olivetti

MODEL

d-Copia 16W
d-Copia 20W

DIGITAL MULTIFUNCTIONAL SYSTEM

OPERATION MANUAL

d-Copia 16W

d-Copia 20W

May 2005

The C€ mark affixed to the product certifies that the product satisfies the basic quality requirements.

C€

The manufacturer reserves the right to carry out modifications to the product described in this manual at any time and without any notice.

ENERGY STAR is a U.S. registered mark.

The ENERGY STAR program is an energy reduction plan introduced by theUnited States Environmental Protection Agency in response to environmental issues and for the purpose of advancing the development and utilization of more energy efficient office equipment.

Your attention is drawn to the following actions which could compromise the conformity attested to above, as well as the characteristics of the product:

• incorrect electrical power supply;

• incorrect installation, incorrect or improper use or use not in compliance with the warnings provided in the User's Manual supplied with the product;

• replacement of original components or accessories with others of a type not approved by the manufacturer, or performed by unauthorised personnel.

Do not make copies of anything which is prohibited from copying by law. The following items are normally prohibited from copying by national law. Other items may be prohibited by local law.

● **Money** ● **Stamps** ● **Bonds** ● **Stocks** ● **Bank drafts**

● **Checks** ● **Passports** ● **Driver's licenses**

In some areas, the "POWER" switch positions are marked "I" and "○" on the copier instead of "ON" and "OFF".
If your copier is so marked, please read "I" for "ON" and "○" for "OFF".
Caution!
For a complete electrical disconnection, pull out the main plug.
The socket-outlet shall be installed near the equipment and shall be easily accessible.

Warning

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

DIRECTIVE 2002/96/CE ON THE TREATMENT, COLLECTION, RECYCLING AND DISPOSAL OF ELECTRIC AND ELECTRONIC DEVICES AND THEIR COMPONENTS

1. FOR COUNTRIES IN THE EUROPEAN UNION (EU)

The disposal of electric and electronic devices as solid urban waste is strictly prohibited: it must be collected separately. The dumping of these devices at unequipped and unauthorized places may have hazardous effects on health and the environment.

Offenders will be subjected to the penalties and measures laid down by the law.

TO DISPOSE OF OUR DEVICES CORRECTLY:

a) Contact the Local Authorities, who will give you the practical information you need and the instructions for handling the waste correctly, for example: location and times of the waste collection centres, etc.

b) When you purchase a new device of ours, give a used device similar to the one purchased to our dealer for disposal.

The crossed dustbin symbol on the device means that:

- When it to be disposed of, the device is to be taken to the equipped waste collection centres and is to be handled separately from urban waste;
- Olivetti guarantees the activation of the treatment, collection, recycling and disposal procedures in accordance with Directive 2002/96/CE (and subsequent amendments).

2. FOR OTHER COUNTRIES (NOT IN THE EU)

The treatment, collection, recycling and disposal of electric and electronic devices will be carried out in accordance with the laws in force in the country in question.

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2 COPY FUNCTIONS

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CAUTIONS

Follow the cautions below when using this machine.

CAUTIONS ON USING

⚠ Warning:

- The fusing area is hot. Exercise care in this area when removing misfed paper.
- Do not look directly at the light source. Doing so may damage your eyes.

ⓘ Caution:

- Do not switch the machine rapidly on and off. After turning the machine off, wait 10 to 15 seconds before turning it back on.
- Machine power must be turned off before installing any supplies.
- Place the machine on a firm, level surface.
- Do not install the machine in a humid or dusty location.
- When the machine is not used for a long time, for example, during prolonged holidays, turn the power switch off and remove the power cord from the outlet.
- When moving the machine, be sure to turn the power switch off and remove the power cord from the outlet.
- Do not cover the machine with a dust cover, cloth or plastic film while the power is on. Doing so may prevent heat dissipation, damaging the machine.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser radiation exposure.
- The socket-outlet should be installed near the machine and should be easily accessible.

IMPORTANT POINTS WHEN SELECTING AN INSTALLATION SITE

Improper installation may damage the machine. Please note the following during initial installation and whenever the machine is moved.

ⓘ Caution	If the machine is moved from a cool place to a warm place, condensation may form inside the machine. Operation in this condition will cause poor copy quality and malfunctions. Leave the machine at room temperature for at least 2 hours before use.

Do not install your machine in areas that are:

- **damp, humid, or very dusty**

- **exposed to direct sunlight**
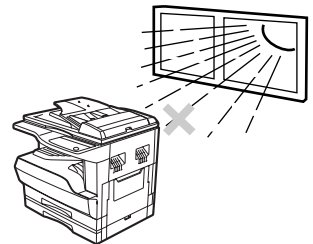
- **poorly ventilated**
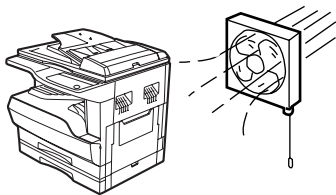
- **subject to extreme temperature or humidity changes, e.g., near an air conditioner or heater.**
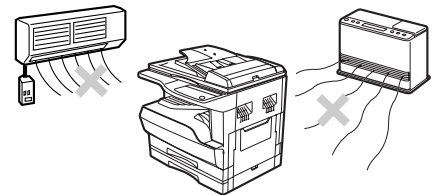
The machine should be installed near an accessible power outlet for easy connection and disconnection.

Be sure to connect the power cord only to a power outlet that meets the specified voltage and current requirements. Also make certain the outlet is properly grounded.

Note Connect the machine to a power outlet which is not used for other electric appliances. If a lighting fixture is connected to the same outlet, the light may flicker.

Be sure to allow the required space around the machine for servicing and proper ventilation.

20 cm (8")

20 cm (8")   20 cm (8")

CAUTIONS ON HANDLING

Be careful in handling the machine as follows to maintain the performance of this machine.
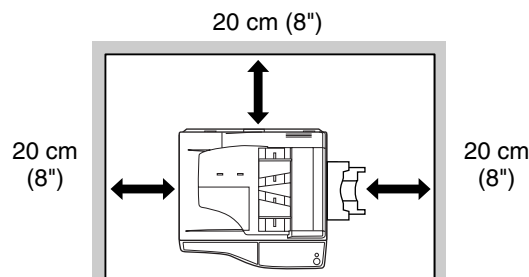
Do not drop the machine, subject it to shock or strike it against any object.

Store spare toner cartridges in a cool dry place without removing from the package before use.

• If they are exposed to direct sunlight or excessive heat, poor copies may result.

Do not touch the photoconductive drum (green portion).

• Scratches or smudges on the drum will cause dirty copies.

CAUTIONS ON LASER

Wave length	785 nm + 10 nm/- 15 nm
Pulse times	(8.141 μs ± 0.1 μs)/7 mm
Output power	0.14 mW – 0.22 mW

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ENVIRONMENTAL INFORMATION

As an ENERGY STAR® Partner, OLIVETTI has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

USING THE MANUAL

This machine has been designed to provide convenient copying features in a minimum amount of office space and with maximum operational ease. To get full use of all machine features, be sure to familiarise yourself with this manual and the machine. For quick reference during machine use, keep this manual in a handy location.

ABOUT THE OPERATION MANUALS

The operation manuals for the machine are as follows:

Operation Manual (Digital Multifunctional System) (this manual)

This manual contains explanations of the product and procedures for using the machine as a copier.

Online Manual (on the accessory CD-ROM)

This manual explains the procedures for using the machine as a printer.

Software Setup Guide (separate manual)

This manual contains instructions for installing the software that allows the machine to be used with your computer and procedures for establishing initial printer settings.

THE MEANING OF "R" IN ORIGINAL AND PAPER SIZE INDICATIONS

An "R" appearing at the end of an original or paper size (B5R, A4R (5-1/2" x 8-1/2"R, 8-1/2" x 11"R), etc.) indicates that the original or paper is oriented horizontally as shown below.

<Horizontal (Landscape) orientation>
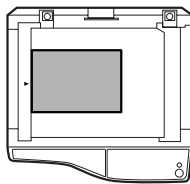
Sizes that can be placed only in the horizontal (landscape) orientation (B4, A3 (8-1/2" x 14", 11" x 17")) do not contain the "R" in their size indication.

CONVENTIONS USED IN THIS MANUAL

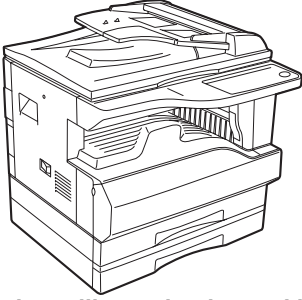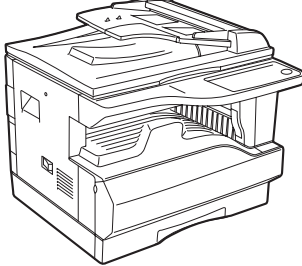| ⚠️Warning	Warns the user that injury may result if the contents of the warning are not properly followed.
⚠️Caution	Cautions the user that damage to the machine or one of its components may result if the contents of the caution are not properly followed.
✎Note	Notes provide information relevant to the machine regarding specifications, functions, performance, operation and such, that may be useful to the user.

SPF

This operation manual refers to the Single Pass Feeder as the "SPF".

DIFFERENCES BETWEEN MODELS

This manual covers the following models.

Model	d-Copia 20W	d-Copia 16W
Appearance	(With optional SPF installed) **The above illustration is used in instances where a function and/ or the operation of the machine is the same on both models.**	(With optional SPF installed)
Copy speed	20CPM	16CPM
Paper trays	Two (250 x 2)	One (250 x 1)

AB series (metric) and inch series references

Both specifications are quoted where applicable.

For example:
Page 15, step 1 ....B4 and A3 (8-1/2" x 14" and 11" x 17")
Page 60 ....50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200% (50%, 64%, 77%, 95%, 100%, 121%, 129%, 141%, 200%)

A3
A4
A4
A5
B4
EXTRA

[AB series]

11✕17
8½✕14
8½✕11
8½✕5½
8½✕11
8½✕13
EXTRA

[Inch series]

Although AB series size indications are shown on the operation panel of this manual, inch series indications are displayed on the inch series machines.

MAIN FEATURES

High-speed laser copying

- First-copy time*[1] at 300 dpi*[2] is only 7.2 seconds .
- Copying speed is 20/16 copies per minute. This is ideal for business use and provides a big boost to workplace productivity.
  *[1] First-Copy time may vary depending on the power-supply voltage, ambient temperature, and other operating conditions.
  *[2] "dpi" ("dots per inch") is unit that is used to measure resolution. Resolution indicates how much detail can be reproduced in a printed or scanned image.

High-quality digital image

- High-quality copying at 600 dpi is performed.
- In addition to automatic exposure adjustment, two original modes can be selected: "TEXT" for text-only originals, and "PHOTO" for photographs. The exposure can be adjusted to five levels in each mode.
- The photo mode copying function allows clear copying of delicate halftone original images such as monochrome photos and colour photos.

Enhanced copying features

- Zoom copies can be made from 25% to 400% in 1% increments.
  (When the SPF is being used, the zoom copy ratio range is 50% to 200%.)
- Continuous copying of up to 999 copies is possible. (Can be changed to a maximum of 99 copies in the user programs.)
- The user programs allow customised machine settings and management. Access to the machine can be controlled by enabling audit mode.

Scan once/Print many

- The machine is equipped with a memory buffer allowing the machine to scan an original once and make up to 999 copies of the scanned image. This improves workflow, reduces operating noise from the machine and reduces wear and tear on the scanning mechanism, which provides for a higher reliability.

Laser printer function

- The accompanying printer driver can be installed to enable use of the machine as a printer. (See the accompanying Software Setup Guide.)

Environment and people friendly design

- Preheat and auto power shut-off modes are provided to reduce power consumption when the machine is not in use.
- A universal design has been implemented in the product whereby the height of the operation panel and shape of the keys are designed to be usable by as many people as possible.

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

PART NAMES AND FUNCTIONS
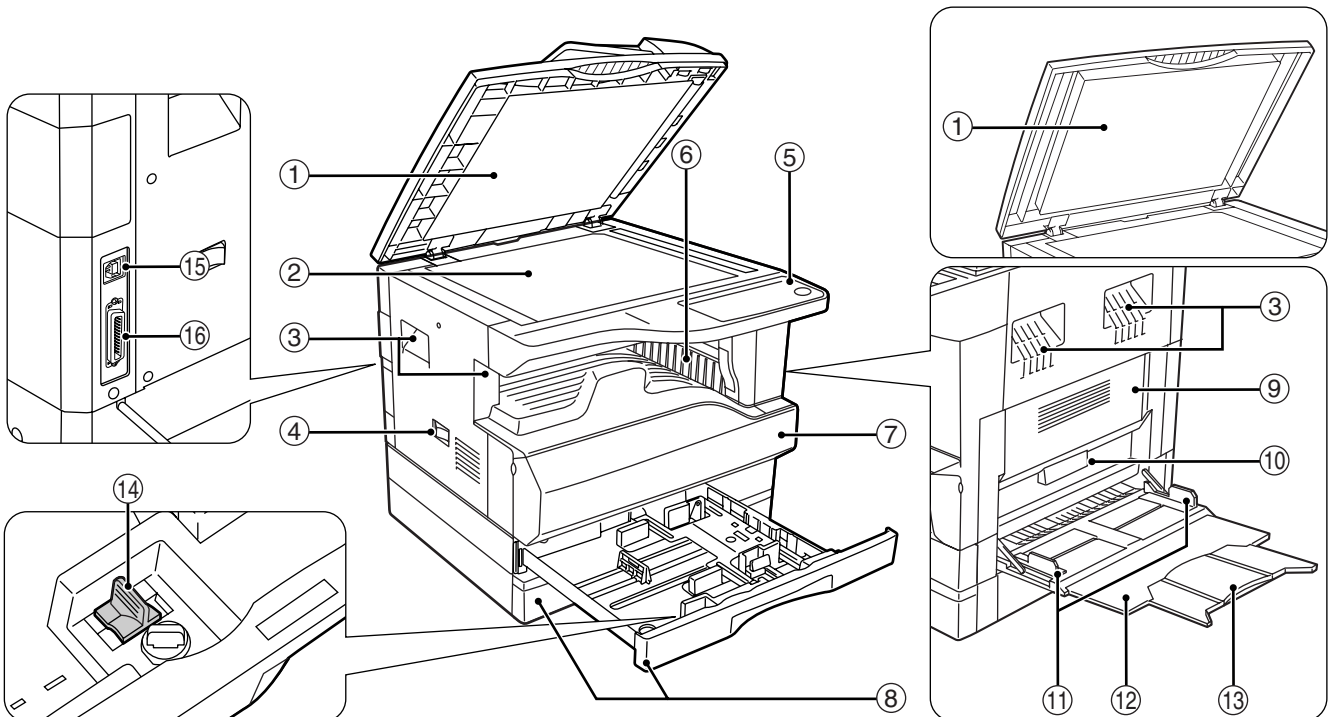
① **Document feeder cover (when the SPF is installed) /document cover**

Open to make copies from the document glass. (p.18)

② **Document glass**

Place an original that you wish to scan face down here. (p.18)

③ **Handles**

Use to move the machine.

④ **Power switch**

Press to turn the machine power on and off. (p.12)

⑤ **Operation panel**

Contains operation keys and indicator lights. (p.10)

⑥ **Paper output tray**

Copies and prints are deposited to this tray.

⑦ **Front cover**

Open to remove paper misfeeds and perform machine maintenance. (p.50, p.54)

⑧ **Paper trays**

Each tray holds 250 sheets of paper. (p.14)

⑨ **Side cover**

Open to remove paper misfeeds and perform machine maintenance. (p.48, p.57)

⑩ **Side cover handle**

Pull to open the side cover. (p.48)

⑪ **Bypass tray guides**

Adjust to the width of the paper. (p.15)

⑫ **Bypass tray**

Paper including special paper (such as transparency film) can be fed from the bypass tray. (p.15, p.26)

⑬ **Bypass tray extension**

Pull out when feeding large paper such as B4 and A3 (8-1/2" x 14" and 11" x 17"). (p.15)

⑭ **Charger cleaner**

Use to clean the transfer charger. (p.57)

⑮ **USB 1.1 connector**

Connect to your computer to use the printer functions. (Software Setup Guide)

1
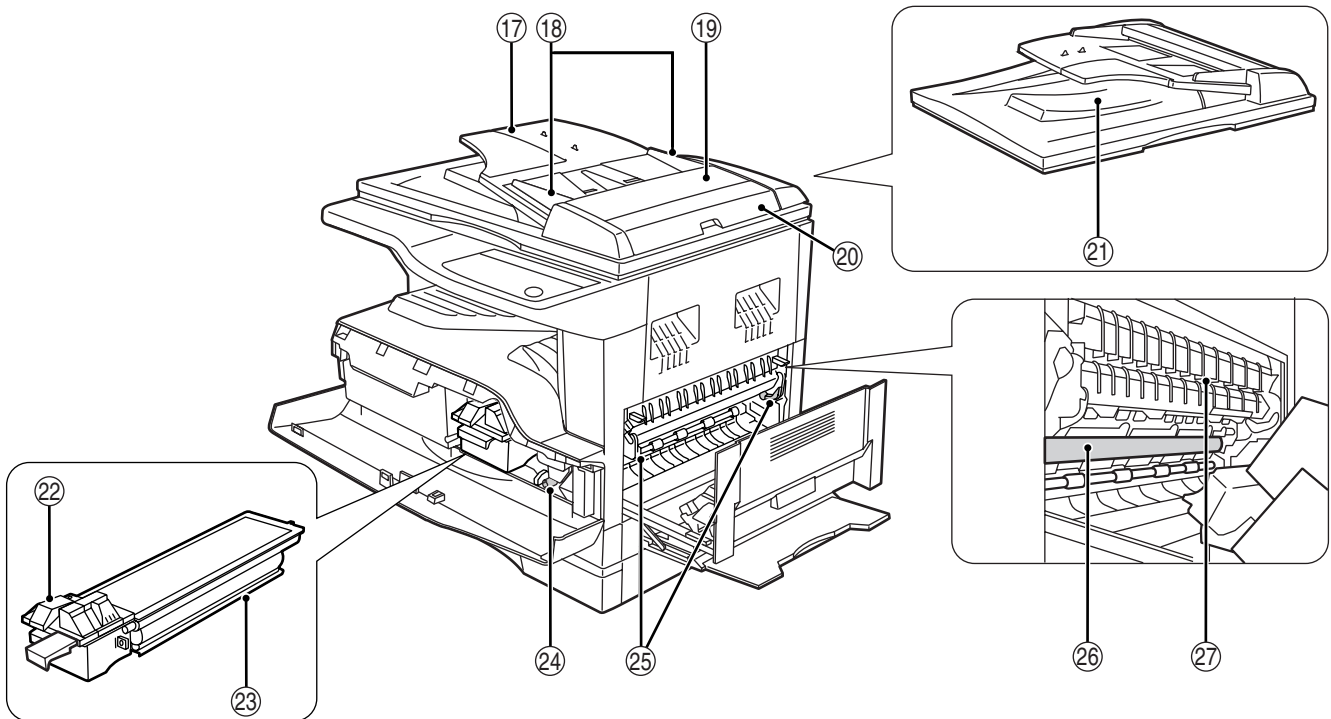
⑯ **Parallel connector**

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

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

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

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

Adjust to the size of the originals.

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

Open to remove misfed originals. (p.47)

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

Open to remove misfed originals. (p.47)

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

Originals exit the machine here after copying.

㉒ **Toner cartridge lock release lever**

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

㉓ **Toner cartridge**

Contains toner. (p.54)

㉔ **Roller rotating knob**

Turn to remove misfed paper. (p.49, p.50)

㉕ **Fusing unit release levers**

To remove a paper misfeed from the fusing unit, push down on these levers and remove the paper. (p.50)

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

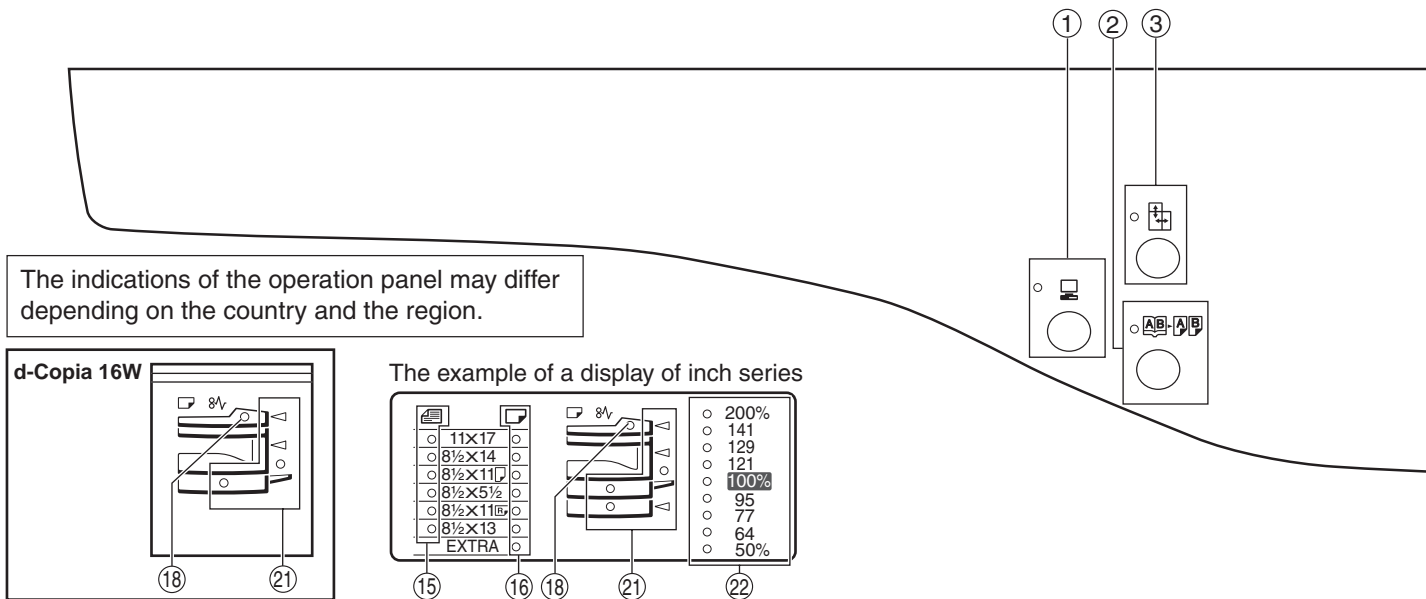㉖ **Photoconductive drum**

Copy images are formed on the photoconductive drum.

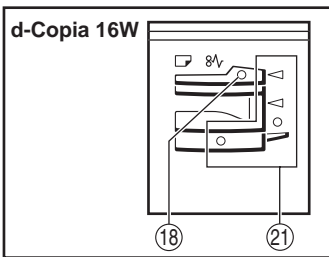㉗ **Fusing unit paper guide**

Open to remove misfed paper.

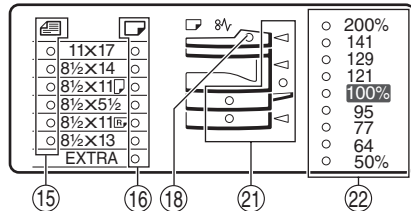| 📝 Note	The model name can be seen on the machines front cover.

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OPERATION PANEL

① ② ③

The indications of the operation panel may differ depending on the country and the region.

d-Copia 16W

The example of a display of inch series

200%
141
129
121
100%
95
77
64
50%

11X17
8½X14
8½X11
8½X5½
8½X11
8½X13
EXTRA

⑱ ㉑ ⑮ ⑯ ⑱ ㉑ ㉒

① **ON LINE key (⬚) / indicator**

Press to toggle the machine between online and off-line. The indicator lights up when the machine is online, and goes off when the machine is off-line. The indicator blinks while the machine is receiving print data and while printing is paused. (p.29)

② **DUAL PAGE COPY key (⬚) / indicator**

Use to make individual copies of the two pages of an open book or other two-page original. (p.27)

③ **XY-ZOOM key (⬚) / indicator**

Press to change the horizontal and vertical copy ratios independently. (p.24)

④ **AUTO/TEXT/PHOTO key (AUTO /⬚/⬚) / indicators**

Use to select the exposure mode: "AUTO", "TEXT", or "PHOTO". (p.21)

⑤ **AUDIT CLEAR key (ACC.#-C)**

Closes an open account. (p.39)

⑥ **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.20)

⑦ **Alarm indicators**

[⬚] Maintenance indicator (p.46)

[⬚] Toner cartridge replacement required indicator (p.46)

[⬚] Developer replacement required indicator (p.46)

[⬚] Paper required indicator (p.46)

[⬚] Misfeed indicator (p.46)

⑧ **POWER SAVE indicator (⬚)**

Lights up when the machine is in a power save mode. (p.12)

⑨ **Display**

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

⑩ **Copy ratio display key (⬚)**

Hold down when the machine is not in use to display the copy ratio in the display. (p.24)

⑪ **ZOOM indicator**

Lights up when a zoom ratio is set. (p.24)

⑫ **Zoom keys (⬚, ⬚)**

Use to select any reduction or enlargement copy ratio from 25% to 400% in increments of 1%. (p.24)

⑬ **INTERRUPT key (⬚) / indicator**

Interrupts a copy run. (p.28)

⑭ **Light and Dark keys (⬚, ⬚) / indicators**

Use to adjust the TEXT or PHOTO exposure level. (p.21)

⑮ **ORIGINAL SIZE ENTER key (⬚ENTER) / ORIGINAL SIZE indicators**

Use to enter the original size. (p.16) The selected original size will light up.

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1

(Two-tray model only)

Not used for this machine.

⑯ **PAPER SIZE indicators**
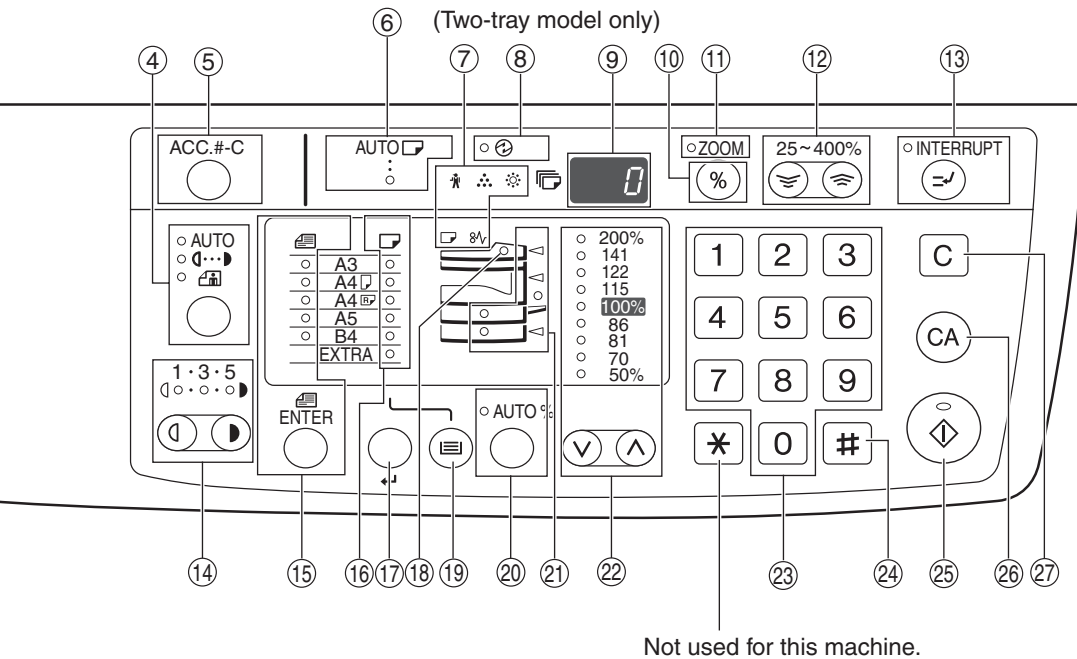
Light up to show the selected copy paper size. (p.16)

⑰ **PAPER SIZE ENTER key (↵)**

Use to set the paper size in the paper trays. (p.16)

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

Lights up when originals are set in the document feeder tray. (p.19)

⑲ **TRAY SELECT key (▤)**

Use to manually select a paper tray. (p.21)

⑳ **AUTO IMAGE key (** AUTO % **) / indicator**

Press for automatic copy ratio selection. (p.22)

㉑ **Paper feed location / misfeed location indicators**

The selected paper feed location is shown by a lit indicator (◯). (p.18)

The general location of misfed paper is shown by a blinking red indicator (◀). (p.47)

㉒ **PRESET RATIO selector keys (⋁, ⋀) / indicators**

Use to select preset reduction/enlargement copy ratios. (p.23)

㉓ **Numeric keys**

Use to select the desired copy quantity or to make user program entries. (p.22)

To display the total number of pages output by the machine, hold the [0] key down. (p.55)

㉔ **[#] key**

Use to check the total number of copies made. (p.55)

㉕ **START key (◈) /indicator**

Press to make a copy (p.18). Also press to exit "Auto power shut-off" mode and to set a user program. Copying is possible when the indicator is on.

㉖ **CLEAR ALL key (ⓒⓐ)**

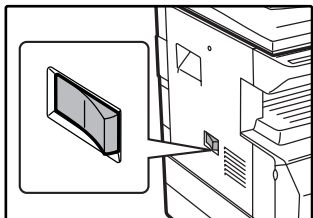Clears all selected settings and returns the machine to the initial settings. (p.12)

㉗ **CLEAR key (Ⓒ)**

Clears the copy quantity display or terminates a copy run.

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POWER ON AND OFF

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

POWER ON

**Turn the power switch to the "ON" position.**

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

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

POWER OFF

Make sure that the machine is not in operation and then turn the power switch to the "OFF" position.
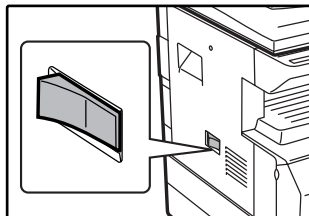
If the power switch is turned off while the machine is in operation, a misfeed may occur and the job that was in progress will be cancelled.

Check the following to make sure the machine is not in operation:
- The START indicator is lit. (Initial state)
- The POWER SAVE indicator (⟳) is lit. ("Preheat mode" or "Auto power shut-off" mode)

> **Note**
> - The machine reverts to the initial settings when it is first turned on, when the [CLEAR ALL] key (ⓒⒶ) is pressed, or when no keys are pressed for the preset "Auto clear" time following the end of a copy job. When the machine reverts to the initial settings, all settings and functions selected to that point are cancelled. The "Auto clear" time can be changed in the user settings. (p.33)
> - 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 user programs. (p.33)

Power Save Modes

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

Preheat mode

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

Auto power shut-off mode

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

> **Note**
> The preheat activation time and the "Auto power shut-off timer" can be changed using user programs. It is suggested that you set times that are appropriate for your usage of the machine. (p.33)

Initial settings

The machine assumes the initial settings when it is first turned on, when the [CLEAR ALL] key (ⓒⒶ) is pressed, and approximately one minute after the last copy is made in any mode.
Copy ratio: 100%, **Exposure**: Automatic
Copy quantity: 0, **All special copier modes**: Off
Auto paper selection: On, **Paper feed station**: The tray selected in the "Default tray setting" in the user programs. (p.34)

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 OLIVETTI recommended paper.

Paper tray type	Paper type	Size	Weight	Capacity
Paper tray	Standard paper Recycled paper	A5*1 B5 A4 B4 A3 (5-1/2" x 8-1/2"*1 (Invoice)) (8-1/2" x 11" (Letter)) (8-1/2" x 13" (Foolscap)) (8-1/2" x 14" (Legal)) (11" x 17" (Ledger))	56 g/m^2 to 90 g/m^2 *2 (15 lbs. to 24 lbs. *2)	250 sheets (Load paper lower than the line on the tray)
Bypass tray	Standard paper Recycled paper	A6R to A3 (5-1/2" x 8-1/2" (Invoice) to 11" x 17" (Ledger))	56 g/m^2 to 80 g/m^2 (15 lbs. to 20 lbs.)	100 sheets *3
	Thick paper		Max. 200 g/m^2 (54 lbs.)	Load one sheet of these papers at a time to the bypass tray.
	Transparency film Labels			
	Envelopes	International DL (110 mm x 220 mm) International C5 (162 mm x 229 mm) Commercial 9 (3-7/8" x 8-7/8") Commercial 10 (4-1/8" x 9-1/2")		5 sheets

*1 A5 (5-1/2" x 8-1/2") can be used in the upper paper tray but cannot be used in other trays.

*2 When making a large number of copies or prints using 90 g/m^2 (24 lbs.) 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.

Special papers

Follow these guidelines when using special papers.

● **Use OLIVETTI recommended transparency film and label sheets. Using other than OLIVETTI recommended paper may result in misfeeds or smudges on the output. If other than OLIVETTI 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 OLIVETTI recommended paper, make a test copy to see if the paper is suitable.**
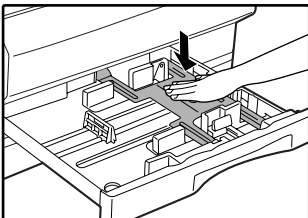
LOADING PAPER

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

Loading the paper tray

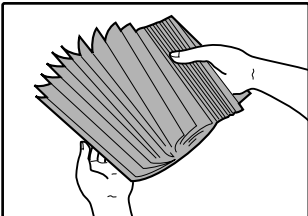**1** **Gently lift and pull out the paper tray until it stops.**
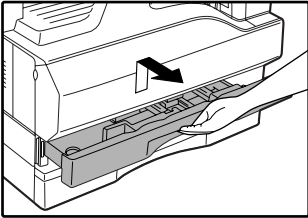
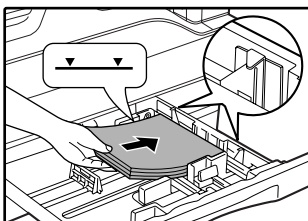**2** **Push the pressure plate down until it locks in place.**

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

3 **Fan the paper.**

If the paper is not fanned, double-feeds or misfeeds may occur.

4 **Load paper into the tray.**

> *Note*
> • Do not load paper higher than the line on the tray (up to 250 sheets).
> • Make sure that the paper fits under the tabs on the right side of the tray.
> • Make sure the stack of paper is straight before loading it. When adding paper, take the remaining paper out and combine it into a single stack with the new paper.

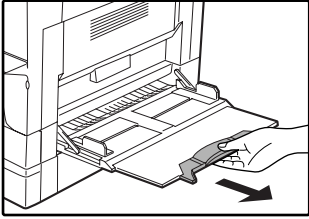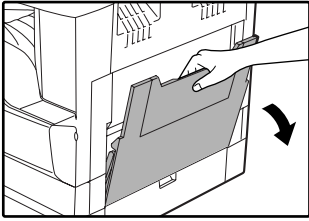**5** **Gently push the paper tray into the machine.**
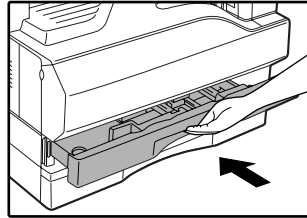
> *Note*
> If you loaded a different size of paper than was loaded previously in the tray, go to "CHANGING A TRAY'S PAPER SIZE SETTING" (p.16).
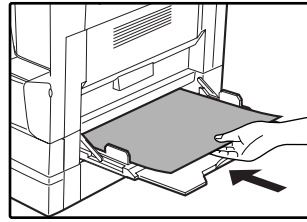
Loading the bypass tray

1 **Unfold the bypass tray.**

When feeding large paper such as B4 and A3 (8-1/2" x 14" and 11" x 17"), pull out the bypass tray extension.

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

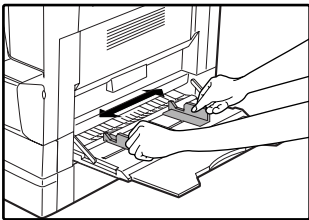**3** **Insert the paper (print face down) all the way into the bypass tray.**

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

Note If you loaded paper in the bypass tray, press the [TRAY SELECT] key (⊜) to select the bypass tray. The bypass tray will not be selected automatically.

1

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, A5 or 5-1/2" x 8-1/2" size paper or envelopes horizontally as shown in the following diagram (▭).

Available   Not available
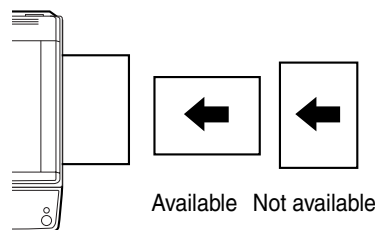
- When loading envelopes, make sure that they are straight and flat and do not have loosely glued construction flaps (not the closure flap).
- Special papers except OLIVETTI recommended transparency film, labels, and envelopes must be fed one sheet at a time through the bypass tray.
- When adding paper, 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

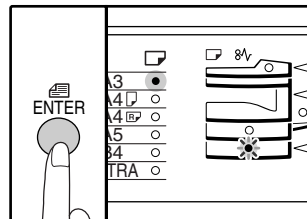Follow these steps to change a tray's paper size setting.

> *Note*
> - 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 (5-1/2" x 8-1/2") size paper can only be selected in upper paper tray.
> - Do not load paper that is a different size than the paper size setting. Copying will not be possible.

1 **Hold down the [PAPER SIZE ENTER] key (↵) for more than 5 seconds to set the selected paper size.**
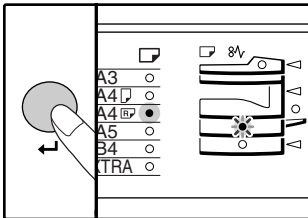
The currently selected paper feed location indicator will blink and the corresponding paper size (which is currently set) indicator will light steadily. All other indicators will go out.

2 **If the machine has two paper trays, use the [TRAY SELECT] key (▤) to select the paper tray for which you wish to change the paper size setting.**
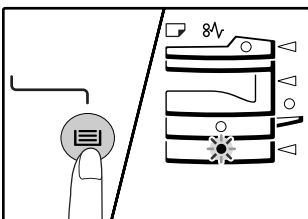
Each time the [TRAY SELECT] key (▤) is pressed, a paper tray will be indicated with a blinking paper feed location indicator.

3 **Use the [ORIGINAL SIZE ENTER] key (ENTER) to select the paper size.**

The indicator of the selected paper size lights up.

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**4** **Squeeze the lock lever of the front guide and slide the front guide to match the width of the paper, and move the left guide to the appropriate slot as marked on the tray.**
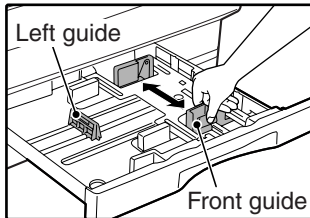
- The front guide is a slide-type guide. Grasp the locking knob on the guide and slide the guide to the indicator line of the paper to be loaded.
- The left guide is an insert-type guide. Remove it and then insert it at the indicator line of the paper to be loaded.
- When using 11" x 17" sized paper store the left guide in the slot at the left front of the paper tray.
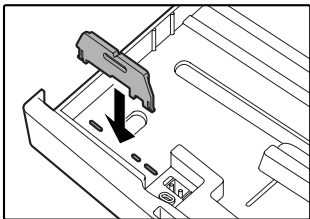
5 **Press the [START] key (⊙) and then the [PAPER SIZE ENTER] key (↵).**
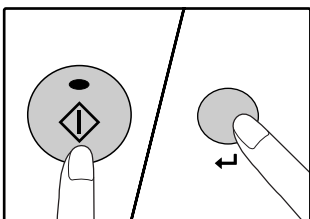
To change the paper size setting of another tray, repeat steps 2 to 5 after pressing the [START] key (⊙).

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

Important points when using the printer mode

- Make sure that the tray's paper size setting is the same as the tray's paper size setting in the printer driver. For example, if the tray's paper size setting is A4R (8-1/2" x 11"R), set "Setting Paper Size" to "A4-R" ("Letter-R"). For more information, see "CONFIGURING THE PRINTER DRIVER" in the "Software Setup Guide".

1

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This chapter explains basic copying functions such as normal copying, reduction or enlargement, and exposure adjustment.
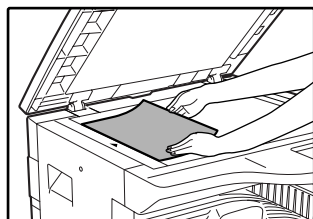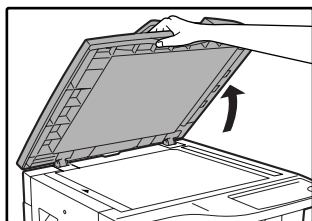
NORMAL COPYING

This section explains how to make a regular copy.
If "Auditing mode" has been enabled (p.39), enter your 3-digit account number.

Copying from the document glass

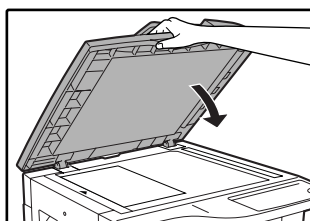**1** **Open the document cover/SPF, and place the original.**

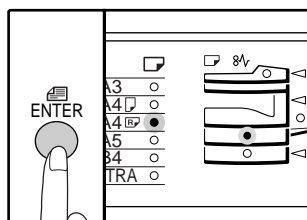Place the original face down on the document glass. Align it with the original size scale.

📝**Note** An original up to A3 (11" x 17") can be placed on the document glass.

2 **Close the document cover/SPF.**

3 **Press the [ORIGINAL SIZE ENTER] key ($_{ENTER}$) and select the original size.**


When the original size is selected, the tray with the same size of paper is automatically selected. (Two-tray model only)

● 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 [TRAY SELECT] key (⊜) and copy from the bypass tray.
● The bypass tray must be manually selected.
● To copy on paper of a different size than the original, select the paper with the [TRAY SELECT] key (⊜).
● If the ORIGINAL SIZE indicator is blinking, rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.

4 **Set the number of copies.**
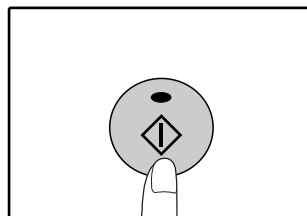
5 **Press the [START] key (◈) to begin copying.**

The copy is delivered to the paper output tray.

📝**Note**
• 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.12) The setting for "Auto clear time" can be changed in the user programs. (p.33)
• Press the [CLEAR] key (⊂) to stop copying in the middle of a run.

Copying from the SPF

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

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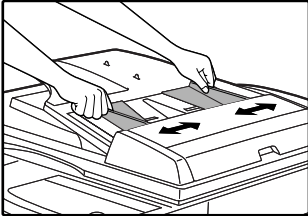
3 **Set the original(s) face up in the document feeder tray.**
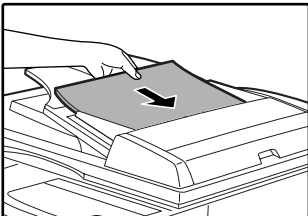
● Insert the original into the document feeder tray as far as it will go. When the original is set, the SPF indicator will light up.
● The ORIGINAL SIZE indicator corresponding to the size of the original lights up.
● If the ORIGINAL SIZE indicator is blinking, rotate the original so that it is in the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

Note 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 (⟐) to begin copying.**

The copy is delivered to the paper output tray.

Note
- 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.12) The setting for "Auto clear" time can be changed in the user programs. (p.33)
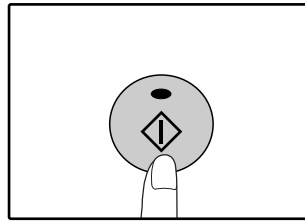- Press the [CLEAR] key (C) to stop copying in the middle of a run.
- If you find it difficult to remove the original from the document feeder tray, open the feeding roller cover first and then remove the original. If you remove the original without opening the feeding roller cover, the original may become dirty.

2

Auto paper select mode (Two-tray model only)

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 (5-1/2" x 8-1/2", 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 13", 8-1/2" x 14" and 11" x 17") paper. "Auto paper select mode" can be disabled in the user programs. (p.33)
- The sizes of paper that can be loaded vary by country and region.
- 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.22) or if a tray is selected with the [TRAY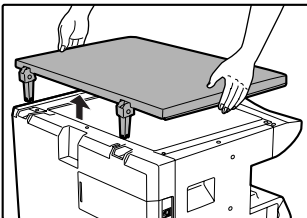 SELECT] key (🖶). Auto paper select resumes operation when the [CLEAR ALL] key (🅒Ⓐ) is pressed or when "Auto clear time" activates.


Removing the document cover

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

Copying books or originals with folds or creases

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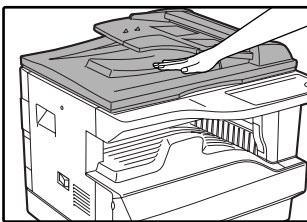
Originals that can be used in the SPF

Originals that are A5 to A3 (5-1/2" x 8-1/2" to 11" x 17") and 56 g/m^2 to 90 g/m^2 (15 lbs. to 24 lbs.) can be used. A maximum of 40 pages can be placed at once.
For originals that are B4 (8-1/2" x 14") or larger (B4, A3 (8-1/2" x 14", 11" x 17")), a maximum of 30 pages can be placed at once.

📝**Note**
- Make sure that there are no paper clips or staples on the original.
- Straighten curled originals before placing them in the document feeder tray. Curled originals may cause misfeeds.

Originals that cannot be used in the SPF

The following originals cannot be used. These may cause misfeeds or smudging and unclear images.
- Transparencies, tracing paper, other transparent or translucent paper, and photographs.
- Carbon paper, thermal paper.
- Originals that are creased, folded, or torn.
- Glued originals, cut-out originals.
- Originals with binder holes.
- Originals printed using an ink ribbon (thermal transfer printing), originals on thermal transfer paper.

Stream feeding mode

If "Stream feeding mode" is enabled in the user programs (p.33), the SPF indicator will blink for about 5 seconds after all originals are fed. If a new original is placed in the SPF during this time, the original will be automatically fed in and copying will begin.

MAKING A COPY DARKER OR LIGHTER

Automatic exposure adjustment is initially enabled. This function automatically adjusts the copy image according to the original being copied. If you wish to select the exposure level yourself, follow the steps below. (Select from two original types and five exposure levels for each original type.) The exposure level used in automatic exposure adjustment can also be changed. ("ADJUSTING THE AUTOMATIC EXPOSURE LEVEL" (p.31))

Original types

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

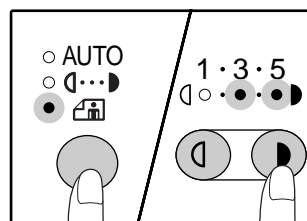**1** **Press the [AUTO/TEXT/PHOTO] key (AUTO / ◖⋯◗ / 📷) to select the original type.**
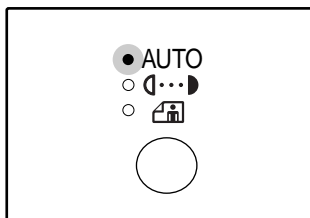
To adjust the exposure of a text original manually, press until the TEXT indicator (◖⋯◗) lights. To copy a photo, press until the PHOTO indicator (📷) lights.

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

2 **Press the [Light] key (◐) or [Dark] key (◑) to adjust the exposure.**

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

Note **Exposure value guidelines**
1 – 2   Dark originals like newspapers
3   Normal originals
4 – 5   Coloured text or text written in pencil

SELECTING THE TRAY

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 [TRAY SELECT] key (▤) to select the desired tray.
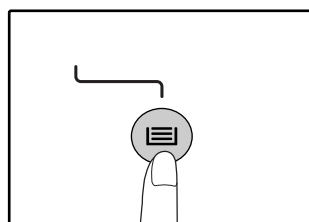
Note • If the desired PAPER SIZE indicator does not light up, change the paper in the tray to the desired paper size. (p.16)
• Automatic ratio selection (p.22) does not operate when the bypass tray or a tray set for a special paper size is selected.

Auto tray switching (Two-tray model only)

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 user programs (p.33).

SETTING THE NUMBER OF COPIES

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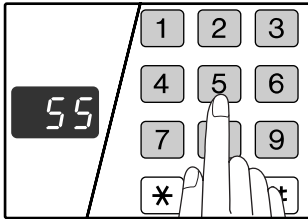
- The set number of copies appears in the display. A maximum of 999 copies (factory default setting) can be set.
- If you wish to make only a single copy, copying is possible with the display showing "0".

> **Note** 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

The maximum number of copies can be changed in the user programs. (p.34)

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

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.23)
- **Separate settings can be selected for the vertical and horizontal ratios.**
  "SELECTING THE VERTICAL AND HORIZONTAL COPY RATIOS SEPARATELY" (p.24)

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

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

AUTOMATIC RATIO SELECTION

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

2 If the original is placed on the document glass, select the original size. (p.18)

> **Note** Automatic ratio selection can be used when the original size is A5, B5, A4, A4R, B4, A3 (5-1/2" x 8-1/2", 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 13", 8-1/2" x 14" or 11" x 17"). The sizes of paper that can be loaded vary by country and region. It cannot be used for other sizes.

3 Use the [TRAY SELECT] key ( ) to select the paper tray with the desired paper size.
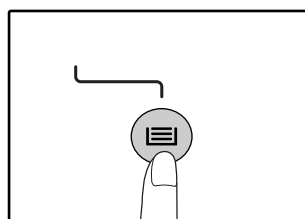
This feature will not work when using copy paper of non-standard size or when using the bypass tray.

4 **Press the [AUTO IMAGE] key (** AUTO % **).**
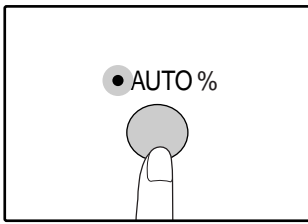
The AUTO IMAGE indicator (AUTO %) lights up and the appropriate ratio for the original size and paper size is selected. (The indicator of the selected ratio will light up.)

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

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

The copy will be delivered to the paper output tray.

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

2

MANUAL RATIO SELECTION

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

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

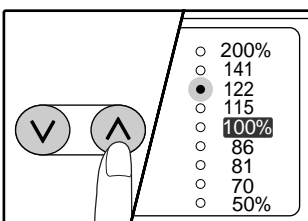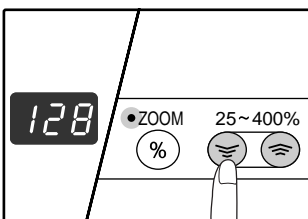**2** **If the original is placed on the document glass, select the original size. (p.18)**

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

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

200%
141
122
115
100%
86
81
70
50%

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

128 •ZOOM 25~400%

Press a [PRESET RATIO] selector key (or) to set the approximate ratio, then press the [Zoom] keys (or) to increase or decrease the ratio.
To decrease or increase the zoom ratio rapidly, hold down the [Zoom] keys (or).

When a [Zoom] key (or) is pressed, the ZOOM indicator will light up and the zoom ratio will appear in the display for about two seconds.

Note
- 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.14)

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

The copy will be delivered to the paper output tray.

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

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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.

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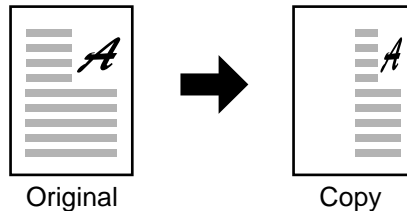
Note
- To use the XY ZOOM feature with the DUAL PAGE COPY feature, set the DUAL PAGE COPY feature first and then the XY ZOOM feature.
- The XY ZOOM feature cannot be used in combination with the AUTO IMAGE function.

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

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

---

1 Place the original(s) in the document feeder tray or on the document glass.
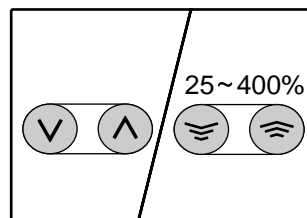
2 If the original is placed on the document glass, select the original size. (p.18)
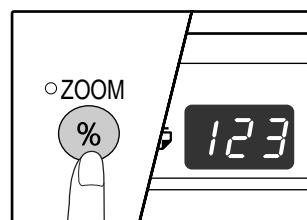
3 Press the [XY-ZOOM] key (⌗).
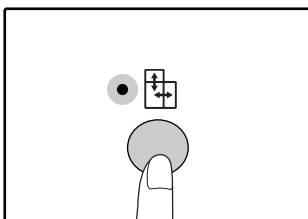
XY-ZOOM Indicator (⌗) lights up.
The current value for the vertical direction will appear in the display.

4 Use the [PRESET RATIO] selector keys (∨, ∧) and [Zoom] keys (⌄, ⌃) to change the copy ratio in the vertical direction.

25~400%

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

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

○ZOOM
%
123

The selected ratio for the vertical direction will be entered.

COPY FUNCTIONS

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

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

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

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

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

The copy will be delivered to the paper output tray.

✎Note
- 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.
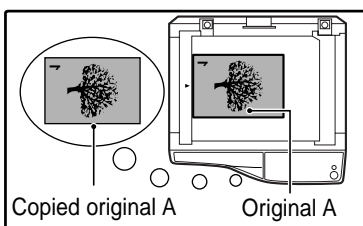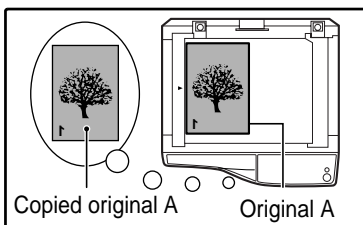
2

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TWO-SIDED COPYING USING THE BYPASS TRAY

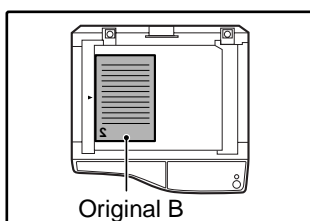To perform manual two-sided copying, follow these steps.

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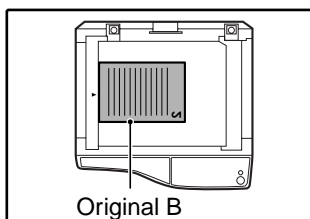
Original A   Original B   Copy

1 Copy original A.

Copied original A   Original A
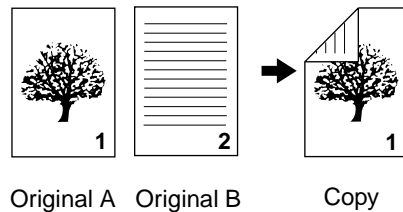
Copied original A   Original A

2 Place original B as shown below.

Original B

**Vertically-oriented original:**
If the original is oriented vertically, place it in the same orientation as original A.

Original B

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

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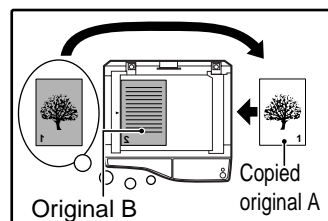
Insert the paper all the way in.

Original B   Copied original A

Original B   Copied original A
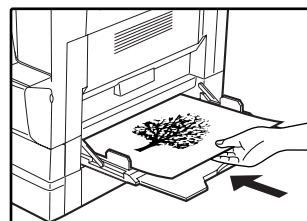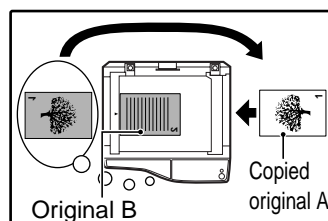
Note
- Copies made on the back side of paper should always be made one sheet at a time using the bypass tray.
- Straighten curled or wavy paper before using it. Curled paper may cause misfeeds, creases, or a poor-quality image.

4 Select the bypass tray with the [TRAY SELECT] key (⊜), and then press the [START] key (⊚).

The copy is delivered to the paper output tray.

DUAL PAGE COPYING

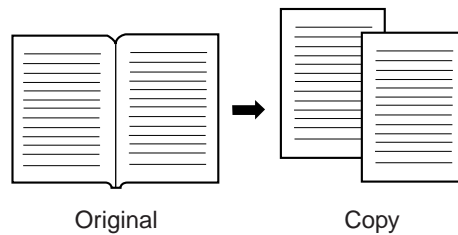A dual page original can be automatically separated into two pages during copying. This feature is convenient for making copies of books and other dual page originals on individual sheets of paper.
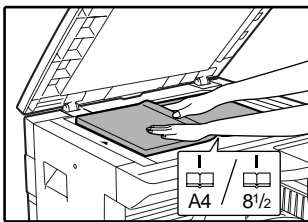

Original   Copy

Note
- A4 (8-1/2" x 11") paper is used for dual page copying.
- When used in combination with XY ZOOM copying, enlargement is not possible.
- Dual page copying cannot be used in combination with the enlargement copying.
- Automatic ratio selection cannot be used when dual page copying is used.
- Dual page copying cannot be selected when an original is placed in the SPF.

2

1 **Place the original on the document glass, aligning the division between the pages with the size marker (A4 ($8^1/_2$)). Close the document cover SPF.**

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

Note
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 lower page number to the right.

2 **Set the original size to A3 (11" x 17").**

3 **Press the [DUAL PAGE COPY] key (AB-AB) and make sure that the DUAL PAGE COPY indicator (AB-AB) is lit.**
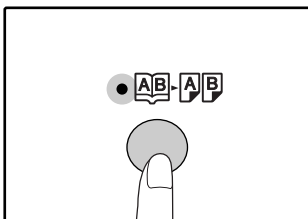
4 **Make sure that a paper tray with A4 (8-1/2" x 11") size paper is selected.**

5 **Set the number of copies and other copy settings, and press the [START] key ( ).**
The copy will be delivered to the paper output tray.

Note
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.

✍Note Interrupt copying is not possible when the user programs are being configured.

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

● INTERRUPT

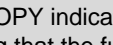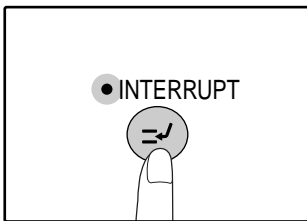The INTERRUPT indicator will light up and the machine will revert to the initial settings. (p.12) The INTERRUPT indicator will blink until the current copy run stops.

✍Note
- If the SPF is being used, the copy run will not stop until the set number of copies is completed.
- **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.39)

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

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

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

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

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

The interrupted copy run will resume.

Chapter 3
PRINTER FUNCTIONS

The machine includes a USB 1.1 connector and a parallel connector as standard equipment.
A computer can be connected to these connectors to use the machine as a printer.
To use the machine as a printer, the printer driver must first be installed as explained in the "Software Setup Guide".

> 🖉**Note**   • If a problem occurs in printer mode, see "TROUBLESHOOTING" (p.40).
> • When interrupt copying is being performed, printing is not possible.

USING THE PRINTER MODE

The procedure for loading paper is the same as for loading copy paper. See "LOADING PAPER". (p.13)

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

BASIC PROCEDURE FOR PRINTING

The basic procedure for printing is explained below. To use convenient printer functions, see the "Online Manual" or the printer driver help file.
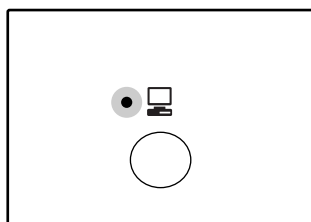
1 Make sure that paper is loaded in the tray.

The procedure for loading paper is the same as for copying. See "LOADING PAPER" (p.13) and make sure the paper that you wish to use is loaded.

> 🖉**Note**   Make sure that the paper size setting on the machine is the same as the paper size set in the printer driver.

2 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 not lit, the machine is off-line and cannot print. When the indicator is blinking, a print job is transferred to the machine.

3 Open the file that you wish to print and select "Print" from the File menu.

4 Make sure that the printer driver for the machine is selected, and select print settings in the printer driver.

For information on the settings in the printer driver, see the "Online Manual", the "Software Setup Guide", or the printer driver help file.

5 Click the "Print" button or the "OK" button to begin printing.

The print job will be delivered to the paper output tray.

Important points when setting the paper size
• 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 (8-1/2" x 11"R), set "Setting Paper Size" to "A4-R" ("Letter-R"). For more information, see "CONFIGURING THE PRINTER DRIVER" in the "Software Setup Guide".

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 "Use close paper size" is disabled

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

When "Use close paper size" is enabled

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

OPERATION IN COPY AND PRINTER MODES

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

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

*1 Can be used after pressing the [INTERRUPT] key (⊘).
*2 Printing will begin when the [CLEAR ALL] key (CA) is pressed after the copy job is finished, or when the [ON LINE] key (⬜) is pressed to switch the machine online. Printing will also begin after the set auto clear time elapses, or after 60 seconds if "Auto clear time" is disabled.
*3 The print job is paused and copying begins.

Chapter 4
USER SETTINGS

This chapter explains how to set the automatic exposure level, toner save mode/high image quality mode, and the user programs, which are custom settings that control fine points of the machine's operation.

ADJUSTING THE AUTOMATIC EXPOSURE LEVEL

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

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

1 **To adjust the automatic exposure level in the SPF, place the original in the SPF. (p.19)**
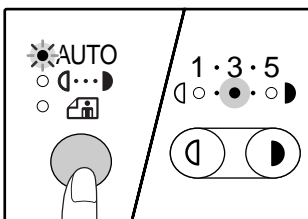Make sure that the SPF indicator is lit.

> **Note** To adjust the automatic exposure level for copies made from originals placed on the document glass, proceed to step 2.
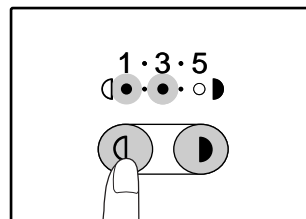
2 **Press the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖼) to select "PHOTO" (🖼).**

3 **Hold down the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖼) until the AUTO indicator (AUTO) blinks.**

The exposure level indicators show the current setting.

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

5 **Press the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖼) to complete the setting.**
The AUTO indicator (AUTO) stops blinking and lights steadily.

> **Note** After adjusting the automatic exposure level, it is recommended that you make a test copy to check the new level.
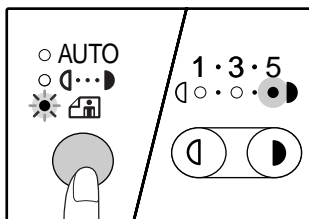
TONER SAVE MODE AND HIGH IMAGE QUALITY MODE

Toner save mode can be enabled to reduce toner consumption by about 10%.
The high image quality mode improves copy image quality in the automatic and manual exposure modes by increasing copy density with a slight increase of toner consumption.
To switch between toner save mode and high image quality mode, follow the steps below.

Note In Europe, high image quality mode is initially selected. In regions other than Europe, toner save mode is initially selected.
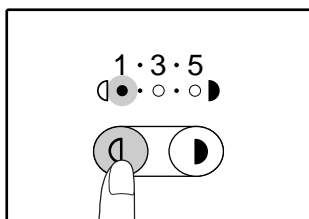
1 **Press the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖾) to select "TEXT" (◖···◗).**

2 **Hold down the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖾) until the PHOTO indicator (🖾) blinks.**

The exposure level indicators show the current setting.

3 **To enable toner save mode, press the [Light] key (◐). To enable high image quality mode, press the [Dark] key (◑).**

When enabling toner save mode, make sure that "1" is lit. When enabling high image quality mode, make sure that "5" is lit.

4 **Press the [AUTO/TEXT/PHOTO] key (AUTO /◖···◗/🖾) to complete the setting.**

The PHOTO indicator (🖾) stops blinking and lights steadily.

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CUSTOMISING SETTINGS

(User programs)

The user programs allow you to customise the machine to match your needs.

USER PROGRAMS

| 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.12) 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 ( ) 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 SPF, during the period of time that the SPF indicator blinks after an original has been scanned (about 5 seconds), a subsequent original can be placed and automatically fed into the machine.
5	Auto power shut-off setting	0: OFF **1: ON**	• Use this setting to enable or disable auto power shut-off.
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 SPF, or the same size as that selected with the [ORIGINAL SIZE ENTER] key (ENTER) 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.36).

[*1] When the SPF is installed.
[*2] On model with the two trays.

Program number	Program name	Setting codes (factory default setting appears in bold)	Explanation
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.
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.35)
28	Base setting beep signal	**0: OFF** 1: ON	• Use this to sound a beep when a base setting is selected. (p.35)
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	**1: Upper paper tray**[3] 2: Lower paper tray[3] 5: Bypass tray[3]	• 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.

[3]d-Copia 16W is as follows:
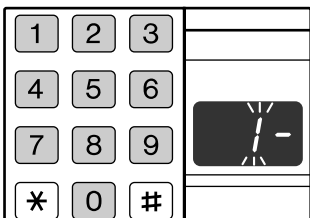 1: Paper tray (factory default),
  5: Bypass tray

SELECTING A SETTING FOR A USER PROGRAM

1 **Hold down the [Light] key ( ) until the alarm indicators (, , , ,) blink.**
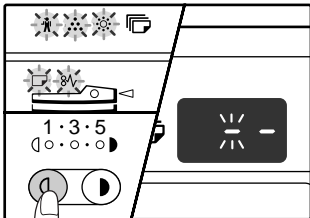
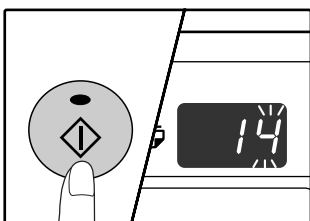The display shows "- -" with the left hyphen blinking.

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

- See "USER PROGRAMS" (p.33 to p.34) for the program numbers.
- The selected program number blinks.
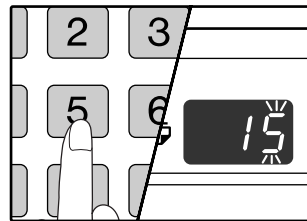- For example, to select "Auto clear timer", press the [1] key.

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

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

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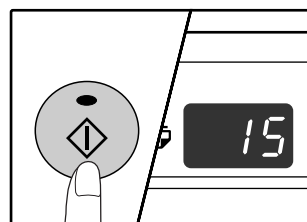- The currently selected setting code blinks on the right side of the display.

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

- For the setting codes, see "USER PROGRAMS". (p.33 to p.34)
- The selected setting code blinks.
- For example, to select 90 seconds, press the [5] key.

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

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

The selected setting code stops blinking and lights steadily.

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

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

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

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

The machine sounds three different types of beep signals: a key entry beep that sounds when a valid key is pressed, an invalid key beep that sounds when an invalid key is pressed, and a base setting beep that sounds when a setting is the same as the base setting (base settings are explained below). The base setting beep is initially disabled. If you wish to enable the base setting beep, see "Base setting beep signal" on page 34. If you wish to change the volume of the beep signals or disable them, see "Audible signals volume" on page 34. The beep patterns of each type of beep signal are as follows:

Key entry beep .... One beep   **Base setting beep** .... Three beeps
Invalid key beep ....Two beeps

Base settings

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

Copy ratio .... 100%   **ORIGINAL SIZE**.................A4 (8-1/2" x 11")
Light and Dark indicator........................ 3   **AUTO/TEXT/PHOTO (AUTO / ··· /)**
Paper feed location .... Upper paper tray   .... AUTO

4

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.

> **Note**
> The administrator of the machine should complete the following settings:
> • Enable "Auditing mode" (p.38)
> • Account number entry (p.38)

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

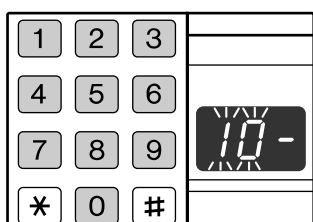## 1 Hold down the [Light] key ( ) until the alarm indicators (, , , ,) blink.
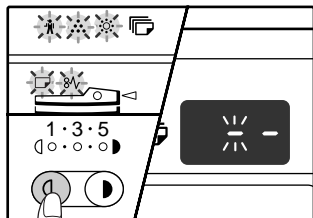
The display shows "- -" with the left hyphen blinking.

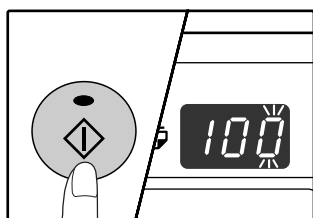## 2 Enter the program number with the numeric keys.

- See "AUDITING MODE SETTINGS" (p.36) for the program numbers.
- The selected program number blinks.
- For example, to select "Auditing mode", enter "10".

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

3 Press the [START] key ( ).

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

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

For the setting codes, see "AUDITING MODE SETTINGS". (p.36)

Note
- 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.

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

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

4

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 (⊙).**

Note   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 (C).**

Account number entry
(program No.11)

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

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

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

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

Account number change
(program No.12)

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

1   **Press the [Copy ratio display] key (%) to select the account number that you wish to change, and then press the [START] key (⊙).**
The display will show 3 blinking hyphens "- - -".

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

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

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

Account number deletion
(program No.13)

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

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

[Deleting all accounts at once]
Press the [1] key and then press the [START] key (⊙).
All account numbers will be deleted.

[Deleting a single account]
1   **Press the [0] key, and then press the [START] key (⊙).**
2   **Select the account number to be deleted with the [Copy ratio display] key (%) and then press the [START] key (⊙).**

Note   To delete another account number, enter the program number (13) for account number deletion and then repeat the procedure for "Deleting a single account".
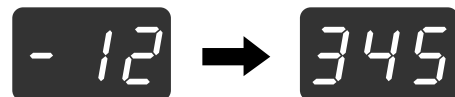
Number of copies per account
(program No.14)

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

Note
• Each A3 (11" x 17") size page is counted as two pages.
• To view the copy count of another account, repeat steps 1 and 2.

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

Resetting account (program No.15)

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

[Resetting all accounts]

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

The copy counts of all accounts will be deleted.

[Resetting a single account]

1　**Press the [0] key, and then press the [START] key (⟐).**

2　**Select the account number to be reset with the [Copy ratio display] key (⟐) and then press the [START] key (⟐).**

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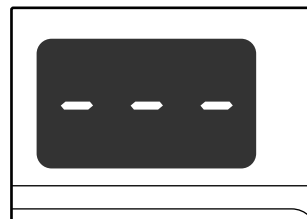
1　Enter your 3-digit account number with the numeric keys.

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

Note　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.

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

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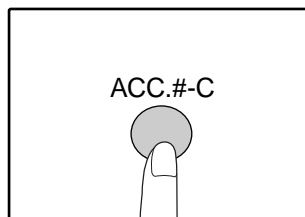
ACC.#-C

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

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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

PRINTING PROBLEMS

MACHINE/COPYING PROBLEMS

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

Problem	Cause and solution	Page
The machine does not operate.	**The machine is not plugged into a power outlet.** → Plug the machine into a grounded outlet.	–
	Power switch OFF. → Turn the power switch ON.	12
	The POWER SAVE indicator (⊘) is blinking. → Indicates that the machine is warming up. Copies cannot be made until the machine has finished warming up.	12
	The front cover or the side cover is not completely closed. → Close the front cover or the side cover.	–
	The machine is in auto power shut-off mode. → In auto power shut-off mode, all lights are off except the POWER SAVE indicator (⊘) and ON LINE indicator (🖵). Press the [START] key (⊚) to resume normal operation.	12
	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 [TRAY SELECT] key (⊜) to change the tray selection. • Open and close the tray. • Press the [CLEAR ALL] key (ⓒⒶ).	16
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 (◑) and [Dark] key (◐) to manually select an appropriate exposure. → If the copy is too light or too dark even though AUTO was selected with the [AUTO/TEXT/PHOTO] key (AUTO / ◖···◗ / 🔁), adjust the automatic exposure level.	21 31
Blank copies.	**The original is not placed face up in the SPF or face down on the document glass.** → Place the original face up in the SPF or face down on the document glass.	18, 19
Part of the image is cut off or there is too much blank space.	**The original was not placed in the correct position.** → Place the original correctly.	18, 19
	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.	22
	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.	16
Wrinkles appear in the paper or the image disappears in places.	**The paper is outside of the specified size and weight range.** → Use copy paper within the specified range.	13
	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.	–

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Problem	Cause and solution	Page
Paper misfeed.	**Misfeed occurs.** → To remove the misfeed, see "MISFEED REMOVAL".	47
	The paper is outside of the specified size and weight range. → Use copy paper within the specified range.	13
	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.	14
	Pieces of paper inside machine. → Remove all pieces of misfed paper.	47
	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.	14
	Some sheets of paper stick together. → Fan the paper well before loading it.	14
	The guides on the bypass tray do not match the width of the paper. → Adjust the guides to match the width of the paper.	15
	The bypass tray extension is not pulled out. → When loading a large size of paper, pull out the extension.	15
	The bypass paper feed roller is dirty. → Clean the roller.	57
	A5 (5-1/2" x 8-1/2") paper is loaded in lower paper tray. → A5 (5-1/2" x 8-1/2") size paper must be loaded in upper paper tray or the bypass tray.	13, 14
Original size not selected automatically. (When the SPF is installed.)	**Original(s) curled.** → The original size cannot be correctly detected if the original is curled or folded. Straighten the original.	–
	The original includes any large black solid areas. → If the original includes any large black solid areas, the original size may not be detected automatically. Use the [ORIGINAL SIZE ENTER] key (ENTER) to select the paper size.	–
	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/SPF is dirty.** → Clean regularly.	56
	Original smudged or blotchy. → Use a clean original.	–
White or black lines appear on copies.	**The scanner glass in the SPF is dirty.** → Clean the long, narrow glass in the SPF.	56
	The transfer charger is dirty. → Clean the transfer charger.	57
Paper size for a paper tray cannot be set.	**Copying or printing is performed.** → Set the paper size after copying is complete.	–
	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.	14, 47
	An interrupt copy job is in progress. → Set the paper size after the interrupt copy job is finished.	28
A copy job stops before it is finished.	**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 (⟳) to resume copying.	22
	The tray is out of paper. → Load paper.	14
The POWER SAVE indicator (⊘) is lit.	**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.	12
	The POWER SAVE indicator (⊘) and ON LINE indicator (⬛) are only lit. → If only the POWER SAVE indicator (⊘) and ON LINE indicator (⬛) are lit, the machine is in auto power shut-off mode. Press the [START] key (⟳) to resume normal operation.	12
Any one of the alarm indicators (⚡, ⋮, ☼, ▯, 8ᐱ) 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.**	46
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.	–

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PRINTING PROBLEMS

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

Problem	Cause and solution	Page
The machine does not print. (ON LINE indicator (⬚) does not blink.)	**The machine is set to off-line mode.** → Press the [ON LINE] key (⬚) to turn on the ON LINE indicator (⬚).	29
	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".	60
	Copy job is performed. → Wait until the copy job is complete.	–
	The port setting is not correct. → Printing is not possible if the printer driver port setting is not correct. Set the port correctly.	Software Setup Guide
	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 "OLIVETTI d-Copia xxW" (where xx 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", click "Printers and Other Hardware", and then click "Printers and Faxes". (On Windows 95/98/Me/NT 4.0/2000, click the "Start" button, select "Settings" and then click "Printers".)
	  2 The "OLIVETTI d-Copia xxW" printer driver icon is not shown (where xx is the model name of your machine).
	  3 If the icon is shown but you still cannot print, the printer driver may not have been installed correctly. In this case, delete d-Copia 16W/20W Software and then reinstall it.
		–

The machine does not print. (ON LINE indicator (⬚) was blinking.)	**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 paper size setting in the printer driver, see the Software Setup Guide.	16 Software Setup Guide
	The specified size of paper has not been loaded. → Load the specified size of paper in the paper tray.	14
	The PAPER SIZE indicator is blinking. → When "Use close paper size (user program)" is disabled, the PAPER SIZE indicator on the operation panel will blink. You can press the [TRAY SELECT] key (⬚) to select a tray manually, or load paper in the bypass tray and press the [ON LINE] key (⬚) to begin printing. → When "Use close paper size" is enabled, printing will take place using a size of paper that is close to the size of the print image.	16, 21 –

Problem	Cause and solution	Page
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.	14
The printed image is dirty.	**You are using paper that is outside the specified size and weight range.** → Use copy paper within the specified range.	13
	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 printed image is skewed or it runs off the paper.	**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 Page" setting is activated, make sure that the paper size selected from the drop-down list of the "Fit To Paper Size" option is the same as the size of the loaded paper.	–
	The orientation of document setting is not correct. → Click the "Paper" 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.	14
	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.	–
Any one of the alarm indicators (🛉 , ∴ , ☼ , 🗍 ,8⋁) 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.**	46

Removing the software

If you need to remove the software, follow these steps.

1 **Click the "start" button, and then click "Control Panel".**

On Windows 95/98/Me/NT 4.0/2000, click the "Start" button, select "Settings", and then click "Control Panel".

2 **Click "Add or Remove Programs".**

On Windows 95/98/Me/NT 4.0/2000, double-click the "Add/Remove Programs" icon.

3 **Select "OLIVETTI d-Copia 16W/20W Series Printer Driver" from the list, and remove the software.**

For more information, refer to your operating manual or to the help files for your operating system.

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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.

Toner cartridge replacement required indicator

Developer replacement required indicator

Maintenance indicator— 🏃 ∴ ☼ 🗐 [0] — Display

Paper required indicator—🗀 8⌄ —— Misfeed indicator
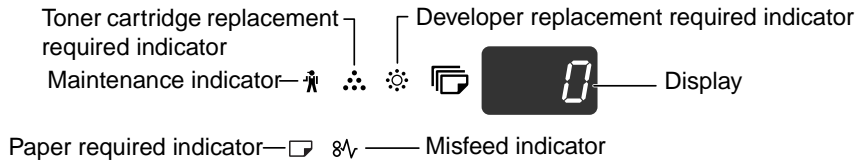
Indication			Cause and solution	Page
🏃	Maintenance indicator	Steadily lit	Service by an authorised OLIVETTI service technician is required.	–
☼	Developer replacement required indicator	Steadily lit	Developer is required. Contact your authorised service representative.	–
∴	Toner cartridge replacement required indicator	Steadily lit	Replacement of toner cartridge will be needed soon. Prepare a new cartridge.	–
		Blinking	Toner cartridge must be replaced. Replace it with a new one.	54
🗀	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.	14
8⌄	Misfeed indicator	Blinking	A paper misfeed has occurred. Remove the misfeed as explained in "MISFEED REMOVAL".	47
ORIGINAL SIZE indicator		Blinking	The original is not placed in the correct orientation. Rotate the original so that it is in the same orientation as the blinking ORIGINAL SIZE indicator.	18,19
PAPER SIZE indicator		Blinking	A blinking PAPER SIZE indicator means that the size of paper loaded in the tray is different from the paper size setting for the tray. Change the paper size setting. To clear the display, do one of the following: • Use the [TRAY SELECT] key (🗐) to change the tray selection. • Open and close the tray. • Press the [CLEAR ALL] key (ⓒⓐ).	16
[CH] appears in display		Steadily lit	The front cover or the side cover is open. Close the front cover or the side cover.	–
		Blinking	The toner cartridge is not installed correctly. Reinstall the toner cartridge. If [CH] still blinks in the display after reinstalling the toner cartridge, contact your authorised service representative.	54
[L4]	Letters and numbers appear in the display		Turn off the power switch, wait about 10 seconds, and then turn on the switch again. If this does not clear the message, write down the code that appears and then unplug the power cord and contact your authorised. Tell service representative what code appeared and the circumstances under which it appeared.	–
When "Use close paper size" is disabled 📠 🗀 ○ A3 ○ ○ A4◻ ☀ ○ A4🄬 ○ ○ A5 ○ ○ B4 ○ EXTRA ○			Press the [TRAY SELECT] key (🗐) to manually select the tray and then press the [ON LINE] key (🖳). Printing will begin. If you are selecting the bypass tray, load paper in the bypass tray.	Online manual

MISFEED REMOVAL

When a misfeed occurs, the misfeed indicator ($8\mathord{\wedge}$) and a misfeed location indicator ($\blacktriangleleft$) will blink and the machine will automatically stop.
Check the blinking misfeed location indicator to identify the location of the misfeed and remove it.

> **Note** 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.

d-Copia 20W

(p.47)
(p.48)

(p.52)

d-Copia 16W

(p.47)
(p.48)
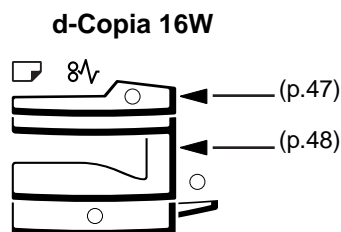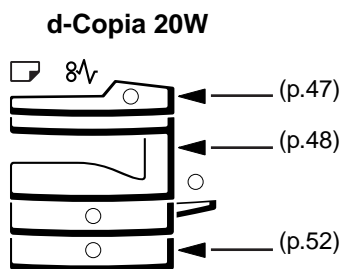
MISFEED IN THE SPF

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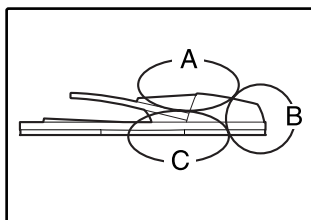
Check sections A, B, and C in the left shows the illustration (see the next page), and remove the misfed original.

Section A

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

Feeding roller cover
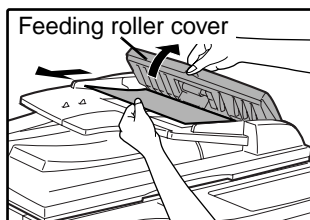
Section B

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

Roller
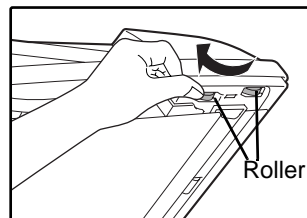
If a small original (A5 (5-1/2" x 8-1/2"), etc.) is misfed, open the right side cover and remove the original. Close the right side cover.

Right side cover

5
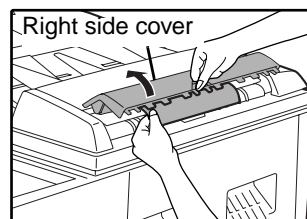
Section C

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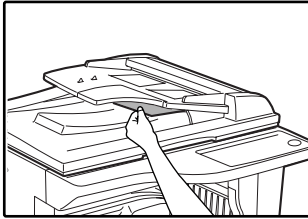
If the misfed original cannot be easily removed from the exit area, open the moveable part of the document feeder tray and remove the original.

2 Open and close the SPF to make the misfeed location indicator stop blinking.
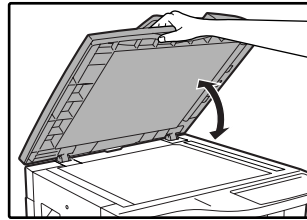
You can also make the misfeed indicator stop blinking by opening and closing the feeding roller cover or the right side cover.

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

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

MISFEED IN THE BYPASS TRAY

1 Gently pull the misfed paper out.
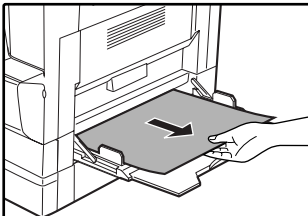
2 Open and close the side cover.
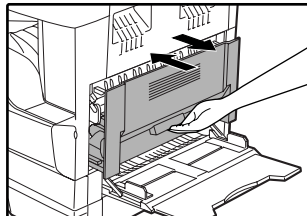
The misfeed indicator ($8\mathcal{N}_V$) will go out.

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

MISFEED IN THE MACHINE

1 **Open the bypass tray and the side cover.**
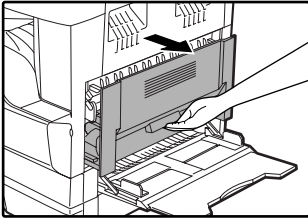
2 **Check the misfeed location. Remove the misfed paper following the instructions for each location in the illustration below.**

If paper is misfed here, go to "B. Misfeed in the fusing area".

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

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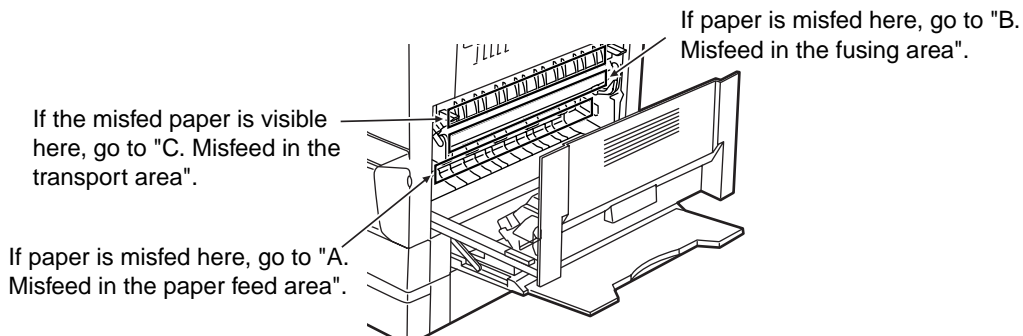
A. Misfeed in the paper feed area

1 **Push gently on both ends of the front cover.**
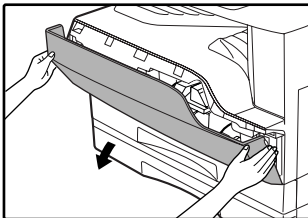
3 **Close the front cover and side cover.**
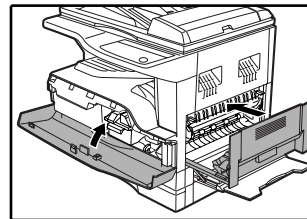
The misfeed indicator ($8\text{\textbackslash}$) will go out.

2 **Carefully remove the misfed paper. Turn the roller rotating knob in the direction of the arrow to assist in removing it.**
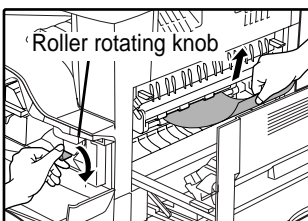
Be careful not to tear the misfed paper during removal.

Roller rotating knob

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

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

✍Note
• When closing the front cover, gently hold both ends.
• When closing the side cover, press on the handle.
• If the misfeed indicator ($8\text{\textbackslash}$) does not stop blinking, check for torn pieces of paper in the machine.

5

B. Misfeed in the fusing area

1 **Push gently on both ends of the front cover.**
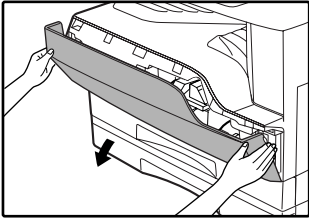
2 **Turn the roller rotating knob in the direction of the arrow.**

Roller rotating knob
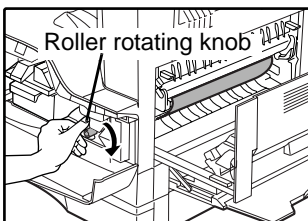
3 **Carefully remove the misfed paper. Lower the fusing unit release levers to allow easier removal.**

Fusing unit release lever

Be careful not to tear the misfed paper during removal.

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

⚠️**Caution**
• Do not touch the photoconductive drum (green portion) when removing the misfed paper. Doing so may damage the drum and cause smudges on copies.
• Be careful about unfixed toner on the misfed paper not to soil your hands or clothes.
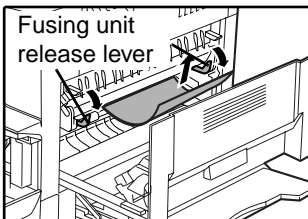
4 **Lift the fusing unit release levers, to return them to their operating positions.**

5 **Close the front cover and side cover.**

The misfeed indicator ($8\Lsh$) will go out.

📝**Note**
• When closing the front cover, gently hold both ends.
• When closing the side cover, press on the handle.
• If the misfeed indicator ($8\Lsh$) does not stop blinking, check for torn pieces of paper in the machine.

50

C. Misfeed in the transport area

1 **Open the fusing paper guide by pressing down the projection on either side of the guide and remove the misfed paper.**
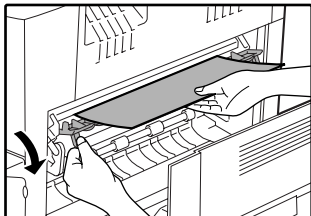
Be careful not to tear the misfed paper during removal.

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

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.

5
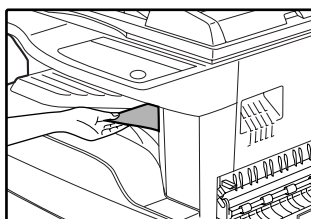
3 **Close the side cover.**
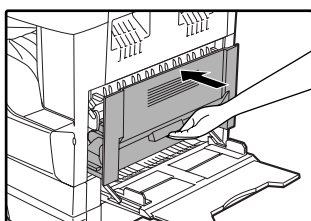
The misfeed indicator ($8\sqrt{}$) will go out.

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

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MISFEED IN THE UPPER PAPER TRAY

📝Note Make sure that there is no misfed paper in the tray before pulling it out. (p.49)

1 Lift and pull out the upper paper tray and remove the misfed paper.
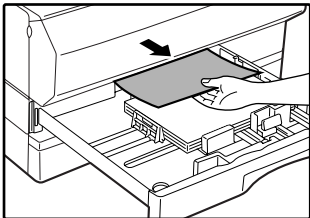
Be careful not to tear the misfed paper during removal.

2 Open and close the side cover.
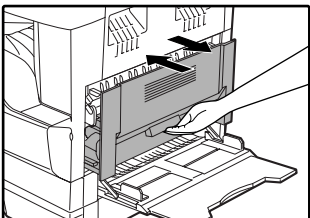
The misfeed indicator (8⁄ᵥ) will go out.

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

3 Close the upper paper tray.
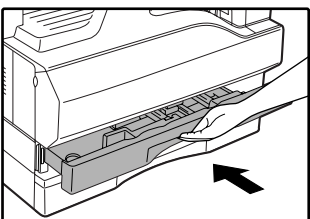
Push the upper paper tray in completely.

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MISFEED IN THE LOWER PAPER TRAY (Two-tray model only)

Note Make sure that there is no misfed paper in the tray before pulling it out. (p.49)

1 Open the lower side cover.
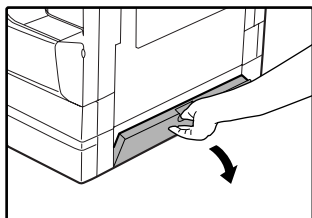
Grasp the handle to open the lower side cover.

5 Close the lower paper tray.
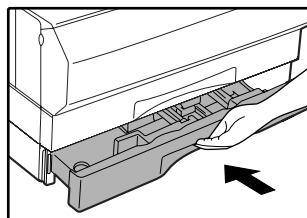
2 Remove the misfed paper.
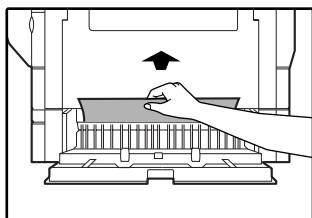
Be careful not to tear the misfed paper during removal.

3 If the misfed paper is not seen in step 2, lift and pull out the lower paper tray and remove the misfed paper.
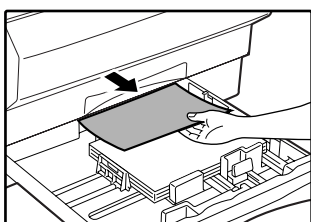
Be careful not to tear the misfed paper during removal.

4 Close the lower side cover.
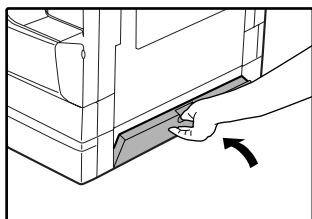
The misfeed indicator ($8\sqrt{v}$) will go out.

Note If the misfeed indicator ($8\sqrt{v}$) does not stop blinking, check for torn pieces of paper in the machine.

5

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.

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

1 **Push on both ends of the front cover and open it.**
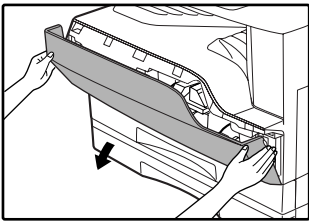
2 **Pull the toner cartridge out while pressing the lock release lever.**

Toner cartridge lock release lever
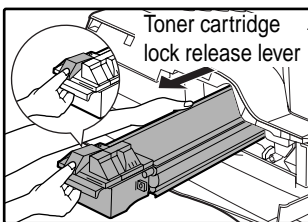
When pulling out the toner cartridge, place your other hand on the green part of the cartridge.

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

3 **Remove the new toner cartridge from the bag. Grasp the cartridge on both sides and shake it horizontally four or five times. After shaking the cartridge, remove the tape.**

4 or 5 times

Shutter
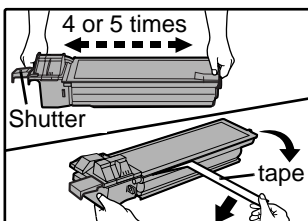
tape

> **⚠Caution**
> • Grasp the grip when holding the cartridge. Do not hold the cartridge by the shutter.
> • Be sure to shake the cartridge only before the tape is removed.

4 **Insert the toner cartridge along the guides until it locks in place while pushing the lock release lever.**
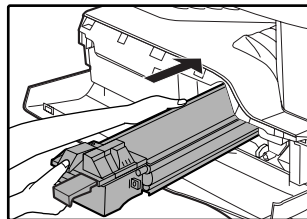
If there is any dirt or dust on the toner cartridge, remove it before installing the cartridge.

5 **Remove the tape from the shutter. Pull the shutter out of the toner cartridge.**
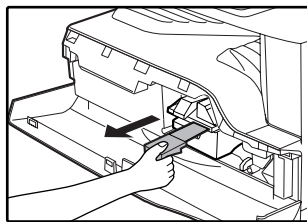
Discard the shutter.

6 **Close the front cover.**

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

> **✎Note**
> • 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 6
ROUTINE MAINTENANCE

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

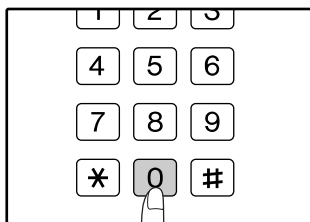# CHECKING THE TOTAL OUTPUT COUNT AND TONER LEVEL

CHECKING THE TOTAL OUTPUT COUNT

From the "0" display, you can check the total output count, total copy count, as explained below.
The total output count is all pages (for both printing and copying) printed by the machine and the total output count can be counted up to 999,999.

[Total output count]
Hold down the [0] key.

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

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

> *Note*
> • Each A3 (11" x 17") 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.
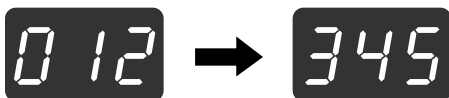
[Total copy count]
Hold down the [#] key.
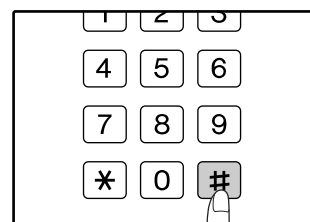
The count display and counting method are the same as for the total output count.

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

CHECKING THE TONER LEVEL

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

1 **Hold down the [Light] key (⊙) until the alarm indicators (🚶, ⋰, ☼, ⌷, 8ᚺ) blink.**
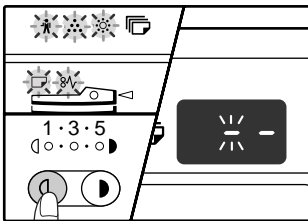
The display will show "- -".

2 **Hold down the [Copy ratio display] key (%) for more than 5 seconds.**
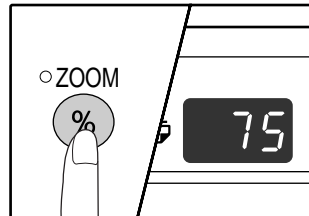
The approximate quantity of toner remaining will be indicated in the display as a percentage. ("100", "75", "50", "25", "10" is displayed.) When the percentage is less than 10%, "LO" will be displayed.

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

The alarm indicators (🚶, ⋰, ☼, ⌷, 8ᚺ) go off. The display returns to the number of copies display.

ROUTINE MAINTENANCE

CLEANING THE DOCUMENT GLASS AND SPF/DOCUMENT COVER

If the document glass, SPF, underside of the document cover, or the scanner for originals coming from the SPF (the long narrow glass surface on the right side of the document glass) become dirty, the dirt may appear on copies. Always keep these parts clean.
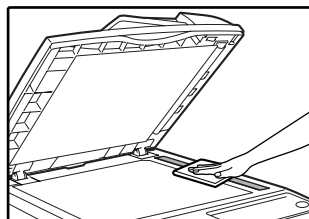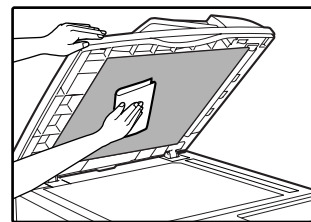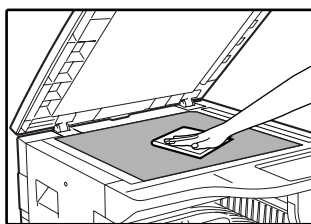
Stains or dirt on the document glass/SPF will also be copied. Wipe the document glass, document cover portion of the SPF and the scanning window on the document glass with a soft, clean cloth.
If necessary, dampen the cloth with water. Do not use thinner, benzene, or similar volatile cleaning agents.

⚠ **Warning** **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 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.
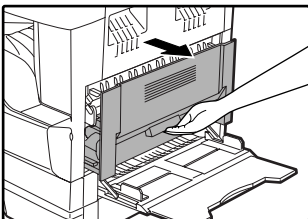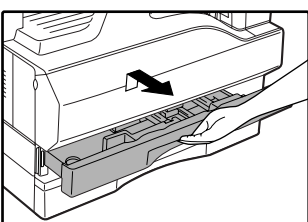

Paper feed roller
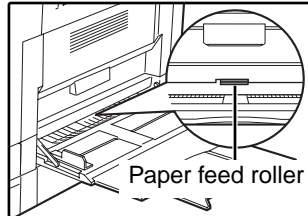
CLEANING THE TRANSFER CHARGER

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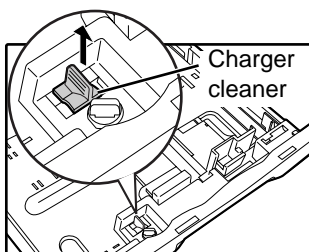Clean the charger using the following procedure.

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.**

Charger cleaner

5 **Set the charger cleaner onto the transfer charger and gently slide the cleaner in the direction indicated by the arrow two or three times.**
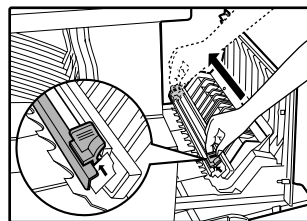
If the white sheet metal is smudged with toner, wipe it with a soft, clean cloth.

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

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

7 **Turn the power switch on.**

6

Chapter 7
# 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

| Note | As a part of our policy of continuous improvement, OLIVETTI 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. |

d-Copia 20W

d-Copia 16W

"SPF"
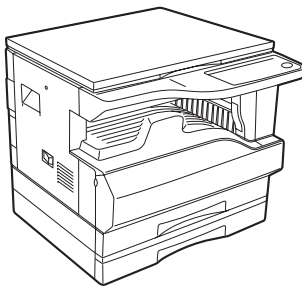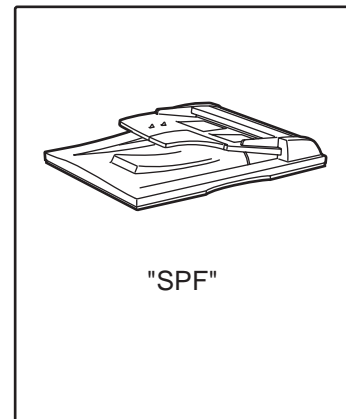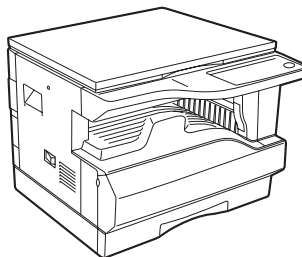
SINGLE PASS FEEDER

For the names of the parts of the SPF, see "PART NAMES AND FUNCTIONS". (p.8)

Specifications

		SPF-16W (Single pass feeder)
Acceptable original	Weight	56 g/m^2 to 90 g/m^2 (15 lbs. to 24 lbs.)
	Size	A5 to A3 (5-1/2" x 8-1/2" to 11" x 17") (5-1/2 x 8-1/2" size originals cannot be used in the duplex copy mode.)
	Capacity	Up to 40 sheets (Thickness 4 mm (5/32") and below) For B4 (8-1/2" x 13") and larger sizes, up to 30 sheets
Detectable original sizes*		A5, B5, B5R, A4, A4R, B4, A3 (5-1/2" x 8-1/2", 8-1/2" x 11", 8-1/2" x 11"R, 8-1/2" x 13", 8-1/2" x 14", 11" x 17")
Weight		5.0 kg (11.1 lbs.)
Dimensions		583 mm (W) x 435 mm (D) x 133 mm (H) (22-61/64" (W) x 17-9/64" (D) x 5-1/4" (H))

* The detectable original sizes vary by country and region.

STORAGE OF SUPPLIES

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

olivetti
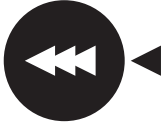
GENUINE SUPPLIES

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

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.

7

8

Chapter 8
APPENDIX

SPECIFICATIONS

Model	d-Copia 16W	d-Copia 20W
Type	Digital Multifunctional System, Desktop	
Photoconductive type	OPC drum	
Document glass type	Fixed	
Copy system	Dry, electrostatic transfer	
Originals	Sheets, bound documents	
Original sizes	Max. A3 (11" x 17")	
Copy size	Max. A3 (11" x 17") Min. A6 (5-1/2" x 8-1/2") (A6 must be fed from the bypass tray) Image loss: Max. 4 mm (5/32") (leading and trailing edges) Max. 4 mm (5/32") (along other edges in total)	
Copying speed (one-sided copying at 100% copy ratio)	9 copies/min. A3 (11" x 17") 10 copies/min. B4 (8-1/2" x 14") 12 copies/min. A4R (8-1/2" x 11"R) 14 copies/min. B5R 16 copies/min. A4, B5R, A5 (8-1/2" x 11", 8-1/2" x 8-1/2")	11 copies/min. A3 (11" x 17") 12 copies/min. B4 (8-1/2" x 14") 14 copies/min. A4R (8-1/2" x 11"R) 16 copies/min. B5R 20 copies/min. A4, B5R, A5 (8-1/2" x 11", 8-1/2" x 8-1/2")
Continuous copy	Max. 999 copies; subtractive counter	
First-copy time*	Approx. 7.2 sec.	
Warm-up time*	Approx. 45 sec.	
Copy ratio	Variable: 25% to 400%, in 1% increments (total 376 steps) Fixed preset: 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200% (50%, 64%, 77%, 95%, 100%, 121%, 129%, 141%, 200%)	
Exposure system	Document glass: Moving optical source, slit exposure (stationary platen) with automatic exposure SPF: Moving original	
Paper feed	One automatic feeding paper tray (250 sheets) + bypass tray (100 sheets)	Two automatic feeding paper trays (250 sheets each) + bypass tray (100 sheets)
Fusing system	Heat rollers	
Developing system	Magnetic brush development	
Light source	Cold cathode fluorescent lamp	
Resolution	Scan: 600 x 300 dpi Output: 600 x 600 dpi (AUTO/TEXT mode) Scan: 600 x 600 dpi Output: 600 x 600 dpi (PHOTO mode)	
Gradation	Scanning: 256 Printing: 2 value	
Power supply	Local voltage ±10% (For this machine's power supply requirements, see the name plate located on the back of the machine.)	
Power consumption	Max. 1.2 kW	
Overall dimensions (with bypass tray folded)	590 mm (W) x 577 mm (D) (23-15/64" (W) x 22-23/32" (D))	

Weight	Approx. 31.3 kg (69.1 lbs.) (Not including toner cartridge)	Approx. 36.3 kg (80.1 lbs.) (Not including toner cartridge)
Dimensions	590 mm (W) x 577 mm (D) x470 mm (H) (23-15/64" (W) x 22-23/32" (D) x 18-33/64" (H))	590 mm (W) x 577 mm (D) x555 mm (H) (23-15/64" (W) x 22-23/32" (D) x 21-55/64" (H))
Operating conditions	Temperature: 15°C to 30°C (59°F to 86°F), Humidity: 20% to 85%	
Noise level	Sound Power Level L_{wA}(1B=10dB) Copying: 6.2[B] Standby: 3.1[B] Sound Pressure Level L_{pA} (bystander positions) Copying: 48[dB(A)] Standby: 16[dB(A)] Sound Pressure Level L_{pA} (operator position) Copying: 50[dB(A)] Standby: 18[dB(A)] Noise emission measurement in accordance with ISO 7779.	
Emission concentration (measured according to RAL-UZ62: Edition Jan. 2002)	Ozone: 0.02 mg/m^3 or less Dust: 0.075 mg/m^3 or less Styrene: 0.07 mg/m^3 or less	

* The first-copy time and warm-up time may vary depending on the power-supply voltage, ambient temperature, and other operating conditions.

Printer Function

Print speed	12 ppm
Resolution	600 dpi
Memory	16 MB
Emulation	GDI
Interface	IEEE1284 parallel connector/ USB connector (USB1.1)

Interface cables	[Parallel cable]
	  Shielded bi-directional (IEEE1284) cable (max. length 3 m (10 feet))
	  Please purchase a commercially available parallel cable.
	[USB cable (only for connection to USB 1.1 connector)]
	  Shielded twisted pair cable (max. length 3 m (10 feet))

Note As a part of our policy of continuous improvement, OLIVETTI 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.

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INDEX BY PURPOSE

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VAROITUS!
LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYTTÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTISTAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄVÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VARNING
OM APPARATEN ANVÄNDS PÅ ANNAT SÄTT ÄN I DENNA BRUKSANVISNING SPECIFICERATS, KAN ANVÄNDAREN UTSÄTTAS FÖR OSYNLIG LASERSTRÅLNING, SOM ÖVERSKRIDER GRÄNSEN FÖR LASERKLASS 1.

Laserstrahl

CAUTION INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.
VORSICHT UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERERÜCKT. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGA UDSAETTELSE FOR STRÅLING.

ADVERSEL USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRRAR ÄR URKOPPLADE, STRÅLEN ÄR FARLIG, BETRAKTA EJ STRÅLEN.
VARO! AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

LUOKAN 1 LASERLAITE

KLASS 1 LASERAPPARAT
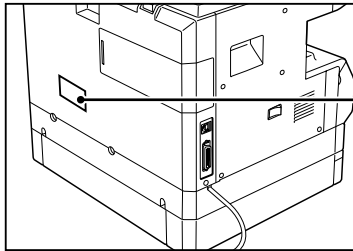
**CLASS 1
LASER PRODUCT**

LASER KLASSE 1

This equipment complies with the requirements of Directives 89/336/EEC and 73/23/EEC as amended by 93/68/EEC.

Dieses Gerät entspricht den Anforderungen der EG-Richtlinien 89/336/EWG und 73/23/EWG mit Änderung 93/68/EWG.

Ce matériel répond aux exigences contenues dans les directives 89/336/CEE et 73/23/CEE modifiées par la directive 93/68/CEE.

Dit apparaat voldoet aan de eisen van de richtlijnen 89/336/EEG en 73/23/EEG, gewijzigd door 93/68/EEG.

Dette udstyr overholder kravene i direktiv nr. 89/336/EEC og 73/23/EEC med tillæg nr. 93/68/EEC.

Quest' apparecchio è conforme ai requisiti delle direttive 89/336/EEC e 73/23/EEC, come emendata dalla direttiva 93/68/EEC.

Este equipamento obedece às exigências das directivas 89/336/CEE e 73/23/CEE, na sua versão corrigida pela directiva 93/68/CEE.

Este aparato satisface las exigencias de las Directivas 89/336/CEE y 73/23/CEE, modificadas por medio de la 93/68/CEE.

Denna utrustning uppfyller kraven enligt riktlinjerna 89/336/EEC och 73/23/EEC så som kompletteras av 93/68/EEC.

Dette produktet oppfyller betingelsene i direktivene 89/336/EEC og 73/23/EEC i endringen 93/68/EEC.

Tämä laite täyttää direktiivien 89/336/EEC ja 73/23/EEC vaatimukset, joita on muutettu direktiivillä 93/68/EEC.

Η συσκευή αυτή πληρεί τις πρόνοιες των Οδηγιών 89/336/ΕΟΚ και 73/23/ΕΟΚ του Συμβουλίου όπως έχουν τροποποιηθεί από την Οδηγία 93/68/ΕΟΚ του Συμβουλίου.

Bu cihaz Konsey Direktifi 93/68/EEC tarafindan düzeltilen 89/336/EEC ve 73/23/EEC Konsey Direktiflerinin gerekliliklerine uygundur.

Tento přístroj je v souladu s požadavky směrnic rady 89/336/EEC a 73/23/EEC, tak jak byly upraveny směrnicí rady 93/68/EEC.

See seade on vastavuses Nõukogu Direktiivis nr 89/336/EEC ja 73/23/EEC esitatud nõuetega, vastavalt Nõukogu Direktiivis nr 93/68/EEC esitatud parandustele.

Ez a készülék megfelel a Tanács által kiadott, 89/336/EGK és 73/23/EGK lrányelveknek és az utóbbit módosító 93/68/EGK lrányelvnek.

Ši ierice atbilst tehniskam prasibam pec 89/336/EEC un 73/23/EEC direktivam papildinats ar direktivu 93/68/EEC.

Šis prietaisas atitinka ES Tarybos direktyvu 89/336/EEC ir 73/23/EEC patikslintos direktyvos 93/68/EEC reikalavimus.

To urządzenie spełnia wymagania dyrektyw 89/336/EEC i 73/23/EEC wraz z poprawkami dyrektywy 93/68/EEC.

Tento prístroj je v súlade s požiadavkami smerníc rady 89/336/EEC a 73/23/EEC tak ako boli upravené smernicou rady 93/68/EEC.

Ta aparat je v skladu z zahtevami Direktiv Sveta 89/336/EEC in 73/23/EEC kot je navedeno v dopolnilu k Direktivi Sveta 93/68/EEC.

The CE mark logo label is affixed on an equipment in case that the directives described in the above sentence are applicable to the product. (This sentence is not applicable in any country where the above directives are not required.)