

**SHARP®**

**MODEL: AR-5516S  
AR-5520S**

**DIGITAL MULTIFUNCTIONAL SYSTEM**

# **OPERATION GUIDE**





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# INTRODUCTION

This manual describes the copier and printer functions of the AR-5516S/AR-5520S digital multifunctional system.

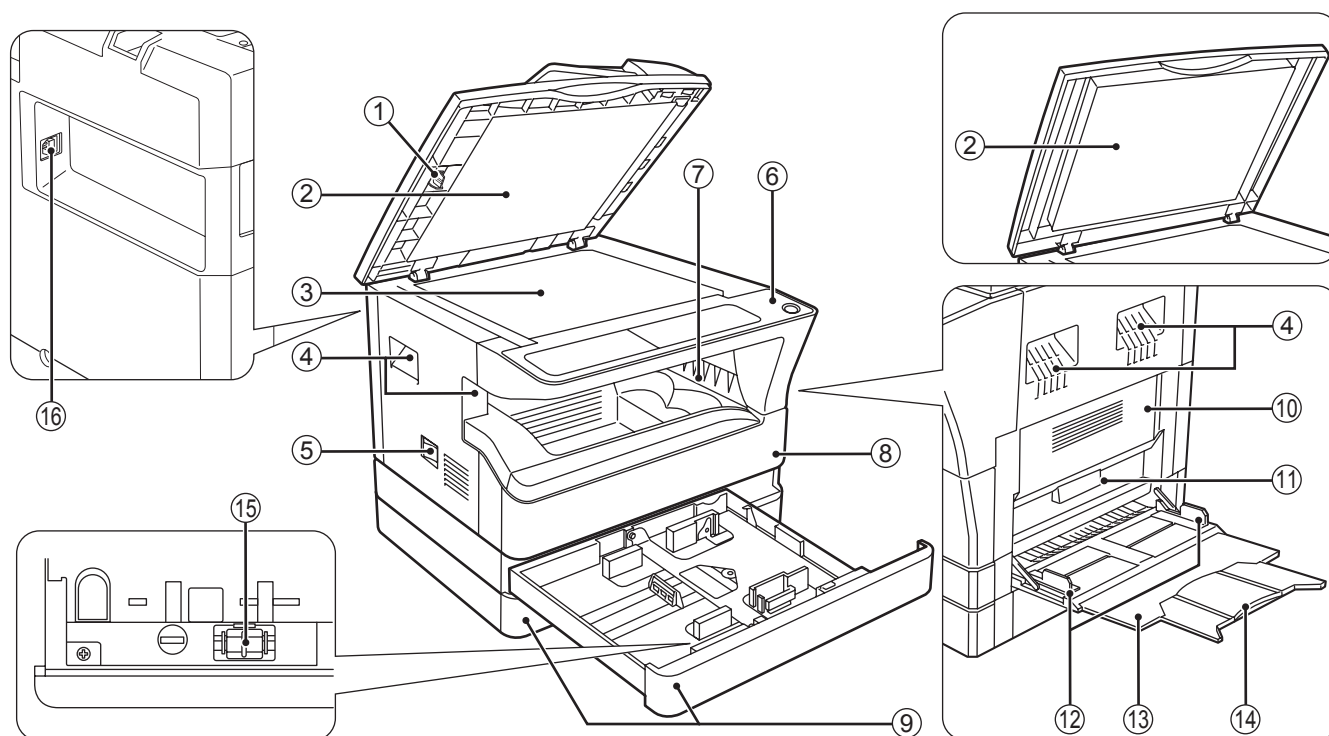


- Where "AR-XXXX" appears in this manual, please substitute the name of your model for "XXXX". For the name of your model, see "DIFFERENCES BETWEEN MODELS" in the Start Guide.
- The screen images and procedures that appear in this manual are mainly for Windows Vista. With other versions of Windows, some screen images may be different from those in this manual.
- For information on using your operating system, refer to your operating system's manual or online Help.

The display screens, messages, and key names shown in the manual may differ from those on the actual machine due to product improvements and modifications.

This chapter contains basic information that should be read before using the machine.

## PART NAMES AND FUNCTIONS



① **Glass cleaner (when the SPF is installed)**

Use to clean the original scanning glass. (p.60)

② **Document feeder cover (when the SPF is installed) /document cover**

Open to make copies from the document glass. (p.15)

③ **Document glass**

Place an original that you wish to scan face down here. (p.15)

④ **Handles**

Use to move the machine.

⑤ **Power switch**

Press to turn the machine power on and off. (p.8)

⑥ **Operation panel**

Contains operation keys and indicator lights. (p.6)

⑦ **Paper output tray**

Copies and prints are deposited to this tray.

⑧ **Front cover**

Open to remove paper misfeeds and perform machine maintenance. (p.53, p.57)

⑨ **Paper trays**

Each tray holds 250 sheets of paper. (p.10)

⑩ **Side cover**

Open to remove paper misfeeds and perform machine maintenance. (p.51, p.52)

⑪ **Side cover handle**

Pull to open the side cover. (p.51)

⑫ **Bypass tray guides**

Adjust to the width of the paper. (p.11)

⑬ **Bypass tray**

Paper including special paper (such as transparency film) can be fed from the bypass tray. (p.11, p.23)

⑭ **Bypass tray extension**

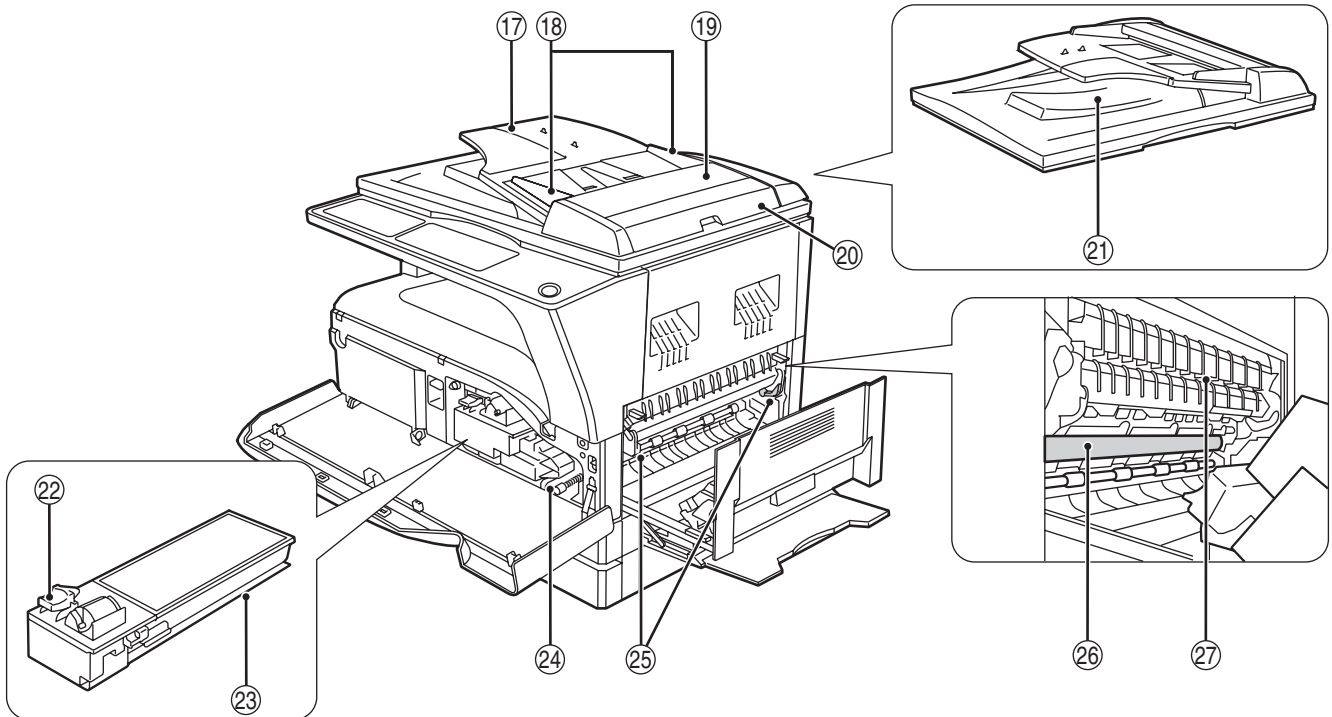
Pull out when feeding large paper such as B4 and A3. (p.11)

⑮ **Charger cleaner**

Use to clean the transfer charger. (p.61)

⑯ **USB 2.0 connector**

Connect to your computer to use the printer function. (Start Guide)



**17 Document feeder tray (when the SPF is installed)**

Place the original(s) that you wish to scan face up here. Holds up to 40 originals.

**18 Original guides (when the SPF is installed)**

Adjust to the size of the originals.

**19 Feeding roller cover (when the SPF is installed)**

Open to remove misfed originals. (p.50)

**20 Right side cover (when the SPF is installed)**

Open to remove misfed originals. (p.50)

**21 Exit area (when the SPF is installed)**

Originals exit the machine here after copying.

**22 Toner cartridge lock release lever**

To replace the toner cartridge, pull out the toner cartridge while pushing on this lever.

**23 Toner cartridge**

Contains toner. (p.57)

**24 Roller rotating knob**

Turn to remove misfed paper. (p.52, p.53)

**25 Fusing unit release levers**

To remove a paper misfeed from the fusing unit, push down on these levers and remove the paper. (p.53)



**Warning** The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.

**26 Photoconductive drum**

Copy images are formed on the photoconductive drum.

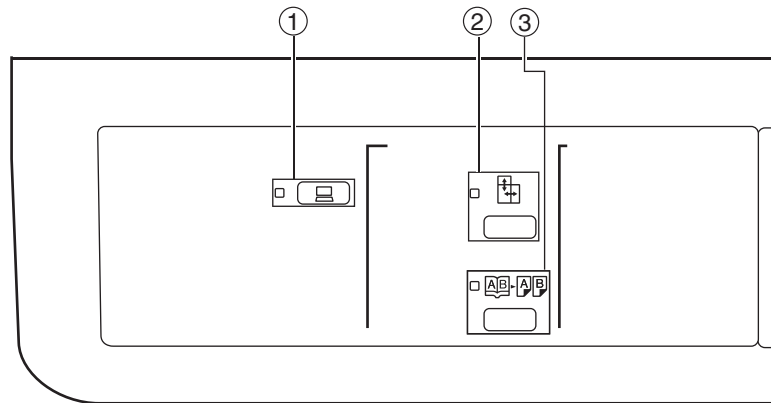
**27 Fusing unit paper guide**

Open to remove misfed paper.



**Note** The model name can be seen on the machines front cover.

# OPERATION PANEL



## ① ON LINE key ( ) / indicator

Press to toggle the machine between online and off-line. The indicator lights up when the machine is online, and goes off when the machine is off-line. The indicator blinks while the machine is receiving print data and while printing is paused. (p.26)

## ② XY-ZOOM key ( ) / indicator

Press to change the horizontal and vertical copy ratios independently. (p.21)

## ③ DUAL PAGE COPY key ( ) / indicator

Use to make individual copies of the two pages of an open book or other two-page original. (p.24)

## ④ AUTO/TEXT/PHOTO key ( / / ) / indicators

Use to select the exposure mode: "AUTO", "TEXT", or "PHOTO". (p.18)


## ⑤ ORIGINAL key ( ) / ORIGINAL SIZE indicators


Use to enter the original size. (p.12) The selected original size will light up.

## ⑥ PAPER SIZE indicators

Light up to show the selected copy paper size. (p.12)


## ⑦ Paper feed location / misfeed location indicators


The selected paper feed location is shown by a lit indicator (  ). (p.15)

The general location of misfed paper is shown by a blinking red indicator (  ). (p.50)


## ⑧ Alarm indicators

[  ] Maintenance indicator (p.49)

[  ] Toner cartridge replacement required indicator (p.49)

[  ] Developer replacement required indicator (p.49)

[  ] Paper required indicator (p.49)

[  ] Misfeed indicator (p.49)

## ⑨ Display

Shows the set number of copies, as well as the copy ratio, system setting function or setting code, or an error code when an error occurs.

## ⑩ Numeric keys

Use to select the desired copy quantity or to make system setting entries. (p.19)

To display the total number of pages output by the machine, hold the [0] key down. (p.58)

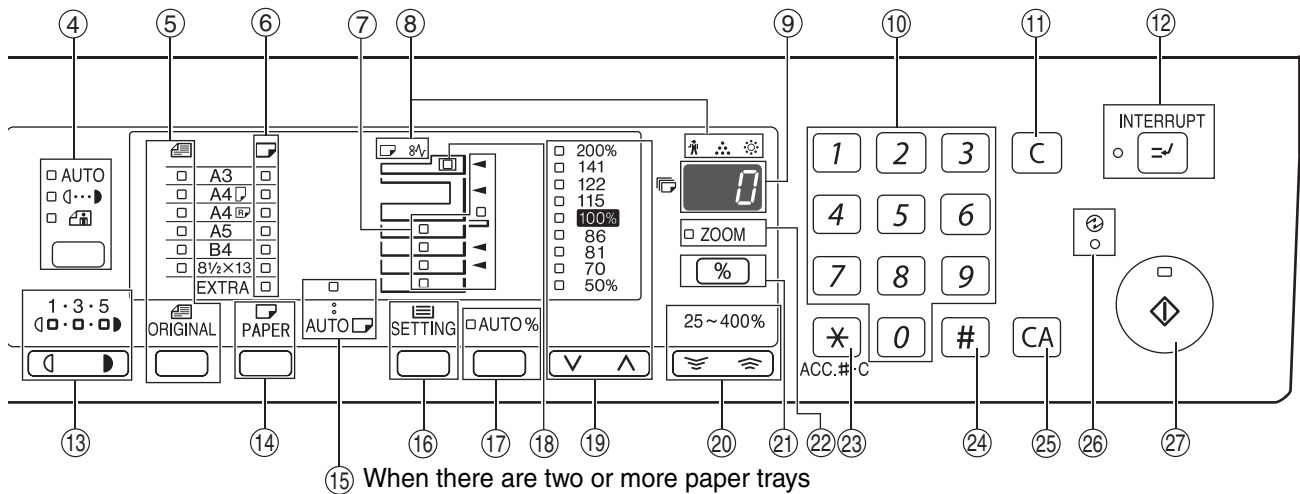
## ⑪ CLEAR key ( )

Clears the copy quantity display or terminates a copy run.

## ⑫ INTERRUPT key ( ) / indicator

Interrupts a copy run. (p.25)





⑬ **Light and Dark keys** ( , ) / indicators

Use to adjust the TEXT or PHOTO exposure level. (p.18)

⑭ **PAPER SELECT key** ( )

Use to set the paper size in the paper trays. (p.12)

⑮ **AUTO PAPER SELECT indicator** ( )

Paper of the proper size will be automatically selected depending on the original size and selected copy ratio when this indicator is on. (p.17)

⑯ **TRAY SETTING key** ( )

Use to manually select a paper tray. (p.12)

⑰ **AUTO IMAGE key** ( ) / indicator

Press for automatic copy ratio selection. (p.19)

⑱ **SPF indicator (when the SPF is installed)**

Lights up when originals are set in the document feeder tray. (p.16)

⑲ **PRESET RATIO selector keys** ( , ) / indicators

Use to select preset reduction/enlargement copy ratios. (p.20)

⑳ **Zoom keys** ( , )

Use to select any reduction or enlargement copy ratio from 25% to 400% in increments of 1%. (p.21)

㉑ **Copy ratio display key** ( )

Hold down when the machine is not in use to display the copy ratio in the display. (p.21)

㉒ **ZOOM indicator**

Lights up when a zoom ratio is set. (p.21)

㉓ **Audit clear key** ( ) (ACC.#-C)

Closes an open account. (p.42)

㉔ **(#) key**

Use to check the total number of copies made. (p.58)

㉕ **CLEAR ALL key** ( )

Clears all selected settings and returns the machine to the initial settings. (p.8)

㉖ **POWER SAVE indicator** ( )

Lights up when the machine is in a power save mode. (p.8)

㉗ **START key** ( ) / indicator

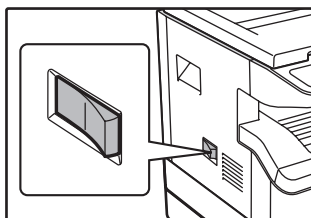
Press to make a copy (p.15). Also press to exit "Auto power shut-off" mode and to set a system setting. Copying is possible when the indicator is on.

# POWER ON AND OFF

The power switch is located on the left side of the machine.

## POWER ON

Turn the power switch to the "ON" position.

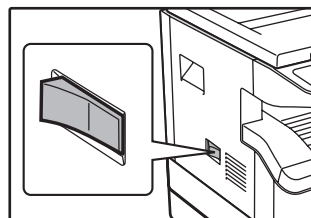


It will take about 45 seconds for the machine to warm up. While the machine is warming up, the POWER SAVE indicator (⌚) will blink. (The POWER SAVE indicator (⌚) will go off when the machine is ready to copy.)

However, you can make desired settings and press the [START] key (⏻) during warm-up. Copying will start after warm-up.

## POWER OFF

Make sure that the machine is not in operation and then turn the power switch to the "OFF" position.



If the power switch is turned off while the machine is in operation, a misfeed may occur and the job that was in progress will be cancelled.

Check the following to make sure the machine is not in operation:

- The START indicator is lit. (Initial state)
- The POWER SAVE indicator (⌚) is lit. ("Preheat mode" or "Auto power shut-off" mode)



- The machine reverts to the initial settings when it is first turned on, when the [CLEAR ALL] key (⌫) is pressed, or when no keys are pressed for the preset "Auto clear" time following the end of a copy job. When the machine reverts to the initial settings, all settings and functions selected to that point are cancelled. The "Auto clear" time can be changed in the user settings. (p.36)
- The machine is initially set to automatically enter power save mode if not used for copying or printing, for a preset period of time. This setting can be changed in the system settings. (p.36)

## Power save modes

The machine has two power save modes to reduce overall power consumption thereby reducing the cost of operation. In addition, these modes conserve natural resources and help reduce environmental pollution. The two power save modes are "Preheat mode" and "Auto power shut-off mode".

### Preheat mode

This function automatically switches the machine to a low power consumption state if the set duration of time elapses without the machine being used when the power is on. The POWER SAVE indicator (⌚) lights up, however, the keys on the operation panel can be used. Normal operation automatically resumes when a key on the operation panel is pressed, an original is placed, or a print job is received.

### Auto power shut-off mode

This function automatically switches the machine to a state that consumes even less power than preheat mode if the set duration of time elapses without the machine being used when the power is on. All lights except the POWER SAVE indicator (⌚) and ON LINE indicator go off. To resume normal operation, press the [START] key (⏻). Normal operation also resumes automatically when a print job is received. While in auto power shut-off mode, no keys (except the [START] key (⏻)) can be used.



The preheat activation time and the "Auto power shut-off timer" can be changed using system settings. It is suggested that you set times that are appropriate for your usage of the machine. (p.36)

## Initial settings


The machine assumes the initial settings when it is first turned on, when the [CLEAR ALL] key (⌫) is pressed, and approximately one minute after the last copy is made in any mode.

**Copy ratio:** 100%, **Exposure:** Automatic

**Copy quantity:** 0, **All special copier modes:** Off

**Auto paper selection:** On, **Paper feed station:** The tray selected in the "Default tray setting" in the system settings. (p.37)

# LOADING PAPER

The paper required indicator (  ) will light up when there is no copy paper in the selected paper feed tray, or when the selected paper tray is not installed or is improperly installed.

## PAPER

For best results, use only SHARP recommended paper.

Paper tray type	Paper type	Size	Weight	Capacity
Paper tray 250-sheet paper feed unit 2 x 250-sheet paper feed unit	Standard paper Recycled paper	A5* <sup>1</sup> B5 A4 B4 A3	56 g/m <sup>2</sup> to 90 g/m <sup>2</sup> * <sup>2</sup>	250 sheets (Load paper lower than the line on the tray)
Bypass tray	Standard paper Recycled paper	A6R to A3	56 g/m <sup>2</sup> to 90 g/m <sup>2</sup>	100 sheets * <sup>3</sup>
	Thick paper		Max. 128 g/m <sup>2</sup>	Load one sheet of these papers at a time to the bypass tray.
	Transparency film Labels			
	Envelopes	International DL (110 mm x 220 mm) International C5 (162 mm x 229 mm) Commercial 9 (3-7/8" x 8-7/8") Commercial 10 (4-1/8" x 9-1/2")		5 sheets

\*<sup>1</sup> A5 can be used in the upper paper tray but cannot be used in other trays (including trays in optional paper feeding unit).

\*<sup>2</sup> When making a large number of copies or prints using 90 g/m<sup>2</sup> paper, remove the output from the paper output tray when about 100 pages have been printed. The output may not stack correctly if more than 100 pages are allowed to accumulate.

\*<sup>3</sup> The number of sheets of the paper which can be set changes with the weight of a paper.

## Special papers

Follow these guidelines when using special papers.

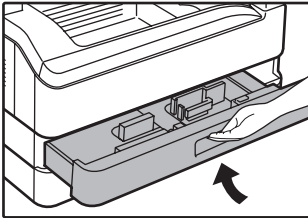
- Use SHARP recommended transparency film and label sheets. Using other than SHARP recommended paper may result in misfeeds or smudges on the output. If other than SHARP recommended media must be used, feed each sheet one at a time using the bypass tray (do not attempt continuous copying or printing).
- There are many varieties of special paper available on the market, and some cannot be used with this machine. Before using special paper, contact your authorised service representative.
- Before using other than SHARP recommended paper, make a test copy to see if the paper is suitable.

# LOADING PAPER

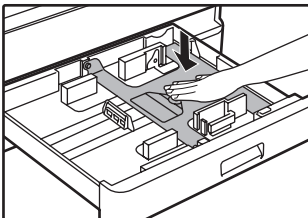
Make sure that the machine is not copying or printing, and then follow these steps to load paper.

## Loading the paper tray

- 1 Gently lift and pull out the paper tray until it stops.

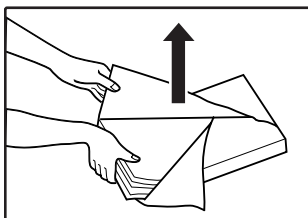


- 2 Push the pressure plate down until it locks in place.

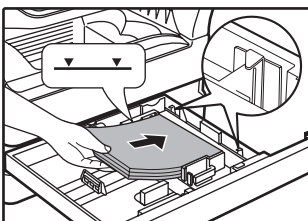


Push the centre of the pressure plate down until it locks into place.

- 3 Load paper into the tray.

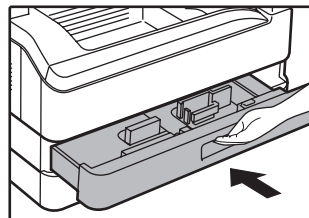


- Open the package of the paper and load it without fanning the paper.
- Make sure the stack of paper is straight before loading it.



Make sure that the paper fits under the tabs on the right side of the tray.

- 4 Gently push the paper tray into the machine.



### Note

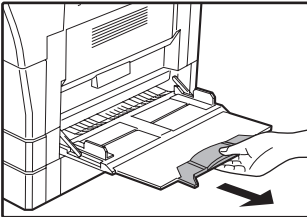
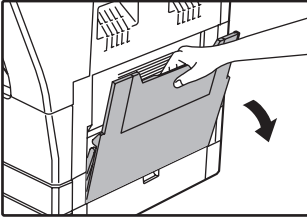
- If you loaded a different size of paper than was loaded previously in the tray, go to ["CHANGING A TRAY'S PAPER SIZE SETTING"](#) (p.12).
- When misfeed occurs, rotate the paper 180 degrees and reload it.
- Straighten curled paper before using it.

### Note

- Do not load paper higher than the line on the tray (up to 250 sheets).
- Do not add paper to the loaded paper. It may cause multiple feed of paper.
- A5 can be used in the upper paper tray but cannot be used in other trays (including trays in optional paper feeding unit).

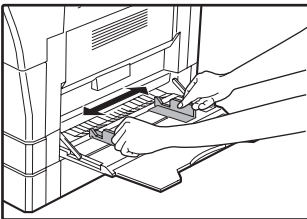
## Loading the bypass tray

### 1 Unfold the bypass tray.

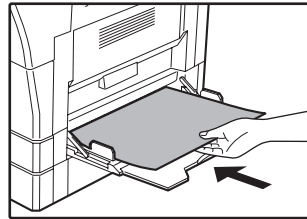


When feeding large paper such as B4 and A3, pull out the bypass tray extension.

### 2 Set the paper guides to the copy paper width.



### 3 Insert the paper (print face down) all the way into the bypass tray.



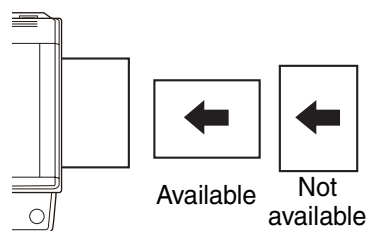
To prevent a misfeed, verify once more that the paper guides are adjusted to the width of the paper.

#### Note

- If you loaded paper in the bypass tray, press the [PAPER SELECT] key ( ) to select the bypass tray. The bypass tray will not be selected automatically.
- If you set thick paper in the bypass tray, hold down the [TRAY SETTING] key ( ) for more than 5 seconds, use the [PAPER SELECT] key ( ) to select the bypass tray, and press [AUTO IMAGE] key ( AUTO % ). When [AUTO IMAGE] key ( AUTO % ) lights up, the paper type is set to thick paper.

## Important points when inserting paper in the bypass tray

- Up to 100 sheets of standard copy paper can be set in the bypass tray.
- Be sure to place A6 or A5 size paper or envelopes horizontally as shown in the following diagram ( ).



- When loading envelopes, make sure that they are straight and flat and do not have loosely glued construction flaps (not the closure flap).
- Special papers except SHARP recommended transparency film, labels, and envelopes must be fed one sheet at a time through the bypass tray.
- When adding paper, first remove any paper remaining in the tray, combine it with the paper to be added and then reload as a single stack. The paper to be added must be the same size and type as the paper already in the tray.
- Do not use paper that is smaller than the original. This may cause smudges or unclean images.
- Do not use paper that has already been printed on by a laser printer or plain paper fax machine. This may cause smudges or unclean images.

## Envelopes

Do not use the following envelopes, as misfeeds will occur.

- Envelopes with metal tabs, clasps, strings, holes, or windows.
- Envelopes with rough fibres, carbon paper, or glossy surfaces.
- Envelopes with two or more flaps.
- Envelopes with tape, film, or paper attached to the flap.
- Envelopes with a fold in the flap.
- Envelopes with glue on the flap to be moistened for sealing.
- Envelopes with labels or stamps.
- Envelopes that are slightly inflated with air.
- Envelopes with glue protruding from the seal area.
- Envelopes with part of the seal area peeled off.

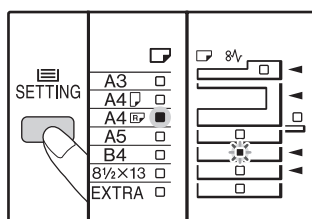
## CHANGING A TRAY'S PAPER SIZE SETTING

Follow these steps to change a tray's paper size setting.



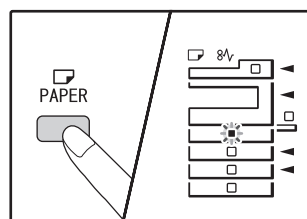
- The paper size setting cannot be changed when the machine has stopped temporarily due to running out of paper or a misfeed, or during interrupt copying.
- During printing (even in copy mode), the paper size setting cannot be changed.
- A5 size paper can only be selected in upper paper tray.
- Do not load paper that is a different size than the paper size setting. Copying will not be possible.

- 1 Hold down the [TRAY SETTING] key ( ) for more than 5 seconds to set the selected paper size.**



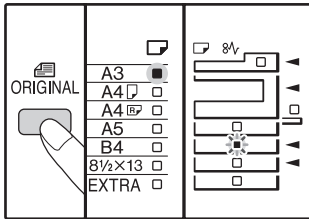
The currently selected paper feed location indicator will blink and the corresponding paper size (which is currently set) indicator will light steadily. All other indicators will go out.

- 2 If the machine has two or more paper trays, use the [PAPER SELECT] key ( ) to select the paper tray for which you wish to change the paper size setting.**



Each time the [PAPER SELECT] key ( ) is pressed, a paper tray will be indicated with a blinking paper feed location indicator.

### 3 Use the [ORIGINAL] key ( ) to select the paper size.



The indicator of the selected paper size lights up.

#### Customise the bypass tray setting

- Enter a value for the horizontal/vertical direction by pressing the numeric keys. Press the [%] key to switch the horizontal/vertical direction.

**The horizontal direction is selected:**

zoom indicator lights up

**The vertical direction is selected:**

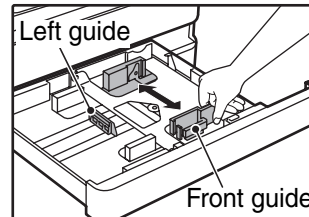
zoom indicator does not light up

When finished, press and hold [%].

#### Available value

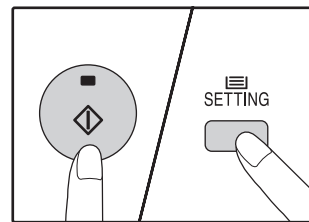
Direction	min. (mm)	max. (mm)
horizontal	100	297
vertical	139	420


### 4 Squeeze the lock lever of the front guide and slide the front guide to match the width of the paper, and move the left guide to the appropriate slot as marked on the tray.



- The front guide is a slide-type guide. Grasp the locking knob on the guide and slide the guide to the indicator line of the paper to be loaded.
- The left guide is an insert-type guide. Remove it and then insert it at the indicator line of the paper to be loaded.
- If the bypass tray is selected, set the paper guides to the copy paper width.

### 5 Press the [START] key ( ) and then the [TRAY SETTING] key ( ).



To change the paper size setting of another tray, repeat steps 2 to 5 after pressing the [START] key (  ).



**Note**

Affix the paper size label for the paper size selected in step 3 to the label position on the right end of the tray.

#### Important points when using the printer mode

Make sure that the tray's paper size setting is the same as the tray's paper size setting in the printer driver. For example, if the tray's paper size setting is A4R, set "Set Paper Size" to "A4R". For more information, see "CONFIGURING THE PRINTER DRIVER" in the Start Guide.


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# OPERATION IN COPY AND PRINTER MODES

Some operations cannot be performed simultaneously when the machine is being used in printer mode or copy mode.

Modes		Copying	Printing
Copy	Copy key input	Yes	Yes
	During copying	Yes* <sup>1</sup>	No* <sup>2</sup>
Printer	During printing	Yes* <sup>3</sup>	No

\*<sup>1</sup> Can be used after pressing the [INTERRUPT] key ()

\*<sup>2</sup> Printing will begin when the [CLEAR ALL] key () is pressed after the copy job is finished, or when the [ON LINE] key () is pressed to switch the machine online. Printing will also begin after the set auto clear time elapses, or after 60 seconds if "Auto clear time" is disabled.

\*<sup>3</sup> The print job is paused and copying begins.



This chapter explains how to use the copy functions.

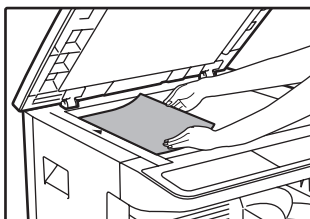
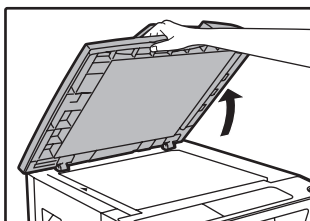
## NORMAL COPYING

This section explains how to make a regular copy.

If "Auditing mode" has been enabled (p.39), enter your 3-digit account number.

### Copying from the document glass

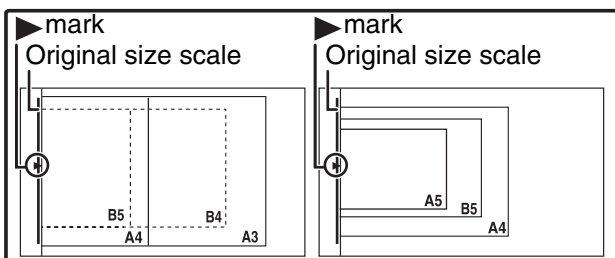
- 1 Open the document cover/SPF, and place the original.



Place the original face down on the document glass.

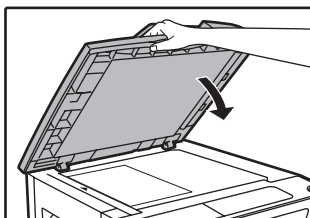
#### [How to place the original]

Align the edge of the original with the original size scale, to be centred with the centring mark (▶).



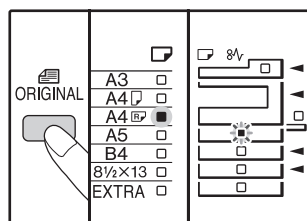
An original up to A3 can be placed on the document glass.

- 2 Close the document cover/SPF.



After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

- 3 Press the [ORIGINAL] key ( ) and select the original size.

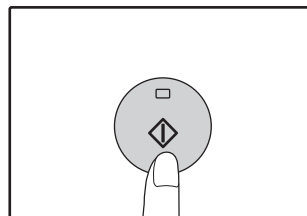


When the original size is selected, the tray with the same size of paper is automatically selected. (When there are two or more paper trays)

- Make sure that the PAPER SIZE indicator lights up. If the indicator is not lit, no tray has the same size of paper as the original. Load paper of the required size in a tray, or select the bypass tray with the [PAPER SELECT] key ( ) and copy from the bypass tray.
- The bypass tray must be manually selected.
- To copy on paper of a different size than the original, select the paper with the [PAPER SELECT] key ( ).
- If the ORIGINAL SIZE indicator is blinking, rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.

- 4 Set the number of copies.

- 5 Press the [START] key ( ) to begin copying.



The copy is delivered to the paper output tray.

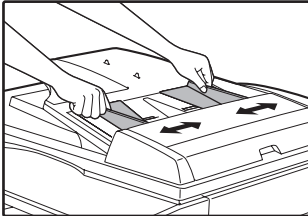


- The paper output tray can hold up to 250 sheets of paper.
- About one minute after copying ends, "Auto clear" activates and restores the copy settings to the initial settings. (p.8) The setting for "Auto clear time" can be changed in the system settings. (p.36)
- Press the [CLEAR] key ( ) to stop copying in the middle of a run.

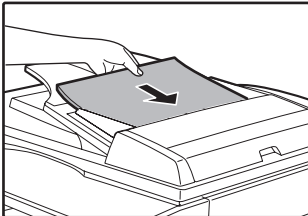
## Copying from the SPF



- 1** Make sure that an original has not been left on the document glass. Close the SPF.

- 2** Adjust the original guides to the size of the original(s).



- 3** Set the original(s) face up in the document feeder tray.

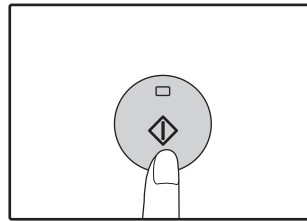


- Insert the original into the document feeder tray as far as it will go. When the original is set, the SPF indicator will light up.
- The ORIGINAL SIZE indicator corresponding to the size of the original lights up.
- If the ORIGINAL SIZE indicator is blinking, rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.
- Make sure that the PAPER SIZE indicator is lit. If the indicator is not lit, no tray has the same size of paper as the original. Load paper of the required size in a tray, or select the bypass tray with the [PAPER SELECT] key (  ) and copy from the bypass tray.
- The bypass tray must be manually selected.
- To copy on paper of a different size than the original, select the paper with the [PAPER SELECT] key (  ).




Do not place originals of different sizes together in the document feeder tray. This may cause misfeeds.

- 5** Press the [START] key (  ) to begin copying.




The copy is delivered to the paper output tray.





- The paper output tray can hold up to 250 sheets of paper.
- About one minute after copying ends, "Auto clear" activates and restores the copy settings to the initial settings. (p.8) The setting for "Auto clear" time can be changed in the system settings. (p.36)
- Press the [CLEAR] key (  ) to stop copying in the middle of a run.
- If you find it difficult to remove the original from the document feeder tray, open the feeding roller cover first and then remove the original. If you remove the original without opening the feeding roller cover, the original may become dirty.

- 4** Set the number of copies.

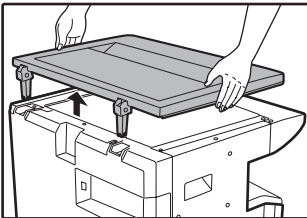
### Auto paper select mode (when there are two or more paper trays)

When the AUTO PAPER SELECT indicator (AUTO ) lights up, "Auto paper select mode" is enabled. This function automatically selects the paper that is the same size as the original A5, B5, B5R, A4, A4R, B4, A3 paper. "Auto paper select mode" can be disabled in the system settings. (p.36)

- If a zoom setting is selected after placing the original, the paper size that is appropriate for the zoom setting will be automatically selected.
- "Auto paper select mode" is cancelled if the automatic ratio selection is enabled (p.19) or if a tray is selected with the [PAPER SELECT] key (). Auto paper select resumes operation when the [CLEAR ALL] key () is pressed or when "Auto clear time" activates.

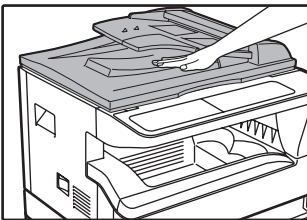
### Removing the document cover

To copy large originals like newspapers, remove the document cover. To remove the cover, lift straight up as shown. To replace the cover, do the reverse. The SPF cannot be removed.



### Copying books or originals with folds or creases

Press down on the document cover/SPF while copying as shown. If the document cover/SPF is not completely closed, shadows may appear on the copy or it may be fuzzy. Straighten originals with folds or creases well before placing.



### Originals that can be used in the SPF

Originals that are A5 to A3 and 56 g/m<sup>2</sup> to 90 g/m<sup>2</sup> can be used. A maximum of 40 pages can be placed at once.

For originals that are B4 or larger (B4, A3), a maximum of 30 pages can be placed at once.



- Make sure that there are no paper clips or staples on the original.
- Straighten curled originals before placing them in the document feeder tray. Curled originals may cause misfeeds.
- When you set multiple sheets of thick original, if the original is not fed, reduce the number of the set originals.

### Originals that cannot be used in the SPF

The following originals cannot be used. These may cause misfeeds or smudging and unclear images.

- Transparencies, tracing paper, other transparent or translucent paper, and photographs.
- Carbon paper, thermal paper.
- Originals that are creased, folded, or torn.
- Glued originals, cut-out originals.
- Originals with binder holes.
- Originals printed using an ink ribbon (thermal transfer printing), originals on thermal transfer paper.

### Stream feeding mode

If "Stream feeding mode" is enabled in the system settings (p.36), the SPF indicator will blink for about 5 seconds after all originals are fed. If a new original is placed in the SPF during this time, the original will be automatically fed in and copying will begin.

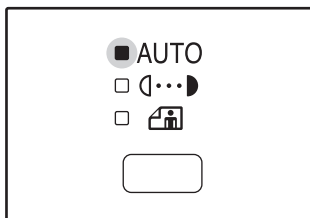
## MAKING A COPY DARKER OR LIGHTER

Automatic exposure adjustment is initially enabled. This function automatically adjusts the copy image according to the original being copied. If you wish to select the exposure level yourself, follow the steps below. (Select from two original types and five exposure levels for each original type.) The exposure level used in automatic exposure adjustment can also be changed. ("[ADJUSTING THE AUTOMATIC EXPOSURE LEVEL](#)" (p.35))

### Original types

- **AUTO**.....Automatic exposure adjustment is enabled and the exposure is automatically adjusted according to the original being copied. The exposure is lowered for coloured areas and background shadows.
- **TEXT**.....The exposure is raised for light areas and lowered for dark backgrounds to make text easier to read.
- **PHOTO**...Halftones in the photo are reproduced with greater clarity.

#### 1 Press the [AUTO/TEXT/PHOTO] key ( / / ) to select the original type.

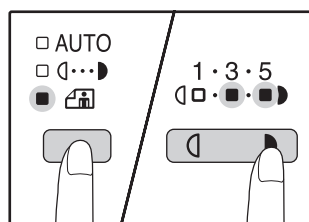


To adjust the exposure of a text original manually, press until the TEXT indicator ( ) lights. To copy a photo, press until the PHOTO indicator ( ) lights.



To return to automatic adjustment, press until the AUTO indicator ( ) lights.

#### 2 Press the [Light] key ( ) or [Dark] key ( ) to adjust the exposure.



For a darker image, press the [Dark] key ( ). For a lighter image, press the [Light] key ( ). If exposure level 2 or 4 is selected, the two indicators will light simultaneously.

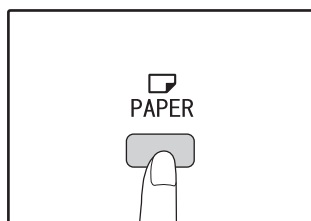


#### Exposure value guidelines

- |       |                                         |
|-------|-----------------------------------------|
| 1 – 2 | Dark originals like newspapers          |
| 3     | Normal originals                        |
| 4 – 5 | Coloured text or text written in pencil |

## SELECTING THE TRAY

Auto paper select mode (p.17) normally operates (unless it has been disabled), and thus when the original is placed on the document glass and the original size is selected, or when the original is placed in the SPF, the tray with the same size of paper as the original is automatically selected. If you wish to use a tray other than the automatically selected tray (for example you wish to enlarge or reduce the copy or use the bypass tray), press the [PAPER SELECT] key ( ) to select the desired tray.



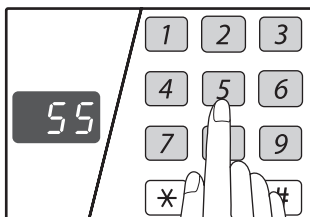
- If the desired PAPER SIZE indicator does not light up, change the paper in the tray to the desired paper size. (p.12)
- Automatic ratio selection (p.19) does not operate when the bypass tray or a tray set for a special paper size is selected.

### Auto tray switching (when there are two or more paper trays)

If the tray runs out of paper during copying and there is another tray with the same size of paper and the same feeding orientation (horizontal or vertical), the other tray is automatically selected and copying continues. "Auto tray switching" can be disabled in the system settings (p.36).

## SETTING THE NUMBER OF COPIES

Press the numeric keys to set the number of copies.



- The set number of copies appears in the display. A maximum of 999 copies (factory default setting) can be set.
- If you wish to make only a single copy, copying is possible with the display showing "0".



If you enter the wrong number, press the [CLEAR] key ( ) and enter the correct number.

### Important note when making a large number of copies

When the maximum number of pages (about 250 pages) that can be held in the paper output tray are output, copying will temporarily stop. When this happens, promptly remove the copies and press the [START] key ( ) to resume copying. Copying will also stop after about 500 pages and 750 pages. Remove the pages and resume copying in the same way.



The maximum number of copies can be changed in the system settings. (p.37)

2

## REDUCTION/ENLARGEMENT/ZOOM

The zoom function enables precise copy ratio selection from 25% to 400% in increments of 1%. There are three ways to enlarge and reduce copies, as explained below.

- **Reduction and enlargement ratios can be selected automatically with the [AUTO IMAGE] key ( ).**  
"AUTOMATIC RATIO SELECTION" (below)
- **Reduction and enlargement ratios can be selected manually with the [PRESET RATIO] selector keys ( , ) and/or the [ZOOM] keys ( , ).**  
"MANUAL RATIO SELECTION" (p.20)
- **Separate settings can be selected for the vertical and horizontal ratios.**  
"SELECTING THE VERTICAL AND HORIZONTAL COPY RATIOS SEPARATELY (XY ZOOM Copying)" (p.21)

Ratios that can be selected will vary depending on whether the original is placed on the document glass or in the SPF.

Original position	Selectable ratios
Document glass	25% – 400%
SPF	50% – 200%

## AUTOMATIC RATIO SELECTION

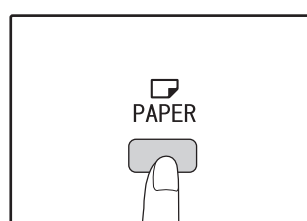
**1** Place the original(s) in the document feeder tray or on the document glass.

**2** If the original is placed on the document glass, select the original size. (p.15)



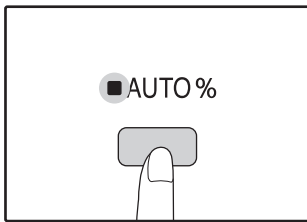
- Automatic ratio selection can be used when the original size is A5, B5, B5R, A4, A4R, B4, A3. It cannot be used for other sizes.
- After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

**3** Use the [PAPER SELECT] key ( ) to select the paper tray with the desired paper size.



This feature will not work when using copy paper of non-standard size or when using the bypass tray.

#### 4 Press the [AUTO IMAGE] key (AUTO %).



The AUTO IMAGE indicator (AUTO %) lights up and the appropriate ratio for the original size and paper size is selected. (The indicator of the selected ratio will light up.)



- If the ORIGINAL SIZE indicator blinks, change the orientation of the placed original.
- If the copy is made when a PRESET RATIO selector indicator is blinking, the copied image may run off the page.

#### 5 Set the number of copies and other copy settings, and then press the [START] key (⊙).

The copy will be delivered to the paper output tray.



To cancel automatic ratio selection, press the [AUTO IMAGE] key (AUTO %) again.

## MANUAL RATIO SELECTION

Copies can be reduced down to 25% or enlarged up to 400%. The [PRESET RATIO] selector keys (⏏, ⏏) can be pressed to quickly select a ratio from among eight preset ratios. In addition, the [Zoom] keys (⏏, ⏏) can be pressed to select the ratio in increments of 1%.

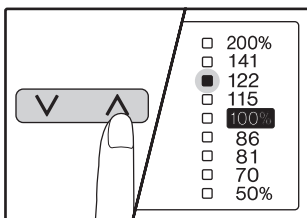
#### 1 Place the original(s) in the document feeder tray or on the document glass.

#### 2 If the original is placed on the document glass, select the original size. (p.15)



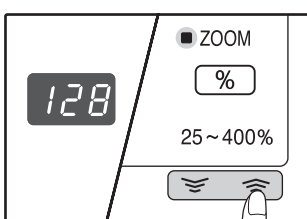
After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

#### 3 Use the [PRESET RATIO] selector keys (⏏, ⏏) and [Zoom] keys (⏏, ⏏) to select the desired copy ratio.



##### Selecting a preset ratio

Press the [PRESET RATIO] selector key (⏏) to move up through the preset ratios. Press the [PRESET RATIO] selector key (⏏) to move down through the preset ratios.



##### Fine adjustment of the ratio

Any ratio from 25% to 400% can be set in increments of 1%.

Press a [PRESET RATIO] selector key (⏏ or ⏏) to set the approximate ratio, then press the [Zoom] keys (⏏ or ⏏) to increase or decrease the ratio. To decrease or increase the zoom ratio rapidly, hold down the [Zoom] keys (⏏ or ⏏). When a [Zoom] key (⏏ or ⏏) is pressed, the ZOOM indicator will light up and the zoom ratio will appear in the display for about two seconds.



- To verify a zoom setting without changing the zoom ratio, Hold down the [Copy ratio display] key (⏏). When the key is released, the display will return to the number of copies display.
- If the copy is made when a PRESET RATIO selector indicator or the ZOOM indicator is blinking, the copied image may run off the page. To ensure that the image fits on the page, lower the copy ratio until the indicator stops blinking and lights steadily.
- If the PAPER SIZE indicator is not lit, there is no appropriate paper. Load appropriate paper in a paper tray. (p.10)

#### 4 Set the number of copies and other copy settings, and then press the [START] key (⊙).

The copy will be delivered to the paper output tray.



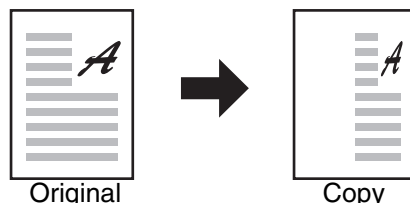
To return the ratio to 100%, press the [PRESET RATIO] selector key (⏏ or ⏏) until the 100% indicator lights up.



# SELECTING THE VERTICAL AND HORIZONTAL COPY RATIOS SEPARATELY (XY ZOOM Copying)

The XY ZOOM feature allows the horizontal and vertical copy ratios to be changed independently.

**Example:** Reduction only in the horizontal direction.



- To use the XY ZOOM feature with the DUAL PAGE COPY feature, set the DUAL PAGE COPY feature first and then the XY ZOOM feature.
- The XY ZOOM feature cannot be used in combination with the AUTO IMAGE function.

2

Ratios that can be selected will vary depending on the position of the original.

Original position	Selectable ratios
Document glass	25% – 400%
SPF	50% – 200%

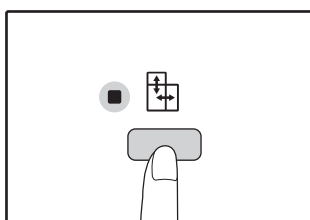
**1** Place the original(s) in the document feeder tray or on the document glass.

**2** If the original is placed on the document glass, select the original size. (p.15)



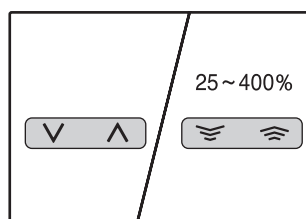
After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

**3** Press the [XY-ZOOM] key (⏏).



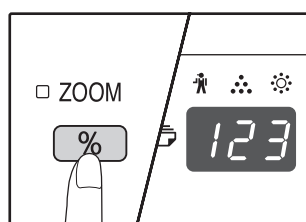
XY-ZOOM Indicator (⏏) lights up.  
The current value for the vertical direction will appear in the display.

**4** Use the [PRESET RATIO] selector keys (⏏, ⏏) and [Zoom] keys (⏏, ⏏) to change the copy ratio in the vertical direction.







Press the [PRESET RATIO] selector keys (⏏, ⏏) to select a ratio close to the desired ratio, and then press the [Zoom] keys (⏏, ⏏) to adjust the ratio in increments of 1%.  
The ratio appears in the display.

**5** Press the [Copy ratio display] key (⏏).



The selected ratio for the vertical direction will be entered.

## 6 Use the [PRESET RATIO] selector keys ( , ) and [Zoom] keys ( , ) to change the copy ratio in the horizontal direction.

Press the [PRESET RATIO] selector keys ( ,  ) to select a ratio close to the desired ratio, and then press the [Zoom] keys ( ,  ) to adjust the ratio in increments of 1%.

The ratio appears in the display.








## 7 Press the [Copy ratio display] key ( ).

The selected ratio for the horizontal direction will be entered and the display will change to the number of copies display.

## 8 Set the number of copies and other copy settings, and then press the [START] key ( ).

The copy will be delivered to the paper output tray.



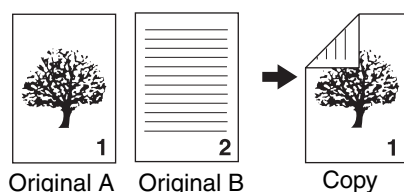
- To verify the copy ratios, press and hold down the [Copy ratio display] key (  ). The vertical and horizontal ratios will be alternately displayed.
- If you need to change the ratios, press the [PRESET RATIO] selector keys ( ,  ) and the [Zoom] keys ( ,  ) to reset the ratios, beginning with the vertical ratio. (step 4)
- To cancel XY ZOOM copy, press the [XY-ZOOM] key (  ). The XY-ZOOM indicator (  ) will go off, indicating that the function is cancelled.



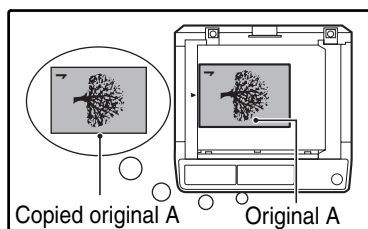
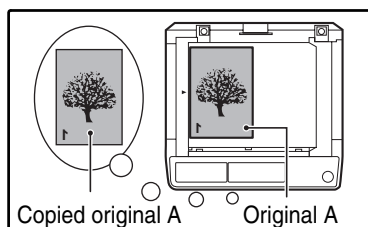
# TWO-SIDED COPYING USING THE BYPASS TRAY

To perform manual two-sided copying, follow these steps.

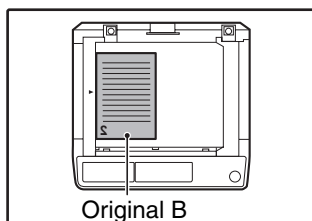
**Example:** Copying originals A and B onto each side of one sheet of paper



## 1 Copy original A.

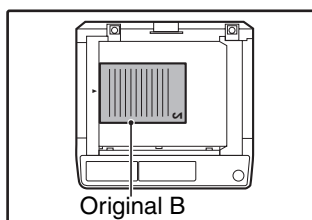


## 2 Place original B as shown below.



### Vertically-oriented original:

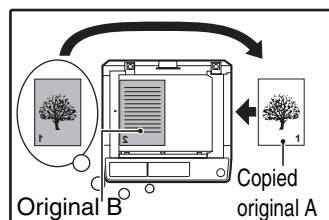
If the original is oriented vertically, place it in the same orientation as original A.



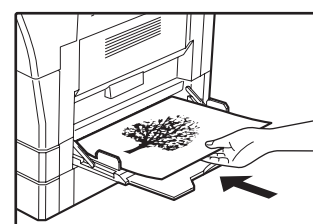
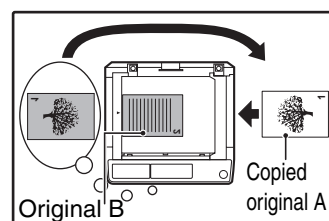
### Horizontally-oriented original:

If the original is oriented horizontally, place it with the top and bottom and left and right sides reversed with respect to the placement of original A.

## 3 Turn the copy of original A over, and without changing the position of the edge closest to you, insert it in the bypass tray.



Insert the paper all the way in.



### Note

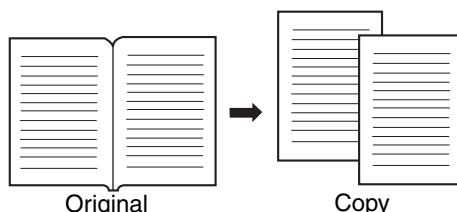
- Copies made on the back side of paper should always be made one sheet at a time using the bypass tray.
- Straighten curled or wavy paper before using it. Curled paper may cause misfeeds, creases, or a poor-quality image.
- After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

## 4 Select the bypass tray with the [PAPER SELECT] key ( ), and then press the [START] key ( ).

The copy is delivered to the paper output tray.

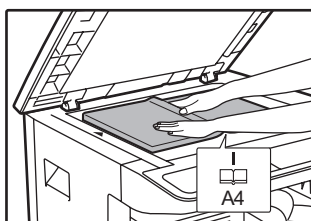
# DUAL PAGE COPYING

A dual page original can be automatically separated into two pages during copying. This feature is convenient for making copies of books and other dual page originals on individual sheets of paper.



- A4 paper is used for dual page copying.
- When used in combination with XY ZOOM copying, enlargement is not possible.
- Dual page copying cannot be used in combination with the enlargement copying.
- Automatic ratio selection cannot be used when dual page copying is used.
- Dual page copying cannot be selected when an original is placed in the SPF.

- 1 Place the original on the document glass, aligning the division between the pages with the size marker (A4). Close the document cover SPF.**



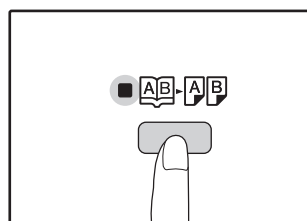
Copying will begin from the page to the right of the size marker.



- To keep the copies in the correct page order when performing dual page copying over multiple pages, make sure that the original is always placed on the document glass with the smaller page number to the right.
- After placing the original, be sure to close the document cover/SPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

- 2 Set the original size to A3.**

- 3 Press the [DUAL PAGE COPY] key (AB-AB) and make sure that the DUAL PAGE COPY indicator (AB-AB) is lit.**



- 4 Make sure that a paper tray with A4 size paper is selected.**

- 5 Set the number of copies and other copy settings, and press the [START] key (⏻).**

The copy will be delivered to the paper output tray.



To cancel dual page copying, press the [DUAL PAGE COPY] key (AB-AB). The DUAL PAGE COPY indicator (AB-AB) will go off, indicating that the function is cancelled.

# INTERRUPTING A COPY RUN

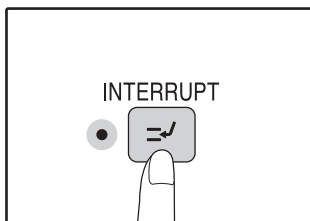
## (Interrupt Copying)

A copy run can be temporarily interrupted to allow another copy job to be performed. When the other job is finished, the copy run will resume using the original copy settings.



Interrupt copying is not possible when the system settings are being configured.

- 1 Press the [INTERRUPT] key (⏏) to interrupt the copy run.**



The INTERRUPT indicator will light up and the machine will revert to the initial settings. (p.8)  
The INTERRUPT indicator will blink until the current copy run stops.



**If "Auditing mode" is enabled:**

"- - -" will appear in the number of copies display. Enter your 3-digit account number. Copying will not be possible unless a correct account number is entered. (p.36)

- 2 Remove the previous original(s) and place the original(s) of the interrupt copy job.**

- 3 Set the number of copies and other copy settings and then press the [START] key (⏏).**

- 4 When the copy job is finished, press the [INTERRUPT] key (⏏) and remove the original(s).**

The INTERRUPT indicator will go off, indicating that the interrupt function is no longer operating. The copy settings will automatically revert to the settings selected for the copy run before the run was interrupted.

- 5 Replace the previous original(s) and press the [START] key (⏏).**

The interrupted copy run will resume.

2

This chapter explains how to use the printer functions.

The procedure for loading paper is the same as for loading copy paper. See ["LOADING PAPER" \(p.9\)](#).



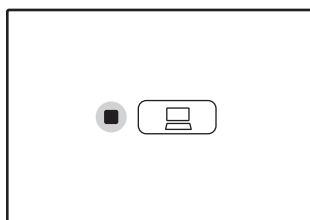
- Print jobs received while the machine is copying will be stored in memory. When the copy job is finished, the print jobs will begin printing.
- Printing is not possible when the front or side cover is opened for machine maintenance, or when a misfeed occurs or the machine runs out of paper or toner, or when the drum cartridge reaches its replacement time.
- If an original misfeed occurs in the SPF, printing will not be possible until the misfed original is removed and the SPF is restored to a usable state.

## BASIC PRINTING

The following example explains how to print a document from WordPad.

Before printing, make sure that the correct size of paper for your document has been loaded in the machine.

### 1 Make sure that the ON LINE indicator on the operation panel is lit.



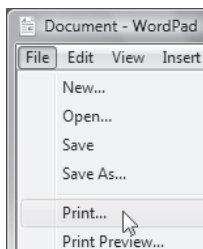
If the ON LINE indicator is not lit, press the [ON LINE] key ( ).

When the indicator is:

- Lit, the machine is online and ready to print, or is printing.
- Blinking, the machine is processing print data in memory or printing has been paused.
- Off, the machine is off-line and cannot print.

### 2 Start WordPad and open the document that you wish to print.

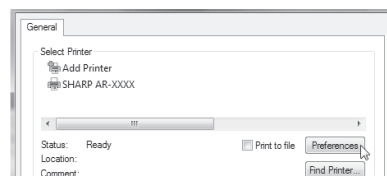
### 3 Select "Print" from the application's "File" menu.



The "Print" dialog box will appear.

### 4 Make sure that "SHARP AR-XXXX" is selected as the printer.

If you need to change any print settings, click the "Preferences" button to open the printer driver setup screen.



The printer driver setup screen will appear.

Windows 2000 does not have the "Preferences" button in this dialog box. Select settings as needed on each of the tabs in the setup screen and click the "OK" button.

["PRINTER DRIVER SETTING SCREEN" \(p.28\)](#)

["SETTING ADVANCED PRINT FUNCTIONS" \(p.29\)](#)



### 5 Click the "Print" button.

Printing begins. When printing begins, the Print Status Window automatically opens.

["OUTLINE OF THE PRINT STATUS WINDOW" \(p.34\)](#)


The print job will be delivered to the output tray.




## If the tray runs out of paper during printing

Add paper to the tray or press the [PAPER SELECT] key (  ) to select a different tray, and then press the [ON LINE] key (  ) to resume printing.

Note that if the "Auto tray switching" setting in the system settings is enabled on a model that has two or more paper trays and there is the same size of paper in another tray, the machine will automatically switch to the other tray and continue printing.

## Pausing a print job



To pause a print job during printing, press the [ON LINE] key (  ) on the operation panel to switch the machine off-line. Printing will be paused and the ON LINE indicator will blink.

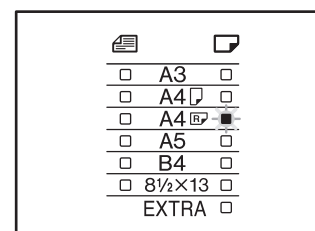
- To cancel a print job, press the [CLEAR] key (  ) or the [CLEAR ALL] key (  ).
- To resume printing, press the [ON LINE] key (  ) to switch the machine online.

## When "Paper Source" is set to "Auto Select"

If "Paper Source" is set to "Auto Select" in the "Paper" tab of the printer driver setup screen and the correct size of paper for a print job is not loaded in the machine, the printing procedure will vary depending on the "Use Close Paper Size" setting in the system settings (p.37).

### When "Use close paper size" is disabled

The PAPER SIZE indicator on the operation panel will blink. You can press the [PAPER SELECT] key (  ) to select a tray manually, or load paper in the bypass tray and press the [ON LINE] key (  ) to begin printing.



3

### When "Use close paper size" is enabled

Printing will take place using a size of paper that is close to the size of the print image.



- For limitations on copying in print mode, and print mode limitations in copy mode, see "OPERATION IN COPY AND PRINTER MODES" (p.14).
- The print image is automatically rotated to fit the paper in the event that the paper is loaded in an orientation different from the print image.

## OPENING THE PRINTER DRIVER FROM THE "Start" BUTTON

You can open the printer driver and change the printer driver settings from the Windows "Start" button. Settings adjusted in this way will be the initial settings when you print from an application. (If you change the settings from the printer driver setup screen at the time of printing, the settings will revert to the initial settings when you quit the application.)

### 1 Click the "Start" button and select "Control Panel" and then select "Printer".

- In Windows XP, click the "start" button, and then click "Printers and Faxes".
- In Windows 2000, click the "Start" button and point to "Settings", and then select "Printers".



In Windows XP, if "Printers and Faxes" does not appear in the "start" menu, select "Control Panel", select "Printers and Other Hardware", and then select "Printers and Faxes".

### 2 Click the "SHARP AR-XXXX" printer driver icon.


### 3 Select "Properties" from the "Organize" menu.

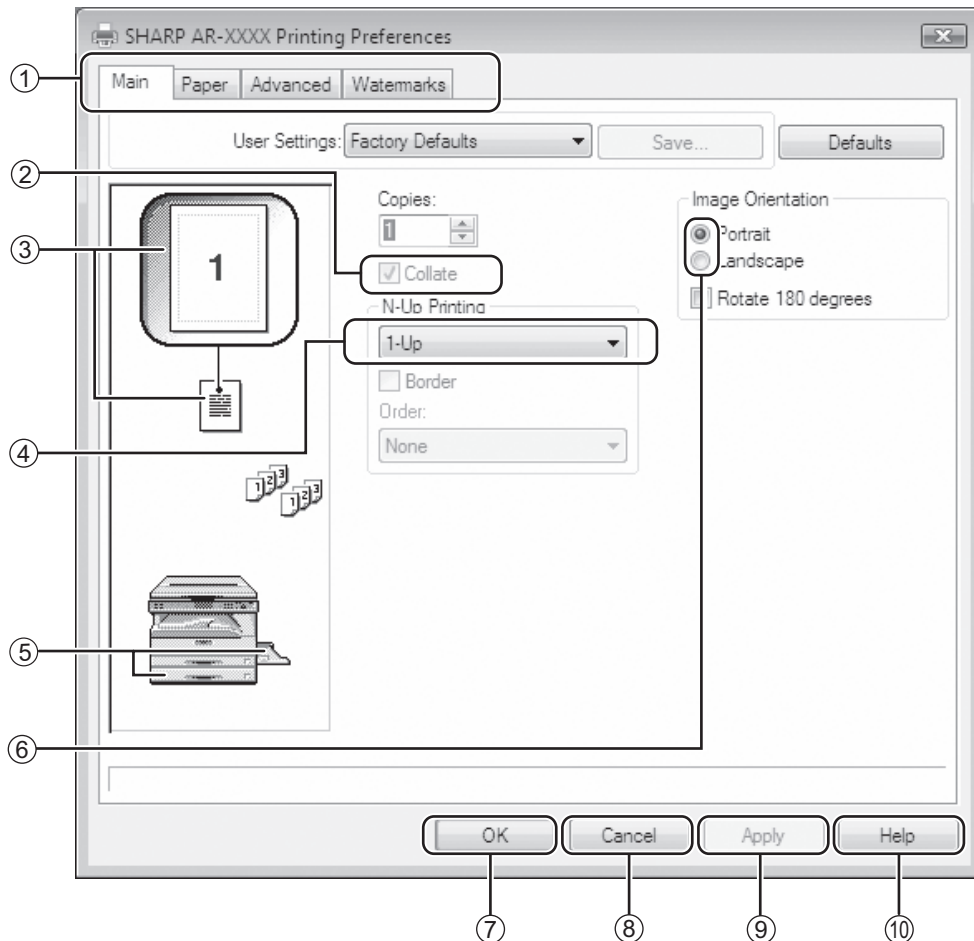
In Windows XP/2000, select "Properties" from the "File" menu.

### 4 Click the "Printing Preferences" button in the "General" tab.

The printer driver setup screen will appear.  
"PRINTER DRIVER SETTING SCREEN" (p.28)

# PRINTER DRIVER SETTING SCREEN

Some restrictions exist on the combinations of settings that can be selected in the printer driver setup screen. When a restriction is in effect, an information icon (  ) will appear next to the setting. Click the icon to view an explanation of the restriction.



The settings and the image of the machine will vary depending on the model.

## ① Tab

The settings are grouped on tabs. Click on a tab to bring it to the front.

## ② Checkbox

Click on a checkbox to activate or deactivate a function.

## ③ Print setting image

This shows the effect of the selected print settings.

## ④ Drop-down list

Allows you to make a selection from a list of choices.

## ⑤ Image of paper trays

The tray selected in "Paper Selection" in the "Paper" tab appears in blue. You can also click on a tray to select it.

## ⑥ Check button

Allows you to select one item from a list of options.

## ⑦ "OK" button

Click this button to save your settings and exit the dialog box.

## ⑧ "Cancel" button

Click this button to exit the dialog box without making any changes to the settings.

## ⑨ "Apply" button

Click to save your settings without closing the dialog box.

## ⑩ "Help" button

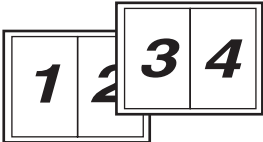
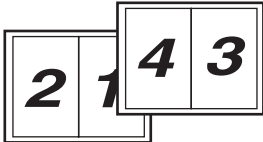
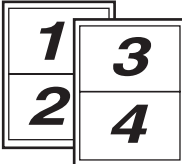
Click this button to display the help file for the printer driver.



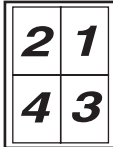

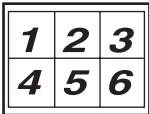
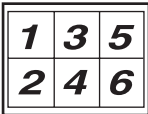
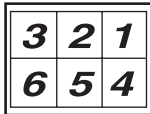
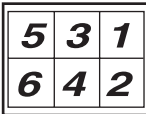
# SETTING ADVANCED PRINT FUNCTIONS

This section explains major advanced print functions.  
The explanations assume that the paper size and other basic settings have already been selected. For the basic procedure for printing and the steps for opening the printer driver, see ["BASIC PRINTING" \(p.26\)](#).

## PRINTING MULTIPLE PAGES ON ONE PAGE (N-Up Printing)

This function can be used to reduce the print image and print multiple pages on a single sheet of paper.  
This is convenient when you want to print multiple images such as photos on a single sheet of paper, and when you want to conserve paper.  
The following print results will be obtained, depending on the order selected.

N-Up (Pages per sheet)	Print results		
	Left To Right	Right To Left	Top To Bottom (when the print orientation is landscape)
2-Up (2 pages per sheet)			

N-Up (Pages per sheet)	Right, and Down	Down, and Right	Left, and Down	Down, and Left
4-Up (4 pages per sheet)				
6-Up (6 pages per sheet)				

**1** Click the "Main" tab in the printer driver setup screen.

**2** Select the number of pages per sheet.

N-Up Printing

2-Up

☒ Border

Order:

Left To Right

If you wish to print borderlines, check the "Border" box.

**3** Select the order of the pages.

N-Up Printing

2-Up

☒ Border

Order:

Left To Right

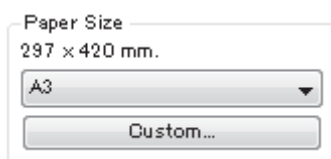
# FITTING THE PRINTED IMAGE TO THE PAPER

## (Fit To Paper Size)

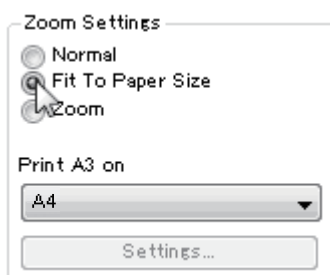
The printer driver can adjust the size of the printed image to match the size of the paper loaded in the machine. Follow the steps shown below to use this function. The explanation below assumes that you intend to print an A3 size document on A4 size paper.

**1** Click the "Paper" tab in the printer driver setup screen.

**2** Select the original size (A3) of the print image in "Paper Size".

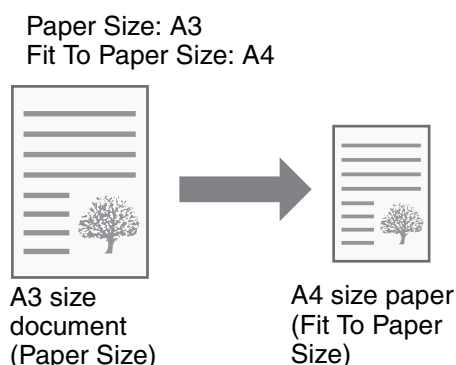


**3** Check the "Fit To Paper Size" button.



**4** Select the actual size of paper to be used for printing (A4).

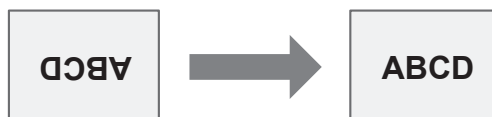
The size of the printed image will be automatically adjusted to match the paper loaded in the machine.



# ROTATING THE PRINT IMAGE 180 DEGREES

## (Rotate 180 degrees)

The feature rotates the image 180 degrees so that it can be printed correctly on paper that can only be loaded in one orientation (such as envelopes).



**1** Click the "Main" tab in the printer driver setup screen.

**2** Check the "Rotate 180 degrees" box.



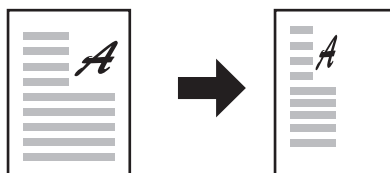


# ENLARGING/REDUCING THE PRINT IMAGE (Zoom)

This function is used to enlarge or reduce the image to a selected percentage. This allows you to enlarge a small image or add margins to the paper by slightly reducing an image.

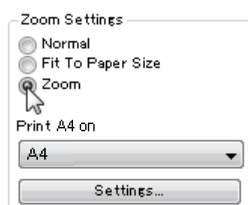


The "Zoom" setting is not available when "N-Up Printing" is selected.



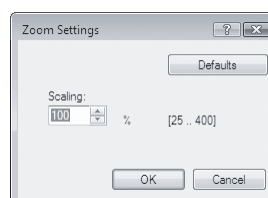
**1** Click the "Paper" tab in the printer driver setup screen.

**2** Select "Zoom" and click the "Settings" button.



The actual paper size to be used for printing can be selected from the pop-up menu.

**3** Select the zoom ratio.



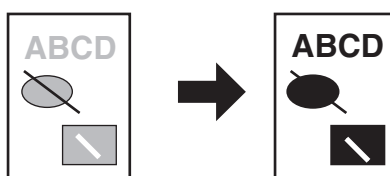
Directly enter a number or click the button to change the ratio in increments of 1%.

3

# PRINTING FAINT TEXT AND LINES IN BLACK

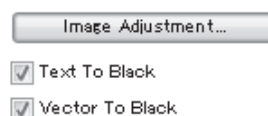
(Text To Black/Vector To Black)

When printing a colour image, colour text and lines that are faint can be printed in black. (Raster data such as bitmap images cannot be adjusted.) This allows you to bring out colour text and lines that are faint and difficult to see.



**1** Click the "Advanced" tab in the printer driver setup screen.

**2** Check the "Text To Black" box and/or the "Vector To Black" box.



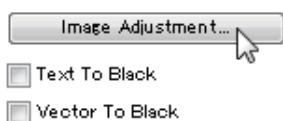
- "Text To Black" can be selected to print all text other than white text in black.
- "Vector To Black" can be selected to print all vector graphics other than white lines and areas in black.

# ADJUSTING THE BRIGHTNESS AND CONTRAST OF THE IMAGE (Image Adjustment)

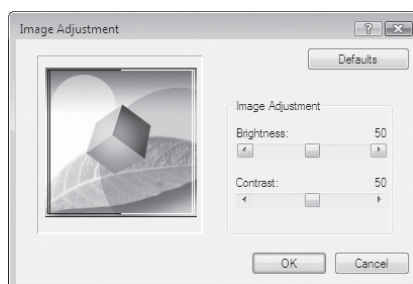
The brightness and contrast can be adjusted in the print settings when printing a photo or other image. These settings can be used for simple corrections when you do not have image editing software installed on your computer.




**1** Click the "Advanced" tab in the printer driver setup screen.

**2** Click the "Image Adjustment" button.



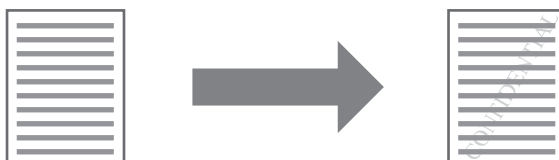
**3** Adjust the image settings.



To adjust a setting, drag the slide bar  or click the  or  button.

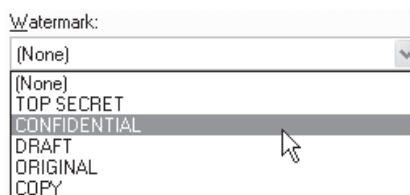
# ADDING A WATERMARK TO PRINTED PAGES (Watermark)

Faint shadow-like text can be added to the background of the printed image as a watermark. The size, density, and angle of the watermark text can be adjusted. The text can be selected from a pre-stored list, or entered to create an original watermark.



**1** Click the "Watermarks" tab in the printer driver setup screen.

**2** Select the watermark settings.



Select a stored watermark from the pull-down menu. You can click the "Edit" button to edit the font and select other detailed settings.



If you wish to create a new watermark, enter the text of the watermark in the "Text" box and click the "Add" button.

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# SAVING FREQUENTLY USED PRINT SETTINGS

Settings configured on each of the tabs at the time of printing can be saved as user settings. Saving frequently used settings or complex colour settings under an assigned name makes it easy to select those settings the next time you need to use them.

## SAVING SETTINGS AT THE TIME OF PRINTING

### (User Settings)

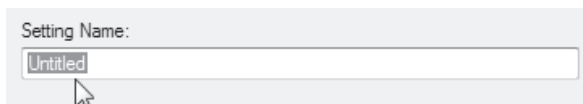
Settings can be saved from any tab of the printer driver properties window. Settings configured on each tab are listed at the time of saving, allowing you to check the settings as you save them.

For the steps for opening the printer driver, see ["BASIC PRINTING" \(p.26\)](#).

#### 1 Configure print settings on each tab and click the "Save" button on any tab.



#### 2 After checking the displayed settings, enter a name for the settings (maximum of 20 characters).



- Up to 30 sets of user settings can be saved.
- A watermark that you created cannot be saved in user settings.

#### 3 Click the "OK" button.

### Using saved settings

Select the user settings that you wish to use on any tab.

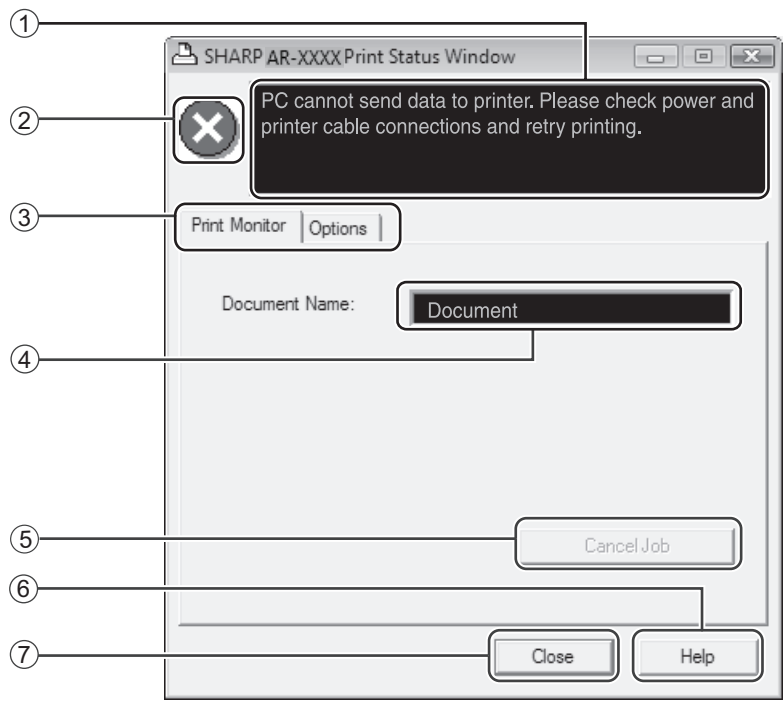


### Deleting saved settings

Select the user settings that you want to delete in ["Using saved settings"](#) (above), and click the "Delete" button.

# OUTLINE OF THE PRINT STATUS WINDOW

When printing begins, the Print Status Window automatically opens. The Print Status Window is a utility that monitors the machine and shows the name of the document being printed and any error messages that occur.





① **Status window**

Provides information on the current status of the printer.

② **Status icon**

The status icons appear to alert you to printer errors. Nothing appears when printing is taking place normally.

The icons are explained below. Follow the instructions in the status window to solve the problem.

Icon	Print Status
	An error has occurred that requires immediate attention.
	An error has occurred that requires attention soon.

③ **Tab**

Click a tab to bring it to the front. The "Options" tab allows you to select display options for the Print Status Window.

④ **Document Name**

Shows the name of the document currently being printed.

⑤ **"Cancel Job" button**

Printing can be cancelled by clicking this button before the machine receives the job.

⑥ **"Help" button**

Click this button to display the help file for the Print Status Window.

⑦ **"Close" button**

Click this button to close the Print Status Window.

This chapter explains how to set the automatic exposure level and the system settings, which are custom settings that control fine points of the machine's operation.

## ADJUSTING THE AUTOMATIC EXPOSURE LEVEL

The exposure level used in automatic exposure adjustment, which automatically adjusts the copy exposure according to the original, can be adjusted. If copies tend to be too dark or too light when automatic exposure adjustment is used, follow the steps below to adjust the automatic exposure level.

The automatic exposure level can be adjusted separately for the document glass and the SPF.



The copy and printer functions cannot be used while the automatic exposure level is being adjusted.

- 1 To adjust the automatic exposure level in the SPF, place the original in the SPF. (p.16)**

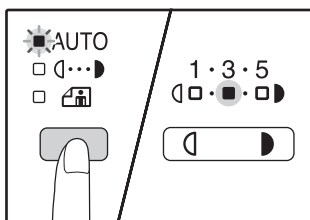
Make sure that the SPF indicator is lit.



To adjust the automatic exposure level for copies made from originals placed on the document glass, proceed to step 2.

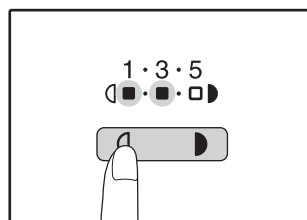
- 2 Press the [AUTO/TEXT/PHOTO] key ( ) to select "PHOTO" ( ).**

- 3 Hold down the [AUTO/TEXT/PHOTO] key ( ) until the AUTO indicator ( ) blinks.**



The exposure level indicators show the current setting.

- 4 Press the [Light] key ( ) or [Dark] key ( ) to lighten or darken the automatic exposure level as desired.**



- 5 Press the [AUTO/TEXT/PHOTO] key ( ) to complete the setting.**

The AUTO indicator ( ) stops blinking and lights steadily.



After adjusting the automatic exposure level, it is recommended that you make a test copy to check the new level.

# CUSTOMISING SETTINGS (System Settings)


The system settings allow you to customise the machine to match your needs.

## SYSTEM SETTINGS

Program number	Program name	Setting codes (factory default setting appears in bold)	Explanation
1	Auto clear time	1: OFF 2: 10 sec. 3: 20 sec. <b>4: 60 sec.</b> 5: 90 sec. 6: 120 sec.	<ul style="list-style-type: none"> <li>"Auto clear time" automatically returns the copy settings to the initial settings (p.8) when a certain period of time elapses after a copy is made. This program is used to select the period of time. "Auto clear time" can also be disabled.</li> </ul>
2	Preheat mode	<b>1: 1 min.</b> 2: 5 min. 3: 30 min. 4: 60 min. 5: 120 min. 6: 240 min.	<ul style="list-style-type: none"> <li>This function automatically switches the machine to a low power consumption state if the set duration of time elapses without the machine being used when the power is on. The POWER SAVE indicator (Ⓢ) lights up, however, the keys on the operation panel can be used. Normal operation automatically resumes when a key on the operation panel is pressed, a print job is received or an original is placed.</li> </ul>
3	Auto power shut-off timer	<b>1: 5 min.</b> 2: 30 min. 3: 60 min. 4: 120 min. 5: 240 min.	<ul style="list-style-type: none"> <li>This function automatically switches the machine to a state that consumes even less power than preheat mode if the set duration of time elapses without the machine being used when the power is on. All lights except the POWER SAVE indicator (Ⓢ) and ON LINE indicator go off. To resume normal operation, press the [START] key (Ⓢ). Normal operation also resumes automatically when a print job is received. While in auto power shut-off mode, no keys (except the [START] key (Ⓢ)) can be used.</li> </ul>
4	Stream feeding mode <sup>*1</sup>	<b>0: OFF</b> 1: ON	<ul style="list-style-type: none"> <li>When copying using the SPF, during the period of time that the SPF indicator blinks after an original has been scanned (about 5 seconds), a subsequent original can be placed and automatically fed into the machine.</li> </ul>
5	Auto power shut-off setting	0: OFF <b>1: ON</b>	<ul style="list-style-type: none"> <li>Use this setting to enable or disable auto power shut-off.</li> </ul>
8	Auto paper select mode <sup>*2</sup>	0: OFF <b>1: ON</b>	<ul style="list-style-type: none"> <li>This function automatically selects paper that is the same size as the original placed in the SPF, or the same size as that selected with the [ORIGINAL] key (ORIGINAL). The function can be disabled.</li> </ul>
9	Auto tray switching <sup>*2</sup>	0: OFF <b>1: ON</b>	<ul style="list-style-type: none"> <li>If the paper runs out during printing and there is paper of the same size and orientation in another tray, this function automatically switches to that tray (excluding the bypass tray). The function can be disabled.</li> </ul>
10 to 15	Auditing mode	—	See "AUDITING MODE SETTINGS" (p.39).

<sup>\*1</sup> When the SPF is installed.

<sup>\*2</sup> When there are two or more paper trays.

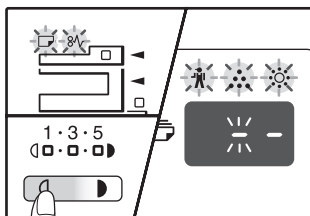
Program number	Program name	Setting codes (factory default setting appears in bold)	Explanation
23	Resolution in Auto/Text mode	<b>1: 300 dpi</b> 2: 600 dpi	<ul style="list-style-type: none"> <li>This setting is used to change the copy resolution in AUTO and TEXT mode from 600 x 300 dpi to 600 x 600 dpi (high-quality mode). Scanning is slower when high-quality mode is used.</li> </ul>
25	Key auto repeat	0: OFF <b>1: ON</b>	<ul style="list-style-type: none"> <li>Use this setting to select whether or not holding down a key causes repeated input of the key. For keys that normally cause a set value to increase when held down (for example, holding down the [ZOOM] key (  )), this program can be used to have the set value not change when the key is held down.</li> </ul>
26	Key press time	<b>1: Minimum</b> (current response speed) 2: 0.5 sec. 3: 1.0 sec. 4: 1.5 sec. 5: 2.0 sec.	<ul style="list-style-type: none"> <li>Use this setting to select how long a key must be pressed for the input to be accepted. By selecting a longer time, you can prevent settings from being changed by the accidental pressing of a key.</li> </ul>
27	Audible signals volume	<b>1: Short beep</b> 2: Long beep 3: OFF	<ul style="list-style-type: none"> <li>This sets the volume of beep signals. (p.38)</li> </ul>
28	Base setting beep signal	<b>0: OFF</b> 1: ON	<ul style="list-style-type: none"> <li>Use this to sound a beep when a base setting is selected. (p.38)</li> </ul>
29	Number of copies limit	1: 99 copies <b>2: 999 copies</b>	<ul style="list-style-type: none"> <li>Use this setting to select 99 or 999 for the maximum number of copies.</li> </ul>
30	Use close paper size	<b>0: OFF</b> 1: ON	<ul style="list-style-type: none"> <li>When this function is enabled, printing in printer mode will automatically continue using a different size of paper if the specified size of paper runs out in all trays. This feature does not function in copy mode.</li> </ul>
31	Default tray setting <sup>*3</sup>	<b>1: Upper paper tray</b> 2: Lower paper tray 3: 250-sheet paper feed unit/ Upper paper tray of 2 x 250-sheet paper feed unit 4: Lower paper tray of 2 x 250-sheet paper feed unit 5: Bypass tray	<ul style="list-style-type: none"> <li>Use this program to select a default tray. This tray is automatically selected each time the power is turned on or each time the machine reverts to the initial settings.</li> </ul>
32	Default exposure mode	<b>1: AUTO</b> 2: TEXT 3: PHOTO	<ul style="list-style-type: none"> <li>Use this program to set "AUTO", "TEXT", or "PHOTO" as the default exposure mode.</li> </ul>
33	USB 2.0 mode switching	1: Full-Speed <b>2: Hi-Speed</b>	<ul style="list-style-type: none"> <li>This sets the USB 2.0 data transfer speed. If your computer is not compatible with USB 2.0 (Hi-Speed), use this program to change the USB 2.0 mode to "Full-Speed".</li> </ul>

<sup>\*3</sup> AR-5516S is as follows:

- 1: Upper tray (factory default),
- 2: 250-sheet paper feed unit/Upper paper tray of 2 x 250-sheet paper feed unit,
- 3: Lower paper tray of 2 x 250-sheet paper feed unit,
- 5: Bypass tray

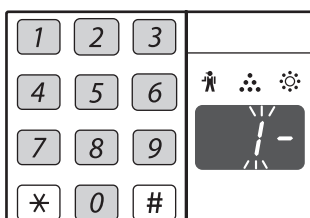
# SELECTING A SETTING FOR A SYSTEM SETTING

- 1** Hold down the [Light] key (  ) until the alarm indicators ( , , , ,  ) blink.




The display shows "- -" with the left hyphen blinking.

- 2** Enter the program number with the numeric keys.

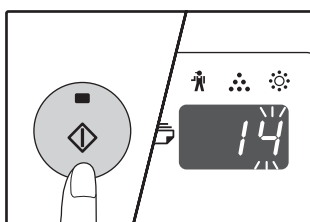


- See "SYSTEM SETTINGS" (p.36 to p.37) for the program numbers.
- The selected program number blinks.
- For example, to select "Auto clear timer", press the [1] key.



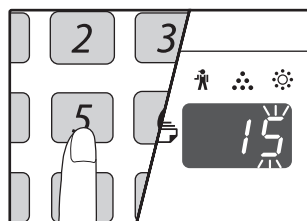
If you enter the wrong number, press the [CLEAR] key (  ) and then enter the correct number.

- 3** Press the [START] key (  ).




- The selected program number stops blinking and lights steadily.
- The currently selected setting code blinks on the right side of the display.

- 4** Enter the desired setting code by pressing a numeric key.

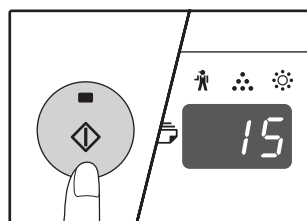


- For the setting codes, see "SYSTEM SETTINGS". (p.36 to p.37)
- The selected setting code blinks.
- For example, to select 90 seconds, press the [5] key.




If you enter the wrong number, press the [CLEAR] key (  ) and return to step 2.

- 5** Press the [START] key (  ).








The selected setting code stops blinking and lights steadily.



To select a setting for another system setting, press the [CLEAR] key (  ) and then return to step 2.

- 6** Press the [Light] key (  ) to complete the settings.

The alarm indicators ( , , , ,  ) go off and the display returns to the number of copies display.

## Audible signals (key entry beep, invalid key beep, base setting beep)

The machine sounds three different types of beep signals: a key entry beep that sounds when a valid key is pressed, an invalid key beep that sounds when an invalid key is pressed, and a base setting beep that sounds when a setting is the same as the base setting (base settings are explained below). The base setting beep is initially disabled. If you wish to enable the base setting beep, see "Base setting beep signal" on page 37. If you wish to change the volume of the beep signals or disable them, see "Audible signals volume" on page 37. The beep patterns of each type of beep signal are as follows:

Key entry beep ..... One beep  
Invalid key beep ..... Two beeps

Base setting beep ..... Three beeps

## Base settings

The base settings are preset standard selections for each copy setting. The base settings are as follows:

Copy ratio ..... 100%  
Light and Dark indicator ..... 3  
Paper feed location ..... Upper paper tray

ORIGINAL SIZE ..... A4  
AUTO/TEXT/PHOTO ( AUTO /  /  )  
..... AUTO



# SETTINGS FOR AUDITING MODE

## AUDITING MODE

When "Auditing mode" is enabled, a count is kept of the number of copies made by each account (up to 20 accounts can be established), and the counts can be displayed and totalled as necessary. In "Auditing mode", the display shows "- - -", and this indicates that a 3-digit account number must be entered in order to use the machine for copying.




The administrator of the machine should complete the following settings:

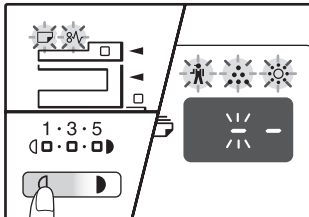
- Enable "Auditing mode" (p.41)
- Account number entry (p.41)

## AUDITING MODE SETTINGS

Program number	Program name	Setting codes (factory default settings are indicated in bold)	Explanation
10	Auditing mode	<b>0: OFF</b> 1: ON	Use to enable or disable "Auditing mode". "Auditing mode" is initially disabled.
11	Account number entry	None	Use to set up account numbers. Up to 20 accounts can be established.
12	Account number change	None	Use to change an account number.
13	Account number deletion	<b>0: Delete single account</b> 1: Delete all accounts	Use to delete an account number. A single account number can be deleted, or all account numbers at once.
14	Number of copies per account	None	This displays the number of copies made by each account. The maximum count is 49,999. If this number is exceeded, the count will start over from 0.
15	Resetting account	<b>0: Reset single account</b> 1: Reset all accounts	Use to reset the copy count of an account to 0. The copy count of a single account or of all accounts can be reset.

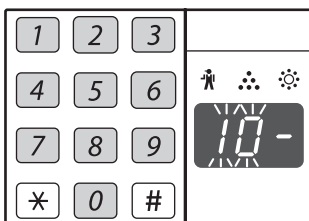
# SELECTING AUDITING MODE SETTINGS

- 1** Hold down the [Light] key (  ) until the alarm indicators ( , , , ,  ) blink.




The display shows "- -" with the left hyphen blinking.

- 2** Enter the program number with the numeric keys.

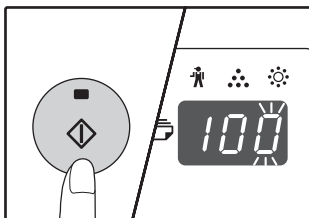


- See "AUDITING MODE SETTINGS" (p.39) for the program numbers.
- The selected program number blinks.
- For example, to select "Auditing mode", enter "10".



If you enter the wrong number, press the [CLEAR] key (  ) and then enter the correct number.

- 3** Press the [START] key (  ).





- The selected program number stops blinking and lights steadily.
- The currently selected setting code blinks on the right side of the display.






- 4** Enter the desired setting code for the program as explained in the detailed procedures on the following pages.

For the setting codes, see "AUDITING MODE SETTINGS" (p.39).



- If you enter the wrong number, press the [CLEAR] key (  ) and return to step 2.
- If "E" (error code) blinks in the first digit of the display, press the [CLEAR] key (  ) and return to step 2.

- 5** Press the [Light] key (  ) to complete the settings.

The alarm indicators ( , , , ,  ) go off and the display returns to the number of copies display.

## Auditing mode (program No.10)

- 1 Press the [1] key to enable "Auditing mode" or the [0] key to disable it, and then press the [START] key (⏻).



After enabling "Auditing mode", use "Account number entry" to establish account numbers for each account (up to 20 accounts can be established).

- 2 Press the [CLEAR] key (C).

## Account number entry (program No.11)

If 20 accounts have already been established, the error code "11E" will appear in the display.

- 1 Use the numeric keys to enter a 3-digit number (any number except "000") and then press the [START] key (⏻).



- If you enter "000" or a number that has already been stored, the number will blink in the display. Enter a different number. (Up to 20 accounts can be established.)
- Repeat the same procedure to enter any other account numbers that you wish to establish.
- Keep a record of what group is using each account number (account names cannot be stored, so keep a record to prevent confusion when totalling account values).

- 2 Press the [CLEAR] key (C).

## Account number change (program No.12)

Use this procedure to change an account number. If no account numbers have been established, the error code "12E" will appear in the display.

- 1 Press the [Copy ratio display] key (⌘) to select the account number that you wish to change, and then press the [START] key (⏻).

The display will show 3 blinking hyphens "- - -".

- 2 Press the numeric keys to enter a new account number (any 3-digit number except "000"), and then press the [START] key (⏻).



- If you enter "000" or a number that has already been stored, the number will blink in the display. Enter a different number.
- To change another account number, repeat steps 1 and 2.

- 3 When finished, press the [CLEAR] key (C).

## Account number deletion (program No.13)

Use this procedure to delete account numbers. A single account number can be deleted, or all account numbers at once.

If no account numbers have been established, the error code "13E" will appear in the display.

### [Deleting all accounts at once]

Press the [1] key and then press the [START] key (⏻).

All account numbers will be deleted.

### [Deleting a single account]

- 1 Press the [0] key, and then press the [START] key (⏻).
- 2 Select the account number to be deleted with the [Copy ratio display] key (⌘) and then press the [START] key (⏻).



To delete another account number, enter the program number (13) for account number deletion and then repeat the procedure for "Deleting a single account".

## Number of copies per account (program No.14)

Use this procedure to display the copy count of each account. If no account numbers have been established, the error code "14E" will appear in the display.

- 1 Select the account number with the [Copy ratio display] key (⌘).
- 2 Hold down the [0] key.

The copy count of the selected account will appear in the display while you hold down the [0] key. The count is displayed sequentially as shown below.

Example: 12,345 copies



- Each A3 size page is counted as two pages.
- To view the copy count of another account, repeat steps 1 and 2.

- 3 When finished, press the [CLEAR] key (C).

Resetting account  
(program No.15)

The copy count of a single account or all accounts can be reset to 0. If no account numbers have been established, the error code "15E" will appear in the display.

[Resetting all accounts]

Press the [1] key and then press the [START] key (⏻).

The copy counts of all accounts will be deleted.

[Resetting a single account]

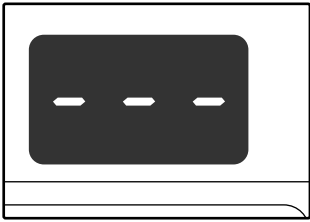
- 1 Press the [0] key, and then press the [START] key (⏻).
- 2 Select the account number to be reset with the [Copy ratio display] key (⏻) and then press the [START] key (⏻).



To reset another account number, enter the program number (15) for account number deletion and then repeat the procedure for "Resetting a single account".

Copying when "Auditing mode" is enabled

When "Auditing mode" is enabled, "- - -" appears in the display.



1 Enter your 3-digit account number with the numeric keys.

When you enter your account number, "0" appears in the display to indicate that copying is possible.



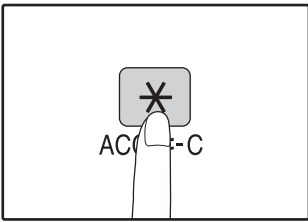
If you enter an incorrect number, press the [CLEAR] key (⏻) and then enter the correct number.

2 Follow the appropriate steps to make the copy.



If you are performing an interrupt copy (p.25), be sure to press the [INTERRUPT] key (⏻) when finished to exit interrupt mode.

3 When finished, press the [\*] key (ACC.#-C).



If a misfeed occurs or the paper runs out during copying, your session will not end even if the [\*] key (ACC.#-C) is pressed.

This chapter describes troubleshooting and misfeed removal.

## TROUBLESHOOTING

If you experience difficulty using the machine, check the following troubleshooting guide before calling for service. Many problems can be easily resolved by the user. If you are unable to solve the problem using the troubleshooting guide, turn off the power switch and unplug the machine, and contact your authorised service representative.

### MACHINE/COPYING PROBLEMS

The machine does not operate. ....	44
Copies are too dark or too light. ....	44
Blank copies. ....	44
Part of the image is cut off or there is too much blank space. ....	44
Wrinkles appear in the paper or the image disappears in places. ....	44
Paper misfeed. ....	45
Original size not selected automatically. (When the SPF is installed.) ....	45
Copies are smudged or dirty. ....	46
White or black lines appear on copies. ....	46
Paper size for a paper tray cannot be set. ....	46
A copy job stops before it is finished. ....	46
The POWER SAVE indicator (⏻) is lit. ....	46
Any one of the alarm indicators (🔊, 📶, 🌞, 📄, ⚡) is lit or blinking. ....	46
Lighting fixture flickers. ....	46

### PRINTING PROBLEMS

The machine does not print. (ON LINE indicator does not blink.) ....	47
The machine does not print. (ON LINE indicator was blinking.) ....	47
Printing is slow. ....	48
The printed image is light and uneven. ....	48
The printed image is dirty. ....	48
The printed image is skewed or it runs off the paper. ....	48
The printed image is darker or lighter than expected. ....	48
Any one of the alarm indicators (🔊, 📶, 🌞, 📄, ⚡) is lit or blinking. ....	48

### INDICATORS AND DISPLAY MESSAGES..... 49

### MISFEED REMOVAL..... 50

### REPLACING THE TONER CARTRIDGE..... 57

# MACHINE/COPYING PROBLEMS

The following problems are related to the general operation of the machine and copying.

Problem	Cause and solution	Page
The machine does not operate.	<b>The machine is not plugged into a power outlet.</b> → Plug the machine into a grounded outlet.	—
	<b>Power switch OFF.</b> → Turn the power switch ON.	8
	<b>The POWER SAVE indicator (⏻) is blinking.</b> → Indicates that the machine is warming up. Copies cannot be made until the machine has finished warming up.	8
	<b>The front cover or the side cover is not completely closed.</b> → Close the front cover or the side cover.	—
	<b>The machine is in auto power shut-off mode.</b> → In auto power shut-off mode, all lights are off except the POWER SAVE indicator (⏻) and ON LINE indicator. Press the [START] key (⏻) to resume normal operation.	8
	<b>PAPER SIZE indicator is blinking.</b> → A blinking PAPER SIZE indicator means that the size of paper loaded in the tray is different from the paper size setting for the tray. Change the paper size setting. To clear the display, do one of the following: <ul style="list-style-type: none"> <li>• Use the [PAPER SELECT] key (PAPER) to change the tray selection.</li> <li>• Open and close the tray.</li> <li>• Press the [CLEAR ALL] key (CA).</li> </ul>	12, 18
Copies are too dark or too light.	<b>Select the correct original type for the original.</b> → Select AUTO with the [AUTO/TEXT/PHOTO] key or press the [Light] key (□) and [Dark] key (■) to manually select an appropriate exposure. → If the copy is too light or too dark even though AUTO was selected with the [AUTO/TEXT/PHOTO] key (AUTO / □...■ / 📄), adjust the automatic exposure level.	18 35
Blank copies.	<b>The original is not placed face up in the SPF or face down on the document glass.</b> → Place the original face up in the SPF or face down on the document glass.	15, 16
Part of the image is cut off or there is too much blank space.	<b>The original was not placed in the correct position.</b> → Place the original correctly.	15, 16
	<b>An appropriate ratio was not used for the size of the original and the size of the paper.</b> → Press the [AUTO IMAGE] key (AUTO %) to have the copy made using the appropriate ratio for the original and paper.	19
	<b>The size of paper loaded in the tray was changed without changing the tray's paper size setting.</b> → Be sure to change the tray's paper size setting whenever you change the size of paper loaded in the tray.	12
Wrinkles appear in the paper or the image disappears in places.	<b>The paper is outside of the specified size and weight range.</b> → Use copy paper within the specified range.	9
	<b>Paper curled or damp.</b> → Do not use curled or crimped paper. Replace with dry copy paper. During periods when the machine is not used for a long time, remove the paper from the tray and store it in a dark place in a bag to prevent moisture absorption.	—




Problem	Cause and solution	Page
<b>Paper misfeed.</b>	<b>Misfeed occurs.</b> → To remove the misfeed, see "MISFEED REMOVAL".	50
	<b>The paper is outside of the specified size and weight range.</b> → Use copy paper within the specified range.	9
	<b>Paper curled or damp.</b> → Do not use curled or crimped paper. Replace with dry copy paper. During periods when the machine is not used for a long time, remove the paper from the tray and store it in a dark place in a bag to prevent moisture absorption.	—
	<b>Paper is not loaded properly.</b> → Make sure the paper is properly installed.	10
	<b>Pieces of paper inside machine.</b> → Remove all pieces of misfed paper.	50
	<b>Too much paper is loaded in the tray.</b> → If the stack of paper is higher than the indicator line on the tray, remove some of the paper and reload so that the stack does not exceed the line.	10
	<b>Some sheets of paper stick together.</b> → Fan the paper well before loading it.	10
	<b>The guides on the bypass tray do not match the width of the paper.</b> → Adjust the guides to match the width of the paper.	11
	<b>The bypass tray extension is not pulled out.</b> → When loading a large size of paper, pull out the extension.	11
	<b>The bypass paper feed roller is dirty.</b> → Clean the roller.	61
	<b>A5 paper is loaded in lower paper tray or in the 250-sheet or 2 x 250-sheet paper feed unit.</b> → A5 size paper must be loaded in upper paper tray or the bypass tray.	9, 10
<b>Original size not selected automatically.</b> (When the SPF is installed.)	<b>Original(s) curled.</b> → The original size cannot be correctly detected if the original is curled or folded. Straighten the original.	—
	<b>The machine is directly exposed to sunlight.</b> → Install in a location that is not exposed to sunlight.	—






Problem	Cause and solution	Page
<b>Copies are smudged or dirty.</b>	<b>The document glass or the underside of the document cover/SPF is dirty.</b> → Clean regularly.	60
	<b>Original smudged or blotchy.</b> → Use a clean original.	—
<b>White or black lines appear on copies.</b>	<b>The scanner glass for the SPF is dirty.</b> → Clean the long, narrow scanning glass.	60
	<b>The transfer charger is dirty.</b> → Clean the transfer charger.	61
<b>Paper size for a paper tray cannot be set.</b>	<b>Copying or printing is performed.</b> → Set the paper size after copying or printing is complete.	—
	<b>The machine has stopped temporarily due to running out of paper or a misfeed.</b> → Load paper or remove the misfeed, and then set the paper size.	10, 50
	<b>An interrupt copy job is in progress.</b> → Set the paper size after the interrupt copy job is finished.	25
<b>A copy job stops before it is finished.</b>	<b>The paper output tray is full.</b> → Long copy runs are automatically paused every 250 copies. Remove the copies in the paper output tray and press the [START] key (⏻) to resume copying.	19
	<b>The tray is out of paper.</b> → Load paper.	10
<b>The POWER SAVE indicator (⏻) is lit.</b>	<b>Any other indicators are lit.</b> → If other indicators are lit, the machine is in "Preheat mode". Press any key on the operation panel to resume normal operation.	8
	<b>The POWER SAVE indicator (⏻) and ON LINE indicator are only lit.</b> → If only the POWER SAVE indicator (⏻) and ON LINE indicator are lit, the machine is in auto power shut-off mode. Press the [START] key (⏻) to resume normal operation.	8
<b>Any one of the alarm indicators (⚠, 🔊, 🔦, 📄, ⚡) is lit or blinking.</b>	<b>See "INDICATORS AND DISPLAY MESSAGES" to check the meaning of the alarm indicator and error message in the display, and take appropriate action.</b>	49
<b>Lighting fixture flickers.</b>	<b>The same power outlet being used is for the lighting fixture and the machine.</b> → Connect the machine to a power outlet which is not used for other electric appliances.	—



# PRINTING PROBLEMS

In addition to this section, troubleshooting information can also be found in the README files for each of the software programs. To view a README file, see "INSTALLING THE SOFTWARE" in the Start Guide.









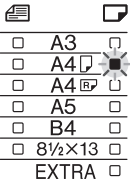



Problem	Cause and solution	Page
<b>The machine does not print.</b> (ON LINE indicator does not blink.)	<b>The machine is set to off-line mode.</b> → Press the [ON LINE] key (  ) to turn on the ON LINE indicator.	26
	<b>The machine is not correctly connected with your computer.</b> → Check both ends of the printer cable and make sure you have a solid connection. Try a known good cable. For information on cables, see "SPECIFICATIONS".	Start Guide
	<b>Copy job is performed.</b> → Wait until the copy job is complete.	—
	<b>Your machine is not selected correctly in the current application for the print job.</b> → When choosing "Print" from the "File" menu located in applications, be sure you have selected "SHARP AR-XXXX" (where XXXX is the model name of your machine) printer displayed in the "Print" dialog box.	—
	<b>The printer driver has not been installed properly.</b> → Follow these steps to check and see if the printer driver is installed. 1 Click the "Start" button, click "Control Panel", and then click "Printer". In Windows XP, click the "start" button, and then click "Printer and Faxes". In Windows 2000, click the "Start" button, select "Settings" and then click "Printers". 2 If the "SHARP AR-XXXX" printer driver icon is shown but you still cannot print, the printer driver may not have been installed correctly. In this case, delete the software and then reinstall it.	—
<b>The machine does not print.</b> (ON LINE indicator was blinking.)	<b>The tray size settings are not the same on the machine and in the printer driver.</b> → Make sure that the same tray paper size is set on the machine and in the printer driver. To change the tray's paper size setting on the machine, see "CHANGING A TRAY'S PAPER SIZE SETTING" or see "CONFIGURING THE PRINTER DRIVER" in the Start Guide to change it in the printer driver.	12, Start Guide
	<b>The specified size of paper has not been loaded.</b> → Load the specified size of paper in the paper tray.	10
	<b>The PAPER SIZE indicator is blinking.</b> → When "Use close paper size (system setting)" is disabled, the PAPER SIZE indicator on the operation panel will blink. You can press the [PAPER SELECT] key (  ) to select a tray manually, or load paper in the bypass tray and press the [ON LINE] key (  ) to begin printing. → When "Use close paper size" is enabled, printing will take place using a size of paper that is close to the size of the print image.	12, 18 —

Problem	Cause and solution	Page
Printing is slow.	<b>Simultaneous use of two or more application software programs.</b> → Start printing after quitting all unused application software programs.	—
The printed image is light and uneven.	<b>The paper is loaded so that printing takes place on the back side of the paper.</b> → Some paper types have a front and back side. If the paper is loaded so that printing takes place on the back side, toner will not adhere well to the paper and a good image will not be obtained.	10
The printed image is dirty.	<b>You are using paper that is outside the specified size and weight range.</b> → Use copy paper within the specified range.	9
	<b>Paper curled or damp.</b> → Do not use curled or crimped paper. Replace with dry copy paper. During periods when the machine is not used for a long time, remove the paper from the tray and store it in a dark place in a bag to prevent moisture absorption.	—
	<b>You did not set sufficient margins in the paper settings of your application.</b> → The top and bottom of the paper may be dirty if the margins are set outside of the specified print quality area. → Set the margins in the software application within the specified print quality area.	—
The printed image is skewed or it runs off the paper.	<b>The paper loaded in the tray is not the same size as that specified in the printer driver.</b> → Check if the "Paper Size" options suit the size of the paper loaded in the tray. → If the "Fit To Paper Size" setting is activated, make sure that the paper size selected from the drop-down list is the same as the size of the loaded paper.	—
	<b>The orientation of document setting is not correct.</b> → Click the "Main" tab in the printer driver setup screen, and verify if the "Image Orientation" option is set to your requirements.	—
	<b>Paper is not loaded properly.</b> → Make sure the paper is properly loaded.	10
	<b>You did not correctly specify the margins for the application in use.</b> → Check the layout of the document margins and the paper size settings for the application you are using. Also check if the print settings are specified correctly to suit the paper size.	—
The printed image is darker or lighter than expected.	<b>The setting for the print density is not appropriate.</b> → You can adjust the print density on the printer driver. Click the "Advanced" tab in the printer driver setup screen, and click the "Compatibility" button. Select the "Print Density Level" from 1 (light) to 5 (dark).	—
Any one of the alarm indicators (  ,  ,  ,  ,  ) is lit or blinking.	See "INDICATORS AND DISPLAY MESSAGES" to check the meaning of the alarm indicator and error message in the display, and take appropriate action.	49

# INDICATORS AND DISPLAY MESSAGES

If one of the following indicators lights up or one of the following messages appears in the display, check the meaning of the indicator or message in the following table and take appropriate action.



Indication			Cause and solution	Page
	Maintenance indicator	Steadily lit	Service by an authorised SHARP service technician is required.	–
	Developer replacement required indicator	Steadily lit	Developer is required. Contact your authorised service representative.	–
	Toner cartridge replacement required indicator	Steadily lit	Replacement of toner cartridge will be needed soon. Prepare a new cartridge.	–
		Blinking	Toner cartridge must be replaced. Replace it with a new one.	57
	Paper required indicator	Steadily lit	The tray is out of paper. Load paper. It is also possible that the tray is not inserted completely into the machine. Make sure it is inserted correctly.	10
	Misfeed indicator	Blinking	A paper misfeed has occurred. Remove the misfeed as explained in "MISFEED REMOVAL".	50
ORIGINAL SIZE indicator		Blinking	The original is not placed in the correct orientation. Rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.	15,16
PAPER SIZE indicator		Blinking	A blinking PAPER SIZE indicator means that the size of paper loaded in the tray is different from the paper size setting for the tray. Change the paper size setting. To clear the display, do one of the following: <ul style="list-style-type: none"><li>• Use the [PAPER SELECT] key () to change the tray selection.</li><li>• Open and close the tray.</li><li>• Press the [CLEAR ALL] key ().</li></ul>	12
[CH] appears in display		Steadily lit	The front cover or the side cover is open. Close the front cover or the side cover.	–
		Blinking	The toner cartridge is not installed correctly. Reinstall the toner cartridge. If [CH] still blinks in the display after reinstalling the toner cartridge, contact your authorised service representative.	57
	Letters and numbers appear in the display		Turn off the power switch, wait about 10 seconds, and then turn on the switch again. If this does not clear the message, write down the code that appears and then unplug the power cord and contact your authorised service representative. Tell your authorised service representative what code appeared and the circumstances under which it appeared.	–
When "Use close paper size" is disabled 			Press the [PAPER SELECT] key (  ) to manually select the tray and then press the [ON LINE] key (  ). Printing will begin. If you are selecting the bypass tray, load paper in the bypass tray.	27
Misfeed location indicator lights up at the optional 2 x 250-sheet/250-sheet paper feed unit 			The side cover of the 2 x 250-sheet/250-sheet paper feed unit is open. Close the side cover.	–

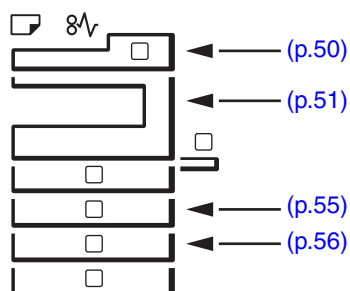
# MISFEED REMOVAL

When a misfeed occurs, the misfeed indicator (8Λ) and a misfeed location indicator (◀) will blink and the machine will automatically stop.

Check the blinking misfeed location indicator to identify the location of the misfeed and remove it.

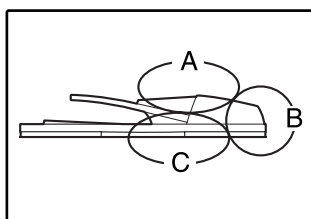


The paper may tear when you remove a misfeed. In this event, be sure to remove all torn pieces of paper from the machine, taking care not to touch the photoconductive drum (the green part). Any scratches or damage to the surface of the drum will cause dirty copies.



## MISFEED IN THE SPF

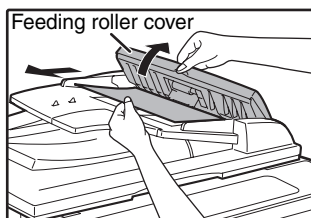
### 1 Remove the misfed original.



Check sections A, B, and C in the left shows the illustration (see the next page), and remove the misfed original.

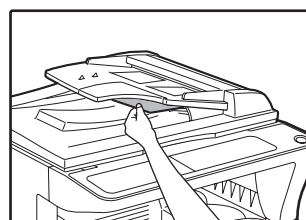
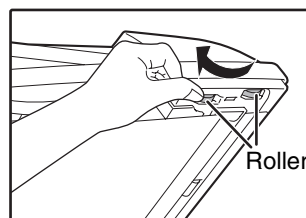
#### Section A

Open the feeding roller cover and remove the misfed original from the document feeder tray. Close the feeding roller cover.

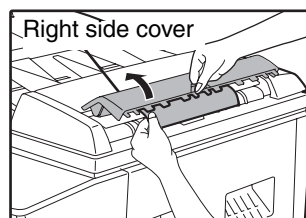


#### Section B

Open the SPF and rotate the two release rollers in the direction of the arrow to feed the original out. Close the SPF and then remove the original.

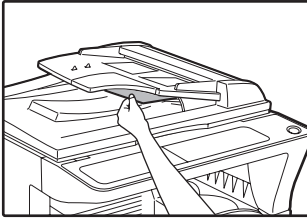


If a small original (A5 etc.) is misfed, or if an original misfeed occurs in the reversing tray of the SPF (if installed), open the right side cover and remove the original. Close the right side cover.



**Section C**

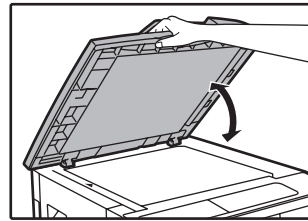
Remove the misfed original from the exit area.



If the misfed original cannot be easily removed from the exit area, open the moveable part of the document feeder tray and remove the original.



## 2 Open and close the SPF to make the misfeed location indicator stop blinking.



You can also make the misfeed indicator stop blinking by opening and closing the feeding roller cover or the right side cover.

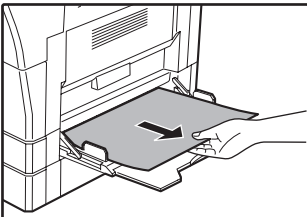
## 3 Return the originals indicated by the minus number in the display to the document feeder tray and press the [START] key (⏻).

Copying will resume from the originals that still remained when the misfeed occurred.

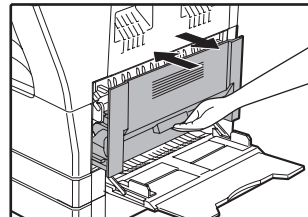
# MISFEED IN THE BYPASS TRAY

5

## 1 Gently pull the misfed paper out.



## 2 Open and close the side cover.



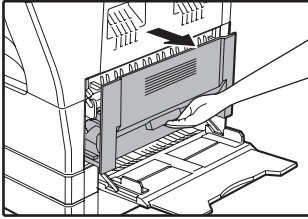
The misfeed indicator (8Λ\_V) will go out.

**Note**

- When closing the side cover, press down on the handle.
- If the misfeed indicator (8Λ\_V) does not stop blinking, check for torn pieces of paper in the machine.

# MISFEED IN THE MACHINE

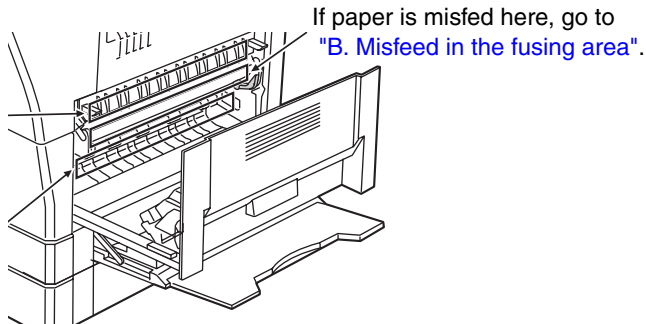
- 1 Open the bypass tray and the side cover.



- 2 Check the misfeed location. Remove the misfed paper following the instructions for each location in the illustration below.

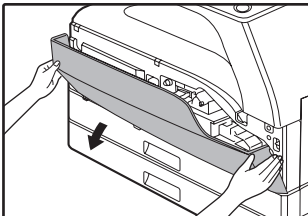
If the misfed paper is visible here, go to "C. Misfeed in the transport area".

If paper is misfed here, go to "A. Misfeed in the paper feed area".

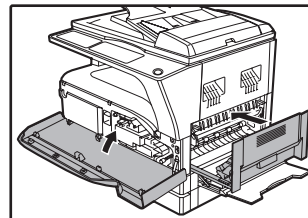


## A. Misfeed in the paper feed area

- 1 Push gently on both ends of the front cover and open it.

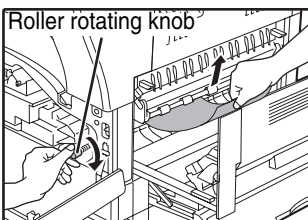


- 3 Close the front cover and side cover.



The misfeed indicator (8A\_V) will go out.

- 2 Carefully remove the misfed paper. Turn the roller rotating knob in the direction of the arrow to assist in removing it.



Be careful not to tear the misfed paper during removal.



**Warning** The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.



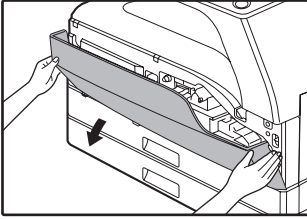
**Caution** Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.



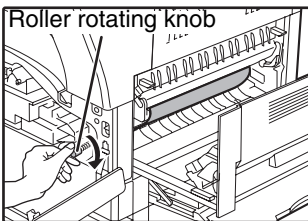
- When closing the front cover, gently hold both ends.
- When closing the side cover, press on the handle.
- If the misfeed indicator (8A\_V) does not stop blinking, check for torn pieces of paper in the machine.

## B. Misfeed in the fusing area

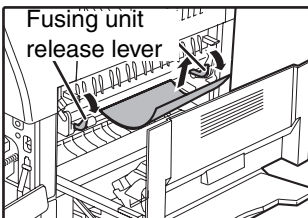
- 1 Push gently on both ends of the front cover and open it.



- 2 Turn the roller rotating knob in the direction of the arrow.



- 3 Carefully remove the misfed paper. Lower the fusing unit release levers to allow easier removal.



Be careful not to tear the misfed paper during removal.

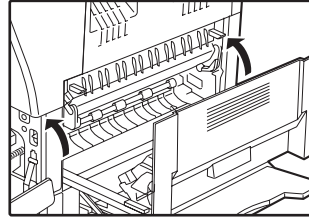


**Warning** The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.

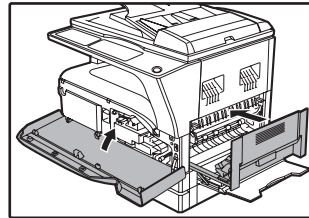


- Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
- Be careful about unfixed toner on the misfed paper not to soil your hands or clothes.

- 4 Lift the fusing unit release levers, to return them to their operating positions.



- 5 Close the front cover and side cover.



The misfeed indicator (8Λ<sub>V</sub>) will go out.

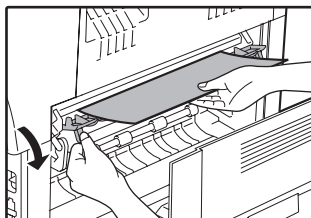


- When closing the front cover, gently hold both ends.
- When closing the side cover, press on the handle.
- If the misfeed indicator (8Λ<sub>V</sub>) does not stop blinking, check for torn pieces of paper in the machine.



## C. Misfeed in the transport area

- 1 Open the fusing paper guide by pressing down the green-labeled projection on the guide and remove the misfed paper.

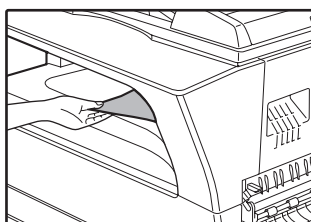


Be careful not to tear the misfed paper during removal.



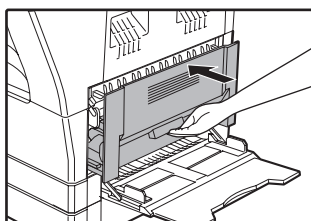
The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.

- 2 If the misfed paper cannot be removed by the previous step but is visible in the paper output area, remove the paper by pulling it into the paper output area.



Be careful not to tear the misfed paper during removal.

- 3 Close the side cover.



The misfeed indicator (8 $\sqrt{r}$ ) will go out.



- When closing the side cover, press on the handle.
- If the paper was torn, make sure that no torn pieces remain in the machine.
- If the misfeed indicator (8 $\sqrt{r}$ ) does not stop blinking, check for torn pieces of paper in the machine.

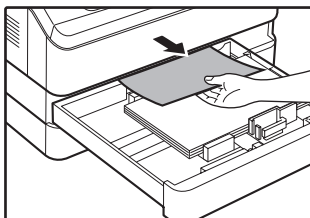


# MISFEED IN THE UPPER PAPER TRAY

**Note**

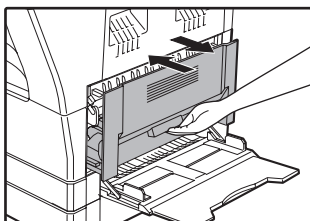
Make sure that there is no misfed paper in the tray before pulling it out. [\(p.52\)](#)

## 1 Lift and pull out the upper paper tray and remove the misfed paper.



Be careful not to tear the misfed paper during removal.

## 2 Open and close the side cover.

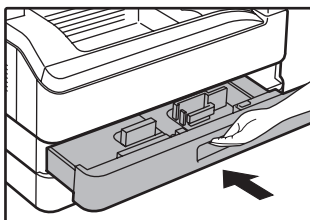


The misfeed indicator (8Λ<sub>r</sub>) will go out.

**Note**

- When closing the side cover, press on the handle.
- If the misfeed indicator (8Λ<sub>r</sub>) does not stop blinking, check for torn pieces of paper in the machine.

## 3 Close the upper paper tray.



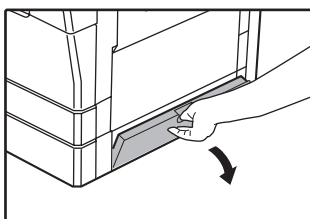
Push the upper paper tray in completely.

## MISFEED IN THE LOWER PAPER TRAY



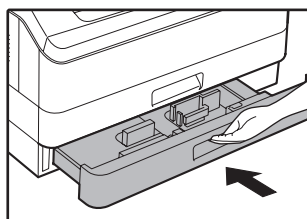
- Make sure that there is no misfed paper in the tray before pulling it out. (p.52)
- Use the following procedure to remove misfeeds that occur in the 250-sheet paper feed unit/2 x 250-sheet paper feed unit.

### 1 Open the lower side cover.

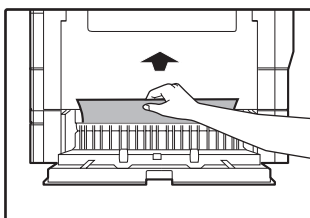


Grasp the handle to open the lower side cover.

### 5 Close the lower paper tray.

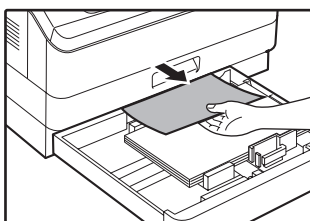


### 2 Remove the misfed paper.



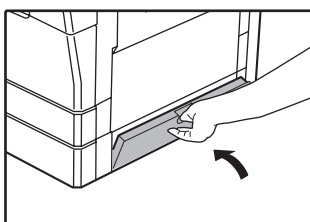
Be careful not to tear the misfed paper during removal.

### 3 If the misfed paper is not seen in step 2, lift and pull out the lower paper tray and remove the misfed paper.



Be careful not to tear the misfed paper during removal.

### 4 Close the lower side cover.





The misfeed indicator (8√) will go out.




If the misfeed indicator (8√) does not stop blinking, check for torn pieces of paper in the machine.

# REPLACING THE TONER CARTRIDGE

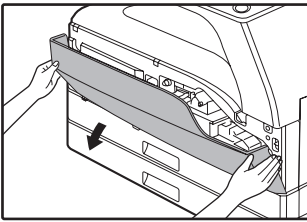
When the toner cartridge replacement required indicator (  ) lights up, the toner cartridge will need replacement soon. Obtain a new cartridge. When the toner cartridge replacement required indicator (  ) blinks, the toner cartridge must be replaced before copying can be resumed.

Replace the toner cartridge by following the procedure below.

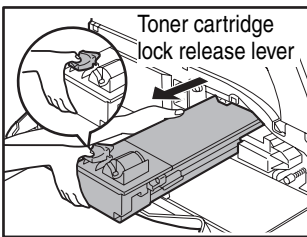


When the toner cartridge replacement indicator (  ) lights up, little toner remains and thus copies may be faint.

## 1 Push on both ends of the front cover and open it.



## 2 Pull the toner cartridge out while pressing the lock release lever.

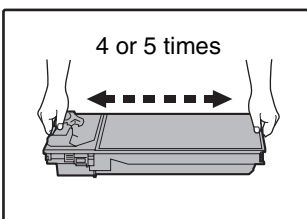


When pulling out the toner cartridge, place your other hand on the indentation of the cartridge.



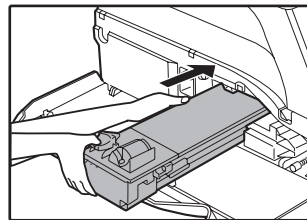
**Caution** After removing the toner cartridge, do not shake it or tap on it. Doing so may cause toner to leak from the cartridge. Put the old cartridge immediately in the bag contained in the box of the new cartridge. Dispose of the old toner cartridge in accordance with local regulations.

## 3 Remove the new toner cartridge from the bag. Grasp the cartridge on both sides and shake it horizontally four or five times.



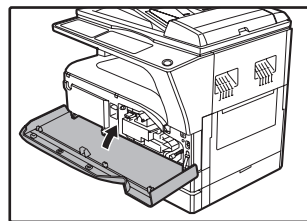
**Caution** Grasp the grip when holding the cartridge.


## 4 Insert the toner cartridge along the guides until it locks in place while pushing the lock release lever.




If there is any dirt or dust on the toner cartridge, remove it before installing the cartridge.

## 5 Close the front cover.



The toner cartridge replacement required indicator (  ) will go out.



- Even after a new toner cartridge is installed, the toner cartridge replacement required indicator (  ) may still light up, indicating that copying cannot be resumed (toner is not fed sufficiently). In this case, open and close the front cover. The machine will feed toner again for about two minutes and then copying can be resumed.
- Before closing the front cover, make sure that the toner cartridge is correctly installed.
- When closing the front cover, gently hold both ends.

This chapter explains how to keep the machine operating smoothly, including viewing copy count, the toner level indicator, and cleaning the machine.

## CHECKING THE TOTAL OUTPUT COUNT AND TONER LEVEL

### CHECKING THE TOTAL OUTPUT COUNT

When "Auditing mode" is "ON":

From the "- - -" display, you can check the total output count and total copy count as explained below.

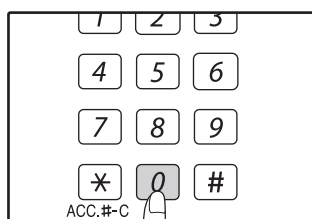
When "Auditing mode" is "OFF":

From the " 0" display, you can check the total output count and total copy count as explained below.

The total output count is all pages (for both printing and copying) printed by the machine and the total output count can be counted up to 999,999.

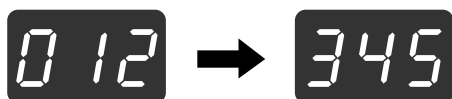
#### [Total output count]

Hold down the [0] key.



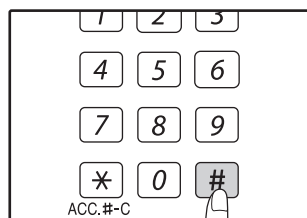
The total output count appears sequentially in two parts while you hold down the [0] key.

**Example:** Total number of pages output is 12,345.



#### [Total copy count]

Hold down the ([#]) key.



The total copy count appears in the display while you hold down the key. The count display and counting method are the same as for the total output count.



The total number of pages printed in printer mode can be calculated by subtracting the total copy count from the total output count.

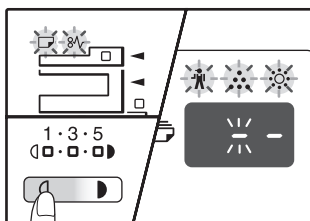


- Each A3 size page is counted as two pages.
- During a copy run, pressing the [0] key shows the number of completed copy pages, not the total output count.

# CHECKING THE TONER LEVEL

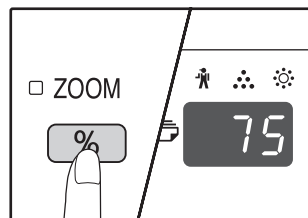
The toner level is indicated by a 6-level display. Use it as a guideline for replacing the toner cartridge.

- 1 Hold down the [Light] key (  ) until the alarm indicators ( , , , , ,  ) blink.**









The display will show  
"- -".

- 2 Hold down the [Copy ratio display] key (  ) for more than 5 seconds.**



The approximate quantity of toner remaining will be indicated in the display as a percentage. ("100", "75", "50", "25", "10" is displayed.) When the percentage is less than 10%, "LO" will be displayed.

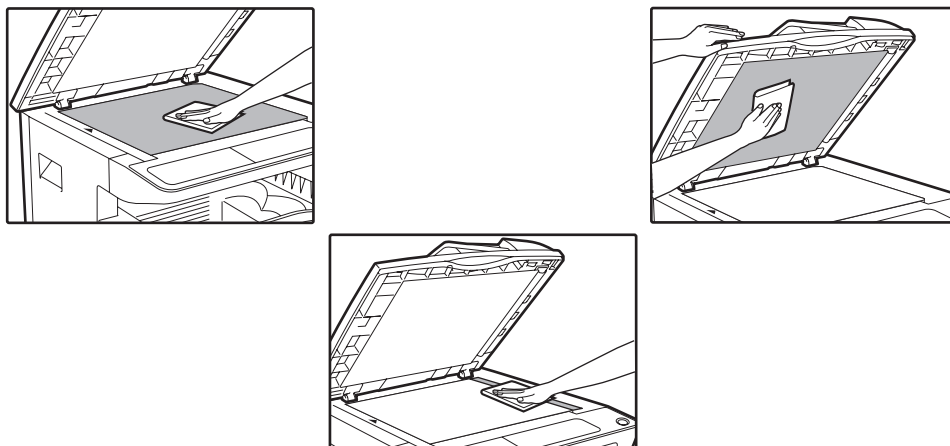
- 3 Press the [Light] key (  ) to return to the normal display.**

The alarm indicators ( , , , , ,  ) go off. The display returns to the number of copies display.

# ROUTINE MAINTENANCE

## CLEANING THE DOCUMENT GLASS AND SPF/DOCUMENT COVER

If the document glass, underside of the document cover/SPF, or the scanner for originals coming from the SPF (the long narrow glass surface on the right side of the document glass) become dirty, the dirt may appear on copies. Always keep these parts clean.



Stains or dirt on the document glass/SPF will also be copied. Wipe the document glass, underside of the document cover/SPF and the scanning window on the document glass with a soft, clean cloth.

If necessary, dampen the cloth with water. Do not use thinner, benzene, or similar volatile cleaning agents.

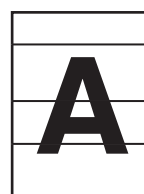


**Do not spray flammable cleaner gas.** Gas from the spray may come in contact with the internal electrical components or high-temperature parts of the fusing unit, creating a risk of fire or electrical shock.

## CLEANING THE ORIGINAL SCANNING GLASS (ONLY WHEN AN SPF IS INSTALLED)

If white or black lines appear in copies made with using the SPF, use the provided glass cleaner to clean the original scanning glass. (If white or black lines appear in copies or printed pages when the SPF is not used, see ["CLEANING THE TRANSFER CHARGER" \(p.61\)](#).)

Example of dirty print image

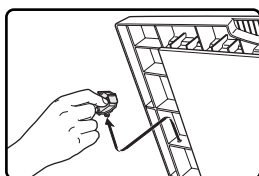


Black lines

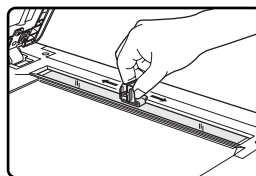


White lines

- 1** Open the SPF and take out the glass cleaner.



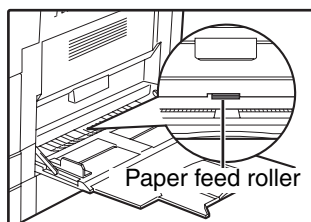
- 2** Clean the original scanning glass with the glass cleaner.



- 3** Return the glass cleaner to its original position.

## CLEANING THE BYPASS TRAY PAPER FEED ROLLER

If misfeeds occur frequently when feeding envelopes, thick paper, etc. through the bypass tray, wipe the paper feed roller at the feed slot of the bypass tray with a soft, clean cloth dampened with alcohol or water.

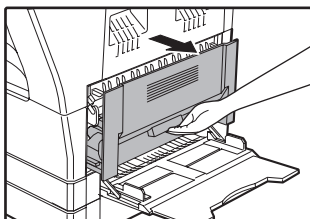


## CLEANING THE TRANSFER CHARGER

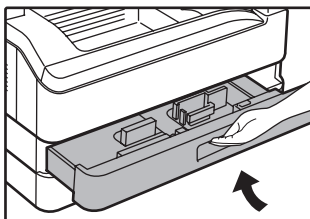
If copies start becoming streaky or blotchy, the transfer charger may be dirty. Clean the charger using the following procedure.

**1** Turn the power switch off.

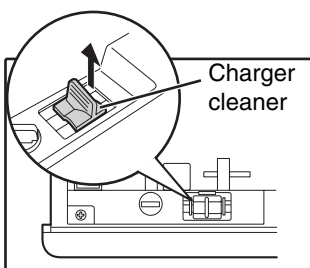
**2** Open the bypass tray and the side cover.



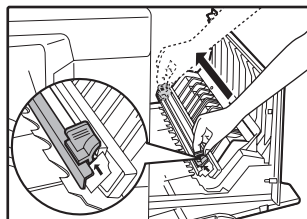
**3** Lift and pull out the upper paper tray.



**4** Take the charger cleaner out by holding the tab.



**5** Set the charger cleaner onto the transfer charger and gently slide the cleaner in the direction indicated by the arrow two or three times.



If the white sheet metal is smudged with toner, wipe it with a soft, clean cloth.



**Note** Slide the charger cleaner from one end to the other end along the groove of the transfer charger. If the cleaner is stopped on the way, smudges on copies may occur.

**6** Return the charger cleaner to its original position. Close the upper paper tray. Close the side cover by pressing the handle on the cover.

**7** Turn the power switch on.

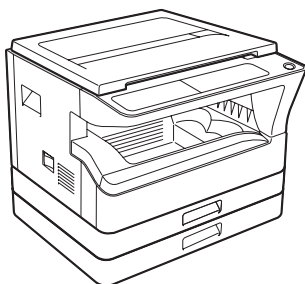
Optional equipment and supplies are explained in this chapter. To purchase optional equipment and supplies, contact your authorised service representative.

## PERIPHERAL DEVICES

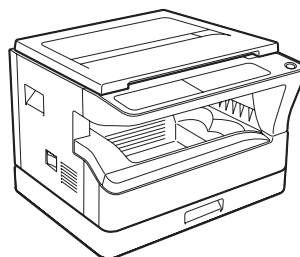


As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

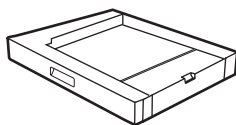
AR-5520S



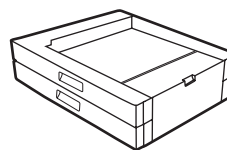
AR-5516S



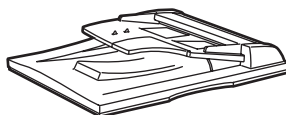
Options that can be installed on both models



250-sheet paper feed unit  
(AR-D34)



2 x 250-sheet paper feed unit  
(AR-D35)



Single pass feeder  
(AR-SP10)



You cannot attach two units of 250-sheet paper feed unit to the machine. When you need to attach two or more paper trays, be sure to use the 2 x 250-sheet paper feed unit, and then 250-sheet paper feed unit if necessary.



# SINGLE PASS FEEDER

For the names of the parts of the SPF, see "PART NAMES AND FUNCTIONS" (p.4).

## Specifications

AR-SP10 (Single pass feeder)		
Acceptable original	Weight	56 g/m <sup>2</sup> to 90 g/m <sup>2</sup>
	Size	A5 to A3
	Capacity	Up to 40 sheets (Thickness 4 mm and below) For B4 and larger sizes, up to 30 sheets
Detectable original sizes*		A5, B5, B5R, A4, A4R, B4, A3
Weight		5.0 kg
Dimensions		583 mm (W) x 435 mm (D) x 133 mm (H)

# 250-SHEET PAPER FEED UNIT/2 X 250-SHEET PAPER FEED UNIT

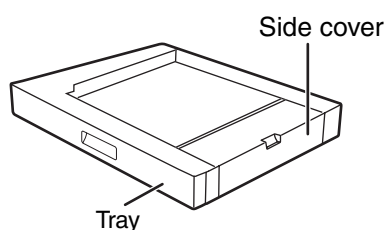
These paper feed units provide the convenience of increased paper capacity for the copier and a greater choice of paper sizes readily available for copying.

The AR-D34 contains one 250-sheet paper tray and the AR-D35 contains two 250-sheet paper trays.

## Part names

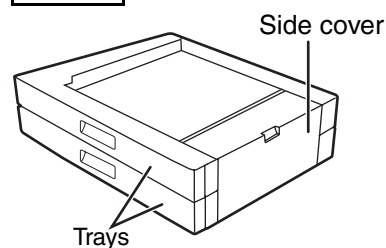
250-sheet paper feed unit

AR-D34



2 x 250-sheet paper feed unit

AR-D35



## Specifications

	AR-D34	AR-D35
Paper size	B5 to A3	
Paper capacity	One tray with capacity for 250 sheets of 90 g/m <sup>2</sup> bond paper	Two trays with capacity for 250 sheets of 90 g/m <sup>2</sup> bond paper
Paper weight	56 g/m <sup>2</sup> to 90 g/m <sup>2</sup>	
Power supply	Drawn from the machine	
Dimensions	590 mm (W) x 476.5 mm (D) x 88 mm (H)	590 mm (W) x 476.5 mm (D) x 174 mm (H)
Weight	5.0 kg	10.0 kg

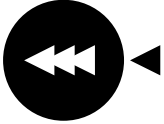
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# STORAGE OF SUPPLIES

Standard supplies for this product that are to be replaced by the user are paper and toner cartridge.

**SHARP®**



For best copying results, be sure to use only SHARP products.  
Only genuine SHARP consumables carry the Genuine Supplies label.

**GENUINE SUPPLIES**

## PROPER STORAGE

- **Store the supplies in a location that is:**

- clean and dry,
  - at a stable temperature,
  - not exposed to direct sunlight.

- **Store paper in the wrapper and lying flat.**

- Paper stored out of the wrapper or in packages standing on end may curl or get damp, resulting in paper misfeeds.

### **Supply of spare parts and consumables**

The supply of spare parts for repair of the machine is guaranteed for at least 7 years following the termination of production. Spare parts are those parts of the machine which may break down within the scope of the ordinary use of the product, whereas those parts which normally exceed the life of the product are not to be considered as spare parts. Consumables too, are available for 7 years following the termination of production.

# OPERATION GUIDE

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