

RN 2530
USER'S GUIDE

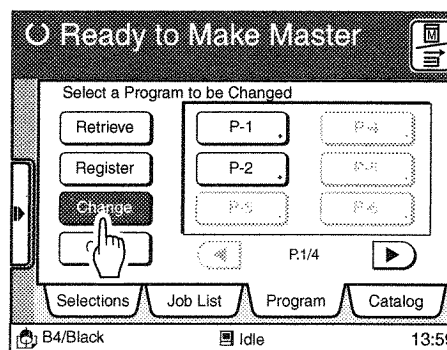


Renaming/Changing a Saved Program Setting

- 1 Display the (Program) tab on the sub-panel window and then touch the (Change) button.

A message stating [Select a Program to be Changed] appears.

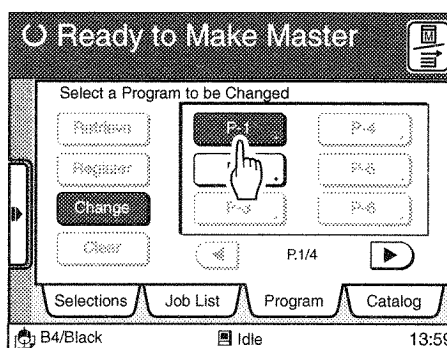
- Only the occupied Program buttons can be selected.
- If the required Program button is not displayed on the window, scroll through the list by touching the [◀] or [▶] button.



- 2 Touch the Program button for the settings to be changed.

The [Single Page Mode] or [Multi-Page Mode] window appears.

- NOTE** Proceed to the step 4 if program settings does not need to be changed.



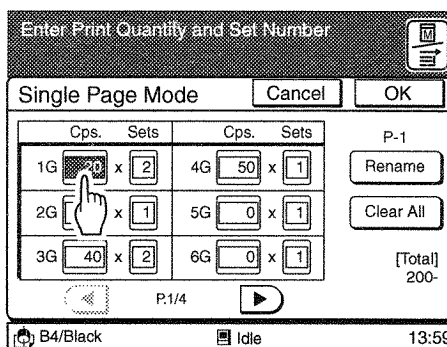
- 3 Touch the (Cps.) or (Sets) field directly for the values to be changed.

Press the [C] key to clear the value, and then specify the required number.

Repeat this procedure for all [Cps.] ([Sets]) values that require amendment.

Touch the [Clear All] button to clear all [Cps.] ([Sets]) values back to [0].

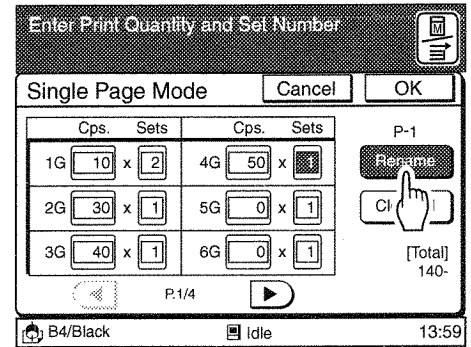
- NOTE**
- Proceed to the step 7 if the program name does not require amendment.
 - You can shift the cursor by pressing the [✳] key.



Automatic Sorting into Groups

4 Touch the (Rename) button.

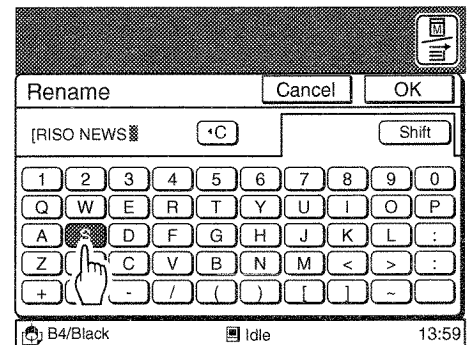
The [Rename] window appears.



5 Enter a new name for the selected print job setting.

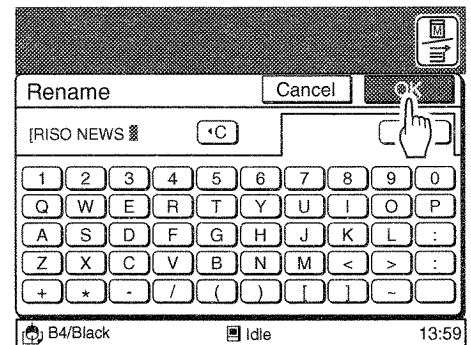
The [Rename] window can be switched between the uppercase window and the lowercase window by touching the [Shift] button.

- Up to ten spaces can be entered.
- Numerals can also be entered with the Print Quantity keys.
- Touch the [◀C] button to erase an entered letter (one letter will be erased each time this button is touched).
- The letters that exceed the maximum spacing will not be entered.



6 Touch the (OK) button.

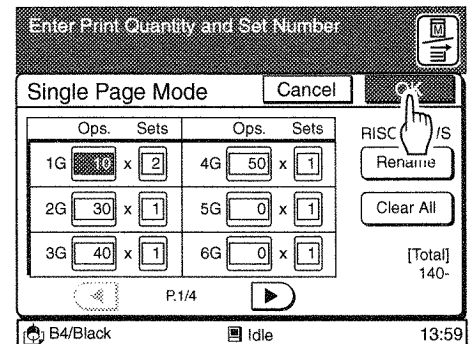
The window returns to the [Single Page Mode] or the [Multi-Page Mode] window. The amended name will be displayed above the [Rename] button.



7 Touch the (OK) button.

The window returns to the [Program] tab.

Touch the [Cancel] button to return to the [Program] tab without any change.

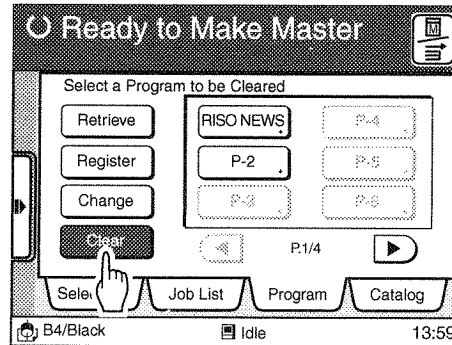


Erasing a Saved Program Setting

- 1 Display the (Program) tab on the sub-panel window and then touch the (Clear) button.

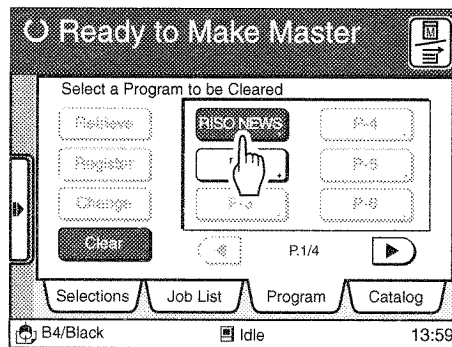
A message [Select a Program to be Cleared] appears.

- Only the occupied Program buttons can be selected.
- If the required Program button is not displayed on the tab, scroll through the list by touching the [◀] or [▶] button.



- 2 Touch the Program button to be erased.

The [Single Page Mode] or [Multi-Page Mode] window appears.

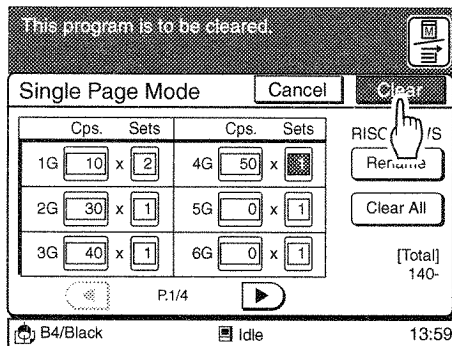


- 3 Touch the (Clear) button.

The program is erased and the window returns to the [Program] tab.

Touch the [Cancel] button to return to the [Program] tab without erasing the program.

NOTE The name of the program button will return to the default name.

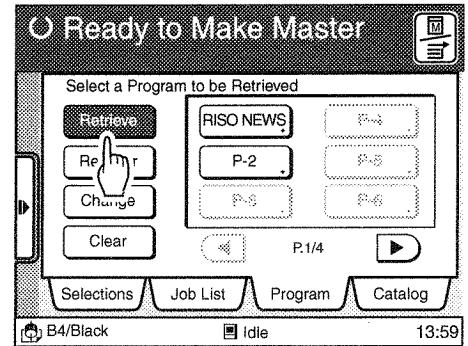


Recalling a Saved Program Setting

1 Display the (Program) tab on the sub-panel window and then touch the (Retrieve) button.

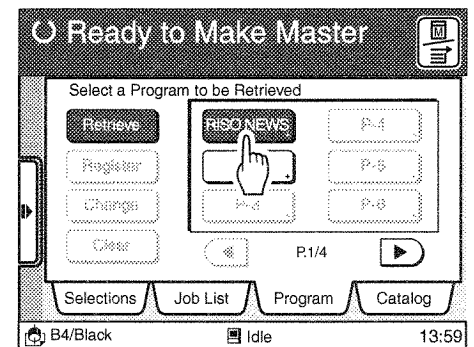
A message stating [Select a Program to be Retrieved] appears.

- Only the occupied Program buttons can be selected.
- If the required Program button is not displayed on the tab, scroll through the list by touching the [◀] or [▶] button.



2 Touch the Program button to be retrieved.

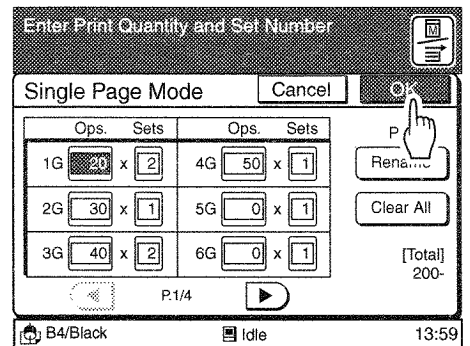
The [Single Page Mode] or [Multi-Page Mode] window appears. The [Cps.] and [Sets] parameters can be changed here. Any amendments made here, however, will not be saved in memory.



3 Touch the (OK) button.

The window returns to the [Program] tab. Set up the various print parameters if necessary before printing.

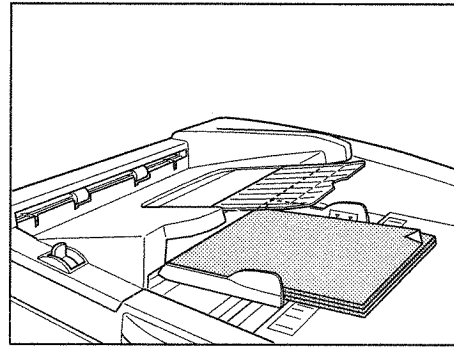
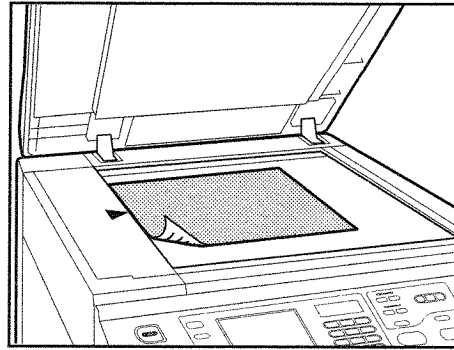
NOTE The saved print settings can also be retrieved.
 p. 116... Recalling a Saved Print Job Setting



4 Set an original face-down in place.

If placing originals on the Stage Glass in the Multiple-original Program, set the originals in position from the last page (printing will be performed from the last page to the first page).

NOTE If the optional ADF Unit is installed, all originals can be printed in sequence in the same program.



5 Specify other settings for selected originals.

You can specify all the features available in normal operation, such as enlargement/reduction and Multi-Up printing.

Important!

The Auto Process function will automatically be set at [ON] when the Multiple-original Program is activated. Set the Auto Process function to [OFF] or use the [Semi-Auto (Master)] feature (when the optional ADF unit has been installed) if it is necessary to check the print position or print quality with the test print.

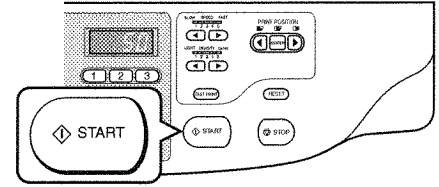
☞ **p.66...** Automatic Printing

☞ **p.99...** Changing Auto Process Timing on the Printer

Automatic Sorting into Groups

6 Press the Start key.

A test print is produced.
If the Auto Process feature is not activated, press the Start key again. Prints are produced according to the specified program.



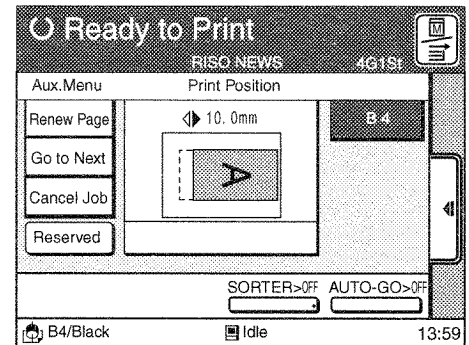
Important!

When using the Stage Glass in the Multiple-original Program, the message [Place Another Original and Press Start key] appears after each original is duplicated. Place the next original and press the Start key.

- NOTE**
- To suspend the program printing, press the Stop key. To restart the operation, press the Start key.
 - Once all specified sets or groups have been printed when the ADF unit (optional) is in use, printing will be halted and the program printing mode is canceled even if originals remain in the Original Feed Tray. Printing will be halted when there is no original left in the ADF Unit despite the fact that the number of pages specified in the program have not been printed yet. In this event, set the following originals in place and then press the Start key.

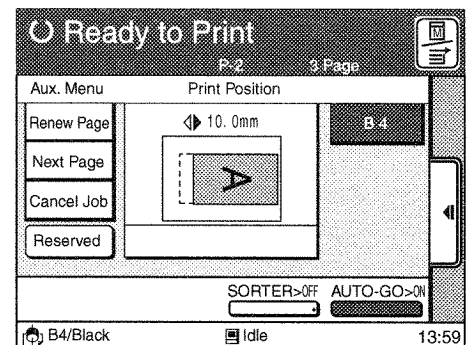
The following functions can be specified on the Main-panel window in the Single-original Program.

- [Go to Next]**
Skips the printing operation for the current set/group and proceeds to the next set/group.
- [Cancel Job]**
Cancels the current program printing operation.



The following functions can be specified on the Main-panel window in the Multiple-original Program.

- [Next Page]**
Suspends the current printing operation and proceeds to the master-making operation for the next original if any.
- [Cancel Job]**
Cancels the current program printing operation.



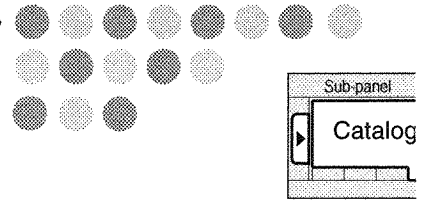
About the Job Separator (optional)

This is a useful optional device for program printing.

It automatically separates the print jobs by inserting tape strips after each specified set has been printed. You do not need to remove printing matter from the Paper Receiving Tray or insert marking tapes for each set.

NOTE Consult your dealer (or the authorized service representative) for further details on this optional device.

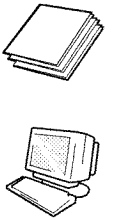
Registering Nonstandard Paper



It is necessary to register paper sizes that are not covered by the A4, B5, legal, letter, ledger and other standard sizes if you want to use such “custom paper” for printing.

- ☞ p.20... Preparing to Print
- ☞ p.91... Changing Printing Paper Information

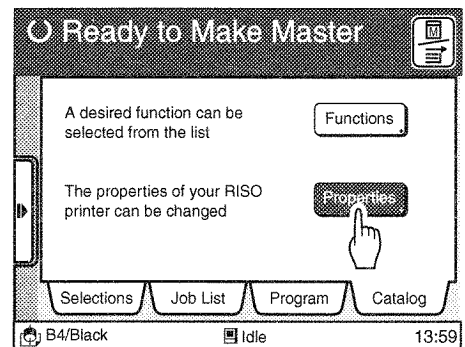
- NOTE**
- Up to six custom paper sizes can be registered.
 - You can change or delete the custom paper size, if necessary.
 - ☞ p.132... Changing Settings and Names of Custom Paper Sizes
 - ☞ p.136... Erasing Registered Custom Paper Sizes



Registering Custom Paper Sizes

- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Properties) button.

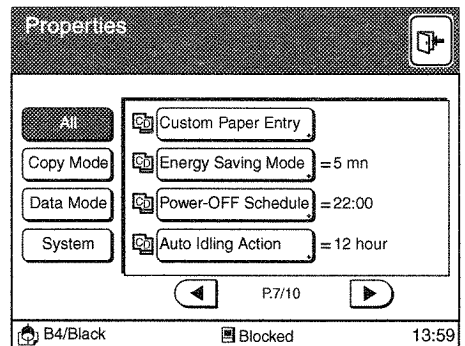
The [Properties] window appears.



- 2 Display the (Custom Paper Entry) button by touching the (◀) or (▶) button.

Refer to the section [Customizing the Initial Settings] for further details on the [Properties] window.

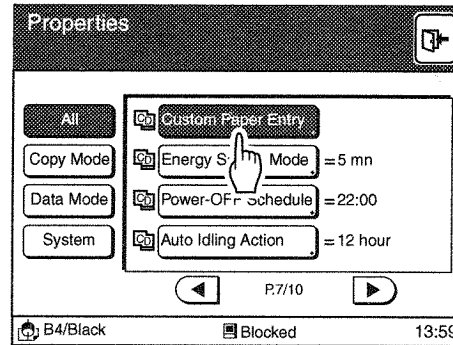
- ☞ p.138... Customizing the Initial Settings



Registering Nonstandard Paper

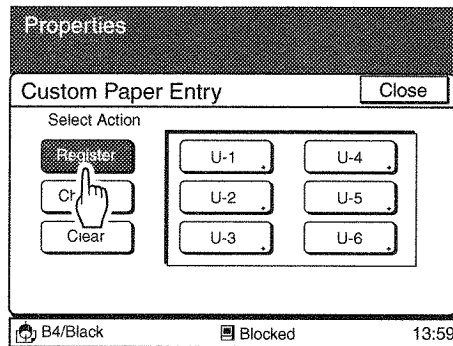
3 Touch the (Custom Paper Entry) button.

The main [Custom Paper Entry] window appears.



4 Touch the (Register) button.

A message [Select a Frame for Custom Paper Size Entry] appears.



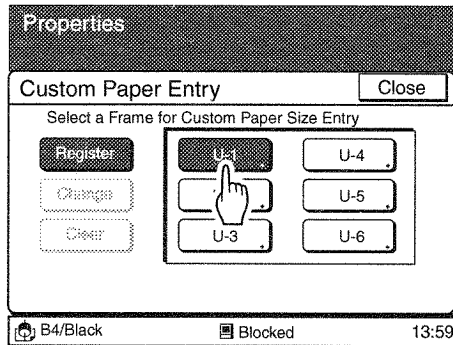
5 Touch a vacant Frame button.

Only buttons in which information has not been registered can be selected. (The occupied buttons will be shaded out.)

Important!

If there is no vacant Frame button remaining, delete the unwanted paper size to make room for the new one.

☞ p. 136... Erasing Registered Custom Paper Sizes

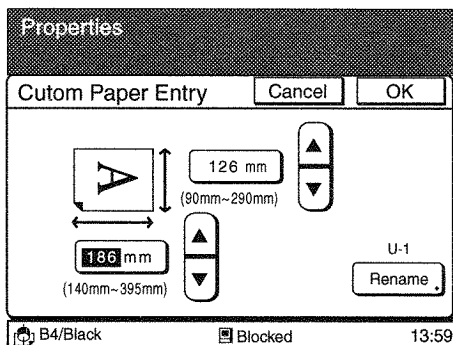


6 Specify the paper size.

Input the paper length and width with the [▲] [▼] buttons or the Print Quantity keys.

- To shift the cursor, press the [✳] key or touch the relevant field directly.
- Press the [C] key to return to the default setting.
- The ranges of the length and width are shown below the respective fields.
- The name for the current custom paper size is shown above the [Rename] button. You can name or rename the paper size.

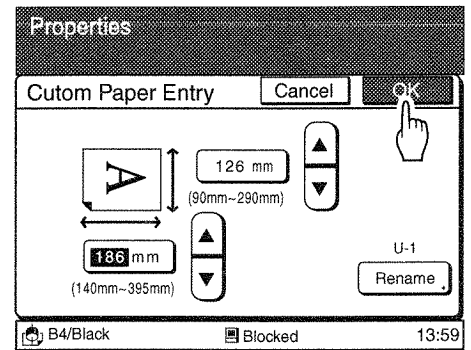
☞ p. 132... Changing Settings and Names of Custom Paper Sizes



Registering Nonstandard Paper

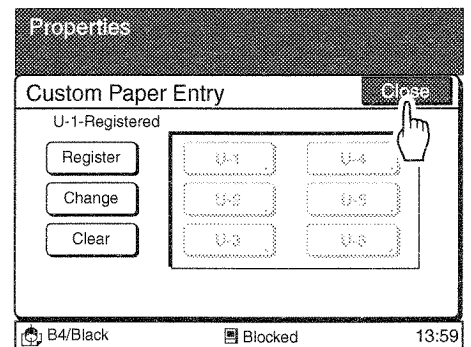
7 Touch the (OK) button.

The window returns to the main [Custom Paper Entry] window.
Touch the [Cancel] button to return to the main [Custom Paper Entry] window without any change.



8 Touch the (Close) button.

The window returns to the [Properties] window.

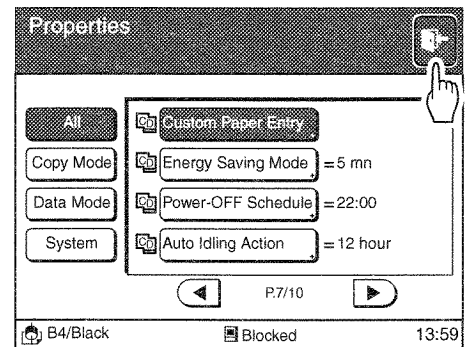


9 Touch the (Exit) button on the upper right corner of the window.

The registered custom paper sizes can be used when changing paper and when setting up the paper information.

☞ p.20... Preparing to Print

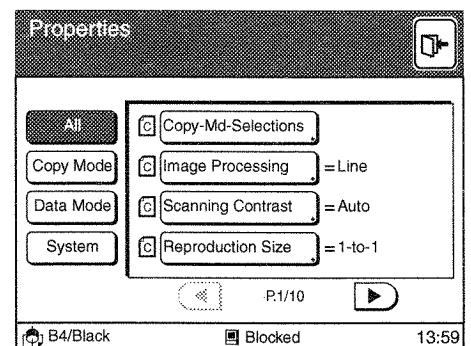
☞ p.91... Changing Printing Paper Information



Changing Settings and Names of Custom Paper Sizes

1 Display the (Properties) window.

To open the [Properties] window, refer to the step 1 of [Registering Custom Paper Sizes] on page 130.



Registering Nonstandard Paper

- 2 Display the (Custom Paper Entry) button by touching the (◀) or (▶) button.

Refer to the section [Customizing the Initial Settings] for further details on the [Properties] window.

☞ p.138... Customizing the Initial Settings

- 3 Touch the (Custom Paper Entry) button.

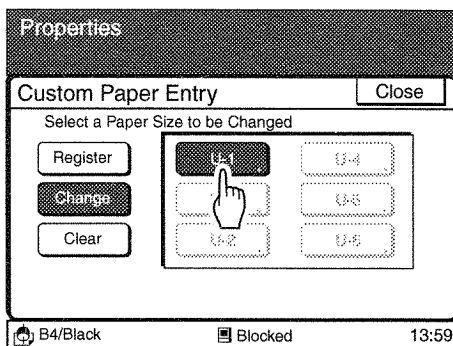
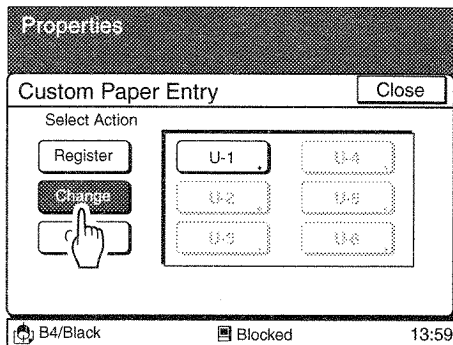
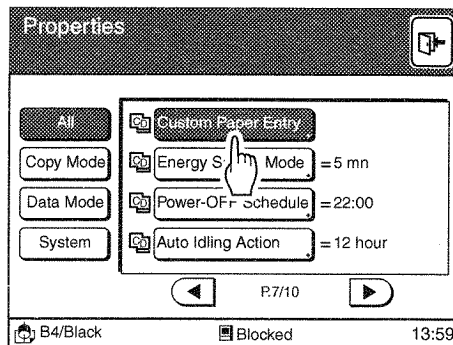
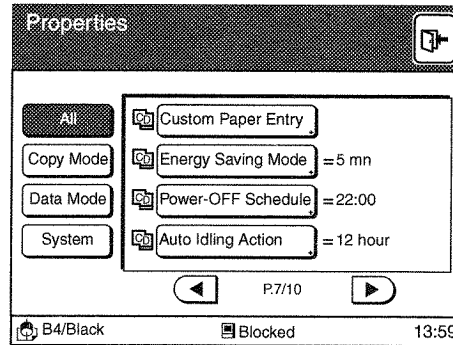
The main [Custom Paper Entry] window appears.

- 4 Touch the (Change) button.

A message [Select a Paper Size to be Changed] appears.

- 5 Touch the Paper Size Frame button to be modified.

Only buttons in which information has been registered can be selected.



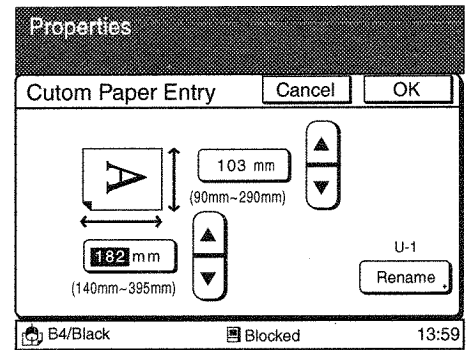
Registering Nonstandard Paper

6 Change the paper size.

Change the paper length and width with the [▲] [▼] buttons or the Print Quantity keys.

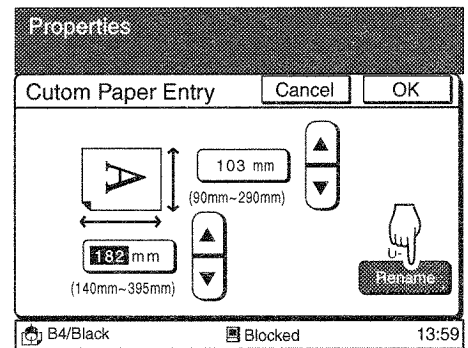
- To shift the cursor, press the [*] key or touch the relevant field directly.
- Press the [C] key to return to the default setting.
- The ranges of the length and width to be specified are shown below the respective fields.
- The name for the current paper size is shown above the [Rename] button.

- NOTE**
- Skip this step if the paper size does not require any change.
 - Proceed to step 11 if the name does not require any change.



7 Touch the (Rename) button.

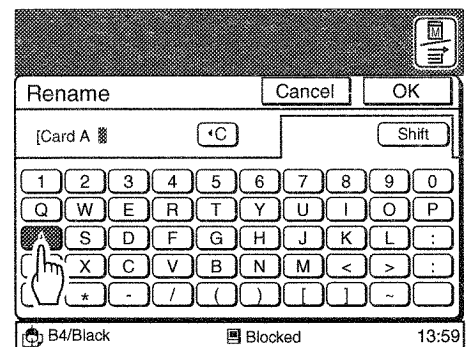
The [Rename] window appears.



8 Enter a new name for the selected paper size setting.

The [Rename] window can be switched between the uppercase window and the lowercase window by touching the [Shift] button.

- Up to ten spaces can be entered.
- Numerals can be entered with the Print Quantity keys.
- Touch the [◀C] button to erase an entered letter (one letter will be erased each time this button is touched).
- The letters that exceed the maximum spacing will not be entered.

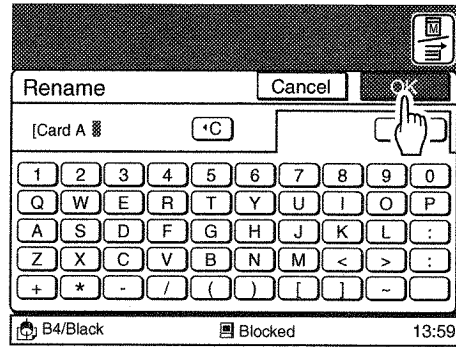


Registering Nonstandard Paper

9

Touch the (OK) button.

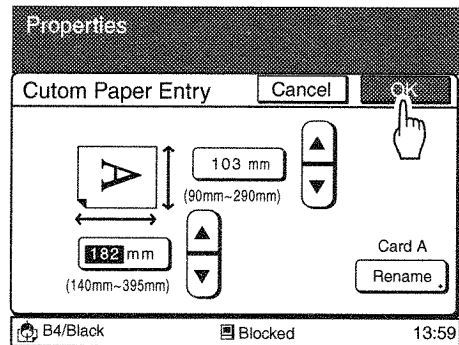
The window returns to the [Custom Paper Entry] window.
The name of the custom paper size now changes to the new one.



10

Touch the (OK) button.

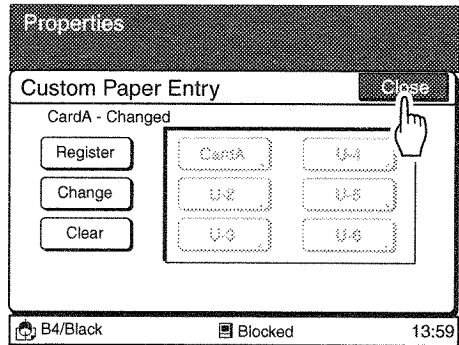
The window returns to the main [Custom Paper Entry] window.



11

Touch the (Close) button.

The window returns to the [Properties] window.



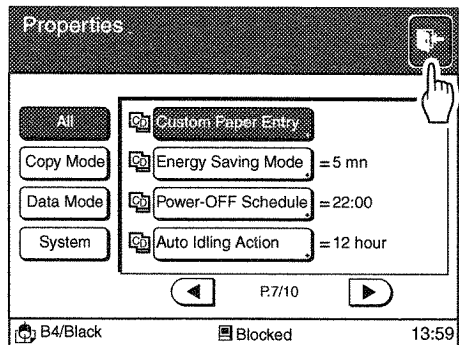
12

Touch the (Exit) button on the upper right corner of the window.

The registered custom paper can be used when changing paper and when setting up the paper information.

☛ p.20... Preparing to Print

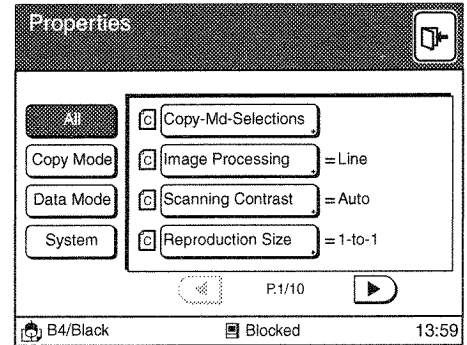
☛ p.91... Changing Printing Paper Information



Erasing Registered Custom Paper Sizes

1 Display the (Properties) window.

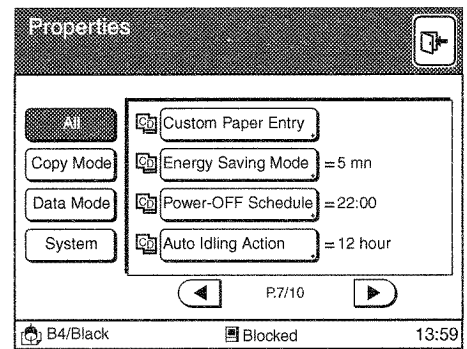
To open the [Properties] window, refer to the step 1 of [Registering Custom Paper Sizes] on page 130.



2 Display the (Custom Paper Entry) window by touching (<) or (>) button.

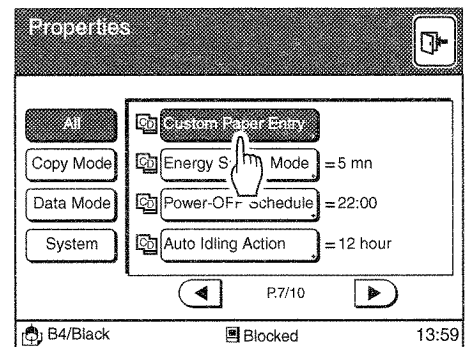
Refer to the section [Customizing the Initial-Settings] for further details on the [Properties] window.

☞ p.138... Customizing the Initial Settings



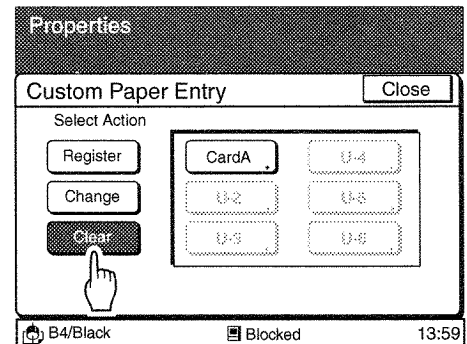
3 Touch the (Custom Paper Entry) button.

The main [Custom Paper Entry] window appears.



4 Touch the (Clear) button.

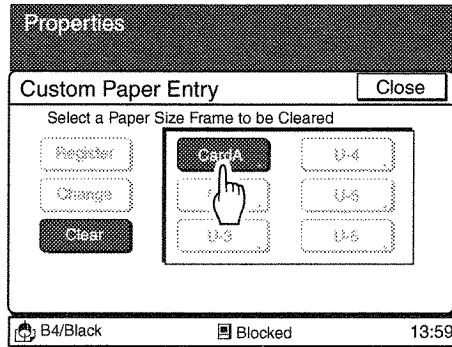
A message [Select a Paper Size Frame to be Cleared] appears.



Registering Nonstandard Paper

5 Touch the Paper Size Frame button to be erased.

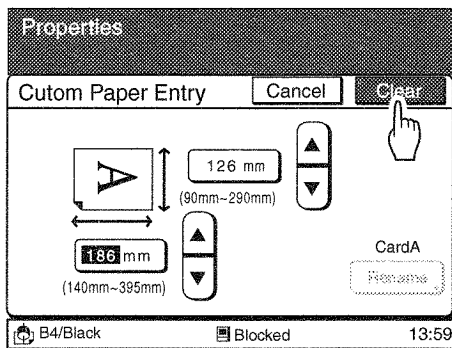
Only buttons in which information has been registered can be selected.



6 Make sure the contents and touch the (Clear) button.

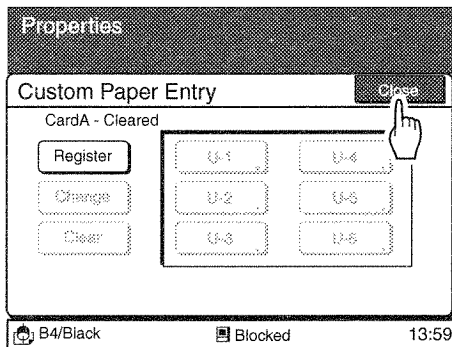
The registered paper size is erased and the window returns to the main [Custom Paper Entry] window.

NOTE The name will return to the default .

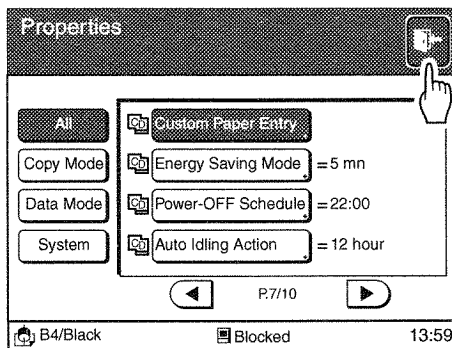


7 Touch the (Close) button.

The window returns to the [Properties] window.



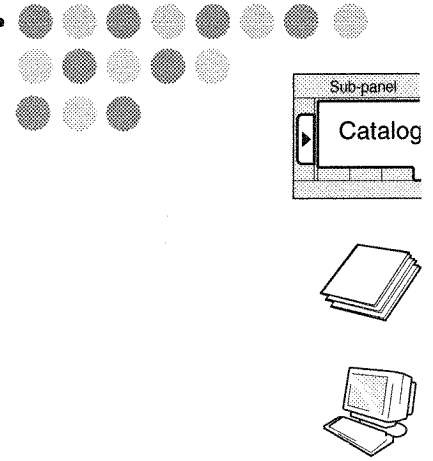
8 Touch the (Exit) button on the upper right corner of the window.



Customizing the Initial Settings

You can customize some of the initial settings to which the machine status will be returned when the power is turned on, or the Reset key is held down for more than one second.

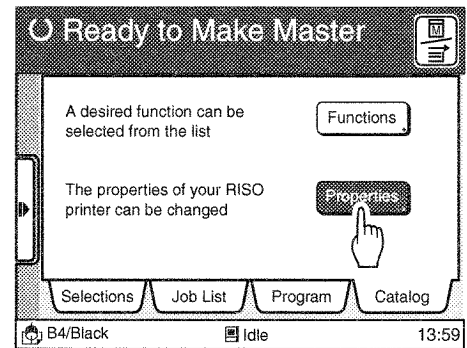
NOTE When you customize the initial settings, they remain valid until they are changed again.



Changing the Initial Settings

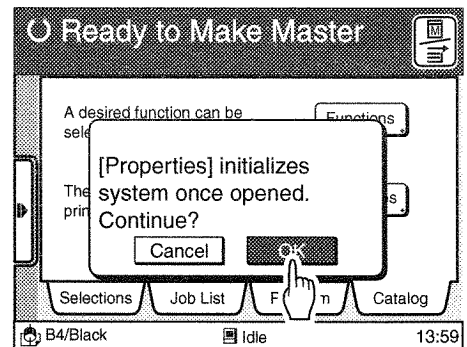
- 1 Display the (Catalog) tab, and then touch the (Properties) button.

The confirmation message box appears.



- 2 Touch the (OK) button.

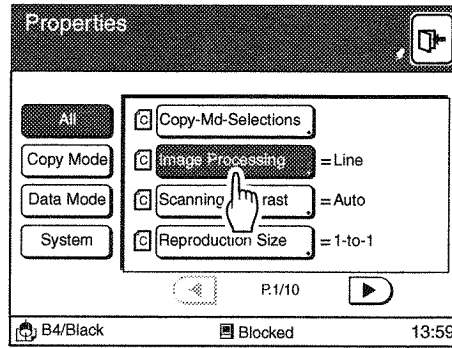
The [Properties] window appears. Touch the [Cancel] button to cancel the operation and return to the [Catalog] tab.



3 Select the function whose initial setting is to be changed.

The functions whose initial setting can be changed will be displayed on the [Properties] window.

- The current settings are displayed beside the Function Frame buttons (with the exception of certain items).
- If the required Function Frame button is not displayed on the window, touch the [◀] or [▶] button to scroll through the list.




<Function Selection buttons>


The Function Selection button selected in the Properties menu displays only the properties of the specified function. Four button types are available. The chart on the right shows those that may be selected.


☞ p.141... Configurable Items and Their Options





<Icons>

The icons displayed on the left-side of the Function Frame buttons indicate the category to which they are attributed.

 : Functions that can only be used in the Copy mode.

 : Functions that can only be used in the Data mode.

 : System-related functions (common for both the Copy mode and Data mode.)

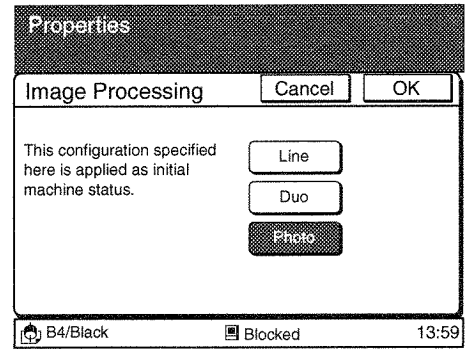
	Displays all function buttons.
	Displays the function buttons that can only be used in the Copy mode.
	Displays the function buttons that can only be used in the Data mode.
	Displays the function buttons for system-related functions (common to both the Copy mode and Data mode.)

Customizing the Initial Settings

4 Change the initial settings.

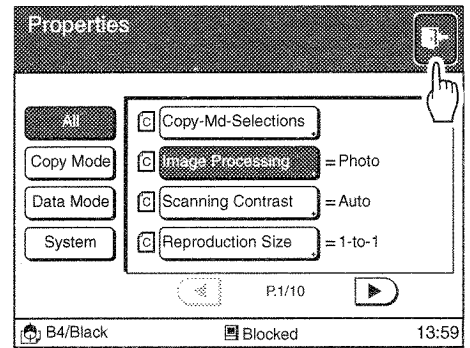
The setup method varies depending on the function.

- Touch the [◀] and [▶] buttons or directly touch the selection button displayed on each window.
- Touch the [OK] button after changing the settings for each item.
- Touch the [Cancel] button to cancel amendment and close the window.



5 Touch the (Exit) button on the upper right corner of the window.

The new initial settings are applied to the selected items.



Configurable Items and Their Options

The functions for which the initial settings can be changed are shown below.

The framed option is the default setting.

Some items will not be displayed depending on the printer model and the configuration of optional devices.

The “Category” in the table indicates the Function Selection buttons which select the Function Frame buttons shown on the [Properties] window for quick recall.

☞ **p. 139...** Function Selection buttons

NOTE Initial settings that have been changed will become valid when the [Properties] window is closed.

Items and Descriptions	Options	Category and Reference
Copy-Md-Selections Enables frequently used functions to be registered in the [Selections] tab in Copy mode.		Copy Mode ☞ p. 102 Recalling Functions Quickly
Image Processing Selects the initial image processing mode.	<input type="checkbox"/> Line, <input checked="" type="checkbox"/> Duo, <input type="checkbox"/> Photo	Copy Mode ☞ p. 54 Photo/Half-Tone Processing
Scanning Contrast Selects the initial setting of the original scanning contrast.	<input checked="" type="checkbox"/> Auto, Manual (Level 1, Level 2, Level 3, Level 4, Level 5)	Copy Mode ☞ p. 61 Changing Image Contrast on Prints
Margin-Plus Rate Specifies the initial Margin Plus Rate.	90 to 99% Default: <input checked="" type="checkbox"/> 95%	Copy Mode ☞ p. 57 Reducing and Enlarging Originals
[MULTIUP] Display Displays the [MULTIUP] button on the Main-panel window. Set at [ON] to display the button.	ON, <input checked="" type="checkbox"/> OFF	Copy Mode ☞ p. 80 Printing Originals Side by Side
Data-Md-Selections Enables frequently used functions to be registered in the [Selections] tab in the Data mode.		Data Mode ☞ p. 102 Recalling Functions Quickly
Controller Link Sets the control link to [ON] when an optional controller (SC7700, SC7900, etc.) is connected. The [I/F] button will be displayed in the action area of the data mode window when this function is activated.	ON, <input checked="" type="checkbox"/> OFF	Data Mode
Auto Process Mode Selects the initial status of the Auto Process feature.	ON, <input checked="" type="checkbox"/> OFF	System ☞ p. 66 Automatic Printing

Customizing the Initial Settings

Items and Descriptions	Options	Category and Reference
Display Priority Sets up the initial window to be displayed.	<input type="checkbox"/> Copy mode <input type="checkbox"/> Data mode	System
Print Speed Selects the initial print speed (pages per minute).	Level 1 (=60) Level 2 (=80) <input type="checkbox"/> Level 3 (=100) Level 4 (=120) Level 5 (=130) [ppm.]	System ☞ p.62 Changing Print Speed
Print Density Selects the initial print density.	Level 1 (=Light) Level 2 (=Medium Light) <input type="checkbox"/> Level 3 (=Standard) Level 4 (=Medium Dark) Level 5 (=Dark)	System ☞ p.63 Changing Print Density
Reservation Period Specifies the time period to restrict the document data output instructions from a personal computer. <ul style="list-style-type: none"> The [Standard] setting indicates the period that data interruptions are to be restricted after the previous print job. The [Extension] setting indicates the period that data interruptions can be restricted after the [Standard Period] has elapsed if the [Reserved] button is touched. 	<ul style="list-style-type: none"> Standard: 1 to 99 seconds (Default: <input type="checkbox"/> 30 seconds) Extension: 1 to 99 minutes (Default: <input type="checkbox"/> 5 minutes) 	System ☞ p.68 Extending the [Reserved] Period
[Renew Pg] Display Displays the [Renew Pg] button on the Main-panel window.	<input type="checkbox"/> ON, OFF	System
Custom Paper Entry Registers non-standard paper sizes to be used.		System ☞ p.130 Registering Nonstandard Paper
Energy Saving Mode Selects if energy is required to be saved or not, while your printer is idle. Two modes, [Auto Power-off] and [Auto Sleep], are available to save energy. If [Auto Power-off] is selected, the power will be turned off automatically when your printer remains idle for a specified period. If [Auto Sleep] is selected, the power supply will be shut off only for the control panel under the same condition, thus allowing your printer to receive data even in the energy saving mode. You can also select the idle period required to lead your printer into the energy saving mode.	<ul style="list-style-type: none"> Energy saving mode: <input type="checkbox"/> Auto-Sleep, Auto Power-Off, OFF Waiting Time: 1 to 60 minutes (Default: <input type="checkbox"/> 5 minutes) 	System

Customizing the Initial Settings

Items and Descriptions	Options	Category and Reference
<p>Power-OFF schedule Shuts off the power supply to the printer when a specified time has elapsed (any time on a 24-hour clock basis). However, the printer will not be shut off if the printer is used (including externally-connected equipment) or data file is transmitted from an external source within this specified time period.</p>	<ul style="list-style-type: none"> Power-off Schedule: ON, <input type="checkbox"/> OFF Power-off Time: (No Entry) 	System
<p>Auto Idling Action Activates the Auto Idling feature or not. The interval of auto idling and the times of rotation can also be specified.</p>	<ul style="list-style-type: none"> Auto idling: <input type="checkbox"/> ON, OFF Interval: 1 to 12 hours (Default: <input type="checkbox"/> 12 hours) Rotation: Once to three times (Default: <input type="checkbox"/> Once) 	System ☞ p.74 Idling Action
<p>Minimum Print Q'ty Selects the minimum print quantity which should be produced from one master.</p>	<input type="text" value="1"/> to 99 (copies)	System
<p>Job Separator Line Selects if the data line is required to be opened for the optional Job Separator.</p>	ON, <input type="checkbox"/> OFF	Data Mode
<p>Beep Sound Selects if a beep sound is to be emitted or not, to signal the following elements; key/button operation, status change and errors.</p>	<input type="checkbox"/> ON, OFF	System
<p>Clock/Calendar Adjust the time and data of the system clock and calendar. (The system clock time is used as the data receipt time given in the Data mode.)</p>		System
<p>Basic Displayed Language Selects a display language. Consult your service representative.</p>		System
<p>Communication Mode Selects the current communication mode.</p>	<input type="checkbox"/> Local, Remote	Data Mode ☞ p.30 Connecting to a Computer
<p>RMT Data Receiver Selects the data receiving device for the Remote transmission mode. (Available only for the Remote transmission mode)</p>	<input type="checkbox"/> Modem, TA, Cell.Phone NOTE Consult your service representative for the appropriate model of the respective devices.	Data Mode ☞ p.51 Changing the Data Mode Configuration

Customizing the Initial Settings

Items and Descriptions	Options	Category and Reference
<p>RMT Error Transact Selects how to process communication errors in the Remote transmission mode. To suspend the data transmission when an error occurs, select [Pause]. To continue the data transmission clearing the document data which has caused the error, on the other hand, select "Skip the Error". (Available only for the Remote transmission mode)</p>	<p>Skip Error, [Pause]</p> <p>NOTE When [Pause] is selected, an error message appears in the Main Display on the printer to inform you that an error has occurred in data transmission. You can check when the error occurred by printing out the document data already received.</p>	<p>Data Mode p.51 Changing the Data Mode Configuration</p>
<p>Serial Com. Speed Selects the serial communication speed between the printer and the data receiving device for the Remote transmission mode. (Available only for the Remote transmission mode)</p>	<p>[11520bps], 57600bps, 38400bps, 19200bps, 9600bps, 4800bps, 2400bps</p>	<p>Data Mode</p>
<p>AT Command Output Outputs a selected AT command to the connected data receiving device (modem or TA). You can check if your selected data receiving device can properly communicate with the printer by transmitting a desired AT command. For detailed descriptions about the AT commands, refer to the user's guide of the selected data receiving device. (Available only for the Remote transmission mode)</p>	<p>See the List below</p>	<p>Data Mode</p>
<p>Owner Name Entry Sets up the Owner Name to be automatically allocated to the data files created in the Scanning mode.</p>		<p>Data Mode p.49 Customizing the Initial Owner's Name</p>

AT Command

No.	AT command	No.	AT command	No.	AT command	No.	AT command
001	ATB0&W	013	AT&B0&W	025	AT&M5&W	037	ATN3&W
002	ATB1&W	014	AT&B1&W	026	AT&M6&W	038	ATN4&W
003	ATL0&W	015	AT&B2&W	027	AT&M7&W	039	ATN5&W
004	ATL1&W	016	AT&D0&W	028	AT&W0	040	AT%X0&W
005	ATL2&W	017	AT&D1&W	029	AT&W1	041	AT%C0&W
006	ATL3&W	018	AT&D2&W	030	AT&Y0&W	042	AT%C1&W
007	ATM0&W	019	AT&D3&W	031	AT&Y1&W	043	AT%C2&W
008	ATM1&W	020	AT&F&W	032	ATJ0&W	044	AT%C3&W
009	ATM2&W	021	AT&F0	033	ATJ1&W	045	AT&K0&W
010	ATM3&W	022	AT&F1	034	ATN0&W	046	AT&K1&W
011	ATY0	023	AT&M0&W	035	ATN1&W	047	AT&K2&W
012	ATY1	024	AT&M4&W	036	ATN2&W	048	AT&K3&W

NOTE The 0's are zeros.

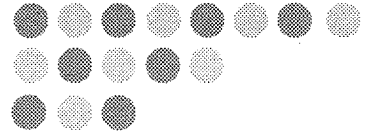


Replenishing and Disposing Consumables

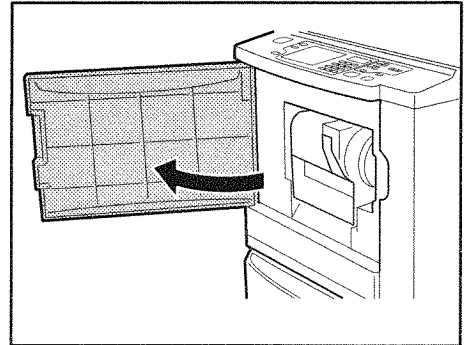
.....
This section describes how to replenish supplies and dispose of them regularly.

Replacing the Ink Cartridge	146
Replacing the Master Roll	149
Emptying the Master Disposal Box	152
Changing Print Color	153

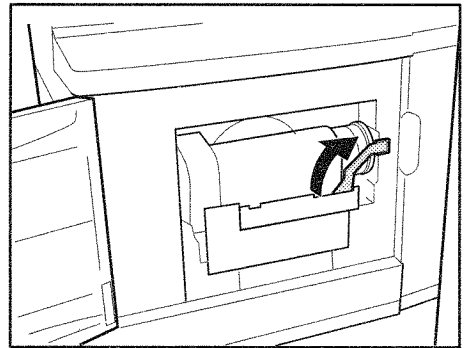
Replacing the Ink Cartridge



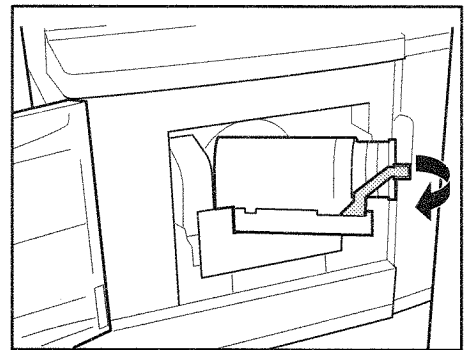
- 1** Open the Front Cover.



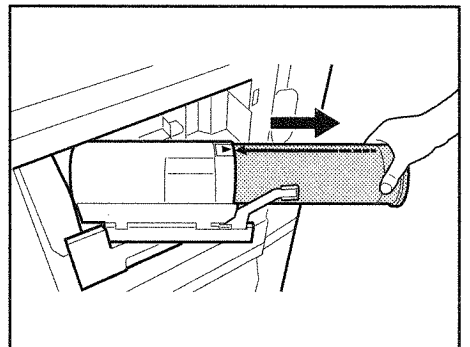
- 2** Turn the Ink Cartridge Locking Lever to the right.
The Ink Cartridge is released.



- 3** Turn the Ink Cartridge Holder off position.
Pull the Ink Cartridge Locking Lever toward you.

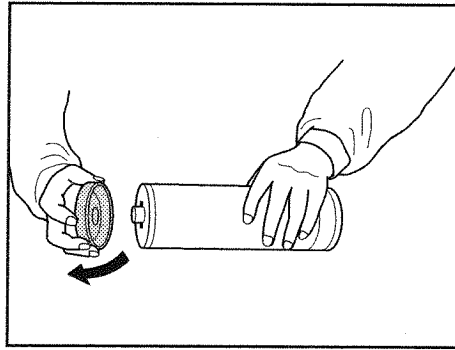


- 4** Pull the empty Ink Cartridge out of the Ink Cartridge Holder.



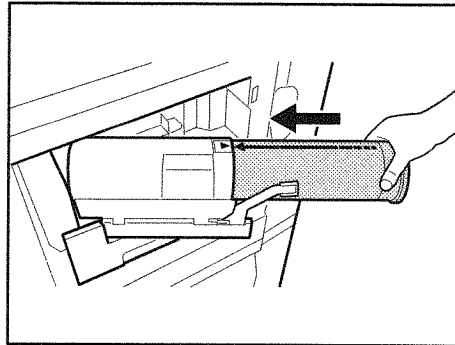
Replacing the Ink Cartridge

- 5** Remove the cap from a new Ink Cartridge.



- 6** Insert the new Ink Cartridge into the Ink Cartridge Holder.

Align the arrow on the Ink Cartridge with the ▼ mark on the Ink Cartridge Holder and push the Ink Cartridge until it stops.

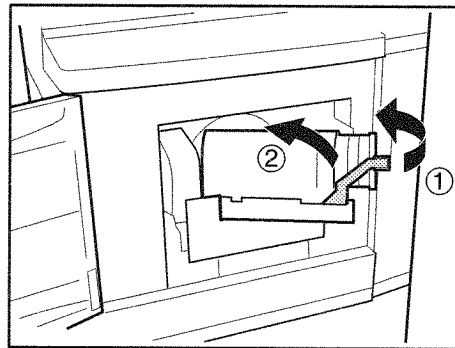


- 7** Push back the Ink Cartridge Holder into position.

Push the Ink Cartridge Locking Lever.

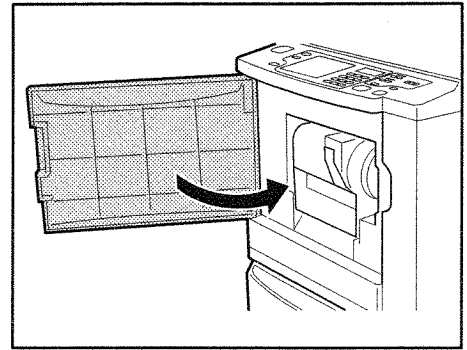
- 8** Turn back the Ink Cartridge Locking Lever to the left.

The Ink Cartridge is locked.



Replacing the Ink Cartridge

- 9** Close the Front Cover.



Important!

- **Never insert a cartridge of a different color ink.**

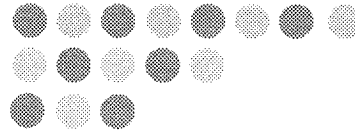
Always be sure that the color of the new ink Cartridge is the same as that of the old one being replaced. If you want to change the print color, you must replace the entire Print Cylinder (Drum).

- **Dispose of the empty Ink Cartridge following the disposal rule in your community.**

The Ink Cartridge is made of the following material: Polypropylene and Polyethylene. Regarding the components of ink, consult your service representative.

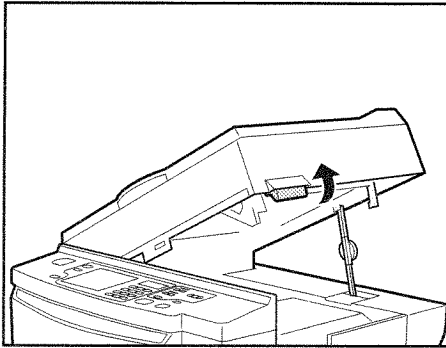
- **Always use the ink cartridge whose name's suffix is the same alphabetic character as of the initial suffix of your machine name, for Black.**

Replacing the Master Roll



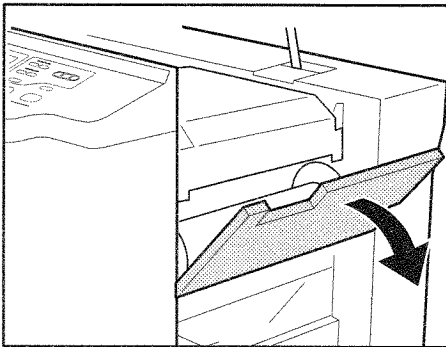
1 Raise the Scanner Table.

Hold the Scanner Table Release Lever and raise the Scanner Table until it stops.



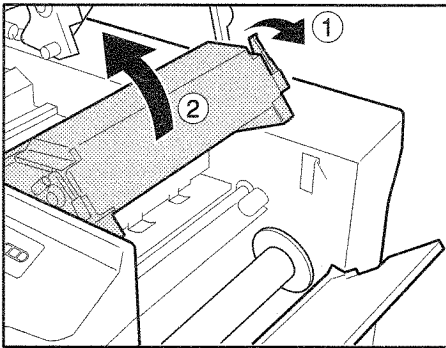
2 Open the Master Roll Cover.

Pull down the Master Roll Cover.



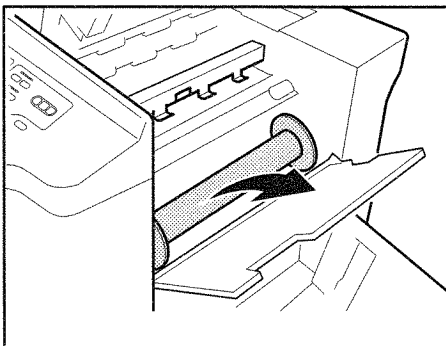
3 Open the Master Making Unit.

Open the Master Making Unit by pulling down the green Master Making Unit Release Lever, which is located on the right side of the unit.



4 Remove the depleted Master Roll.

Pull the depleted Master Roll toward you and remove it from the supporter.

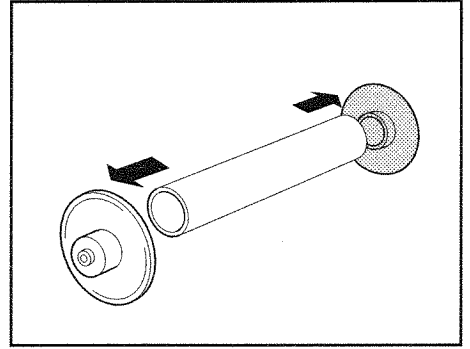


Replacing the Master Roll

5 Remove both left and right flanges.

Remove both left and right flanges from the depleted Master Roll.

NOTE Save the flanges for the replacement roll.

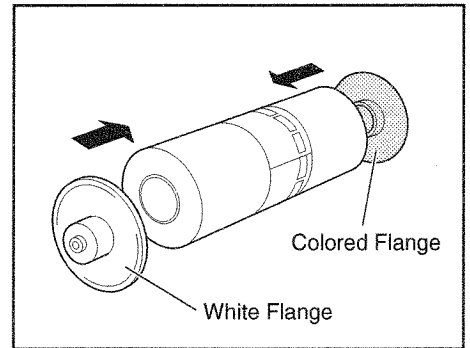


6 Attach the existing flanges to a new Master Roll.

Unpack a new Master Roll.

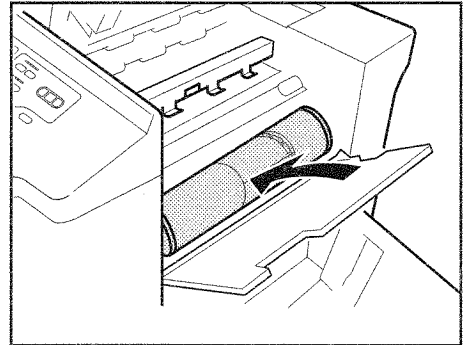
Attach the flanges removed from the depleted Master Roll to the new one, with the colored flange to the right end and the white one to the left end.

Then unwrap the new Master Roll.



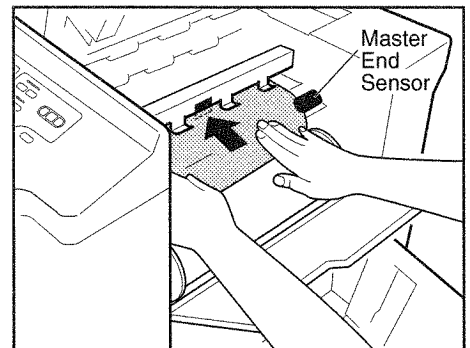
7 Install the new Master Roll.

Insert the Master Roll into the supporter, placing the colored flange on the right-hand flange holder.



8 Insert the leading edge of the Master Roll into the Master Entrance.

Unroll the Master Roll by pulling on the leading edge, pass the Master under the Master End Sensor on the right side and feed it until the leading edge reaches the Master Stopper. Then take the slack winding the Master Roll.

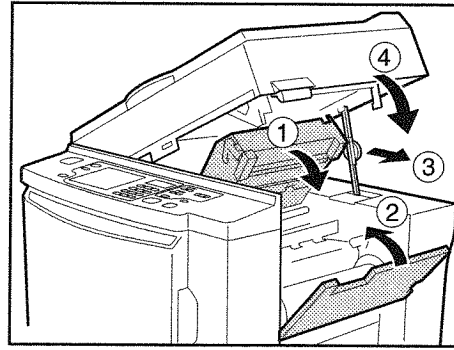


Replacing the Master Roll

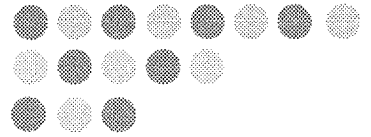
9 Close the Master Making Unit and the Master Roll Cover gently.

10 Close the Scanner Table.

Pull the Scanner Table Support toward you until it stops and then push down the Scanner Table gently.

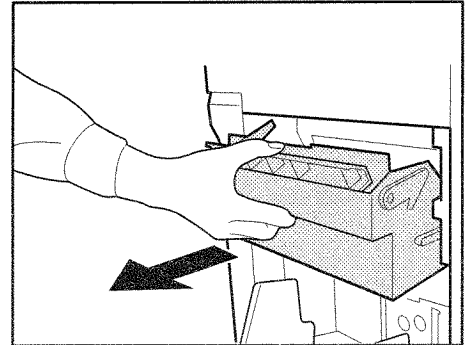


Emptying the Master Disposal Box

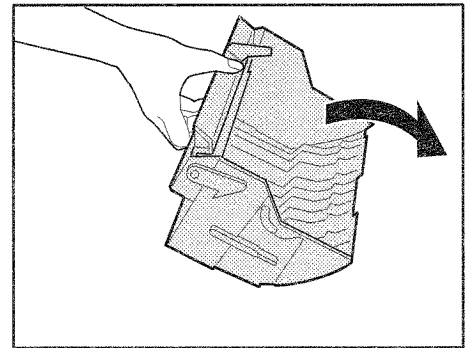


1 Pull out the Master Disposal Box.

Hold the handle of the Master Disposal Box and pull out the box.

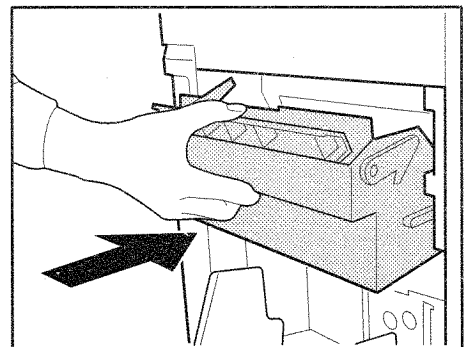


2 Discard used masters.

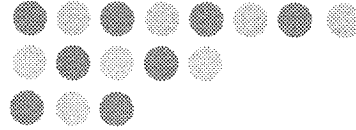


3 Insert the Master Disposal Box into position.

Holding the handle, insert the Master Disposal Box into position as far as it will go. Then release the handle.



Changing Print Color



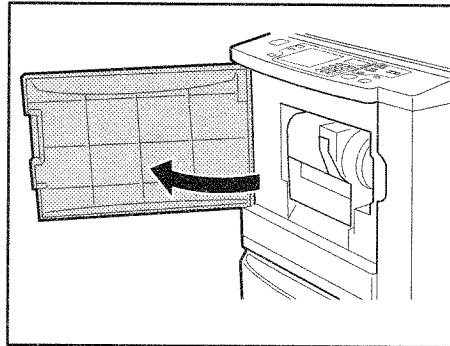
To print with an optional color Cylinder (Drum), simply remove the existing Cylinder (Drum) from your RISO Printer and replace with the color of choice.

⚠ Caution Only use RISO RP Print Cylinder (Drum).

- NOTE**
- Change Print Cylinder (Drum) with the power ON.
 - Store the removed Print Cylinder (Drum) horizontally in the Print Cylinder (Drum) case.
 - Never store Print Cylinder (Drum) in an upright position.

Changing Print Cylinders (Drums)

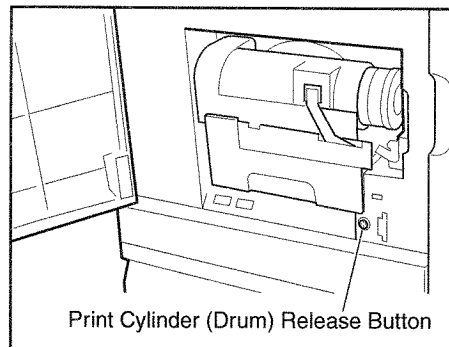
1 Open the Front Cover.



2 Press the Print Cylinder (Drum) Release Button.

The Print Cylinder (Drum) will rotate and stop at the release position, leading the button to light.

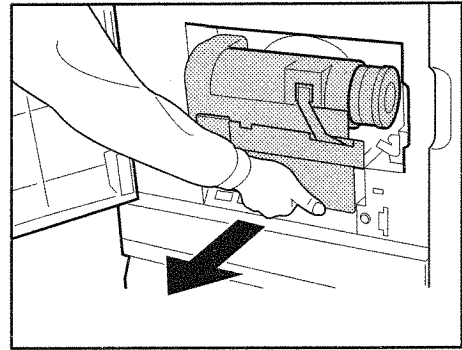
NOTE If the Print Cylinder (Drum) Release Button does not light, the Print Cylinder (Drum) cannot be pulled out.



Changing Print Color

3 Pull out the Print Cylinder (Drum).

Grasp the Print Cylinder (Drum) Handle and pull out the Print Cylinder (Drum) until it stops.



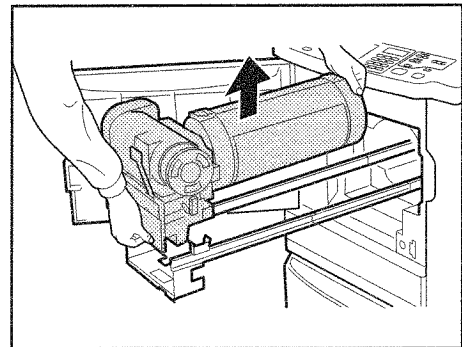
4 Remove the Print Cylinder (Drum) from the unit.

Lift the Print Cylinder (Drum) with both hands to remove it.

Important!

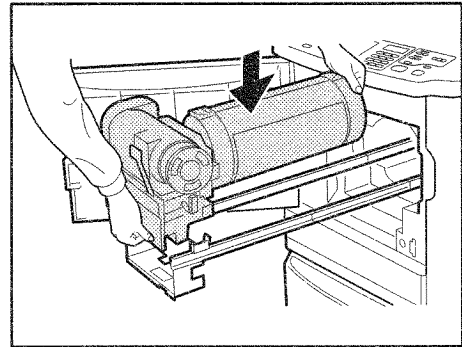
There is ink on the master wrapped around the Print Cylinder (Drum). Keep your hands and clothing away from it.

If your hands come into contact with ink, wash thoroughly.



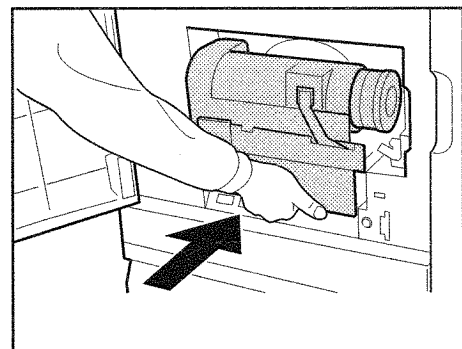
5 Load another color Print Cylinder (Drum) onto the holder.

Place another Print Cylinder (Drum) on the holder horizontally.



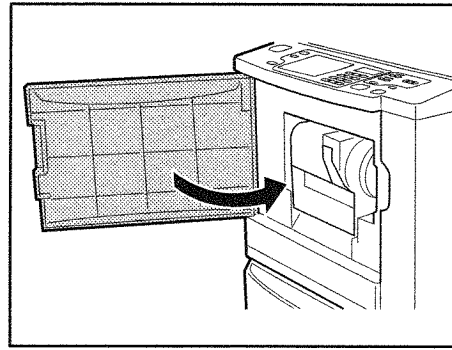
6 Slide the Print Cylinder (Drum) into the unit.

Holding the Print Cylinder (Drum) Handle, slide the Print Cylinder (Drum) into the unit until it stops.

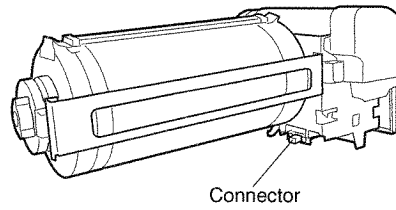


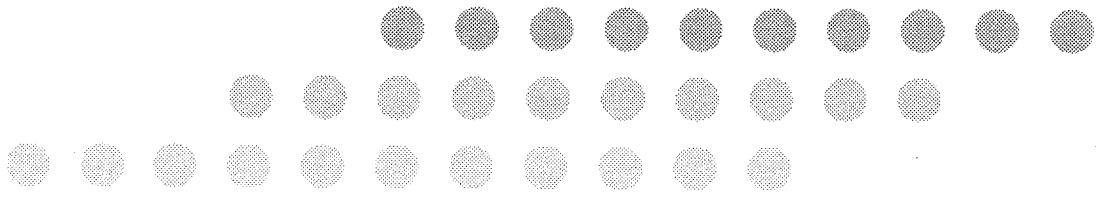
Changing Print Color

7 Close the Front Cover.



⚠ Caution The Print Cylinder (Drum) contains highly sensitive electronic components. To avoid damage by an electrostatic charge, do not touch the Print Cylinder (Drum) Connector.

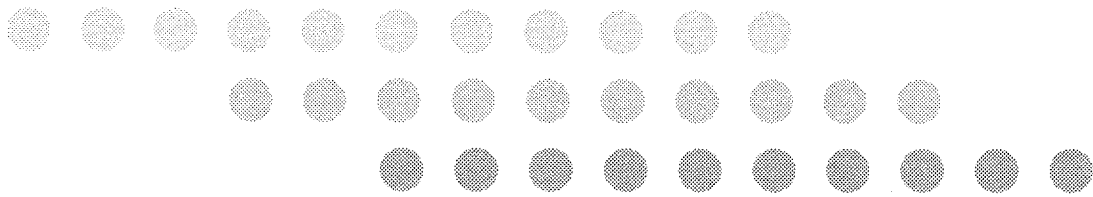




Maintenance

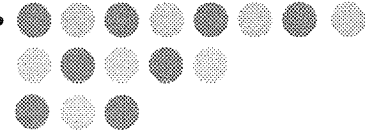
This section describes the actions to be taken to maintain your RISO Printer in proper working order.

Safety Guides - Maintenance	158
Cleaning	159



Safety Guides

- Maintenance



⚠ WARNING [To Avoid Personal Injury]

- DO NOT allow unauthorized persons to make adjustments or repairs.
- DO NOT remove any fixed covers.
- CALL your dealer immediately if you suspect any dangerous situations or have questions or problems with the unit.
- When you want to move the unit, contact your dealer.

⚠ Caution [To Avoid Mechanical Problems]

- Precision parts and driving mechanisms are contained in the unit. Do not perform actions other than those described in this manual.
- Don't make any modifications to the unit or remove parts.
- Neither RISO nor its dealer is responsible for maintenance service performed by non-RISO-authorized personnel.

Replacing the Lithium Battery

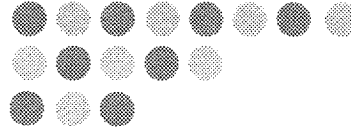
The lithium battery in your machine should last about five years.

When the battery has lost most of the power, however, the message to the right appears in the Main Display. In this case, call your authorized service representative and request to replace battery.

!!Battery Replacement!!
Call Service

⚠ Caution The lithium battery must be replaced by a trained and authorized service representative.

Cleaning

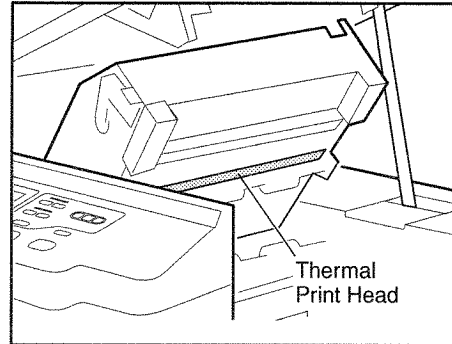


Thermal Print Head

Clean the Thermal Print Head after every two Master rolls. Lift up the Scanner Table and open the Master Making Unit. Then gently wipe the Thermal Print Head (inside the unit) several times with a soft cloth or tissue.

NOTE For more effective cleaning, dampen a soft cloth or tissue with a small amount of alcohol before wiping the Thermal Print Head.

Caution Since the Thermal Print Head is very delicate, avoid shocks or scratching with a hard object.

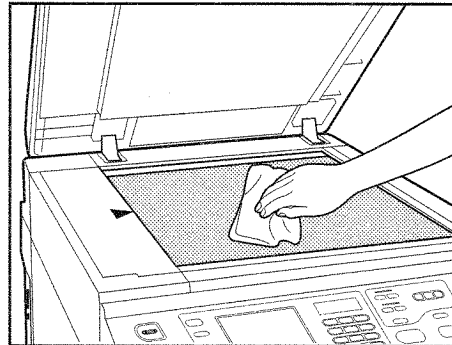


Stage Glass and Stage Cover

If the Stage Glass and/or Stage Cover is stained, imperfections may appear on prints.

Wipe them gently with a soft cloth or tissue.

Caution Since the Stage Glass is very delicate, avoid shocks or scratching with a hard object.

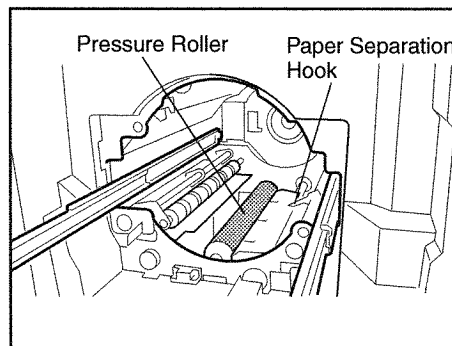


Pressure Roller

If the rubber Pressure Roller (that presses printing paper against the Print Cylinder (Drum)) is stained, smudged strips may appear on the back sides of copies.

In such a case, wipe the Pressure Roller thoroughly with a soft cloth dampened with alcohol, or pass used paper with a blank master loaded on the Print Cylinder (Drum) using the Confidential feature.

Caution Take extra care not to hurt your hand by the sharp tip of the Paper separation hook when wiping the Pressure roller.



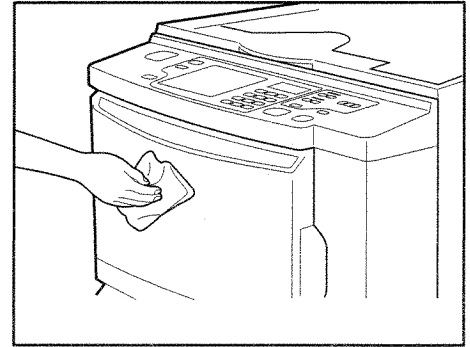
Cleaning

Printer Exterior

To remove dust, wipe the machine exterior periodically with a soft cloth.

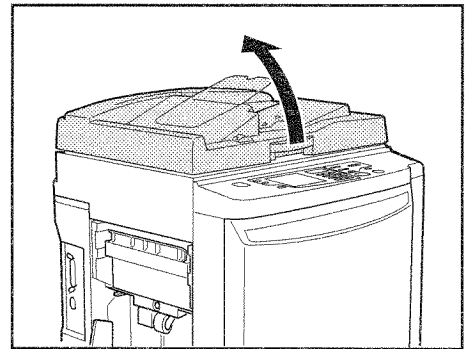
To remove stains, use an appropriate cleanser recommended by your authorized service representative.

⚠ Caution The machine exterior is plastic.
Never use alcohol or solvent for cleaning.



Optional ADF Scanner Glass and White Roller

1 Open the Optional ADF Unit Table.

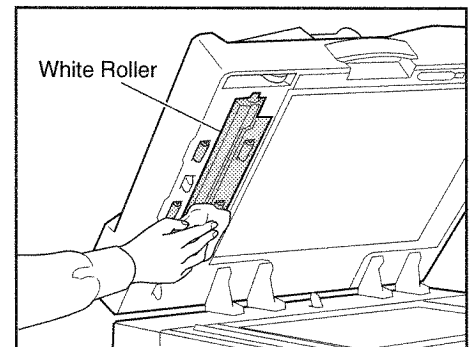
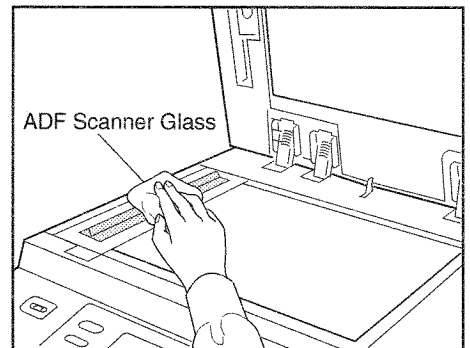


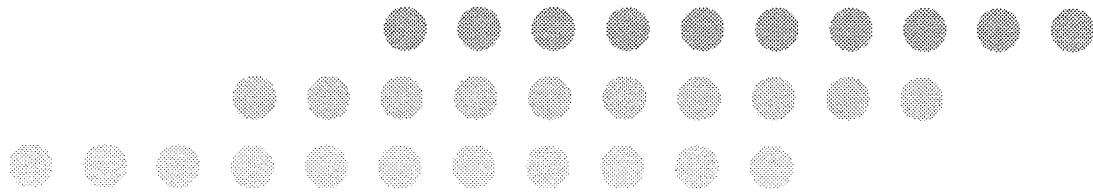
2 Wipe the Scanner Glass and White Roller.

Gently wipe the Scanner Glass and the White Roller several times with a soft cloth or tissue.

NOTE For more effective cleaning, dampen a soft cloth or tissue with a small amount of alcohol before wiping the Scanner Glass and the White Roller.

⚠ Caution Since the Scanner Glass is very delicate, avoid shocks or scratching with a hard object.



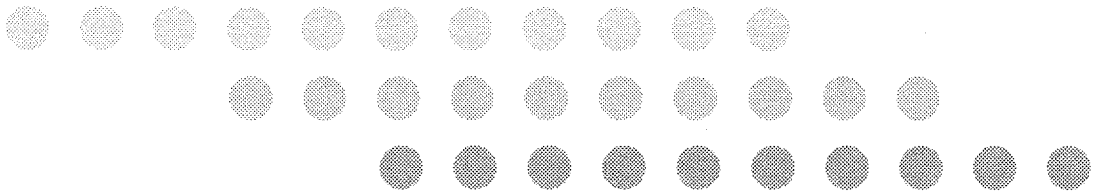


Troubleshooting

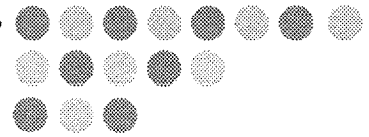


This section shows you how to take care of problems that may arise in relation to operations on your RISO Printer.
Check the related item and follow the instruction before calling your authorized service representative.

Advisory Messages	162
Troubleshooting Tips	172



Advisory Messages



This section shows you the required actions for the advisory messages possibly shown on the Main Display. When any of these advisory messages are displayed, refer to the following list and take the relevant recovery measures accordingly.

Error Messages

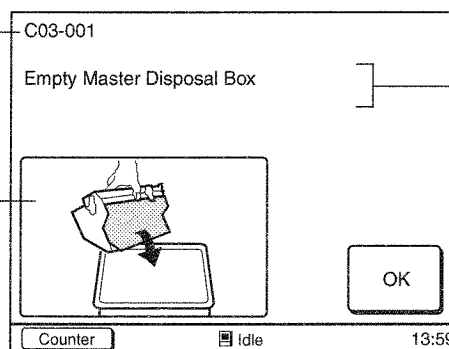
Recovery measures will be shown with messages and graphics depending on the type of the error.

Advice code

Indicates the error type for quick reference.

Graphic instruction

Shows the required action or related locations which should be checked.



Instruction message

Displays the details on the error and the relevant recovery measure.

Advice Code

The first letter of the code indicates the error type.

T00-000: Requires Technical Assistance **p.163**

Appears when an error that requires an inspection or repair by a serviceperson occurs. Contact your dealer (or maintenance/service company) and advise them of the Advice code.

C000-000: Check Supplies and Disposal Box **p.163**

Appears when ink, masters and other consumables need to be replaced or discarded.

D00-000: Check Settings **p.164**

Appears when parts are not set correctly in place.

B00-000: Errors in Optional Devices **p.165**

Appears when an error occurs on any of the connected options.

A00-000: Other Errors **p.165**

Appears when masters, etc. get jammed.

G01-0451: Paper Jam **p.167**

Appears when original copy or printing paper is jammed in the ADF unit (optional) or in the printer.

Advisory Messages

T00-000: Requires Technical Assistance

Message	Description	Action
Image Scanner is Locked!! Unlock it	Trouble has occurred with the Image Scanner.	Contact your authorized service representative and advise them of the advice code displayed.
!!System Error!! Press Reset Key If Recovery has Failed, Call Service	An error has occurred in the system.	Contact your authorized service representative and advise them of the advice code displayed when the printer does not recover even if the Reset key has been pressed.
!!System Error!! Turn Main Power SW OFF Then ON If Recovery has Failed, Call Service	An error has occurred in the system.	Contact your authorized service representative and advise them of the advice code displayed when the printer does not recover even if the power has been switched off and then on again.

C00-000: Check Supplies and Disposal Box

Message	Description	Action
Empty Master Disposal Box	The Master Disposal Box is full.	Discard the used masters from the Master Disposal Box. ☞ p.152... Emptying the Master Disposal Box
No Ink Replace Ink Cartridge	The ink has run out.	Replace the ink with a new bottle and ensure that it is set correctly in place. ☞ p.146... Replacing the Ink Cartridge
No Master Replace Master Roll	The master roll has run out.	Set a new master roll in place. ☞ p.149... Replacing the Master Roll Important! Do not discard the flanges attached to the depleted master roll. Set them onto the new master roll.

Advisory Messages

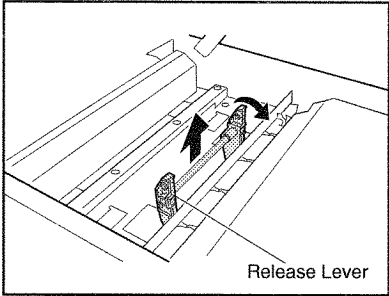
D00-000: Check Settings

Message	Description	Action
Close Disposal Top Cover	The Master Disposal Unit is not correctly closed.	Open the Scanner Table and close the Master Disposal Unit securely.
Close Front Cover	The Front Cover is not correctly closed.	Close the Front Cover tightly, pressing on the lower right-hand area.
Close Master Making Unit	The Master Making Unit is open.	Open the Scanner Table and close the Master Making Unit securely.
Close Scanner Table	The Scanner Table is not correctly closed.	Close the Scanner Table tightly, holding it down.
Install Ink Cartridge	The ink cartridge is not correctly set.	Set the ink cartridge in place correctly. ☞ p.146... Replacing the Ink Cartridge
Master Not Set in Place Insert Lead Edge of Master into Master Entrance and Close Master Making Unit	The master is not set correctly.	Install a master roll, if required, and insert the lead edge into the Master Entrance. Then close the Master Making Unit. ☞ p.149... Replacing the Master Roll
Set Master Disposal Box in Place	The Master Disposal Box is not correctly set.	Insert the Master Disposal Box completely, holding the handle. ☞ p.152... Emptying the Master Disposal Box
Set Print Cylinder (Drum) in Place	The Print Cylinder (Drum) is not correctly set.	Slide it into place, holding the handle. ☞ p.153... Changing Print Cylinders (Drums)
Wrong-Type Ink Cartridge Installed	This type of ink cartridge is not acceptable for this machine.	Insert a correct type. If you do not know what ink cartridge is the correct type, contact your service representative. ☞ p.146... Replacing the Ink Cartridge
Wrong-Type Print Cylinder (Drum) Installed	This type of Print Cylinder (Drum) is not acceptable for this machine.	Install a correct Print Cylinder (Drum). If you do not know what Print Cylinder (Drum) is the correct one, contact your service representative. ☞ p.153... Changing Print Cylinders (Drums)

B00-000: Errors in Optional Devices

Message	Description	Action
Close Sorter's Cover	The sorter's (optional) cover is open.	Close the sorter's cover.
Check Sorter's Panel Display	An error has occurred with the sorter (optional.)	Check the panel on the sorter. (Refer to the sorter user's manual for details on operating the sorter.)
Insert Card in Key/Card Counter	An operator card has not been set in place in the Key/Card Counter (optional.)	Insert an operator card in the Key/Card Counter.
!! Job Separator Has No Power !! Turn On Power Switch of it	The power to the Job Separator (optional) has not been switched on.	Turn on the power switch on the Job Separator.
No Paper Tape in Job Separator Replace Tape Roll	The Job Separator (optional) tape has run out.	Set a new tape in the Job Separator.
Paper Tape Jam in Job Separator Remove Paper Tape	Paper tape is jammed in the Job Separator (optional).	Check the Job Separator and remove the jammed tape.

A00-000: Other Errors

Message	Description	Action
Check Paper Feed Tray	The safety switch under the Paper Feed Tray has been activated.	Check the paper feed area for any obstructions and clear it if an obstacle is found.
Master Disposal Error Pull Out Print Cylinder (Drum) and Discard Master	A used master remains on the Print Cylinder (Drum).	Open the Front Cover, pull out the Print Cylinder (Drum) and remove the remaining master. After returning the Print Cylinder (Drum) to its position, press the Start key to restart master-making operation. * p.153... Changing Print Cylinders (Drums)
Master Jammed in Disposal Unit Open Scanner Table and Disposal Top Cover, then Remove Master	A used master is stuck at the entrance of the Master Disposal Unit.	Open the Scanner Table and the Disposal Top Cover, and then remove the stuck master inside. To open the Disposal Top Cover, pull up the handle, tilting down the green lever. 

Advisory Messages

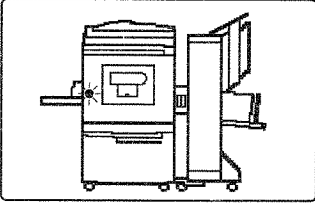
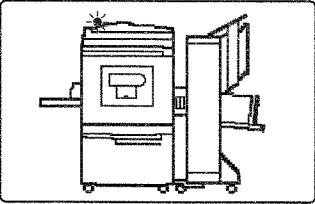
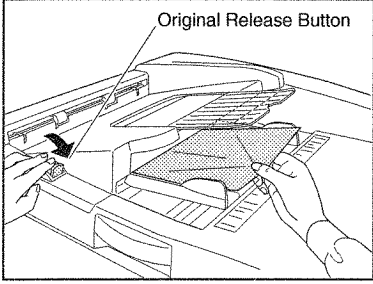
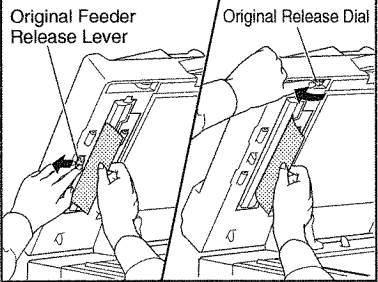
Message	Description	Action
Master Mis-Feed Rewind Master Roll and Reset Master in Place	Master has misfed.	Open the Master Making Unit and wind the master roll. Then reset master in place. Press the Start key to resume operation. ☞ p.149... Replacing the Master Roll
Master Remains on Print Cylinder (Drum) Pull Out Print Cylinder (Drum) and Remove Master	A used master remains on the Print Cylinder (Drum).	① Open the Front Cover and pull out the Print Cylinder (Drum). Then remove the master on the Print Cylinder (Drum) and return the Print Cylinder (Drum) into the original position. ② Open the Master Making Unit and wind the master roll. Then reset master in place. After closing the Master Making Unit, resume operation from master-making. ☞ p.153... Changing Print Cylinders (Drums) ☞ p.149... Replacing the Master Roll
Master was Not Loaded on Print Cylinder (Drum) Correctly Pull Out Print Cylinder (Drum) and Remove Master	The master has not been properly loaded on the Print Cylinder (Drum).	① Open the Front Cover and pull out the Print Cylinder (Drum). Then remove the master on the Print Cylinder (Drum) and return the Print Cylinder (Drum) into the original position. ② Open the Master Making Unit and wind the master roll. Then reset master in place. After closing the Master Making Unit, resume operation from master-making. ☞ p.153... Changing Print Cylinders (Drums) ☞ p.149... Replacing the Master Roll
Place Originals in ADF Again	The original has not be set correctly in the ADF unit (optional).	Make sure that the original is face-down, and then insert it into the ADF Unit until it stops. ☞ p.26... Basic Procedure
Print Cylinder (Drum) has been Unlocked To Lock it Again, Pull it Out and Set it Back in Place	The Print Cylinder (Drum) is ready to be pulled out.	Pull out the Print Cylinder (Drum) and then reset it in place. ☞ p.153... Changing Print Cylinders (Drums)
!!System Error!! Rewind Master Roll and Close Scanner Table.	The cutter did not operate in master cutting.	Open the Scanner Table and the Master Making Unit. Once remove the master roll and close the Master Making Unit and the Scanner Table, then open them again and reset the master correctly. ☞ p.149... Replacing the Master Roll

G01-0451: Paper Jam

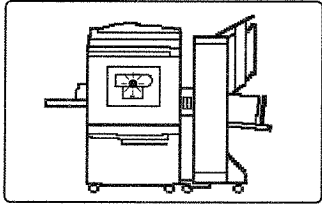
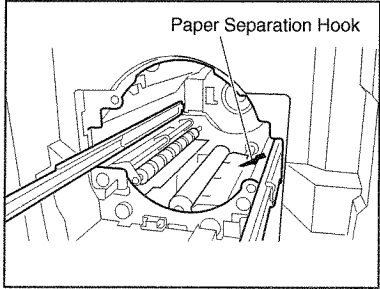
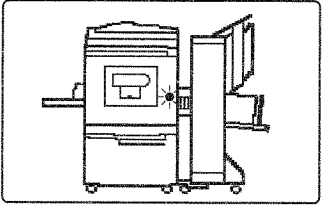
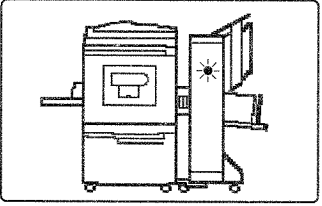
The following message will be displayed when documents or paper are jammed inside the ADF unit (optional) or the printer.

Paper Jam
Check Indicated Areas and
Press [OK] button

The place where paper jam has occurred will be shown by the flashing mark on the graphic. If an error has occurred, refer to the relevant column below and take action accordingly.

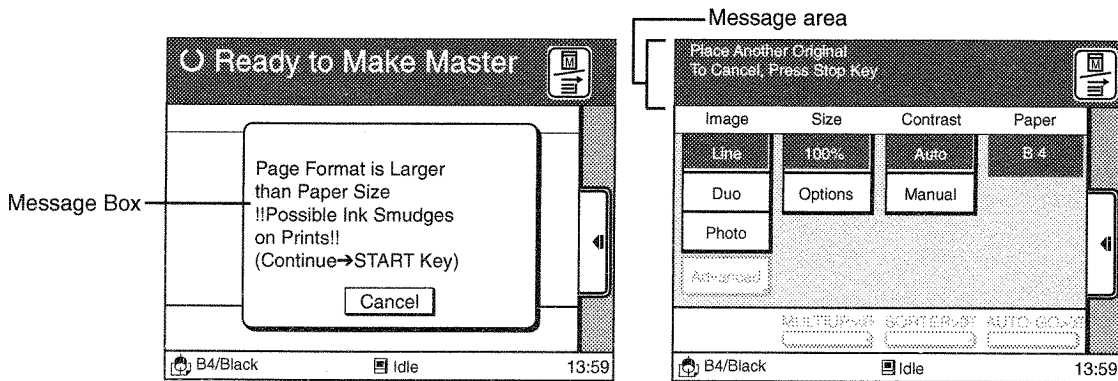
Location and Description	Action
 <p>Paper was not fed or was improperly fed.</p>	<ol style="list-style-type: none"> ① Check paper on the Paper Feed Tray and remove the jammed paper if any. ② Reset the paper in place. ③ Press the Reset key if the indicator is still flashing.
 <p>An original has jammed in the ADF Unit (optional).</p>	<p>Pull out the original while pressing the Original Release Button to the right.</p>  <p>Original Release Button</p> <p>If the original has been fed too far to be removed from the entrance side of the ADF Unit, open the unit and pull out the original, while turning the Original Release Dial at the bottom of the unit or pressing the Original Feeder Release Lever to the left.</p>  <p>Original Feeder Release Lever Original Release Dial</p>

Advisory Messages

Location and Description	Action
 <p data-bbox="355 632 708 688">Paper has jammed on or under the Print Cylinder (Drum).</p>	<p data-bbox="777 212 1466 268">Open the Front Cover, pull out the Print Cylinder (Drum), and remove the paper.</p> <p data-bbox="777 268 1242 296">☛ p.153... Changing Print Cylinders (Drums)</p> <p data-bbox="777 317 911 352">⚠ Caution</p> <p data-bbox="777 359 1089 499">Take extra care not to hurt your hand by the sharp tip of the Paper Separation Hook when removing the paper jammed inside the unit.</p> 
 <p data-bbox="355 1062 672 1089">Paper was not ejected properly.</p>	<p data-bbox="777 722 1414 749">Check the paper ejection area and remove jammed paper if any.</p>
 <p data-bbox="355 1430 672 1486">Paper has jammed in the sorter (optional).</p>	<p data-bbox="777 1117 1179 1144">Remove the paper jammed in the sorter.</p>

Warning Messages

The various warning messages will be displayed in the Message Boxes or in the Message area on the Main Display.



Warning Messages in Message Boxes

Message	Description	Action
!!Battery Replacement!! Call Service	The battery has lost most of the power.	Contact your authorized service representative and request to replace a battery. To continue operation, touch the [Cancel] button, or press the Stop or Reset key. p.158... Replacing the Lithium Battery
!!Book Shadow Editor is NOT Available with ADF!! Place Original on Stage Glass	An original has been set in the ADF Unit while [Book Shadow Editor] function is activated.	Place the original on the Stage Glass.
Communication Error Check Communication Devices and Cables Then Press [OK] Button	A communication error occurred with the remote communication mode.	Check for the modem, the TA and other communication equipment, including the connection cables. To close the Message Box, touch the [OK] button or press the Reset key.
!!Images may Not be Just in Frame of Paper with This Reproduction Size!! Check Current Selection (Continue ->START Key)	It is assumed that the enlargement ratio is not suitable for the paper set in place.	Check the size of the paper and the enlargement ratio currently set. <ul style="list-style-type: none"> To continue printing: Press the Start key. To cancel printing: - Touch the [Cancel] button. - Press the Stop or Reset key.
!!Maintenance!! Call Service	The periodical maintenance service is required.	Contact your authorized service representative. To continue operation, touch the [Close] button or press the Stop or Reset key.

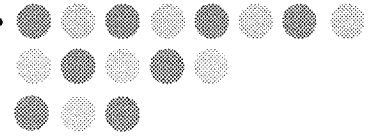
Advisory Messages

Message	Description	Action
No Master on Print Cylinder (Drum) Make a New Master	There is no master on the Print Cylinder (Drum).	Place an original on the Stage Glass or in the ADF Unit (optional) and press the Start key. To cancel printing, press the Stop or Reset key.
Page Format is Larger than Paper Size !!Possible Ink Smudges on Prints!! (Continue→START Key/TEST Key)	Loaded paper size is smaller than the image size.	Set the correct sized paper in place. <ul style="list-style-type: none"> To continue printing: Press the Start key (Test Print key) To cancel printing: - Touch the [Cancel] button - Press the Stop or Reset key.
!!Paper Size Selection is Not Correct!! Change Selection	The paper size setting and the printing paper size do not match.	Set the correct paper size on the [Paper Size Entry] window. To continue operation, touch the [Close] button or press the Reset key.
!!The Current Paper Size is Not Correct!! Change Paper Size	The original size and the paper size do not match.	Set the correct sized paper in place. To continue operation: <ul style="list-style-type: none"> Touch the [Close] button. Press the Stop or Reset key. Replace the paper or the original.
!!The Data Storage Area has Become Full!! Clear Old Storage Data to Take in Coming Ones	There is no space left in the storage memory.	Clear the unwanted storage memory to receive next data. To continue operation, touch the [Close] button or press the Reset key.
!!The Image Resolution of the Current Data has Just been Converted!! (Continue→START Key)	The resolution of the document data is not suitable for the unit.	<ul style="list-style-type: none"> To continue printing: Press the Start key. To cancel printing: - Touch the [Cancel] button. - Press the Stop or Reset key.
The properties cannot be changed during data processing.	The document data transmitted from the personal computer is being processed.	Touch the [Close] button, and Wait until the document data being processed is printed.
!!Unmatched Size —— Print Cylinder (Drum) and Image Area!! Check Print Cylinder (Drum) (Continue→START Key)	The size of the image area and the size of the Print Cylinder (Drum) do not match.	Adjust the Print Cylinder (Drum) size and the image area size. <ul style="list-style-type: none"> To continue printing: Press the Start key. To Cancel printing: - Touch the [Cancel] button. - Press the Stop key or Reset key.
Enter Print Quantity Over [##], Programmed Minimum Value	The entered print quantity is less than the minimum print quantity setting.	Enter the print quantity not less than the minimum print quantity, or change the initial setting of the minimum print quantity. ☞ p.138... Customizing the Initial Settings

Warning Messages in the Message Area

Message	Description	Action
Place Another Original and Press Start Key To Cancel, Press Stop Key	The printer is ready to scan the next original in Programmed printing (Multiple-original program) or in Multi-up printing on the Stage Glass.	Set the next original on the Stage Glass or in the ADF Unit (optional) and then press the Start key. To cancel printing, press the Stop key.
Place Another Original To Cancel, Press Stop Key	The printer is ready to scan the next original in Multi-up printing on the ADF Unit (optional).	Set the next original in the ADF Unit. To cancel printing, press the Stop key.

Troubleshooting Tips



If any problems occur in printing on your RISO printer, check the related items in this chapter before calling your authorized service representative.

Problem	Cause	Action
The unit does not start even when the power switch is pressed.		<ul style="list-style-type: none"> • Check whether the power cord is firmly connected to an electrical outlet. • Check whether the power cord is connected to the unit. • Check whether the commercial power circuit breaker is on.
The "Close Front Cover" message appears even when the Front cover is closed.	There is a metal plate in the lower right-hand section of the Front cover. Unless this plate is in direct contact with the magnet on the lower right-hand part of the machine, the advisory message remains on the Main Display.	Press on the lower right-hand area of the Front cover to close it tightly.
There is no image on copies.	Check whether the original is correctly placed.	Be sure it is placed face down. ☞ p.26... Basic Procedure
	Check whether the master is correctly placed.	Be sure it is placed with the leading edge unrolled from below. ☞ p.149... Replacing the Master Roll
The unwanted background of an original is picked up on copies.	If newspaper or colored paper is used as an original, the background might have been picked up on copies.	Lighten the Scanning Contrast. Then replace the original and press the Start key. ☞ p.61... Changing Image Contrast on Prints
Copies are incomplete; some images are missing or unclear.	The Stage glass may be stained with correction fluid or glue.	Open the Stage Cover (or the optional ADF Unit table) and clean the Stage Glass using a soft cloth or tissue. ☞ p.159... Cleaning
	A foreign object may be on or under the master on the Print Cylinder (Drum).	Pull out the Print Cylinder (Drum) and remove the object. ☞ p.153... Changing Print Cylinders (Drums)
	An original without margin has been scanned in the [Book Shadow Editor] mode.	Quit the [Book Shadow Editor] mode and newly make a master.
	The paper size indicated in the Main Display may be smaller than the actual size of printing paper loaded on the Paper feed tray. In this case, the images placed beyond the displayed paper size on originals might not be printed on copies.	Make the displayed paper size equal to the actual one.

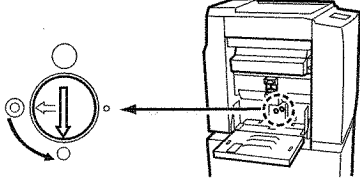
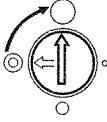
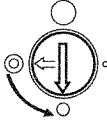
Troubleshooting Tips

Problem	Cause	Action
Printed copies are half or three quarter blank in the Multi-Up printing.	The originals were not set on the Stage Glass within the specified interval.	The originals while the message [Place Another Original and Press Start Key] is displayed with a buzz sound. If necessary, change the interval setting. ☞ p.80... Printing Originals Side by Side
	The Stop key may have been pressed by mistake during scanning originals.	Repeat operation from the beginning.
Printed images are excessively faint or blurred.	If the machine is not used for a long period of time, ink on the surface of the Print Cylinder (Drum) may dry. Dry ink on the Print Cylinder (Drum) may cause faint or blurred printing.	Press the Test Print key several times until a clear printed image is obtained. Activate the Idling feature before operation to prevent light images that may occur after periods of non-use. ☞ p.74... Idling Action
	Light originals result in light images.	Make scanning contrast darker. Then replace the original and press the Start key. ☞ p.61... Changing Image Contrast on Prints
	If the temperature is low (below 59°F or 15°C) or the Ink cartridges are stored in a cold place, ink may not flow smoothly.	Warm the room or Ink cartridge before operating the unit.
Vertical blank lines are found on printed copies.	The Thermal Print Head (the device that makes the master) may be smudged with paper powder from the master.	Open the Master Making Unit and clean the Thermal Print Head using a soft cloth or tissue. ☞ p.159... Cleaning
	The Stage Glass may be stained with correction fluid or dust.	Open the Stage Cover (or the optional ADF unit table) and gently clean the Stage Glass using a soft cloth or tissue. ☞ p.159... Cleaning
	If the optional ADF unit is installed: The ADF Scanner Glass may be smudged with dust or correction fluid.	Open the ADF unit table and clean the glass using a soft cloth or tissue. ☞ p.159... Cleaning

Troubleshooting Tips

Problem	Cause	Action
The back of finished copies are smudged with ink.	The rubber Pressure roller, which keeps printing paper pressed against the Print Cylinder (Drum) during printing, may be stained with ink.	Remove the Print Cylinder (Drum) and clean the roller gently with a soft cloth or tissue. ☞ p.159... Cleaning
	The paper size indicated in the Main Display may be larger than the actual size of printing paper loaded. In this case, images might be printed beyond the paper frame, causing the rubber Pressure roller to be stained with ink.	Make the displayed paper size equal to the actual one. ☞ p.26... Basic Procedure
Paper sticks to the surface of the Print Cylinder (Drum).		<ul style="list-style-type: none"> • Use recommended printing paper. ☞ p.18... Paper Recommendations • Lower the vertical print position with the Print Position Adjustment key. ☞ p.64... Repositioning the Print • Replace the original in the reverse direction and restart printing from the beginning (master-making).
Paper cannot feed well.	Paper slips.	<ul style="list-style-type: none"> • Set the Paper feed pressure adjustment lever to "CARD". ☞ p.20... Preparing to Print • Change the Paper feed mode according to the type of the paper in use.
The printer repeats the master-making process for each copy of the identical page.	The [Collate Copies] or [Collate] option was selected as a print condition for the received document data.	Cancel the current print job and send the document data concerned again without selecting the [Collate Copies] or [Collate] option as a print condition.

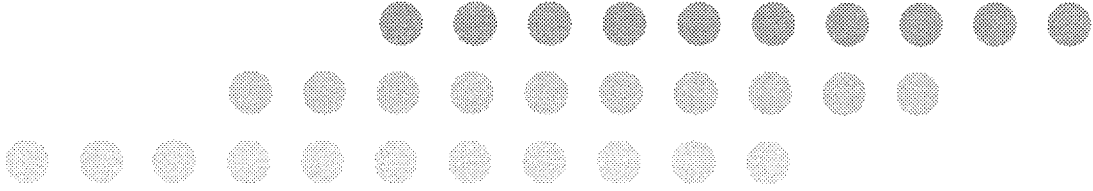
Troubleshooting Tips

Problem	Cause	Action
Paper cannot feed well.	Paper slips.	Set the Paper Feed Pressure Adjustment Lever to "CARD".
Cards frequently jam in the Paper Feed Area even the Paper Feed Pressure Adjustment Lever is set to "CARD".		Decrease the stripper pressure as shown by the arrows. 
Multiple paper feeding occurs.		Increase the stripper pressure as indicated by the arrows. 
The back of printed cards is peeling or separating, or there are wrinkles on the leading edge of printed copies.		Decrease the stripper pressure as shown by the arrows. 

Troubleshooting Tips

With the Optional Document Memory Card

Problem	Cause	Action
The following message is displayed: Communication Error Check Communication Devices and Cables.	A communication error has occurred while receiving the current document data.	Print out the received document data to check what document data have not been received and request to transmit the remaining data again.
Document data cannot be received through the modem.	The modem has no power.	Check the power cord and power switch of the modem.
	The power of the RISO Printer is turned off.	Turn it on.
	The cables are not correctly connected to the modem and/or the public telecommunication line.	Check if the modem cable is securely connected between the serial port of your RISO Printer and the LINE terminal of the modem.
		Check if the telecommunication wire is securely connected between the PHONE terminal of the modem and the public telecommunication line socket.
	[Local] is selected as communication mode.	Select [Remote] as communication mode. ☞ p.138... Customizing The Initial Settings
	The storage memory is full of spooled document data.	Print out the spooled document data and clear them from the storage memory.
	A communication error has occurred while receiving the document data, causing the message "Data Receiving Error" to appear in the Output option window.	Print out the received document data and clear them from the memory of your printer.
A unique configuration is selected for the static memory in the modem.	Recover the factory-set configuration of the static memory in the modem, referring to the user's guide of the modem concerned.	
The modem cannot transmit the received document data to the RISO Printer.	The data transmission level of the modem is not suitable for your RISO Printer.	Adjust the data transmission level of the modem, referring to the user's guide or contacting the manufacturer of the modem concerned.
"Unknown" appears in the lines of several listed items when the [File Properties] window is opened for the received document data.	The dedicated communication utility software, RISORINC Manager, was not used to transmit the document data.	Use the RISORINC Manager to transmit data if you want to know the details of all listed items in the [File Properties] window. ☞ p.35... Expanding Functions with the Document Memory Card
The receipt time and/or date of the document data, which is displayed in the [File Properties] window, is not correct.	The system clock and calendar of your printer are not correctly adjusted.	Adjust them correctly. ☞ p.138... Customizing the Initial Settings

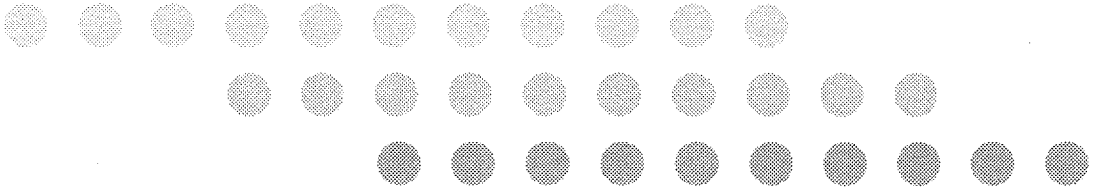


Appendices



This section includes information on options and specifications.

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Optional Accessories

A variety of optional accessories are available to enhance the capabilities of your RISO Printer RP series models.

Color Cylinder [Drum]

A variety of colors are available, such as blue, red, green, and brown. Each Cylinder (Drum) has its own case for storage.

☞ **p. 153** ... By exchanging the Cylinder (Drum), you can achieve multicolor prints.

ADF Unit VI

The Automatic Document Feed (ADF) Unit automatically feeds up to 50 sheets for scanning. When you use the ADF Unit with the Auto Process, Programmed Printing, Multi-Up printing, or Print Job Memory features, multiple print jobs can be set up and completed automatically.

Digitizer V

This accessory can be used to edit and adapt originals to be scanned and printed. You can divide an original into areas to create customized prints, using editing features such as framing, screening, outlining, stamping, and reversing. This accessory also provides a feature making it easy to create multicolor prints.

Sorter TM2500

This compact sorter is capable of handling up to 11"×17" (or A3-sized) paper. It is equipped with an external electric stapler so that you can efficiently create booklets from finished prints.

Sorter TM5000

This large-capacity sorter enables you to produce multiple sets of booklets (50 sets per tower) without extra manual operation. Printed copies are stacked into the tower at the maximum print speed and automatically stapled with the built-in motor-driven stapler. 3 additional towers are available to expand the capacity.

Job Separator IV

This accessory efficiently sorts groups of prints with strips of paper as they are printed. The Job Separator is attached next to the Paper receiving tray.

Key Card Counter IV

This counter shows the numbers of printed sheets and consumed masters within a preset period of time. This can help you control costs.

Network Interface Card RISORINC-NET-B

This card can be seated on the built-in printer control board, extending the activity field of your RISO Printer into the Ethernet network environment.

When your RISO Printer is connected to the Ethernet LAN environment, besides, the operation status can be checked on your PC screen, using the accessory monitoring utility software, RISO-MONITOR.

Document Memory Card DMC-32

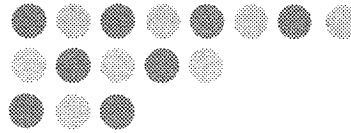
This non-volatile document memory enables internal storage of frequently-used forms through two data sources, PC and the printer's Stage Glass, for repeated output. The printer will also be able to receive data from a remote location with this memory card.

Special Paper Feed Kit

This accessory will enhance the capabilities of your RISO Printer by widening the variety of available paper stock, especially card stock and envelopes.

Specifications

- RN2530



Processing	High-speed automatic digital scanning/fully automatic, thermal screening duplicating system
Time to First Copy	Letter or A4 original : approx. 16 sec.
Print Speed	5 selectable print speeds (60 to 130 sheets/min.)
Scanning Resolution	400 x 400dpi
Original Input Type	Bound documents or sheets
Original Size	- For the Stage Glass - 2" x 3 ¹ / ₂ "(50 x 90 mm) to 11 ⁵ / ₈ " x 17"(Ledger, A3, or 297 x 432 mm) - In the optional ADF Unit - 3 ¹ / ₂ " x 5 ¹ / ₂ "(A6 or 90 x 140 mm) to 11 ⁵ / ₈ " x 17"(Ledger, A3, or 297 x 432 mm)
Output Paper Size	3 ¹ / ₂ " x 5 ¹ / ₂ "(90 x 140 mm) to 11 ³ / ₈ " x 15 ¹ / ₂ "(290 x 395 mm)
Original Weight	- For the Stage Glass - 22lbs. (10kg) or less - In the optional ADF Unit - 14-lb bond (50g/m ²) to 28-lb bond (110g/m ²)
Output Paper Weight	13-lb bond (46g/m ²) to 110-lb index stock (210g/m ²)
Image Area	8 ¹ / ₄ " x 14"(210 x 357 mm)
Paper Capacity	1000 sheets in feed and receiving tray
Enlargement Parameters	154%, 129%
Reduction Parameters	50%, 61%, 65%, 78%
Zooming Parameters	50% to 200%
Print Colors	A wide range of colors including : Black, Blue, Red, Green, Brown, Yellow, etc.
Optional Accessories	Color Cylinder (Drum), ADF Unit VI, Digitizer V, Job Separator IV, Key/Card Counter IV, Sorter TM2500, Sorter TM5000, Special Paper Feed Kit, Document Memory Card DMC-32 and Network Interface Card
Power Source (Requirements)	RN2530UI : 120V AC, 60Hz <3.0A> RN2530AS : 220-240V AC, 50/60Hz <1.5A>

⚠ WARNING Always check the rating plate on the machine before connecting the power.

Weight	Approx. 233lbs. (106kg)
Dimensions (WxDxH)	In use : 51" x 27 ³ / ₈ "x 25" (1,300 x 695 x 635 mm) In storage : 29" x 27 ³ / ₈ " x 25" (735 x 695 x 635 mm)

Interface Specifications

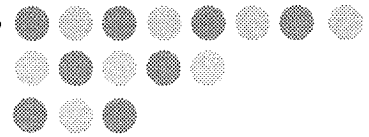
CPU	SH-3 (133 MHz)
Available PDL	RISORINC3
Applicable OS	Windows95/98, WindowsNT4.0 and Mac OS*
Available Input Port	- Parallel (IEEE1284A Centronics) - Serial (RS-232C) for communication devices - Ethernet (10BASE-T/100BASE-TX)*
Memory	16MB

* The optional Network Interface Card RISORINC-NET-B is required to use the RN25 series as a network printer in LAN (Local Area Network) or to connect with Macintosh.

NOTE The specifications are subject to change without prior notice. Please acknowledge that the illustrations and descriptions in this manual may differ from the actual machine, due to the change in specifications. This

Specifications

- RN2550



Processing	High-speed automatic digital scanning/fully automatic, thermal screening duplicating system
Time to First Copy	Letter or A4 original : approx. 16 sec.
Print Speed	5 selectable print speeds (60 to 130 sheets/min.)
Scanning Resolution	400 x 400dpi
Original Input Type	Bound documents or sheets
Original Size	- For the Stage Glass - 2" x 3 1/2"(50 x 90 mm) to 11 5/8" x 17"(Ledger, A3, or 297 x 432 mm) - In the optional ADF Unit - 3 1/2" x 5 1/2"(A6 or 90 x 140 mm) to 11 5/8" x 17"(Ledger, A3, or 297 x 432 mm)
Output Paper Size	3 1/2" x 5 1/2"(90 x 140 mm) to 11 3/8" x 15 1/2"(290 x 395 mm)
Original Weight	- For the Stage Glass - 22lbs. (10kg) or less - In the optional ADF Unit - 14-lb bond (50g/m ²) to 28-lb bond (110g/m ²)
Output Paper Weight	13-lb bond (46g/m ²) to 110-lb index stock (210g/m ²)
Image Area	10" x 14"(251 x 357 mm)
Paper Capacity	1000 sheets in feed and receiving tray
Enlargement Parameters	141%, 122%, 116%
Reduction Parameters	61%, 71%, 82%, 87%
Zooming Parameters	50% to 200%
Print Colors	A wide range of colors including : Black, Blue, Red, Green, Brown, Yellow, etc.
Optional Accessories	Color Cylinder (Drum), ADF Unit VI, Digitizer V, Job Separator IV, Key/Card Counter IV, Sorter TM2500, Sorter TM5000, Special Paper Feed Kit, Document Memory Card DMC-32 and Network Interface Card.
Power Source (Requirements)	RN2550AW : 220-240V AC, 50/60Hz <1.5A> RN2550AN : 110V AC, 60Hz <3.0A>
	⚠ WARNING Always check the rating plate on the machine before connecting the power.
Weight	Approx. 233lbs. (106kg)
Dimensions (WxDxH)	In use : 51" x 27 3/8" x 25" (1,300 x 695 x 635 mm) In storage : 29" x 27 3/8" x 25" (735 x 695 x 635 mm)

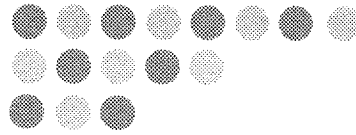
Interface Specifications

CPU	SH-3 (133 MHz)
Available PDL	RISORINC3
Applicable OS	Windows95/98, WindowsNT4.0 and Mac OS*
Available Input Port	- Parallel (IEEE1284A Centronics) - Serial (RS-232C) for communication devices - Ethernet (10BASE-T/100BASE-TX)*
Memory	16MB

* The optional Network Interface Card RISORINC-NET-B is required to use the RN25 series as a network printer in LAN (Local Area Network) or to connect with Macintosh.

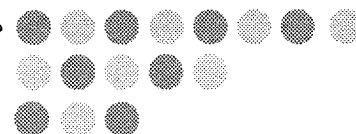
NOTE The specifications are subject to change without prior notice. Please acknowledge that the illustrations and descriptions in this manual may differ from the actual machine, due to the change in specifications.

Features



	RN2530	RN2550
Direct-touch-control Display	√	√
Dot-screening	√	√
Print Speed / Density Control	√	√
Auto Scanning Contrast Adjustment	√	√
Photo Enhancement	√	√
Duo Processing	√	√
Bound Book Processing	√	√
Confidential Mode	√	√
Energy Saving Mode	√	√
Automatic Idling	√	√
Auto Process	√	√
Multi-up Printing	√	√
Programmed Printing	√	√
Print Job Memory Mode	√	√
Mirror Image Print	√	√
Master Renewal	√	√
Integral Computer Interface	√	√
Network Capability	Optional	Optional
Remote Data Reception	Optional	Optional
Document Data Memory	Optional	Optional

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Symbols and Numerals

* Key 12,58,119,121,122,123,131,134

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FCC Warning - For RN2530UI Models Only

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING – For RN2550AW Models Only

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING

The Back Light Tube of the LCD of the Control Panel on this model contains mercury which must be recycled or disposed of as hazardous waste.

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Welcome to the RISO RN Series Model





Thank you for purchasing a RISO RN series model, which combines the clear reproduction of a printing machine with the convenient functions of a copier, keeping the operation sound as low as possible.

With its large-sized direct-touch-control LCD and dialog messages, this equipment has been specially designed for simple operation.

About This User's Guide

This guide provides all information necessary to use your RISO RN series model. It is designed to help you take advantage of the features built into your RISO RN series model, and provides information on maintenance and troubleshooting.

[Pictorial Guide]

	⇒ Original		⇒ Functions used in the Copy mode
	⇒ Printed copy		⇒ Functions used in the Data mode

Operation Instruction
Describes operation procedures with simple numbered steps.

Advice Remark
Gives you helpful advice for trouble-free operation under the following heads:


NOTE
Important!

Cross-reference Remark
Indicates other sections of the User's Guide where you can find related descriptions.

Basic Procedure

- 1 Turn the power switch ON.**

The power switch is located on the lower right of the machine.



NOTE When you RISO Print is sleeping in the Energy saving mode, the indicator on the Main Display lights up. In this case, press the Wake Up key to wake up your RISO Printer.
→ p. 142
- 2 Check the settings on the control panel.**

When the power is connected, the Main Display and control panel indicators show the initial settings.

Make sure necessary settings, such as registration axis and parking mode.

Holding down the Reset key longer than one second returns the control panel to the initial settings.

NOTE When the message "Processing Data" appears on the Main Display, it indicates that document data have already been received from the computer and are being processed in the system of the machine. In normal operation, the copy job in the Controller does not start until a few minutes. If it is not required to proceed with the original directly, wait until the page job finishes.
- 3 Place an original on the Stage Glass or its optional AD2 lift.**

If placing originals on the Stage Glass, open the Stage Cover and place an original face down. Position the original according to the indicators on the left margin of the glass. Close the cover, making a gentle on the original.

If placing originals on the optional AD2 lift, adjust the AD2 Original Feeder. Then set the AD2 Original Feeder to the width of the original. Then place the original face down on the AD2 lift. The originals are automatically fed and set in place.

NOTE A maximum of 50 originals can be set on the glass on the AD2 lift at one time.

Caution Do not force the cover down too fast or a sound signal played on the Stage Glass.

NOTE When an original is placed, the screen automatically changes to main menu (step 4). The "Ready to Make" message appears in the Main Display.
- 4 Press The Start key.**

After an original is connected, a message is received. A sample is automatically printed to allow you to check the page quality, position and density.

→ p. 64 - To change the position of the printed image, adjust the Start Position.
→ p. 65 - To change the page density of the print, change the print density setting.

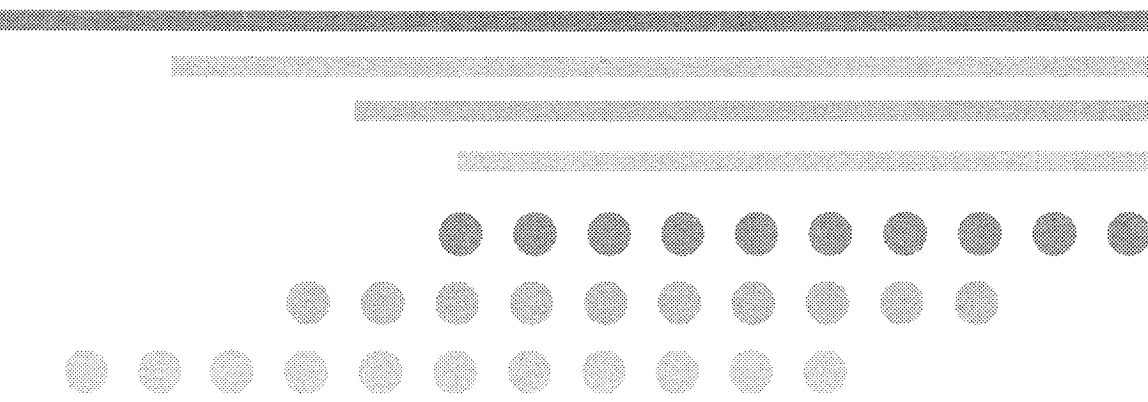
If settings are changed, press the Test Print key to check the result with sample print.

Panel Highlight
Indicates the key and/or indicator to be used or referred to during operation.

Safety Remark
Gives you safety instructions under the following icons:



Main Display Frame
Indicates the message to be displayed in relation to an instructed operation.



Introduction to Your RISO Printer

.....
This section provides the basic information about your RISO Printer, including initial installation and names of parts.

Safety Guides - Installation	8
Knowing the Parts and Components	10
The Control Panel	12
The Main Display	14



Safety Guides -Installation

This section explains the precautions you have to observe when installing your RISO Printer. Read this section before installing your RISO Printer.

NOTE ▶ Your dealer will help you to determine a proper location for your unit at the time of delivery.

Installation

WARNING

- Do not place water containers or metallic objects on the unit. If water drips inside the unit or a metallic object drops inside it, it can result in a fire or an electric shock.

Caution

- Install the unit near the electrical outlet to avoid using an extension cord between the unit and the electrical outlet.
If an extension cord is unavoidable, do not use one longer than 15 ft. (5 m).
- Place the unit on a flat and stable surface (maximum of 3/8 inches (10 mm) differential allowed). Injury might occur if the unit falls.
- Do not place heavy objects on the unit. The objects might fall and cause injury.
- Keep the unit away from dusty or humid areas. Otherwise, a fire or an electric shock might occur.
- Unplug the power cord before moving the unit. Otherwise, the power cord might be damaged and a fire or an electric shock might occur.

Important!

- Avoid installing your RISO Printer in the locations listed below. Failure to observe this precaution may lead to machine failure or human injury.
 - Extremely bright locations such as locations close to windows or locations that are exposed to direct sunlight (provide a curtain if you have no choice but to install your RISO Printer in such a location)
 - Locations that are subject to sudden temperature change
 - Extremely hot and humid locations or cold and dry locations
 - Heated locations
 - Locations exposed to direct cold air, direct hot air, or direct radiant heat
 - Badly ventilated locations
 - Locations where it is impossible to provide a clearance of 4 inches (10 cm) or wider behind your RISO Printer

Power Connection

⚠ WARNING

- Do not overload an electrical outlet or extension cord, nor damage the power cord by placing heavy objects on it or pulling or bending it. Otherwise, a fire or an electric shock might occur.
- Do not plug or unplug the power cord if your hands are wet. Otherwise, an electric shock might occur.



⚠ Caution

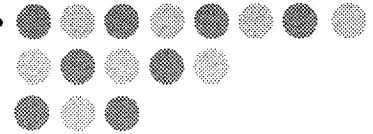
- Do not pull the power cord but hold the plug itself when unplugging it. Otherwise, it could become damaged and a fire or an electric shock might occur.
- Pull out the power plug from the electrical outlet more than once a year and clean the teeth of the plug and their surroundings. If dust piles on them, a fire might occur.



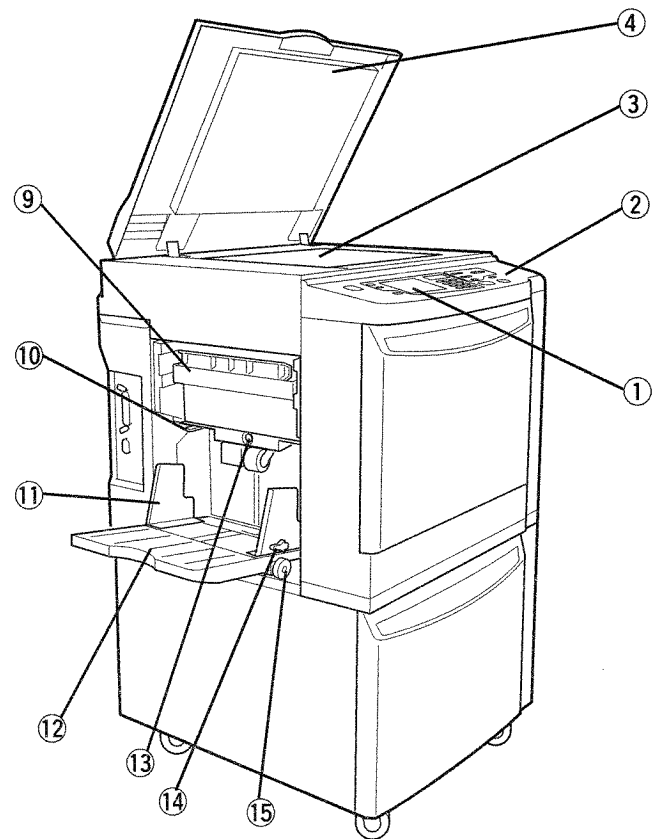
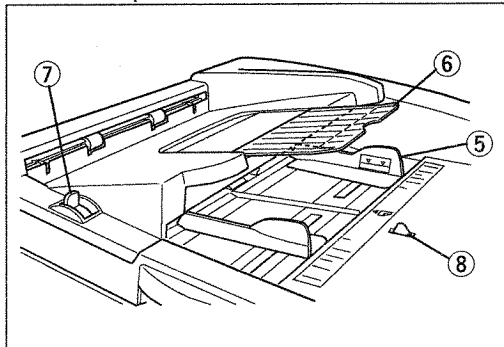
Important!

- Check the power plug for poor connections. Plug the power cord securely into a nearby electrical outlet.
- Be sure to turn off the POWER switch when connecting or disconnecting a cable.

Knowing the Parts and Components



=With the optional ADF Unit=



Upper Area

- ① **Main Display** (☞ p.14)
- ② **Control Panel** (☞ p.12)
- ③ **Stage Glass** (☞ p.159)
- ④ **Stage Cover** (☞ p.159)
Secures the original placed on the Stage Glass.

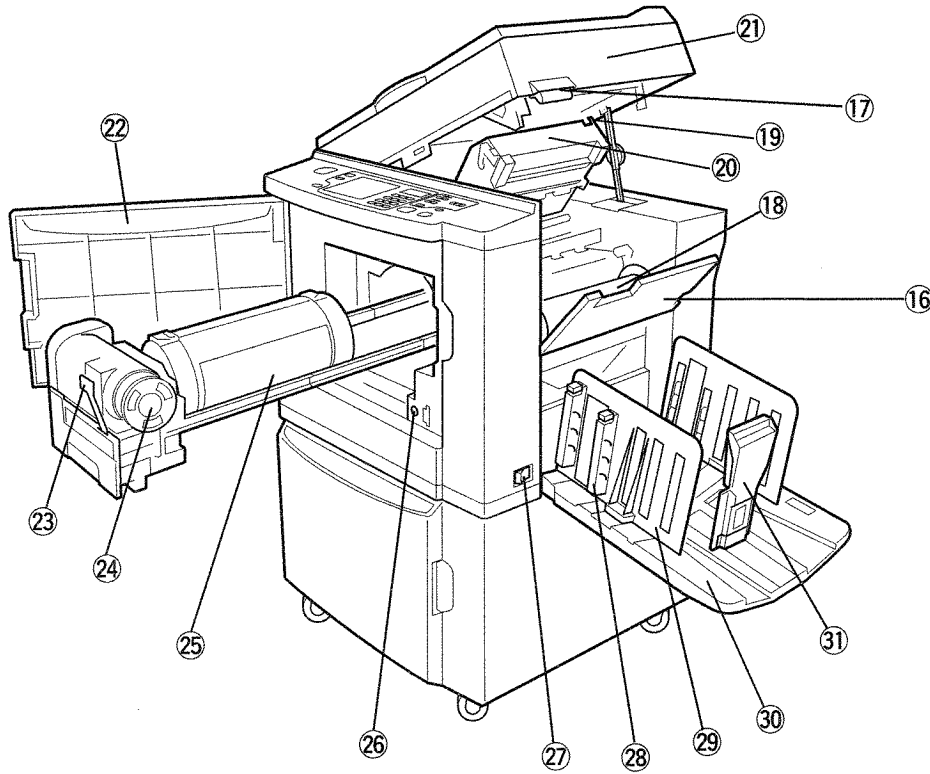
=With the optional ADF Unit=

- ⑤ **ADF Original Guide**
Holds and guides originals in the ADF Unit.
- ⑥ **ADF Original Receiving Tray**
Receives originals after scanning in the ADF Unit.
- ⑦ **ADF Original Release Lever**
Releases the original fed in the ADF Unit for removal or realignment.
- ⑧ **Original Size Sensor**

Paper Feed Area

- ⑨ **Master Disposal Box** (☞ p.152)
Holds discarded masters.
- ⑩ **Paper Feed Pressure Adjustment Lever** (☞ p.20)
Adjusts the paper feed pressure according to the paper being used.
- ⑪ **Feed Tray Paper Guide** (☞ p.20)
Holds and guides paper.
- ⑫ **Standard Paper Feed Tray** (☞ p.20)
- ⑬ **Feed Tray Descent Button** (☞ p.20)
Lowers the Standard Paper Feed Tray for replacing or adding printing paper.
- ⑭ **Feed Tray Paper Guide Lock Lever** (☞ p.20)
Locks the Feed Tray Paper Guide.
- ⑮ **Horizontal Print Position Adjustment Dial** (☞ p.65)
Moves the print position to the left or right.

Knowing the Parts and Components



Master-Making Area

- ①⑥ **Master Roll Cover** (see p.149)
Protects the Master Roll.
- ①⑦ **Scanner Table Release Lever** (see p.149)
Unlocks and opens the Scanner Table.
- ①⑧ **Master Roll** (see p.149)
- ①⑨ **Master Making Unit Release Lever**
(see p.149)
Opens the Master Making Unit.
- ②⑦ **Master Making Unit** (see p.149)
Makes a master.
- ②① **Scanner Table** (see p.149)

Front Area

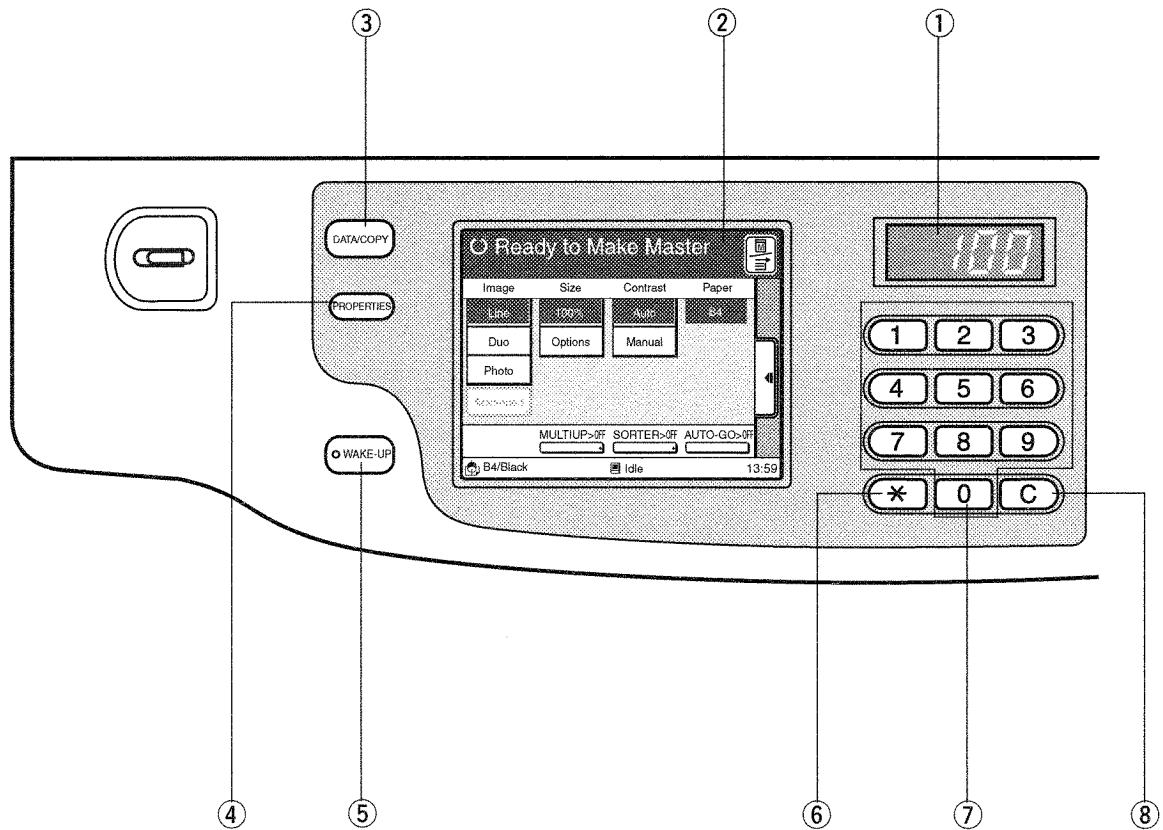
- ②② **Front Cover**
- ②③ **Ink Cartridge Locking Lever** (see p.146)
Secures the Ink Cartridge in position.
- ②④ **Ink Cartridge** (see p.146)

- ②⑤ **Print Cylinder (Drum)** (see p.153)
- ②⑥ **Print Cylinder (Drum) Release Button**
(see p.153)
Positions and unlocks the Print Cylinder (Drum) for removal.
- ②⑦ **Main Power Switch** (see p.26, 32)

Paper Receiving Area

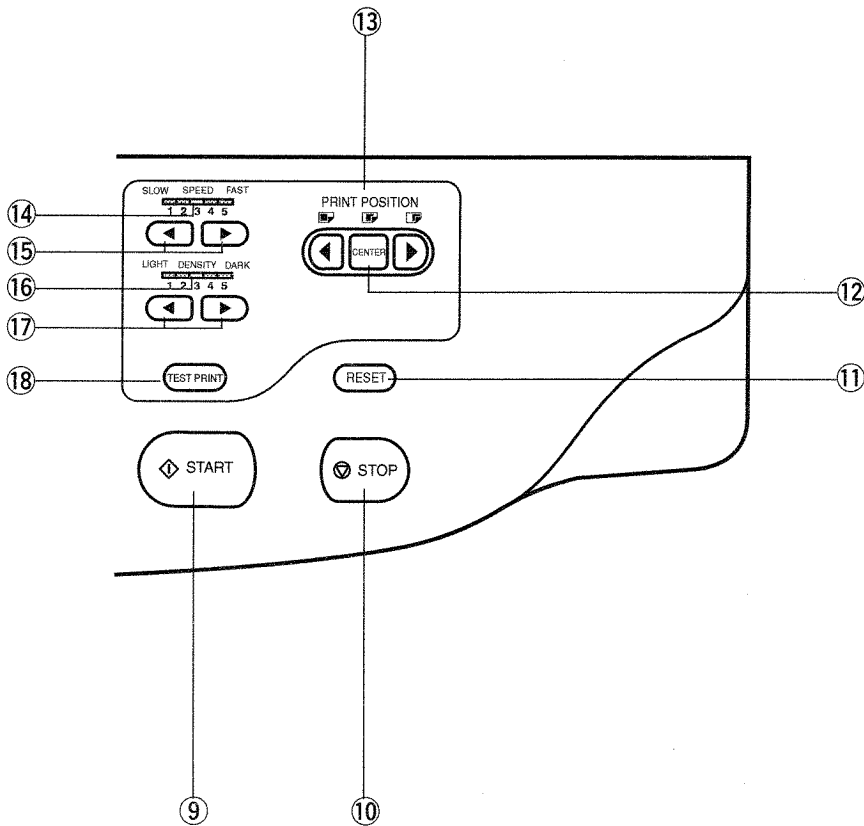
- ②⑧ **Paper Arranger** (see p.21)
- ②⑨ **Receiving Tray Paper Guide** (see p.21)
Aligns printed paper neatly.
- ③⑦ **Paper Receiving Tray** (see p.21)
- ③① **Paper Stop** (see p.22)
Stops printed paper ejected into the Paper Receiving Tray.

The Control Panel



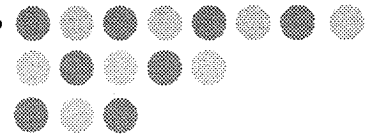
- ① **Print Quantity Display**
Counts the number of printed copies.
- ② **Main Display**
Shows the current equipment status or gives instructions for operation.
- ③ **Data Source Selection Key**
Switches the mode between [Data mode] and [Copy mode] when interfacing with a PC.
- ④ **Properties Key**
Shows the current settings on the Main Display.
- ⑤ **Wake-Up Key**
Wakes up the printer in Energy Saving mode.
- ⑥ *** Key**
Shifts the cursor on the Main Display.
- ⑦ **Print Quantity Keys (0 to 9 Keys)**
Use these keys to enter the number of copies to be printed, or to enter other numeric values.
- ⑧ **C Key**
Cancels the number entered and resets the Print Quantity Display to zero. Or deletes a word in naming programmed items.

The Control Panel



- 9 Start Key**
Starts printing or master-making process. The indicator is "GREEN" when the key is active. This key is also used to resume operation after troubleshooting.
- 10 Stop Key**
Interrupts printing or other ongoing operations.
- 11 Reset Key**
Returns all settings to initial status.
- 12 Print Position Center Key (☞ p.64)**
Moves print position back to center.
- 13 Vertical Print Position Adjustment Keys (☞ p.64)**
Adjust vertical print position.
- 14 Print Speed Indicator (☞ p.62)**
Shows the selected print speed.
- 15 Print Speed Adjustment Keys (☞ p.62)**
Adjust print speed (on a 1 to 5 scale).
- 16 Print Density Indicator (☞ p.63)**
Shows the selected print density.
- 17 Print Density Adjustment Keys (☞ p.63)**
Adjust print density (on a 1 to 5 scale).
- 18 Test Print Key (☞ p.67)**
Prints a sample from the current master to allow you to check print quality and printing position.

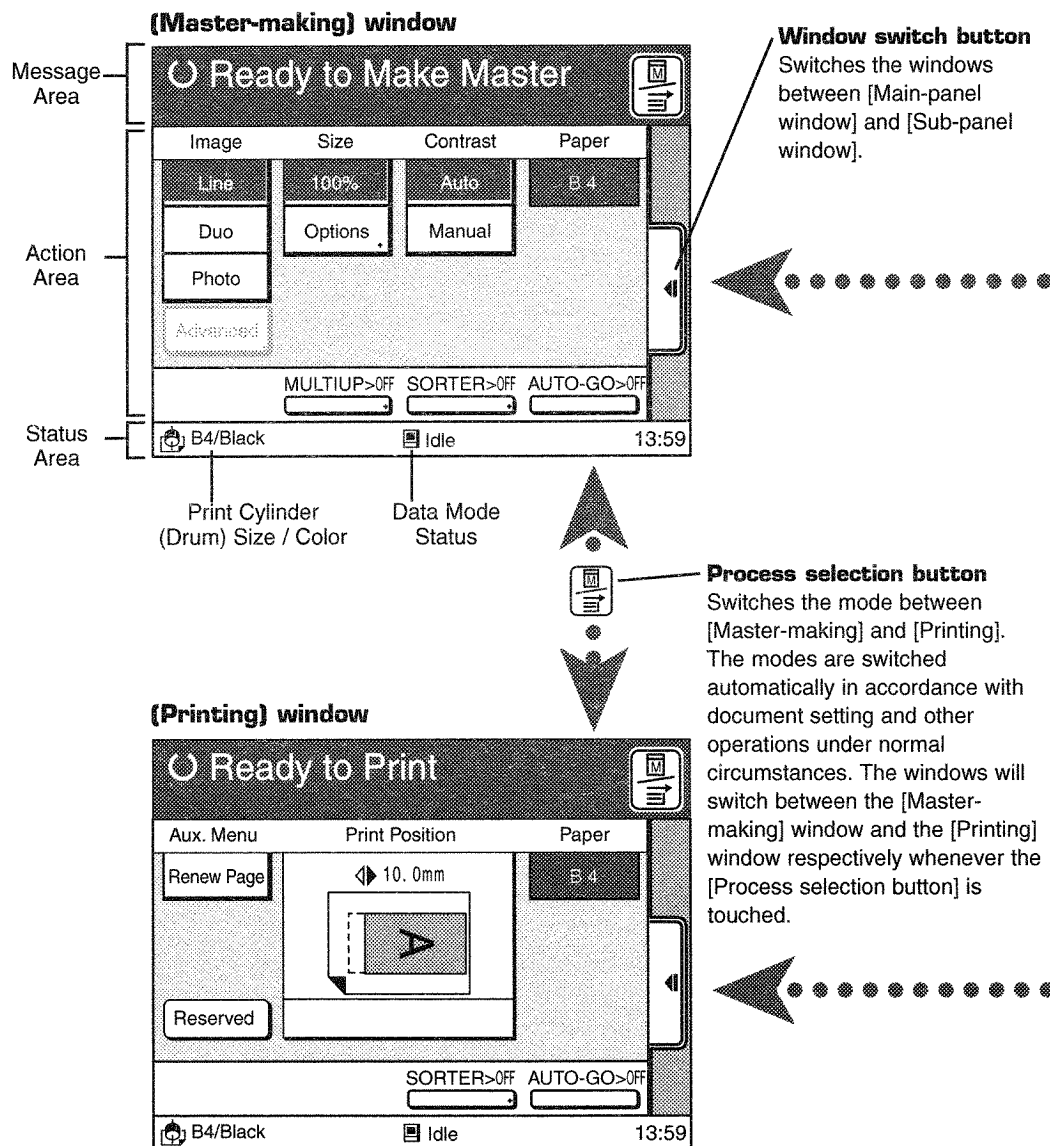
The Main Display



In the Main Display, various windows appear according to the current operation as illustrated below. Among them, the Main-panel window acts as the home of the multi-window guidance display, indicating the current printer configuration and status.

Main-panel window

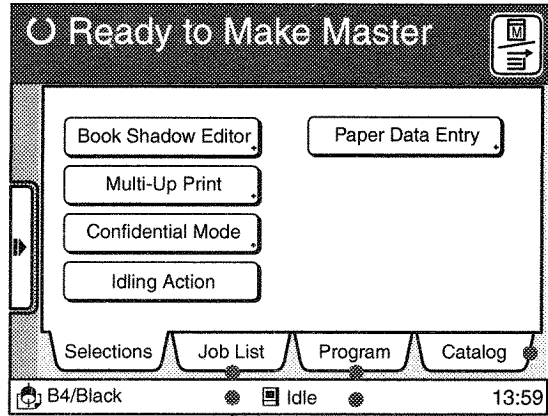
Main-panel window consists of the [Master-making] window and [Printing] window and enables you to make basic operations such as master-making and printing.



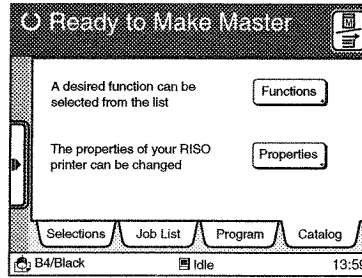
Sub-panel window

Sub-panel window consists of four tabs and enables you to make various advanced settings. You can bring the desired tab to the front by touching it.

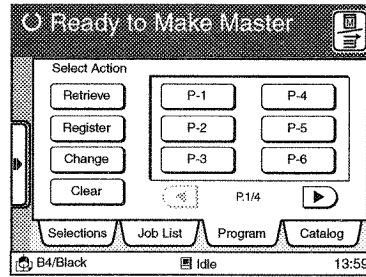
[Selections] tab



[Catalog] tab



[Program] tab

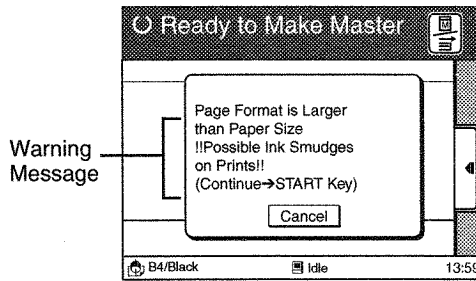
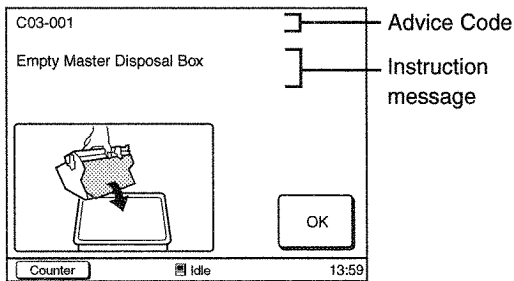


[Job List] tab



Advice windows

Advice windows show you error messages or warning messages when an error occurs. Take appropriate measures referring to these messages.



NOTE Refer to [Troubleshooting] for further details when trouble arises. p.161... Troubleshooting



Getting Ready to Use Your RISO Printer

.....
This section describes how to set your RISO Printer for initial use, with basic information on printing paper and originals.

Paper Recommendations	18
Originals	19
Preparing to Print	20

Paper Recommendations

Size and Weight Restrictions

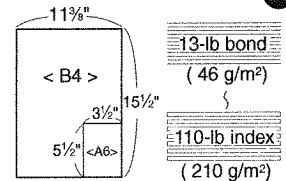
Usable printing paper is as follows:

Size: Max. 11³/₁₆" × 15¹/₂" (290 mm × 395 mm) Weight: Max. 110-lb index (210 g/m²)
Min. 3¹/₂" × 5¹/₂" (90 mm × 140 mm) Min. 13-lb bond (46 g/m²)

The maximum printing area is as follows:

RN2530: 8¹/₄" × 14" (210 mm × 357 mm)

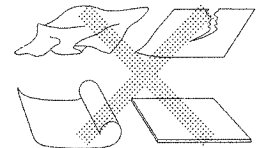
RN2550: 10" × 14" (251 mm × 357 mm)



Important!

Do not use the following types of paper, as they can cause jams or misfeeds:

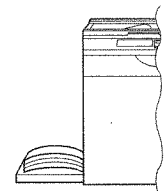
- Extremely thin paper (less than 13-lb bond, or 46 g/m²)
- Extremely thick or heavy paper (greater than 110-lb index, or 210 g/m²)
- Wrinkled, curled, folded, or torn paper
- Chemically treated or coated paper (such as thermal or carbon paper)



Guides for Trouble-Free Use

To prevent paper jams and misfeeds, follow the directions below:

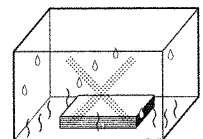
- When using standard paper, set the Paper Feed Pressure Adjustment Lever to "NORMAL", and open all four Paper Arrangers. [p.20-21](#)
- When using thick paper (such as card stock), set the Paper Feed Pressure Adjustment Lever to "CARD", and open the two inner Paper Arrangers. [p.20-21](#)
- When using light-weight paper, set the Paper Feed Pressure Adjustment Lever to "NORMAL", and open all four Paper Arrangers. [p.20-21](#)
- When using slippery paper, set the Paper Feed Pressure Adjustment Lever to "CARD". [p.20](#)
- Slide the Feed Tray Paper Guides, Receiving Tray Paper Guides, and Paper Stop to fit the paper size. [p.20-22](#)
- Use flat printing paper that is free of folds. If curled paper is unavoidable, place the printing paper so that the curl faces down.
- Paper may stick to the Cylinder (Drum) surface if the top margin is too narrow on the original or if the upper portion of the original uses a large amount of ink. To solve this problem, lower the print position to provide a wider top margin or reverse the top and bottom of the original. Then restart printing from the beginning. [p.64](#)



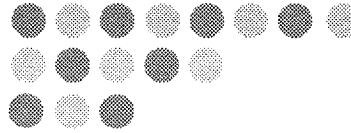
Storing Environment

Store printing paper in a level, dry area. Storing the paper in an excessively humid area could cause paper jams as well as poor print quality.

After unpacking printing paper, keep the remaining paper wrapped and store it in a moisture-proof box. It is highly recommended to put silica gel in the paper storage box.



Originals



Size and Weight Restrictions

Using the Stage Glass

The Stage Glass can be used to print from bound originals or sheet originals.

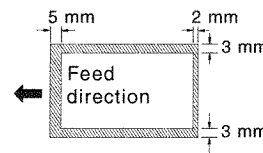
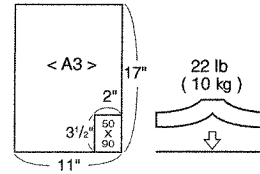
Usable originals are as follows:

Size: Max. A3 (297 mm × 420 mm) or Ledger (11" × 17")
Min. 2" × 3½" (50 mm × 90 mm)

Weight: Max. 22-lb (10 kg)

The margins indicated on the figure to the right are required for the original.

Reduce the original if necessary to fit it inside these margins.



- NOTE**
- If an original is wrinkled, curled, or creased, flatten it thoroughly so that the originals can be pressed directly onto the Stage Glass during processing.
 - If correction fluid or glue is used on an original, thoroughly dry it before you place the original on the Stage Glass.

Using the Optional ADF

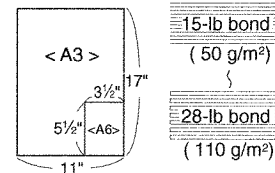
You can use the optional ADF (Automatic Document Feeder) to feed automatically up to 50 original sheets.

Usable original sheets are as follows:

Size: Max. A3 (297 mm × 420 mm) or Ledger (11" × 17")
Min. 3½" × 5½" (90 mm × 140 mm)

Weight: Max. 28-lb bond (110 g/m²)

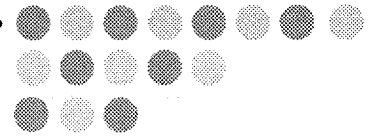
Min. 15-lb bond (50 g/m²)



NOTE Use the Stage Glass when printing the following originals:

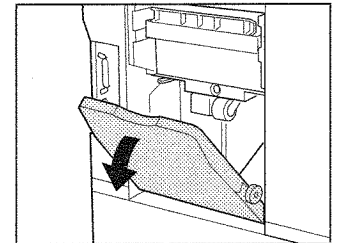
- Patched or worn originals
- Wrinkled, curled, folded, or torn originals
- Transparent originals (such as tracing paper or OHP transparencies)
- Chemically treated originals (such as thermal or carbon paper)
- Originals with correction fluid or glue
- Extremely thin originals (less than 15-lb bond (50 g/m²))
- Extremely thick originals (greater than 28-lb bond (110 g/m²))
- Heavy drawing paper
- Bound originals
- Originals with staples or clips

Preparing to Print



Setting Up the Paper Feed Tray

1 Open the Paper Feed Tray.

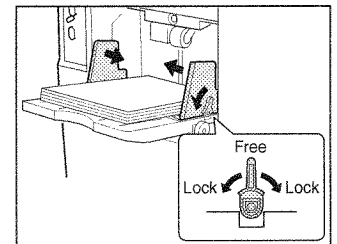


2 Load printing paper and slide the Feed Tray Paper Guides to fit the paper width.

Push down the Feed Tray Paper Guide Lock Levers to lock the guides.

Important!

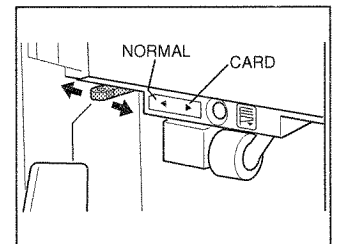
Do not mix printing paper of different sizes.



3 Set the paper feed pressure.

Position the Paper Feed Pressure Adjustment Lever at either "NORMAL" or "CARD," according to the paper to be used.

- NORMAL Standard paper
- CARD Thick paper such as card stock



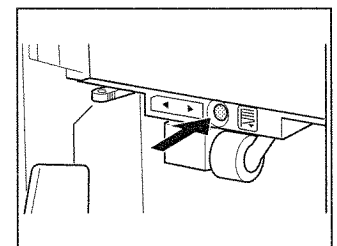
Adding or Replacing Paper

If you want to add paper or use paper of different size, lower the Paper Feed Tray so that you can load the paper easily.

When the Feed Tray Descent Button is pressed lightly, the Paper Feed Tray lowers to the bottom. When you keep on pressing it on the other hand, the tray stops immediately when you release it.

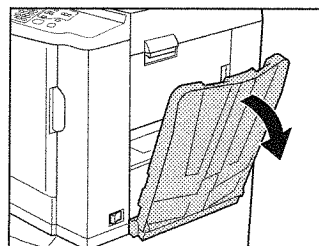
Important!

Do not mix different paper sizes in the Paper Feed Tray.



Setting Up the Paper Receiving Tray

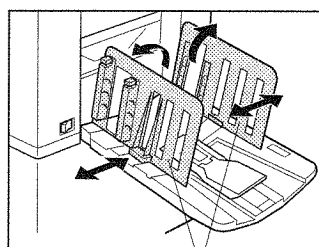
1 Open the Paper Receiving Tray.



2 Raise and slide the Receiving Tray Paper Guides to fit the paper width.

Holding the Receiving Tray Paper Guide Adjustment Knob, slide the guides.

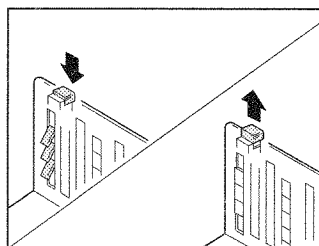
- NOTE**
- For thick paper, set the guides a little wider than the actual paper width.
 - When you change the horizontal print position, adjust the position of the Receiving Tray Paper Guides as well.



Receiving Tray Paper Guides

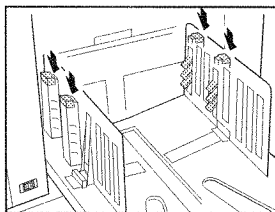
3 Adjust the Paper Arrangers.

Select the best combination of Paper Arranger settings, referring to the following instruction.



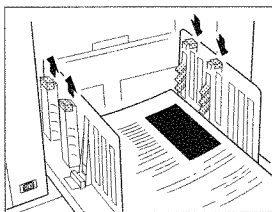
NOTE = How to Set Paper Arrangers =

• Ordinary paper



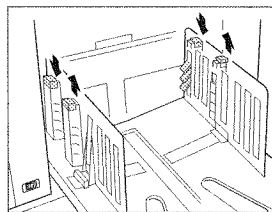
Open all four Paper Arrangers.

• Ordinary paper with images lopsided on page



Open two Paper Arrangers on the more heavily printed side.

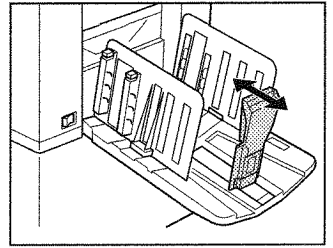
• Thick paper

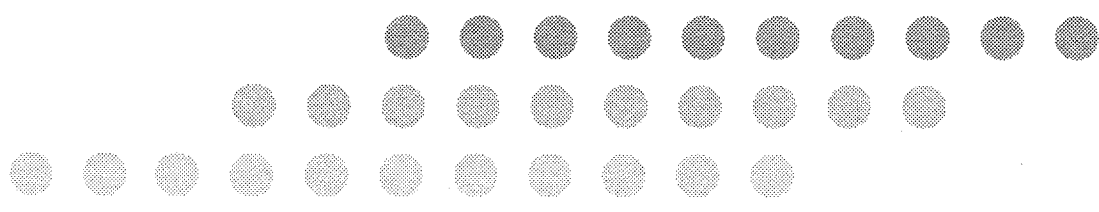


Open two Paper Arrangers closest to the machine.

Preparing to Print

- 4** Raise and slide the Paper Stop to fit paper length.



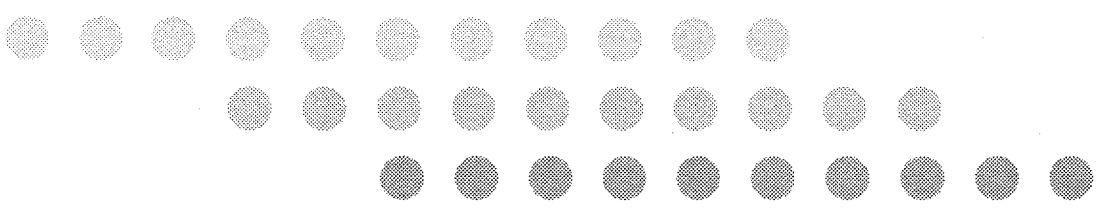


Basic Operation



This section describes the basic operation procedures in the copy mode.

Safety Guides - Handling and Operation	24
Basic Processes	25
Basic Procedure	26



Safety Guides

- Handling and Operation

This section describes the precautions to be observed when handling your RISO Printer. Read this section before operating your RISO Printer.

Operation Environment

Important!

- Operate the unit under the following appropriate environment conditions.
Temperature range: 59°F to 86°F (15°C to 30°C)
Humidity range: 40% to 70% (noncondensing)



Handling Precautions

⚠ WARNING

- Do not insert or drop any metallic material or flammable substance into this unit through any opening. Otherwise, a fire or an electric shock might occur.
- Do not remove the covers. Otherwise, you might be electrically shocked by the high-voltage parts inside.
- Do not disassemble or rebuild this unit by yourself. Otherwise, a fire or an electric shock might occur.
- If this unit gets uncomfortably hot, smokes or smells bad, immediately turn off the power, unplug the electrical (power) cord and contact your service representative because a fire or an electric shock might occur.
- If something drops inside this unit, turn off the power switch first, then unplug the electrical (power) cord and contact your service representative. If you continue using it, a fire or an electric shock might occur.
- Never stick your hands or fingers in the openings around the Paper Feed Tray and the Paper Receiving Tray during operation.
- Keep loose clothing or long hair away from moving parts to avoid becoming entangled.
- Before cleaning any part of this unit, turn off the power.

⚠ Caution

- Do not open any covers or move this unit during operation.
- Unplug the electrical (power) cord, if you do not use this unit for a long time.

Important!

- Do not unplug the electrical (power) cord or turn off the power during operation.
- Be sure to open and close any cover gently.
- Do not place heavy objects on or apply shocks to this unit.
- This unit has precision parts and driving parts inside. Do not handle this unit in other ways than described in this guide.
- Contact your local service representative before moving this unit.

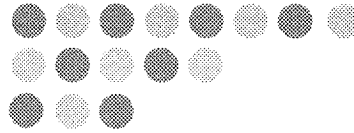
⚠ Caution - Handling of Ink

- If ink gets into your eyes, flush it out immediately with plenty of water.
- If ink comes into contact with your skin, wash it off thoroughly using soap.
- Allow plenty of ventilation during printing.
- If you feel unwell during use, seek medical advice.
- Only use the ink for printing purposes.
- Keep the ink out of the reach of children.

Important! - Materials Not to Be Printed

Remember not to infringe copyrights or violate laws when using the equipment, even during personal use. Consult your local authorities for further details. In general, use discretion and common sense.

Basic Processes

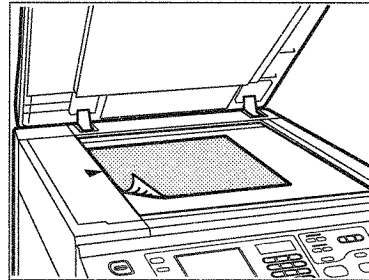


The basic processes of your RISO Printer can be divided into two stages: making a master of an original/PC data (master-making), and then printing copies from the master. Your RISO Printer has been designed so that these two processes flow smoothly from one to the other, with the current action shown clearly in the display.

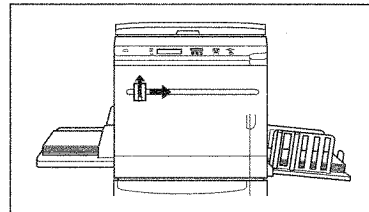
Master-Making

When you create a master, an original is scanned. The master is imaged and then automatically placed on the Print Cylinder (Drum).

1 Set an original in place.



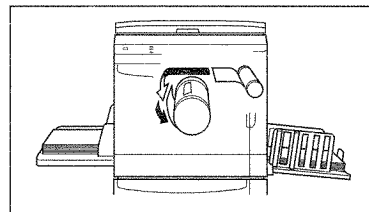
2 Scan the original.



3 Create a master.

The master is placed on the Print Cylinder (Drum) and a proof copy is produced.

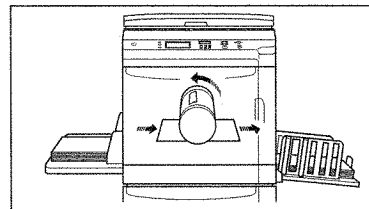
NOTE When document data is sent from a PC to your RISO Printer, the first 2 steps (original scanning) are skipped.



Printing

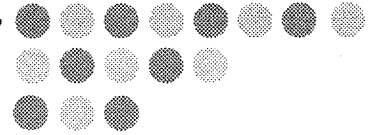
When you print, the Print Cylinder (Drum) rotates to print the specified number of copies.

4 Enter the number of copies you want.



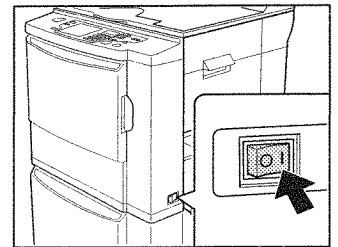
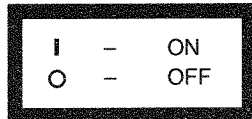
5 Start printing.

Basic Procedure

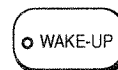


1 Turn the power switch ON.

The power switch is located on the lower right side of the machine.



NOTE When your RISO Printer is sleeping in the Energy saving mode, the indicator on the Wake-Up key lights. In this case, press the Wake-Up key to wake up your RISO Printer.

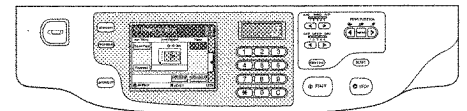


☞ p.142 .. Energy Saving Mode

2 Check the settings on the control panel.

When the power is connected, the Main Display and control panel indicators show the initial settings.

Make any necessary changes, such as reproduction size and processing mode.



Holding down the Reset key longer than one second returns the control panel to the initial settings.

NOTE When the message "Processing Data" appears on the Main Display, it indicates that document data have already been received from the computer and are being processed in the system of the machine. In normal operation, the print job of this document data will start within a few minutes. If it is not required to proceed with your original urgently, wait until this print job finishes.

3 Place an original on the Stage Glass or in the optional ADF Unit.

- If placing originals on the Stage Glass, open the Stage Cover and place an original face down. Position the original according to the indicators on the left-hand side of the glass. Close the cover, resting it gently on the original.
- If placing originals in the optional ADF Unit, open the ADF Original Receiving Tray and adjust the ADF Original Guides to the width of the originals. Then place the originals face down in the ADF Unit. The originals are automatically fed and set into place.

NOTE A maximum of 50 originals can be set into place on the ADF Tray at one time.

Caution Do not force the cover down on top of a bound original placed on the Stage Glass.

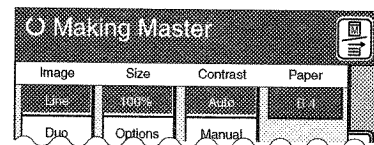
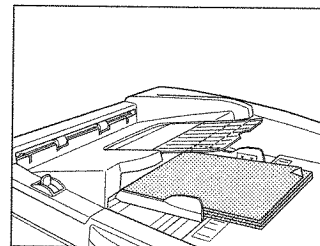
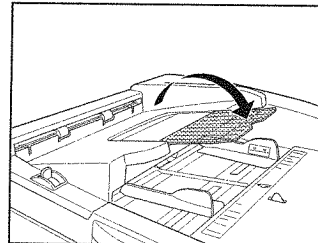
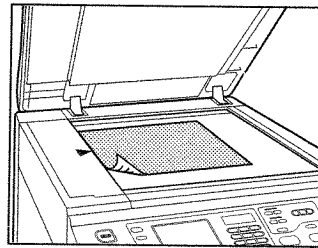
NOTE When an original is in place, the process automatically changes to master-making from printing. The "Ready to Make Master" message appears in the Main Display.

4 Press the Start key.

After an original is scanned, a master is created. A sample is automatically printed to allow you to check the print quality, position and density.

- ☞ **p.64** .. To change the position of the printed image, press the Print Position Adjustment keys on the control panel.
- ☞ **p.63** .. To change the print density of the printed copies, change the print density setting.

If settings are changed, press the Test Print key to check the results with sample prints.

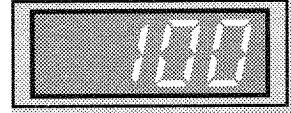
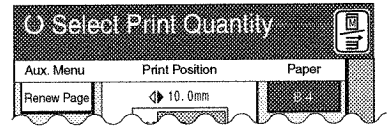
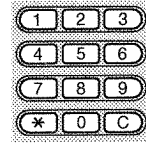


Basic Procedure

5 Enter the number of copies to be printed.

Specify the number of copies to be printed using the Print Quantity keys; the number is displayed in the Print Quantity Display.

NOTE If you enter a number incorrectly, press the C key to reset the Print Quantity Display to zero, then enter the correct number.

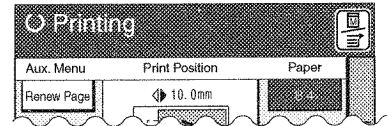


6 Press the Start key.

The specified number of copies is printed.

NOTE If printing stops and the "Add Paper" message appears in the Main Display, paper has run out in the Paper Feed Tray. Load paper into the tray.

p.62 .. To change the print speed, press the Print Speed Adjustment keys.



7 Press the Reset Key.

After printing has finished, press the Reset Key to restore the initial settings.

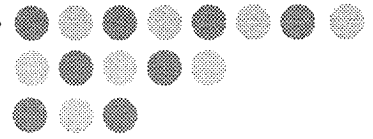


Computer Interface Guides

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This section describes various operation patterns and functions which are available for printing out the document files created on your computer in the Data mode.

Connecting to a Computer	30
Basic Interface Operation	32
Expanding Functions with the Document Memory Card	35
Changing the Data Mode Configuration	51

Connecting to a Computer



You can connect your RISO Printer to a computer in two ways, i.e. with direct cable connection (Local connection mode) and over the public telecommunication lines (Remote transmission mode).

For direct cable connection, the standard parallel port (IEEE 1284A) is provided on your RISO Printer.

For data transmission over the public telecommunication lines, on the other hand, the standard serial port (DB-9) is mounted there.

NOTE An extra network port can be added to enable the connection of standard Ethernet cables (10Base-T and 100Base-TX) by building the optional network interface card into your RISO Printer.

p.178

Using the Standard Printer Cable

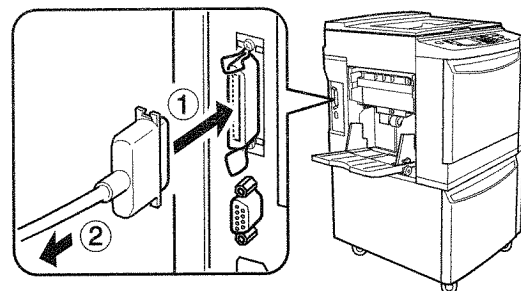
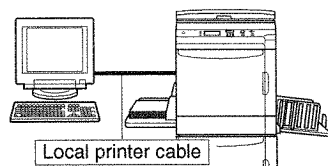
To print out the document file created on your Windows PC which is placed beside your RISO Printer, connect the standard parallel printer cable, IEEE 1284-compliant one, between the printer port of your computer and the parallel port of your RISO Printer.

With this connection, you will be able to send the document data created on your Windows PC directly to your RISO Printer.

In this case, you are required to select "Local connection" as communication mode.

Important!

- Always use a commercially available IEEE 1284-compliant printer cable.
- Be sure to turn off the personal computer and the RISO Printer when connecting the cable.
- The allowable maximum input / output voltage of the parallel port is 5 V.



- ① To the parallel port of your RISO Printer
- ② To the printer port of your Windows PC

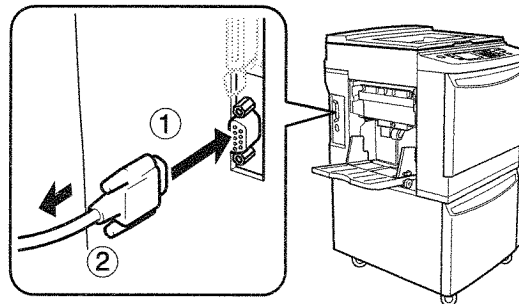
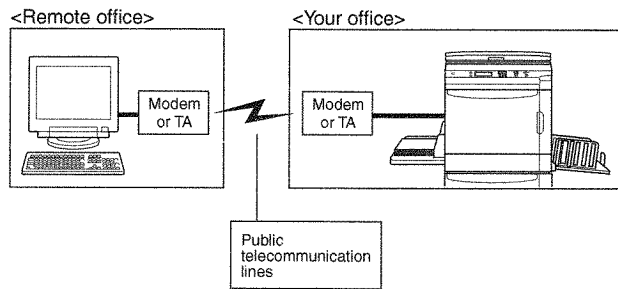
NOTE If you want to connect your RISO Printer to a Macintosh or use your RISO Printer in the LAN (Local area network) environment, you are required to install the optional network interface card into the RISO Printer and add the Ethernet network port (RJ45) to allow the connection of the 10Base-T or 100Base-TX Ethernet cable.

Using the Public Telecommunication Lines

To print out the document file sent from a remote location over the public telecommunication lines, connect the standard serial communication cable (RS-232C) between the modem (or terminal adapter) and the DB-9 serial port of your RISO Printer. With this connection, you will be able to receive the document data created on the computer in a remote location over the public telecommunication lines. In this case, you are required to select "Remote transmission" as communication mode on your RISO Printer.

Important!

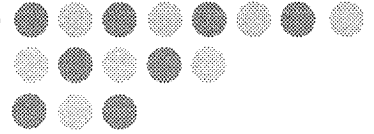
- This function is available only when the optional Document Memory Card DMC-32 is installed.
- Be sure to turn off the modem (or terminal adapter) and the RISO Printer when connecting the cable.
- The allowable maximum input / output voltage of the serial port is 12 V.
- Poor contact trouble may occur when a 9-pin-to-25-pin adapter is used for this connection.
- In some countries, this communication mode may not be available due to the unsuitable local telecommunication environment.



- ① To the serial port (DB-9) of your RISO Printer
- ② To the modem (or terminal adaptor)

NOTE To assist you to transmit the document data from the remote location to the RISO Printer, the dedicated communication utility software, RISORINC Manager, is included in the accessory software CD-ROM.

Basic Interface Operation



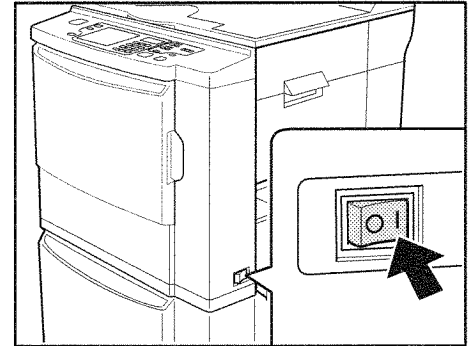
(Direct Printing)

This section explains the basic procedures for direct printing in the data mode.

1 Turn the power switch ON.

The power switch is located on the lower right side of the printer.

NOTE When your printer is sleeping in the Auto Sleep mode, the indicator on the Wake-Up key lights. In this case, press the Wake-Up key or send document data to wake up your printer.



2 Check the current paper size and print color.

If you require another size of paper and/or print color, replace paper on the Paper Feed Tray and/or the Print Cylinder (Drum).

☞ **p.20** ...Setting Up the Paper Feed Tray

☞ **p.153** ...Changing Print Color

Basic Interface Operation

3 Send the document data to the printer.

Using the dedicated printer driver or the communication utility software, send your selected document file from the computer to the printer. The printer processes the received document data according to the current mode configuration and the print conditions specified on the computer. If required, operate the control panel of the printer to finish your print job.

NOTE To interrupt operation, press the Stop key.

For detailed descriptions about the operation with the computer, consult the user's guides included in the accessory software CD-ROM or those of the related software.

NOTE The dedicated printer driver program, which is included in the accessory software CD-ROM, is required to be installed in the computer in advance.

You can change the print job flow specified when the current document data are sent to the printer according to the current print job requirements.

[Renew Page] button

Cancels the print job of the current page and starts to make another master for the current page.

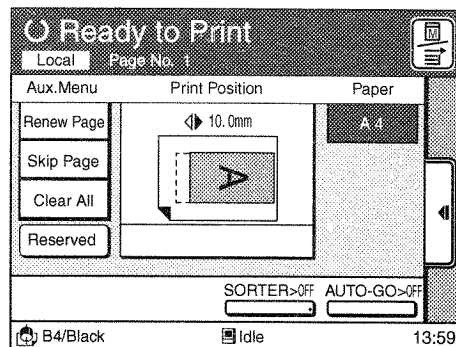
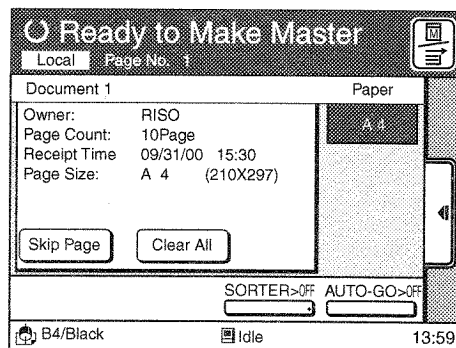
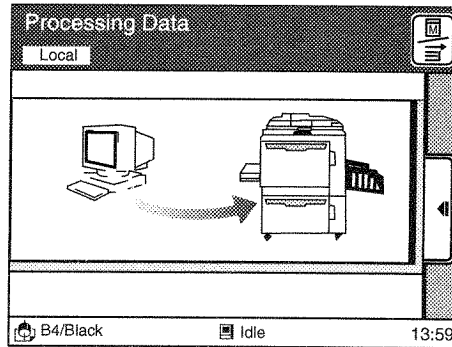
[Skip Page] button

Cancels the print job of the current page and starts to make a master for the following page.

[Clear All] button

Cancels the total print job of the multiple pages specified for the current document data.

Display transition pattern for the full automatic process operation in the Local connection mode.



Basic Interface Operation

Auto Process Function

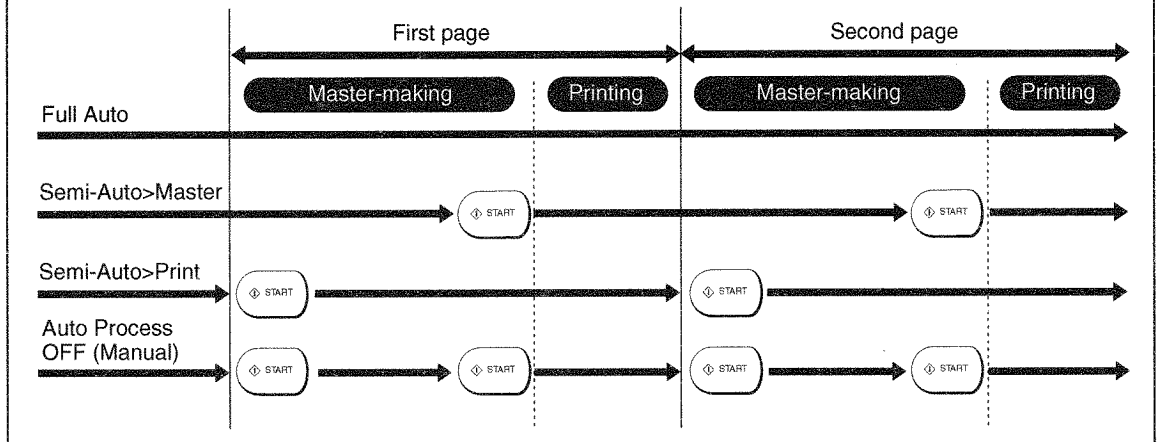
You can specify how to process print jobs in the Data mode, i.e., to process without interruption or to interrupt print jobs after a specified process step, on the printer. By interrupting print jobs, you can check print position and quality with sample copies before printing process or change the print job flow according to your print requirements.

The operations listed in the chart below are available after each process step when the print job is interrupted.

After printing process	After master-making process
<ul style="list-style-type: none"> • 180-degree image rotation for the following page p.101 • Paper replacement p.20 • Received file information review p.33 • Job flow change ([Skip Page], [Clear All]) p.33 	<ul style="list-style-type: none"> • Print position/quality check p.64 • Job flow change ([Renew Page], [Skip Page], [Clear All]) p.33 • Print density/speed change p.62,63

After interruption, you can resume the print job by pressing the Start key.

The figure below shows the key operation timing with the respective Auto-process options.



Important!

- Refer to the dedicated user's guide for the printer driver for details on the settings and operations with the printer driver.
- The timing for halting direct printing set with the printer driver will always take precedence of the setting on the printer. However, it is possible to amend the timing on the printer if necessary while all operations are suspended.

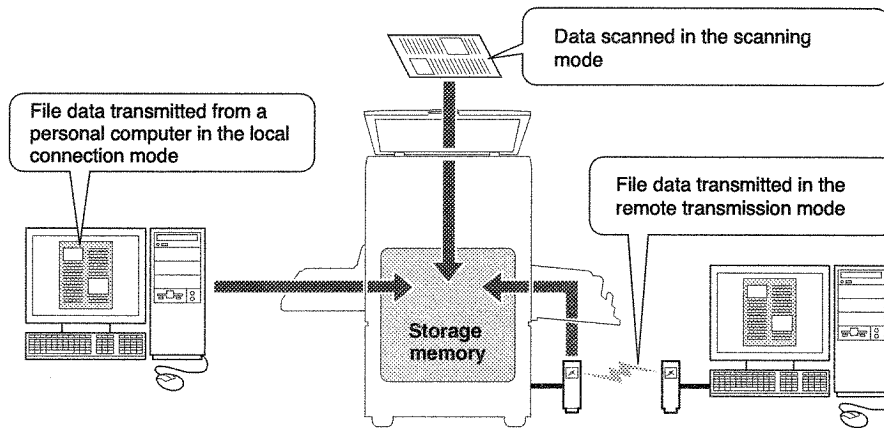
Expanding Functions with the Document Memory Card

Using the optional Document Memory Card DMC-32, you can enhance the printer's abilities in the Data mode. This chapter provides explanations on the usage and necessary precautions for each of these functions, as well as explaining how to make the various settings.

By installing the Document Memory Card onto the printer, the following functions can be used when printing in the Data mode.

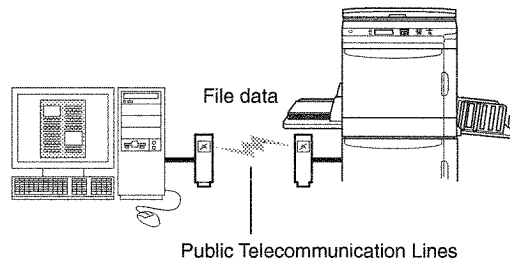
●File Storage

It is possible to save the file data received from personal computers or scanned on the Stage Glass in the storage memory. These data are stored and can be recalled as many times as required for printing purposes. They will not be cleared even if the printer's main power switch is turned off or the Reset key is pressed.



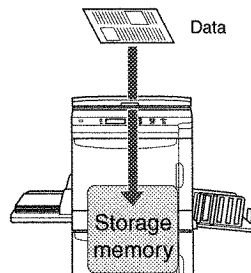
●Remote Data Transmission

The Document Memory Card enables the printer to receive file data from remote locations via public telecommunication lines with a modem or TA.



●Scanning

It is possible to scan documents, books and other originals with the printer's scanner and then save it in the storage memory. This enables the data to be called and printed out as many times as required.



Storing File Data

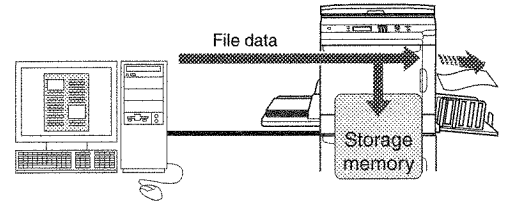
● Storing in the Local connection mode

The data is stored as shown below in accordance with the output instructions set with the printer driver.

Refer to the printer driver's user's guide for further details on the various output instructions available.

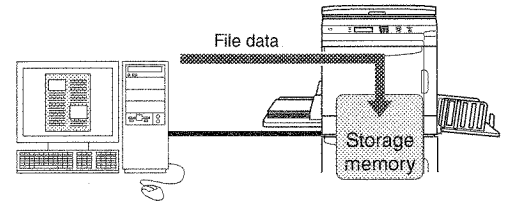
[Print & Storage]

The file data transmitted from a personal computer is printed directly and is also saved into the storage memory.



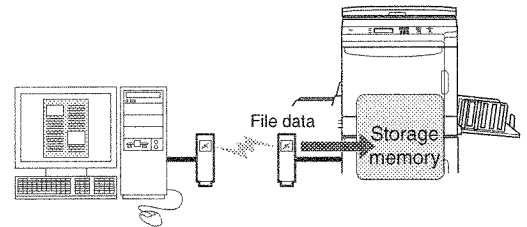
[Storage Only]

The file data transmitted from a personal computer is saved in the storage memory (not printed directly).



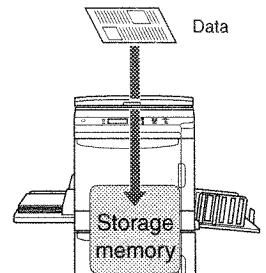
● Storing in the Remote transmission mode

The file data received in the remote transmission mode is automatically saved into the storage memory (not printed directly).



● Storing in the Scanning mode

The documents, books and other originals scanned with the printer's scanner is saved into the storage memory (not printed directly).



Expanding Functions with the Document Memory Card

NOTE Data information other than those listed below will not be recorded when saving file data in the storage memory.

- Print Job Name • Owner • Page Count • Current Date/Time (date and time the data was stored) • Page Size • Print Drum (color) • Protection • Status (receipt error display) • Rotate

Important!

You cannot make any operation on the storage data under the following circumstances.

- While the file data is being received or developed.
- When the printer has any print job waiting to be printed in the local connection mode.

Important!

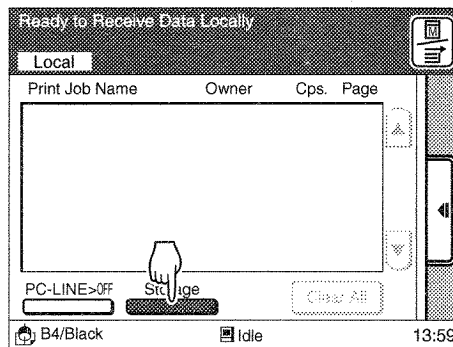
In case of natural disasters or other unexpected events which may cause damages to the printer and/or storage memory, it is recommended that all important data is backed up onto the personal computer.

Recalling the Storage File

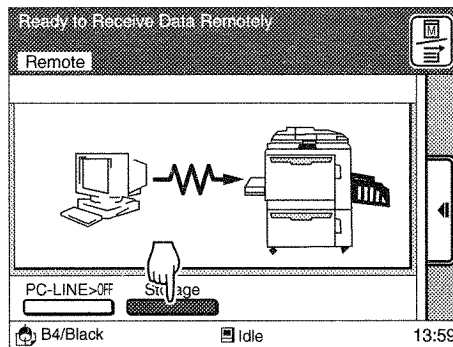
1 Touch the (Storage) button on the (Ready to Receive Data) window.

The [Storage File Selection] window appears.

In the Local connection mode



In the Remote transmission mode



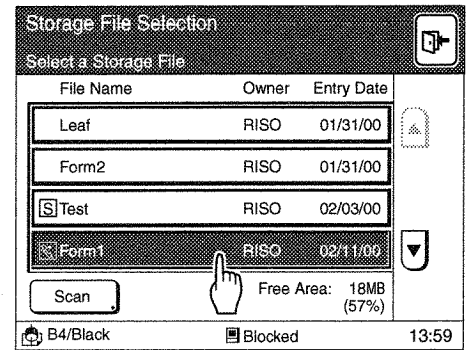
Expanding Functions with the Document Memory Card

2 Select the desired file data.

A list of the stored data will be displayed on the window.

The name of the data (document), the owner's name and the date and time when the data was stored will also be displayed in each file frame.

- If the required file name is not displayed on the screen, touch the [▲] or [▼] button to scroll through the list.
- The mode in which the storage file was created will be displayed as an icon on the left of the File Name.



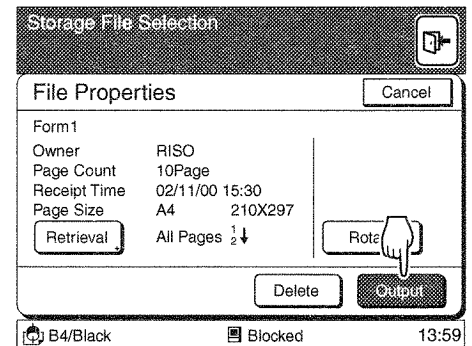
Icon	Mode
(None)	Local connection mode
	Remote transmission mode
	Scanning mode

3 Touch the (Output) button.

The storage file will be recalled and the data information is displayed on the [File Properties] window.

Touch the [Cancel] button to cancel recalling and return to the [Storage File Selection] window.

Touch the [Exit] button on the upper right corner of the window to terminate the operation.



Expanding Functions with the Document Memory Card

About the [File Properties] window

The following details relating to the storage file can be confirmed on the [File Properties] window.

① File details

Displays the file name, the owner's name, the total page count and other document details stored, as well as the date when the storage file was created.

② [Rotate] button

Rotates the image by 180 degrees. The button switches between [ON] and [OFF] whenever it is touched.

③ Status display

The status of the file data will be displayed in the following cases.

- When the [RMT Error Transact] setting in [Properties] window has been set to [Pause] and a communication error occurs in the Remote transmission mode.
 - ☞ **p.138...**Customizing the Initial Settings
- When the [Protection] setting has been set to [ON] on the data transmission side and a communication error occurs in the Remote transmission mode.

④ [Retrieval] button

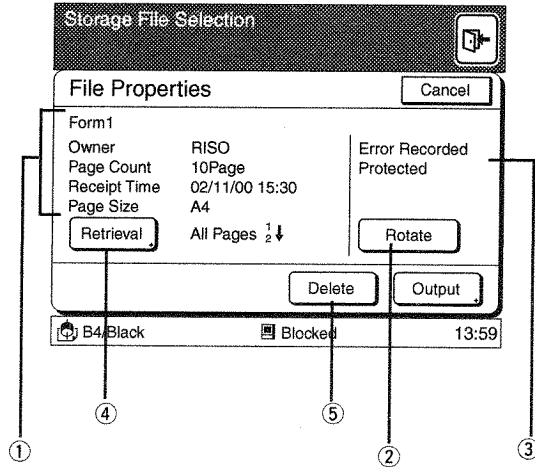
Changes the output range of page data.

- ☞ **p.39...**Specifying the Output Range

⑤ [Delete] button

Erases unwanted storage files.

- ☞ **p.41...**Clearing File Data from the Storage Memory

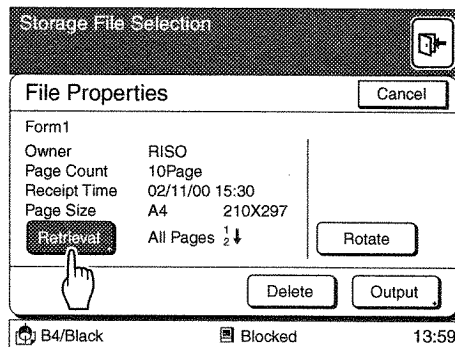


Specifying the Output Range

You can specify the range of the pages (odd/even page only) and the output sequence (ascending/descending order). It is also possible to specify only the page to be output.

1 Touch the (Retrieval) button on the (File Properties) window.

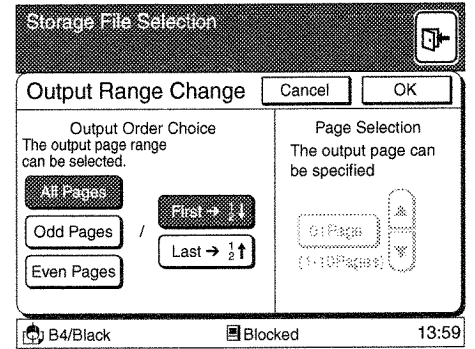
The [Output Range Change] window appears. Refer to steps 1 and 2 in the section on [Recalling the Storage File] (page 37) for details on the displaying the [File Properties] window.



Expanding Functions with the Document Memory Card

2 Specify the output range or a page to be output.

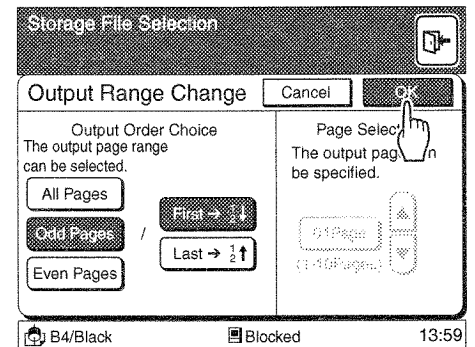
Specify either [Output Order Choice] or [Page Selection] in accordance with requirements for the output range.



All Pages	First → 1/2 ↓	Prints all pages in ascending order
Odd Pages		Prints only odd pages in ascending order
Even Pages		Prints only even pages in ascending order
All Pages	Last → 1/2 ↑	Prints all pages in reverse descending order
Odd Pages		Prints only odd pages in reverse descending order
Even Pages		Prints only even pages in reverse descending order

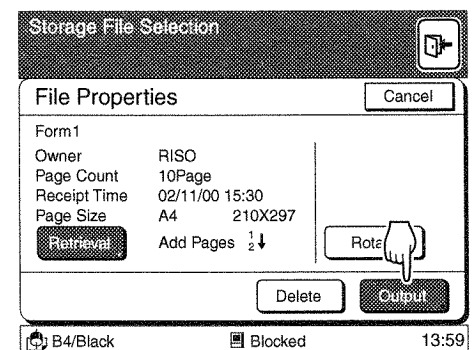
3 Touch the (OK) button.

The [File Properties] window appears. The modified settings will be displayed in the [Retrieval] field. Touch the [Cancel] button to cancel the retrieval change and return to the [Storage File Selection] window.



4 Touch the (Output) button.

The storage file is recalled and the Main-panel window appears. Press the Start key to start master-making operation.

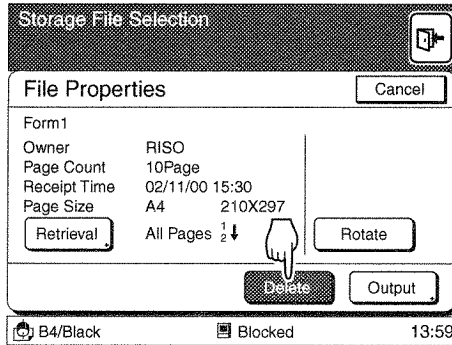


Clearing File Data from the Storage Memory

To make room for the coming file data, you are required to clear the unwanted file data from the storage memory.

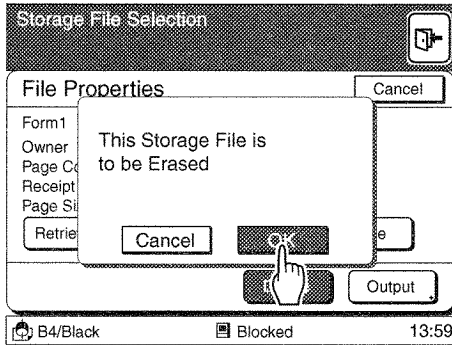
1 Touch the (Delete) button on the (File Properties) window.

A confirmation message box appears. Refer to step 1 and 2 in the section on [Recalling the Storage File] (page 37) for details on displaying the [File Properties] window.



2 Touch the (OK) button.

The selected storage file will be deleted and the confirmation message box disappears. Touch the [Cancel] button to cancel deletion and return to the [Storage File Selection] window. Touch the [Exit] button on the upper right corner of the window to finish the Storage File Selection.



Scanning and Saving Document Data

Documents, books and other originals can be scanned on the printer, and the scanned data can be stored in the storage memory.

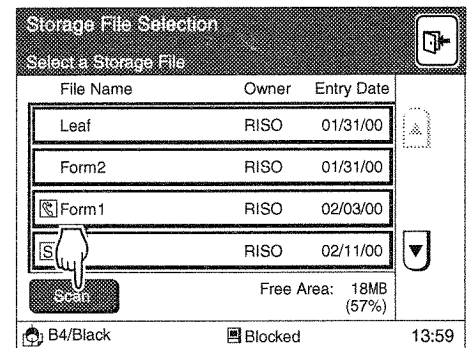
The storage data can be recalled and printed at any time.

In the same way as when printing in the Copy mode, it is possible to enlarge and reduce page sizes and adjust the scanning contrast when scanning documents in the Scanning mode.

1 Touch the (Scan) button on the (Storage File Selection) window.

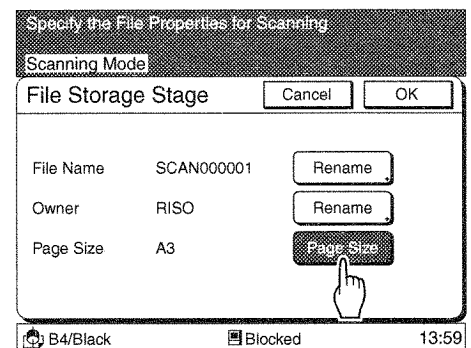
The [File Storage Stage] window appears.

- Refer to step 1 in the section on [Recalling the Storage File] (page 37) for details on displaying the [Storage File Selection] window.
- It is also possible to change the file name and owner's name in this stage if necessary.
 - ☛ **p.48...**Renaming the Scanned Data File and Its Owner.



2 Touch the (Page Size) button.

The [Page Size Entry] window appears.

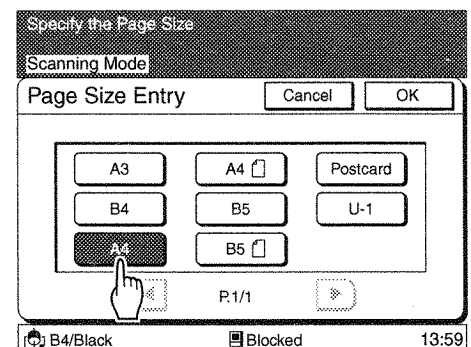


3 Touch the Size button for the relevant page size.

If the required [Size] button is not displayed on the window, touch the [◀] or [▶] button to scroll through the list.

Important!

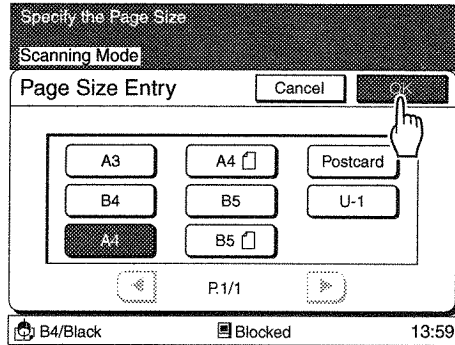
Select a paper size that matches the enlarged or reduced page size if you change the reproduction ratio in scanning.



Expanding Functions with the Document Memory Card

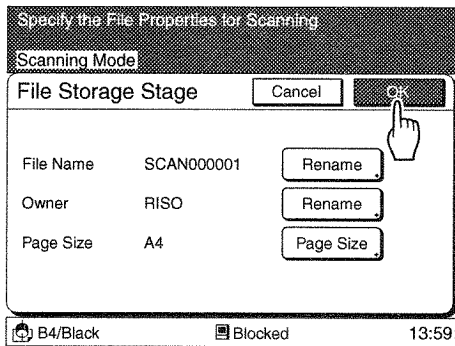
4 Touch the (OK) button.

The [File Storage Stage] window appears.



5 Touch the (OK) button.

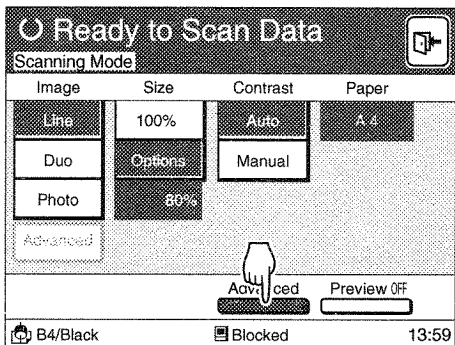
The [Ready to Scan Data] message appears.



6 Change the settings for scanning if necessary.

The following settings can be made on the [Ready to Scan Data] window.

Refer to the relevant page for details on the operating procedures for each function.



- **Image Processing mode...** [Line], [Duo], [Photo]
p.54
- **Reproduction size...** [Margin Plus], [Zoom], [Free]
p.57
- **Scanning Contrast...** [Auto], [Manual]
p.61

NOTE • The reproduction options [Auto] and [Standard] are not available in the Scanning mode.

- In addition to the above settings, it is also possible to set up the [Book Shadow Editor] function on the [Advanced Options] window.
p.46...Setting up the Advanced Options in Scanning

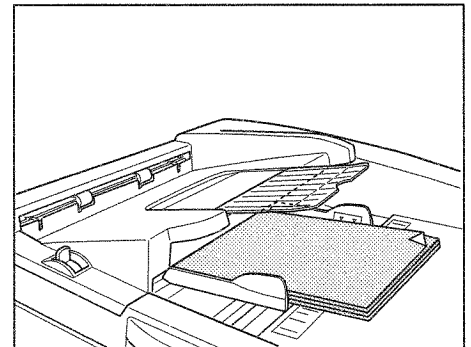
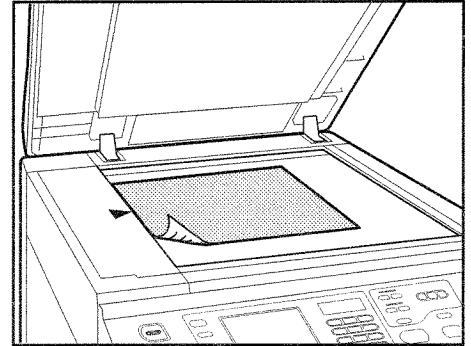
Expanding Functions with the Document Memory Card

- NOTE** When the [Preview] function is activated, a test print will be created after the scanning operation to allow you to check the scanning result with an actual printout.
- ☞ p.47... Confirming the Scanning Result

7 Place an original on the Stage Glass or in the optional ADF Unit.

- If placing originals on the Stage Glass, open the Stage Cover and place an original face down. Position the original according to the indicators on the left-hand side of the glass. Close the cover, resting it gently on the original.
- If placing originals in the optional ADF Unit, open the ADF Original Receiving Tray and adjust the ADF Original Guides to the width of the originals. Then place the originals face down in the ADF Unit. The originals are automatically fed and set into place.

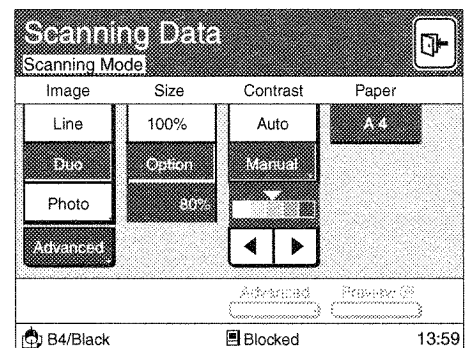
- NOTE**
- A maximum of 50 originals can be set into place on the ADF Tray at one time.
 - Even if multiple originals are scanned in an operation using the ADF unit, the whole scanned data are stored in a data file.



8 Press the Start key.

The scanning operation starts.
The window returns to the [Ready to Scan Data] window after scanning.

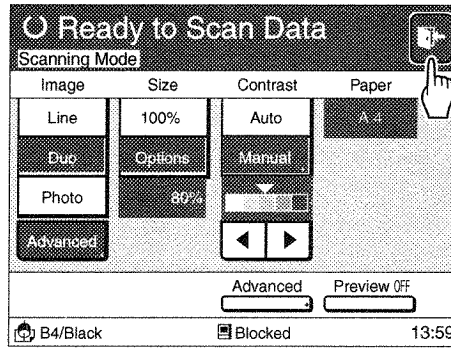
- Repeat steps 6 and 7 until all originals are scanned when multiple originals are being processed on the Stage Glass.
- All originals set in the optional ADF unit will be scanned consecutively.



Expanding Functions with the Document Memory Card

9 Touch the (Exit) button on the upper right corner of the window.

The confirmation message box appears.

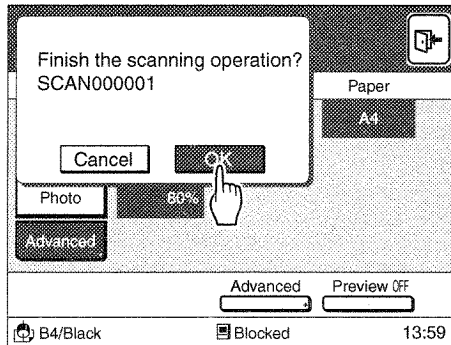


10 Touch the (OK) button.

The Scanning mode is ended and the window returns to the [Storage File Selection] window. Touch the [Cancel] button to return to the [Ready to Scan Data] window.

The original image scanned in the Scanning mode will be saved as storage data and can be recalled and printed at any time.

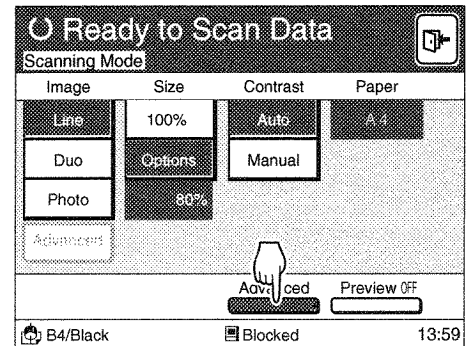
p.37... Recalling the Storage File



Setting up the Advanced Options in Scanning

1 Touch the (Advanced) button on the (Ready to Scan Data) window.

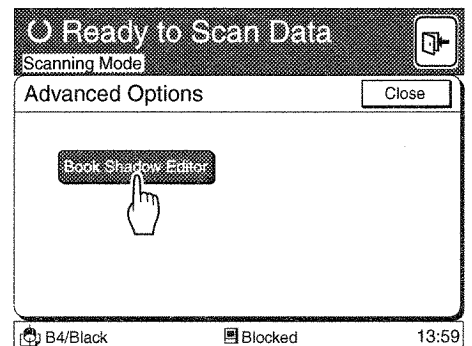
The [Advanced Options] window appears. Refer to steps 1 to 5 in the section on [Scanning and Saving Document Data] on page 42 for details on the procedure required for displaying the window.



2 Touch the function name to be applied in Scanning.

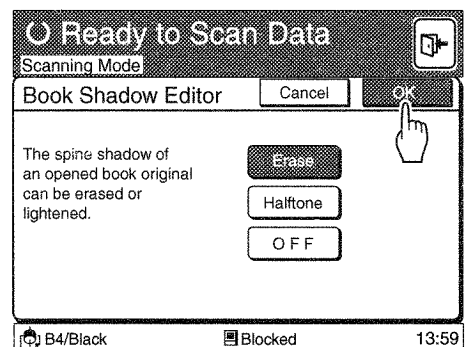
The relevant function setup window appears. The [Book Shadow Editor] feature can be specified on the [Advanced Options] window. Refer to the relevant page for details on setting up the function.

☞ p.75 ... Reproducing Bound Documents



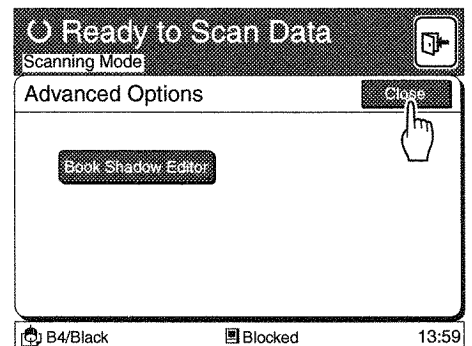
3 Touch the (OK) button when all settings have been completed.

The window returns to the [Advanced Options] window. Touch the [Cancel] button to cancel the operation.



4 Touch the (Close) button.

The window returns to the [Ready to Scan Data] window.



Confirming the Scanning Result

You can check the scanning result with an actual printout (a test print) by activating the [Preview] function.

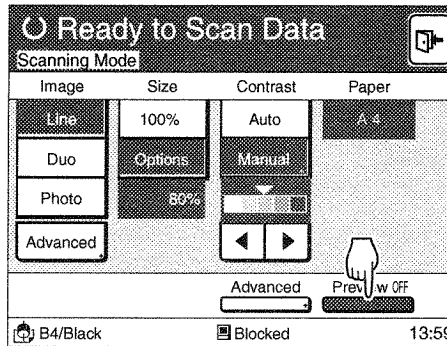
Touch the (Preview) button on the (Ready to Scan Data) window.

The [Preview] function will be set at [ON], and the display above the button will change from [OFF] to [ON].



Touch the button once again to inactivate the function.

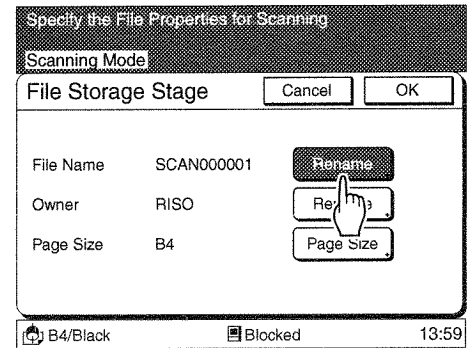
NOTE When scanning is performed with the [Preview] function set at [ON], the master-making operation simultaneously starts, and a test print will be output. The test print allows you to check the finished result of the data created in the Scanning mode.



Renaming the Scanned Data File and Its Owner

- 1 Touch the (Rename) button for the (File Name) or (Owner) field on the (File Storage Stage) window.

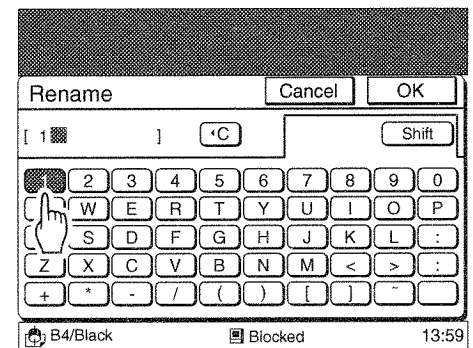
The [Rename] window appears.
Refer to step 1 in the chapter [Scanning and Saving Document Data] on page 42 for details on the procedure required for displaying the [File Storage Stage] window.



- 2 Enter each required character one-by-one.

You can switch between uppercase window and lowercase window by touching the [Shift] button.

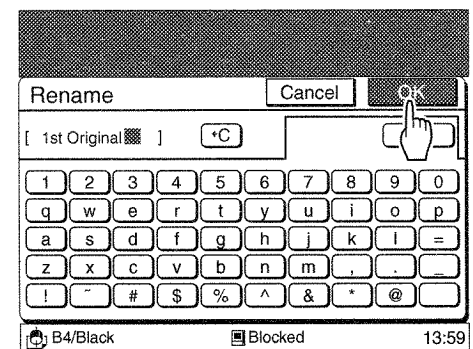
- Up to twenty spaces can be input for the file name.
- Up to eight spaces can be input for the owner's name.
- Numerals can also be input with the Print Quantity keys.
- Touch the [◀ C] button to erase an entered letter (one letter will be erased whenever the button is touched).



- 3 Touch the (OK) button.

The window returns to the [File Storage Stage] window.
The new names of the data file and owner will be displayed.

NOTE You can customize the initial owner's name.
p.49... Customizing the Initial Owner's Name

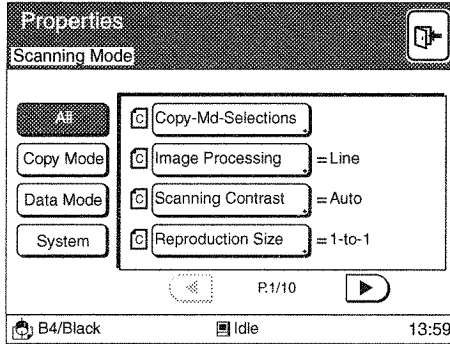


Customizing the Initial Owner's Name

You can customize the initial owner name which is automatically allocated to the data file created.

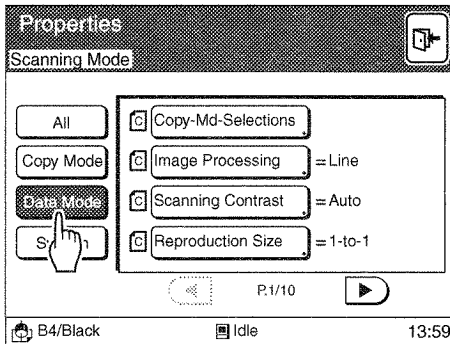
1 Display the (Properties) window.

Refer to the steps 1 to 2 in the chapter [Customizing the Initial Settings] on page 138 for details on the procedure required for display the [Properties] window.



2 Touch the (Data Mode) selection button.

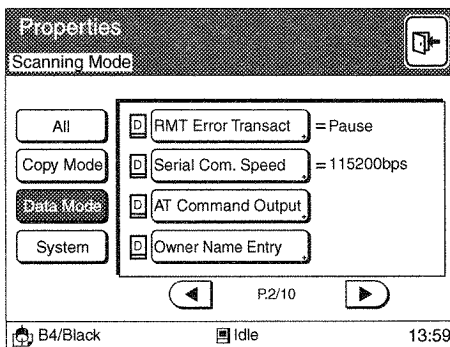
Only the function buttons to be used in the Data mode will be displayed. Refer to the page 139 for details on Function Selection buttons.



3 Display the (Owner Name Entry) button.

Touch the [◀] or [▶] button to scroll through the list.

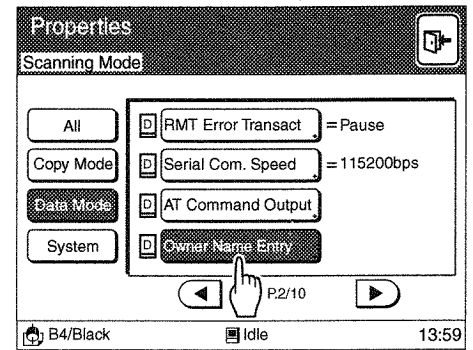
NOTE The number of function buttons will differ in accordance with the model and the configuration of the optional devices.



Expanding Functions with the Document Memory Card

4 Touch the (Owner Name Entry) button.

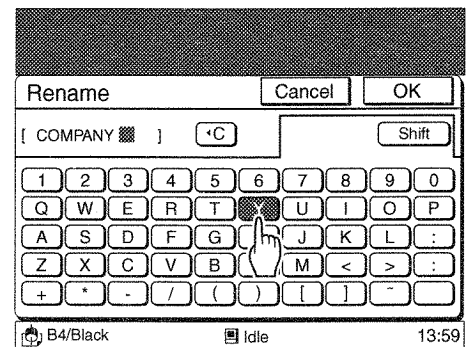
The [Rename] window appears.



5 Enter each required character one-by-one.

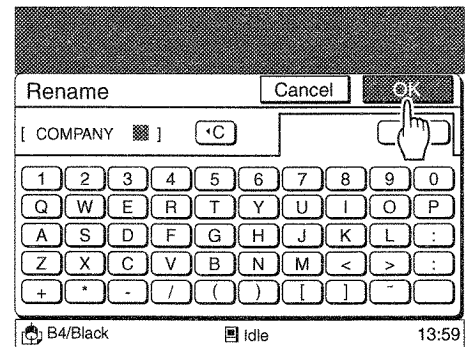
You can switch between uppercase window and lowercase window by touching the [Shift] button.

- Up to twelve spaces can be input.
- Numerals can also be input with the Print Quantity keys.
- Touch the [← C] button to erase an entered letter (one letter will be erased whenever the button is touched).



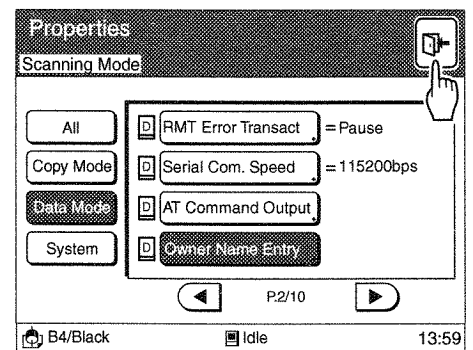
6 Touch the (OK) button.

The window returns to the [Properties] window.



7 Touch the (Exit) button on the upper right corner of the window.

The new owner name will be displayed at the next time the [File Storage Stage] window is opened.





Changing the Data Mode Configuration

You may be required to change the Data mode configuration according to your operation requirements for printing out the document data sent from the computer. The following items can be configured on the Main Display. For the detailed descriptions and procedures, refer to the chapter "Customizing the Initial Settings" on page 138.

[Communication Mode]

Selects the current communication mode between the Local connection mode and the Remote transmission mode.

[Remote (RMT) Data Receiver]

Selects the data receiving device for the Remote transmission mode.

[Remote (RMT) Error Transaction]


Selects how to process communication errors in the Remote transmission mode.

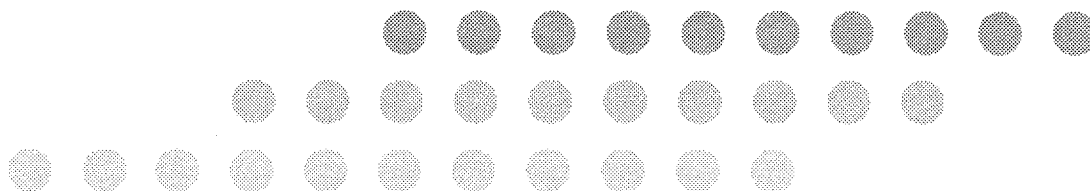
[Serial Communication (Com.) Speed]

Selects the serial communication speed between the printer and the data receiving device for the Remote transmission mode.

[AT Command Output]

Outputs a selected AT command to the connected data receiving device.

 **p. 138** [Customizing the Initial Settings]

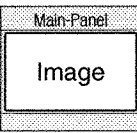
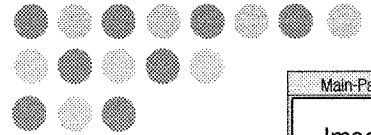


Basic Features

This section describes how to select the best image processing mode in accordance with the original type, as well as the functions that can be set up on the Main-panel window or on the control panel.

Photo/Half-Tone Processing	54
Reducing and Enlarging Originals	57
Changing Image Contrast on Prints	61
Changing Print Speed	62
Changing Print Density	63
Repositioning the Print	64
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Producing Proof Copies	67
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Changing Print Job Flow (In Direct Printing)	69
Confirming Current Settings	72

Photo/Half-Tone Processing



If an original contains photographs or half-tone images, or a multi-colored original is used, select [Photo] or [Duo] processing.

Selecting the Image Processing Mode

Touch either the (Duo) Button or the (Photo) Button on the Main-panel window.

[Duo]

Reproduces photograph or half-tone images clearly without deteriorating the sharpness of lines and texts.

This processing mode is recommended for multi-colored originals or photo originals with sharp lines and texts included.

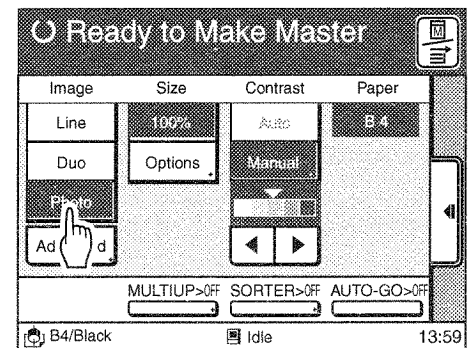
[Photo]

Reproduces different shades of photograph or half-tone images most clearly.

Lines and texts become less sharp if they are included in an original.

NOTE The image scanning contrast will automatically be specified as [Manual] when either [Photo] or [Duo] has been selected.

p.61... Changing Image Contrast on Prints



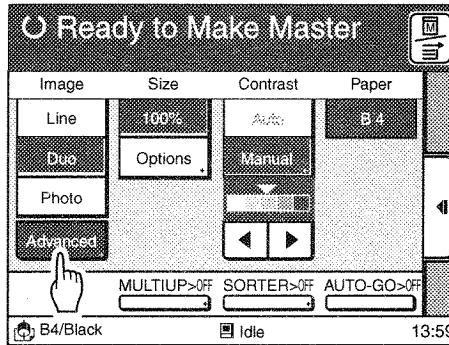
Producing Enhanced Prints

You can enhance photograph or half-tone images on an original copy in two ways: adjusting shades in images and processing images with a dot screen.

NOTE This feature is not available in the [Line] processing mode.

1 Touch the (Advanced) button.

The [Duo - Advanced] or [Photo - Advanced] window appears in accordance with the Image Processing mode selected.

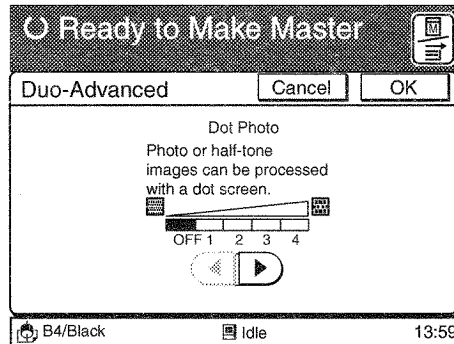


2 Adjust the (Dot Photo) and / or (Contrast Enhance) parameters.

Setting up the [Dot Photo]

The [Dot Photo] can be selected when in the [Duo] and [Photo] image processing mode.

Four types of dot screens are available.

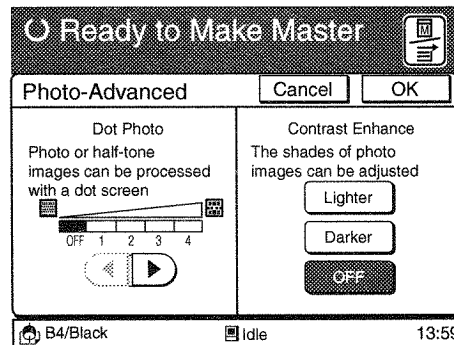


Indicator	OFF	1	2	3	4
Screen	-	Fine	Slightly fine	Slightly rough	Rough
Equivalent lpi	-	141	71	47	35

Setting up the [Contrast Enhance]

The [Contrast Enhance] can be selected when [Photo] has been selected in the image processing mode.

Lighter	Enhances the dark areas
Darker	Enhances the light areas
OFF	Does not enhance the contrast



Photo/Half-Tone Processing

[Darker]

For photographs that have too light shades, select [Darker].
The contrast in the light-shade areas will be enhanced to reproduce clearer images.

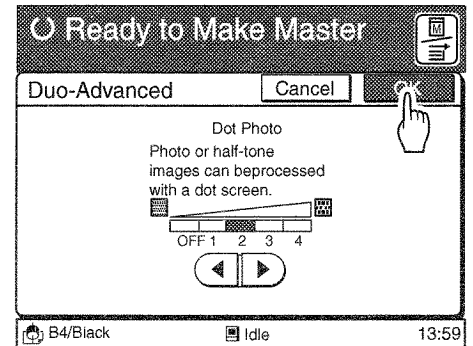
[Lighter]

For photographs that have too dark shades, select [Lighter].
The contrast in the dark-shade areas will be enhanced to reproduce clearer images.

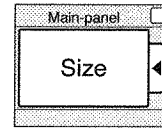
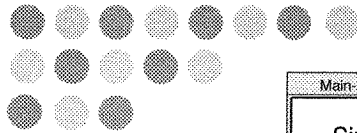
3 Touch the (OK) button

The window returns to the Main-panel window.

- NOTE**
- To cancel this operation, touch the [Cancel] button.
 - You can customize initial settings.
p. 138... Customizing the Initial Settings



Reducing and Enlarging Originals



Originals can be reduced or enlarged, using the following functions.

p. 110... Reproduction percentage can be adjusted and saved in memory for quick recall.



[Standard]

To reduce or enlarge any standard-size original to another standard size, select the [Standard] button. Eight preset reduction/enlargement percentages are available.

[Margin +]

You can reduce the original to between 90% and 99%. This function is useful when you want to add margins on prints or when the images exceed the boundaries of the print area.

[Zoom]

You can specify any reduction or enlargement ratio between 50% and 200% in increments of 1%.

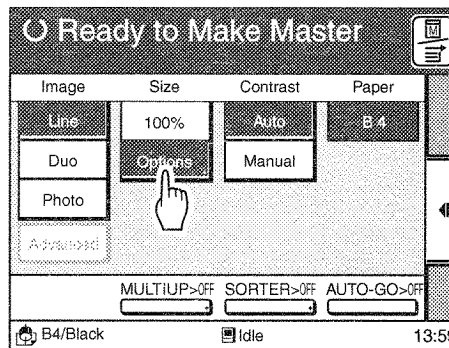
[Free]

You can specify the vertical and horizontal enlargement/reduction rates separately. The enlargement/reduction ratio can be set between 50% and 200% in increments of 1%.

Using [Standard], [Zoom] or [Free]

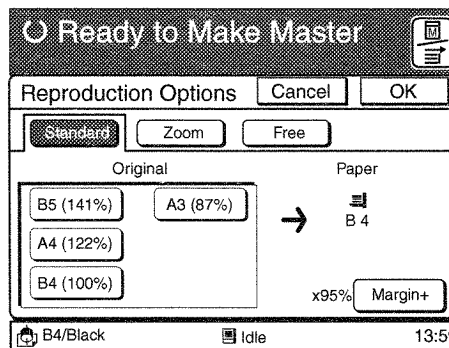
- 1 Touch the (Options) button on the Main-panel window.

The [Reproduction Options] window appears.



- 2 Touch either of the (Standard), (Zoom) or (Free) button.

Select either the [Standard], [Zoom] or [Free] buttons to display the required enlargement/reduction setup tab.



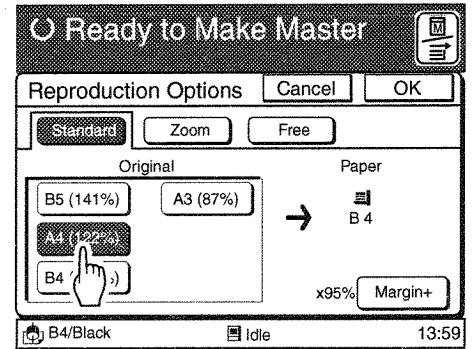
Reducing and Enlarging Originals

3 Specify a desired reproduction size.

=[Standard] setting=

Select the current original size.

- NOTE**
- This function is not available when any non-standard-sized original and/or printing paper is used.
 - Touch the [Cancel] button to cancel the current [Standard] settings and return to the Main-panel window.



Parameters

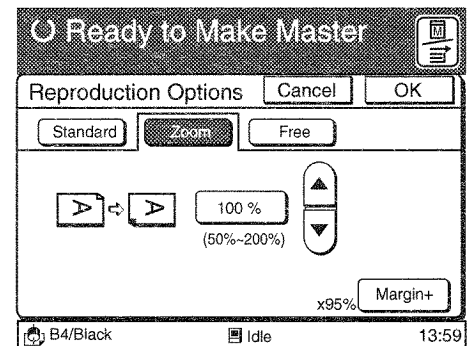
	USA Models	Metric Models
Reduction	50%, 61%, 65%, 78%	61%, 71%, 82%, 87%
Enlargement	154%, 129%	141%, 122%, 116%

=[Zoom] setting=

Specify the enlargement/reduction ratio between 50% and 200% by touching either of the [▲] [▼] buttons.

The ratio is changed by 1%.

- NOTE**
- The ratio can also be specified with the Print Quantity keys.
 - When you press the [C] key, the percentage returns to the original size (100%).
 - Touch the [Cancel] button to cancel the current [Zoom] settings and return to the Main-panel window.

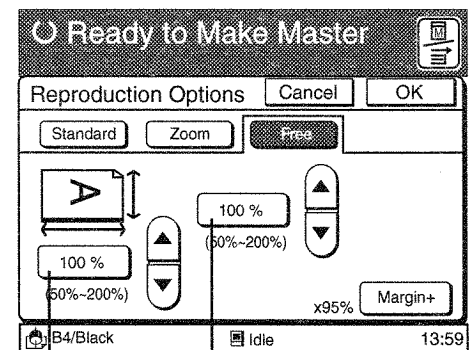


=[Free] setting=

Specify the enlargement/reduction ratio both vertically and horizontally separately between 50% and 200% by touching the [▲] [▼] [◀] [▶] buttons.

The ratio is changed by 1%.

- NOTE**
- The ratio can also be specified with the use of the Print Quantity Keys while activating the [Vertical/Horizontal Enlargement/Reduction Ratio] button by touching it or shifting the cursor with the * key.
 - When you press the [C] key, the reproduction size returns to the original size (100%).
 - Touch the [Cancel] button to cancel the current [Free] settings and return to the Main-panel window.



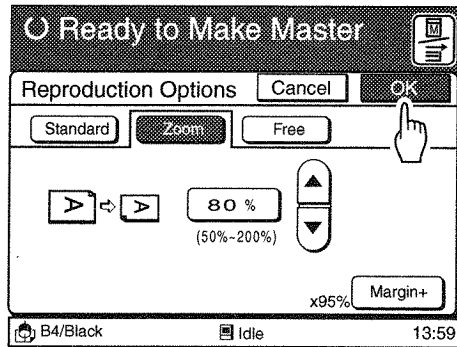
[Horizontal Enlargement/
Reduction Ratio] button

[Vertical Enlargement/
Reduction Ratio] button

Reducing and Enlarging Originals

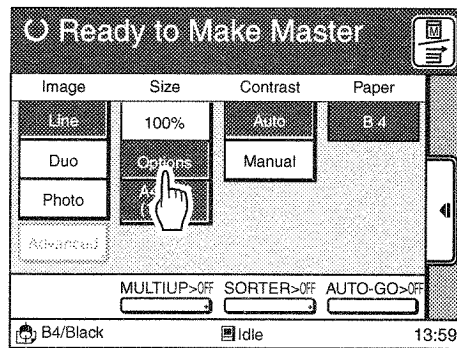
4 Touch the (OK) button

The window returns to the Main-panel window. The current enlargement/reduction ratio will be displayed below the [Options] button. Touch the [100%] button to return to the original size (100%).



Adding Margins on Prints

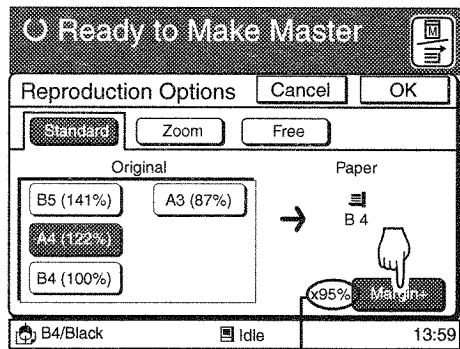
1 Touch the (Options) button on the Main-panel window.



2 Touch the (Margin +) button.

The current [Margin +] reduction ratio will be displayed on the left-hand side of the [Margin +] button.

- NOTE**
- The initial [Margin +] reduction ratio can be changed. **p.138...** Customizing the Initial Settings
 - Touch the [Margin +] button once more to cancel [Margin +] reduction.
 - The [Margin +] function can be used in combination with the [Standard], [Zoom] and [Free] reproduction size adjustment.




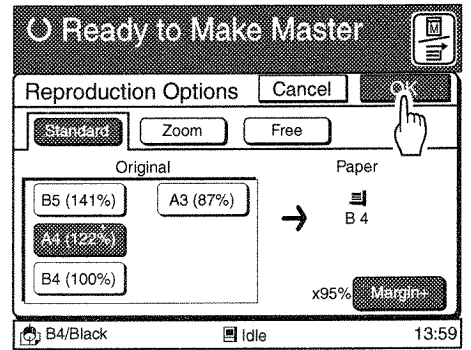
[Margin +]
reduction ratio

Reducing and Enlarging Originals

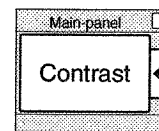
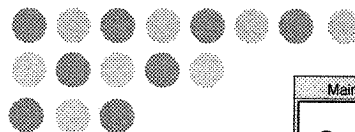
3 Touch the (OK) button.

The window returns to the Main-panel window.

- The [Margin +] icon () will be displayed below the [Options] button once this function has been activated.
- The reproduction ratio below the [Options] button will not change even when the [Margin +] function has been used in combination with the [Standard], [Zoom] and [Free] settings.



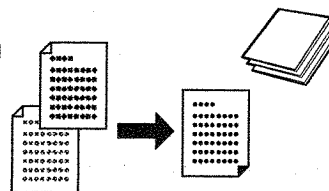
Changing Image Contrast on Prints



To achieve different tones on printed copies from those of an original, adjust the scanning contrast.

[Auto]

The scanning contrast will be adjusted automatically according to the darkness of the original scanned.



[Manual]

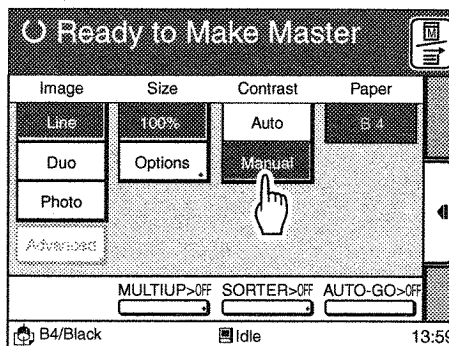
The scanning contrast can be selected manually.

Important!

The Auto Scanning Contrast Adjustment mode is available only for the Line processing mode. However, this mode is not available with the Book Shadow Editing feature ([Book shadow Editor]) even when the Line processing mode is selected.

NOTE [Auto] scanning contrast adjustment is not selectable when the Digitizer (optional) is in use.

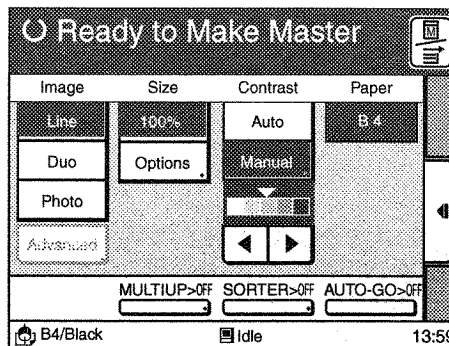
1 Touch the (Manual) button in the (Contrast) field on the Main-panel window.



The [◀ ▶] buttons and the indicator appear.

2 Change the scanning contrast.

The mark (▼) on the indicator will move when the [◀] or [▶] button is touched and indicates the contrast currently selected.



Indicator					
Scanning Contrast	Light	Slightly light	Standard	Slightly dark	Dark

- For newspaper or colored originals.
- For poor copies or pencil-written originals.

NOTE

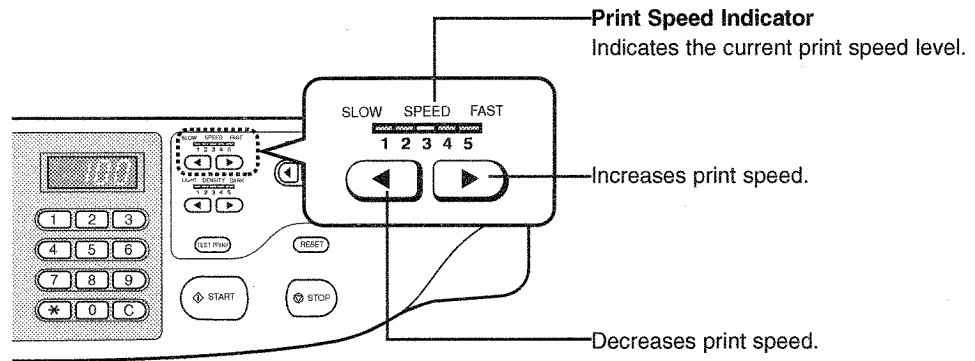
- After adjusting the scanning contrast, make another master to make the adjustment effective for further printed copies.
- You can customize initial settings.
 - ☞ **p.138...** Customizing the Initial Settings

Changing Print Speed

Printed speed can be set at any five levels, ranging between 60 and 130 sheets per minute.



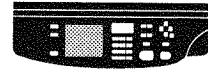
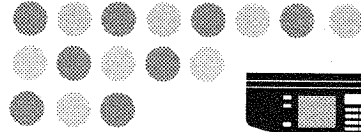
Press the Print Speed Adjustment Keys to change print speed.



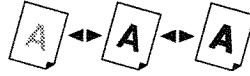
Indicator	Level 1	Level 2	Level 3	Level 4	Level 5
Print speed (copies/min.)	Approx. 60	Approx. 80	Approx. 100	Approx. 120	Approx. 130

NOTE You can customize initial settings.
 See **p. 138...** Customizing the Initial Settings

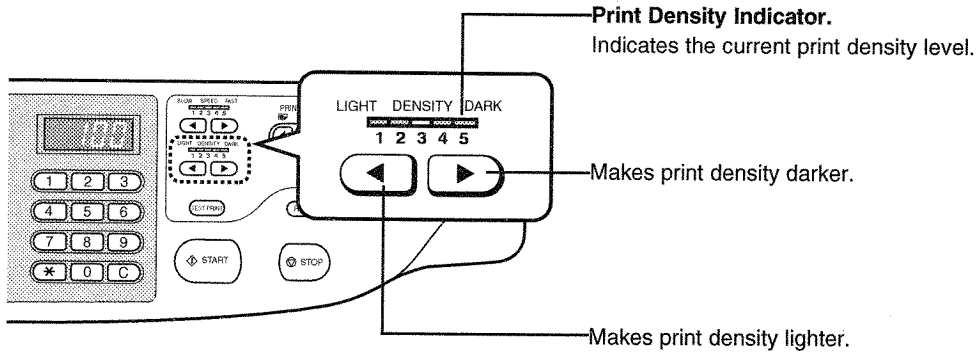
Changing Print Density



Print density can be set at any of five levels.



Press the Print Density Adjustment keys to change print density.

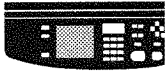
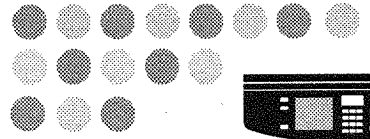


Print density changes densities of prints after master-making.

When the print density setting is changed, press the Test Print key to check the results with proof copies.

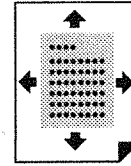
NOTE You can customize initial settings.
p. 138... Customizing the Initial Settings

Repositioning the Print



The print position can be adjusted vertically (up and down) and horizontally (to the right and left).

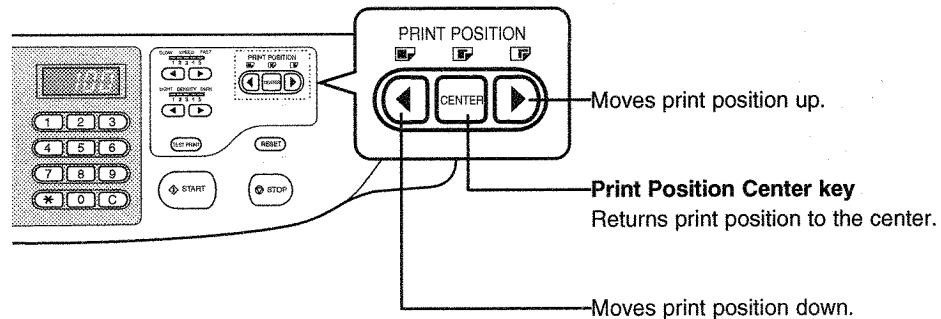
The vertical print position can be adjusted during printing without stopping the operation by pressing the Print Position Adjustment keys (except for the Print Position Center key).



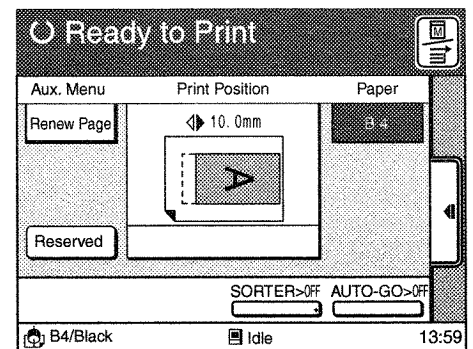
NOTE If you adjust the print position, be sure to produce test prints to verify the new print position.

Adjusting Vertical Print Position

You can move the print position vertically by pressing either of the Vertical Print Position Adjustment keys. The allowable range is $\pm 10\text{mm}$ ($\pm \frac{3}{8}$ ").



When the Print Position Adjustment key is pressed, the distance of print position shift appears in the display.



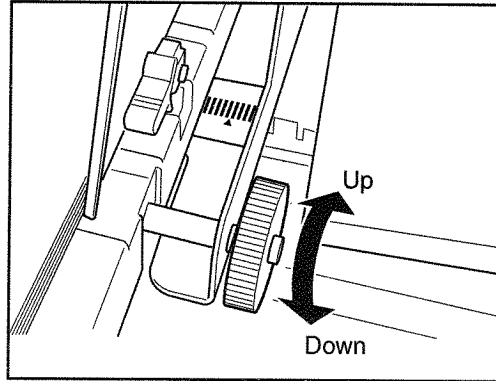
Adjusting Horizontal Print Position

Lower the Paper Feed Tray by pressing the Feed Tray Descent Button, and adjust the horizontal positions by the Horizontal Print Position Adjustment Dial. The print position moves to the left when you turn the dial upward, and moves to the right when you turn the dial downward.

NOTE The solid triangle ▶ indicates the center position of the tray. If you shift it, it is recommended to return the Paper Feed Tray to the center position after your print job.

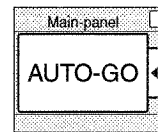
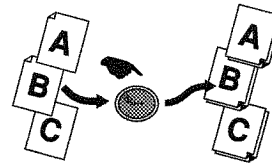
Important!

When you adjusted the horizontal positions, be sure to readjust them to the original position after printing is finished.



Automatic Printing (Auto Process)

If you do not need to check print samples before making prints, touch the [AUTO-GO] button before pressing the Start key to activate the Auto Process feature. This feature enables nonstop operation from master-making through printing.

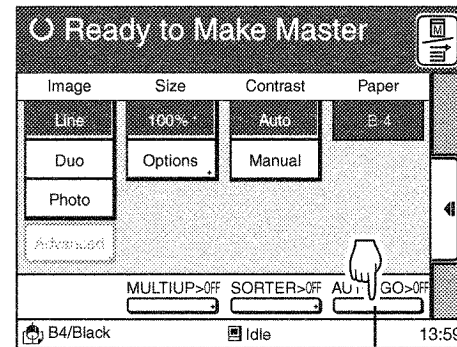


NOTE If you need to check or adjust the print position, cancel the Auto Process feature by pressing the [AUTO-GO] button again or activate the [Semi-Auto(Master)] feature in the [Properties] window. **p.99...** Changing Process Flow on the Printer

Touch the (AUTO-GO) button on the Main-panel window.



NOTE If the [Auto Process Mode] is activated on the [Properties] window, Auto Process feature will always be set at [ON] even after the printer is reset or restarted. **p.138...** Customizing the Initial Settings



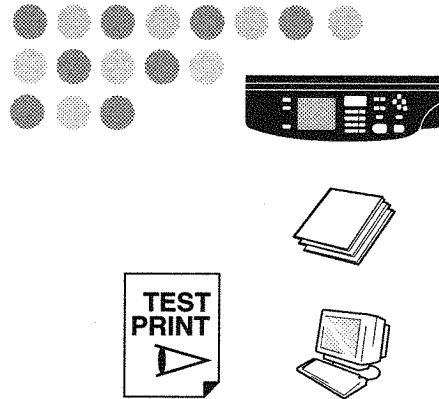
[AUTO-GO] button

Producing Proof Copies

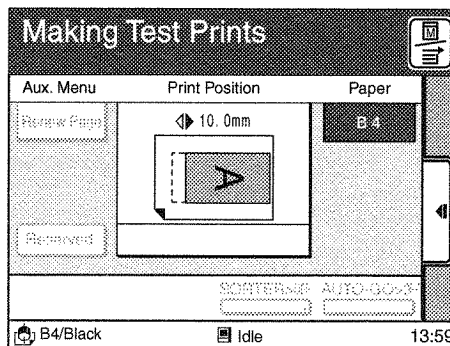
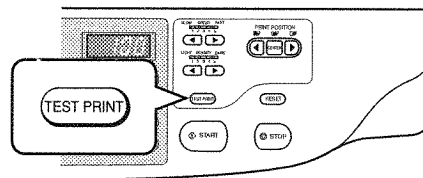
If changes have been made to the print position and other settings, check the print quality by producing proof copies.

By holding down the Test Print key, you can print continuously.

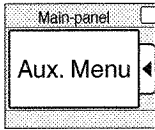
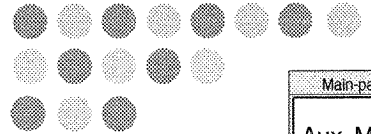
NOTE Test printing does not affect the quantity in the Print Quantity Display.



Press the Test Print key.



Extending the (Reserved) Period



The Reserve period is the adjustable time after a printing operation has been completed and a new job is processed.

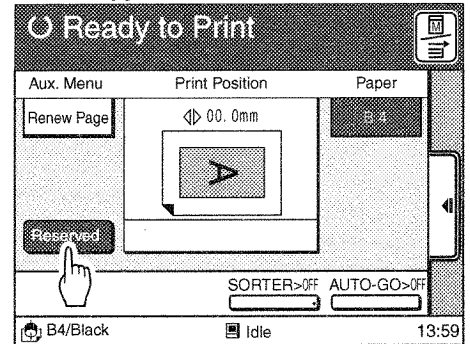
Any PC printing operation during the Reserved period will not be carried out regardless if the printer has already received the data. All data on standby will be processed in order once the Reserve period has been completed.

Touch the (Reserved) button on the Main-panel window.

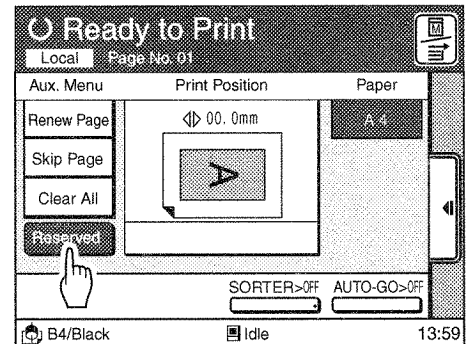
The [Reserved] period will be extended. Touch the [Reserved] button once more to cancel the setting.

- NOTE**
- The [Auto Sleep] and [Auto Power-OFF] settings take priority even when the [Reserved] period has been extended.
 - The default setting for the [Reserved] period is as follows:
 - Standard 30 seconds
 - Extension 5 minutes
 - The default settings can be changed.
 - ☞ p.138... Customizing Initial Settings

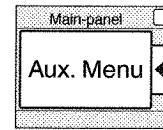
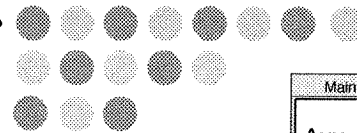
In the Copy Mode



In the Data Mode



Changing Print Job Flow (In Direct Printing)



You can change the Print job flow specified when the current document data was sent to the printer according to the current print job requirements.



The following job flow is available in the direct printing mode.

[Skip Page]

Cancels the print job of the current page and starts to make a master for the following page.

[Clear All]

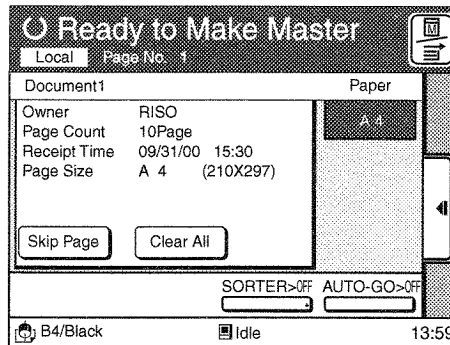
Cancels the total print job of the multiple pages specified for the current document data.

Important!

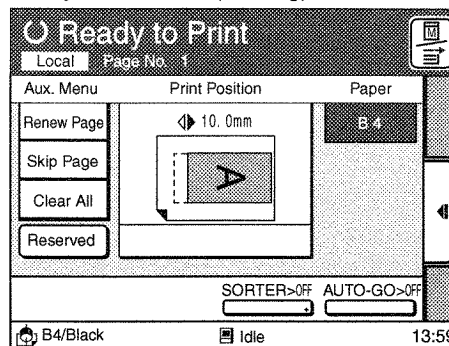
This feature is available only when the Auto Process function is set to [OFF] or [Semi-Auto (Print)] with the printer driver.

This feature is available in two different display areas, before making master and before making prints.

Main-panel window (Master-making)



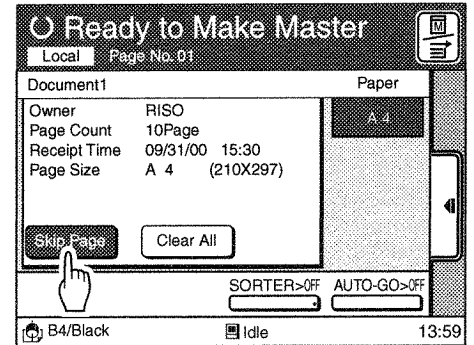
Main-panel window (Printing)



Skipping the Current Page

1 Touch the (Skip Page) button.

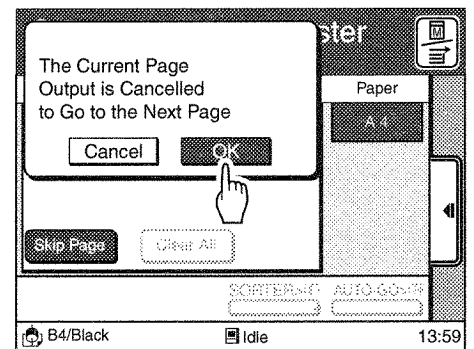
The confirmation message box appears.



2 Touch the (OK) button.

The current page is skipped and the next page is developed.

NOTE To cancel this operation, touch the [Cancel] button.

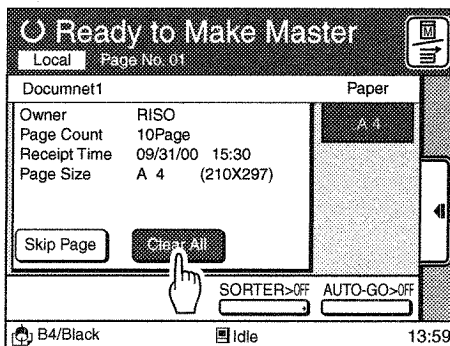


NOTE The [Skip Page] button is not available during master-making and printing operations. Press the Stop key to cancel the print job during master-making and printing operations.

Canceling the Current Print Job

1 Touch the (Clear All) button.

The confirmation message box appears.

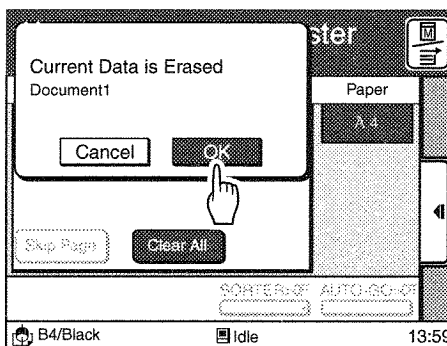


2 Touch the (OK) button.

The current job is deleted.

The window returns to the [Ready to Receive Data] window if no other job is in the processing queue.

The next job will be developed if it is in the processing queue.



NOTE The [Clear All] button is not available during master-making and printing operations. Press the Stop key to cancel the print job during master-making and printing operations. Print job can also be deleted by pressing the Data Source Selection key or the Reset key after the job has been developed.

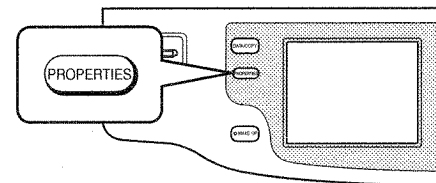
Confirming Current Settings

You can check the current settings on the printer.
These settings can also be registered in the memory for quick recall.

Press the Properties key.

A list of the current settings will be displayed.
You can scroll up and down the display by touching the [▲] and [▼] buttons.

- NOTE** • The current settings can be saved in memory for quick recall by touching the [Job List Entry] button.
- **p.110...** Storing Setting in Memory
- To close the [Current Job Design] window, touch the [Close] button.



The following properties may be changed through the [Current Job Design] window

-In the Copy mode-

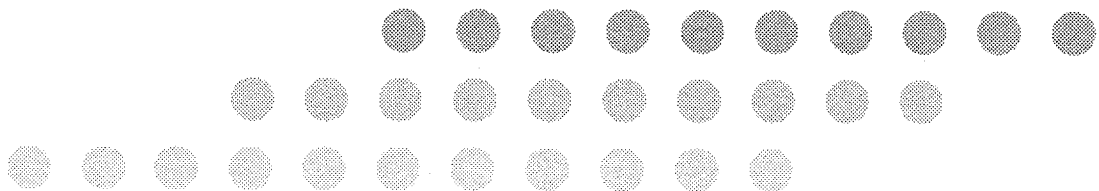
- | | | | | |
|----------------------|--------------------|----------------------|--------------------|----------------------|
| ◆ Image Processing | ◆ Contrast Level | ◆ Reproduction Size | ◆ Margin + | ● Image Editing* |
| ◆ Auto Process | ◆ Sorter* | ◆ Print Quantity | ◆ Program Printing | ◆ Print Position Adj |
| ◆ Semi-Auto (Master) | ◆ Print Speed | ◆ Print Density | ◆ Multi-Up | ◆ Book Shadow Editor |
| ◆ Jump Wing Control | ◆ Paper Type Entry | ◆ Paper Finish Entry | ◆ Job Separation* | ◆ Mirror Image Print |
| ◆ Paper Size Entry | | | | |

-In the Data mode-

- | | | | | |
|--------------------|---------------------|---------------------|----------------------|-------------------|
| ● Print Job Name | ◆ Jump Wing Control | ◆ Paper Type Entry | ◆ Print Position Adj | ◆ Job Separation* |
| ● Protection* | ● Owner Name | ● Confidential Mode | ◆ Paper Finish Entry | ◆ Page Size |
| ● Rotate | ● Status* | ● Page Count | ● Current Date/Time | ◆ Auto Process |
| ◆ Print Density | ◆ Sorter* | ◆ Print Quantity | ● Retrieval* | ◆ Print Speed |
| ◆ Paper Size Entry | | | | |

* These items appear in the [Current Job Design] window depending on the printer model and the configuration of optional devices.

◆ These items can be registered on the [Current Job Design] window.



Standard Features



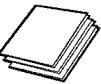
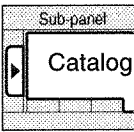
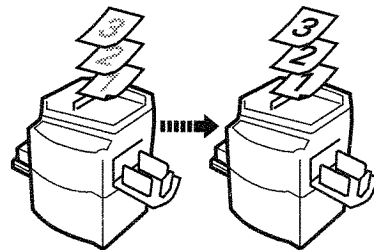
This section describes the features that enhance your RISO printer.
All of the functions explained in this section can be registered in the [Selections] window.

Idling Action	74
Reproducing Bound Documents	75
Renewing Masters	77
Protecting Confidential Documents	78
Printing Originals Side by Side	80
Changing Printing Paper Information	91
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Reversing Images.....	97
Confirming the Usage Count of the Printer	97
Changing Process Flow on the Printer	99
Rotating Images by 180 Degrees	101
Recalling Functions Quickly	102

Idling Action

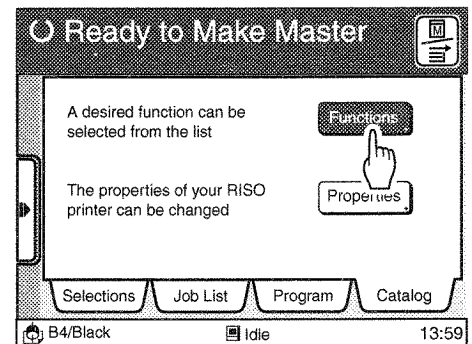
The Idling Action assures consistent print quality even after a long break by rotating the Print Cylinder (Drum) to ensure even ink distribution, and saves you from wasting paper due to faint images in printing.

- NOTE**
- When [Auto Idling Action] is set to [ON], idling action is automatically activated just before the master-making operation if the specified period has passed without any printing operation. (In this case, the [ⓘ] icon appears in the message area.)
 - You can select the minimum period required for the automatic activation and the times of rotation for the idling action.
 p.138... Customizing the Initial Settings



- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

The [Functions] window appears.



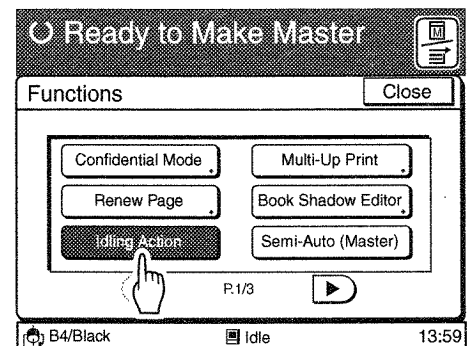
- 2 Touch the (Idling Action) button.

The [ⓘ] icon appears in the message area.

- NOTE** To cancel this operation, touch the [Idling Action] button again.

- 3 Touch the (Close) button.

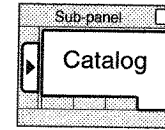
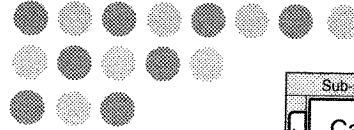
The window returns to the Main-panel window. Set the original in place for master-making.



- 4 Press the Start key.

The idling action is started. Then master-making operation starts subsequently.

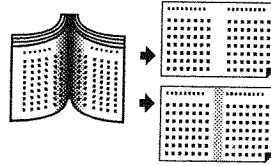
Reproducing Bound Documents



[Book Shadow Edit]

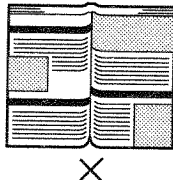
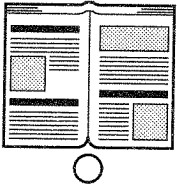
The Book Shadow Edit feature can be used to process originals that are printed on facing pages of a book, such as an atlas, printed report, or other types of bound originals.

When this feature is active, the binding "spine" shadow can be erased.



Important!

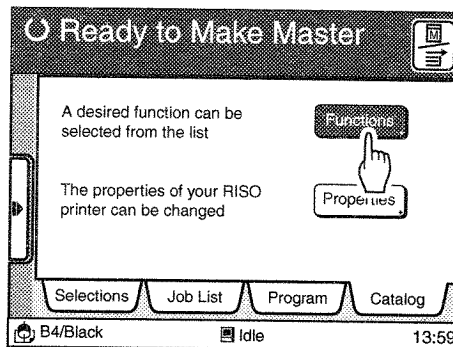
The original without a margin is not applicable to this feature.



NOTE The Duo mode and Auto scanning contrast adjustment mode are not available for this feature.

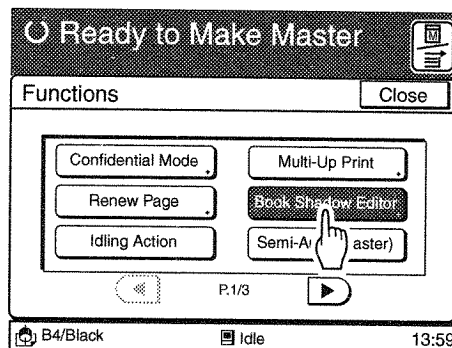
- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

The [Functions] window appears.



- 2 Touch the (Book Shadow Editor) button.

The [Book Shadow Editor] window appears.



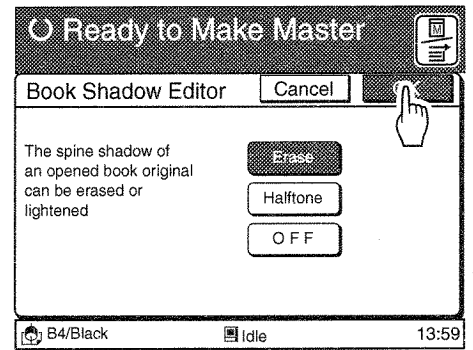
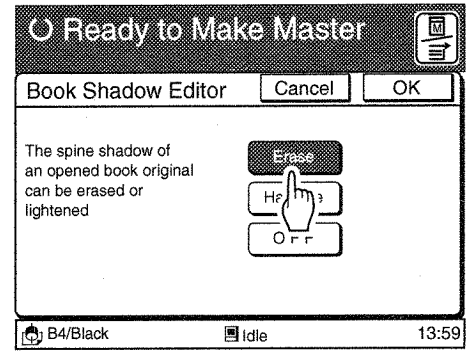
Reproducing Bound Documents

- 3 Touch the (Erase) button or the (Half-tone) button.

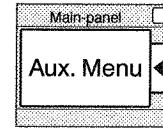
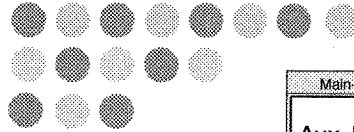
Select the process required.

Erase	Erases the book spine shadow
Half-tone	Prints the book spine shadow lightly with half-tone processing
OFF	Inactivates book shadow editor processing

- 4 Touch the (OK) button.



Renewing Masters



You can renew (remake) a master from the most recently scanned/developed page data. Besides, the Image rotation feature is selectable in the Data mode.



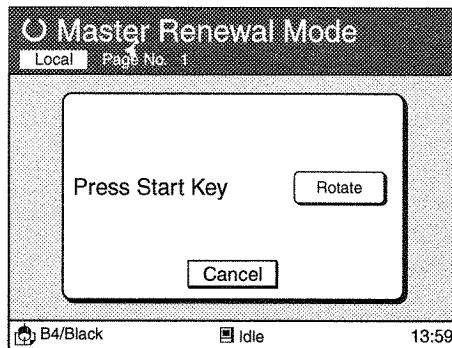
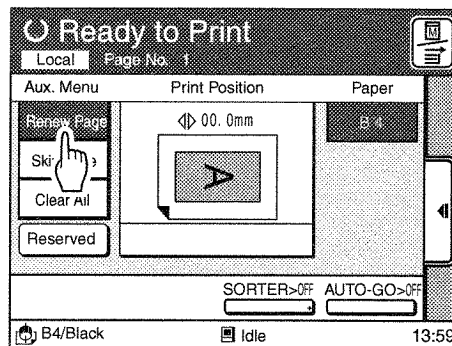
Important!

- [Renew Page] operation is not available in the following cases.
 - After turning on the Main Power switch or pressing the Reset key.
 - After the confidential operation.
 - After Multi-up printing.
 - After printing out the optional Key/Card counter's volume check sheet.
 - When an error occurs before the master-making operation completes.
- If the [Renew Page] button is not displayed on the Main-panel window, activate the [[Renew Pg] Display] function on the [Properties] window.
- The [Renew Page] function can also be activated on the [Functions] window.

1 Touch the (Renew Page) button on the Main-panel window.

The instruction message box appears. Touch the [Cancel] button to cancel this operation.

In the Data mode, touch the [Rotate] button to rotate the image by 180 degrees, if necessary. To cancel this function, touch the button again.



2 Press the Start key.

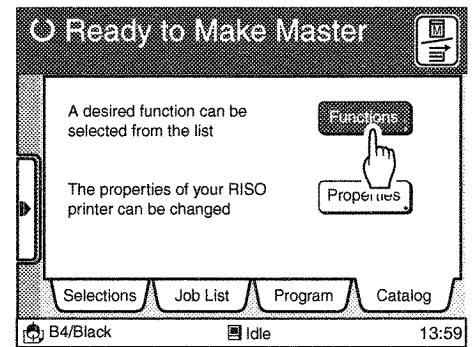
Protecting Confidential Documents

[Confidential Mode]

After printing is complete, the master remains on the Print Cylinder (Drum). Copies of this master can be printed at any time by pressing the Start key. To protect confidential documents from unauthorized duplication, activate the Confidential feature to discard the master after printing.

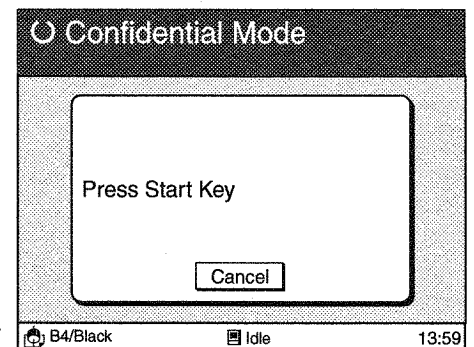
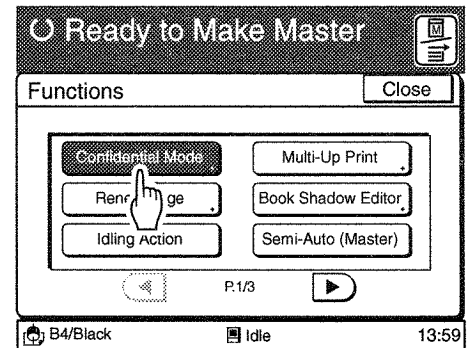
1 Confirm that printing has ended.

2 Display the (Catalog) tab on the sub-panel window, and then touch the (Functions) button.

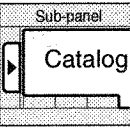
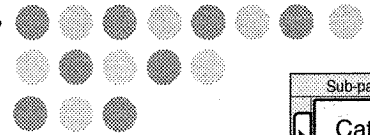


3 Touch the (Confidential Mode) button.

The instruction message box appears. Touch the [Cancel] button to cancel this operation.



Printing Originals Side by Side



[Multi-Up Printing]

The same or different originals can be printed side by side and, if required, each original can have different settings: reproduction size (Reduce/Enlarge), scanning contrast and processing (Line/Photo/Duo).

You can select how they are arranged side by side on a single sheet, from the following pattern: 2-by-1 (2UP), 2-by-2 (4UP), 4-by-2 (8UP) and 4-by-4 (16UP).

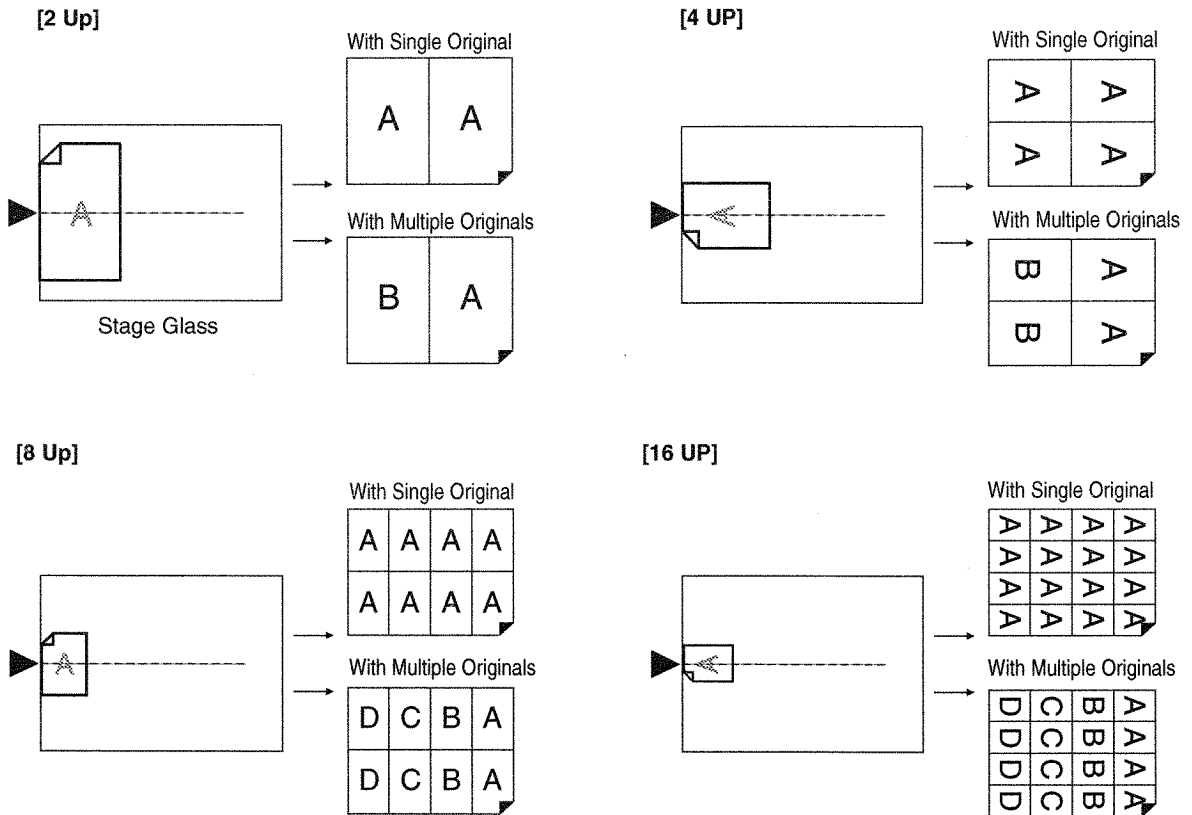
Irregular sized original, such as tickets, are also applicable for this feature ([Multi-Up Tickets] feature).

Important!

The [Auto] reduction/enlargement function is not available for the Multi-Up printing. (The reproduction ratio returns to 100%.)

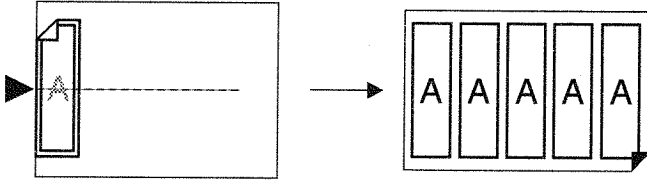
<Reference for Original Placement Direction and Print Results>

Only one original placement direction is available for each Multi-Up pattern.



Printing Originals Side by Side

[Multi-up Ticket]




A single original is only available for the [Multi-Up Ticket] feature.

<Reference Charts for Multi-Up Printing Operation>


Refer to the charts below the combinations of the respective Multi-Up patterns: original size, printing paper size and size adjustment requirement.

= USA Models =

[2UP / 8UP]


Original Placement	Direction	Original Size	Original Size	
			2UP	8UP
	Legal	77%	100%	50%
	Letter	66%	100%	50%
	Statement	50%	66%	-

[4UP / 16UP]


Original Placement	Direction	Original Size		
		4UP	Letter	Statement
	Legal	50%	50%	77%
	Letter	-	50%	66%
	Statement	-	-	50%

= Metric Models =

[2UP / 8UP]

Original Placement	Direction	Original Size	Original Size					
			2UP				8UP	
	B4	87%	100%	122%	141%	50%	61%	71%
	A4	71%	82%	100%	116%	-	50%	58%
	B5	61%	71%	87%	100%	-	-	50%

[4UP / 16UP]

Original Placement	Direction	Original Size							
		4UP					16UP		
	B4	50%	61%	71%	87%	100%	50%	61%	
	A4	-	50%	58%	71%	82%	-	50%	
	B5	-	-	50%	61%	71%	-	-	

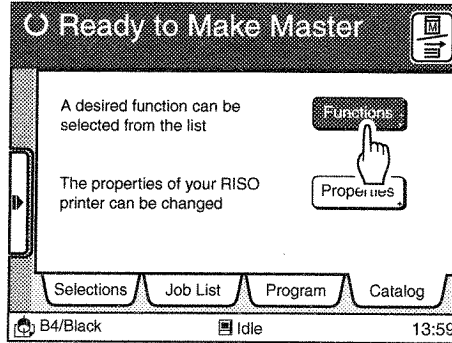
Printing Originals Side by Side

- NOTE** • An original should have a top margin of 5mm (approx. ¼").
- ☞ **p.19...** Originals
- The margin will remain regardless of the reproduction size.
 - The original size that can be set in the ADF unit (optional) is between A6 (90 × 140 mm or 3½" × 5½") and A3 (297 × 420 mm) or Ledger (11" × 17").
 - The following functions can be specified for each original.
 - Image processing ([Line], [Duo], [Photo], [Dot Photo], [Contrast Enhance].)
 - Scanning contrast adjustment
 - Reproduction size (Reduction/Enlargement)

Printing Originals Multi-Up

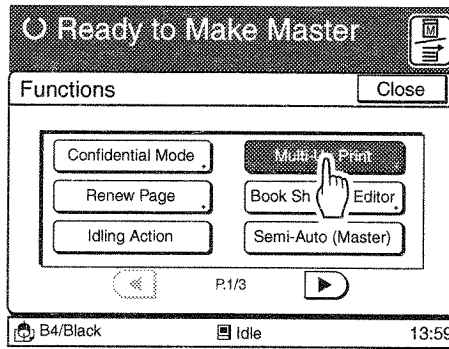
- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

The [Functions] window appears.



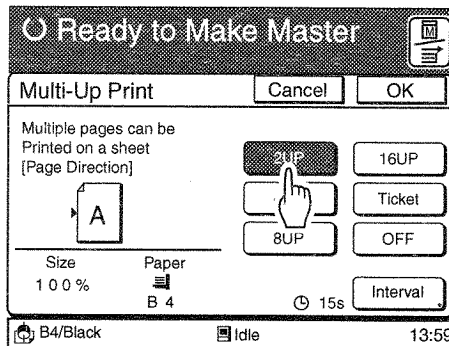
- 2 Touch the (Multi-Up Print) button.

The [Multi-Up Print] window appears.



- 3 Select a Multi-Up pattern and touch the button.

Select [2UP], [4UP], [8UP] or [16UP].

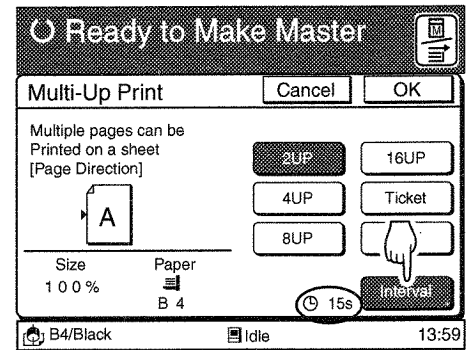


Printing Originals Side by Side

4 Specify the (Multi-Up Interval) when necessary.

When multiple originals are used in the Multi-Up printing feature, place them on the Stage Glass individually. The printer scans the first original and then provides an interval to enable you to place the next original.

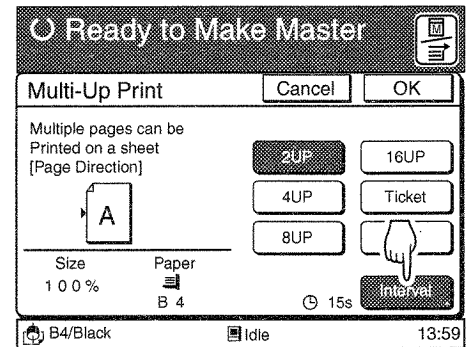
- The [Multi-Up Interval] can be set between 0 and 99 seconds. (The default setting is 0 (zero) second.)
- The current [Multi-Up Interval] setting can be confirmed on the Main Display.



Changing the [Multi-Up Interval]

1. Touch the [Interval] button on the [Multi-Up Print] window.

The [Multi-Up Interval] window appears.

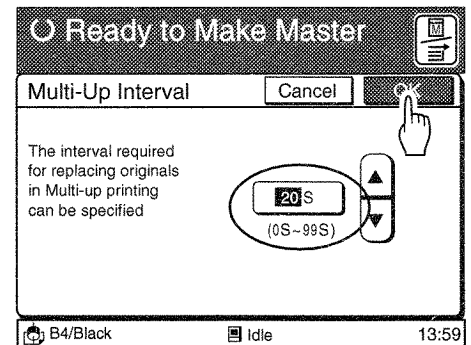


2. Specify the [Interval] by touching the [▲] and [▼] buttons.

- This value can also be specified with the Print Quantity keys.
- Press the [C] key to return the value to 0 (zero).

Important!

Ensure that a sufficient period has been set for the [Multi-Up Interval] to allow you to place the next original on the Stage Glass when performing Multi-Up printing with multiple original, or when changing the settings for each original.



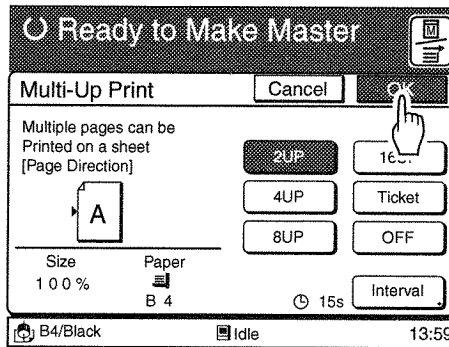
3. Touch the [OK] button.

The window returns to the [Multi-Up Print] window.

Printing Originals Side by Side

5 Touch the (OK) button.

The [Functions] window appears.

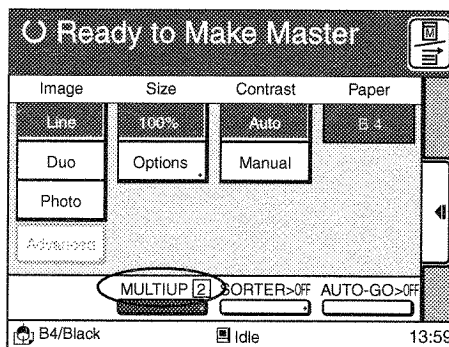


6 Touch the (Close) button.

The window returns to the Main-panel window.

NOTE The icon which shows the current [Multi-Up] setting is displayed above the [MULTIUP] button on the Main-panel window when the [[Multi-Up Button] Display] feature is activated.

☞ p.138... Customizing the Initial Settings



7 Place an original face-down on the Stage Glass or in the optional ADF Unit.

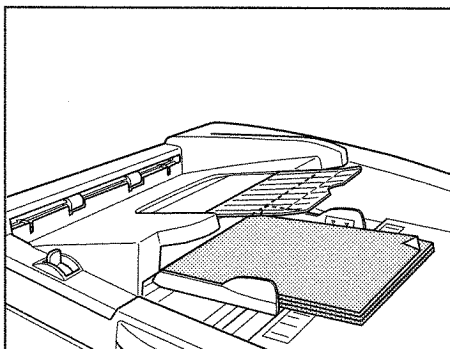
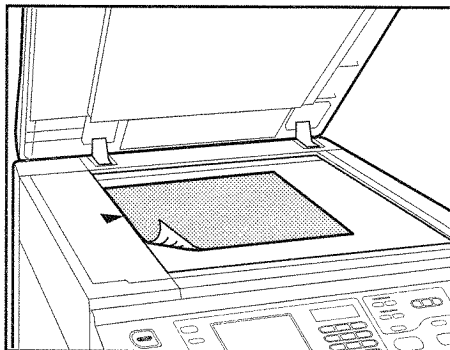
If the optional ADF Unit is installed on your printer:

You can place all originals there at the same time. In this case, you have only to press the Start key after selecting a desired Multi-Up pattern and placing originals, in order to make desired-pattern Multi-Up prints.

By activating the Auto Process feature, besides, different Multi-Up prints can be produced without interruption until all originals placed there are processed.

For the Auto Process feature, refer to page 66.

NOTE When different settings are required for each original, place originals on the Stage Glass or in the optional ADF Unit individually, as instructed below.



Printing Originals Side by Side

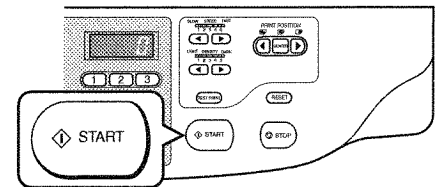
8 Make necessary settings.

- NOTE** • The following functions can be specified for each original.
- Image processing ([Line], [Duo], [Photo], [Dot Photo], [Contrast Enhance])
 - Scanning contrast adjustment.
 - Reproduction size (Reduction/Enlargement)
- You can recall the saved settings quickly.
- **p.110...** Storing Settings in Memory

9 Press the Start key.

< When printing the same original Multi-Up >

The original is scanned twice or four times and a sample Multi-Up print is produced.



< When printing multiple originals Multi-Up >

Important!

The Stage Glass and the optional ADF unit cannot be used together in the multiple-originals Multi-Up printing. If the first original has been scanned with the Stage Glass, ensure that the second and subsequent originals are also set on the Stage Glass.

● When the originals are set on the Stage Glass or are set separately in the ADF unit

Ensure that the [Multi-Up Interval] is set at a value other than [0 second].

After the first original is scanned, a beep sounds to request the next original to be placed.

During the beep, change the settings if necessary, and place the second original on the Stage Glass or in the optional ADF Unit. Then press the Start key.

(This procedure must be repeated three times for the [8 Up] and [16 UP] printing.)

● In the ADF unit

The originals are scanned continuously when the [Multi-Up Interval] is set at [0 seconds]. A test print will be printed after all originals are scanned.

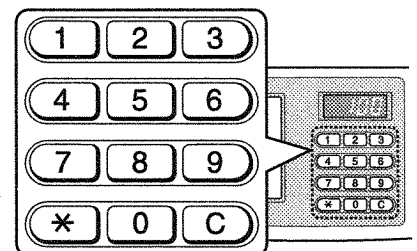
Important!

There will be half or three quarter blank on the printed copies if :

- The next original has not been set in place during the [Multi-Up Interval].
- The Stop key has been pressed during the operation.
- The Start key has been pressed without the next page being set in place.

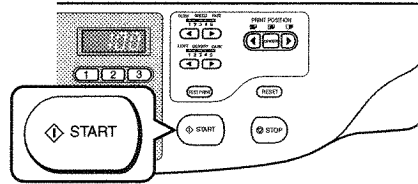
10 Enter the number of copies to be printed.

Specify the number of copies to be printed using the Print Quantity keys.



Printing Originals Side by Side

11 Press the Start key.



Printing Tickets

The number of duplicated images (tickets) per copy is determined by the following formula:

$$[\text{Length of the printing paper}] \div [\text{Width of the ticket}]$$

The range of the width of the tickets to be specified is shown on the Main Display. The length of the printing paper is automatically sensed by the printer.

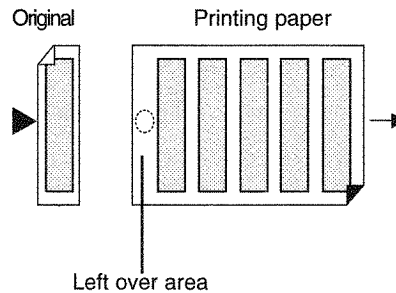
(Example)

Width of the original: 50mm

Length of the printing paper: 297mm (A4 size)

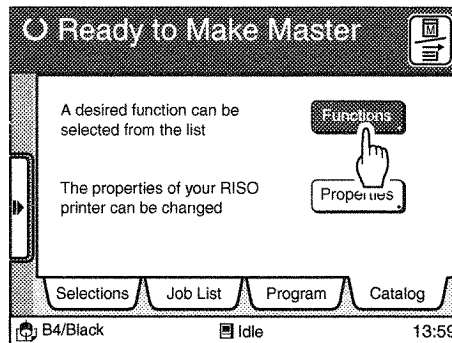
$297(\text{mm}) \div 50(\text{mm}) = 5$ (pieces) with 47 (mm) left over.

In this example, five pieces of tickets will be printed per copy.



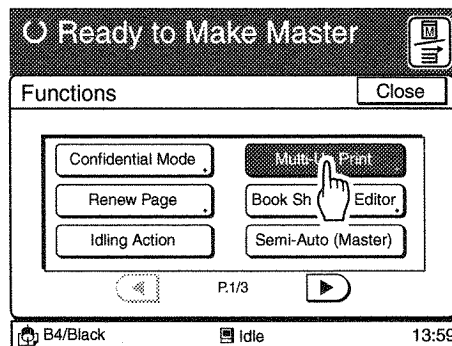
1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

The [Functions] window appears.



2 Touch the (Multi-Up Print) button.

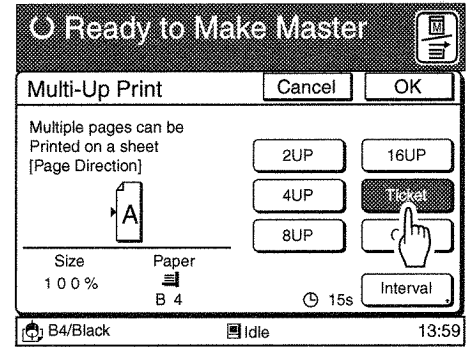
The [Multi-Up Print] window appears.



Printing Originals Side by Side

3 Touch the (Ticket) button.

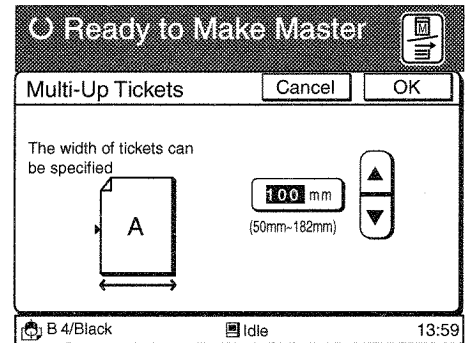
The [Multi-Up Ticket] window appears.



4 Specify the width of the tickets by touching the(▲) and (▼) buttons.

The range of the width of the tickets to be specified is shown on the window.

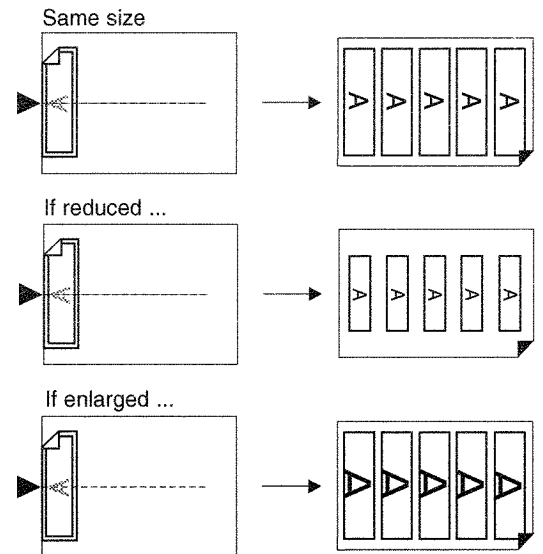
- NOTE**
- The value can be specified with the Print Quantity keys also.
 - Press the [C] key to return to the default setting.



Important!

Take note of the following points when specifying the width of the tickets if you change the reproduction ratio.

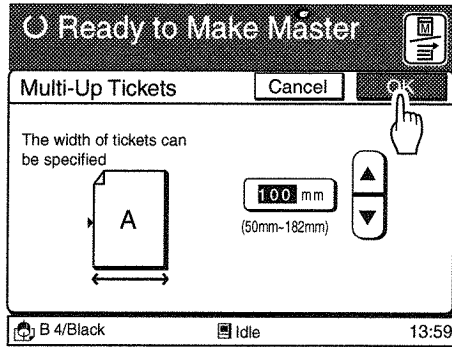
- Specify the enlarged / reduced width of the ticket.
- Set printing paper that matches the enlarged / reduced size of the ticket beforehand.



Printing Originals Side by Side

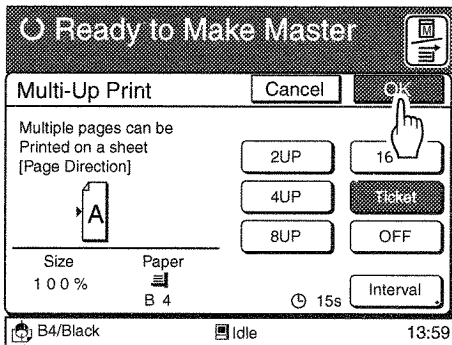
5 Touch the (OK) button.

The window returns to the [Multi-Up Print] window.



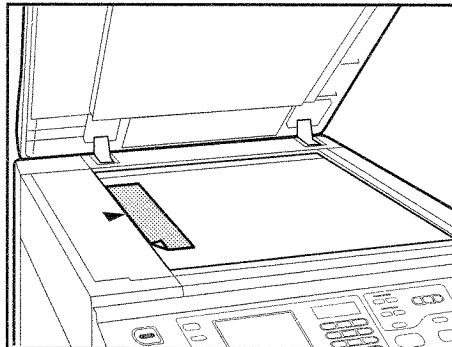
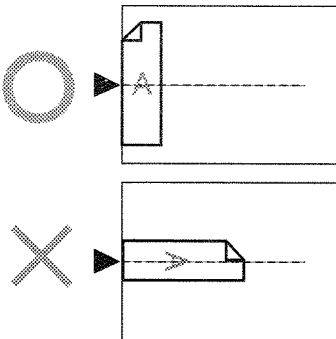
6 Touch the (OK) button.

The window returns to the [Functions] window.



7 Place an original face-down on the Stage Glass.

The original should be placed on the Stage Glass as shown below.

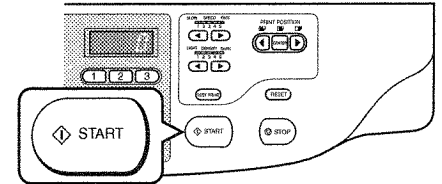


Printing Originals Side by Side

8 Make necessary settings.

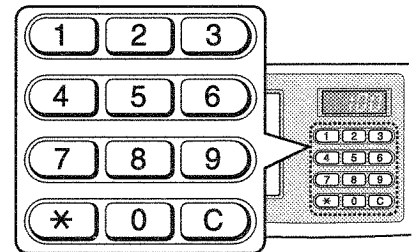
- NOTE** • The following functions can be specified for each original.
- Image processing ([Line], [Duo], [Photo], [Dot Photo], [Contrast Enhance].)
 - Scanning contrast adjustment
 - Reproduction size (Reduction/ Enlargement)

9 Press the Start key.

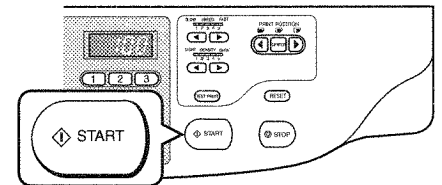


10 Enter the number of copies to be printed.

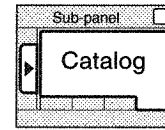
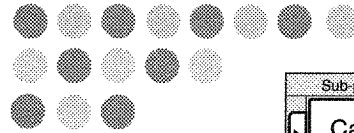
Specify the number of copies to be printed using the Print Quantity keys.



11 Press the Start key.



Changing Printing Paper Information



For trouble-free printing, set the following information for the printing paper to be used when different type/size of paper has been loaded.

[Paper Size Entry]

Sets the size of the printing paper to be used.

[Paper Type Entry]

Sets the type of the printing paper to be used. (The Paper Feed Pressure Adjustment lever must also be adjusted when the paper type has been changed.)

[Paper Finish Entry]

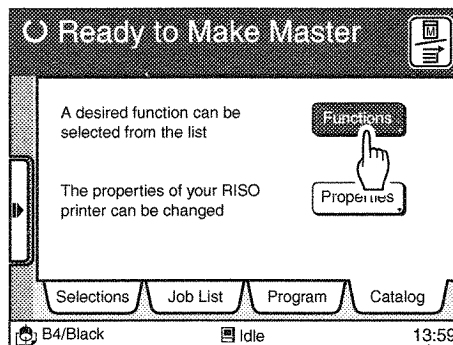
Sets the paper information which will be displayed on the PC monitor in the Data mode with use of the utility software RISO-MONITOR.



NOTE When paper with a different size to the previous one has been set in place, the [Paper Stock Change] window will be displayed to enable you to change the setting. On the other hand, when a different type of paper with the same size is set, modify the setting yourself on the [Paper Data Entry] display.

- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

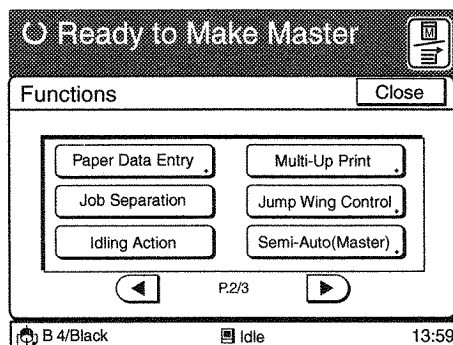
The [Functions] window appears.



- 2 Display the (Paper Data Entry) button.

Touch the [◀] or [▶] button to display the required function button.

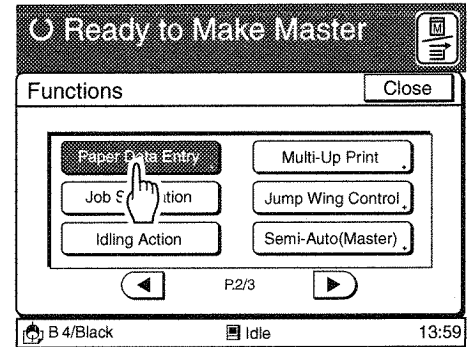
NOTE The number of function buttons will differ depending on the model and the configuration of the optional devices.



Changing Printing Paper Information

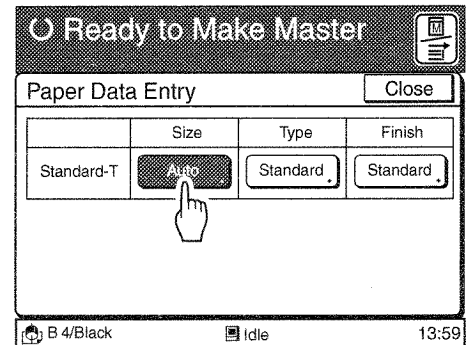
3 Touch the (Paper Data Entry) button.

The [Paper Data Entry] window appears.



4 Touch the Paper Size Selection button.

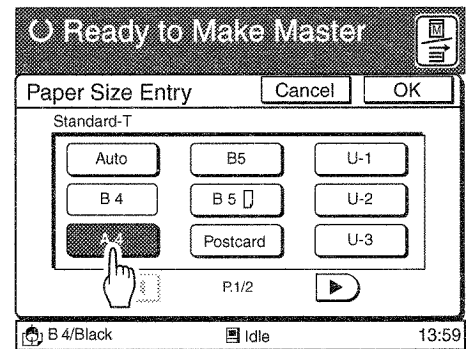
The [Paper Size Entry] window appears.



5 Touch the required Paper Size button.

When selecting [Auto] in this window, the size of the loaded paper will be detected and the printing area will be defined automatically.

NOTE When a paper size other than [Auto] is selected on this window, a bar will appear under the paper size display on the Main-panel window.



Important!

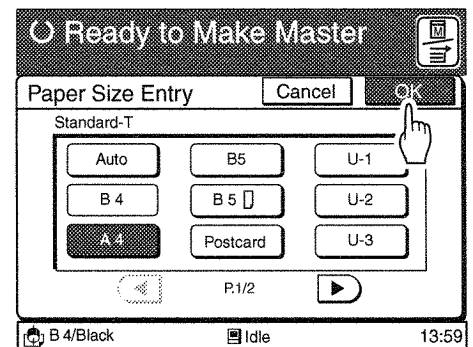
If nonstandard-sized printing paper is to be used, register the size on the [Custom Paper Entry] window in the [Properties].

☞ p.130... Registering Nonstandard Paper

6 Touch the (OK) button.

The window returns to the [Paper Data Entry] window.

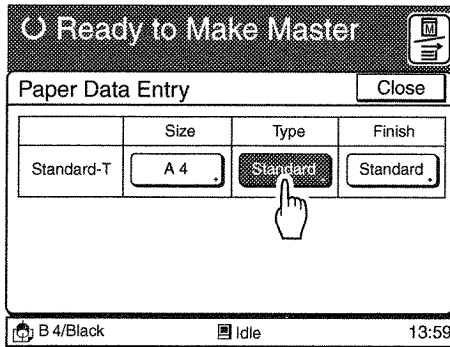
Touch the [Cancel] button to return to the [Paper Data Entry] window without changing the setting.



Changing Printing Paper Information

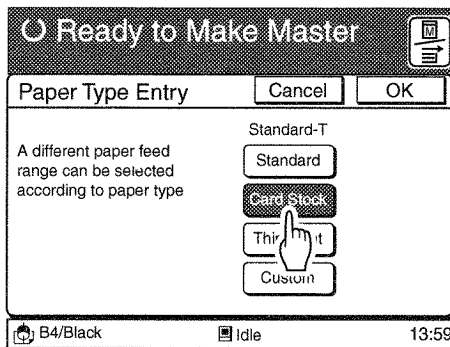
7 Touch the Paper Type Selection button.

The [Paper Type Entry] window appears.



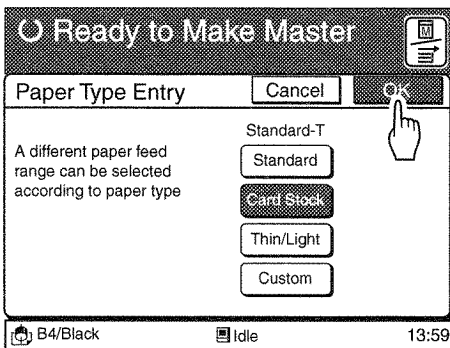
8 Touch the required Paper Type button.

Standard	Standard paper
Card Stock	Thick paper, slippery paper
Thin/Light	Thin paper, Fine paper
Custom	Paper for which special adjustment is required in feeding



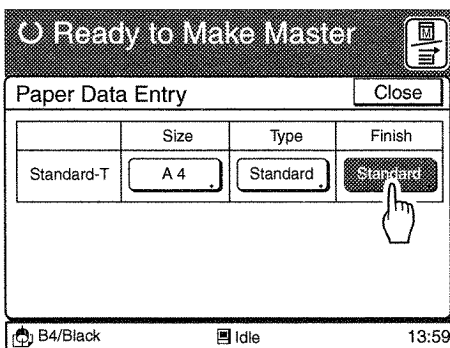
9 Touch the (OK) button.

The window returns to the [Paper Data Entry] window.
Touch the [Cancel] button to return to the [Paper Data Entry] window without changing the setting.



10 Touch the Paper Finish Selection button.

The [Paper Finish Entry] window appears.



Changing Printing Paper Information

11 Touch the required Paper Finish button.

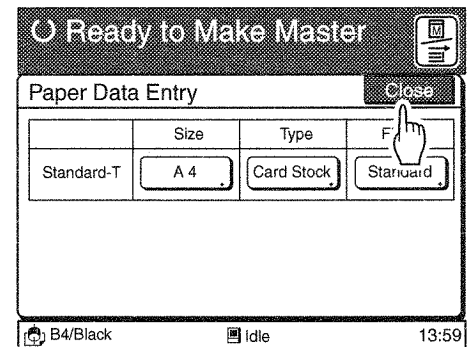
When the optional utility software, RISO-MONITOR, is used, the information specified in this window can be confirmed with your personal computer.
For detailed information about the RISO-MONITOR, refer to the dedicated operation guide.

12 Touch the (OK) button.

The window returns to the [Paper Data Entry] window.

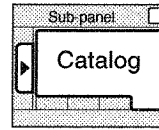
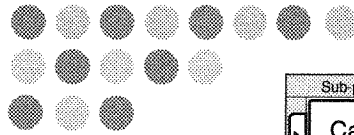
13 Touch the (Close) button.

The window returns to the [Functions] window.



Preventing Paper Ejection Error

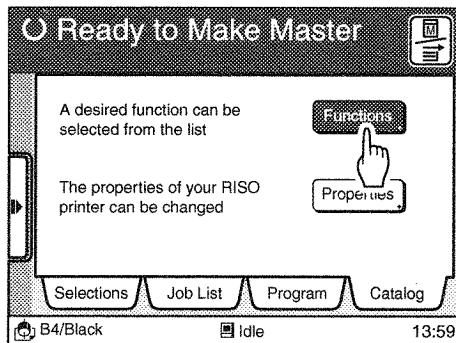
The Jump Wings are automatically adjusted according to the paper size to guide the printed copies to be stacked into the Paper Receiving Tray precisely. For the nonstandard-type paper, you can register a custom setting. Consult your service representative for further details.



Controlling the Jump Wings

- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

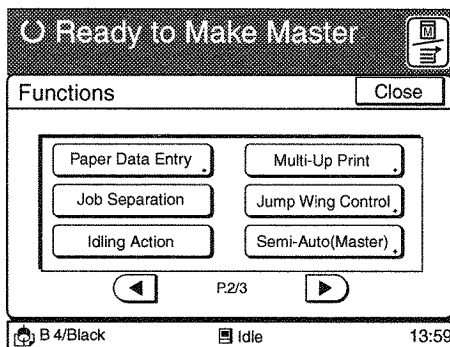
The [Functions] window appears.



- 2 Display the (Jump Wing Control) button.

Touch the [◀] or [▶] button to display the required function button.

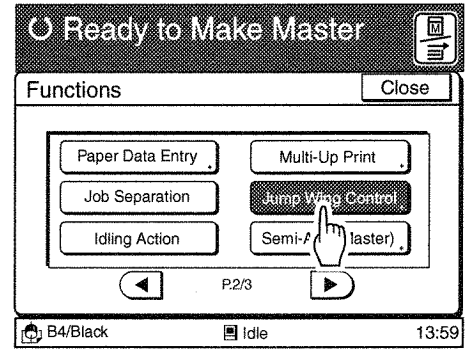
NOTE The number of function buttons will differ depending on the printer model and the configuration of the optional devices.



Preventing Paper Feed/Ejection Error

3 Touch the (Jump Wing Control) button.

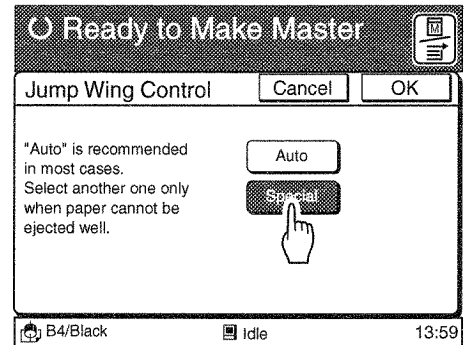
The [Jump Wing Control] window appears.



4 Touch the (Auto) button or the (Special) button.

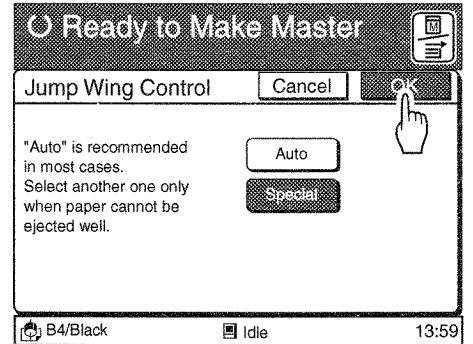
[Auto]..... The Jump Wings will be adjusted automatically according to the printing paper size. (Default setting)

[Special] ... The Jump Wings will be set at the customized position.
Select this setting when printing on custom paper.
Be sure to customize the setting beforehand.

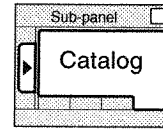
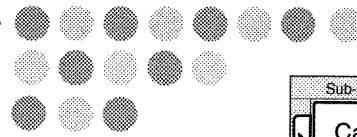


5 Touch the (OK) button

The window returns to the [Functions] window.

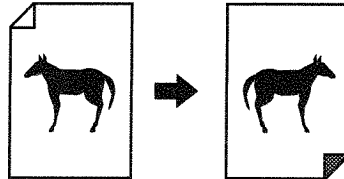


Reversing Images



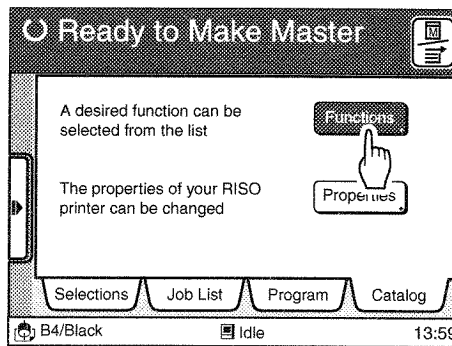
(Mirror Image Print)

You can reverse the image on prints.



- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

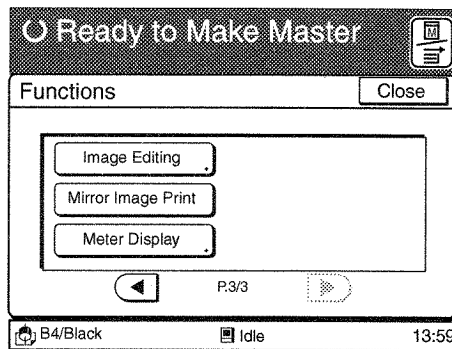
The [Functions] window appears.



- 2 Display the (Mirror Image Print) button.

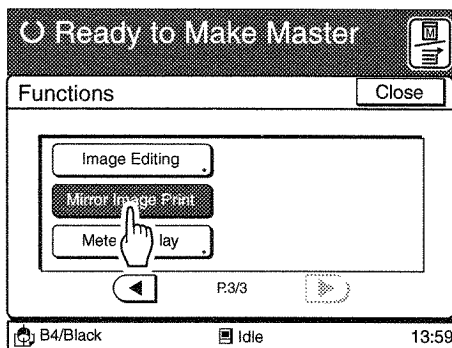
Touch the [◀] or [▶] button to display the required function button.

NOTE The number of function buttons will differ depending on the printer model and the configuration of the optional devices.

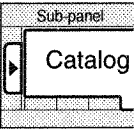
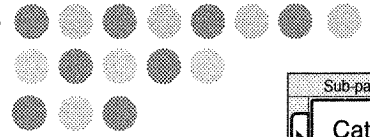


- 3 Touch the (Mirror Image Print) button.

The setting for this function will switch between [ON] and [OFF] whenever the [Mirror Image Print] button is touched.



Confirming the Usage Count of the Printer



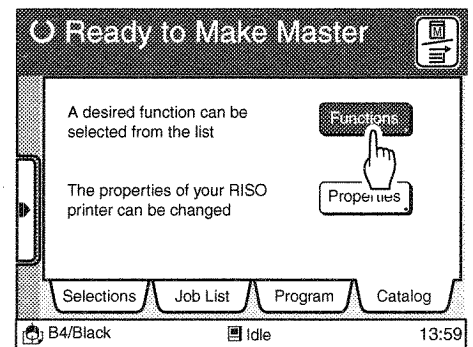
The following details can be displayed on the Main Display.

- Copy Count : The total number of copies printed on the printer.
- Master Count : The total number of masters used on the printer.
- Print Drum Master: The number of copies printed with the Print Cylinder (Drum) currently set in place.

NOTE When several Print Cylinders (Drums) are in use, set the Print Cylinder (Drum) for which the copy count is required in the printer beforehand.

1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

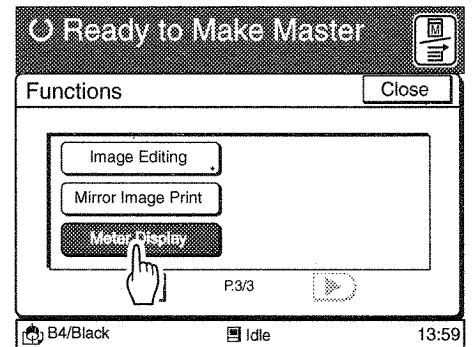
The [Functions] window appears.



2 Display the (Meter Display) button.

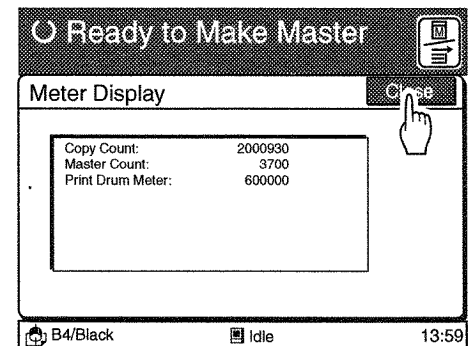
Touch the [◀] or [▶] button to display the required function button.

NOTE The number of function buttons will differ depending on the printer model and the configuration of the optional devices.

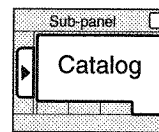
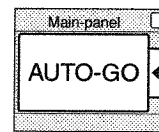
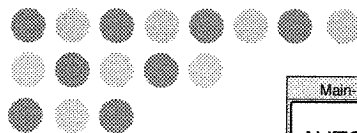


3 Touch the (Meter Display) button.

The [Meter Display] window appears.
To close the window, touch the [Close] button.



Changing Process Flow on the Printer



Although the Process flow in the Data mode is usually specified with the printer driver, the setting can also be changed on the printer if the [Full Auto] process is not selected at the time of data transmission.

Refer to page 34 for further information on the configurable settings during the respective pauses.

☞ p.34... Auto Process Function

Important!

Set the Auto Process setting to [OFF(Manual)] with the printer driver when changing the Auto process timing on the printer.

NOTE Refer to the dedicated user's guide for the printer driver for details on making the settings with the printer driver.

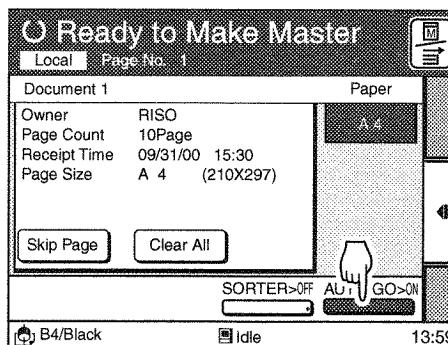
Setting up Auto Process

Touch the (AUTO-GO) button on the Main-panel window.

Each time you touch the button, the function is switched between [ON] and [OFF].



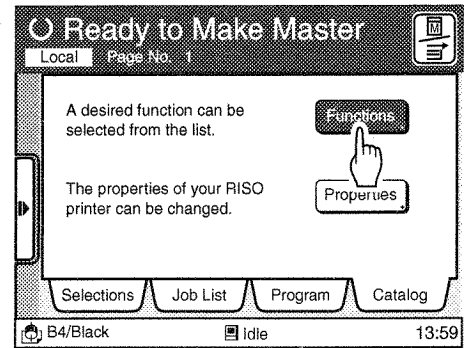
NOTE For further details on the Auto-process, refer to the chapter [Automatic Printing (Auto Process)] on page 66.



Setting up Semi-Auto Process

- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

The [Functions] window appears.



- 2 Touch the (Semi-Auto (Master)) or (Semi-Auto (Print)) button.

Select a Semi-Auto Process pattern.

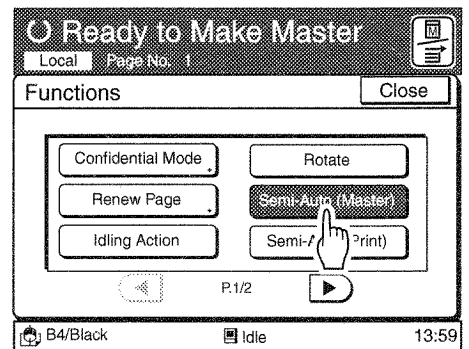
[Semi-Auto (Master)]

Automatically starts master-making operation for the next original (page data) after previous printing has finished. After the master-making and test-printing, the print job is suspended.

[Semi-Auto (Print)]

Automatically starts printing operation after master-making operation. After the printing, the print job is suspended.

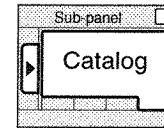
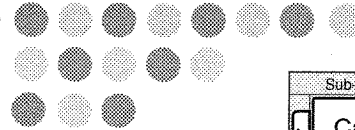
- NOTE**
- Touch the button again to cancel the setting.
 - The [Semi-Auto (Master)] and [Semi-Auto (Print)] buttons cannot be selected together.



Important!

Even if you specify the Auto Process timing on the printer, the setting will be neglected when the next document data is transmitted with other Auto Process settings.

Rotating Images by 180 Degrees



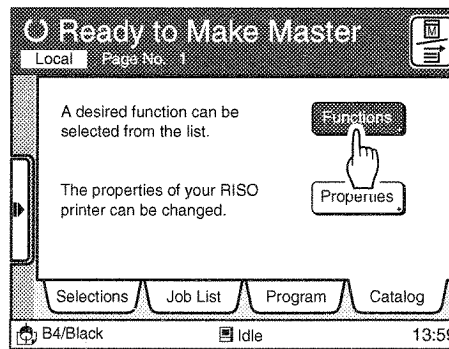
You can rotate images in the received document data by 180 degrees before printing them out. This function will be useful to improve paper ejection condition in case printed copies cannot be ejected well due to the presence of large solid areas at the page top, or to print on special paper whose feed direction is limited to one way.

The setting for this function is available only before master-making process.

NOTE When you select the 180-degree image rotation feature for the current print job on the computer, avoid selecting this function. Otherwise, the 180-degree image rotation feature will be canceled.

- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Functions) button.

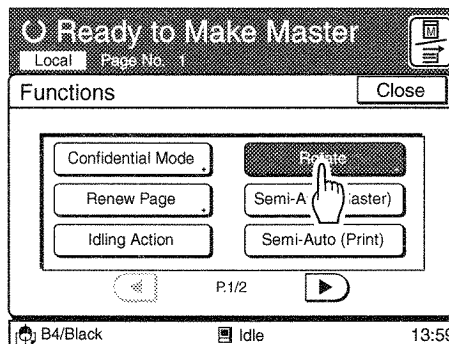
The [Functions] window appears.



- 2 Touch the (Rotate) button.

Touch the [Rotate] button once again to cancel this function.

- NOTE**
- Master-making with the [Rotate] function will start when the Start key is pressed.
 - The [Rotate] setting on the printer driver takes precedence over the setting on the printer (if the next document data is transmitted with new settings, the latest settings will be effective).

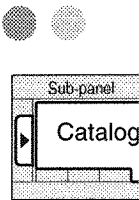


Recalling Functions Quickly

You can register shortcut buttons for frequently-used functions on the [Selections] tab to select the functions quickly.

Up to eight functions can be registered (including the factory set functions) and the selections can be replaced with other functions later, if necessary.

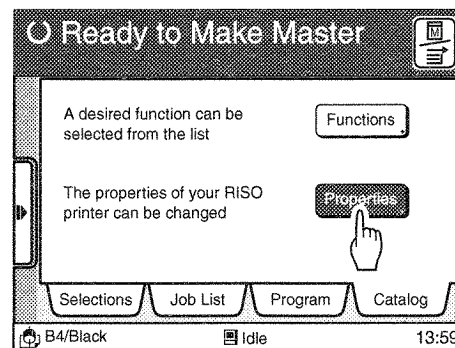
NOTE The [Selections] tab displayed in the Copy mode is completely independent from selections displayed in the Data mode.



Registering Frequently-Used Functions

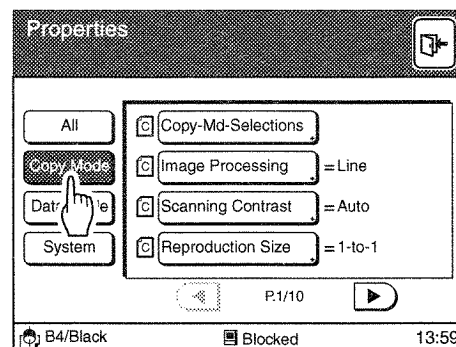
- 1 Display the (Catalog) tab on the sub-panel window and then touch the (Properties) button.

The [Properties] window appears.

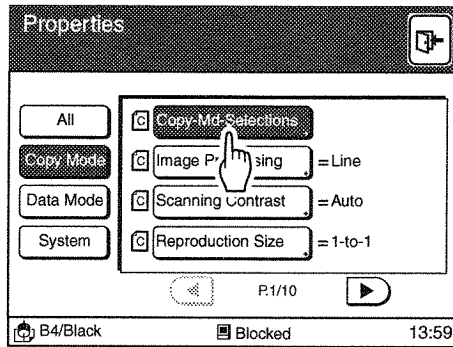


- 2 Touch the (Copy Mode) or (Data Mode) button.

Select the mode in which you intend to register the function buttons on the [Selections] tab.



3 Touch the (Copy-Md-Selections) or (Data-Md-Selections) button.

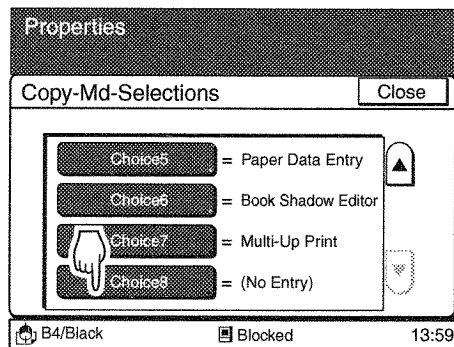


4 Touch one of the (Choice) frames with (No Entry).

The names of the functions currently registered in the [Selections] tab will be displayed beside the [Choice] frames. [No Entry] will be displayed for the vacant frame.

If no vacant [Choice] frame exists on the window, display one that can be replaced with other function by scrolling through the list with the [▼▲] buttons.

☞ **p.106...** Changing Registered Functions



Functions that can be registered in the [Copy-Mode-Selections]

- Confidential Mode ○ Renew Page ● Idling Action ● Multi-Up Print ● Book Shadow Editor
- Semi-Auto (Master)* ● Paper Data Entry ○ Jump Wing Control ○ Image Editing*
- Mirror Image Print ○ Meter Display.

Functions that can be registered in the [Data-Mode-Selections]

- Confidential Mode ○ Renew Page ● Idling Action ● Rotate ○ Semi-Auto (Master)
- Semi-Auto (Print) ○ Jump Wing Control ○ Meter Display

● ... The functions previously registered as default.

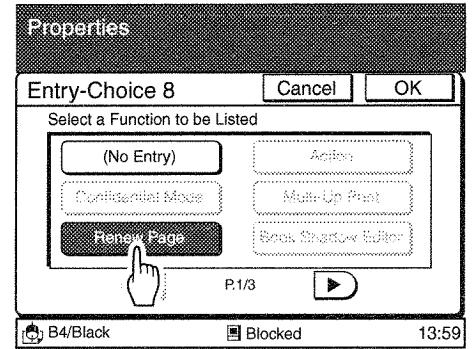
* ... Displayed depending on the printer model and the configuration of the optional devices.

Recalling Functions Quickly

5 Touch the button of the function name to be registered.

If the required button is not displayed on the window, touch the [◀] and [▶] buttons to scroll through the list.

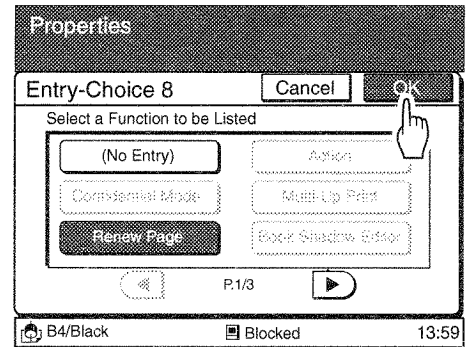
- NOTE**
- Only non-registered functions can be added to the [Selections] tab. The functions that cannot be selected will be grayed out.
 - [No Entry] can be selected. In this event, a button that cannot be selected will be displayed on the [Selections] tab.



6 Touch the (OK) button.

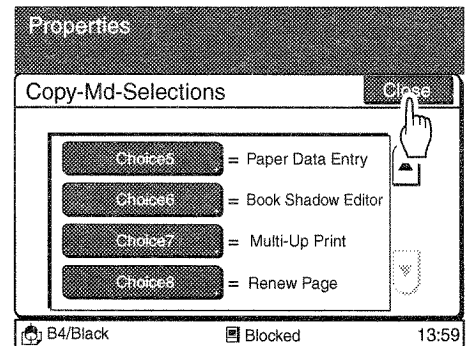
The new function name (or [No Entry]) will be displayed beside the [Choice] button.

- NOTE**
- Touch the [Cancel] button to cancel the registration.



7 Touch the (Close) button.

The window returns to the [Properties] window.

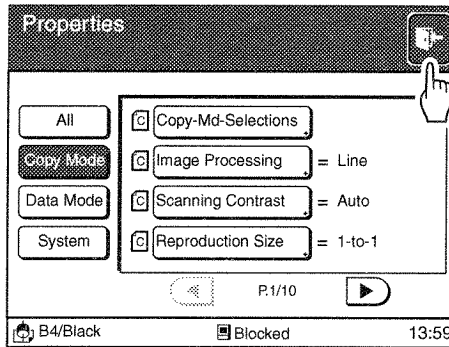


Recalling Functions Quickly

8 Touch the (Exit) button on the upper right corner of the window.

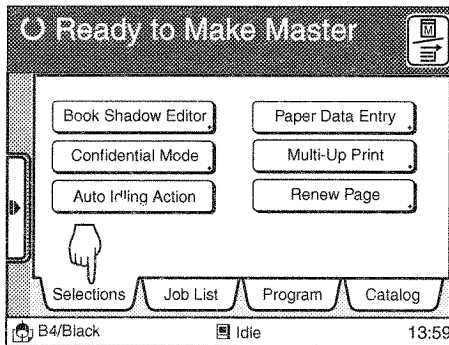
The setting change will be confirmed.

- The registered functions can be recalled with a single touch from the [Selections] tab.
- The function registered or changed will remain valid until replaced.



9 Display the (Selections) tab on the sub-panel window and confirm the results of the registration.

The newly-registered function button will be displayed.

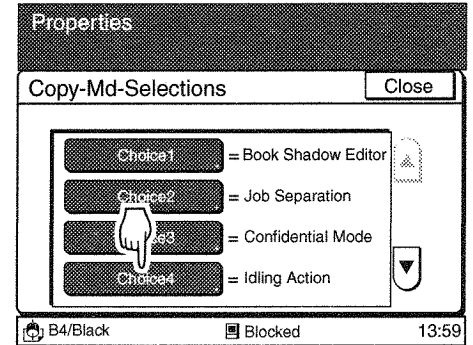


Changing Registered Functions

1 Touch the (Choice) button whose function to be changed.

The [Entry-Choice] window appears. [No Entry] will be displayed beside vacant [Choice] frames.

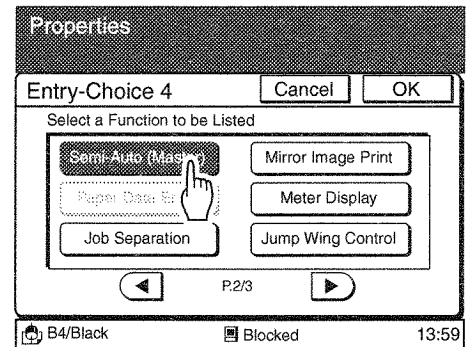
- Refer to the steps 1 to 3 in the [Registering Frequently-Used Functions] on page 102 for the procedures required to display [Copy-Md-Selections] or [Data-Md-Selections] window.
- If the required button is not displayed on the window, touch the [▲] and [▼] buttons to scroll through the list.



2 Touch the function button to be newly registered.

If the required button is not displayed on the window, touch the [◀] and [▶] buttons to scroll through the list.

- NOTE** ▶ Only non-registered functions can be added to the [Selections] tab. The buttons that cannot be selected will be grayed out.
- [No Entry] can be selected. In this event, a button that cannot be selected will be displayed on the [Selections] tab.

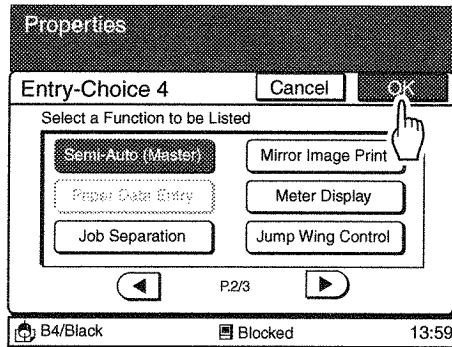


Recalling Functions Quickly

3 Touch the (OK) button.

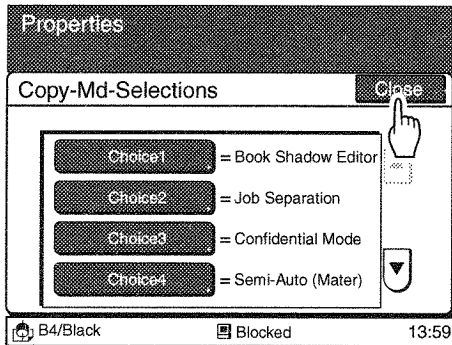
The setting change will be confirmed and the new function name (or [No Entry]) will be displayed beside the [Choice] frame.

NOTE Touch the [Cancel] button to cancel the modification.



4 Touch the (Close) button.

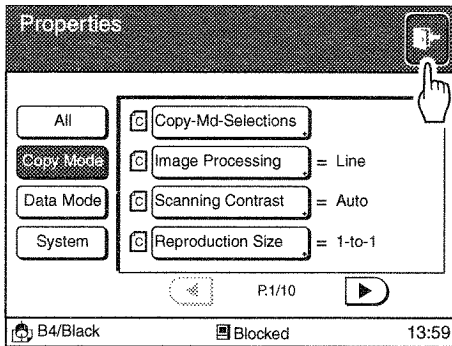
The window returns to the [Properties] window.



5 Touch the (Exit) button on the upper right corner of the window.

The result of the setting will be displayed. Display the [Selections] tab on the sub-panel window and check the selection has been changed.

- The registered functions can be recalled with a single touch from the [Selections] tab.
- The function registered or changed will remain valid until replaced.

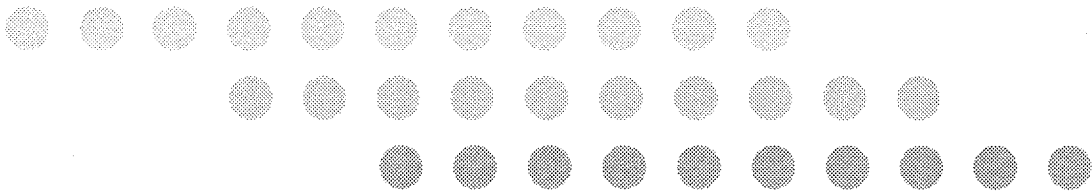




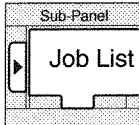
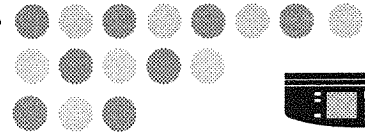
Advanced Features

This section describes advanced features that may be used for advanced needs.

Storing Settings in Memory	110
Automatic Sorting into Groups	117
Registering Nonstandard Paper	130
Customizing the Initial Settings	138



Storing Settings in Memory



The Print Job Memory feature is a flexible tool for automating frequently used or complicated combinations of settings for print jobs. You can store up to 24 combinations of frequently used or complex print-job settings and apply them to new print jobs whenever necessary.

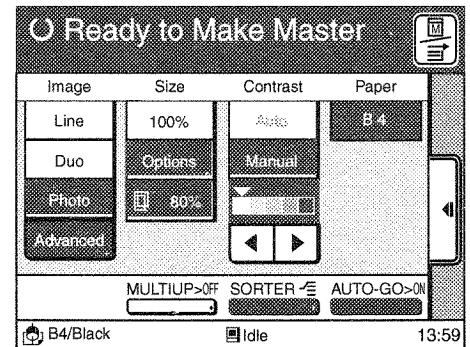
The settings of the following print job elements can be registered in memory for quick recall.

- Image Processing
- Auto Process
- Program Printing
- Print Speed
- Book Shadow Editor
- Scanning Contrast
- Paper Type Entry
- Sorting*
- Print Position Adjustment
- Print Density
- Semi-Auto (Master)*
- Jump Wing Control
- Margin+
- Paper Finish Entry
- Reproduction Size
- Print Quantity
- Multi-Up Printing
- Job Separation*
- Mirror Image Print
- Paper Size Entry

* The items which can be registered in memory depending on the printer model and the configuration of the optional devices.

Saving the Current Print Job Setting

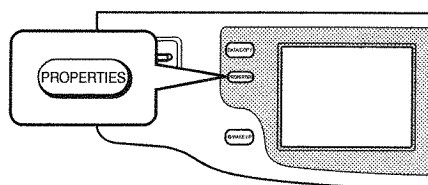
1 Set up desired settings.



Storing Settings in Memory

2 Press the Properties key.

The [Current Job Design] window appears.



[Current Job Design] window

You can confirm the current print settings on the Main Display when the Properties key is pressed.

- Use the [▲] and [▼] buttons to scroll through the display line-by-line.
- The items displayed on the [Current Job Design] window with the "◆" symbol beside them will be registered in memory. Check the details of the settings to confirm that the parameters are set as required. If the parameters are not correct, close the window and revise the settings.
- For the items which are not shown on the window, the default setting will be registered in memory.



3 Touch the (Job List Entry) button.

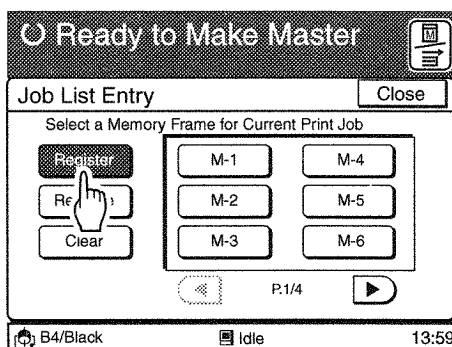
The [Job List Entry] window appears.



4 Touch the Register button.

A message [Select a Memory Frame for Current Print Job] appears.

- Only the Memory Frame buttons which are not occupied with print job settings can be selected.
- If no vacant Memory Frame button is displayed on the window, scroll through the list by touching the [◀] or [▶] button.



Important!

If no available Memory Frame button exists in the list or a desired one is occupied, erase a job setting once and register the new setting in it.

☞ p. 115... Erasing a Saved Print Job Setting

Storing Settings in Memory

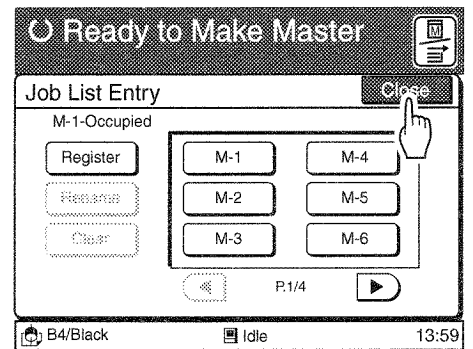
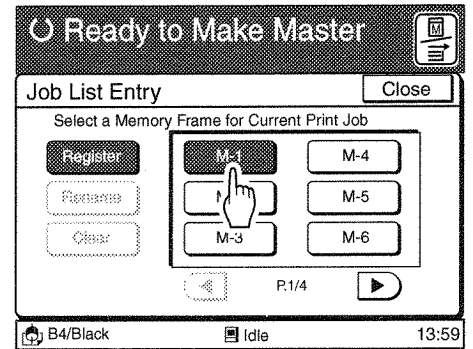
5 Touch a vacant (Memory Frame) button.

The settings confirmed on the [Current Job Design] window will be registered in memory, and a message [(Memory Name)-Occupied] will be displayed.

- NOTE**
- The same settings will be registered in memory if another vacant [Memory Frame] button is pressed at the same time.
 - You can give a desired name to the saved print job setting in this step.
➤ **p. 113...** Renaming a Saved Print Job Setting

6 Touch the (Close) button.

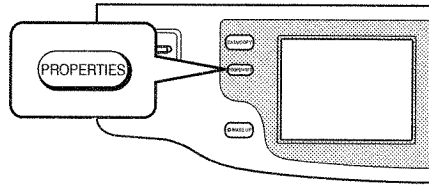
The window returns to the [Current Job Design] window.



Renaming a Saved Print Job Setting

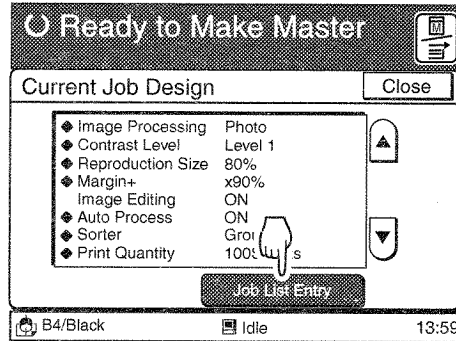
1 Press the Properties key.

The [Current Job Design] window appears.



2 Touch the (Job List Entry) button.

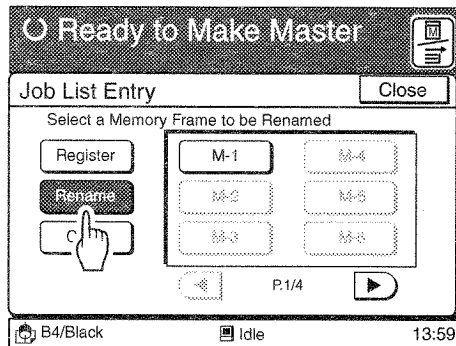
The [Job List Entry] window appears.



3 Touch the (Rename) button.

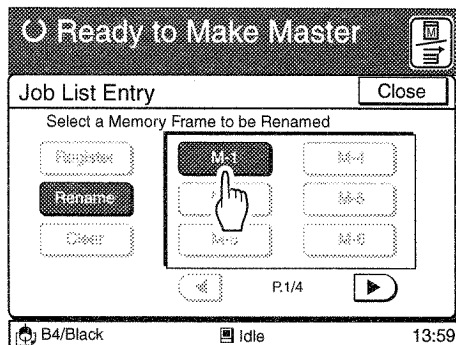
A message stating [Select a Memory Frame to be Renamed] appears.

- Only the Memory Frame buttons which are not occupied with print job settings can be selected.
- If no vacant Memory Frame button is displayed on the window, scroll through the list by touching the [◀] or [▶] button.



4 Touch the Memory Frame to be renamed.

The [Rename] window appears.

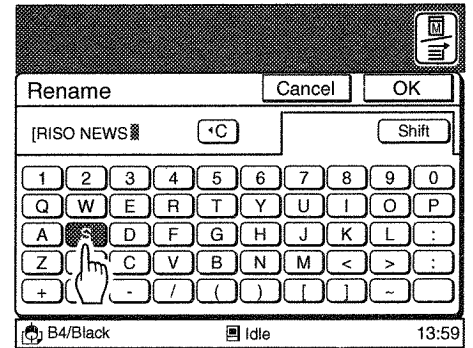


Storing Settings in Memory

5 Enter a new name for the selected print job setting.

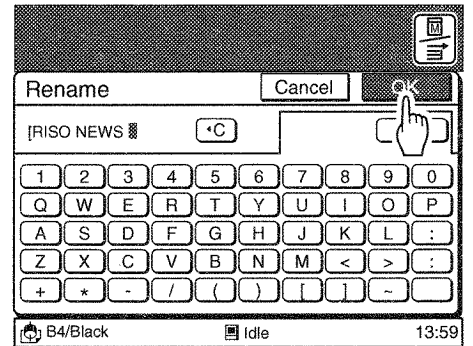
The [Rename] window can be switched between the uppercase window and the lowercase window by touching the [Shift] button.

- Up to ten spaces can be entered.
- Numerals can also be entered with the Print Quantity keys.
- Touch the [◀C] button to erase an entered letter (one letter will be erased each time this button is touched).
- The letters that exceed the maximum spacing will not be entered.



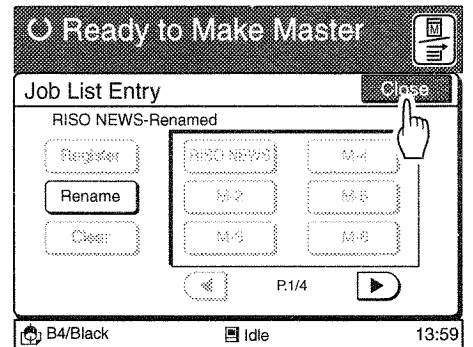
6 Touch the (OK) button.

The window returns to the [Job List Entry] window. The name of the selected print job setting now changes to the new one.



7 Touch the (Close) button.

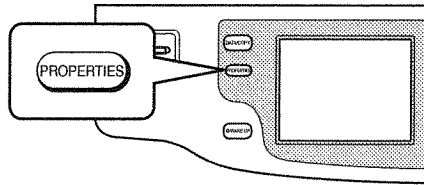
The window returns to the [Current Job Design] window.



Erasing a Saved Print Job Setting

1 Press the Properties key.

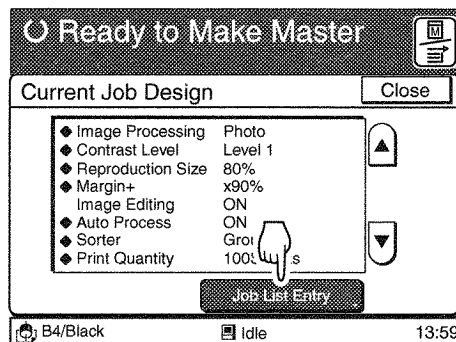
The [Current Job Design] window appears.



NOTE The settings displayed here are the current settings and have no relationship with the job setting to be deleted. A message stating [Same as Default] will be displayed if all settings keep the default status.

2 Touch the (Job List Entry) button.

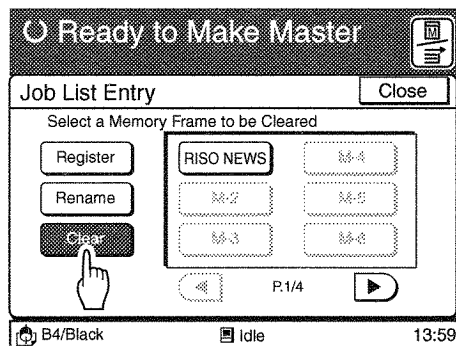
The [Job List Entry] window appears.



3 Touch the (Clear) button.

A message stating [Select a Memory Frame to be Cleared] appears.

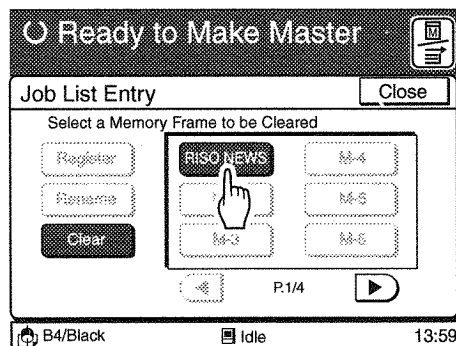
- Only the Memory Frame buttons which are occupied with print job settings can be selected.
- If desired Memory Frame button is not displayed on the window, scroll through the list by touching the [◀] or [▶] button.



4 Select the Print job setting to be erased.

The confirmation message box appears.

NOTE Touch the [Cancel] button to cancel the operation.

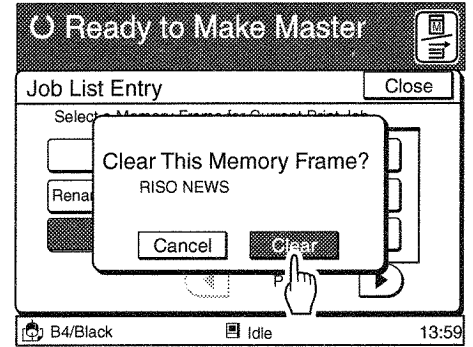


Storing Settings in Memory

5 Touch the (Clear) button.

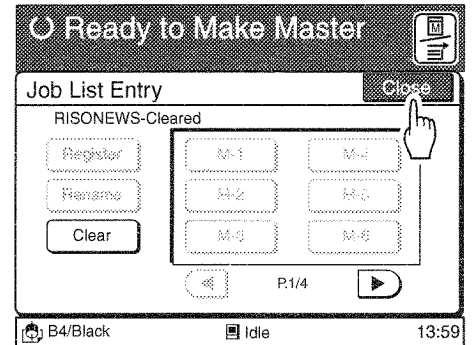
The window returns to the [Job List Entry] window. The print job settings registered in the selected Memory Frame is erased, and a message [(job name)-Cleared] appears.

NOTE The name of the Memory Frame will return to the default.



6 Touch the (Close) button.

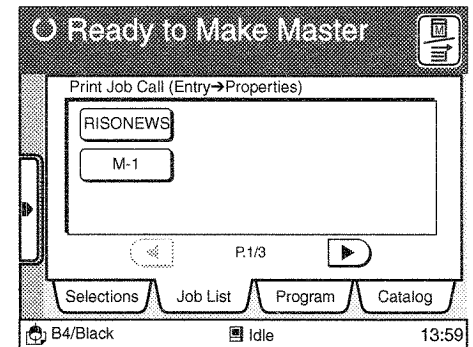
The window returns to the [Current Job Design] window.



Recalling a Saved Print Job Setting

1 Display the (Job List) tab on the sub-panel window.

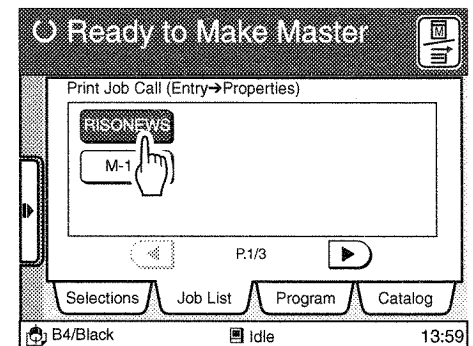
- Only the registered print job settings will be displayed on the [Job List] tab.
- If the required print job setting is not displayed on the tab, scroll through the list by touching the [◀] or [▶] button.



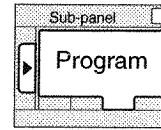
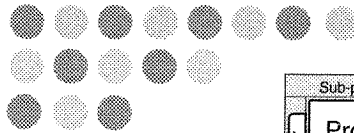
2 Select a desired print job setting.

The job setting is recalled, and a message [(job name)-Retrieved] will be displayed.

NOTE Press the Properties key when confirming the contents of the current job setting.
 p.72... Confirming Current Settings



Automatic Sorting into Groups



The Programmed Printing feature can be used to print and sort printed sheets into various groups automatically. One of two programmed printing methods, "Single-original Program" and "Multiple-original Program", can be selected. The programmed printing setting can be saved in the dedicated program memory, given a desired program name, allowing you to retrieve it quickly from the program list.

- ☞ **p.110 ...** Frequently used combinations of settings can be saved in memory for quick recall.
- ☞ **p.110 ...** The Programmed printing setting can be saved in memory for quick recall.

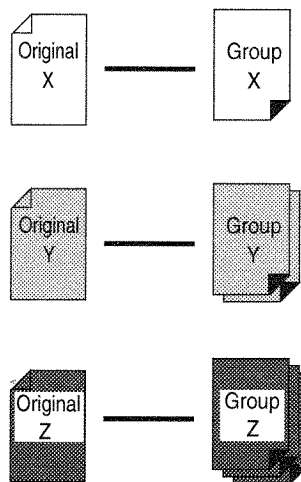
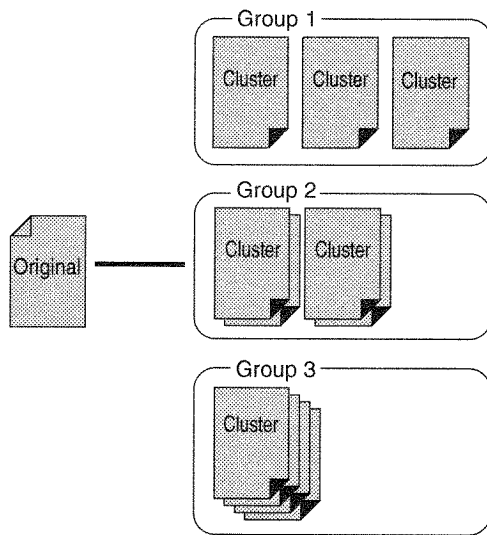
- NOTE** • Up to 20 groups can be set up, with a maximum of 9999 copies in each group.
- The Job Separator (option) is useful for Programmed printing.

Single-original Program

Multiple-original Program

One original is printed in different quantities.

Different originals are printed in different quantities.



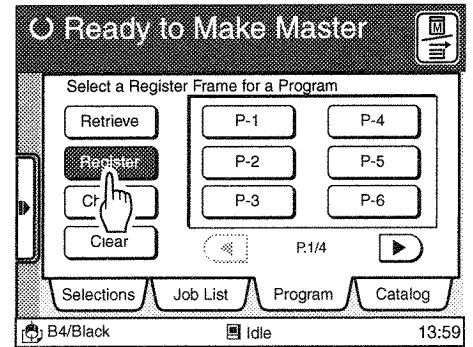
If more than one original (up to 50 sheets) is placed in the optional ADF Unit with the Auto Process feature activated, the Single-original Program set-up runs completely for each original, until all the originals are printed and sorted into groups as specified in the program.

Setting Up Single-Original Program

- 1 Display the (Program) tab on the sub-panel window and then touch the (Register) button.

A message stating [Select a Register Frame for a Program] appears.

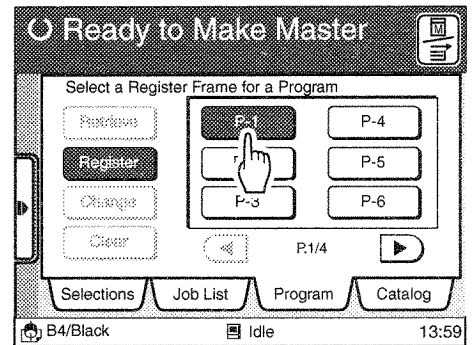
- Only the Register Frame buttons which are not occupied with program settings can be selected.
- If no vacant Register Frame button is displayed on the window, scroll through the list by touching the [◀] or [▶] button.



- 2 Touch a vacant Register Frame button.

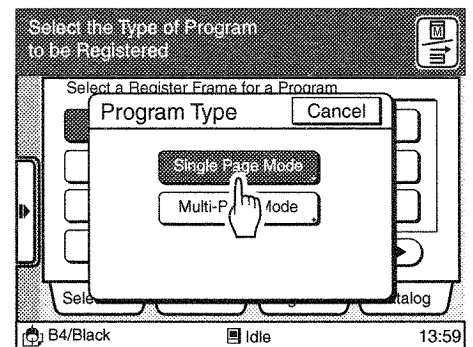
The program type selection window appears.

NOTE Up to 12 program settings can be registered in total.
Delete unwanted programs when the memory is full.
p. 125... Erasing a Saved Program Setting



- 3 Touch the (Single Page Mode) button.

The [Single Page Mode] window appears.



Automatic Sorting into Groups

4 Input the number of copies to be printed for each cluster of the first group using the Print Quantity keys.

- If you enter a number incorrectly, press the [C] key to reset the number to zero and then enter correct number.
- If the print quantity is set at [0], the settings for that group will be invalidated. Always ensure that the print quantity is correctly entered.

Cps.		Sets	Cps.		Sets
1G	20	x 1	4G	0	x 1
2G	0	x 1	5G	0	x 1
3G	0	x 1	6G	0	x 1

[Total] 20-

P:1/4

B4/Black Idle 13:59

5 Press the (*) key, and input the number of clusters (sets) of the first group.

NOTE You can shift the cursor by touching the relevant field directly.

Cps.		Sets	Cps.		Sets
1G	20	x 2	4G	0	x 1
2G	0	x 1	5G	0	x 1
3G	0	x 1	6G	0	x 1

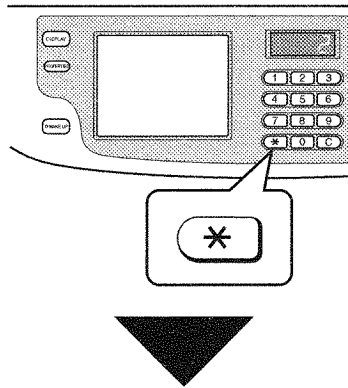
[Total] 40-

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6 Press the (*) key.

The cursor moves to the next field.



Cps.		Sets	Cps.		Sets
1G	20	x 2	4G	0	x 1
2G	3	x 1	5G	0	x 1
3G	0	x 1	6G	0	x 1

[Total] 40-

P:1/4

B4/Black Idle 13:59

Automatic Sorting into Groups

7 Enter the print quantity and the number of clusters (sets) for each group.

Repeat steps 4 through 6 and specify the print quantity and clusters (sets) for each group. The total print quantity for all groups will be displayed in the [Total] field.

- NOTE**
- To cancel the current program setting, touch the [Cancel] button.
 - When specified group print quantities or sets need to be changed, touch the relevant field directly or press the [✳] key to move the cursor, and then re-enter the correct value. The value for selected field will be reset to [0] when the [C] key is pressed.
 - The values for all print quantities and sets will be cleared when the [Clear All] button is touched.
 - The name of the program currently selected will be displayed above the [Rename] button.

8 Touch the (OK) button.

The entered settings will be registered in the memory when the [OK] button is touched, and these settings can be recalled and used for subsequent printing procedures.

Cps.		Sets	Cps.		Sets	P-1 Rename Clear All [Total] 200-
1G	20	x 2	4G	50	x 1	
2G	30	x 1	5G	0	x 1	
3G	40	x 2	6G	0	x 1	

Single Page Mode Cancel OK
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Ops.		Sets	Ops.		Sets	P-1 Rename Clear All [Total] 200-
1G	20	x 2	4G	50	x 1	
2G	30	x 1	5G	0	x 1	
3G	40	x 2	6G	0	x 1	

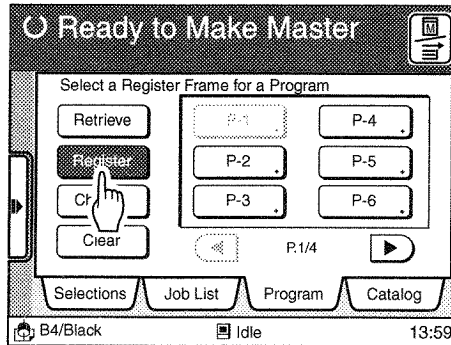
Single Page Mode Cancel OK
P.1/4
B4/Black Idle 13:59

Setting Up Multiple-Original Program

1 Display the (Program) tab on the sub-panel window and then touch the (Register) button.

A message stating [Select a Register Frame for a Program] appears.

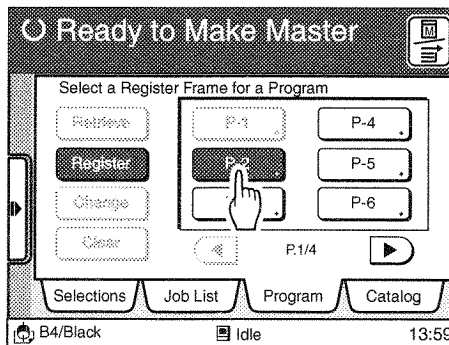
- Only the Register Frame buttons which are not occupied with program settings can be selected.
- If no vacant Register Frame button is displayed on the window, scroll through the list by touching the [◀] or [▶] button.



2 Touch a vacant Register Frame button.

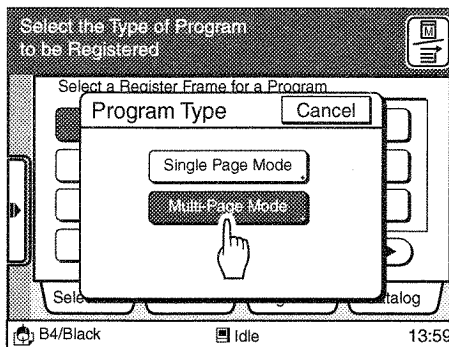
The program type selection window appears.

- NOTE** Up to 12 program settings can be registered in total. Delete unwanted programs when the memory is full.
- p.125...** Erasing a Saved Program Setting



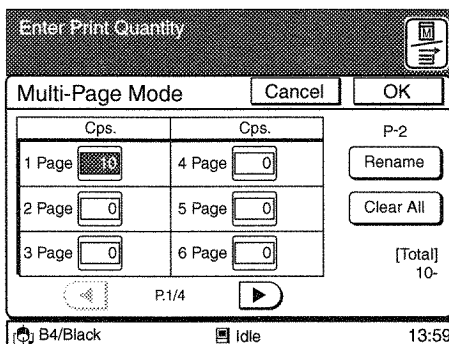
3 Touch the (Multi-Page Mode) button.

The [Multi-Page Mode] window appears.



4 Input the number of copies to be printed for the first original using the Print Quantity keys.

- NOTE**
- If you enter a number incorrectly, press the [C] key to reset the number to zero and then enter the correct number.
 - If the print quantity is set at [0], the settings for that group will be invalidated. Always ensure that the print quantity is correctly entered.



Automatic Sorting into Groups

5 Press the (*) key.

The cursor moves to the next field.

NOTE You can select the [Cps.] field by touching the relevant field directly.

Cps.		Cps.		P-2
1 Page	10	4 Page	0	Rename
2 Page	3	5 Page	0	Clear All
3 Page	0	6 Page	0	[Total] 10-

P.1/4

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6 Specify the print quantity for each original.

Repeat procedures 4 through 5 and specify the Print Quantity for each original.

The total print quantity for all pages will be displayed in the [Total] field.

- NOTE**
- To cancel the current program setting, touch the [Cancel] button.
 - When specified print quantities need to be changed, touch the relevant field directly or press the [*] key to move the cursor, and then re-enter the correct value. The value for selected field will be reset to [0] when the [C] key is pressed.
 - The values for all print quantities will be cleared when the [Clear All] button is touched.
 - The name of the program currently selected will be displayed above the [Rename] button.

Cps.		Cps.		P-2
1 Page	10	4 Page	0	Rename
2 Page	20	5 Page	0	Clear All
3 Page	0	6 Page	0	[Total] 60-

P.1/4

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7 Touch the (OK) button.

The entered settings will be registered in the memory when the [OK] button is touched, and these settings can be recalled and used for subsequent printing procedures.

Cps.		Cps.		P-2
1 Page	10	4 Page	0	Rer.
2 Page	20	5 Page	0	Clear All
3 Page	0	6 Page	0	[Total] 60-

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