

MODEL: AR-5516N

AR-5520N

DIGITAL MULTIFUNCTIONAL SYSTEM

OPERATION GUIDE





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ROUTINE MAINTENANCE

INTRODUCTION

This manual describes the copier, printer, and scanner functions of the AR-5516N/AR-5520N digital multifunctional system. And also explains how to configure network settings to enable the machine to be used as a network printer/scanner.



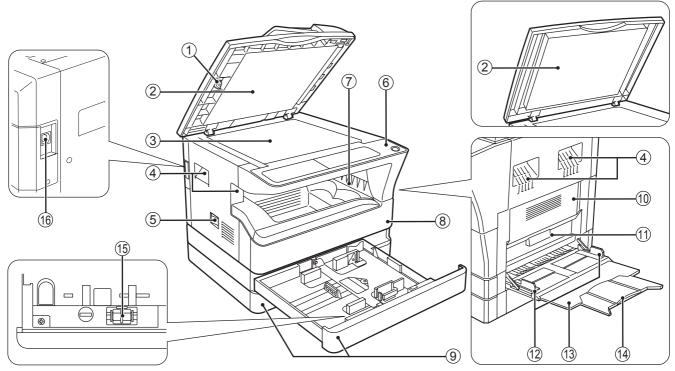
- Where "AR-XXXX" appears in this manual, please substitute the name of your model for "XXXX". For the name of your model, see "DIFFERENCES BETWEEN MODELS" in the Start Guide.
- The screen images and procedures that appear in this manual are mainly for Windows Vista. With other versions of Windows, some 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.

Chapter 1 BEFORE USING THE MACHINE

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

PART NAMES AND FUNCTIONS



- ① Glass cleaner (when the RSPF is installed)
 Use to clean the original scanning glass. (p.101)
- Document feeder cover (when the RSPF 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, p.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.93, p.94, p.98)

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.92, p.93)

11 Side cover handle

Pull to open the side cover. (p.92)

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.26)

(4) Bypass tray extension

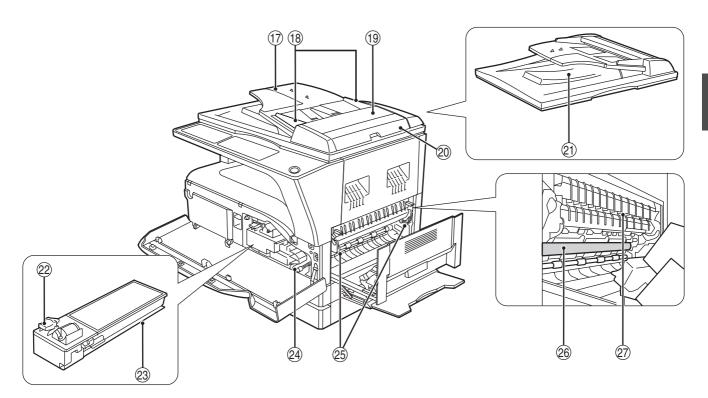
Pull out when feeding large paper such as B4 and A3. (p.11)

(15) Charger cleaner

Use to clean the transfer charger. (p.102)

10Base-T/100Base-TX LAN connector

Connect to your network to use the printer and scanner functions. (Start Guide)



① Document feeder tray (when the RSPF is installed)

Place the original(s) that you wish to scan face up here. Holds up to 40 originals. (p.17)

- ® Original guides (when the RSPF is installed)
 Adjust to the size of the originals. (p.16)
- (9) Feeding roller cover (when the RSPF is installed)

Open to remove misfed originals. (p.91)

- ② Right side cover (when the RSPF is installed)
 Open to remove misfed originals. (p.91)
- ② Exit area (when the RSPF is installed)
 Originals exit the machine here after copying.
- Toner cartridge lock release lever
 To replace the toner cartridge, pull out the toner cartridge while pushing on this lever. (p.98)
- Toner cartridge Contains toner. (p.98)
- Roller rotating knob

Turn to remove misfed paper. (p.93, p.94)

(25) Fusing unit release levers

To remove a paper misfeed from the fusing unit, push down on these levers and remove the paper. (p.94)



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.

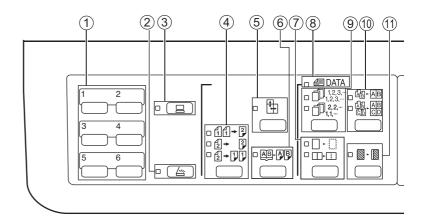
Fusing unit paper guide

Open to remove misfed paper. (p.95)



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

OPERATION PANEL



- **1 SCAN MENU key**
 - Use to scan by means of the provided Button Manager software. (p.49)
- ② SCAN key (🕍) / indicator

Press to switch the machine to scanner mode and scan by means of the provided Button Manager software. (p.47) The indicator blinks during scanning and transmission of the scanned data.

- ③ 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.35)
- ④ ORIGINAL TO COPY key / indicators
 - Press to select one-sided and two-sided copy modes. (p.24)
 - Two-sided copies from one-sided originals.
 - Two-sided copies from two-sided originals.

 The property of th
- ⑤ XY-ZOOM key (∰) / indicator
 - Press to change the horizontal and vertical copy ratios independently. (p.21)
- ⑥ **DUAL PAGE COPY key (風里 月厚) / indicator**Use to make individual copies of the two pages of an open book or other two-page original. (p.27)
- ⑦ ERASE key (□-□/□-□) / indicators
 Press to select the "EDGE ERASE", "CENTRE ERASE" or "EDGE + CENTRE ERASE" mode. (p.34)
- ® ORIGINAL DATA indicator (DATA)
 Blinks when the memory becomes full of scanned original image data. (p.30, p.32)

- SORT/GROUP key (☐,123,-/☐,1,2-) / indicators
 Press to select the "SORT" or "GROUP" mode. (p.29)
- ① 2 IN 1 / 4 IN 1 key (個-區/圖-區) / indicators
 Press to select the "2 IN 1" or "4 IN 1" mode. (p.31)
- MARGIN SHIFT key (□-□) / indicator Shifts text or image on the copy to leave a binding margin on the edge of the copy. (p.33)
- ② AUTO/TEXT/PHOTO key (AUTO / (1···) / (1··) /

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

- (3) ORIGINAL key (CRIGINAL) / ORIGINAL SIZE indicators
 - Use to enter the original size. (p.12) The selected original size will light up.
- **14 PAPER SIZE indicators**

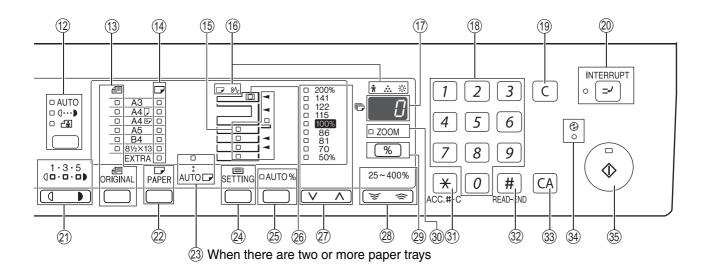
Light up to show the selected copy paper size. (p.12)

(5) Paper feed location / misfeed location indicators

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

The general location of misfed paper is shown by a blinking red indicator (◀). (p.91)

- **16** Alarm indicators
 - [🖟] Maintenance indicator (p.90)
 - [...] Toner cartridge replacement required indicator (p.90)
 - [🔅] Developer replacement required indicator (p.90)
 - [Paper required indicator (p.90)
 - [8√] Misfeed indicator (p.90)



① 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.

18 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.99)

(9 CLEAR key (C)

Clears the copy quantity display or terminates a copy run.

- INTERRUPT key () / indicator Interrupts a copy run. (p.28)
- ② Light and Dark keys (, ,) / indicators
 Use to adjust the TEXT or PHOTO exposure level.
 (p.18)
- ② PAPER SELECT key (PAPER)

Use to set the paper size in the paper trays. (p.12, p.18)

- AUTO PAPER SELECT indicator (AUTO □)
 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)
- ☑ TRAY SETTING key (SETTING)

 Use to manually select a paper tray. (p.12)
- AUTO IMAGE key (AUTO %) / indicator
 Press for automatic copy ratio selection. (p.19)
- RSPF indicator (when the RSPF is installed) Lights up when originals are set in the document feeder tray. (p.16)

② PRESET RATIO selector keys (√,)/ indicators

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

Zoom keys (♥ , ♠)

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

② Copy ratio display key (%)

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

30 ZOOM indicator

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

- 3 Audit clear key (*) (ACC.#-C) Closes an open account. (p.76)
- 32 READ-END key (#)

Use to check the total number of copies made. (p.99)

When copying in sort mode and 2 in 1/4 in 1 from the document glass, press this key when you have finished scanning the original pages and are ready to start copying. (p.30, p.31)

33 CLEAR ALL key (CA)

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

POWER SAVE indicator (②)

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

START key (☼) / indicator

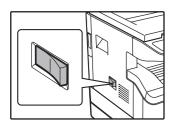
Press to make a copy (p.15). Also press to exit "Auto power shut-off" mode and to set a system setting. Copying is possible when the indicator is on.

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.

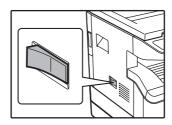


It will take about 45 seconds for the machine to warm up. While the machine is warming up, the POWER SAVE indicator (②) will blink. (The POWER SAVE indicator (②) will go off when the machine is ready to copy.)

However, you can make desired settings and press the [START] key $(\ensuremath{\widehat{\otimes}})$ 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 (②) 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 (CA) 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.69)
- 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.69)

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 (②) 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 (②) and ON LINE indicator go off. To resume normal operation, press the [START] key (③). Normal operation also resumes automatically when a print job is received. While in auto power shut-off mode, no keys (except the [START] key (③)) 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.69)

Initial settings

The machine assumes the initial settings when it is first turned on, when the [CLEAR ALL] key (CA) 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.71)

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*1 B5 A4 B4 A3	56 g/m ² to 90 g/m ² * ²	250 sheets (Load paper lower than the line on the tray)
Bypass tray	Standard paper Recycled paper	A6R to A3	56 g/m ² to 90 g/m ²	100 sheets *3
	Transparency film Labels			Load one sheet of paper each time on the bypass tray.
	Thick paper	A6R to A4	129 g/m ² to 200 g/m ²	Load one sheet of paper each time on the bypass tray.
			106 g/m ² to 128 g/m ²	You can load multiple sheets of paper on the bypass tray.
		A6R to A3	91 g/m ² to 105 g/m ²	You can load multiple sheets of paper on the bypass tray.
	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

^{*1} A5 can be used in the upper paper tray but cannot be used in other trays (including trays in optional paper feeding unit).

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.

^{*2} When making a large number of copies or prints using 90 g/m² 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.

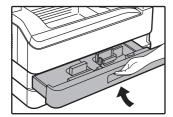
^{*3} The number of sheets of the paper which can be set changes with the weight of a paper.

LOADING PAPER

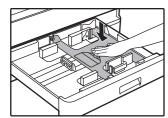
Make sure that the machine is not copying or printing, and then follow these steps to load paper.

Loading the paper tray

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



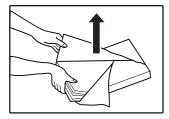
Push the pressure plate down until it locks in place.



Push the centre of the

pressure plate down until it locks into place.

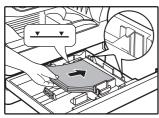
Load paper into the tray.



the paper and load it without fanning the paper. · Make sure the stack of

· Open the package of

paper is straight before loading it.

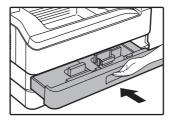


Make sure that the paper fits under the tabs on the right side of the tray.



- 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).

Gently push the paper tray into the

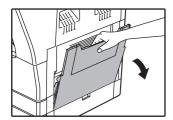


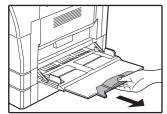


- If you loaded a different size of paper than was loaded previously in the tray, go to "CHANGING A TRAY'S PAPER SIZE SETTING" (p.12).
- When misfeed occurs, rotate the paper 180 degrees and reload it.
- Straighten curled paper before using it.

Loading the bypass tray

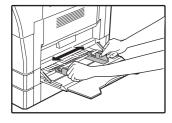
1 Unfold the bypass tray.



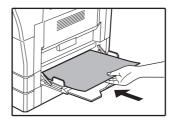


When feeding large paper such as B4 and A3, pull out the bypass tray extension.

2 Set the paper guides to the copy paper width.



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



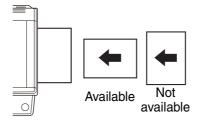
To prevent a misfeed, verify once more that the paper guides are adjusted to the width of the paper.



- If you loaded paper in the bypass tray, press the [PAPER SELECT] key (PAPER) to select the bypass tray. The bypass tray will not be selected automatically.
- If you load thick paper in the bypass tray, hold down the [TRAY SETTING] key (SETTING) for more than 5 seconds, use the [PAPER SELECT] key (SETTING) to select the bypass tray, and press the [AUTO IMAGE] key (AUTO %). When AUTO IMAGE indicator (AUTO %) lights up, the paper type is set to thick paper. The setting is cleared when "Auto clear" works or the [CLEAR ALL] key (CA) is pressed.

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.

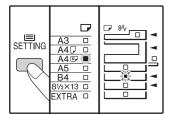
- Envelopes with metal tabs, clasps, strings, holes, or windows.
- Envelopes with rough fibres, carbon paper, or glossy surfaces.
- Envelopes with two or more flaps.
- Envelopes with tape, film, or paper attached to the flap.
- Envelopes with a fold in the flap.
- Envelopes with glue on the flap to be 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.

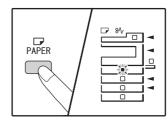


- The paper size setting cannot be changed when the machine has stopped temporarily due to running out of paper or a misfeed, or during interrupt copying.
- During printing (even in copy mode), the paper size setting cannot be changed.
- A5 size paper can only be selected in upper paper tray.
- Do not load paper that is a different size than the paper size setting. Copying will not be possible.
- Hold down the [TRAY SETTING] key (SETTING) for more than 5 seconds to set the selected paper size.



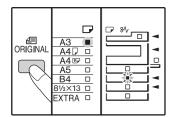
The currently selected paper feed location indicator will blink and the corresponding paper size (which is currently set) indicator will light steadily. All other indicators will go out.

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 (PAPER) is pressed, a paper tray will be indicated with a blinking paper feed location indicator.

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



The indicator of the selected paper size lights up.

Changing bypass tray's paper size setting

To change the bypass tray's paper size setting, hold down the [TRAY SETTING] key ($_{\text{SETTING}})$ for more than 5 seconds, use the [PAPER SELECT] key (PAPER) to select the bypass tray, and select the desired paper size.



If you load thick paper in the bypass tray, hold down the [TRAY SETTING] key (SETTING) for more than 5 seconds, use the [PAPER SELECT] key (PAPER) to select the bypass tray, and press the [AUTO IMAGE] key (AUTO %). When AUTO IMAGE indicator (AUTO %) lights up, the paper type is set to thick paper. The setting is cleared when "Auto clear" works or the [CLEAR ALL] key ([CA]) is pressed.

Customise the bypass tray setting

If the bypass tray is selected, you can also change the paper size setting with the following procedure.

• 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:

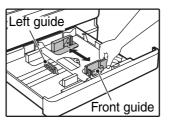
zoom indicator does not light up

When finished, press and hold [\(\infty\)].

Available value

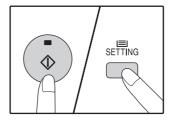
Direction	min. (mm)	max. (mm)
horizontal	100	297
vertical	139	420

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.

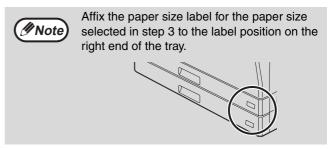


- The front guide is a slide-type guide. Grasp the locking knob on the guide and slide the guide to the indicator line of the paper to be loaded.
- The left guide is an insert-type guide. Remove it and then insert it at the indicator line of the paper to be loaded.
- If the bypass tray is selected, set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

Press the [START] key (③) and then the [TRAY SETTING] key (SETTING).



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



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.

OPERATION IN COPY, PRINTER, AND SCANNER MODES

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

	Modes	Copying	Printing	Scanning from a computer	Scanning from the machine
ICODV	Copy key input	Yes	Yes	Yes	No
	During copying		No	No	No
Printer	During printing	Yes*		Yes	Yes
	During scan preview/ during scanning	No	Yes		

^{*} During two-sided printing, the copy job begins after the print job finishes.

Chapter 2 COPY FUNCTIONS

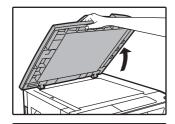
This chapter explains how to use the copy functions.

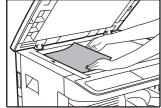
NORMAL COPYING

This section explains how to make a regular copy. If "Auditing mode" has been enabled (p.73), enter your 3-digit account number.

Copying from the document glass

1 Open the document cover/RSPF, and place the original.

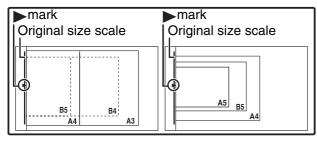




Place the original face down on the document glass.

[How to place the original]

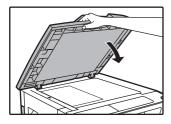
Align the edge of the original with the original size scale, to be centred with the centring mark (\triangleright).





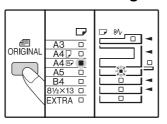
An original up to A3 can be placed on the document glass.

2 Close the document cover/RSPF.



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

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

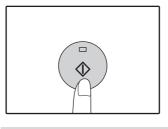


When the original size is selected, the tray with the same size of paper is automatically selected. (When there are two or more paper trays)

- 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 (PAPER) 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 (PAPER).
- 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.

Press the [START] key (③) to begin copying.



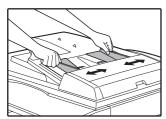
The copy is delivered to the paper output tray.



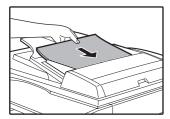
- The paper output tray can hold up to 250 sheets of paper.
- About one minute after copying ends, "Auto clear" activates and restores the copy settings to the initial settings. (p.8) The setting for "Auto clear time" can be changed in the system settings. (p.69)
- Press the [CLEAR] key (C) to stop copying in the middle of a run.

Copying from the RSPF

- Make sure that an original has not been left on the document glass.
 Close the RSPF.
- Adjust the original guides to the size of the original(s).



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



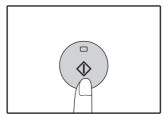
- Insert the original into the document feeder tray as far as it will go. When the original is set, the RSPF indicator will light up.
- The ORIGINAL SIZE indicator corresponding to the size of the original lights up.
- If the ORIGINAL SIZE indicator is blinking, rotate the original so that it is in the 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 (PAPER) 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 (ppr.).



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

4 Set the number of copies.

5 Press the [START] key (③) to begin copying.



The copy is delivered to the paper output tray. The default output mode for copying from the RSPF is sort mode (p.29).

The default output mode can be changed using "Sort auto select" in the system settings (p.71).



- 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.69)
- Press the [CLEAR] key (C) 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.

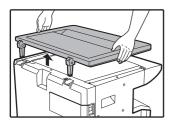
Auto paper select mode (when there are two or more paper trays)

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.70)

- 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 (PAPER). Auto paper select resumes operation when the [CLEAR ALL] key (CA) is pressed or when "Auto clear time" activates.

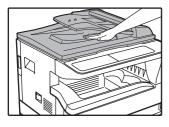
Removing the document cover

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 RSPF cannot be removed.



Copying books or originals with folds or creases

Press down on the document cover/RSPF while copying as shown. If the document cover/RSPF 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 RSPF

Originals that are A5 to A3 and 56 $\rm g/m^2$ to 90 $\rm g/m^2$ 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 original 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 RSPF

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.69), the RSPF indicator will blink for about 5 seconds after all originals are fed. If a new original is placed in the RSPF during this time, the original will be automatically fed in and copying will begin.

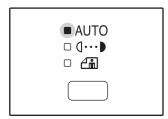
MAKING A COPY DARKER OR LIGHTER

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.56))

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.

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

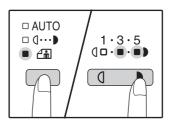


To adjust the exposure of a text original manually, press until the TEXT indicator ((...)) lights. To copy a photo, press until the PHOTO indicator ((...)) lights.



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

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.

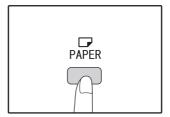


Exposure value guidelines

- 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 RSPF, 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 (pure paper) to select the desired tray.





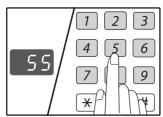
- If the desired PAPER SIZE indicator does not light up, change the paper in the tray to the desired paper size.
 (p.12)
- Automatic ratio selection (p.19) does not operate when the bypass tray or a tray set for a special paper size is selected.

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.70).

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 (C) 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 (③) 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.71)

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 (AUTO %). "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 RSPF.

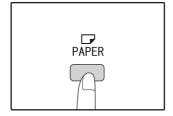
Original position	Selectable ratios
Document glass	25% – 400%
RSPF	50% – 200%

AUTOMATIC RATIO SELECTION

- 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)

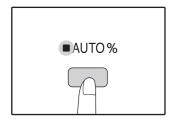


- Automatic ratio selection can be used when the original size is A5, B5, B5R, A4, A4R, B4, A3. It cannot be used for other sizes.
- After placing the original, be sure to close the document cover/RSPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.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

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

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

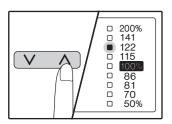
Copies can be reduced down to 25% or enlarged up to 400%. The [PRESET RATIO] selector keys (\checkmark , \land) can be pressed to quickly select a ratio from among eight preset ratios. In addition, the [Zoom] keys (\checkmark , \checkmark) can be pressed to select the ratio in increments of 1%.

- 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/RSPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

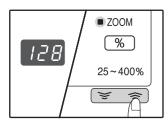
Use the [PRESET RATIO] selector keys (▽, △) and [Zoom] keys (▽, ⊸) to select the desired copy ratio.



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 v) 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 (③).

The copy will be delivered to the paper output tray.

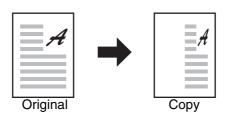


To return the ratio to 100%, press the [PRESET RATIO] selector key ($\boxed{\lor}$ or $\boxed{\land}$) until the 100% indicator lights up.

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.





- This feature cannot be used with the 2 IN 1 or 4 IN 1 feature. (p.31)
- 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.

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

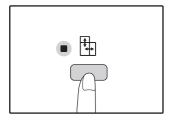
Original position	Selectable ratios
Document glass	25% – 400%
RSPF	50% – 200%

- 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/RSPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.

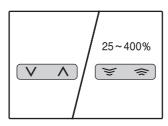
3 Press the [XY-ZOOM] key (19).



XY-ZOOM Indicator (1) lights up.

The current value for the vertical direction will appear in the display.

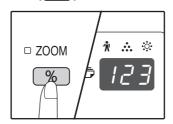
4 Use the [PRESET RATIO] selector keys (▽, △) and [Zoom] keys (ভ, ⓐ) to change the copy ratio in the vertical direction.



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

Press the [Copy ratio display] key (%).

display.



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.

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.

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

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.

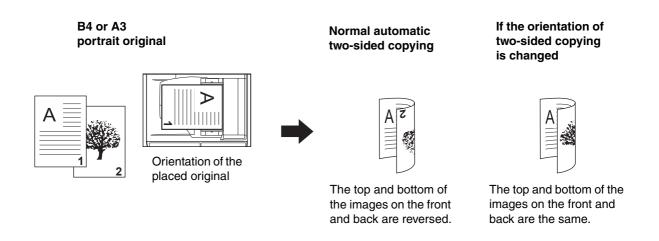
AUTOMATIC TWO-SIDED COPYING

Two originals placed on the document glass can be copied onto each side of a single sheet of paper. In addition, an RSPF can be used to copy two originals onto one sheet of paper, or one two-sided original onto two sheets of paper, or one two-sided original onto each side of one sheet of paper.

	Original $ o$ Paper			Usable paper
Document glass	One-sided original → Two sides			A5 to A3 • The bypass tray cannot be used.
RSPF	One-sided original → Two sides	Two-sided original → One side	Two-sided original → Two sides	 A5, B5, B5R, A4, A4R, B4, A3 Special paper cannot be used. The bypass tray can only be used when making one-sided copies from two-sided originals.



- To use paper in the bypass tray, make a two-sided copy as explained in "TWO-SIDED COPYING USING THE BYPASS TRAY" (p.26).
- When performing automatic two-sided copying of a one-sided original, or one-sided copying of a two-sided original, the image on the back can be rotated 180 degrees to reverse the top and bottom (Image rotation in duplex copying). To rotate the image 180 degrees, enable the setting as explained in "IMAGE ROTATION IN DUPLEX COPYING" (p.25) or in the system settings (p.69), and then follow the steps below. In particular, when a one-sided vertical (portrait) original is placed in a horizontal orientation (B4 or A3 size) for two-sided copying, the top and bottom of the images on the front and back of the paper will be reversed, and thus this function can be conveniently used to make the top and bottom of the images agree.



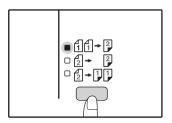
Using the document glass

Place the original that you wish to copy onto the front side of the paper on the document glass and close the document cover.



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

- 2 Select the original size. (p.15)
- Press the [ORIGINAL TO COPY] key, and make sure that the ऻऻ॓ → [] indicator is lit.

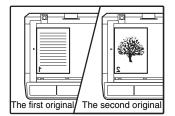


4. Set the number of copies and other settings, and then press the [START] key (③).

The display blinks, and the original is scanned into memory.



- If you need to clear the data scanned into memory, press the [CLEAR] key (C).
- If you wish to cancel two-sided copying and just make a copy of the first original, press the [READ-END] key (#).
- When the start indicator lights, remove the first original and then place the original that you wish to copy onto the back side of the paper on the document glass. Close the document cover.



Place the second original in the same orientation as the first original.

6 Press the [START] key (③).

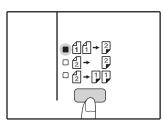
The copy will be delivered to the paper output tray.

Using the RSPF

1 Place originals in the RSPF. (p.16)

If you place an odd number of originals for one-sided to two-sided copying, the last page will be one-sided.

Press the [ORIGINAL TO COPY] key and select the two-sided copy mode that you wish to use.



- Two-sided copies from one-sided originals
- One-sided copies from two-sided originals
 1
- Set the number of copies and other copy settings, and press the [START] key (③).

The copy will be delivered to the paper output tray.

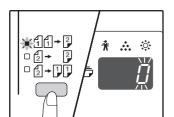


To cancel automatic two-sided copying, press the [CLEAR ALL] key ($\overline{\text{CA}}$).

IMAGE ROTATION IN DUPLEX COPYING

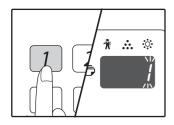
This function is used to invert the top and bottom of the image on the front side of the paper during two-sided copying.

1 Hold down the [ORIGINAL TO COPY] key until the ﴿ ﴿ أَمْ ﴾ indicator blinks.



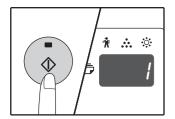
The currently set setting code blinks in the first digit of the number of copies display.

2 Press a numeric key to enter the setting code.



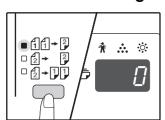
To enable the setting, press [1] key. To disable the setting, press [0] key. The factory default setting is "0". The entered number appears in the first digit of the number of copies display.

3 Press the [START] key (③).



The selected setting code stops blinking and lights steadily. This completes the setting.

4. Press the [ORIGINAL TO COPY] key to exit the setting.



The display returns to the normal number of copies display.

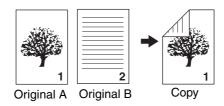


"Image rotation in duplex copying" can also be enabled or disabled in the system settings. (p.70)

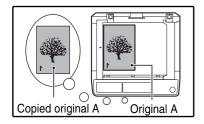
TWO-SIDED COPYING USING THE BYPASS TRAY

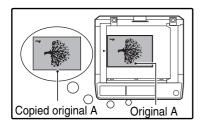
To perform manual two-sided copying, follow these steps.

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

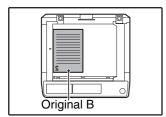


1 Copy original A.



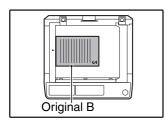


2 Place original B as shown below.



Vertically-oriented original:

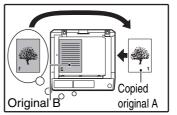
If the original is oriented vertically, place it in the same orientation as original A.



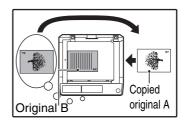
Horizontally-oriented original:

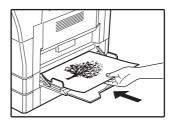
If the original is oriented horizontally, place it with the top and bottom and left and right sides reversed with respect to the placement of original A.

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.







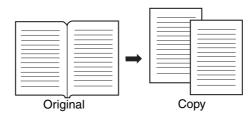
- Copies made on the back side of paper should always be made one sheet at a time using the bypass tray.
- Straighten curled or wavy paper before using it. Curled paper may cause misfeeds, creases, or a poor-quality image.
- After placing the original, be sure to close the document cover/RSPF. If left 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.

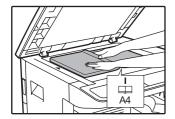
DUAL PAGE COPYING

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 rotation copy is enabled, A4R paper can also be used.
- Dual page copying can be enabled when Sort/Group copy (p.29).
- When used in combination with XY ZOOM copying, enlargement is not possible.
- Dual page copying cannot be used in combination with the following functions:
- Enlargement
- 2 IN 1 / 4 IN 1 copying
- Centre erase
- 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 RSPF.
- Place the original on the document glass, aligning the division between the pages with the size marker (A4). Close the document cover/RSPF.

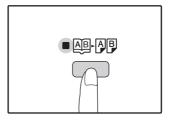


Copying will begin from the page to the right of the size marker.



- 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/RSPF. If left open, parts outside of the original will be copied black, causing excessive use of toner.
- 2 Set the original size to A3.

Press the [DUAL PAGE COPY] key (風丹) and make sure that the DUAL PAGE COPY indicator (風丹) is lit.



- 4. Make sure that a paper tray with A4 size paper is selected.
- Set the number of copies and other copy settings, and press the [START] key (③).

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

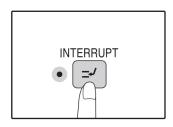
(Interrupt Copying)

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 sort/group copying, 2 IN 1 / 4 IN 1 copying, or two-sided copying is being performed. System settings and scanning function are also not available when interrupt copying.

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.

Note

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.70)

- Remove the previous original(s) and place the original(s) of the interrupt copy job.
- Set the number of copies and other copy settings and then press the [START] key (③).

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.

Replace the previous original(s) and press the [START] key (③).

The interrupted copy run will resume.

CONVENIENT COPY FUNCTIONS

This section explains major convenient copy functions.

ROTATING THE IMAGE 90 DEGREES (Rotation Copy)

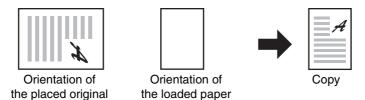
When "Auto paper select mode" or "automatic ratio selection" are in operation and the original is placed in a different orientation (vertical or horizontal) than the paper, the original image will be automatically rotated 90 degrees to enable correct copying onto the paper.

This function is convenient for copying B4 or A3 originals, which can only be placed horizontally, onto paper that is loaded vertically.

The rotation copy function is initially enabled. It can be disabled in the system settings. (p.70)



- Rotation copy will not operate when a copy is enlarged to a paper size greater than A4. In this case, place the original in the same orientation as the paper.
- When 2 IN 1 / 4 IN 1 copy is used (p.31), rotation copy will operate even if disabled in the system settings.

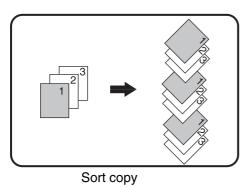


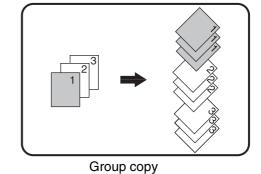
SORT COPY/GROUP COPY

- Copies of multiple original pages can be sorted into sets. (Sort copy)
- Copies of multiple original pages can be grouped by page. (Group copy)



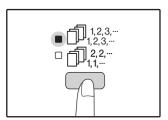
The machine can scan standard originals (A4) with approximately 160 pages, however, the number will vary for photos and other types of originals. Less pages can be scanned for interrupt copying.





Using the document glass

- 1 Place the first original. (p.15)
- 2 Select the original size. (p.15)



The modes are selected in the order "SORT" ($\bigcirc_{123,-}^{123,-}$), "GROUP" (\bigcirc_{12}^{122}), "Off".

4. Set the number of copies and other settings, and then press the [START] key (③).

The ORIGINAL DATA indicator (DATA) blinks, and the original is scanned into memory.

When the start indicator lights, replace the original with the next original, and then press the [START] key (③).

Repeat step 5 until all originals have been scanned into memory.



To clear the data in memory, press the [CLEAR] key (C).

When all originals have been scanned, and then press the [READ-END] key (#).

The copies are delivered to the paper output tray.



- To cancel the Sort/Group copy job, press the [CLEAR] key (C).

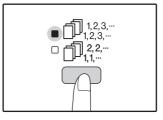
Using the RSPF

1 Place the originals. (p.16)

Sort mode is normally the default output mode, and thus the RSPF and SORT indicators light up.



- If "Sort auto select" has been set to "1: OFF" in the system settings, follow the steps below to select sort mode.
- "Sort auto select" can also be used to change the default output mode (p.71).
- 2 Press the [SORT/GROUP] key (() (123-/ ()) to select the desired mode.



The modes are selected in the order "SORT"($\square_{1,2,3,-}^{1,2,3,-}$), "GROUP" ($\square_{1,1,-}^{2,2,-}$), "Off".

Set the number of copies and other settings, and then press the [START] key (③).

The copies are delivered to the paper output tray.



- To cancel the Sort/Group copy job, press the [CLEAR] key (C).
- To cancel Sort or Group mode, press the [SORT/GROUP] key (☐☐123.-/☐12

If the memory becomes full

- If the memory becomes full while scanning the originals, the ORIGINAL DATA indicator (DATA) will blink, "FUL" will appear in the display, and the machine will stop copying.
- To copy the originals that have been scanned up to that point, press the [START] key (③).
- To clear the data that has been scanned into memory, press the [CLEAR ALL] key (CA) or the [CLEAR] key (C).

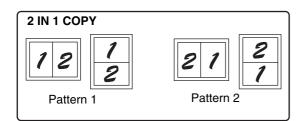
If the paper output tray becomes full

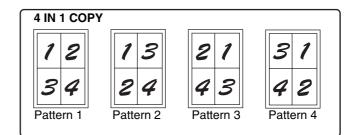
When the maximum number of pages (about 250 pages) that can be held in the paper output tray are output, copying will temporarily stop. When this happens, promptly remove the copies and press the [START] key (③) to resume copying.

COPYING MULTIPLE ORIGINALS ONTO A SINGLE SHEET OF PAPER (2 IN 1 / 4 IN 1 Copy)

Multiple originals can be copied onto a single sheet of paper in a selected layout pattern.

This function is convenient for compiling multi-page reference materials into a compact format, or for providing an overview of all pages of a document on a single page.







- First select the layout pattern as explained in "Setting the layout pattern" (p.32), and "Border line for 2 IN 1 / 4 IN 1"(solid line or broken line) in the system settings (p.69). When finished, follow the steps below.
- An appropriate ratio setting will be automatically selected based on the size of the originals, the size of the
 paper, and the selected number of originals. When using the document glass, reduction is possible to 25%.
 When using the RSPF, reduction is possible to 50%. Certain combinations of original size, paper size, and
 number of images may result in images being cut off.
- Even if "Rotation copy" is disabled in the system settings, the original images may be rotated if necessary depending on their orientation and the orientation of the paper.
- 2 IN 1 / 4 IN 1 copy cannot be used in combination with dual page copying (p.27), XY Zoom (p.21), margin shift (p.33), or erase copy. (p.34)

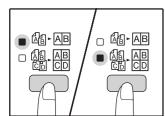
Using the document glass

- 1 Place the first original. (p.15)
- 2 Select the original size. (p.15)



If the original size was not selected, 2 IN 1 / 4 IN 1 copy cannot be used.

Press the [2 IN 1 / 4 IN 1] key
((41-AB) / (41-AB) to select the desired mode.



The mode is selected in the order "2 IN 1" ((AB-AB), "4 IN 1" ((AB-AB), "Off".

4 Set the number of copies and other settings, and then press the [START] key (③).

The ORIGINAL DATA indicator (DATA) blinks, and the original is scanned into memory.

When the start indicator lights, replace the original with the next original, and then press the [START] key (③).

Repeat step 5 until all originals have been scanned into memory.

MNote

To clear the data in memory, press the [CLEAR] key (C).

When all originals have been scanned, press the [READ-END] key (#).

The copy is delivered to the paper output tray.



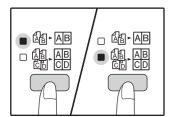
- To cancel 2 IN 1 / 4 IN 1 copying, press the [CLEAR] key (C).
- To cancel 2 IN 1 / 4 IN 1 copy mode, press the [2 IN 1 / 4 IN 1] key ((A) AB / (A)

Using 2 IN 1 / 4 IN 1 copy in combination with sort copy

Sort copy can be used if the original is placed on the document glass. Press the [SORT/GROUP] key ([],123-/],2-) to select sort copy and then perform steps 1 through 6. The 2 IN 1 / 4 IN 1 copies will be sorted.

Using the RSPF

- 1 Place the originals. (p.16)
- Press the [2 IN 1 / 4 IN 1] key (圖·圖/圖·圖) to select the mode.



The mode is selected in the order "2 IN 1" (過-屆), "4 IN 1" (過-溫), "Off".

3 Set the number of copies and other settings, and press the [START] key (③).

The copy is delivered to the paper output tray.



- To cancel 2 IN 1 / 4 IN 1 copying, press the [CLEAR] key (C).
- To cancel 2 IN 1 / 4 IN 1 copy mode, press the [2 IN 1 / 4 IN 1] key (AB-AB/AB-AB) repeatedly until the 2 IN 1 / 4 IN 1 indicators (AB-AB/AB-AB) are both off.

If the memory becomes full

- If the memory becomes full while scanning the originals, the ORIGINAL DATA indicator (@DATA) will blink, "FUL" will appear in the display, and the machine will stop copying.
- To copy the originals that have been scanned up to that point, press the [START] key (③).
- To clear the data that has been scanned into memory, press the [CLEAR ALL] key (CA) or the [CLEAR] key (C).

Setting the layout pattern

You can select the layout pattern for copying 2 original pages or 4 original pages onto one sheet of paper. The available layout patterns are shown on the first page of this section.

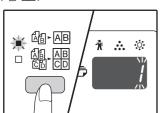


The layout pattern can also be selected in the system settings. (p.70)

1 Use the [2 IN 1 / 4 IN 1] key (@-@/@-@) to access the setting.

Selecting the layout for 2 IN 1 copy

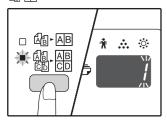
With the 2 IN 1 / 4 IN 1 indicators off, hold down the [2 IN 1 / 4 IN 1] key (\bigcirc - \bigcirc - \bigcirc) until the 2 IN 1 indicator (\bigcirc - \bigcirc - \bigcirc - \bigcirc) blinks.



The setting code of the currently selected pattern will blink in the first digit of the display.

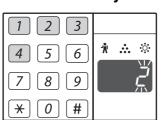
Selecting the layout for 4 IN 1 copy

With the 2 IN 1 indicator lit (個-區), hold down the [2 IN 1 / 4 IN 1] key (個-區/圖-區) until the 4 IN 1 indicator (劉-溫) blinks.



The setting code of the currently selected pattern will blink in the first digit of the display.

2 Select the setting code by pressing a numeric key.



To select "Pattern 2", press the [2] key.

Function	Setting code (p.70)
2 IN 1 layout	* 1 (Pattern 1) 2 (Pattern 2)
4 IN 1 layout	* 1 (Pattern 1) 2 (Pattern 2) 3 (Pattern 3) 4 (Pattern 4)

See page 31 for layout pattern.

The factory default settings are indicated by " * ".

The entered number blinks in the first digit of the display.

3 Press the [START] key (③).

The selected setting code stops blinking and lights steadily. This completes the setting.

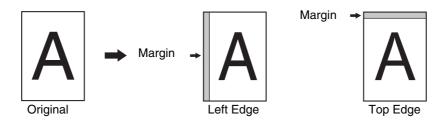
4 Press the [2 IN 1 / 4 IN 1] key (圖·圖/圖·圖) to exit the setting.

The display returns to the number of copies display.

CREATING MARGINS WHEN COPYING (Margin Shift)

The MARGIN SHIFT feature, in its initial setting, automatically shifts the text or image to increase the margin by approximately 10mm.

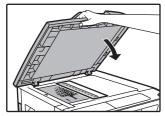
The location of the margin to be increased can be selected to be either at the left edge or the top of the page.





- This feature cannot be used with the 2 IN 1 / 4 IN 1 feature or rotation copy feature.
- You can also switch between the left margin and the top margin in the system settings. (p.70)
- The margin width can be changed in the system settings. (p.70)
- Note that a margin is created by shifting the image, and thus if the image is shifted too far, the edge of the image may be cut off.
- If the ORIGINAL SIZE indicator blinks when margin shift is selected, rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.

1 Place the original(s).



If you are using the document glass, place the side of the original where you wish to create the margin on the right.

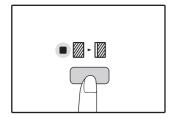


If you are using the RSPF, place the side of the original where you wish to create the margin on the left.

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

When using the RSPF, make sure that the same ORIGINAL SIZE indicator as your original size lights up.

3 Press the [MARGIN SHIFT] key (_□·□).



The MARGIN SHIFT indicator (m-m) lights up.

4 Set the number of copies and other settings, and then press the [START] key (③).

The copy is delivered to the paper output tray.



- To cancel margin shift, press the [MARGIN SHIFT] key () repeatedly until the MARGIN SHIFT indicator () is off.
- When margin shift is used in combination with automatic two-sided copying, a margin is also created automatically on the back side of the paper directly behind the margin on the front side.

Select the location of the margin

1 Hold down the [MARGIN SHIFT] key (□-□) until the MARGIN SHIFT indicator (□-□) blinks.

The currently selected setting code for the margin position blinks in the display.

1: Left edge 2: Top edge

2 Press the [1] key or the [2] key, and then press the [START] key (③).

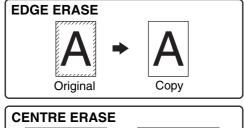
The selected setting code for the margin position lights.

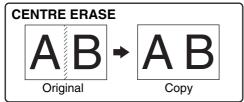
3 Press the [MARGIN SHIFT] key (m.).

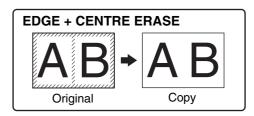
The MARGIN SHIFT indicator () stops blinking.

ERASING SHADOWS AROUND THE EDGES OF A COPY (Erase Copy)

- This feature is used to erase shadows that appear around the edges of copies of books and other thick originals.
 (EDGE ERASE)
- The feature can also erase the shadow that appears down the centre of books and other originals that open up. (CENTRE ERASE)
- The factory default setting for the width of the erasure is approximately 10 mm. The width can be changed in the system settings. (p.70)





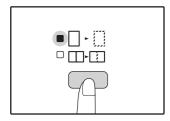




- Centre erase cannot be used in combination with dual page copy.
- Erase copy cannot be used in combination with 2 IN 1 / 4 IN 1 copy. (p.31)
- · Erase copy cannot be used when the paper is a special size or copying from the bypass tray.
- Note that if the width of the erasure is too large, the edge of the image may be partially erased.
- Place the original(s). (p.15)
- 2 If the original is placed on the document glass, select the original size. (p.15)

When using the RSPF, make sure that the same ORIGINAL SIZE indicator as your original size lights up.

Press the [ERASE] key (□-□/□-□) to select the desired erase mode.



To select the "EDGE + CENTRE ERASE" mode, press the [ERASE] key (□-□/□-□) until both the EDGE (□-□) and CENTRE indicators (□-□) light up.

Set the number of copies and other settings, and then press the [START] key (③).

The copy is delivered to the paper output tray.



- To cancel erase copy, press the [ERASE] key (□ · □/□ · □) repeatedly until the ERASE indicators (□ · □/□ · □) are both off.
- If the original size was not selected in step 2, erase copy cannot be used.

3 Chapter 3 PRINTER FUNCTIONS

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).



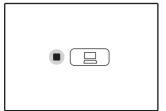
- Print jobs received while the machine is copying or scanning will be stored in memory. When the copy job is finished, the print jobs will begin printing.
- Printing is not possible when the front or side cover is opened for machine maintenance, or when a misfeed
 occurs or the machine runs out of paper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

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.37)
"SETTING ADVANCED PRINT FUNCTIONS" (p.38)

5 Click the "Print" button.

Printing begins.

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 (PAPER) 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 (C) or the [CLEAR ALL] key (CA).
- 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.71).

When "Use close paper size" is disabled

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

□ A3 □ □ A4 □ □ A4 □ □ A5 □ B4 □ □ B½×13 □ EXTRA □

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, scanner mode limitations, and print mode limitations in copy and scanner mode, see "OPERATION IN COPY, PRINTER, AND SCANNER 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.)

- 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.

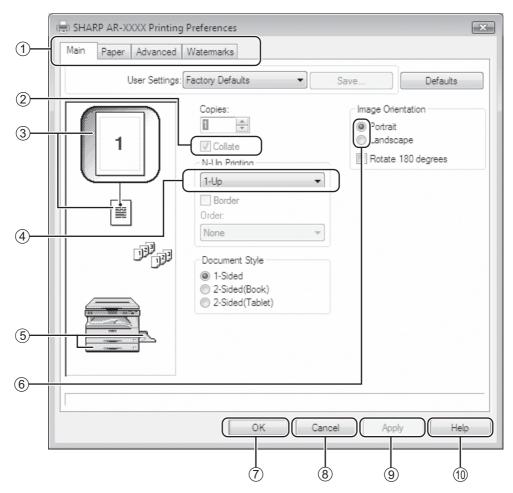
In Windows XP/2000, select "Properties" from the "File" menu.

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

The printer driver setup screen will appear.
"PRINTER DRIVER SETTING SCREEN" (p.37)

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.35).

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. This function can also be used in combination with two-sided printing for maximum conservation of 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)	1234	2143	1 3 2 4

N-Up (Pages per sheet)	Right, and Down	Down, and Right	Left, and Down	Down, and Left
4-Up (4 pages per sheet)	1 2 3 4	1324	2 1 4 3	3 1 4 2
6-Up (6 pages per sheet)	1 2 3 4 5 6	1 3 5 2 4 6	3 2 1 6 5 4	5 3 1 6 4 2

- Click the "Main" tab in the printer driver setup screen.
- 2 Select the number of pages per sheet.



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

3 Select the order of the pages.

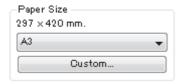


FITTING THE PRINTED IMAGE TO THE PAPER

(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.

- Click the "Paper" tab in the printer driver setup screen.
- 2 Select the original size (A3) of the print image in "Paper Size".

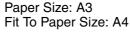


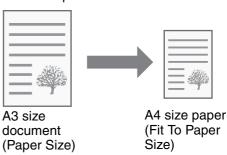
3 Check the "Fit To Paper Size" button.



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.

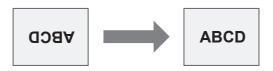




ROTATING THE PRINT IMAGE 180 DEGREES

(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).



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.



- 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.

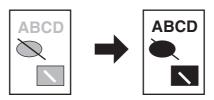


Directly enter a number or click the button to change the ratio in increments of 1%.

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.



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

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



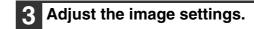
- "Text To Black" can be selected to print all text other than white text in black.
- "Vector To Black" can be selected to print all vector graphics other than white lines and areas in black.

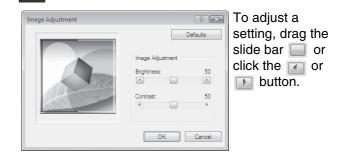
ADJUSTING THE BRIGHTNESS AND CONTRAST OF THE IMAGE (Image Adjustment)

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.

- Click the "Advanced" tab in the printer driver setup screen.
- 2 Click the "Image Adjustment" button.

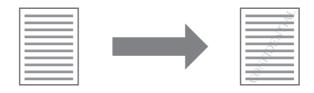






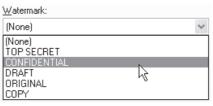
ADDING A WATERMARK TO PRINTED PAGES (Watermark)

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.

TWO-SIDED PRINTING

The machine can print on both sides of the paper. This function is useful for many purposes, and is particularly convenient when you want to create a simple pamphlet. Two-sided printing also helps conserve paper.



When using two-sided printing, select a source other than "Bypass Tray" for the "Paper Source" in the "Paper" tab.

Paper orientation	Printing result		
	2-Sided (Book)	2-Sided (Tablet)	
Vertical	2	2	
	2-Sided (Book)	2-Sided (Tablet)	
Horizontal	2 3	2	
	The pages are printed so that they can be bound at the side.	The pages are printed so that they can be bound at the top.	

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

2 Select "2-Sided(Book)" or "2-Sided(Tablet)".



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

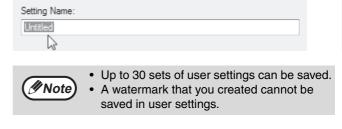
(User Settings)

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.35).

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).



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.

4

Chapter 4 SCANNER FUNCTIONS

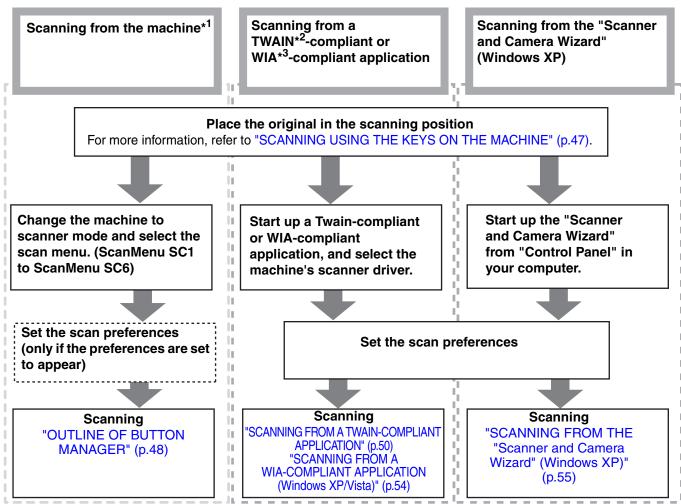
This chapter explains how to use the scanner functions.



- You must first connect to the machine using SC-Scan A to use the scanner functions. For details, see "CONNECTING TO AND DISCONNECTING FROM THE SCANNER FUNCTION USING SC-Scan A" (p.46).
- Scan jobs received while the machine is copying or printing will be stored in memory. When the copy job is finished, the scan jobs will begin.
- Scanning 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 RSPF, scanning will not be possible until the misfed original is removed and the RSPF is restored to a usable state.

SCANNING OVERVIEW

The flow chart shown below provides an overview of scanning.



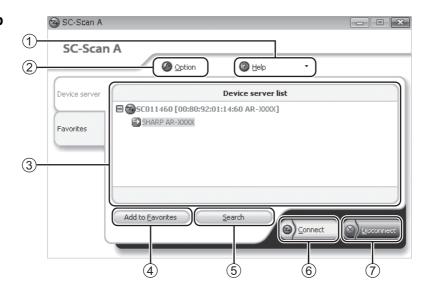
- *1 To scan using the machine's operation panel, you must first install Button Manager and establish the appropriate settings in the Control Panel. For details, see "SETTING UP BUTTON MANAGER" in the Start Guide.
- *2 TWAIN is an international interface standard for scanners and other image acquisition devices. By installing a TWAIN driver on your computer, you can scan and work with images using a variety of TWAIN-compliant applications.
- *3 WIA (Windows Imaging Acquisition) is a Windows function that allows a scanner, digital camera or other imaging device to communicate with an image processing application. The WIA driver for this machine can only be used in Windows XP/Vista.

OUTLINE OF SC-Scan A

SC-Scan A is a software utility that allows you to use the scanner function via a network. On the machine, a device server has been installed. SC-Scan A recognises the device server and establishes the connection to the device (the scanner function). For details on connecting to and disconnecting from the scanner function, see "CONNECTING TO AND DISCONNECTING FROM THE SCANNER FUNCTION USING SC-Scan A" (p.46). SC-Scan A is automatically installed when the scanner driver of the machine is installed. For the procedure to install

the scanner driver of the machine, see "INSTALLING THE SOFTWARE" in the Start Guide.

"Device server" tab



"Favorites" tab



1 "Help" button

Click this button to display the "Online help" menu and "About SC-Scan A". You can view the Help or version information of SC-Scan A from the menu.

2 "Option" button

Click this button to display the "Option" window. In the window, you can configure the settings for basic operation and screen display for SC-Scan A, and broadcast addresses.

③ "Device server list" window

This list shows the device server and the device (the scanner function) with icons. For details on icons, see the "Online help" of SC-scan A.

4 "Add to Favorites" button

Select the device (the scanner function) from the "Device server list" window and click the "Add to Favorites" button to register the scanner function to the "Favorites list" window. In the "Favorites list" window, you can configure advanced settings with the "Properties" button.

⑤ "Search" button

Click this button to search the machine if not listed in the "Device server list" window.

6 "Connect" button

Select the device (the scanner function) from the list and click the "Connect" button to connect to the scanner function.

[☼] "Disconnect" button

Select the device (the scanner function) from the list and click the "Disconnect" button to disconnect from the scanner function.

® "Favorites list" window

This list shows the device (the scanner function) which is added to the list with icons. For details on icons, see the "Online help" of SC-scan A.

"Properties" button

Select the device (the scanner function) from the "Favorites list" window and click the "Properties" button to display the properties window of the scanner function. In the window, you can configure advanced settings.

10 "Delete" button

Select the device (the scanner function) from the "Favorites list" window and click the "Delete" button to delete the machine from the "Favorites list" window.

CONNECTING TO AND DISCONNECTING FROM THE SCANNER FUNCTION USING SC-Scan A

The procedure for connecting to and disconnecting from the scanner function using SC-Scan A is explained below. Note that multiple users cannot connect to the scanner function at a time. After using the scanner function, make sure to click the "Disconnect" button to release the function.

Click the "Start" button, select "All Programs", select "SC-Scan A", and then click "SC-Scan A".



- In Windows XP, click the "start" button, select "All Programs", select "SC-Scan A", and then click "SC-Scan A".
- In Windows 2000, click the "Start" button, select "Programs", select "SC-Scan A", and then click "SC-Scan A".
- 2 Select the device (the scanner function) in the "Device server list" window or "Favorites list" window and click the "Connect" button.

The network connection between your computer and the scanner function has been established. You can use the scanner function of the machine.

When you have finished scanning, select the device (the scanner function) from the list and click the "Disconnect" button.

The network connection is disconnected.

SCANNING USING THE KEYS ON THE MACHINE

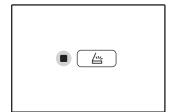
When scanning is performed by this method, the application that has been set in Button Manager will automatically start and the scanned image will be pasted into the application. For the steps to allocate applications using the Button Manager or other settings, see "BUTTON MANAGER SETTINGS" (p.49).



If the machine is in copy mode, press the [SCAN] key (() to switch to scanner mode and clear the previously set copy settings.

Scanning from the operation panel of the machine

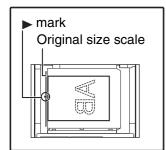
1 Press the [SCAN] key (些).



When the SCAN indicator lights up, the machine enters scanner mode.

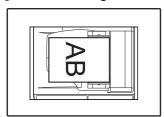
Place the original(s) that you wish to scan on the document glass/RSPF.

[When scanning from the document glass]



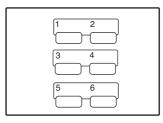
Place the original face down on the document glass. Align the edge of the original with the original size scale, to be centred with the centring mark ().

[When scanning from the RSPF]



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

Press the [SCAN MENU] key to begin scanning.



Scanning will start and the scanned data will be transferred to the application.

The target application can be selected by the [SCAN MENU] key.

For the default application allocated to each key, see "BUTTON MANAGER SETTINGS" (p.49).



The display will show the number of the [SCAN MENU] key that you pressed, and the number will light and the SCAN indicator will be blinking.



- For limitations on copying and printing in scanner mode, and scanner mode while copying or printing, see "OPERATION IN COPY, PRINTER, AND SCANNER MODES" (p.14).

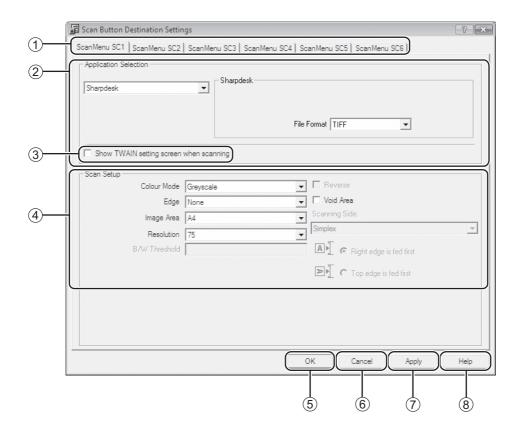
OUTLINE OF BUTTON MANAGER

Button Manager is a software utility that allows you to use the scanner function at the machine. Button Manager allows you to configure six sets of scanning settings as a scan menu on the machine.

To view Help for a setting, click the button in the upper right-hand corner of the window and then click the setting.

To begin scanning using the machine's operation panel, settings must be established in the Control Panel after Button Manager is installed. For information on installing Button Manager and establishing the Control Panel settings, see "SETTING UP BUTTON MANAGER" in the Start Guide. For information on scanning using the machine's operation panel, see "SCANNING USING THE KEYS ON THE MACHINE" (p.47).

You can use Button Manager to select and change the functions of the six scan menus. Refer to "BUTTON MANAGER SETTINGS" (p.49).



① Tab

Click to set scan menu options. Each tab contains scan settings for the scan menu.

② "Application Selection" area

Select the start-up application here.

Show TWAIN setting screen when scanning Checkbox

You can select whether or not the TWAIN screen is shown. When the checkbox is selected, the TWAIN screen appears when scanning is executed to let you adjust the scanning conditions.

4 "Scan Setup" area

Set the scan conditions.



Some applications may limit your choice of settings.

⑤ "OK" button

Click to save your settings and exit the dialog box.

6 "Cancel" button

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

[☼] "Apply" button

Click to save your settings without closing the dialog box.

8 "Help" button

Click this button to display the help file for Button Manager.

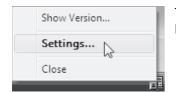
BUTTON MANAGER SETTINGS

Once installed, Button Manager normally runs in the background in the Windows operating system. If you need to change Button Manager settings, follow the steps below.

For details on Button Manager settings, see Button Manager Help.

"OUTLINE OF BUTTON MANAGER" (p.48)

Right-click the Button Manager icon () on the task bar, and select "Settings" from the pop-up menu.



The setting screen of Button Manager will open.

- 4 Set up the "Colour Mode", "Edge" and other scan settings in the "Scan Setup" area.
- 5 Click the "OK" button.

This completes the settings.



If the Button Manager icon does not appear on the task bar, click the "Start" button, select "All Programs" ("Programs" in Windows 2000), select "Sharp Button Manager U", and then click "Button Manager" to start Button Manager.

2 Click the tab of the scan menu that you want to set up.

ScanMenu SC1 | ScanMenu SC2 | ScanMenu SC3 | ScanMenu SC4 | ScanMenu SC5 | ScanMenu SC6 |

3 Select the start-up application in the "Application Selection" area.



When the "Show TWAIN setting screen when scanning" checkbox is selected, the scan setting screen appears when scanning is executed to let you adjust the scanning conditions.

Button Manager scan menu (factory default)

Display/Button Manager menu	Application that starts
ScanMenu SC1	Sharpdesk
ScanMenu SC2	Email
ScanMenu SC3	FAX
ScanMenu SC4	OCR
ScanMenu SC5	Microsoft Word
ScanMenu SC6	Filing



The start-up application must be installed before using.

SCANNING FROM YOUR COMPUTER

The machine supports the TWAIN standard, making it possible to scan from TWAIN-compliant applications. The machine also supports WIA (Windows Image Acquisition), making it possible to scan from WIA-compliant applications and the "Scanner and Camera Wizard" in Windows XP. For information on TWAIN and WIA settings, see the help file for the scanner driver or Windows Help.

SCANNING FROM A TWAIN-COMPLIANT APPLICATION

The SHARP scanner driver is compatible with the TWAIN standard, allowing it to be used with a variety of TWAIN-compliant applications.

Place the original(s) that you wish to scan on the document glass/RSPF.

For information on setting an original for scanning, refer to "SCANNING USING THE KEYS ON THE MACHINE" (p.47).

After starting TWAIN-compliant application, click the "File" menu and select a menu to scan.



The method for accessing the menu to select the scanner depends upon the application. For more information, refer to the manual or the help file of your application.

3 Select "SHARP MFP TWAIN U", and click the "Select" button.



- If you are using Windows XP/Vista, you can also select "WIA-SHARP AR-XXXX" to scan using the WIA driver.
- "SCANNING FROM A WIA-COMPLIANT APPLICATION (Windows XP/Vista)" (p.54)
- Depending on your system, "SHARP MFP TWAIN U 1.0 (32-32)" and "WIA-SHARP AR-XXXX 1.0 (32-32)" may appear in the above "Select Source" screen.
- 4 Select the menu to acquire an image from the application's "File" menu.

The scanner driver setup screen will appear. "Scanner driver settings" (p.52)

In the "Scanning Source" menu, select the location where you placed the original in Step 1.



- If you placed a one-sided original in the RSPF, select "SPF (Simplex)".
- If you placed a two-sided original in the RSPF, select "SPF (Duplex-Book)" or "SPF (Duplex-Tablet)" according to the binding position of the original.



If you selected "SPF (Duplex-Book)" or "SPF (Duplex-Tablet)" in the "Scanning Source" menu, select whether the orientation of the placed original is "Right edge is fed first" or "Top edge is fed first".

6 Click the "Preview" button.

The preview image will appear.



- If the angle of the image is not correct, reset the original, and click the "Preview" button again.
- If the preview image is not oriented correctly, click the "Rotate" button in the preview screen. This rotates the preview image 90 degrees clockwise, allowing you to correct the orientation without resetting the original. "Preview screen" (p.53)
- If you set multiple pages in the RSPF, the machine previews only the top page of the originals, and then sends it to the original exit area. Return the previewed original to the RSPF before starting the scanning job.

7 Specify the scanning area and set the scan preferences.

For information on specifying the scan area and setting the scan preferences, see scanner driver Help.

"Scanner driver settings" (p.52)



Scanning a large area at high resolution results in a large quantity of data and a prolonged scanning time. It is recommended that you set appropriate scanning preferences for the type of original being scanned, i.e., Web page (monitor), Photo, FAX, or OCR.

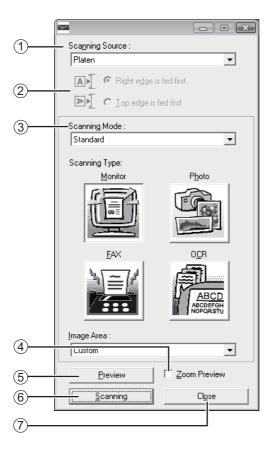
When you are ready to begin scanning, click the "Scanning" button.

To cancel a scanning job after clicking the "Scanning" button, press the [Esc] key on your keyboard.

Scanner driver settings

The scanner driver setup screen consists of the "Set-up screen", which lets you select scan settings, and the "Preview screen", which shows the scanned image. For details on the scan settings, click the "Help" button in the preview screen to display Help.

Set-up screen



① "Scanning Source" menu

Select the location where the original is placed. Selections are "Platen" (document glass), "SPF (Simplex)", "SPF (Duplex-Book)" or "SPF (Duplex-Tablet)".

"SCANNING FROM A TWAIN-COMPLIANT APPLICATION" (p.50)

② Scan side menu

If you placed a two-sided original in the RSPF, select "Right edge is fed first" or "Top edge is fed first" from the scan side menu according to the orientation of the placed original.

③ "Scanning Mode" menu

Select "Standard" or "Professional" for the scanning mode. For details on the settings, click the "Help" button in the preview screen to display Help.

4 "Zoom Preview" Checkbox

When this is selected, the selected part of the preview image will be enlarged when the "Preview" button is clicked. To return to the regular view, remove the checkmark.



"Zoom Preview" can be used when "Platen" is selected in the "Scanning Source" menu.

⑤ "Preview" button

Previews the document.



If "Preview" is cancelled by immediately pressing the [Esc] key on your keyboard, or the [CLEAR] key (C) or [CLEAR ALL] key (CA) on the machine, nothing will appear in the preview screen.

6 "Scanning" button

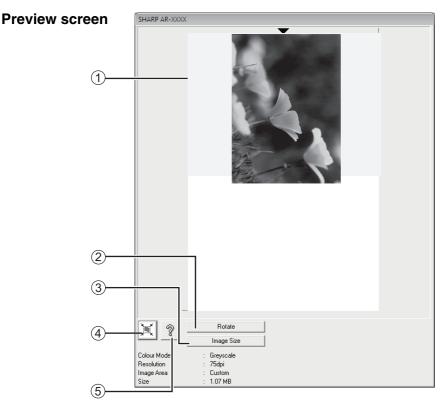
Click to scan an original using the selected settings. Before clicking the "Scanning" button, make sure the settings are correct.



To cancel a scanning job after clicking the "Scanning" button, press the [Esc] key on your keyboard, or the [CLEAR] key (C) or [CLEAR ALL] key (CA) on the machine.

[☼] "Close" button

Click to close the scanner driver setup screen.



1 Preview screen

Click the "Preview" button in the Set-up screen to display the scanned image. You can specify the scanning area by dragging the mouse inside the window. The inside of the frame that is created when you drag the mouse will be the scanning area. To cancel a specified scanning area and clear the frame, click anywhere outside the frame.

2 "Rotate" button

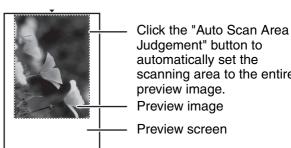
Click to rotate the preview image 90 degrees clockwise. This allows the orientation to be corrected without resetting the original. Upon scanning, the image file is created in the orientation shown in the preview screen.

③ "Image Size" button

Click to open a dialog box that allows you to specify the scanning area by entering numbers. Pixels, mm, or inches can be selected for the units of the numbers. By initially specifying a scanning area, numbers can be entered to change that area relative to the top left corner as a fixed origin.

"Auto Scan Area Judgement" button

Click when the preview screen is displayed to automatically set the scanning area to the entire preview image.



Judgement" button to automatically set the scanning area to the entire preview image. Preview image

Preview screen

⑤ "Help" button

Click to display the help file for the scanner driver.

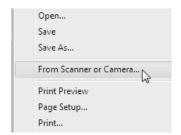
SCANNING FROM A WIA-COMPLIANT APPLICATION (Windows XP/Vista)

If you are using Windows XP/Vista, you can use the WIA driver to scan from Paint and other WIA-compliant applications. The procedure for scanning using Paint is explained in the following.

1 Place the original that you wish to scan on the document glass/RSPF.

For information on setting an original for scanning, refer to "SCANNING USING THE KEYS ON THE MACHINE" (p.47).

2 Start Paint and then click the "File" menu and select "From Scanner or Camera".



The scan screen of the WIA driver will appear.



If you have WIA drivers for other devices installed in your computer, the "Select Device" screen will open. Select "SHARP AR-XXXX" and click the "OK" button.

Select the paper source and picture type, and click the "Preview" button.



The preview image will appear.

If you placed the original on the document glass, select "Flatbed" for the "Paper source". If you placed the original in the RSPF, select "Document Feeder" for the "Paper source" and specify the original size in "Page



 If you select "Document Feeder" for the "Paper source" and click the "Preview" button, the top original in the RSPF is previewed. The previewed original is sent to the original exit area, so you will need to return it to the RSPF before starting the scanning job.

size".

 In Windows XP, you can view Help for a setting. Click the button in the upper right-hand corner of the window and then click the setting.

4 Click the "Scan" button.

Scanning begins and the image is acquired into Paint.

Use "Save" in your application to specify a file name and folder for the scanned image, and save the image.

To cancel a scanning job after clicking the "Scan" button, click the "Cancel" button.

SCANNING FROM THE "Scanner and Camera Wizard" (Windows XP)

The procedure for scanning with the "Scanner and Camera Wizard" in Windows XP is explained here. The "Scanner and Camera Wizard" lets you scan an image without using a WIA-compliant application.

Place the original that you wish to scan on the document glass/RSPF.

For information on setting an original for scanning, refer to "SCANNING USING THE KEYS ON THE MACHINE" (p.47).

- 2 Click the "start" button, click "Control Panel", click "Printers and Other Hardware", and then click "Scanners and Cameras".
- Click the "SHARP AR-XXXX" icon and then click "Get pictures" in "Imaging Tasks".



The "Scanner and Camera Wizard" will appear.

4 Click the "Next" button.



5 Select the "Picture type" and click the "Next" button.





To adjust the resolution, picture type, brightness and contrast settings, click the "Custom settings" button.

6 Specify a group name, format and folder for saving the image, and then click the "Next" button.



JPG, BMP, TIF or PNG can be selected for the format. To begin scanning, click the "Next" button.

When scanning ends, the following screen will appear. Select the next task that you wish to perform, and then click the "Next" button.



If you are ready to end the session, click "Nothing. I'm finished working with these pictures".

8 Click the "Finish" button.



The "Scanner and Camera Wizard" closes and the scanned image is saved in the specified folder.

5 Chapter 5 USER SETTINGS

This chapter explains how to set the automatic exposure level, network settings through your web browser, 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 RSPF.



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

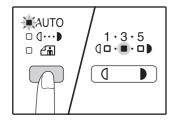
To adjust the automatic exposure level in the RSPF, place the original in the RSPF. (p.16)

Make sure that the RSPF indicator is lit.



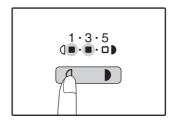
To adjust the automatic exposure level for copies made from originals placed on the document glass, proceed to step 2.

- Press the [AUTO/TEXT/PHOTO] key (AUTO /(1...) / / (1...) to select "PHOTO" (/₁).
- Hold down the [AUTO/TEXT/PHOTO] key (AUTO /(...) / ♠) until the AUTO indicator (AUTO) blinks.



The exposure level indicators show the current setting.

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



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

The AUTO indicator (AUTO) 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.

ABOUT THE WEB PAGE

This section explains how to monitor the status of the machine and configure advanced settings using a Web browser. Since the HTTP protocol is loaded on the machine, advanced settings for the machine can be configured or changed through a Web browser. Useful functions including remote reboot of the network settings and status monitor are also available.



- To use a Web browser, the TCP/IP settings need to be enabled, and an IP address needs to be configured.
- The following explanation is an example when using Internet Explorer in a Windows Vista environment. The display may vary depending on the Web browser.
- The display language of the Web page can be selected from English or Japanese.

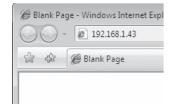
HOW TO ACCESS THE WEB PAGE

Use the following procedure to access the Web page.

Open the Web browser on your computer.

Supported browsers: Internet Explorer 5.5 or later Netscape Navigator 7.0 or later

In the address field of your Web browser, enter the IP address that has been configured in the machine.



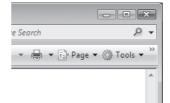
When the connection is completed, the Web page will appear in your Web browser.



The Web page of the machine consists of three tabs below.

- "Status" tab: This indicates the status of the machine. (p.58)
- "Network Settings" tab: You can configure the network settings of the machine. (p.60)
- "System Information" tab: You can view the system information, set the administrative password, and reset and reboot the network settings of the machine. (p.66)

3 When finished, close the Web page.



When you have finished using the Web page, click the (close) button in the top right corner of the page.

Configuring from the Web page

Click the item you want to configure in the Web browser. A configuration window will be displayed in the Web browser.



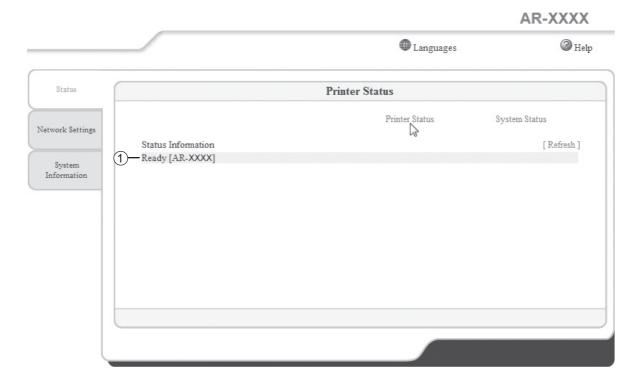
Before configuring the machine, user name and password are required. When a window prompting you for a user name and password displayed, type a user name and password. The user name is fixed to "admin" (without "). The default password is set to "admin" (without "). You can change the password from the Web page of the machine.

MONITORING THE STATUS OF THE MACHINE ("Status" TAB)

You can monitor the status of the machine from the "Status" tab of the Web page. The "Status" tab displays the "Printer Status" window and "System Status" window.

"Printer Status" window

To display the "Printer Status" window, click "Printer Status" on the "Status" tab.



Status Information

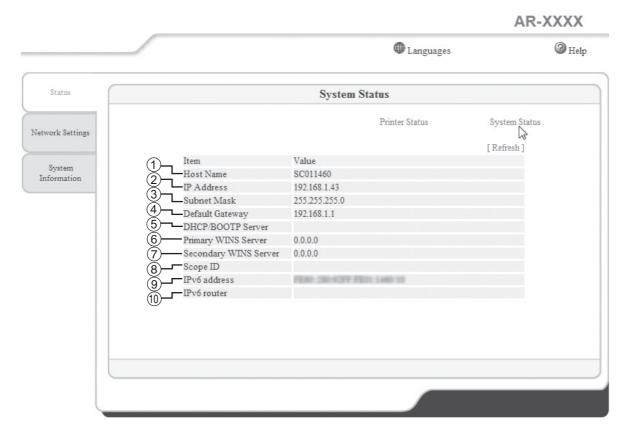
Display the printer status.

The printer status of the machine will be shown under "Status Information" as a set of strings. "Ready" means the machine can print. "Not Ready" means the machine cannot print. When the machine cannot print, additional strings "PaperEmpty", "NotSelect", and "Fault" (with round brackets) will appear after "Not Ready" according to the printer status. The string "and Printing" will be added to the string if the machine is printing.

For example, "NotReady (NotSelect Fault) and Printing" means the machine is offline and a printer error occurred while the machine is printing.

"System Status" window

To display the "System Status" window, click "System Status" on the "Status" tab.



The "System Status" window shows the network status of the machine.

① Host Name

Display the host name of the machine.

② IP Address

Display the IP address of the machine.

3 Subnet Mask

Display the subnet mask of the machine.

4 Default Gateway

Display the default gateway of the machine.

5 DHCP/BOOTP Server

Display the IP address of a DHCP/BOOTP server when an IP address of the machine is assigned by the DHCP/BOOTP server.



- The value will appear when "DHCP/BOOTP" is enabled on the "Network Settings" window. (p.60)
- When "DHCP/BOOTP" is enabled on the "Network Settings" window (p.60), "Lease Time(sec.)" will appear below the "DHCP/BOOTP Server" to show the leased time.

6 Primary WINS Server

Display the IP address of a WINS Primary Server of the machine.

O Secondary WINS Server

Display the IP address of a WINS Secondary Server of the machine.

8 Scope ID

Display the scope ID of the machine.

9 IPv6 address

Display the current IPv6 address. (It will not be displayed when the IPv6 function is set to "DISABLE".)

1 IPv6 router

Display the IPv6 address of the router that is distributing the IPv6 address. (It will not be displayed when the IPv6 function is set to "DISABLE".)

CONFIGURING THE NETWORK SETTINGS ("Network Settings" TAB)

You can configure the network settings of the machine from the "Network Settings" tab of the Web page. The "Network Settings" tab displays the "Network Settings" window, "SNMP Configuration" window, "Filter Configuration" window and "Port Configuration" window. Enter or select the desired settings and click the "Submit" button to confirm the settings.



- When the "Submit" button is clicked, the settings will be stored in the machine. Then, the machine reboots the network settings automatically.
- Until clicking the "Submit" button, you can reset any changes made on the "Network Settings" tab. To reset the
 changes, click the "Reset" button. Note that clicking the "Reset" button does not reset the network settings of the
 machine to the factory defaults.
- If you move to another tab unless clicking the "Submit" button, the changes made on the "Network Settings" tab are canceled.

"Network Settings" window

To display the "Network Settings" window, click "Network Settings" on the "Network Settings" tab.



You can set the network parameters.

1 Host Name

Configure the host name on the machine. The name set here is used with WINS and SC-Scan A, etc. The name must be different from those of other device.

② DHCP/BOOTP

The function to get IP address from the DHCP/BOOTP server when the machine is turned on.

To get the IP address of the machine from the DHCP/BOOTP server, the DHCP/BOOTP server with the appropriate configuration must be running in the subnetwork. When the setting is "DHCP+BOOTP", the machine detects DHCP and BOOTP automatically. If more than one address gets returned, the IP address which is returned first will be assigned.

3 RARP

Enable/disable RARP protocol operations. RARP is a protocol, via which IP address gets assigned by the RARP server. If you use RARP server, the RARP server must be in the same segment as the machine.

4 IP Address

Configure the IP address on the machine. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx".

Subnet Mask

Configure the subnet mask on the machine. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx". If the value is "0.0.0.0", the subnet mask corresponding to the IP address will be assigned automatically.

6 Default Gateway

Configure the gateway IP address on the machine. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.". The gateway must be in the network where the machine exists. If the value is "0.0.0.0", this setting is disabled.

Primary WINS Server

Assign the WINS server's address (primary). WINS server will resolve the IP address from the host name. Therefore you can use a host name instead of the IP address when communicating via TCP/IP. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx".

8 Secondary WINS Server

Assign the WINS server's address (secondary). WINS server will resolve the IP address from the host name. Therefore you can use a host name instead of the IP address when communicating via TCP/IP. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx".

9 Scope ID

The scope ID defines the computer group that recognised the registered host name. All computers which have the same scope ID can recognise each other.

ɓ IPv6

Enable/disable an IPv6 function.

11 DHCPv6

Enable/disable a DHCPv6 function.

IPv6 Stateless Address

Enable/disable an IPv6 stateless address.

(13) IPv6 Address

Configure the IPv6 address.

(4) IPv6 Default Gateway

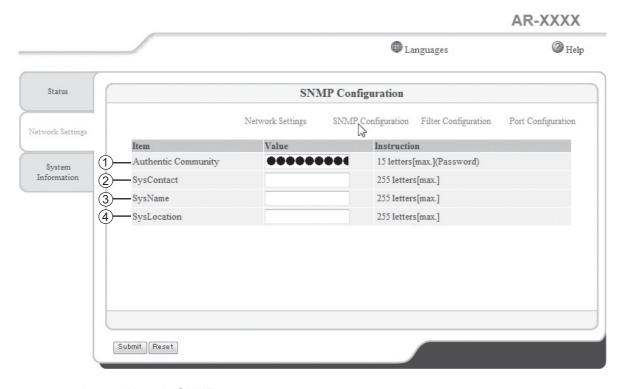
Configure the default gateway address of IPv6.

15 LAN Interface

Configure the physical network type. "AUTO" is recommended.

"SNMP Configuration" window

To display the "SNMP Configuration" window, click "SNMP Configuration" on the "Network Settings" tab.



You can manage the machine via SNMP.

1 Authentic Community

Specify the authentication community name of SNMP. This community name is authenticated when an SNMP set request is received.

② SysContact

Specify the SysContact of the MIB-II object. The e-mail address of the network administrator is usually specified.

③ SysName

Specify the SysName of the MIB-II object. The host name or domain name of the machine is usually specified.

4 SysLocation

Specify the SysLocation of the MIB-II object. The location of the machine is usually specified.

"Filter Configuration" window

To display the "Filter Configuration" window, click "Filter Configuration" on the "Network Settings" tab.



IP address filtering, IPv6 address filtering and MAC address filtering are available. Note that no filter is active by the factory defaults.

1 Filter Mode

Enable/disable a filter configuration.

② IP Filter Mode

Configure the IP filter operations. Available options are "ALLOW" and "DENY". If you select "ALLOW", only the data from the configured IP address range can be accepted. If you select "DENY", the data from the configured IP address range cannot be received.

Start IP Address (Filter address1-4)

Configure the start address of the IP filter. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx".

4 End IP Address (Filter address1-4)

Configure the end address of the IP filter. The value must be configured in the format of a four-part series of numbers separated by decimal points, such as "xxx.xxx.xxx.xxx".

⑤ IPv6 Filter Mode

Configure the IPv6 filter operations. Available options are "ALLOW" and "DENY". If you select "ALLOW", only the data from the configured IPv6 address range can be accepted. If you select "DENY", the data from the configured IPv6 address range cannot be received.

6 Start IPv6 Address (Filter address1-4)

Configure the start address of the IPv6 filter. The value must be configured in the format of a six-part series of hexadecimal numbers separated by colon, such as "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/64".

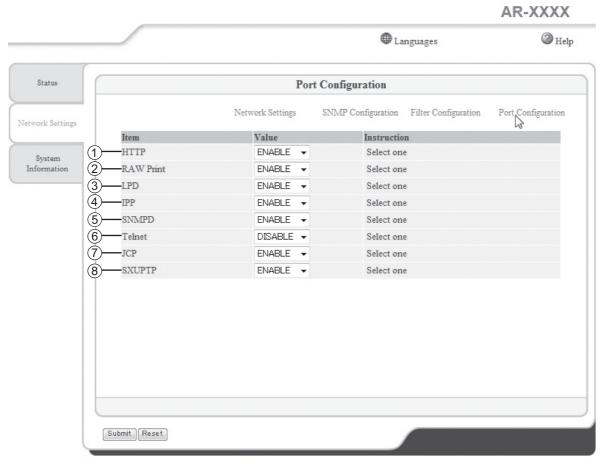
Tend IPv6 Address (Filter address1-4)

Configure the end address of the IPv6 filter. The value must be configured in the format of a six-part series of hexadecimal numbers separated by colon, such as "xxxx:xxxx:xxxx:xxxx:xxxx:xxxx/64".

® MAC Address Filter Config (Filter address1-10) Configure the MAC address of the filter. The value must be hexadecimal numbers in 12 figures.

"Port Configuration" window

To display the "Port Configuration" window, click "Port Configuration" on the "Network Settings" tab.



Port filtering function is also available.

- ① **HTTP**Enable/disable an HTTP port.
- ② RAW Print Enable/disable a 9100 port.
- ③ LPD Enable/disable an LPD port.
- ④ IPP Enable/disable an IPP port.
- SNMPD Enable/disable an SNMP port.

- © Telnet Enable/disable a TELNET port.
- JCP Enable/disable a JCP port.
- SXUPTP
 Enable/disable an SXUPTP port.



- JCP is a proprietary protocol developed by silex technology, Inc. It enables the IP address of the machine to be set from the software utility on the accessory CD-ROM.
- SXUPTP is a proprietary protocol developed by silex technology, Inc. It enables the scanner function of the machine to be shared over a network.

MANAGING THE SYSTEM INFORMATION ("System Information" TAB)

From the "System Information" tab of the Web page, you can view the system information of the machine, set the administrative password, reset the network settings of the machine to the factory defaults and reboot the network settings of the machine. "System Information" tab displays the "System Information" window, "Password" window and "Reset" window.

"System Information" window

To display the "System Information" window, click "System Information" on the "System Information" tab.



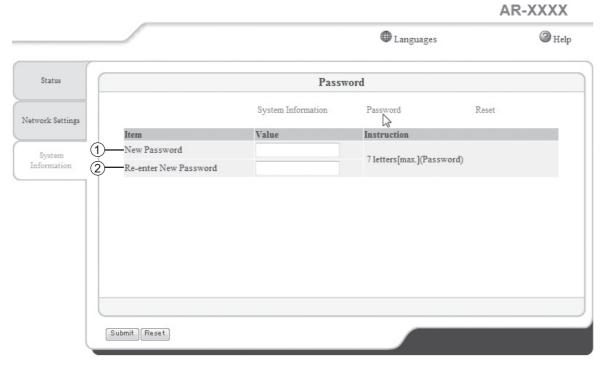
You can view the MAC address and firmware version of the machine.

MAC Address
Display the MAC address of the machine.

② **Firmware Version**Display the firmware version of the machine.

"Password" window

To display the "Password" window, click "Password" on the "System Information" tab.



1 New Password

Configure the administrative password in ASCII characters (up to 7 characters). This is used as the authentication password for configuration changes via the Web page.

② Re-enter New Password Re-enter the new password.

Setting an administrative password prevents unauthorised users from changing the network settings of the machine. If you forget the password, you need to manually reset the network settings of the machine to the factory defaults and configure the settings again. For details on manually resetting the machine to the factory defaults, see "HOW TO MANUALLY RESET THE NETWORK SETTINGS OF THE MACHINE" (p.103).

"Reset" window

To display the "Reset" window, click "Reset" on the "System Information" tab.



You can reboot the network settings of the machine and reset the network settings of the machine to the factory defaults via a network.

① Reboot

Reboot the network settings of the machine by clicking the "Start" button.

② Reset to Factory Default

Reset the network settings of the machine to the factory defaults by clicking the "Start" button.

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. 4: 60 sec. 5: 90 sec. 6: 120 sec.	"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.
2	Preheat mode	1: 1 min. 2: 5 min. 3: 30 min. 4: 60 min. 5: 120 min. 6: 240 min.	• 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 (②) 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.
3	Auto power shut-off timer	1: 5 min. 2: 30 min. 3: 60 min. 4: 120 min. 5: 240 min.	 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.
4	Stream feeding mode ^{*1}	0: OFF 1: ON	When copying using the RSPF, during the period of time that the RSPF indicator blinks after an original has been scanned (about 5 seconds), a subsequent original can be placed and automatically fed into the machine.
5	Auto power shut-off setting	0: OFF 1: ON	Use this setting to enable or disable auto power shut-off.
6	Border line for 2 IN 1 / 4 IN 1	1: OFF 2: Solid line 3: Broken line	 When copying multiple originals onto a single sheet of paper (2 IN 1 / 4 IN 1 copy), this function can be used to print a solid or broken borderline around each original image.

^{*1}When the RSPF is installed.

Program	Program name	Setting codes (factory default setting	Explanation
number	J	appears in bold)	
7	Rotation copy	0: OFF 1: ON	 When the auto paper select function is enabled and there is no paper that is the same size as the original and loaded in the same orientation, this function will automatically select paper of the same size that is loaded in the opposite orientation, and rotate the image 90 degrees so that it is copied on the paper in the correct orientation. When the auto ratio select function is operating and the original and paper are loaded in opposite orientations, this function rotates the image so that it is copied on the paper in the correct orientation.
8	Auto paper select mode ²	0: OFF 1: ON	This function automatically selects paper that is the same size as the original placed in the RSPF, or the same size as that selected with the [ORIGINAL] key (ORIGINAL). The function can be disabled.
9	Auto tray switching ^{*2}	0: OFF 1: ON	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.
10 to 15	Auditing mode	_	See "AUDITING MODE SETTINGS" (p.73).
16	Erase width adjustment	1: 0 mm 2: 5 mm 3: 10 mm 4: 15 mm 5: 20 mm	Use this setting to set the width of erasure of shadows that appear around the edges and at the binding margin when a book or similar original is copied.
17	Layout in 2 IN 1 copy	1: Pattern 1 2: Pattern 2	Use this setting to select the layout pattern when two original pages are copied onto a single sheet of paper (see page 32 for the layout patterns).
18	Layout in 4 IN 1 copy	1: Pattern 1 2: Pattern 2 3: Pattern 3 4: Pattern 4	Use this setting to select the layout pattern when four original pages are copied onto a single sheet of paper (see page 32 for the layout patterns).
20	Image rotation in duplex copying	0: OFF 1: ON	When a one-sided vertical (portrait) original is placed in a horizontal orientation (B4 or A3 size) for two-sided copying, the top and bottom of the images on the front and back of the paper will be opposite to each other.
21	Location of the margin ^{*1}	1: Left edge 2: Top edge	Use this setting to switch between the margin at the top edge and the margin at the left edge.
22	Margin width	1: 0 mm 2: 5 mm 3: 10 mm 4: 15 mm 5: 20 mm	Use this setting to set the margin width.
23	Resolution in Auto/Text mode	1: 300 dpi 2: 600 dpi	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.

^{*1} When the RSPF is installed.
*2 When there are two or more paper trays.

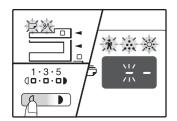
Program	Dua suam nama	Setting codes	Funlanation
number	Program name	(factory default setting appears in bold)	Explanation
24	Memory allocated to printer mode	1: 30% 2: 40% 3: 50% 4: 60% 5: 70%	Use this to change the proportion of machine memory used for printer mode.
25	Key auto repeat	0: OFF 1: ON	Use 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.
26	Key press time	1: Minimum (current response speed) 2: 0.5 sec. 3: 1.0 sec. 4: 1.5 sec. 5: 2.0 sec.	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.
27	Audible signals volume	1: Short beep 2: Long beep 3: OFF	This sets the volume of beep signals. (p.72)
28	Base setting beep signal	0: OFF 1: ON	Use this to sound a beep when a base setting is selected. (p.72)
29	Number of copies limit	1: 99 copies 2: 999 copies	Use this setting to select 99 or 999 for the maximum number of copies.
30	Use close paper size	0: OFF 1: ON	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.
31	Default tray setting ^{*3}	1: Upper paper tray 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	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.
32	Default exposure mode	1: AUTO 2: TEXT 3: PHOTO	Use this program to set "AUTO", "TEXT", or "PHOTO" as the default exposure mode.
34	Sort auto select*1	1: OFF 2: Sort 3: Group	Use this setting to select the default output mode for copying from the RSPF.

^{*1} When the RSPF is installed.
*3 AR-5516N 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,

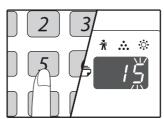
^{5:} Bypass tray

SELECTING A SETTING FOR A SYSTEM SETTING



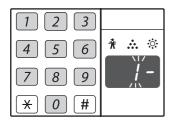
The display shows "- -" with the left hyphen blinking.

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



- For the setting codes, see "SYSTEM SETTINGS". (p.69 to p.71)
- The selected setting code blinks.
- For example, to select 90 seconds, press the [5] key.

2 Enter the program number with the numeric keys.

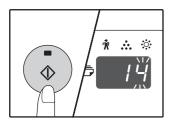


- See "SYSTEM SETTINGS" (p.69 to p.71) for the program numbers.
- The selected program number blinks.
- For example, to select "Auto clear timer", press the [1] key.



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

3 Press the [START] key (🍪).

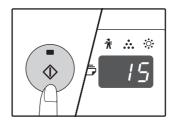


- The selected program number stops blinking and lights steadily.
- The currently selected setting code blinks on the right side of the display.

(#Note)

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

5 Press the [START] key (③).



The selected setting code stops blinking and lights steadily.



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

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

The alarm indicators ($^{\bullet}$, $^{\bullet}$, $^{\bullet}$, $^{\bullet}$, $^{\bullet}$) 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 71. If you wish to change the volume of the beep signals or disable them, see "Audible signals volume" on page 71. The beep patterns of each type of beep signal are as follows:

Key entry beep One beep Invalid key beep Two beeps

Base setting beepThree beeps

Base settings

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

Copy ratio100% Light and Dark indicator......3 Paper feed location...... Upper paper tray ORIGINAL SIZE......A4
AUTO/TEXT/PHOTO (AUTO/(...)/(iii))
......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:

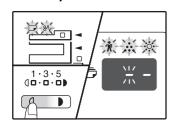
- Enable "Auditing mode" (p.75)
- Account number entry (p.75)

AUDITING MODE SETTINGS

Program number	Program name	Setting codes (factory default settings are indicated in bold)	Explanation
10	Auditing mode	0: OFF 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	0: Delete single account 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	0: Reset single account 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

Hold down the [Light] key (ⓓ) until the alarm indicators (ਐ, ❖, ❖, 孠, ⑻∿) blink.

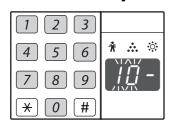


The display shows "- -" with the left hyphen blinking.

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

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

2 Enter the program number with the numeric keys.

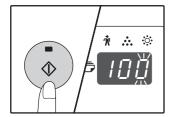


- See "AUDITING MODE SETTINGS" (p.73) for the program numbers.
- The selected program number blinks.
- For example, to select "Auditing mode", enter "10".



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

3 Press the [START] key (③).



- 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.73).



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

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 (③).



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

2 Press the [CLEAR] key (©).

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 (③).



- 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 (©).

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 (3).

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 (③).



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

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 ($^{\circ}$).

All account numbers will be deleted.

[Deleting a single account]

- 1 Press the [0] key, and then press the [START] key (③).
- 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.
- 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 (③).

The copy counts of all accounts will be deleted.

[Resetting a single account]

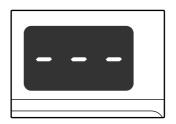
- 1 Press the [0] key, and then press the [START] key (③).
- 2 Select the account number to be reset with the [Copy ratio display] key (%) and then press the [START] key (3).



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.



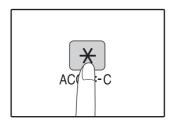
If you enter an incorrect number, press the [CLEAR] key (C) and then enter the correct number.

2 Follow the appropriate steps to make the copy.



If you are performing an interrupt copy (p.28), be sure to press the [INTERRUPT] key () when finished to exit interrupt mode.

When finished, press the [x] key (ACC.#-C).





Chapter 6 TROUBLESHOOTING

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.	78
Copies are too dark or too light	
Blank copies	
Part of the image is cut off or there is too much blank space.	
Wrinkles appear in the paper or the image disappears in places.	
Paper misfeed.	
Original size not selected automatically. (When the RSPF is installed.)	
Copies are smudged or dirty	
White or black lines appear on copies.	
Paper size for a paper tray cannot be set.	
A copy job stops before it is finished	
The POWER SAVE indicator (②) is lit	
Any one of the alarm indicators (🛊 , 🔥 , 🌣 , 🤛 , 👭) is lit or blinking	
Lighting fixture flickers.	80
PRINTING AND SCANNING PROBLEMS	
The machine does not print. (ON LINE indicator does not blink.)	81
The machine does not print. (ON LINE indicator was blinking.)	
A Notice Page (NP-001) has been printed, but the print data has not been printed completely	
Printing is slow.	
The printed image is light and uneven.	
The printed image is dirty	82
The printed image is skewed or it runs off the paper	
The printed image is darker or lighter than expected	82
Any one of the alarm indicators (♣, ♣, ♦; , □, , , ♦) is lit or blinking	82
Poor scanning quality	83
Unable to scan the image	84
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REPLACING THE TONER CARTRIDGE	98

MACHINE/COPYING PROBLEMS

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

Problem	Cause and solution	Page
	The machine is not plugged into a power outlet. → Plug the machine into a grounded outlet.	-
	Power switch OFF. → Turn the power switch ON.	8
	The POWER SAVE indicator (♠) is blinking. → Indicates that the machine is warming up. Copies cannot be made until the machine has finished warming up.	8
	The front cover or the side cover is not completely closed. → Close the front cover or the side cover.	-
The machine does not operate.	The machine is in auto power shut-off mode. → In auto power shut-off mode, all lights are off except the POWER SAVE indicator (②) and ON LINE indicator. Press the [START] key (③) to resume normal operation.	8
	PAPER SIZE indicator is 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: • Use the [PAPER SELECT] key (□ DEPRING TO CHANGE THE TRAY SELECT). • Open and close the tray. • Press the [CLEAR ALL] key (□A).	12, 18
Copies are too dark or too light.	Select the correct original type for the original. → Select AUTO with the [AUTO/TEXT/PHOTO] key or press the [Light] key (18 56
Blank copies.	The original is not placed face up in the RSPF or face down on the document glass. → Place the original face up in the RSPF or face down on the document glass.	15, 16
	The original was not placed in the correct position. → Place the original correctly.	15, 16
Part of the image is cut off or there is too much blank space.	An appropriate ratio was not used for the size of the original and the size of the paper. → Press the [AUTO IMAGE] key (AUTO %) to have the copy made using the appropriate ratio for the original and paper.	19
	The size of paper loaded in the tray was changed without changing the tray's paper size setting. → Be sure to change the tray's paper size setting whenever you change the size of paper loaded in the tray.	12
	The paper is outside of the specified size and weight range. → Use copy paper within the specified range.	9
Wrinkles appear in the paper or the image disappears in places.	Paper curled or damp. → 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
	Misfeed occurs. → To remove the misfeed, see "MISFEED REMOVAL".	91
	The paper is outside of the specified size and weight range. → Use copy paper within the specified range.	9
	Paper curled or damp. → 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.	-
	Paper is not loaded properly. → Make sure the paper is properly installed.	10
	Pieces of paper inside machine. → Remove all pieces of misfed paper.	91
Paper misfeed.	Too much paper is loaded in the tray. → 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
	The guides on the bypass tray do not match the width of the paper. → Adjust the guides to match the width of the paper.	11
	The bypass tray extension is not pulled out. → When loading a large size of paper, pull out the extension.	11
	The bypass paper feed roller is dirty. → Clean the roller.	102
	A5 paper is loaded in lower paper tray or in the 250-sheet or 2 x 250-sheet paper feed unit. → A5 size paper must be loaded in upper paper tray or the bypass tray.	9, 10
Original size not selected automatically.	Original(s) curled. → The original size cannot be correctly detected if the original is curled or folded. Straighten the original.	-
(When the RSPF is installed.)	The machine is directly exposed to sunlight. → Install in a location that is not exposed to sunlight.	_

Problem	Cause and solution	Page
Copies are smudged or dirty.	The document glass or the underside of the document cover/RSPF is dirty. → Clean regularly.	101
	Original smudged or blotchy. → Use a clean original.	_
White or black lines appear on	The scanner glass for the RSPF is dirty. → Clean the long, narrow scanning glass.	101
copies.	The transfer charger is dirty. → Clean the transfer charger.	102
	Copying or printing is performed. → Set the paper size after copying or printing is complete.	_
Paper size for a paper tray cannot	The machine has stopped temporarily due to running out of paper or a misfeed. → Load paper or remove the misfeed, and then set the paper size.	10, 91
be set.	An interrupt copy job is in progress. → Set the paper size after the interrupt copy job is finished.	28
	The display or the ORIGINAL DATA indicator (ﷺ DATA) is blinking. → Data is being held in memory. Print the data in memory or clear it from memory.	30, 32
	The paper output tray is full. → Long copy runs are automatically paused every 250 copies. Remove the copies in the paper output tray and press the [START] key (⑤) to resume copying.	19
A copy job stops before it is finished.	"FUL" appear in the display. → The memory became full during sort/group copy or 2 IN 1 / 4 IN 1 copy. Copy only the originals that have been scanned to that point, or cancel the job and clear the data from memory.	30, 32
	The tray is out of paper. → Load paper.	10
	Any other indicators are lit. → If other indicators are lit, the machine is in "Preheat mode". Press any key on the operation panel to resume normal operation.	8
The POWER SAVE indicator (③) is lit.	The POWER SAVE indicator (②) and ON LINE indicator are only lit. → If only the POWER SAVE indicator (②) and ON LINE indicator are lit, the machine is in auto power shut-off mode. Press the [START] key (③) to resume normal operation.	8
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.	90
Lighting fixture flickers.	The same power outlet being used is for the lighting fixture and the machine. → Connect the machine to a power outlet which is not used for other electric appliances.	-

PRINTING AND SCANNING 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
	The machine is set to off-line mode. → Press the [ON LINE] key (□□) to turn on the ON LINE indicator.	35
	The machine is not correctly connected with your computer. → 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
	Copy job is performed. → Wait until the copy job is complete.	-
The machine does not print. (ON LINE indicator does not blink.)	Your machine is not selected correctly in the current application for the print job. → 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.	-
	The printer driver has not been installed properly. → 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.	-
	The tray size settings are not the same on the machine and in the printer driver. → 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
The machine does not print. (ON LINE indicator was blinking.)	The specified size of paper has not been loaded. → Load the specified size of paper in the paper tray.	10
(C.1 Elite indicator was billining.)	The PAPER SIZE indicator is blinking. → 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 (PAPER) to select a tray manually, or load paper in the bypass tray and press the [ON LINE] key (□) to begin printing.	12, 18
	→ 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.	-

Problem	Cause and solution	Page
A Notice Page (NP-001) has been printed, but the print data has not been printed completely.	A print job containing more data than can be held in the print memory is sent to the machine. → Disable the ROPM function on the "Configuration" tab of the printer driver setup screen. If you need to use the ROPM function, divide the pages of the print data into two or more print jobs. → The memory allocated to the printer function can be changed in the system setting "Memory allocated to printer mode".	71
Printing is slow.	Simultaneous use of two or more application software programs. → Start printing after quitting all unused application software programs.	-
The printed image is light and uneven.	The paper is loaded so that printing takes place on the back side of the paper. → 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
	You are using paper that is outside the specified size and weight range. → Use copy paper within the specified range.	9
The printed image is dirty.	Paper curled or damp. → 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.	-
	You did not set sufficient margins in the paper settings of your application. → 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 paper loaded in the tray is not the same size as that specified in the printer driver. → 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.	-
The printed image is skewed or it runs off the paper.	The orientation of document setting is not correct. → Click the "Main" tab in the printer driver setup screen, and verify if the "Image Orientation" option is set to your requirements.	_
	Paper is not loaded properly. → Make sure the paper is properly loaded.	10
	You did not correctly specify the margins for the application in use. → 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.	The setting for the print density is not appropriate. → 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 $(\ \ \ \ \ \ \ , \ \ \ \ \ \ \ \ \ \ \ \$	See "INDICATORS AND DISPLAY MESSAGES" to check the meaning of the alarm indicator and error message in the display, and take appropriate action.	90

Problem	Cause and solution	Page
	The document glass or the underside of the document cover/RSPF is dirty. → Clean regularly.	101
	Original smudged or blotchy. → Use a clean original.	_
	You have not specified a suitable resolution. → Make sure that the resolution setting in the scanner driver is appropriate for the original.	-
Poor scanning quality.	You are scanning a large area (for example an entire A3) at high resolution. → If you attempt to scan a large area at high resolution and there is insufficient memory in the machine to hold the scanned data, scanning will take place at a lower resolution and the scanner driver will enhance the data to make up for the lower resolution. However, the quality of the enhanced image will not be as high as if scanning took place at the higher resolution. Use a lower resolution setting, or scan a smaller area.	-
	You have not specified a suitable value for the "B/W Threshold" setting. → If you are scanning with a TWAIN-compliant application, make sure that a suitable value is specified for the "B/W Threshold" setting. A larger threshold value makes your output darker, while a small threshold value makes it lighter. To adjust the threshold automatically, click the "Auto Threshold" button on the "Image" tab of the "Professional" screen.	_
	The brightness and contrast settings are not suitable. → If you are scanning with a TWAIN-compliant application and the resulting image has unsuitable brightness or contrast (for example it is too bright), click the "Auto Brightness/Contrast Adjustment" button on the "Colour" tab of the "Professional" screen. Click the "Brightness/Contrast" button to adjust the brightness and the contrast while viewing the scanned output image on the screen. If you are scanning with a WIA-compliant application or the "Scanner and Camera Wizard", click "Adjust the quality of the scanned picture" or the "Custom settings" button, and adjust the brightness and contrast in the screen that appears.	-
	The original is not placed face up in the RSPF or face down on the document glass. → Place the original face up in the RSPF or face down on the document glass.	15, 16
	The original was not placed in the correct position. → Place the original correctly.	15, 16

Problem	Cause and solution	Page
	If scanning is not possible, shut down your computer, turn off the machine's power switch, and unplug the machine's power cord. Next, start your computer, restore power to the machine, and try scanning again. If scanning is still not possible, check the following items.	-
	Your application is not TWAIN/WIA compliant. → If your application is not TWAIN/WIA compliant, scanning will not be possible. Make sure your application is TWAIN/WIA compliant.	_
Unable to scan the image.	You have not selected the scanner driver of the machine in your application. → Make sure that the machine's scanner driver is selected in your TWAIN/WIA-compliant application.	_
	You have not specified all scanning preferences appropriately. → Scanning a large area at high resolution results in a large amount of data and extended scanning times. The scanning preferences should be set appropriately for type of original to be scanned, i.e., Text, Text/Graphics, Photograph.	-
	There is not enough machine memory. → The scan resolution will vary depending on the scanning area and how much memory in the machine is free.	_

NETWORKING FAQ

The following FAQs will help you troubleshoot network problems.

Question	Answer	Page
I cannot search the machine using the software utility.	The firewall on your computer might prevent the computer from connecting to the machine. You need to configure the firewall settings to allow connection between them. • When using the configuration utility (Set the IP Address): If you cannot search the machine when using configuration utility "Set the IP Address", you need to disable the firewall during the setting. For information on disabling the firewall, refer to the manual or online help of your operating system or firewall software. • When using the connection utility (SC-Scan A): If you cannot search the machine when using the connection utility "SC-Scan A", you need to add SC-Scan A and UDP port number "19540" to the firewall exception list. For information on adding SC-Scan A and UDP port number "19540" to the firewall exception list, refer to the manual or online help of your operating system or firewall software.	1
How can I reconfigure the network settings of the machine?	If you need to reconfigure the network settings of the machine, follow the procedure below. 1 Reset the network settings of the machine to the factory default. For details on resetting the network settings of the machine, see "HOW TO MANUALLY RESET THE NETWORK SETTINGS OF THE MACHINE". 2. Set up the initial settings for the machine from the software utility on the accessory CD-ROM. For details, see the Start Guide.	103, Start Guide
What is a device server?	The device server allows you to use the scanner function of the machine over a network. Note that multiple computers cannot connect to the scanner function of the machine at the same time.	ı
What operating systems are supported?	Supported operating systems are Windows 2000, Windows XP and Windows Vista. TCP/IP needs to be available.	ı
What network interface is supported?	10BASE-T/100BASE-TX wired network interface is supported. Auto Negotiation is supported and the network is automatically detected by connecting the network cable.	Start Guide
What is the difference between a device server and print server?	The major difference is whether the connection to the scanner/printer function of the machine from the computers on the network is 1:1 basis (device server) or 1:n basis (print server). SC-Scan A establishes a connection to the scanner function and enables you to use it as if it was connected locally to your computer. Therefore, if the scanner function is accessed by a computer (in use by another user), the scanner function cannot be shared with other computers.	-

Question	Answer	Page
How can I know the MAC address (Ethernet address) of the machine?	The MAC address (Ethernet address) of the machine is printed on the sticker on the left side of the machine near the LAN connector.	-
What can I do by using the small push switch next to the LAN connector?	The push switch on the machine next to the LAN connector can initialise the network settings of the machine.	103
	Verify the physical connection. The machine and the computer you are using for the configuration need to be in the same network segment.	_
How can I configure an IP address?	 Verify the general configuration. Start the machine without an IP address (in the factory default settings). The IP address you configure needs to be a unique on the LAN. The IP address you configure on the machine needs to be in the same class of the computer's IP address you are using for the configuration. Example: If the computer's IP address is "192.168.0.xx", configure an IP address such as "192.168.0.10" that has not been assigned on another network device. For details on configuring the settings of the machine, see the Start Guide. 	Start Guide
What do I need to install the machine?	You need a shielded LAN cable. A shielded LAN cable is not provided with the machine.	-
	There may be defective equipment between the client computer running the configuration utility and the machine. Check if the green LED (10/100 BASE networking) of the machine is on (not blinking). If a problem is observed, there may be a defective cable or device. Change the power cable, network cable or the connected device and see if the problem continues.	-
Why can't I search the machine using the configuration utility (Set	The machine and the client computer running the configuration utility must be in the same segment. Be sure to setup both in the same segment when installing the machine in your environment for the first time.	-
the IP Address)?	The IP address of the machine and the client computer running the configuration utility must be in the same segment. • Verify the computer's network setting via Network properties, or using "ipconfig" command. • Be sure to assign an IP address for the machine and the computer within a same segment.	-
	The machine being installed may have the previous setting information. Initialise the network settings of the machine to the factory default, and conduct the configuration.	103, Start Guide

Question	Answer	Page
Why can't I search the machine using the configuration utility (Set the IP Address)?	 Check if there is any router or DHCP server that can assign IP addresses automatically. The automatic process may have assigned an IP address to the machine with which the network communication cannot be established with the computer. Configure IP addresses in the same local environment where the router or server does not exist when installing the machine for the first time. 	-
	Check if there is any security software function such as firewall in the computer. The security software function may be interrupting network communication with the machine. Disable the function to see if the problem continues. For information on disabling the function of the security software, refer to the manual or online help of the software.	-
	The network function of the machine has not activated yet. It takes approximately 30 seconds to boot the network function after powering on the machine. Wait 30 seconds and try the configuration again.	_
There may be defective equipment between the client computer running the configuration utility (Set the IP Address) and the machine.	 Check if the green LED (10/100 BASE networking) of the machine is on (not blinking). If a problem is observed, there may be a defective cable or device. Change the power cable, network cable or the connected device and see if the problem continues. 	-
	The machine and the client computer running the configuration utility must be in the same segment. Be sure to setup both in the same segment when installing the machine in your environment for the first time.	_
	Check if the computer running the configuration utility has an IP address assigned. • Verify the computer's network setting via Network properties, or using "ipconfig" command. • If the computer does not have an IP address, configure an IP address.	-
	The IP address of the machine and the client computer running the configuration utility must be in the same segment. • Verify the computer's network setting via Network properties, or using "ipconfig" command. • Be sure to assign an IP address for the machine and the computer within a same segment.	-
	Check if there is any router or DHCP server that can assign IP addresses automatically. The automatic process may have assigned an IP address to the machine with which the network communication cannot be established with the computer. Configure IP addresses in the same local environment where the router or server does not exist when installing the machine for the first time.	-
	The network settings of the machine are not the factory default. Initialise the network settings of the machine to the factory default and conduct the configuration.	103, Start Guide
Why does the installation of the driver software hang?	Resident software on the computer may affect the installation process. Terminate unnecessary resident software.	-

Question	Answer	Page
Why does the installation of the driver software hang?	You may be logging in as a non-admin user or using fast user switching. You need to log in as an administrator to install or configure the driver software. Also, fast user switching is not supported. If you are logging in as a non-admin user or using fast user switching, log off and log in again as an administrator.	-
The machine replies to ping, however it can not be seen on the network.	There may be a network device with the same IP address as the machine on the network, and the device that replied to ping may not be the machine. (Try "arp -a" command after executing ping command.) Check the IP address of each device on the network, then assign an IP address on the machine. • Example: In the list displayed after executing "arp -a" command, if the Ethernet address (Physical address) shown on the right side of the IP address (Internet address) is different from the machine's Ethernet address, another network device with the same IP address replied. • Example: If a device replied to ping even the LAN cable is disconnected from the machine, the device has the same IP address.	_
	Security software such as firewall may exclude the communication to the machine. Disable the security software such as firewall and verify again. For information on disabling the function of the security software, refer to the manual or online help of the software.	-
Why does the IP address change every time I turn on the machine?	In the environment the machine is operating, there may be a router or a server (DHCP server) with the function to assign an IP address. Check the DHCP server and try one of the following. • Verify the range of the IP address the DHCP server assigns, and assign a unique IP address that is out of the range. The IP address has to be in the same segment. The DHCP/BOOTP/RARP protocol of the machine needs to be disabled. Example: If the range of the IP address the DHCP server assigns is from 192.168.0.2 to 192.168.0.32, assign an IP address which has not been used in the network from the range between 192.168.0.33 and 192.168.0.254. When you assign an IP address, make sure that the same IP address has not been assigned on multiple devices. The DHCP server itself may have the IP address such as 192.168.0.1 or 192.168.0.254. Please verify. • Register the machine on DHCP server in order to assign a fixed IP address. (Refer to your DHCP server manual for how to configure.)	_
The network settings of the machine are initialised to the factory default every time the machine is booted.	The configuration of the machine may not have been completed properly. Typically the setup information is not properly registered if you canceled the setup while transferring the configuration data to the machine, and if you experienced a network stoppage problem during the setup. Please retry the setup procedure again.	Start Guide
Why can't I search the device (the scanner function) using SC-Scan A?	You need to add SC-Scan A and UDP port number "19540" to the firewall exception list. For information on adding SC-Scan A and UDP port number "19540" to the firewall exception list, refer to the manual or online help of your operating system or firewall software.	-

Question	Answer	Page
Why can't I connect to the device (the scanner function) using SC-Scan A?	You need to add SC-Scan A and UDP port number "19540" to the firewall exception list. For information on adding SC-Scan A and UDP port number "19540" to the firewall exception list, refer to the manual or online help of your operating system or firewall software.	-
How can I disable security software such as firewall?	The communication may be eliminated by firewall, etc. Disable the firewall function temporarily to verify if the communication is enabled. For information on disabling the firewall, refer to the manual or online help of your operating system or firewall software.	1
How can I add SC-Scan A and UDP port number "19540" to the firewall exception list?	If you use the machine from the client computer on which security software (such as firewall) is working, you need to add SC-Scan A and UDP port number "19540" to the firewall exception list. For information on adding SC-Scan A and UDP port number "19540" to the firewall exception list, refer to the manual or online help of your operating system or firewall software.	1
What is the default user name and password?	The user name is fixed to "admin" (without "). The default password is set to "admin" (without "). You can change the password from the Web page of the machine.	67
How can I change the IP address of the machine?	You can change the IP address of the machine via the Web page. If you forget the user name and password of the Web page of the machine, manually reset the network settings of the machine to the factory default and reconfigure it using the accessory CD-ROM. For details on manually resetting the network settings of the machine, see "HOW TO MANUALLY RESET THE NETWORK SETTINGS OF THE MACHINE". For details on initial setup of the machine, see the Start Guide.	60, 103, Start Guide
When I configure the machine via a Web browser, what user name and password can I use?	Typing the machine's IP address in the address field on a browser will display a page where you can see the status of the machine and configure the network settings of the machine. To configure the settings, a user name and password are required. The user name is fixed to "admin" (without "). The default password is set to "admin" (without "). You can change the password from the Web page of the machine.	60
How can I reset the network settings of the machine?	The settings can be reset by the push switch on the machine. For details, see "HOW TO MANUALLY RESET THE NETWORK SETTINGS OF THE MACHINE".	103

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
ŤŅ.	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	Steadily lit	Replacement of toner cartridge will be needed soon. Prepare a new cartridge.	_
••••	required indicator	Blinking	 Toner cartridge must be replaced. Replace it with a new one. Toner is being fed. 	98
┏	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
8∕∿	Misfeed indicator	Blinking	A paper misfeed has occurred. Remove the misfeed as explained in "MISFEED REMOVAL".	91
ORIGINA	AL 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 S	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: • Use the [PAPER SELECT] key (PAPER) to change the tray selection. • Open and close the tray. • Press the [CLEAR ALL] key (CA).	12
		Steadily lit	The front cover or the side cover is open. Close the front cover or the side cover.	_
[CH] appears in display Blinking		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.	98
Letters and numbers appear in the display		s appear	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 (Main code and sub code exists.) 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.	-
FUL "FUL" appears in the display			Data is being held in memory. Print the data or clear it from memory.	30, 32
When "U	Se close paper size" is	s disabled	Press the [PAPER SELECT] key (PAPER) 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.	36
Misfeed the optic paper fe	location indicator ligonal 2 x 250-sheet/25	hts up at 0-sheet	The side cover of the 2 x 250-sheet/250-sheet paper feed unit is open. Close the side cover.	-

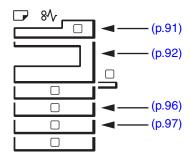
MISFEED REMOVAL

When a misfeed occurs, the misfeed indicator (%V) 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.

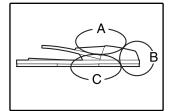


The paper may tear when you remove a misfeed. In this event, be sure to remove all torn pieces of paper from the machine, taking care not to touch the photoconductive drum (the green part). Any scratches or damage to the surface of the drum will cause dirty copies.



MISFEED IN THE RSPF

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.

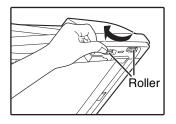
Section A

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



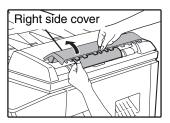
Section B

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



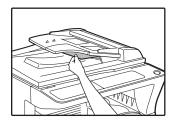


If a small original (A5 etc.) is misfed, open the right side cover and remove the original. Close the right side cover.



Section C

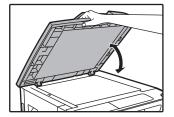
Remove the misfed original from the exit area.



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 RSPF to make the misfeed location indicator stop blinking.



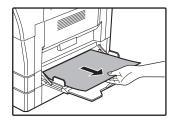
You can also make the misfeed indicator stop blinking by opening and closing the feeding roller cover or the right side cover.

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

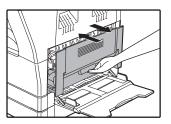
Copying will resume from the originals that still remained when the misfeed occurred.

MISFEED IN THE BYPASS TRAY

1 Gently pull the misfed paper out.



2 Open and close the side cover.



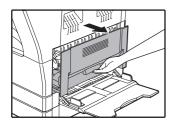
The misfeed indicator $(8\sqrt{})$ will go out.



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

MISFEED IN THE MACHINE

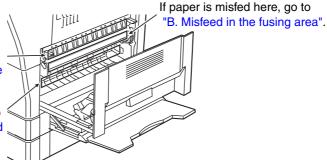
Open the bypass tray and the side cover.



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

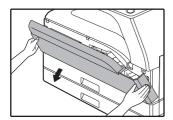
If the misfed paper is visible here, go to "C. Misfeed in the transport area".

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

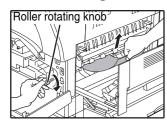


A. Misfeed in the paper feed area

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



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



misfed paper during removal.

Be careful not to tear the

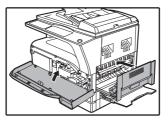
♠Warning

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.

Close the front cover and side cover.



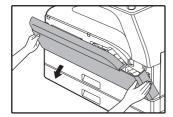
The misfeed indicator $(8\sqrt{r})$ will go out.



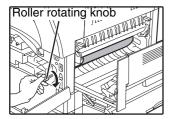
- When closing the front cover, gently hold both ends.
- When closing the side cover, press on the
- If the misfeed indicator ($\$ /_{\mathcal{C}}$) does not stop blinking, check for torn pieces of paper in the machine.

B. Misfeed in the fusing area

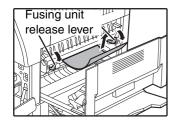
Push gently on both ends of the front cover and open it.



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



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.

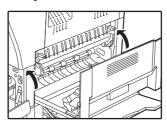


The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.

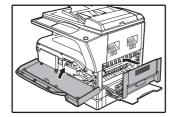


- Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
- Be careful about unfixed toner on the misfed paper not to soil your hands or clothes.

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



5 Close the front cover and side cover.



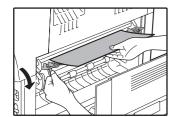
The misfeed indicator $(8/\sqrt{})$ will go out.



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

C. Misfeed in the transport area

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

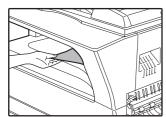


Be careful not to tear the misfed paper during removal.



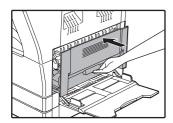
The fusing unit is hot. Do not touch the fusing unit when removing misfed paper. Doing so may cause a burn or injury.

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 $(8\sqrt{})$ will go out.



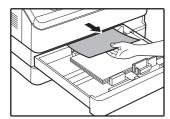
- When closing the side cover, press on the handle.
- If the paper was torn, make sure that no torn pieces remain in the machine.
- If the misfeed indicator (8\(\frac{1}{2}\)) does not stop blinking, check for torn pieces of paper in the machine.

MISFEED IN THE UPPER PAPER TRAY



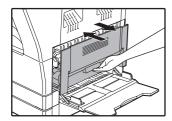
Make sure that there is no misfed paper in the tray before pulling it out. (p.93)

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.

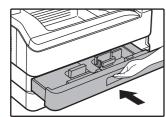


The misfeed indicator (8%) will go out.



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

3 Close the upper paper tray.



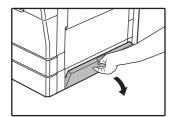
Push the upper paper tray in completely.

MISFEED IN THE LOWER PAPER TRAY



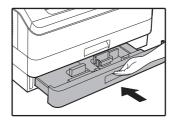
- Make sure that there is no misfed paper in the tray before pulling it out. (p.93)
- Use the following procedure to remove misfeeds that occur in the 250-sheet paper feed unit/2 x 250-sheet paper feed unit.

1 Open the lower side cover.

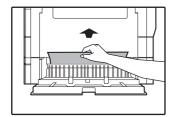


Grasp the handle to open the lower side cover.

5 Close the lower paper tray.

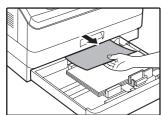


2 Remove the misfed paper.



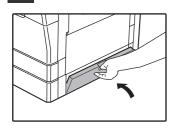
Be careful not to tear the misfed paper during removal.

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 $(\$ \ \)$ will go out.



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

REPLACING THE TONER CARTRIDGE

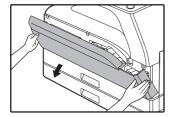
When the toner cartridge replacement required indicator (•••) lights up, the toner cartridge will need replacement soon. Obtain a new cartridge. When the toner cartridge replacement required indicator (•••) blinks, the toner cartridge must be replaced before copying can be resumed.

Replace the toner cartridge by following the procedure below.

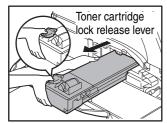


When the toner cartridge replacement indicator (🚣) lights up, little toner remains and thus copies may be faint.

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



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

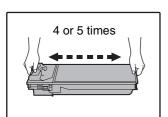


When pulling out the toner cartridge, place your other hand on the indentation of the cartridge.

! 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.

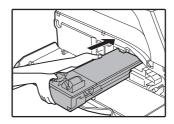
Remove the new toner cartridge from the bag. Grasp the cartridge on both sides and shake it horizontally four or five times.



! Caution

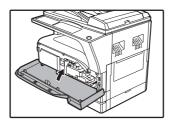
Grasp the grip when holding the cartridge.

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.

Chapter 7 ROUTINE MAINTENANCE

This chapter explains how to keep the machine operating smoothly, including viewing copy count/scan count/the toner level indicator, cleaning the machine and resetting the network settings of 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, total copy count, and total scan count as explained below.

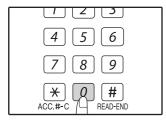
When "Auditing mode" is "OFF":

From the " 0" display, you can check the total output count, total copy count, and total scan 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.

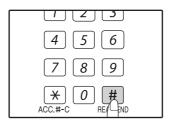
Example: Total number of pages output is 12,345.





- 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.

[Total copy count] Hold down the [READ-END] key (#).



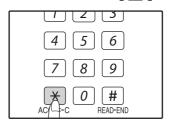
The total copy count appears in the display while you hold down the key.

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.

[Total scan count] Hold down the [*] key.



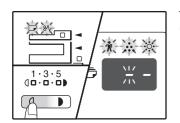
The total scan count appears in the display while you hold down the key.

The count display and counting method are the same as for the total output count.

CHECKING THE TONER LEVEL

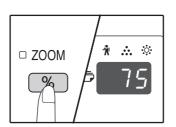
The toner level is indicated by a 6-level display. Use it as a guideline for replacing the toner cartridge.

Hold down the [Light] key (ⓓ) until the alarm indicators (ਐ,♣,♦,□,৪♦) blink.



The display will show "- -".

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.

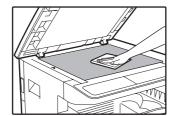
Press the [Light] key (() to return to the normal display.

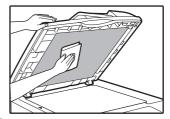
The alarm indicators $(\mathring{\eta}, \overset{\bullet}{, \cdot}, \overset{\bullet}{, \cdot}, \overset{\bullet}{, \cdot}, \overset{\bullet}{, \cdot})$ go off. The display returns to the number of copies display.

ROUTINE MAINTENANCE

CLEANING THE DOCUMENT GLASS AND RSPF/DOCUMENT COVER

If the document glass, underside of the document cover/RSPF, or the scanner for originals coming from the RSPF (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/RSPF will also be copied. Wipe the document glass, underside of the document cover/RSPF 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 RSPF IS INSTALLED)

If white or black lines appear in copies made with using the RSPF, use the provided glass cleaner to clean the original scanning glass. (If white or black lines appear in copies or printed pages when the RSPF is not used, see "CLEANING THE TRANSFER CHARGER" (p.102).

Example of dirty print image

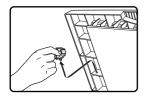




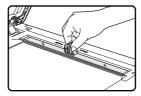
Black lines

White lines

1 Open the RSPF and take out the glass cleaner.



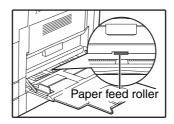
Clean the original scanning glass with the glass cleaner.



Return the glass cleaner to its original position.

CLEANING THE BYPASS TRAY PAPER FEED ROLLER

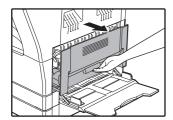
If misfeeds occur frequently when feeding envelopes, thick paper, etc. through the bypass tray, wipe the paper feed roller at the feed slot of the bypass tray with a soft, clean cloth dampened with alcohol or water.



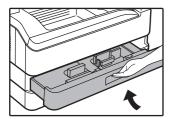
CLEANING THE TRANSFER CHARGER

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

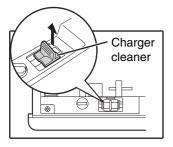
- 1 Turn the power switch off.
- 2 Open the bypass tray and the side cover.



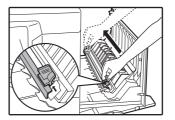
3 Lift and pull out the upper paper tray.



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



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.



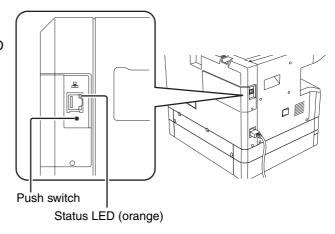
Slide the charger cleaner from one end to the other end along the groove of the transfer charger. If the cleaner is stopped on the way, smudges on copies may occur.

- 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.

HOW TO MANUALLY RESET THE NETWORK SETTINGS OF THE MACHINE

Turn off the machine's power switch.

Turn on the power while holding down the push switch. Continue to hold down the push switch until the status LED lights up.





- Scanning settings will remain even after the network settings of the machine are reset to the factory default.
- Do not turn off the machine while resetting the network settings to the factory default.
- Do not press the push switch when the machine is turned on again after the network settings are reset to the factory default.

Chapter 8 PERIPHERAL DEVICES AND SUPPLIES

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-5516N



Options that can be installed on both models









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.

REVERSING SINGLE PASS FEEDER

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

Specifications

		AR-RP10 (Reversing single pass feeder)	
	Weight	56 g/m ² to 90 g/m ²	
Acceptable	Size	A5 to A3	
original	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		Approx. 5.4 kg	
Dimer	Dimensions 586 mm (W) x 440 mm (D) x 132 mm (H)		

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

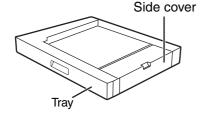
These paper feed units provide the convenience of increased paper capacity for the copier and a greater choice of paper sizes readily available for copying.

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

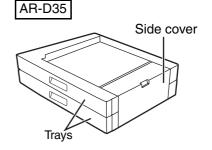
Part names

250-sheet paper feed unit

AR-D34



2 x 250-sheet paper feed unit



Specifications

	AR-D34	AR-D35	
Paper size	B5 to A3		
Paper capacity	One tray with capacity for 250 sheets of 90 g/m ² bond paper	Two trays with capacity for 250 sheets of 90 g/m ² bond paper	
Paper weight	56 g/m ² to 90 g/m ²		
Power supply	Drawn from the machine		
Dimensions	590 mm (W) x 478 mm (D) x 96 mm (H)	590 mm (W) x 478 mm (D) x 182 mm (H)	
Weight	Approx. 4.9 kg	Approx. 9.7 kg	

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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