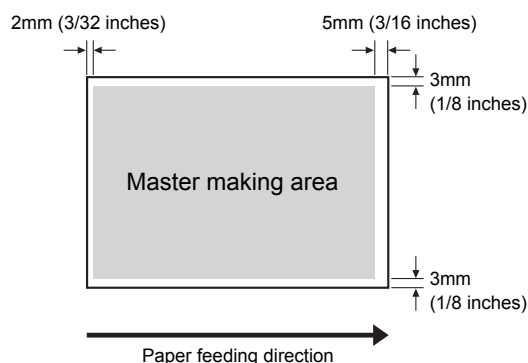
In units of inches:

210 mm × 349 mm

(8 9/32 inches × 13 3/4 inches)

Master making area

The master making area is determined according to the paper size placed on the paper feed tray. The master making area is an area that equals the paper size excluding the margin shown in the illustration below.



When creating originals, take above margins into consideration.

The same master making area is applied when printing by sending original data from a computer.



- ▶ **The master making area does not exceed the maximum printing area even when you set large paper.**

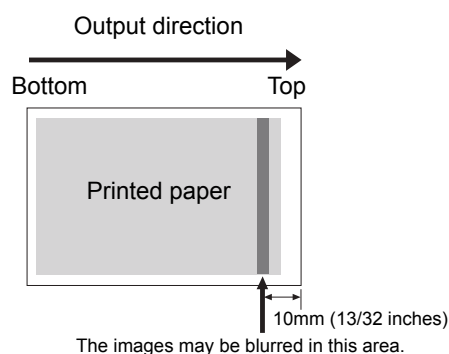


- ▶ When printing an original with little margin around the original, it is useful to reduce the original by setting the magnification rate (32).

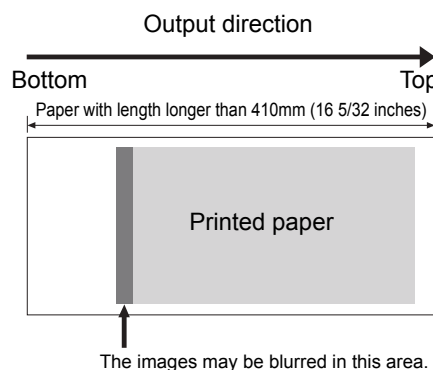
- ▶ If print paper is sticking to the print drum (cylinder), smudges are appearing 10 mm (13/32 inches) from the top, etc., include a margin 10 mm (13/32 inches) or larger at the top.

Use one of the two methods below to do so.

- Move the print position towards the bottom with print position adjustment.
- Extend the margin on the original to 10 mm (13/32 inches) or more from the top and remake the master.



- ▶ If an original with almost the same size as the maximum printing area is printed on paper with a length longer than 410 mm (16 5/32 inches), the latter printing area may be smudged.



Materials not to be printed

Do not use this machine in any manner which violates the laws or infringes on established copyrights, even when making copies for personal use. Consult your local authorities for further details. In general, use discretion and common sense.



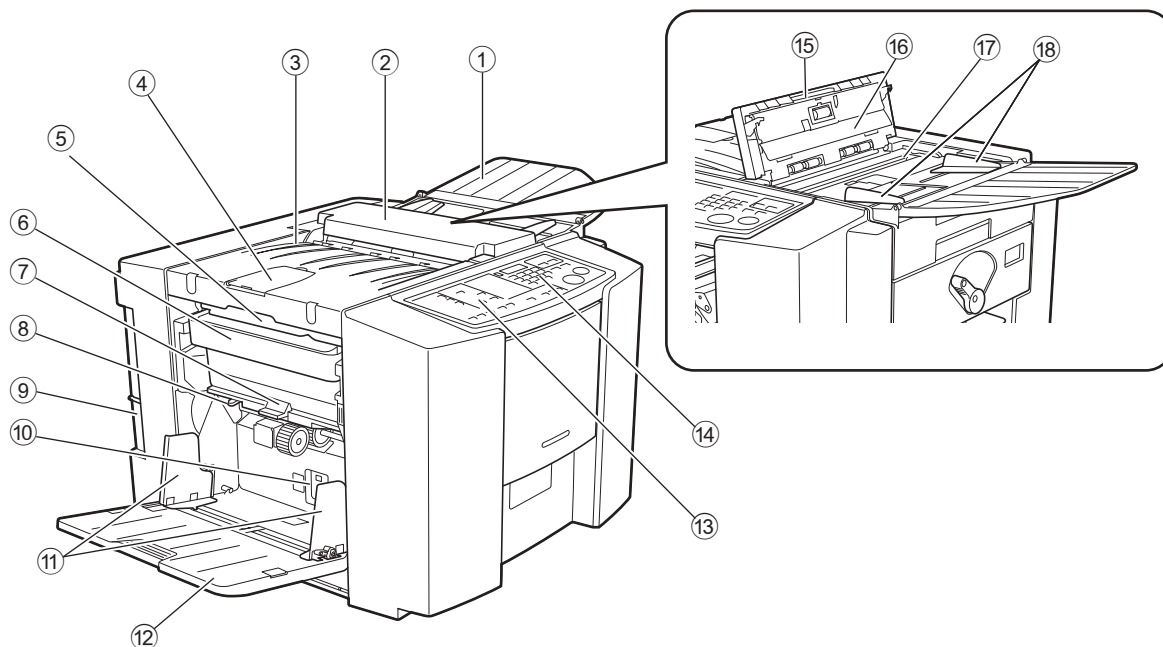
Chapter 1

1

About This Machine

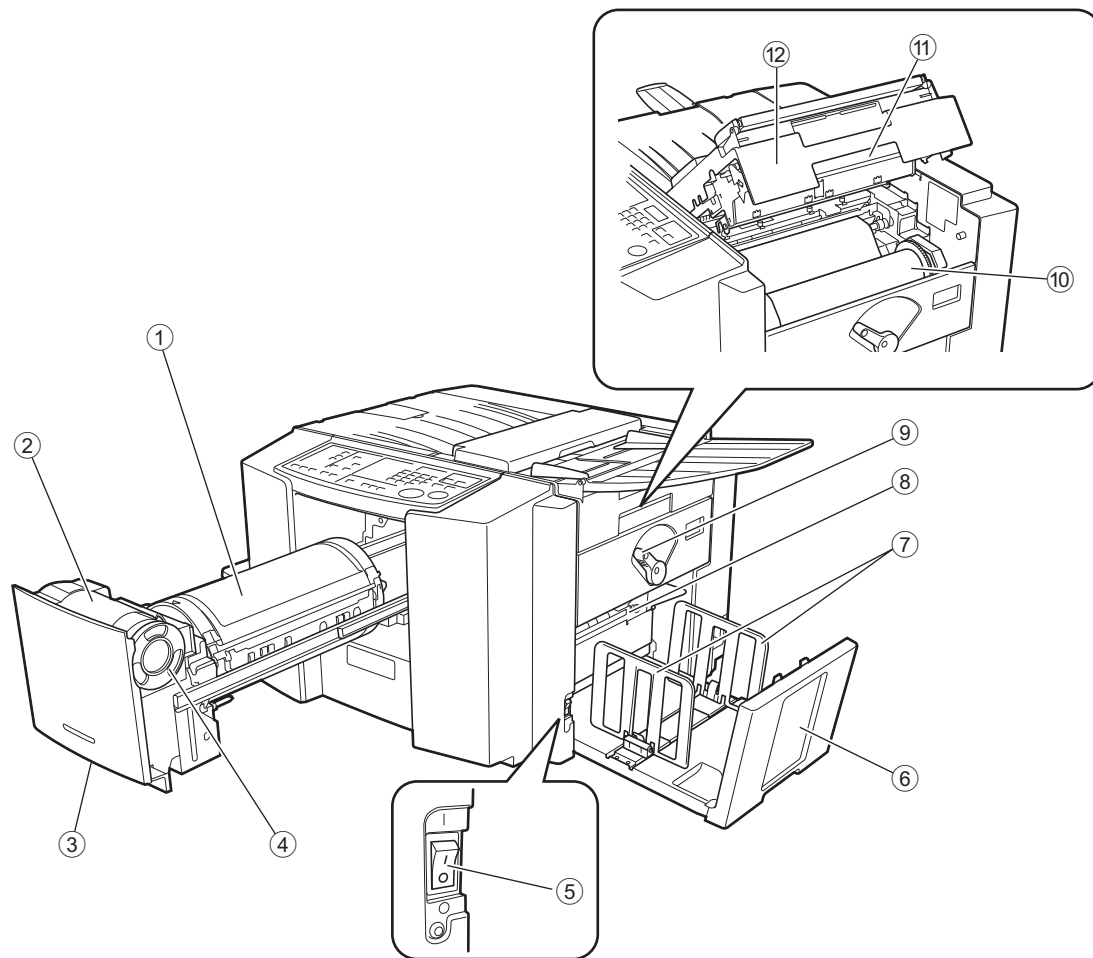
Name and Function of Each Part

Paper feeding side



- ① **Original tray** (📖 25)
Place an original face down.
- ② **Document feeder**
Feeds an original from the original tray and scan it.
- ③ **Master disposal unit (receiving originals)**
The scanned original is ejected.
- ④ **Original stopper**
Stops the scanned original.
- ⑤ **Master disposal unit release lever**
Grasp the lever to open the master disposal unit when the master jams or others.
- ⑥ **Master disposal box** (📖 56)
Collects masters that are disposed of.
- ⑦ **Master disposal box release lever** (📖 56)
Push down the lever when pulling out the master disposal box when the box is filled with discarded masters.
- ⑧ **Paper feed pressure adjustment lever** (📖 22)
Adjusts the paper-feed pressure according to the paper type.
- ⑨ **USB connector**
Plug in a USB cable to connect this machine with a computer.
- ⑩ **Stripper pressure adjustment knob** (📖 22)
Adjusts the paper stripping pressure according to paper in use.
- ⑪ **Feed-tray paper guides** (📖 22)
Slide these guides to fit the paper width to prevent misalignment of the paper.
- ⑫ **Paper feed tray** (📖 22)
Place paper on this tray.
- ⑬ **Sub control panel** (📖 19)
- ⑭ **Main control panel** (📖 18)
- ⑮ **Original release lever**
Use the lever to open the document feeder if paper jams or originals need to be repositioned.
- ⑯ **White sheet**
- ⑰ **Scanner glass**
- ⑱ **Original guides**
Hold and guide originals on the original tray. Slide to fit to the sides of originals.

Paper receiving side

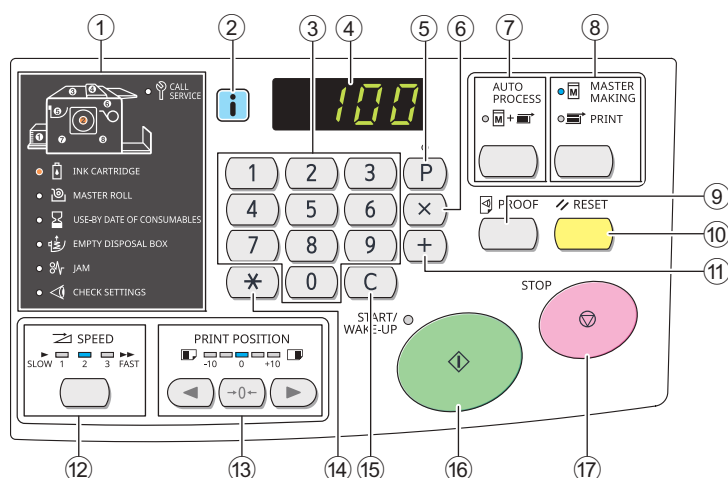


1

- | | |
|--|---|
| <p>① Print drum (cylinder) (📖 72)
This print drum (cylinder) is dedicated for CV1200.</p> <p>② Ink cartridge holder</p> <p>③ Print drum (cylinder) handle (📖 54)
Pull out the print drum (cylinder) by holding this handle.</p> <p>④ Ink cartridge (📖 54)</p> <p>⑤ Power switch (📖 25)
Turn on/off the power supply.</p> <p>⑥ Paper receiving tray (📖 23)
The printed paper is output to this tray.</p> <p>⑦ Receiving-tray paper guides (📖 23)
Slide these guides to fit the paper size.</p> | <p>⑧ Paper jumping wing (📖 24)</p> <p>⑨ Master roll lock lever (📖 52)
Locks the master roll in position.</p> <p>⑩ Master roll (📖 52)</p> <p>⑪ Master making unit handle (📖 52)
Unlock the handle to open the master making unit.</p> <p>⑫ Master making unit cover (📖 52)
Open the cover to mount the master roll into position.</p> |
|--|---|

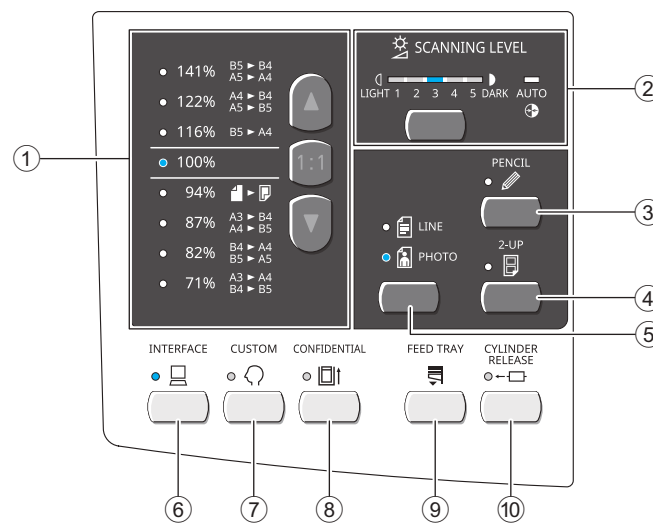
Control panel

■ Main control panel



- ① **Check & error display** (📖 64)
Shows the status of this machine and the location where an error is occurring.
- ② **[i] indicator** (📖 64)
The color of the [i] indicator shows the status of this machine.
- ③ **Numeric keys**
Press these keys to enter the number of prints and the values for various settings.
- ④ **Numeric display**
Shows the number of prints and the entered values for various settings.
- ⑤ **[P] key** (📖 40)
Press this key to use the [Program]. When [Program] is turned on, the key lamp is lit.
- ⑥ **[X] key**
Press this key to operate [Program] (📖 40) or [Custom Setting Mode] (📖 46).
- ⑦ **[AUTO PROCESS] key** (📖 20)
Press this key to turn on / off [AUTO PROCESS]. When [AUTO PROCESS] is turned on, the lamp above the key is lit.
- ⑧ **[MASTER MAKING/PRINT] key** (📖 25)
Press this key to switch the master making process and printing process.
- ⑨ **[PROOF] key** (📖 25)
Press this key to output a proof copy.
- ⑩ **[RESET] key**
Press this key to reset the current setting to its default value or clear error displays after troubleshooting.
- ⑪ **[+] key**
Press this key to operate [Program] (📖 40) or [Custom Setting Mode] (📖 46).
- ⑫ **[SPEED] key** (📖 36)
Press this key to adjust the print speed. The indicator above the key shows the current speed.
- ⑬ **[PRINT POSITION] keys** (📖 37)
Press these keys to adjust the print position in the horizontal direction after master making.
- ⑭ **[*] key**
Press this key to register the [Program] (📖 40) settings.
- ⑮ **[C] key**
Press this key to clear the entered characters and numbers.
- ⑯ **[START/WAKE-UP] key**
In this guide, this key is called the [START] key.
 - Press this key to start the master making process and the printing process as well as to start various operations.
 - The key lamp is lit when the operation is available and not lit when the operation is not available.
 - When this machine is in sleep (power saving) status, only this key lamp is lit and all other lamps are off. Press this key to activate this machine.
- ⑰ **[STOP] key**
Press this key to stop the operation in progress. If this key is pressed while master making is in progress, the operation stops after the master making process is complete.

■ Sub control panel



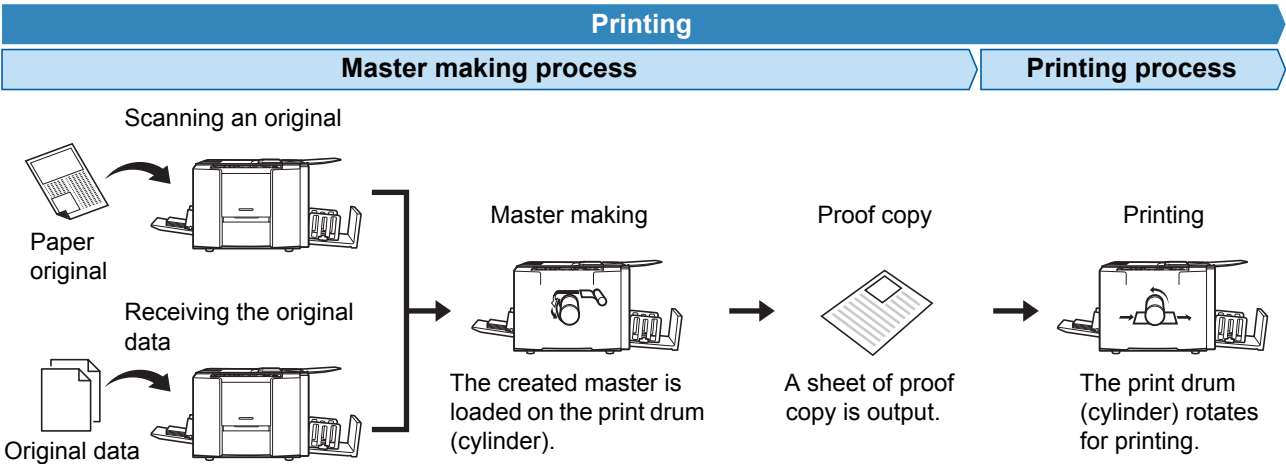
- ① **Reproduction size selection area** (📖 32)
You can set the magnification rate.
- ② **Scanning level adjustment area** (📖 31)
You can adjust the scanning level of the original.
- ③ **[PENCIL] key** (📖 31)
You can apply image processing that is suitable for originals that are pale in color such as an original written in pencil or stamped in red seal-ink. When this key is turned on, the lamp above the key is lit.
- ④ **[2-UP] key** (📖 32)
Press this key to lay out two copies of originals side by side on a single sheet of paper. When this key is turned on, the lamp above the key is lit.
- ⑤ **[LINE/PHOTO] key** (📖 30)
You can select the image processing that is suitable for the type of original. The lamp above the key is lit depending on the image processing that you selected.
- ⑥ **[INTERFACE] key** (📖 26)
Press this key before receiving the original data from the computer. When this key is turned on, the lamp above the key is lit.
- ⑦ **[CUSTOM] key** (📖 46)
Press this key to change the default setting, etc. During setting, the lamp above the key is lit.
- ⑧ **[CONFIDENTIAL] key** (📖 43)
Press this key to discard the used master. When this key is turned on, the lamp above the key is lit.
- ⑨ **[FEED TRAY] key** (📖 23)
Press the key to lower the paper feed tray if you replace paper or if you remove the master disposal box when it is filled.
- ⑩ **[CYLINDER RELEASE] key** (📖 54)
Press the key and when the lamp lights, you can pull out the print drum (cylinder) manually. When not lit up, press the key to light up the lamp, so you can pull out the print drum (cylinder).

Printing Flow

“Master making process” and “Printing process”

This machine is a digital duplicator that uses the screen printing method. The screen printing method first forms minute holes on a master (plate), which is the base of the printing process. Then, ink is applied through these holes to transfer images onto paper.

In the screen printing method, “master making process” refers to the steps to create a master, and “printing process” refers to the steps in which the ink goes through the created master and the image is transferred onto paper. In this guide, “master making process” and “printing process” are together called “printing”.



What is [Auto Process]?

[Auto Process] refers to continuous operation of the master making process and the printing process. You can turn on / off the [Auto Process] setting by pressing the [AUTO PROCESS] key (18).

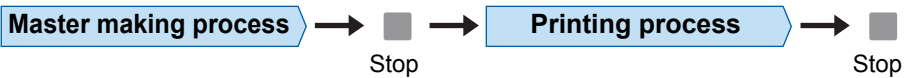
■ When [Auto Process] is on

After the master making process, the printing process starts. Use this setting when you do not need to check the proof copy or change the printing conditions and the master making conditions.



■ When [Auto Process] is off

Operation stops after each process: master-making and printing. Use this setting when you need to change the printing conditions after checking the proof copies or when you need to replace the paper.





Chapter 2

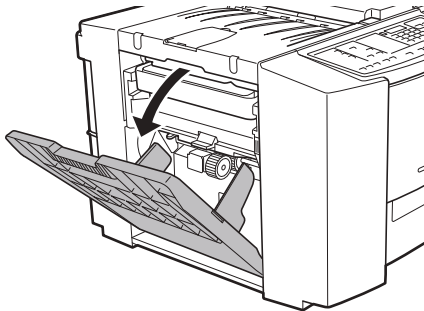
2

Basic Operations

Preparation before Printing

Setting up the paper feed tray and the paper

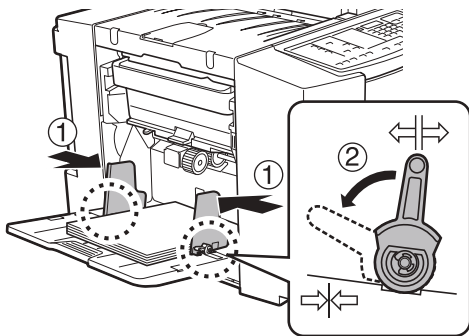
1 Open the paper feed tray.
While holding the paper feed tray with your hand, open it until it stops.



2 Place the paper on the paper feed tray.
Place the paper with the printing side facing up. Use the same orientation as that of the original. (p. 25 “Printing of Paper Originals”)

! Do not use inappropriate paper or mix paper of different sizes. It may cause a paper jam or damage your printer. (p. 12 “Printing papers”)

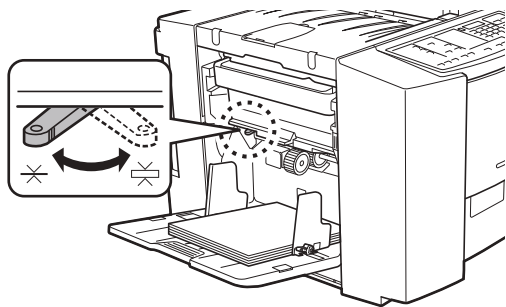
3 Adjust the feed-tray paper guides.
Raise the lock levers on both sides of the feed-tray paper guides so that you can slide the feed-tray paper guides by hand. Tightly fit the feed-tray paper guides to the paper, and then push down the lock levers on both sides to lock the guides.



4 Adjust the pressure settings.
Position the paper feed pressure adjustment lever and the stripper pressure adjustment knob according to the paper type.

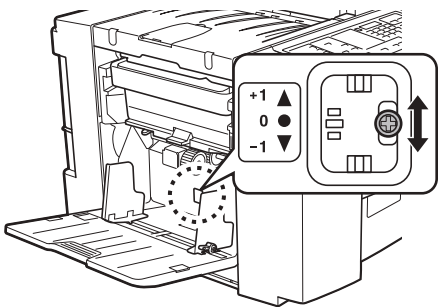
Paper type	Paper feed pressure	Paper stripping pressure
Coarse or thin paper	✕	+1▲
Standard paper	✕	0●
Thick paper	≡	-1▼

Paper feed pressure adjustment lever



✕ : For standard paper
≡ : For thick paper

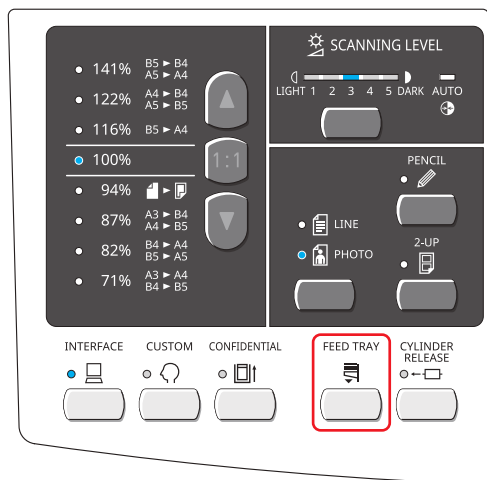
Stripper pressure adjustment knob



+1▲ : High pressure
0● : Standard pressure
-1▼ : Low pressure

■ Adding and replacing the paper

When adding or replacing the paper during the printing process, press the [FEED TRAY] key (19) on the control panel. The paper feed tray lowers so that you can remove and place the paper easily.



- ▶ After replacing the paper with that of a different type, reposition the paper feed pressure adjustment lever.
- ▶ After replacing the paper with that of a different size, also reposition the paper receiving tray and the receiving-tray paper guides.



- ▶ When the paper runs out or all of the paper is removed, the paper feed tray lowers to the bottom automatically.

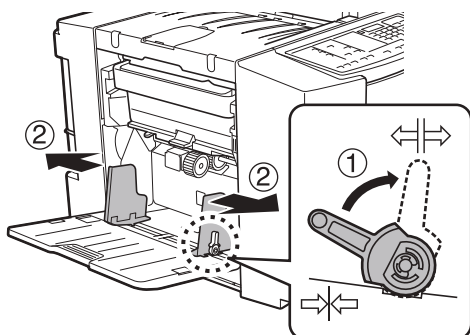
■ How to close the paper feed tray

1 Remove all of the paper.

After removing the paper, check that the paper feed tray is lowered to the bottom.

2 Slide the feed-tray paper guides to the ends.

Raise the lock levers for the feed-tray paper guides and slide the feed-tray paper guides by hand.

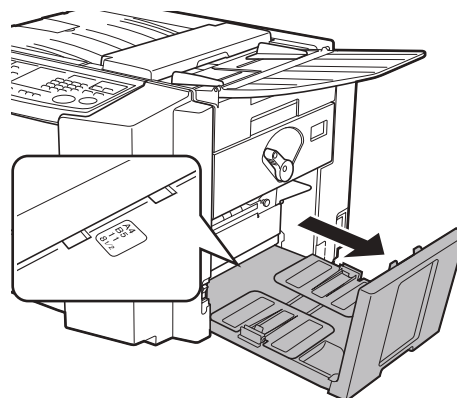


3 Close the paper feed tray.

Setting up the paper receiving tray

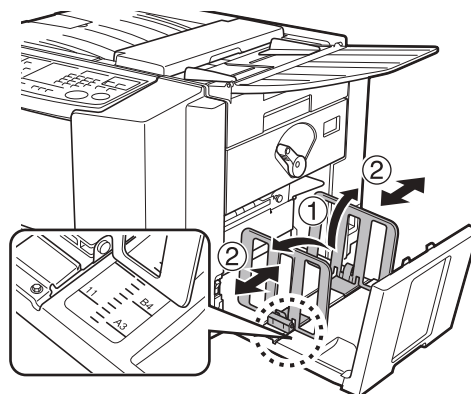
1 Pull out the paper receiving tray according to the print paper length.

Position the paper receiving tray to the scale of the paper size.



2 Position the receiving-tray paper guides.

Raise the receiving-tray paper guides, holding the lower parts, and then slide them according to the scale on the paper receiving tray.



- ▶ For thick paper, position the receiving-tray paper guides a little wider than the actual paper width.
- ▶ If you have moved the feed-tray paper guides, reposition the receiving-tray paper guides accordingly. If the guides are not correctly positioned, a problem such as a paper jam can occur.

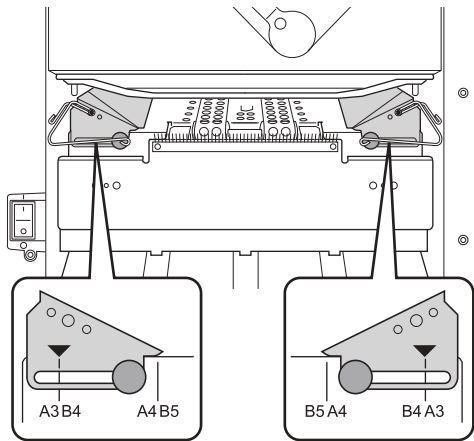
3 Adjust the paper jumping wings.

Adjust the paper jumping wings according to the paper size.

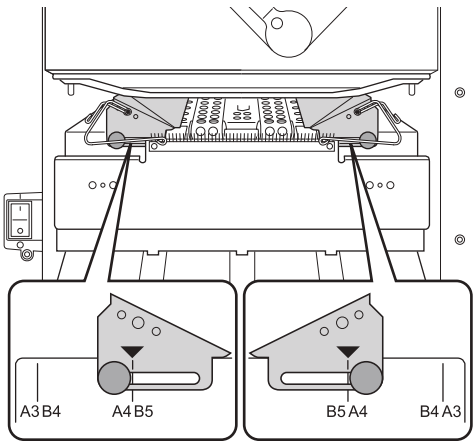
Loosen the setscrew for each paper jumping wing, and set the [Y] mark to an appropriate position. Then, tighten each setscrew to fix each paper jumping wing.

Paper size	Paper jumping wing position
B4 and larger	B4 A3
Smaller than B4	B5 A4

■ B4 and larger paper

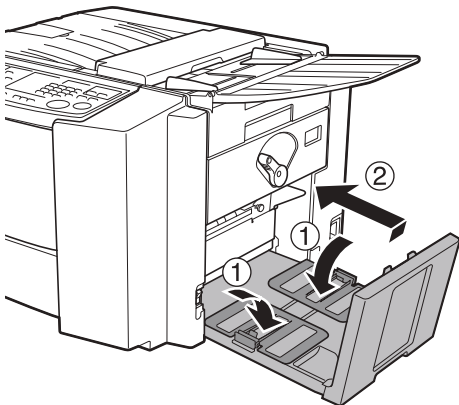


■ Paper smaller than B4



■ How to close the paper receiving tray

Fold the receiving-tray paper guides inward, and slightly lift and push the paper receiving tray back to close it.



! If the receiving-tray paper guides are outside of the B4/A3 paper positions, slide them to the B4/A3 paper positions and fold them inward.

Printing of Paper Originals

This section describes the procedure to scan and print paper originals.

1 Check that the power switch of this machine is on.

Press the [I] side of the power switch.

2 Check the paper.

([book 22](#) "Setting up the paper feed tray and the paper")

3 Check the paper receiving tray.

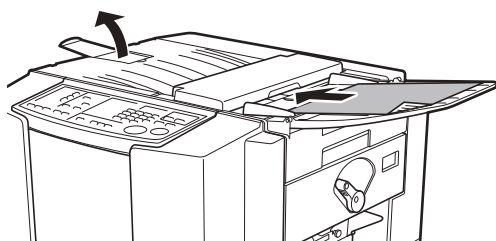
([book 23](#) "Setting up the paper receiving tray")

4 Check the display.

Check that no errors are indicated.
([book 64](#) "Check & Error Display")

5 Place an original face down.

Adjust the original guide to the width of the originals, and place an original face down.
To place an A3/Ledger original, open the original stopper.



! ▶ You can place only a single original on the document feeder.

6 Check that the [MASTER MAKING] lamp is lit.

If the [PRINT] lamp is lit, press the [MASTER MAKING/PRINT] key to switch the process.

7 Check the [Auto Process] setting.

([book 20](#) "What is [Auto Process]?")

8 Set the master making conditions.

([book 30](#) "Functions for Master Making")
([book 40](#) "Useful Functions")

9 Enter the number of copies to be printed using the numeric keys.

10 Press the [START] key.

Master making starts and a proof copy is output.

- When the [Auto Process] setting is on, go to step 13.
- When the [Auto Process] setting is off, go to step 11.

11 Set the printing conditions.

Check the printing position and density on the proof copy.

([book 36](#) "Functions for Printing")



- ▶ Press the [PROOF] key to check the output using another proof copy.
- ▶ If the machine has not been used for an extended period of time, the ink on the print drum (cylinder) dries and colors in the printed output may be faint or faded. If you find the case mentioned above, output several proof copies to ensure the usability and stability of the ink. You can output proof copies consecutively by continuously pressing the [PROOF] key.

12 Press the [START] key.

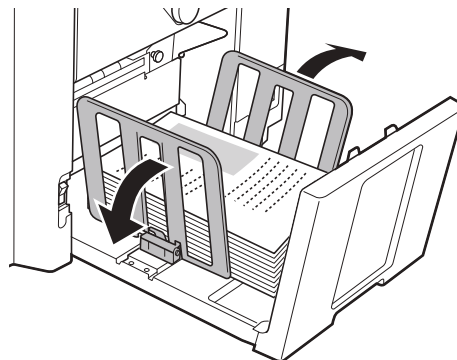
The printing process starts.



- ▶ To stop the printing process, press the [STOP] key.

13 Remove the printed copies.

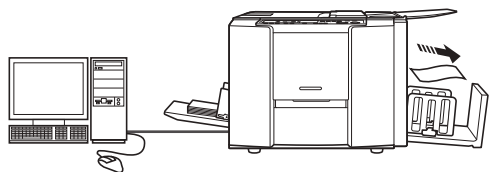
Fold the receiving-tray paper guides outward to easily remove the printed paper.



- ▶ To print more copies, enter the number of copies and press the [START] key.
- ▶ To start master making for the next original, repeat the procedure from step 4.

Printing from Computer

You can print the original data that was created using a computer on this machine.



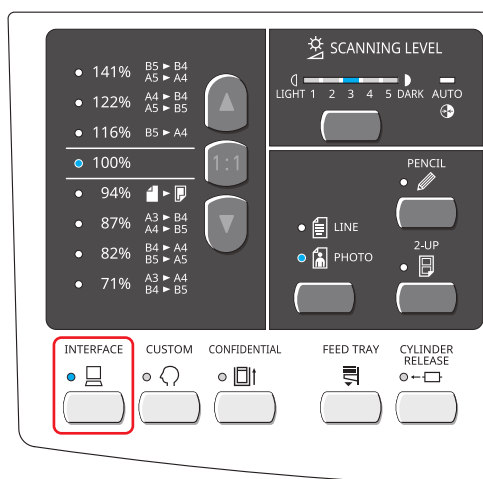
! **Before printing, it is necessary to install the printer driver dedicated for this machine in the computer.**

1 Turn on the power to this machine.
Press the [I] side of the power switch.

2 Check the paper.
([B22](#) “Setting up the paper feed tray and the paper”)

3 Check the paper receiving tray.
([B23](#) “Setting up the paper receiving tray”)

4 Turn on [INTERFACE].
If the [INTERFACE] lamp is off, press the [INTERFACE] key to light up.

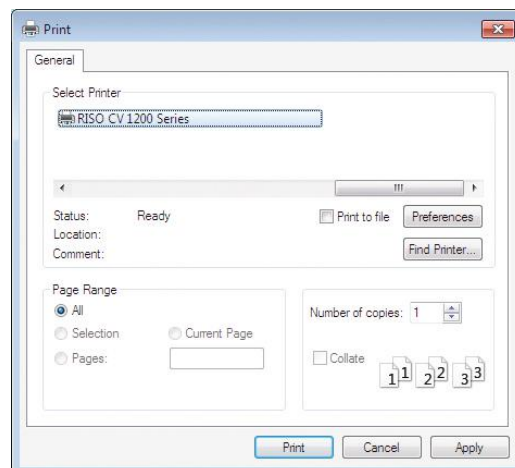


! **Note that if you press the [INTERFACE] key while the [INTERFACE] lamp is blinking, the original data that is being received or was already received is erased.**

5 Set the printing conditions in the [Print] dialog box on the computer.

Select the name of your printer under [Select Printer], and then enter the number of copies in the [Number of copies] field.

Example of the [Print] dialog box

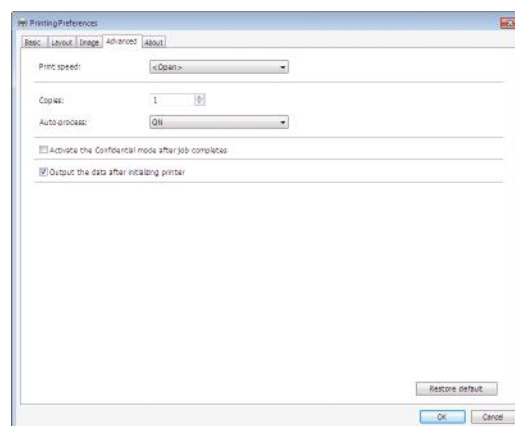


! **Clear the [Collate] check box. If this check box is selected, master making is repeated each time a single copy is printed.**

6 Perform the required settings in the [Printer Setup] ¹ screen.

Click [Preferences] ¹ in the [Print] dialog box, and then perform the following settings.

¹ The screen name and button name may vary depending on the application software that you use.



■ [Advanced] tab screen

[Auto Process]: Before master making and the printing process, you can temporarily stop the operation to check the proof copy, perform various settings, replace the paper, or do other necessary work.

■ Other printing settings

For more information, see the “RISO Printer Driver User’s Guide” (CD-ROM).

7 Click [OK].

The [Print] dialog box is displayed.

8 Click [Print].²





When the machine is receiving data, the [INTERFACE] lamp blinks.

When data reception is finished, the machine automatically starts printing according to the settings of the printer driver.

² The button name may vary depending on the application software that you use.

■ About the [INTERFACE] lamp

The lighting / blinking of the lamp informs you of the conditions of this machine and data receiving conditions.

Lightning of lamp	Description
 blinking (fast)	Receiving the data.
 blinking (slow)	<ul style="list-style-type: none"> • The received data is waiting for output instructions. • The received data is in the master-making or printing process.
 lit	The data from your computer can be received.
 off	The receiving of data is disabled.



► If you press the [INTERFACE] key while the lamp is blinking, you can delete the data waiting for output or being received.



Chapter 3

3

Functions for Master Making

Functions for Master Making

For the details and setting procedure of each function, see the pages that are specified as a reference.

■ Functions related to image processing

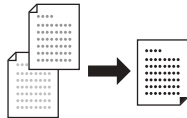
[LINE/PHOTO] [PENCIL] (30)

You can set the processing that is suitable for the type of original.



[SCANNING LEVEL] (31)

You can adjust the scanning level according to the paper color and the tint of the original.



■ Functions related to layout

[Size] (32)

You can enlarge or reduce the size of the original.



[2-UP] (32)

You can lay out two copies of originals side by side on a single sheet of paper.

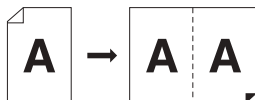


Image Processing That Is Suitable for the Original [LINE/PHOTO] [PENCIL]

You can obtain clearer images by selecting processing that is suitable for the type of original. Set either [LINE/PHOTO] or [PENCIL].

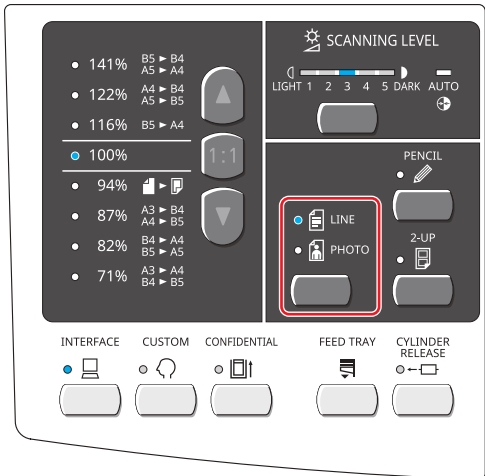


- ▶ You can change the default setting in [Original Scanning Mode Default Setting] (47) under [Custom Setting Mode].

[LINE/PHOTO]

Select the processing that is suitable for the ratio of characters and photos that are included in the original.

1 Press the [LINE/PHOTO] key.



Each press of the [LINE/PHOTO] key changes the setting.

■ [LINE]

Select this function for originals that do not contain photos.

■ [PHOTO]

Select this function when clearness of photos is important.



- ▶ You cannot use this function with [AUTO] under [SCANNING LEVEL] (31).

■ [] [] DUO]

Both [] LINE] and [] PHOTO] light up.
Select this function when you want clearness of both characters and photos.



- ▶ You cannot use this function with [AUTO] under [SCANNING LEVEL] (31).

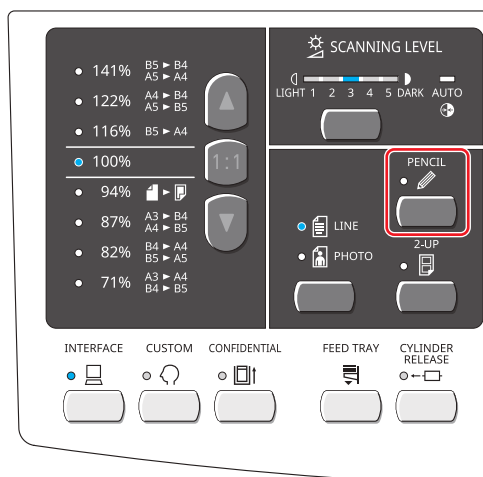
[PENCIL]

Select this function for originals that are pale in color such as an original written in pencil or stamped in red seal-ink.



- ▶ You cannot use this function with [AUTO] under [SCANNING LEVEL] (31).

1 Press the [PENCIL] key.



Press the [LINE/PHOTO] key to turn off [PENCIL].

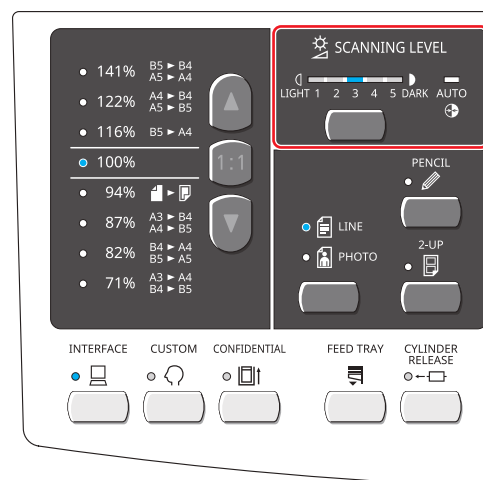
Adjusting the Scanning Level of the Original [SCANNING LEVEL]

You can adjust the contrast according to the conditions such as the paper color and the tint of the original.



- ▶ You can change the default setting in [Scanning Level] (47) under [Custom Setting Mode].

1 Press the scanning level adjustment key.



Each time you press the key, the indicators light in the order of 1 -> 2 -> 3 -> 4 -> 5 -> AUTO -> 1 and so on.

■ [AUTO]

You can select this button only when [LINE] is selected in [LINE/PHOTO] (30).

When you select [AUTO], the scanning level is adjusted optimally according to the paper color of the original.

■ [1] to [5]

You can adjust the scanning density in five levels.

Select [1] for the lowest density.

Select [5] for the highest density.

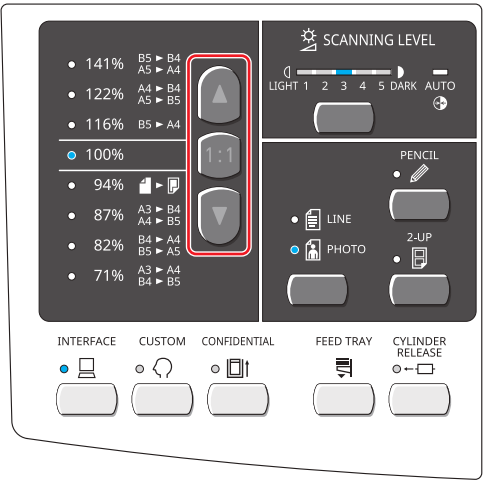
Enlarging or Reducing the Size of the Original [Size]

You can scan an original so that it is enlarged or reduced in size.



► **Image parts outside the range for master making are not printed.**
(13 “Master making area”)

1 Select the magnification rate.



- Pressing the [▲] or [▼] key lights up the lamp of the magnification rate you selected.
- Pressing the [1:1] key returns the magnification rate to 100%.



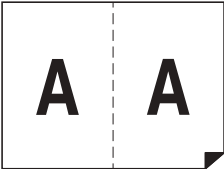
► The standard ratios differ among the models. Check the panel on your machine.

Laying Out Two Copies of Originals on a Single Sheet of Paper [2-UP]

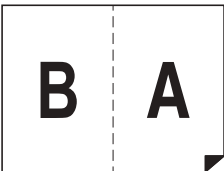
The process for laying out two copies of originals on a single sheet of paper is referred to as “2-UP”.

■ Final images

For one original:

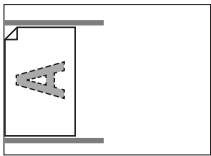
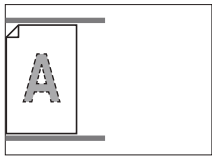


For two originals:



1 Place an original

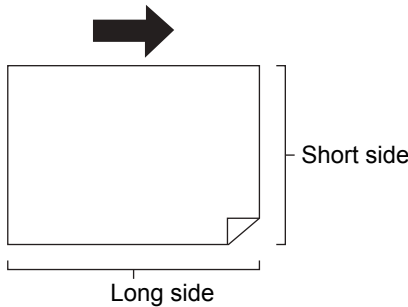
Place an original in the direction shown below.



2 Place the paper.

Place the paper in the direction of a short edge paper feed.

Paper feeding direction





► The available paper size is set to one of the following in [2-Up Printing Paper Size] (📖 48) under [Custom Setting Mode].

- In units of mm:
A4 or B4
- In units of inches:
Letter or Legal

To get proper print results, use the paper size that matches the setting above.

The rest of the procedure is the same as the normal printing operation of paper originals.
(📖 25 “Printing of Paper Originals”)

3 Set the paper receiving tray.

(📖 23 “Setting up the paper receiving tray”)

4 Press the [2-UP] key.

5 Set the other required master making conditions.

(📖 30 “Functions for Master Making”)

(📖 40 “Useful Functions”)



► The reduction and enlargement rates are different from the standard magnification rates. Specify a magnification rate that is shown in the table below.

In units of mm:

		Original			
		A4	B5	A5	B6
Printing Paper	B4	87%	100%	122%	141%
	A4	71%	82%	100%	116%

In units of inches:

		Original	
		Letter	Statement
Printing Paper	Legal	78%	100%
	Letter	65%	100%

6 Press the [START] key.

Scanning of the original starts.

After the first page is scanned, a buzzer sounds for up to 30 seconds.

While the buzzer is sounding, place the next page (or the same page again), and then press the [START] key.



Chapter 4

Functions for Printing

Functions for Printing

For the details and setting procedure of each function, see the pages that are specified as a reference.

[SPEED] (36)
You can adjust the print speed.

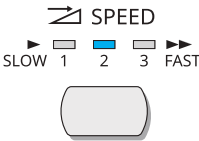
[PRINT POSITION] (37)
You can adjust the print position.

Adjusting the Print Speed [SPEED]

You can adjust the print speed.
It is possible to adjust the print speed not only before but also during the printing process.

► You can change the default setting in [Print Speed] (47) under [Custom Setting Mode].

1 Press the [SPEED] key.



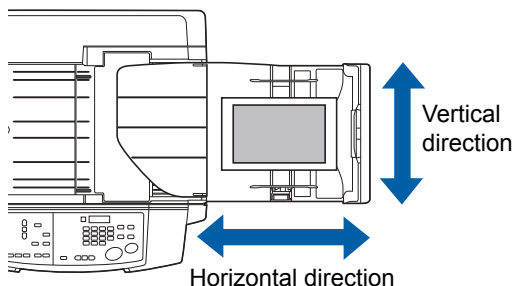
Each press of the [SPEED] key switches the print speed.

The table below shows the relation between the print speed indicator status and the print speed.

Indicator	Print speed (sheets / minute)
<div><div></div><div>1</div></div> <div><div></div><div>2</div></div> <div><div></div><div>3</div></div>	Approximately 60
<div><div></div><div>1</div></div> <div><div></div><div>2</div></div> <div><div></div><div>3</div></div>	Approximately 80
<div><div></div><div>1</div></div> <div><div></div><div>2</div></div> <div><div></div><div>3</div></div>	Approximately 100

Adjusting the Print Position [PRINT POSITION]

You can adjust the print position. The adjustment method differs between the horizontal direction and vertical direction.



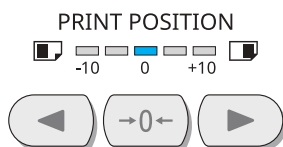
Adjusting the position in the horizontal direction

You can adjust the print position in the horizontal direction using the [PRINT POSITION] keys on the control panel.

It is possible to adjust the print position not only before but also during the printing process.

1 Press the [PRINT POSITION] key ([◀] or [▶]).

Each press of the [◀] or [▶] key moves the printed image by about 0.5 mm (1/64 inches).



- ▶ Press the [→0←] key to return the printed image to the standard position.
- ▶ To return the printed image to the standard position during the printing process, press and hold the [→0←] key.
- ▶ After the adjustment, press the [PROOF] key to check the printed paper.



- ▶ If the following operations are performed, the print position in the horizontal direction is returned to the standard position.

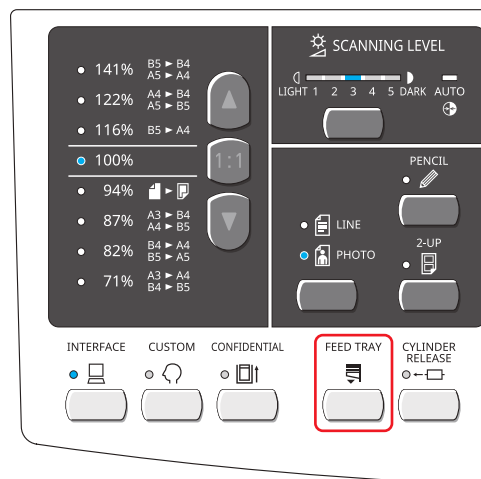
- Press the [RESET] key.
- Turn off the power.

Adjusting the position in the vertical direction

You can adjust the print position by shifting the feed-tray paper guides on the paper feed tray.

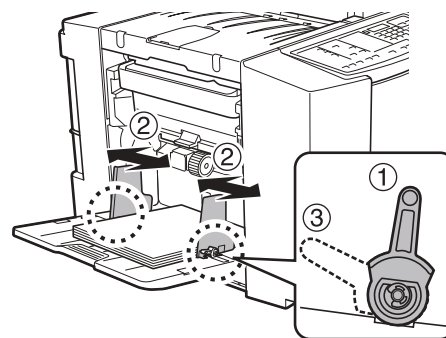
1 Lower the paper feed tray.

Press the [FEED TRAY] key on the control panel to lower the paper feed tray until the paper feed roller separates from the paper.



2 Adjust the feed-tray paper guides.

- ① Raise the lock levers on both sides of the feed-tray paper guides.
- ② Adjust the position by sliding the guides.
- ③ Push down the lock levers to lock the guides.



- ▶ If you have adjusted the position, also adjust the receiving-tray paper guides.



Chapter 5

Useful Functions

Useful Functions

For the details and setting procedure of each function, see the pages that are specified as a reference.

[Program] (40)

You can separate and sort the printed paper by a specified number of sheets.

[CONFIDENTIAL] (43)

You can discard the master that has already been used.

Printing the Sorted Originals [Program]

You can separate the number of copies to be printed for each set.

As the printing process stops for a few seconds after printing the specified number of copies for each set, you can sort the printed paper.



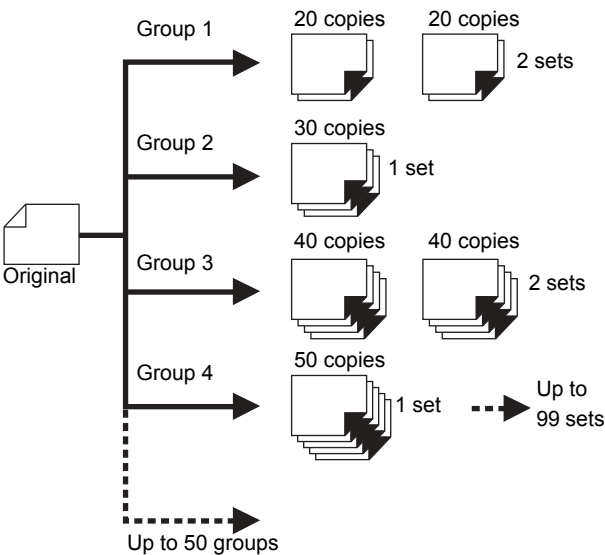
- ▶ We recommend that you remove the printed paper from the paper receiving tray or insert an interleaf manually, during the pause of printing for each separation.

■ Concept

You can set the number of copies to be printed from a single original for each “set”.

The “sets” can be organized into a “group”.

It is possible to set up to 9999 copies × 99 sets × 50 groups.



■ How to use [Program]

There are the following two methods.

- For printing without registering program settings (41 “Setting [Program]”)
- For printing by retrieving a registered [Program] setting (42 “Retrieving [Program]”)

Setting [Program]

1 Press the [P] key.

The [P] key lamp lights up.
[P-a] appears on the numeric display.



2 Press the [+] key.

3 Enter the number of prints for the first group.

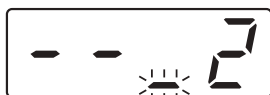
Enter it using the numeric keys.



4 Press the [+] key.

5 Enter the number of sets for the first group.

Enter it using the numeric keys.



6 Press the [+] key.

Then, perform settings for the next group.
Repeat steps 3 to 6 as necessary.



► If you want to register the settings of [Program], go to step 3 in "Registering [Program]" (41).



► If you want to return to the previous step, press the [X] key.

7 Print.

The rest of the procedure is the same as the normal printing operation of paper originals.
(25 "Printing of Paper Originals")



► Printing is performed in the reverse order of registration from the last group. (Example: group 3 -> group 2 -> group 1)

In this case, group 1 is output on the top of the printed paper in the paper receiving tray.

Canceling [Program]

1 Press the [P] key.

The [P] key lamp goes off and [Program] is turned off.

Registering [Program]

It is useful if you register a program that is used frequently.

You can register 6 programs.

1 Set a program.

Perform steps 1 to 6 in "Setting [Program]" (41).

2 Press the [*] key.

3 Enter the program number.

Enter the program number that you want to register using the numeric keys.



- If you enter a program number that is already registered, [a] is displayed in the numeric display.
- If you enter a program number that is not registered, [a] is not displayed in the numeric display.



► If you enter a program number that is already registered, the setting is overwritten. Check to make sure there is no problem if the settings are overwritten.

4 Press the [*] key.

The settings of [Program] are registered.

- When you press the [START] key, printing can be performed according to the [Program] settings that you registered.
- Pressing the [P] key turns off [Program].

Retrieving [Program]

- 1 Press the [P] key.**
The [P] key lamp lights up.
- 2 Press the [*] key.**
- 3 Enter the program number.**
Enter the program number that you want to retrieve using the numeric keys.



- 4 Press the [+] key.**
The settings that you registered are retrieved.
 - When you press the [START] key, printing can be performed according to the [Program] settings that you retrieved.
 - Pressing the [P] key turns off [Program].

Changing the settings of [Program]

- 1 Retrieve a program.**
Perform steps 1 to 4 in “Retrieving [Program]”.
- 2 Press the [+] key.**
You can now change the settings.
- 3 Change the settings of the program.**
Change the number of copies and the number of sets.
 - Pressing the [C] key clears the values that were set, and you can input a new entry using the numeric keys.
 - Pressing the [+] key goes to the next input target.
 - Pressing the [x] key goes back to the previous input target.
- 4 Press the [*] key.**
For the rest of the procedure, register the changes by performing steps 3 and 4 in “Registering [Program]”.

Erasing [Program]

- 1 Press the [P] key.**
The [P] key lamp lights up.
- 2 Press the [*] key.**
- 3 Enter the program number.**
Using the numeric keys, enter the program number that you want to erase.



- 4 Press the [C] key.**
- 5 Press the [START] key.**
[Program] that you specified is erased.
- 6 Press the [P] key.**
[Program] is turned off.

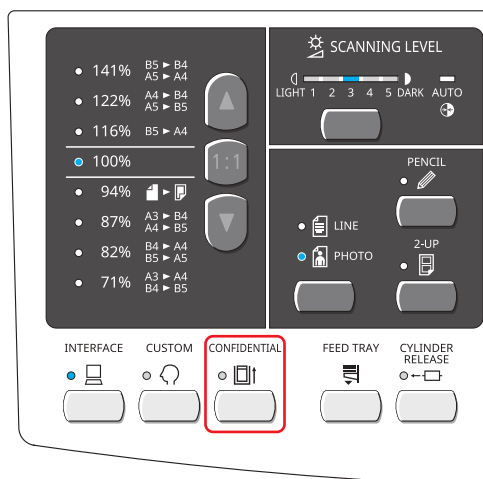
Preventing Copying of Confidential Documents [CONFIDENTIAL]

After printing, the master that has been made is still loaded on the print drum (cylinder) in the print ready status.

When [CONFIDENTIAL] is turned on, the master that has been made is discarded. Therefore, you can prevent improper printing of confidential documents.

As a blank master is loaded on the print drum (cylinder), the master also plays the role of a cover to prevent ink in the print drum (cylinder) from drying out when printing is not performed for a long time.

1 Press the [CONFIDENTIAL] key.



5

2 Press the [START] key.

The master on the print drum (cylinder) is discarded and a blank master is loaded.



Chapter 6

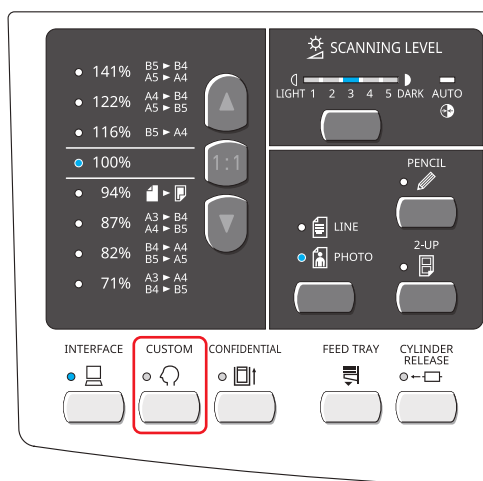
Setting the Operation Conditions

Setting the Operation Conditions [Custom Setting Mode]

You can change the default values and set the system control-related settings in order to make this machine more convenient for use.

Basic operation of [Custom Setting Mode]

1 Press the [CUSTOM] key.



The [CUSTOM] lamp lights up.

2 Enter the item number.

Referring to the list of setting items (47), enter the item number that you want to set.



The number that you entered is displayed in the numeric display.

3 Press the [START] key.

4 Enter the number of the setting value.



5 Press the [START] key.

The setting is complete.

If you want to change multiple setting items, repeat steps 2 to 5.




► If you want to cancel the change, press the [STOP] key instead of the [START] key.

6 Press the [CUSTOM] key.

The settings that you changed are applied and the mode returns to normal.

List of setting items

- The factory default settings are underlined in the following list.

Item number	Setting item	Description					
		0	1	2	3	4	5
1	[Print Speed] You can change the default setting of the print speed (📖 36).	Level 1	Level 2	<u>Level 3</u>			
2	[Auto Process] You can change the default setting of [Auto Process] (📖 20).	<u>OFF</u>	ON				
3	[Scanning Level] You can change the default setting of scanning level (📖 31).	Level 1	Level 2	Level 3	Level 4	Level 5	<u>Auto</u>
4	[Original Scanning Mode Default Setting] You can change the default settings of [LINE/PHOTO] and [PENCIL] (📖 30).	<u>Line</u>	Photo	Duo	Pencil		
5	[First Print Vertical Position Setting] <ul style="list-style-type: none"> When this item is set to [OFF], the vertical position of the first print (the proof copy in the master making process) is centered. When this item is set to [ON], the vertical position of the first print keeps the adjusted value. 	<u>OFF</u>	ON				
6	[Idling] When this item is set to [ON], the operation to ensure the ink usability and stability is performed during the next master making.	<u>OFF</u>	ON				
7	[Minimum Print Q'ty] You can set master making to be performed only when the entered number of printed copies is more than the specified number.  <ul style="list-style-type: none"> You can lock the setting of [Minimum Print Q'ty], so that it cannot be changed. For more information, consult your dealer or authorized service representative. 	<u>0page</u>	10pages	20pages	30pages	40pages	50pages

Item number	Setting item	Description					
		0	1	2	3	4	5
8	[Beep Sound] <ul style="list-style-type: none"> When this item is set to [Level 0], no buzzer will occur. When this item is set to [Level 1], an error sound will occur in case of an error. When this item is set to [Level 2], not only an error sound, but also operation sounds for items such as keys, and confirmation sounds for the completion of an operation will occur. 	<u>Level 2</u>	Level 1	Level 0			
9	[Print Count Hold Setting] <ul style="list-style-type: none"> When this item is set to [Return], the numeric display returns to the set number of sheets after printing is complete. (Example: When printing with the number of prints set to "100", the numeric display returns to "100".) When this item is set to [Do Not Return], the numeric display remains "0" after printing is complete. 	<u>Do Not Return</u>	Return				
10	[Paper Ejection Adjustment] If printing paper sticks to the print drum (cylinder) frequently, select a higher level setting.	OFF	<u>Low</u>	Medium	High		
11	[2-Up Print Hold Setting] <ul style="list-style-type: none"> When this item is set to [Return], [2-UP] remains on after master making or printing by [2-UP] is complete. When this item is set to [Do Not Return], [2-UP] turns off after master making or printing by [2-UP] is complete. 	<u>Do Not Return</u>	Return				
12	[2-Up Printing Paper Size] You can set the paper size to be used in [2-UP] (32).	In units of mm:					
		A4	<u>B4</u>				
		In units of inches:					
		Letter	<u>Legal</u>				

Item number	Setting item	Description					
		0	1	2	3	4	5
13	[Auto Sleep Setting] You can set this machine to go into sleep mode, in which power consumption can be reduced, if this machine has not been used for a certain amount of time. Even while this machine is in sleep mode, this machine can receive original data from the computer.	None	<u>5 minutes</u>	15 minutes	30 minutes	60 minutes	90 minutes
14	[Auto Power-OFF Setting] You can set the power to be automatically turned off if this machine has not been used for a certain amount of time.	None	5 minutes	15 minutes	30 minutes	<u>60 minutes</u>	90 minutes
15	[Reserve Period] Even if this machine has been left untouched after the operation stops, master making of the received original data does not start until a certain amount of time has elapsed. This certain amount of time is referred to as a “reserve period”.	None	<u>15 seconds</u>	30 seconds	60 seconds		
30	[Total Print Count Display] Shows the accumulated number of copies that have been printed on this machine. The value does not include proof copies that were output during master making.	📖 50 “Displaying the Accumulated Counts [Meter Display]”					
31	[Total Master Count Display] Shows the accumulated count of master making processes that have been performed on this machine. The value includes the count of [Idling] (📖 47) and [CONFIDENTIAL] (📖 43) that have been performed.						
99	[Reset to Default Setting] You can restore all the settings of [Custom Setting Mode] to the factory default settings.	Cancel	OK				

Displaying the Accumulated Counts [Meter Display]

You can check the accumulated results for the count of master making processes and the number of printed sheets.

1 Press the number of the item that you want to check in [Custom Setting Mode].

Item number	Setting item
30	[Total Print Count Display] Shows the accumulated number of copies that have been printed on this machine. The value does not include proof copies that were output during master making.
31	[Total Master Count Display] Shows the accumulated count of master making processes that have been performed on this machine. The value includes the count of [Idling] (47) and [CONFIDENTIAL] (43) that have been performed.

2 Press the [START] key.
The first four digits of the count value are displayed.

3 Press the [+] key.
The last four digits of the count value are displayed.

4 Press the [+] key.
The numeric display returns to [0-].
Input a new item number if necessary.
To exit [Custom Setting Mode], press the [CUSTOM] key.



Chapter 7

Replacing Consumables

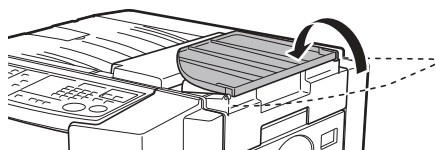
Setting the Master Roll

If a master roll is depleted, the [MASTER ROLL] lamp (64) lights and this machine stops. Set a new master roll in place.



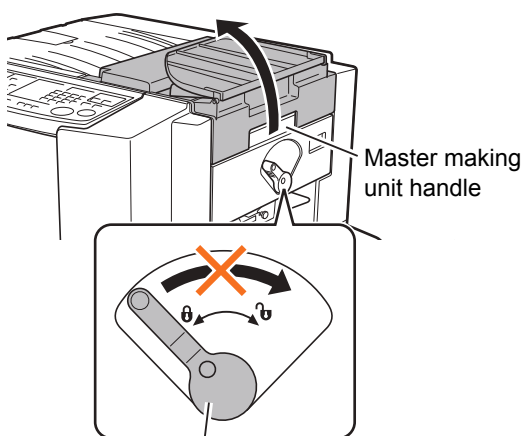
- It is recommended to use products specified by RISO when replacing the master roll.
- Keep the power on while replacing the master roll.

1 Turn over the original tray.



2 Open the master making unit cover.

Lift and open the master making unit cover by holding the master making unit handle.



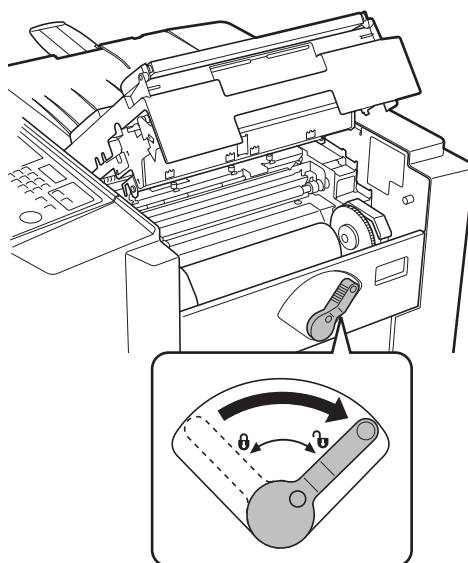
Master roll lock lever



- Leave the master roll lock lever at the lock position until opening the master making unit cover. Forcefully turning this lever will cause damage to the machine.

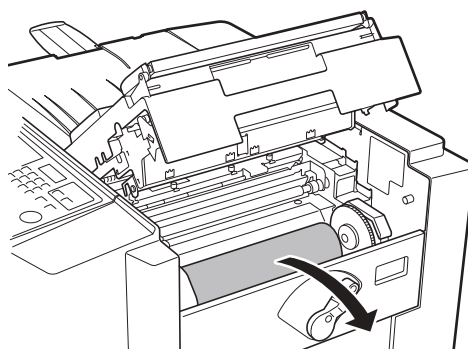
3

Turn the master roll lock lever clockwise to unlock the master roll.



4

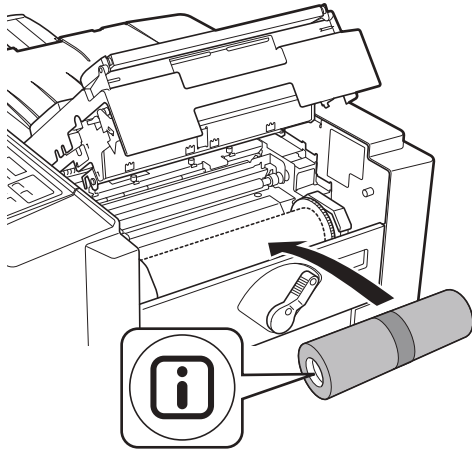
Remove the depleted master roll.



- Dispose of the depleted master roll according to the disposal rules of your local community. (57 "Collecting and Disposing of Depleted Consumables")

5 Install a new master roll.

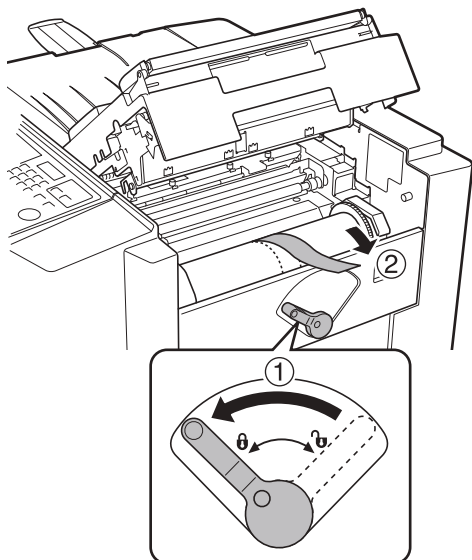
Remove the shrink-wrap (transparent film) from the new master roll, and place the roll so that the [i] mark on the master core is on the left.



! ▶ Do not remove the tape yet.

6 Turn the master roll lock lever counterclockwise to lock the master roll.

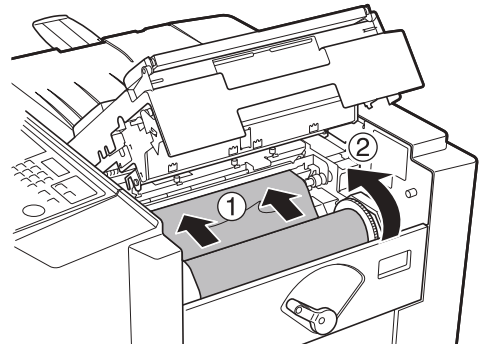
After locking the master roll, remove the tape.



7 Insert the leading edge of the master roll into its entrance under the master guide flap.

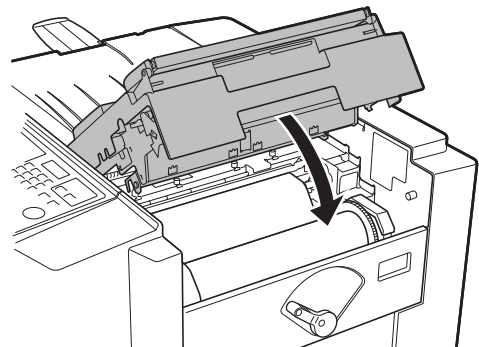
Insert the leading edge under the master guide flap until it stops (1).

If the master is loose, turn the flange at the right inward to rewind (2).



8 Close the master making unit cover.

After closing the master making unit cover, place the original tray into position.



Replacing the Ink Cartridge

When the ink is depleted, the [INK CARTRIDGE] lamp (64) lights and this machine stops. Replace the ink cartridge with a new one.



- It is recommended to use products specified by RISO when replacing the ink cartridge.
- Keep the power on while replacing the ink cartridge.

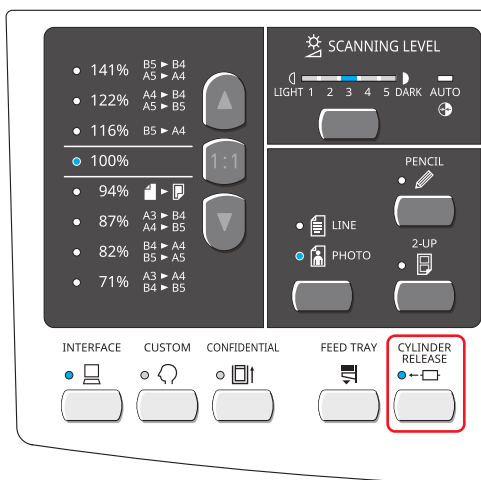


Caution

Ink may be left on the area around the print drum (cylinder). Take care not to smudge your hands or clothes with the ink. Wash immediately with soap if you get ink on your hands, etc.

1 Press the [CYLINDER RELEASE] key.

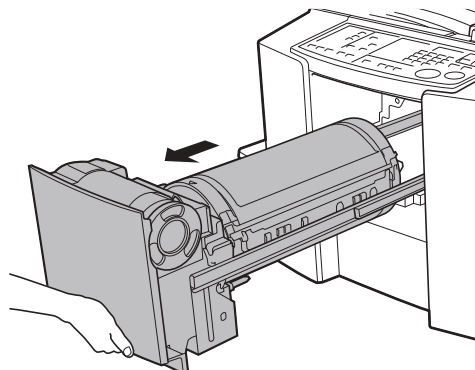
Make sure that the [CYLINDER RELEASE] lamp is turned on.



- If you forcibly pull out the print drum (cylinder) when its release lamp is turned off, the print drum (cylinder) may be damaged.

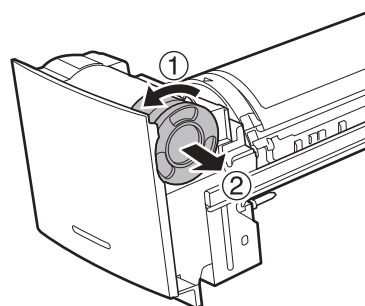
2 Pull out the print drum (cylinder).

Grasp the print drum (cylinder) handle and pull out the print drum (cylinder) until it stops.



3 Pull the empty ink cartridge out of the holder.

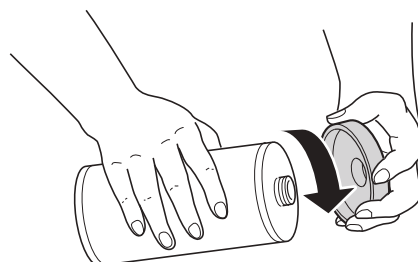
Turn the ink cartridge counterclockwise, and then pull it out.



- Dispose of the depleted ink cartridge according to the disposal rules of your local community. (65 "Collecting and Disposing of Depleted Consumables")

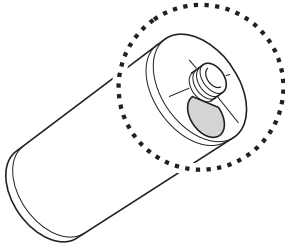
4 Remove the cap from a new ink cartridge.

Turn the cap of the ink cartridge to remove the cap.



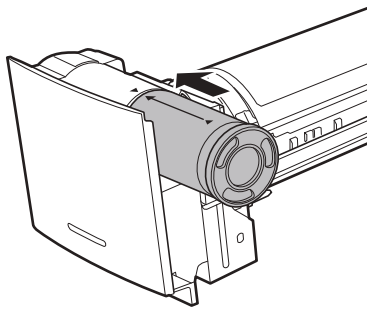


- ▶ Do not touch or hit the outlet surface of the new ink cartridge. Do not remove the label attached to the outlet surface of the ink cartridge.



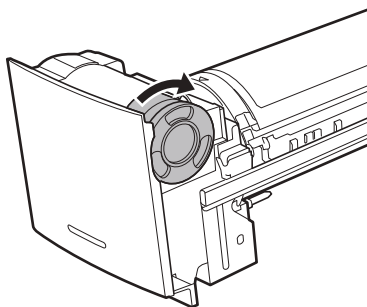
5 Insert the new ink cartridge.

Align the arrow of ink cartridge with the [▼] mark on the holder, and push the ink cartridge until it stops.



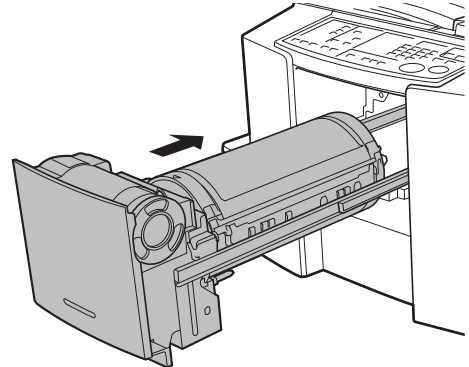
6 Lock the ink cartridge.

Turn the ink cartridge clockwise to lock it.



7 Return the print drum (cylinder) to the original position.

Insert the print drum (cylinder) until it stops.



Emptying the Master Disposal Box

Used masters are sent to the master disposal box. When the master disposal box becomes full, the [↑] EMPTY DISPOSAL BOX lamp (64) lights and this machine stops. Dispose of the used masters.



► **Keep the power on while emptying the master disposal box.**



Caution

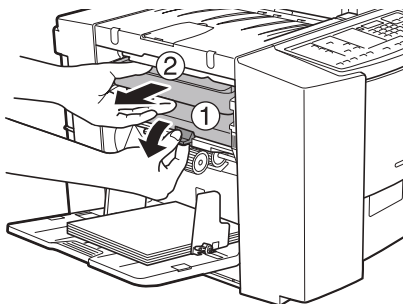
Wash immediately with soap if you get ink on your hands, etc.

1 Pull out the master disposal box.

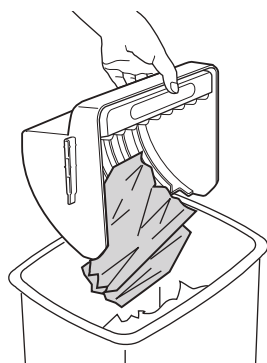
Hold down the master disposal box release lever and pull out the box.



► **Make sure that the paper feed tray is lowered to the bottom before pulling out the master disposal box. If it is not, press the [FEED TRAY] key on the control panel to lower the paper feed tray to the bottom.**

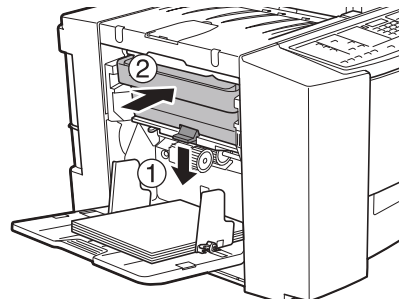


2 Discard the ejected masters.



3 Place the master disposal box into position.

Hold down the master disposal box release Lever, and insert the master disposal box pushing until it stops.



► **Once you pull out the master disposal box, make sure to empty it before placing it into position.**

► **Dispose of the ejected masters according to the disposal rules of your local community. (57 "Collecting and Disposing of Depleted Consumables")**

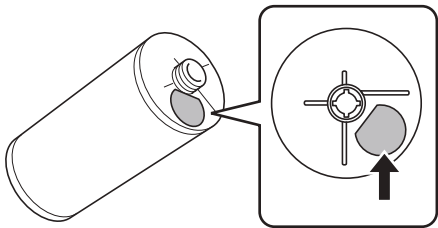
Collecting and Disposing of Depleted Consumables

Ink cartridge

- Dispose of the depleted ink cartridges according to the disposal regulations of your local community. If required, separate the specific components using the following procedures as a reference.

Parts	Materials
Ink cartridge and cap	Plastic (polypropylene or polyethylene)
Label	Plastic (metal included)
Ink	Petroleum carbon hybrid, water, and pigment

- Remove the label at the edge of the ink cartridge by peeling it off from the section indicated with the arrow in the illustration below, and then dispose of it separately.



Caution

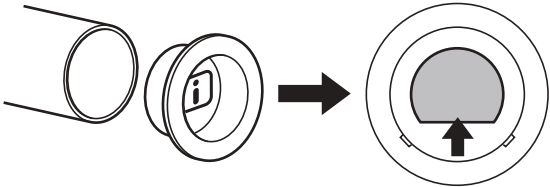
Ink may be left on the area around the edge of the ink cartridge. Take care not to smudge your hands or clothes with the ink. Wash immediately with soap if you get ink on your hands, etc.

Master core

- Dispose of the depleted master core according to the disposal regulations of your local community. If required, separate the specific components using the following procedures as a reference.

Parts	Materials
Core	Paper
Master roll	Plastic, Japanese paper
Plastic cap	Plastic (polypropylene)
Label	Plastic (metal included)

- A metallic component has been attached to the bottom of the end section with the [i] mark stamped. Remove the plastic cap from the master core, and peel off the metallic component from the rear surface of the cap.



Used master

- Dispose of the used masters according to the disposal regulations of your local community. If required, separate the specific components using the following procedures as a reference.

Parts	Materials
Master roll	Plastic, Japanese paper
Ink	Petroleum carbon hybrid, water, and pigment



- The master is made of carbon and hydrogen compounds. If it is fully combusted, it will turn into water and carbon dioxide.



Chapter 8

Maintenance

Maintenance

The finish of prints may be stained or blurred if the thermal print head of the master making unit, parts such as the scanner glass and white sheet of the document feeder, or other parts are contaminated with dust, dirt, white-out, etc. We recommend that you perform maintenance periodically.



Caution

Do not perform any procedures (adjustment, repair, etc.) that are not described in this guide. When you want to adjust or repair, consult your dealer or authorized service representative.

Thermal print head

The thermal print head is a component that produces heat during master making and forms minute holes on the master. Clean it whenever the master roll is replaced.

Open the master making unit cover, and then gently wipe the thermal print head in the back of the unit several times with a soft cloth, etc.



Caution

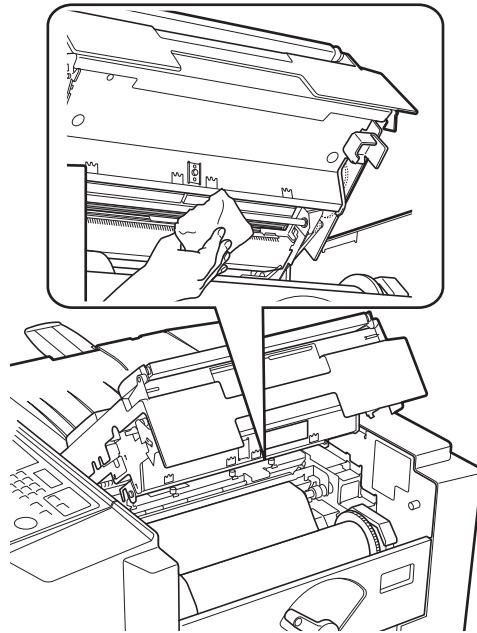


Hot surface

Since the thermal print head may be heated, do not touch it directly with your fingers.



- ▶ The thermal print head is extremely delicate. Avoid creating excessive impacts or scratches with a hard object.
- ▶ The thermal print head is susceptible to static electricity. Be sure to remove the static electricity charge that is accumulated in your body before cleaning.

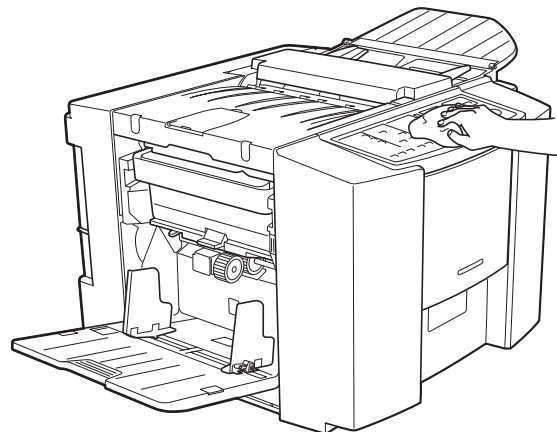


Exterior

Use a soft cloth to gently wipe the entire exterior periodically in order to protect the machine exterior from dust.

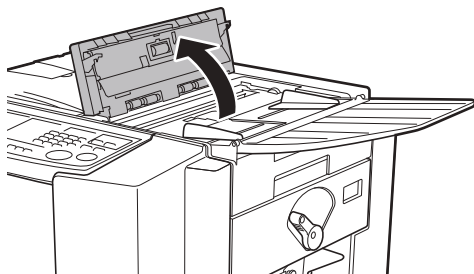


- ▶ Plastic is used for the machine exterior. Do not use alcohol or solvent for cleaning.

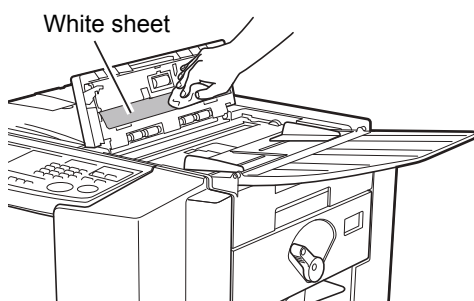
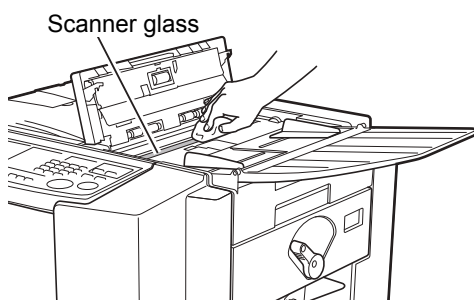


Document feeder

- 1 Grasp the original release lever and open the cover.



- 2 Gently wipe and clean the scanner glass and the white sheet with a soft cloth or tissue.



- Since the scanner glass is very delicate, avoid hitting or scratching it with a hard object.

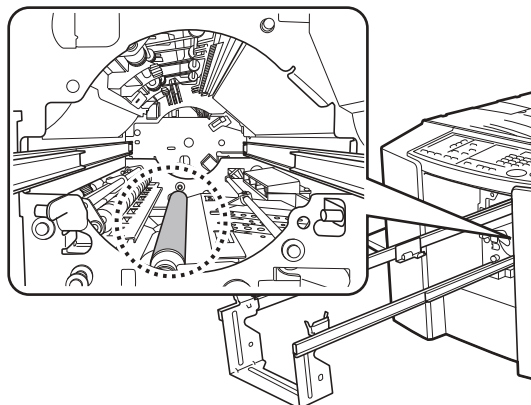


- For more effective cleaning, dampen a soft cloth or tissue with a small amount of alcohol before wiping the scanner glass and white sheet.

Pressure roller

The pressure roller is a component that presses a paper against the print drum (cylinder) unit. If the pressure roller is stained, smudged strips may appear on the back of papers.

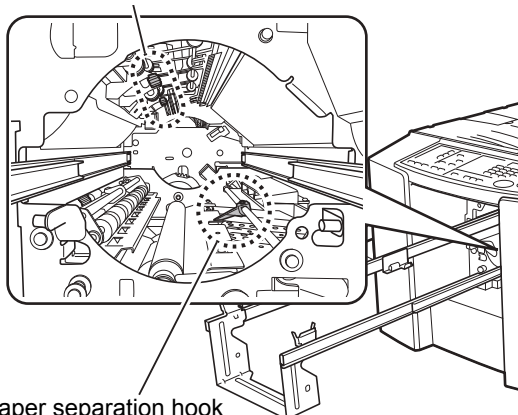
Gently wipe the pressure roller several times with a soft cloth or tissue paper.



Caution

- Be sure to turn off the power to this machine when cleaning the pressure roller.
- Ink may be left on the inside of this machine after the print drum (cylinder) unit has been removed. Take care not to smudge your hands or clothes with the ink. Wash immediately with soap if you get ink on your hands, etc.
- When you put your hands inside the main unit, take care not to touch the paper separation hook or master removal hooks. The sharp tips of these hooks can hurt your hands.

Master removal hooks



Paper separation hook



Chapter 9

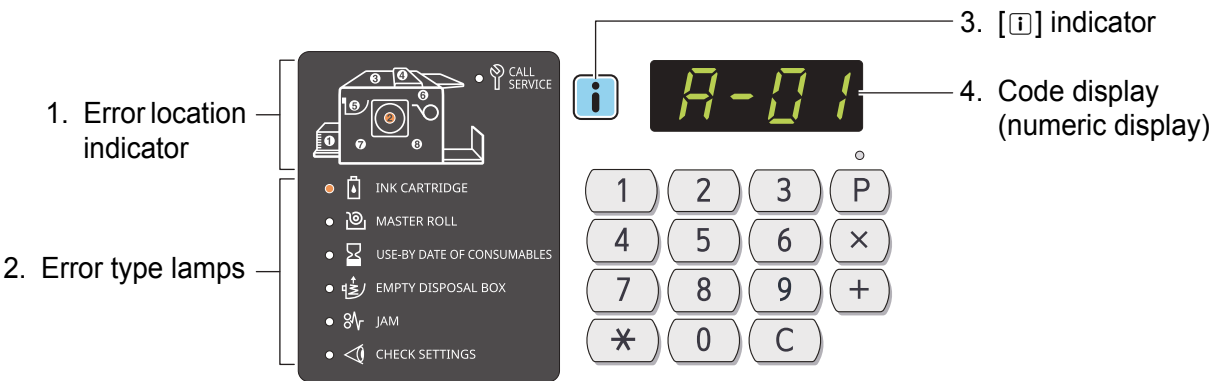
Troubleshooting

Check & Error Display

When an error occurs on the machine or when consumables or other sections are not yet ready, the check & error display shows error locations and numbers indicating error types. For some errors, error numbers are shown on the numeric display.

Checking with the check & error display

Besides lamps that show error types, numbers that show error locations light. Check the display and take an appropriate procedure according to the methods described on the subsequent pages.



1. Error location indicator

The lamp of the location at which an error is occurring lights up.

2. Error type lamps

- **[i] INK CARTRIDGE lamp**
Blinks or lights when the remaining amount is small.







Display	Remaining amount
Off	21% or more
Blinking (slow)	11-20%
Blinking (fast)	10% or less
Lit	Empty

([54](#) “Replacing the Ink Cartridge”)


- **[i] MASTER ROLL lamp**
Blinks or lights when the remaining amount is small.






Display	Remaining amount
Off	21% or more
Blinking (slow)	11-20%
Blinking (fast)	10% or less
Lit	Empty

([52](#) “Setting the Master Roll”)

- **[ USE-BY DATE OF CONSUMABLES] lamp**
Lights when use-by date of the ink or the master roll has come.
 - **[ EMPTY DISPOSAL BOX] lamp**
Lights when the master disposal box is filled with discarded masters. ([📖 56](#) “Emptying the Master Disposal Box”)
 - **[ JAM] lamp**
Lights when original or paper jams occur inside the machine or the document feeder.
 - **[ CHECK SETTINGS] lamp**
Lights when the print drum (cylinder), paper, or other items have not been set up yet.
 - **[ CALL SERVICE] lamp**
Lights when such an error occurs that needs advices or supports from service personnel.
-  ▶ If the information cannot be acquired from the ink cartridge and master roll, the status of remaining amount is not indicated and the lamp keeps lighting.

3. [] indicator


The color of the [] indicator shows the status of this machine.

Display	Description
 (Blue)	This machine is operating properly.
 (Yellow)	This machine is operating properly, but the function (remaining amount display, etc.) that requires the matching information cannot be activated. 📖 74 “When the [] indicator blinks and [H] is displayed in the numeric display”
 (Off)	📖 75 “When the [] indicator goes off and an error code is displayed in the numeric display”


4. Code display (numeric display)

The error or warning code blinks.



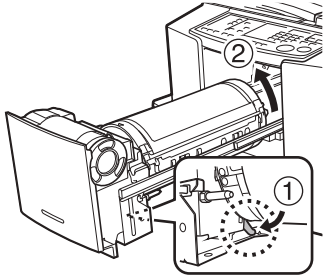
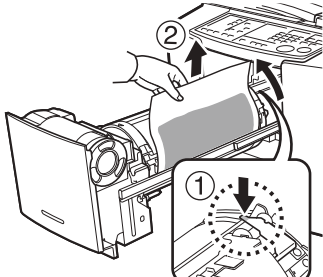
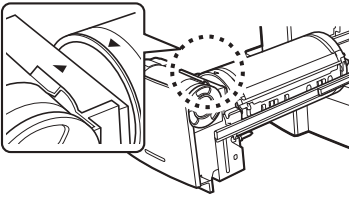





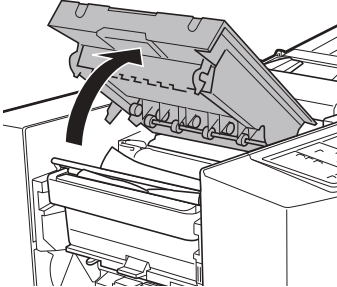

- ▶ If the code is not shown, press the [] key.

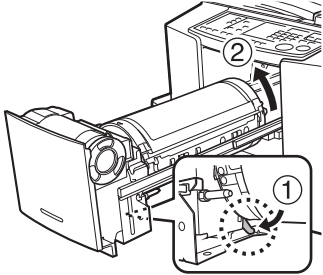
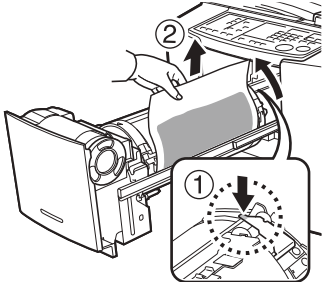
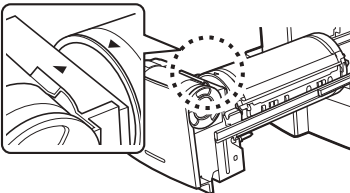
■ P00-0000: Service call error

When the [ CALL SERVICE] lamp lights, check the code (P00-0000) on the numeric display and contact your dealer or authorized service representative.

■ A00-0000: Master jam error












Location	Type	Code	Possible cause	Action
⑥	8/r	A01	A master has not been correctly set.	Open the master making unit cover, remove the master roll, and set the master correctly. If the master is loose, turn the right flange inward to correct it, and close the master making unit cover. ( 52 “Setting the Master Roll”)
②	8/r	A02	A master has not been correctly wrapped around the print drum (cylinder).	<p>1) Pull out the print drum (cylinder). ( 72 “Removing the print drum (cylinder)”) If no master is wrapped around the print drum (cylinder), proceed to Step 6). If wrapped, proceed to Step 2).</p> <p>2) Press the print drum (cylinder) release lever (①), hold the edge of the print drum (cylinder), and turn the drum (cylinder) until the clamp plate (metallic plate locking the master) comes to the top (②).</p>  <p>3) Press the clamp plate release lever (①) to unlock the clamp plate, hold the edge of the master, and then separate the master while turning the print drum (cylinder) (②).</p>  <p>4) Rotate the print drum (cylinder) until it is locked by the print drum (cylinder) release lever and the ▲ and ▼ marks align.</p>  <p>5) Set the print drum (cylinder) into the machine. 6) Open the master making unit cover and set the master again. 7) Close the master making unit cover. 8) Perform the master-making operation again.</p>

Location	Type	Code	Possible cause	Action
②	⌘r	A02	A master has not been correctly wrapped around the print drum (cylinder).	<div>  Caution </div> <ul style="list-style-type: none"> • The print drum (cylinder) consists of a lot of metallic parts. Do not touch those parts more than necessary. Your hand may be cut. • When rotating the print drum (cylinder) during maintenance, hold the outer edge of the print drum (cylinder). Your hands may become dirty with ink if you press the master wrapped around the print drum (cylinder). • The clamp plate is open when you are pressing the clamp plate release lever. When you release the lever, the clamp plate closes. Take extreme care not to be pinched, or your hand may be injured. • When you remove the master from the print drum (cylinder), the ink is spread on the master. Take care not to allow the master to come in contact with other parts or objects.
②	⌘r	A04	Master ejection has failed.	<ol style="list-style-type: none"> 1) Pull out the print drum (cylinder) and remove the master from the drum (cylinder) by hand. ( 72 "Removing the print drum (cylinder)") 2) Set the print drum (cylinder) again. 3) Press the [START] key.
⑤	⌘r	A05	A master jam has occurred in the master disposal section.	<p>Remove the master disposal box and remove the jammed master. ( 56 "Emptying the Master Disposal Box")</p> <p>If you cannot remove the jammed master even after removing the master disposal box, open the master disposal unit and remove the master.</p> <div>  </div> <div>  <p>► Once you pull out the master disposal box, make sure to empty it before placing it back into position.</p> </div>

Location	Type	Code	Possible cause	Action
②	⌘r	A16	An unnecessary master remains on the print drum (cylinder).	<p>1) Pull out the print drum (cylinder). (book 72 “Removing the print drum (cylinder)”)</p> <p>2) Press the print drum (cylinder) release lever (①), hold the edge of the print drum (cylinder), and turn the drum (cylinder) until the clamp plate (metallic plate locking the master) comes to the top (②).</p>  <p>3) Press the clamp plate release lever (①) to unlock the clamp plate, hold the edge of the master, and then separate the master while turning the print drum (cylinder) (②).</p>  <p>4) Rotate the print drum (cylinder) until it is locked by the print drum (cylinder) release lever and the ▲ and ▼ marks align.</p>  <p>5) Set the print drum (cylinder) into the machine.</p> <p>6) Open the master making unit cover and set the master again.</p> <p>7) Close the master making unit cover.</p> <p>8) Perform the master-making operation again.</p>
⑥	⌘r	A17	A master has not been cut correctly.	<p>1) Remove the master roll and close the master making unit cover.</p> <p>2) Set the master again. (book 52 “Setting the Master Roll”)</p>
⑥	◁	A34	A master roll has not been set correctly.	<p>Set the master roll in place correctly. (book 52 “Setting the Master Roll”)</p> <p>❗ ► If the rewound master roll is wrinkled or cut in a zig-zag manner, cut off the end of the master roll by using a cutter, etc., and then set it in place.</p>









■ C00-0000: Consumable error









If the code is not shown, press the [*] key.

Location	Type	Code	Possible cause	Action
②		C01	The ink is depleted.	Replace the ink cartridge with a new one. (54 "Replacing the Ink Cartridge")
⑥		C02	The master roll is depleted.	Remove the master core from the master making unit, and then set a new master roll in place. (52 "Setting the Master Roll")
⑤		C03	The master disposal box is full.	Dispose of the masters in the master disposal box. (56 "Emptying the Master Disposal Box")
①		C04	The tray has run out of paper.	Set paper on the paper feed tray. (22 "Setting up the paper feed tray and the paper")
②	 	C11	The ink is old.	Replace the ink cartridge with a new one. (54 "Replacing the Ink Cartridge")
⑥	 	C12	The master is old.	Replace the master roll with a new one. (52 "Setting the Master Roll")
② ⑥	  	C13	The ink and master is old.	Replace the ink cartridge and the master roll with new ones. (54 "Replacing the Ink Cartridge") (52 "Setting the Master Roll")



■ D00-0000: Installation error

If the code is not shown, press the [*] key.

Location	Type	Code	Possible cause	Action
②		D01	The print drum (cylinder) is not set in place or not set correctly.	Set the print drum (cylinder) in place correctly.
③		D02	An inappropriate print drum (cylinder) is set.	Set an appropriate print drum (cylinder) in place.  ► Use the dedicated print drum (cylinder) for this machine. If other print drums (cylinder) are used, it may result in malfunctions or problems.
②		D03	The ink cartridge is not set in place.	Set the ink cartridge in place correctly. (54 "Replacing the Ink Cartridge")
②		D04	An inappropriate ink cartridge is set.	Set an appropriate ink cartridge in place.  ► Use the ink cartridge that is recommended by RISO. If other ink cartridges are used, it may result in malfunctions or problems.
			The label at the edge of the ink cartridge has been peeled off or stained.	The label at the edge of the ink cartridge contains the necessary information for printing. Set an ink cartridge in place on which an unstained label is properly attached. (54 "Replacing the Ink Cartridge")
⑥		D05	The master roll is not set in place.	Set the master roll in place correctly. (52 "Setting the Master Roll")
③ ⑤		D07	The master disposal box is not set in place or not set correctly.	Set the master disposal box in place correctly. (56 "Emptying the Master Disposal Box")







Location	Type	Code	Possible cause	Action
6		D08	The master making unit cover is open or is not set correctly.	Close the master making unit cover correctly.
-		D13	The rear cover of this machine is removed.	Consult your dealer or authorized service representative.
6		D17	An inappropriate master roll is set.	Set an appropriate master roll in place.  ► Use the master roll that is recommended by RISO. If other master rolls are used, it may result in malfunctions or problems.
			The label at the opposite side of the [i] mark of the master core has been peeled off or contaminated.	The label attached to the opposite side of the [i] mark of the master core contains the necessary information for printing. Set a master roll in place that contains a label that is not bent or cut. ( 52 "Setting the Master Roll")
4		D23	The document feeder cover is open or is not set correctly.	Close the document feeder cover correctly.
2		D45	Ink from the ink cartridge is not being supplied appropriately.	The ink cartridge may have not been installed properly. Remove the ink cartridge and set it again. ( 54 "Replacing the Ink Cartridge")




■ E00-0000: Maintenance call error

Location	Type	Code	Possible cause	Action
-		E01	Low battery.	Consult your dealer or authorized service representative for battery replacement.
-		E02	Notifies user about the need for a periodic inspection.	Consult your dealer or authorized service representative for periodic inspection.




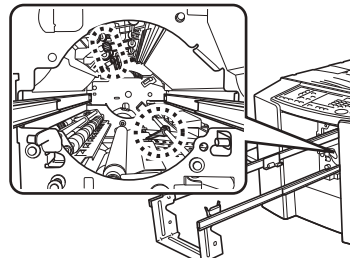
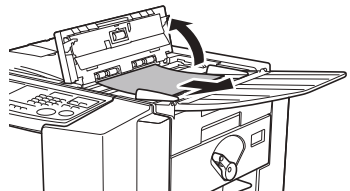
■ F00-0000: Warning

If the code is not shown, press the [*] key.

Location	Type	Code	Possible cause	Action
2		F01	No master is attached to the print drum (cylinder).	Perform master making.  ► If you leave the print drum (cylinder) with no master attached, the print drum (cylinder) will dry, and this situation may result in malfunctions. Be sure to perform master making or [CONFIDENTIAL] ( 43) and load a master on to the print drum (cylinder).
-		F05	An attempt is being made to print a smaller number of copies than the minimum print quantity.	Enter a value that is larger than the value that is specified in [Minimum Print Q'ty] ( 47) under [Custom Setting Mode].
6		F50	The thermal print head is too hot.	Wait for the thermal print head to cool down. Press the [RESET] key to erase the warning message.

Location	Type	Code	Possible cause	Action
-		F51	The ink has passed the recommended Use By date.	Press the [RESET] key to erase the warning message. In order to use the ink cartridge under optimal conditions, use it within approximately 18 months after its manufacture date.
-		F56	The master has passed the recommended Use By date.	Press the [RESET] key to erase the warning message. In order to use the master roll under optimal conditions, use it within approximately 18 months after its manufacture date.
-		F57	The ink and the master have passed the recommended Use By date.	Press the [RESET] key to erase the warning message. In order to use the ink cartridge and the master roll under optimal conditions, use them within approximately 18 months after their manufacture date.

■ J00-0000: Paper jam error

Location	Type	Code	Possible cause	Action
②		J00*	A paper jam has occurred around the print drum (cylinder).	<ol style="list-style-type: none"> 1) Pull out the print drum (cylinder). ( 72 "Removing the print drum (cylinder)") 2) If you find jammed paper, remove it. <div style="display: flex; align-items: center;">  <div style="margin-left: 5px;"> Caution <ul style="list-style-type: none"> • When putting your hand into the machine to remove paper, do not touch the paper separation hook. The sharp tip of the hook may hurt your hand. </div> </div> 
④			An original jam has occurred in the document feeder.	Remove the original jammed in the document feeder. <ul style="list-style-type: none"> • Grasp the original release lever and open the document feeder to remove the jammed original. 
⑧			A paper jam has occurred on the paper feed tray section.	<ol style="list-style-type: none"> 1) Press the [FEED TRAY] key to lower the paper feed tray, and remove the jammed paper. 2) Set paper again. 3) If the error indications do not disappear, press the [RESET] key.
⑨			A paper jam has occurred on the paper receiving tray section.	Remove the paper jammed in the paper receiving tray section. If you have changed the horizontal paper position, also adjust the position of the receiving-tray paper guides. If the error indications do not disappear, press the [RESET] key.

* The number indicated in the "00" part of "J00" varies depending on the error location.

Removing the print drum (cylinder)

When you want to remove jammed paper inside this machine, you can remove the print drum (cylinder).



Caution

- Ink may be left on the area around the print drum (cylinder) or the inside of this machine after the print drum (cylinder) unit has been removed. Take care not to smudge your hands or clothes with the ink. Wash immediately with soap if you get ink on your hands, etc.
- When you put your hands inside the main unit, take care not to touch any protrusions or edges of the metal plate. It may result in injury.
- Do not stand the print drum (cylinder) vertically. Doing so may stain the floor, etc.

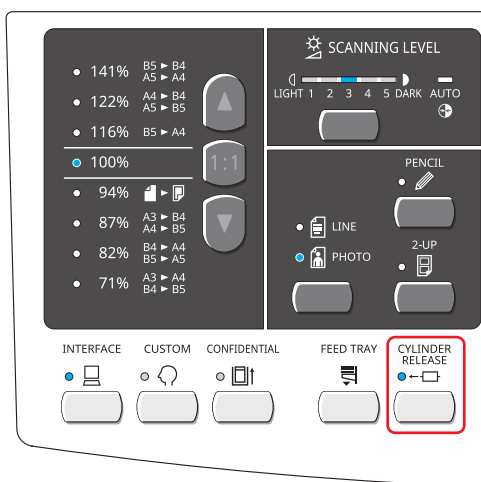


- ▶ **Use a dedicated print drum (cylinder) for this machine. Only black ink is acceptable.**
- ▶ **Keep the power on while removing or replacing the print drum (cylinder).**
- ▶ **Store the replaced print drum (cylinder) horizontally in the print drum (cylinder) case.**

1

Press the [CYLINDER RELEASE] key.

Make sure that the print drum (cylinder) release lamp is turned on.

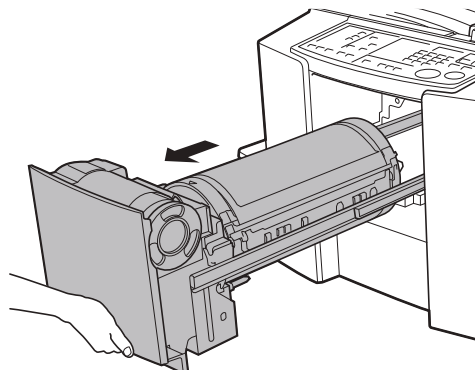


- ▶ **If you forcibly pull out the print drum (cylinder) when its release lamp is turned off, the print drum (cylinder) may be damaged.**

2

Pull out the print drum (cylinder).

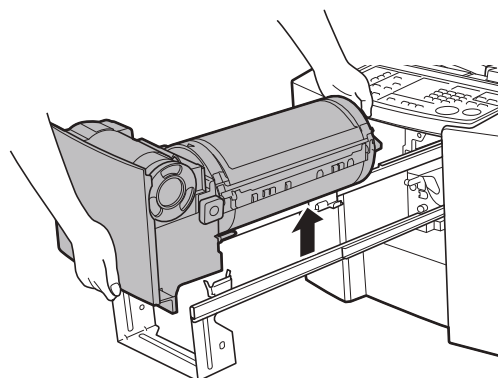
Grasp the print drum (cylinder) handle and pull out the print drum (cylinder) until it stops.



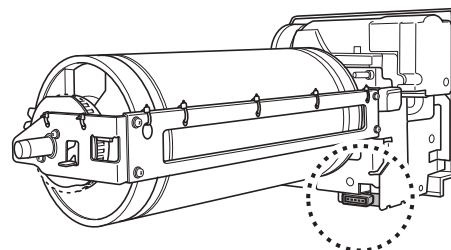
3

Remove the print drum (cylinder).

Lift the print drum (cylinder) with both hands to remove it from the guide.

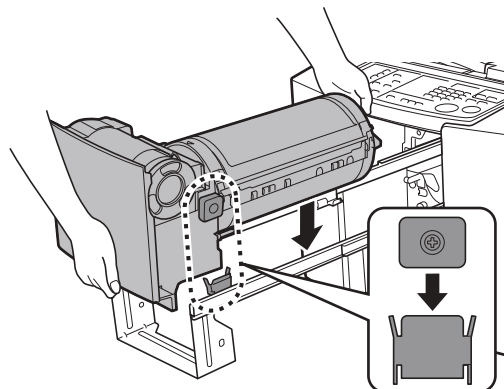


- ▶ **Do not touch the connector on the print drum (cylinder). Doing so may result in malfunction of the print drum (cylinder) because of static electricity or other factors.**



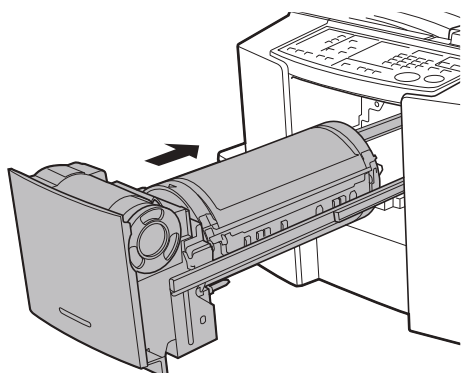
4 Install the print drum (cylinder).

Align the protrusion on the print drum (cylinder) with the socket on the guide and position the print drum (cylinder) horizontal relative to the guide.



5 Return the print drum (cylinder) to the original position.

Insert the print drum (cylinder) until it stops.



When the [i] indicator blinks and [H] is displayed in the numeric display

In order to maintain the optimum printing conditions, this machine obtains information from the consumables. If the information cannot be obtained, a code that starts with [H] is displayed in the numeric display. Enter an appropriate value.



- ▶ We assume no responsibility or liability for cases in which you use any consumables other than the consumables recommended by RISO. We are also unable to provide appropriate values for setting. If appropriate values for setting are unknown, we recommend that you adjust by changing values from [1] and on, while checking the print results at the same time.
- ▶ If the following operations are performed, the values entered will be erased. In this case, it is necessary to re-enter those values.
 - The power switch is turned off and then on again.
 - The [START] key is pressed while this machine is in sleep mode.

■ Ink Information Input

Set the items according to the following table.

Code	Description of setting	Value
H1	Ink Color Setting Enter [1].	1 (Black)
HE	Ink Use By date setting (month) Enter the month during which the warning [F51] (71) will be displayed. Pressing the [START] key goes to the next step.	01 to 12 (Enter two digits of month)
HY	Ink Use By date setting (year) Enter the year during which the warning [F51] (71) will be displayed. Pressing the [START] key completes the entry of the ink information.	01 to 99 (Enter last two digits of year)







■ Master Information Input

Set the items according to the following table.

No.	Description of setting	Value
H4	Master-making Density Setting Enter the setting value to obtain the appropriate master making density according to the master. Pressing the [START] key goes to the next step.	1 (Light) to 10 (Dark)
HE	Master Use By date setting (month) Enter the month during which the warning [F56] (71) will be displayed. Pressing the [START] key goes to the next step.	01 to 12 (Enter two digits of month)
HY	Master Use By date setting (year) Enter the year during which the warning [F56] (71) will be displayed. Pressing the [START] key completes the entry of the master information.	01 to 99 (Enter last two digits of year)

When the [i] indicator goes off and an error code is displayed in the numeric display

Refer to the following pages and take action according to the code.
If the code is not shown, press the [*] key.

Code	Reference page
C01	 69
C02	 69
D04	 69
D17	 70
Other D error	 69 to  70

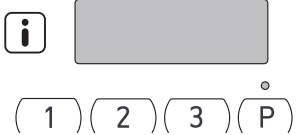
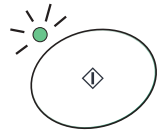
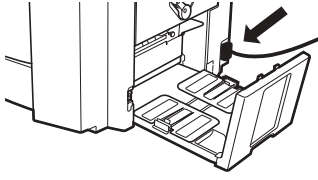
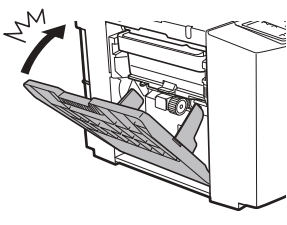
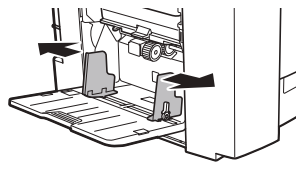
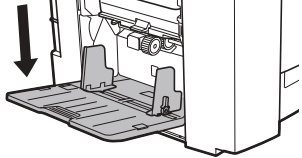
Troubleshooting

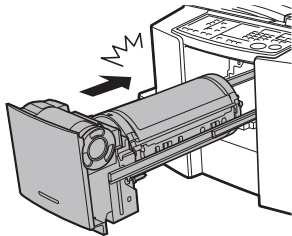
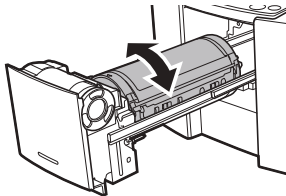
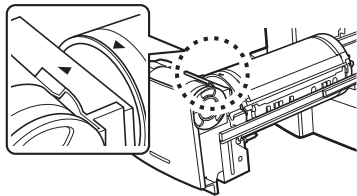
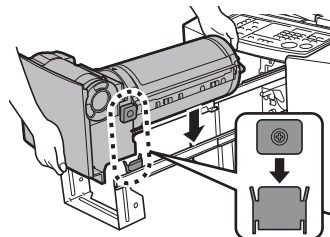
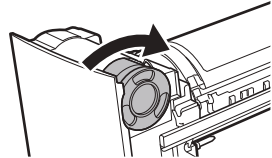
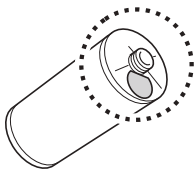
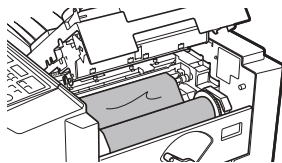
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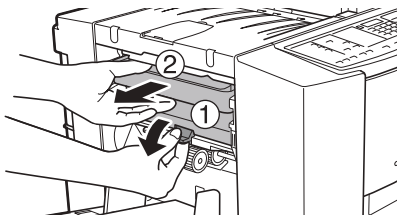
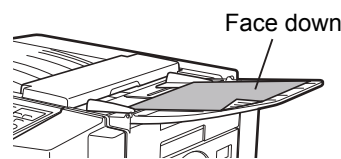
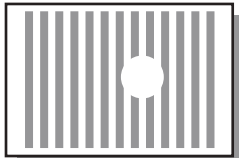
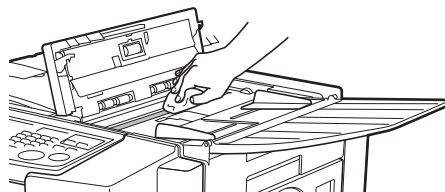
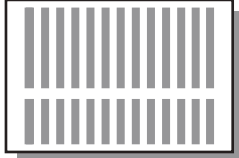
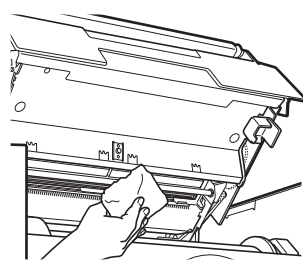


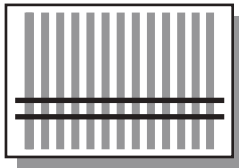
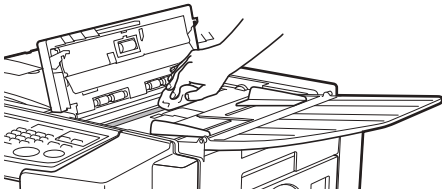
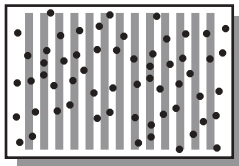
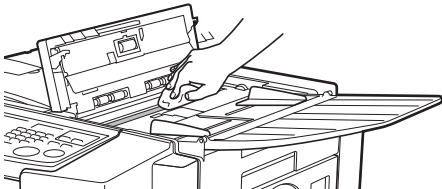
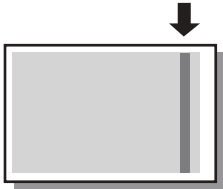
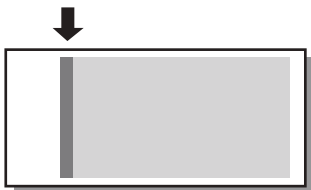
Caution

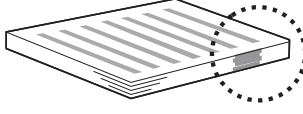
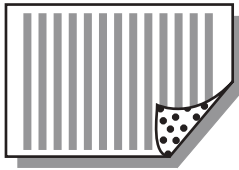
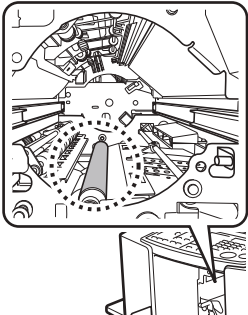
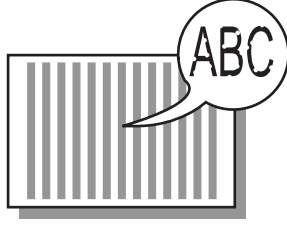
Do not perform any procedures (adjustment, repair, etc.) that are not described in this guide. When you want to adjust or repair, consult your dealer or authorized service representative.

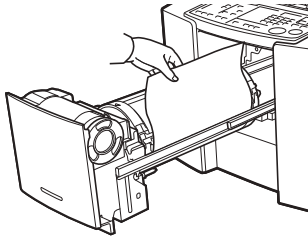
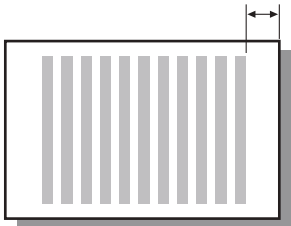
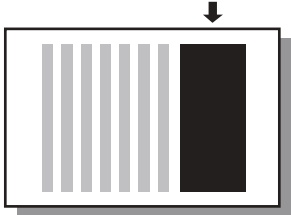
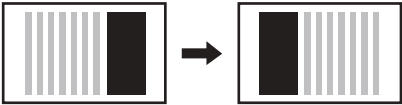
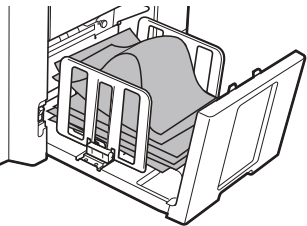
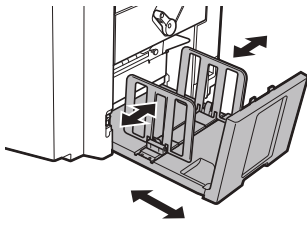
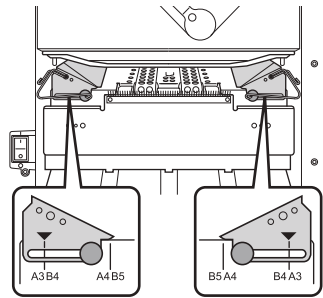
Problem	Point to check	Action
<p>Nothing is displayed on the numeric display even though the power is turned on.</p> 	<p>Check if the [START] key lamp is lit in green.</p> 	<p>This machine is in sleep mode. Press the [START] key to enable operations of this machine.</p>
	<p>Check if any error is occurring.</p>	<p>Press [*] key to show the hidden code on the numeric display. (64 “Check & Error Display”)</p>
<p>This machine does not start up when the power is turned on.</p>	<p>Check if the power is connected.</p> 	<ul style="list-style-type: none"> • Check the power cord for proper connection to both this machine and the electrical outlet. • Check if the commercial power breaker has tripped.
<p>The paper feed tray cannot be closed.</p> 	<p>Check if the feed-tray paper guides are fully widened.</p> 	<p>Turn on the power and lower the paper feed tray to the bottom. Then, raise the lock handles for the feed-tray paper guides, widen the feed-tray paper guides up to the limit, and close the paper feed tray. (22 “Setting up the paper feed tray and the paper”)</p>
	<p>Check if the power was turned off before the paper feed tray was lowered to the bottom.</p> 	

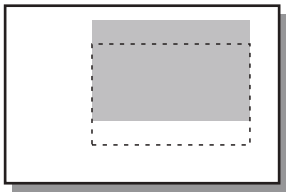
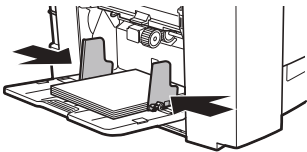
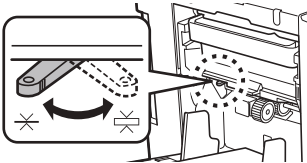
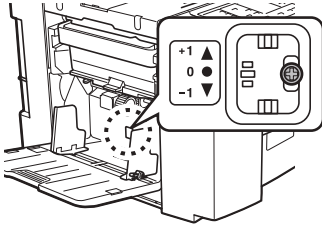

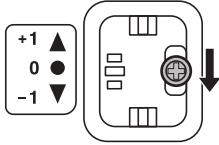
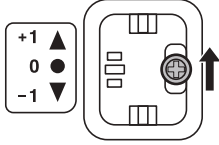
Problem	Point to check	Action
<p>The print drum (cylinder) cannot be placed into position.</p> 	<p>Check if the print drum (cylinder) is rotated to the correct stop position.</p> 	<p>If the print drum (cylinder) was manually rotated, be sure to return it so that the ▼ and ▲ marks align after the procedure is complete.</p> 
	<p>Check if the print drum (cylinder) is set correctly onto the rail.</p>	<p>Set the print drum (cylinder) correctly on the rail. (☞ 72 “Removing the print drum (cylinder)”)</p> 
<p>The [A] INK CARTRIDGE lamp remains lighting even though an ink cartridge is set in place.</p>	<p>Check if the ink cartridge is set in place correctly.</p>	<p>After inserting the ink cartridge, turn it clockwise to lock it. (☞ 54 “Replacing the Ink Cartridge”)</p> 
	<p>Check if the label at the edge of the ink cartridge is scratched or peeled off.</p> 	<p>You cannot use an ink cartridge if its label is scratched or peeled off. Set a new ink cartridge in place. (☞ 54 “Replacing the Ink Cartridge”)</p>
<p>The [M] MASTER ROLL lamp remains lighting even though a master roll is set in place.</p>	<p>Check if the master roll is set in place correctly.</p> 	<p>Set the master roll so that the side of the master core with the [I] mark is located on the left. (☞ 52 “Setting the Master Roll”)</p>
	<p>Check if the [I] section inside the master core is bent or cut.</p>	<p>You cannot use the master roll if its [I] section is bent or cut. Set a new master roll in place. (☞ 52 “Setting the Master Roll”)</p>

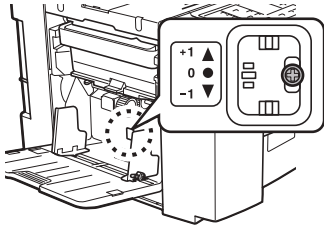
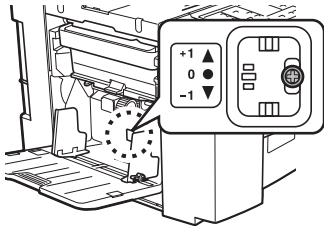
Problem	Point to check	Action
The master disposal box cannot be removed.	Check if you held down the master disposal box release lever.	Hold down the master disposal box release lever (①) while pulling out the box. (56 “Emptying the Master Disposal Box”) 
There is no image on copies.	Check if the original is placed so that it faces up.	Place the original so that it faces down. (25 “Printing of Paper Originals”) 
A portion of the image is missing on printed papers. 	Check if the scanner glass of the document feeder is stained.	Wipe the scanner glass with a soft cloth, etc. (61 “Document feeder”) 
	Check if any foreign objects are adhered to the master.	Pull out the print drum (cylinder) and check if any foreign object adheres to the master. If there is a foreign object, remove it. If a foreign object exists between the master and the print drum (cylinder), remove the master, and eliminate the foreign object. Then, set the print drum (cylinder) in place and perform the master making process again.
Blank lines are found on printed papers. 	Check if the thermal print head of the master making unit or the scanner glass of the document feeder is stained.	Wipe the thermal print head or scanner glass with a soft cloth, etc. (60 “Thermal print head”) 

Problem	Point to check	Action
<p>Lines are found on printed papers.</p> 	<p>Check if the scanner glass of the document feeder is stained.</p>	<p>Wipe the scanner glass with a soft cloth, etc. (61 “Document feeder”)</p> 
<p>The overall background of the printed papers is stained.</p> 	<p>Check if colored paper, such as newspaper, is used as the original.</p>	<p>Lighten the contrast in [SCANNING LEVEL] (31) and perform master making again.</p>
<p>Dirt is found on printed copies.</p>	<p>Check if the scanner glass of the document feeder is stained.</p>	<p>Wipe the scanner glass with a soft cloth, etc. (61 “Document feeder”)</p> 
<p>Characters and images in the area approximately 10 mm (13/32 inches) from the top of copies are stained with ink.</p> 	<p>Check if the margin at the top of the printed paper is enough.</p>	<p>Lower the print position to provide a wider top margin or reverse the top and bottom of the original. (13 “Printing area”)</p>
<p>The trailing edge of printed copies are stained with ink.</p> 	<p>Check if a size of paper longer than 410 mm (16 5/32 inches) was placed on the paper feed tray during the master-making process.</p>	<p>Reduce the size of the original and perform the master-making operation again. (13 “Printing area”)</p>

Problem	Point to check	Action
<p>The edges of printed papers are smudged with ink.</p> 	<p>Check if a corner of a thick paper, such as a postcard, scratches the master when it is being printed.</p>	<p>Perform master making again. Use papers that are suitable for this machine. (☞ 12 “Printing papers”)</p>
	<p>Check if a considerable time elapsed for the master roll that was used after the previous master making.</p>	<p>Perform master making again.</p>
<p>The back of the printed paper is smudged with ink.</p> 		<p>Remove the print drum (cylinder), and then wipe the pressure roller with a soft cloth, etc. (☞ 61 “Pressure roller”) If the print position deviates from the paper, this may cause the pressure roller to be stained with ink. Adjust the print position within the size of the paper.</p>
	<p>Check if a paper that does not efficiently absorb ink is used.</p>	<p>As the next paper is fed before the ink dries, ink adheres to the back of papers. Take the following measures.</p> <ul style="list-style-type: none"> • Use papers that efficiently absorb ink. • Reduce the print speed. [SPEED] (☞ 36) • Decrease the ink density. [SCANNING LEVEL] (☞ 31)
<p>Printed images are faint. Printed text is blurred.</p> 	<p>Check if printing was performed after the print drum (cylinder) was not used for an extended period of time.</p>	<p>If the print drum (cylinder) is not used for an extended period of time, ink on the surface of the print drum (cylinder) may dry. Printing in such a state may result in faint printing for the first few papers just after the printing has started. Press the [PROOF] key and print several papers before starting actual printing. By executing [Idling] (☞ 47), high print quality may be instantly achieved from the beginning of printing. This can reduce paper waste.</p>
	<p>Check if the original itself is faint.</p>	<p>Darken the contrast in [SCANNING LEVEL] (☞ 31) and make a master again. For originals written with a pencil, set [PENCIL] (☞ 31).</p>
	<p>Check if the temperature is low (below 15°C [59°F]) in the place where this machine is installed or ink cartridges are stored.</p>	<p>Use this machine in a location where the temperature is 15°C (59°F) or higher. For ink cartridges that have been stored in a location at low temperature, keep them in a location at a temperature of 15°C (59°F) or higher before using them. (☞ 7 “Installation location”)</p>

Problem	Point to check	Action
Papers are loaded on the print drum (cylinder). 	Check if the margin at the top of the printed paper is enough. 	The margin at the top of the printed paper (leading edge in the paper output direction) must be at least 5 mm (3/16 inches). Lower the horizontal print position, and then print. (☞ 37 “Adjusting the Print Position [PRINT POSITION]”) If it is not possible to lower the print position, reduce the size of the original to allow enough margin and perform master making again. (☞ 32 “Enlarging or Reducing the Size of the Original [Size]”)
	Check if the original has a wide solid portion at its top. 	If an original has a wide solid portion at its top, the original is more likely to stick to the print drum (cylinder). Set the original upside down and perform master making again. 
	Check if appropriate papers are used.	Use papers that are suitable for this machine. (☞ 11 “Size and weight”)
	Check if the [Paper Ejection Adjustment] setting is appropriate for the papers that are used.	Select a higher level setting in [Paper Ejection Adjustment] (☞ 48) under [Custom Setting Mode].
Curled printed papers are output.	Check if the paper grain (flow of the grain) is aligned with the paper feeding direction.	Place the paper so that its grain is aligned with the paper feeding direction. (☞ 12 “To prevent paper jams and paper feeding failures”)
The printed papers that have been output are not neatly piled up in the paper receiving tray. 	Check if the positions of the paper receiving tray and the receiving-tray paper guides are appropriate. 	Fit the paper receiving tray and the receiving-tray paper guides to the paper size. For thick papers, slightly widen the receiving-tray paper guides. If you have adjusted the vertical position on the paper feed tray, shift the receiving tray paper guides in the same direction. (☞ 23 “Setting up the paper receiving tray”)
	Check if the positions of the paper jumping wings are appropriate. 	Set the paper jumping wings (☞ 24) to the position that is relevant to the paper type or size.

Problem	Point to check	Action
<p>The vertical print positions have been shifted.</p> 	<p>Check if the feed-tray paper guides are set to the standard position.</p> 	<p>Lower the paper feed tray, and then adjust the feed-tray paper guides. After adjustment, check the print position on the proof copy. (37 “Adjusting the Print Position [PRINT POSITION]”)</p>
<p>Papers are not smoothly fed from the paper feed tray. (Papers are skipped, or multiple sheets are fed)</p>	<p>Check if appropriate papers are used.</p>	<p>Use papers that are suitable for this machine. (12 “Printing papers”)</p>
	<p>Check if the position of the paper feed pressure adjustment lever is appropriate.</p> 	<p>When using thick or slippery papers, switch the paper feed pressure adjustment lever to the position of [⌘ (thick paper)]. (22 “Setting up the paper feed tray and the paper”)</p>
	<p>Check if the paper stripping pressure is inappropriate.</p> 	<p>Adjust the paper stripping pressure using the stripper pressure adjustment knob if necessary.</p> <p> ► Before the adjustment, be sure to remove any papers from the paper feed tray, and then confirm that the paper feed tray has lowered to the bottom.</p> <p>■ When papers are skipped Set the stripper pressure adjustment knob to the lower position.</p> 
		<p>■ When multiple papers are fed Set the stripper pressure adjustment knob to the higher position.</p> 

Problem	Point to check	Action
Paper frequently jams in the paper feed section even when the paper feed pressure adjustment lever is set to the position of [⌘ (thick paper)].	Check if the paper stripping pressure is appropriate. 	Refer to the procedure provided for the “When papers are skipped” section of “Papers are not smoothly fed from the paper feed tray. (Papers are skipped, or multiple sheets are fed)”
The back of printed cards is peeling or the leading edge of printed cards is wrinkled.	Check if the paper stripping pressure is appropriate. 	Set the stripper pressure adjustment knob to adjust the paper stripping pressure. (☞ 22 “Setting up the paper feed tray and the paper”)
The [JAM] lamp remains lighting even though there is no paper jam.	The paper might have already been output after it was lifted onto the drum.	The margin at the top of the printed paper (leading edge in the paper output direction) must be at least 5 mm (3/16 inches). Lower the horizontal print position, and then print. If it is not possible to lower the print position, reduce the size of the original to allow enough margin and perform master making again. (☞ 32 “Enlarging or Reducing the Size of the Original [Size]”)
	Check if this machine is exposed to direct sunlight.	The sensor may malfunction if this machine is exposed to direct sunlight. Shield the light using curtains, etc., in order to protect this machine from direct sunlight.
Original data with multiple pages have been sent from a computer. Even though multiple copies are set for printing, this machine repeats master making one page at a time.	Check if the [Collate] option is selected in the printing dialog box on a computer.	Temporarily delete the original data that this machine has received. To delete the original data, press the [INTERFACE] key (☞ 26). Deselect [Collate] in the printing dialog box on the computer, and then resend the original data to this machine. (☞ 26 “Printing from Computer”)
Even though the computer has sent the original data, this machine cannot receive it.	Check if the [INTERFACE] lamp is off on the operation panel.	Press the [INTERFACE] key (☞ 26) to light up the lamp.
The [START] key is blinking.	Check if the received original data is waiting for output.	Press the [START] key to print them.
“ - - - - ” appears on the numeric display and the machine does not start.	The power was turned off when the machine was in operation.	Press the [START] key.



Chapter 10

Appendix

Specifications

Model	CV1200
Master Making Methods	High-speed digital master-making
Master Making-Time ¹	Approx. 37 seconds (B4 paper, short edge feed)
Printing Method	Fully automatic printing
Scanning Resolution	300 dpi × 300 dpi
Printing Resolution	300 dpi × 300 dpi
Original Type	Sheet
Original Paper Weight	50 g/m ² to 107 g/m ² (13-lb bond to 29-lb bond) (normal paper)
Original Size	90 mm × 140 mm to 310 mm × 435 mm (3 17/32 inches × 5 1/2 inches to 12 7/32 inches × 17 1/8 inches)
Maximum Scanning Area	297 mm × 435 mm (11 11/16 inches × 17 1/8 inches)
Print Paper Weight	35 g/m ² to 128 g/m ² (9-lb bond to 34-lb bond)
Print Paper Size	100 mm × 148 mm to 297 mm × 420 mm (3 15/16 inches × 5 13/16 inches to 11 11/16 inches × 16 17/32 inches)
Maximum Printing Area	In units of mm: 251 mm × 357 mm (9 7/8 inches × 14 1/16 inches) In units of inches (when printing on legal size paper): 210 mm × 349 mm (8 9/32 inches × 13 3/4 inches)
Paper Feed Tray Stacking Capacity	1000 sheets ² (stacking height of 110 mm [4 11/32 inches] or lower)
Paper Receiving Tray Stacking Capacity	800 sheets ² (stacking height of 90 mm [3 17/32 inches] or lower)
Print Speed	3 levels: 60, 80, and 100 sheets per minute
Print Position Adjustment	Horizontal: ±10 mm (±13/32 inches) Vertical: ±10 mm (±13/32 inches) ³
Image Processing Mode	Line, Photo, Duo, Pencil
Print Reproduction Ratio	In units of mm: 100% reproduction ratio, Enlargement (141%, 122%, 116%), Reduction (94%, 87%, 82%, 71%) In units of inches: 100% reproduction ratio, Enlargement (154%, 129%, 121%), Reduction (94%, 78%, 65%, 61%)
User Interface	LED panel

Functions	Original Scanning Mode, Scanning Level, Enlargement/Reproduction, 2-Up, Speed, Print Position, Program, Idling, Confidential, Meter Display, Proof, Direct Printing, Auto Sleep Setting, Auto Power-OFF Setting, RISO iQuality System
Ink Supply	Full automatic (800 ml/cartridge)
Master Supply / Disposal	Full automatic (approx. 200 sheets per roll)
Master Disposal Capacity	Approx. 30 sheets
Operating Noise	Max. 69 dB (A) (when printing 100 sheets per minute in the operator position)
Power Source	AC 100-120V / 220-240V 50-60 Hz <2.0A / 1.0A>
Power Consumption	Max. 160W (Ready: 15 W or lower, Sleep: 10 W or lower, Power-OFF: 0.5 W or lower)
Dimensions (W×D×H)	When in use: 1280 mm × 655 mm × 515 mm (50 13/32 inches × 25 25/32 inches × 20 9/32 inches) When in storage: 665 mm × 655 mm × 505 mm (26 3/16 inches × 25 25/32 inches × 19 7/8 inches)
Required Space (W×D×H)	1280 mm × 1255 mm × 845 mm (50 13/32 inches × 49 13/32 inches × 33 9/32 inches)
Weight	Approx. 64 kg (141 lb) ⁴
Safety Information	Indoor type, pollution degree 2 ⁵ , at altitudes of 2000 m or lower

¹ Measurement value when set to 100% reproduction ratio.

² When using the following weight of paper; 64 g/m² to 80 g/m² (17-lb bond to 21-lb bond)

³ If the width of the paper surpasses 277 mm (10 29/32 inches), the vertical print position adjustment width narrows depending on the width of the paper.

⁴ The weight does not include the ink and master roll.

⁵ The pollution degree of the usage environment due to dirt and dust in the air. Degree "2" corresponds to a general indoor environment.

Notes

- The specifications and type of the product are subject to change without prior notice.
- Please note that due to improvements and changes to this machine, some images and explanations in this guide may not correspond to your machine.

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Notice for Republic of India

RISO complies with the e-waste (Management and Handling) Rules “e-waste Rules”.

What is the “e-waste Rules”?

The purpose of the “e-waste Rule” is to reduce waste and ensure Electrical Equipment is recycled at the end of life.

RISO declares our products comply with the “India E-waste Rule” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers at or over a concentration of 0.1% by weight or at or over 0.01% by weight for cadmium, except for the exemptions set in Schedule 2 of the Rule.

You can't dispose of our used products as household waste. Used products contain many hazardous substances which may have a serious, detrimental effect on the environment and/or human health.

What does the crossed out wheeled bin symbol mean?

The crossed wheeled bin symbol indicates this product must be disposed of separately to household waste.



“e-waste Rules” shall apply to products including their components, consumables, parts and spares needed to function properly.

Who should I contact if I want more information about the “e-waste Rules”?

You should contact Riso India Pvt.Ltd.

Email: product-recycling@risoindia.com ; Tel : 0120-4721300

Notice for European Union Member States

RISO, the environment and the Waste Electrical and Electronic Equipment Directive "WEEE Directive"

What is the WEEE Directive?

The purpose of the WEEE Directive is to reduce waste and ensure Electrical and Electronic Equipment is recycled at the end of its useful life.



What does the crossed out wheeled bin symbol mean?

The crossed out wheeled bin symbol indicates this product must be disposed of separately to normal waste.

Please contact your RISO service agent for information about disposal.

What does the solid bar symbol mean?

The solid bar under the crossed out wheeled bin indicates this product was put on the market after the 13th August 2005.

Who should I contact if I want more information about the WEEE Directive?

You should contact your local RISO service agent for more information.



Please contact the following for supplies and service: