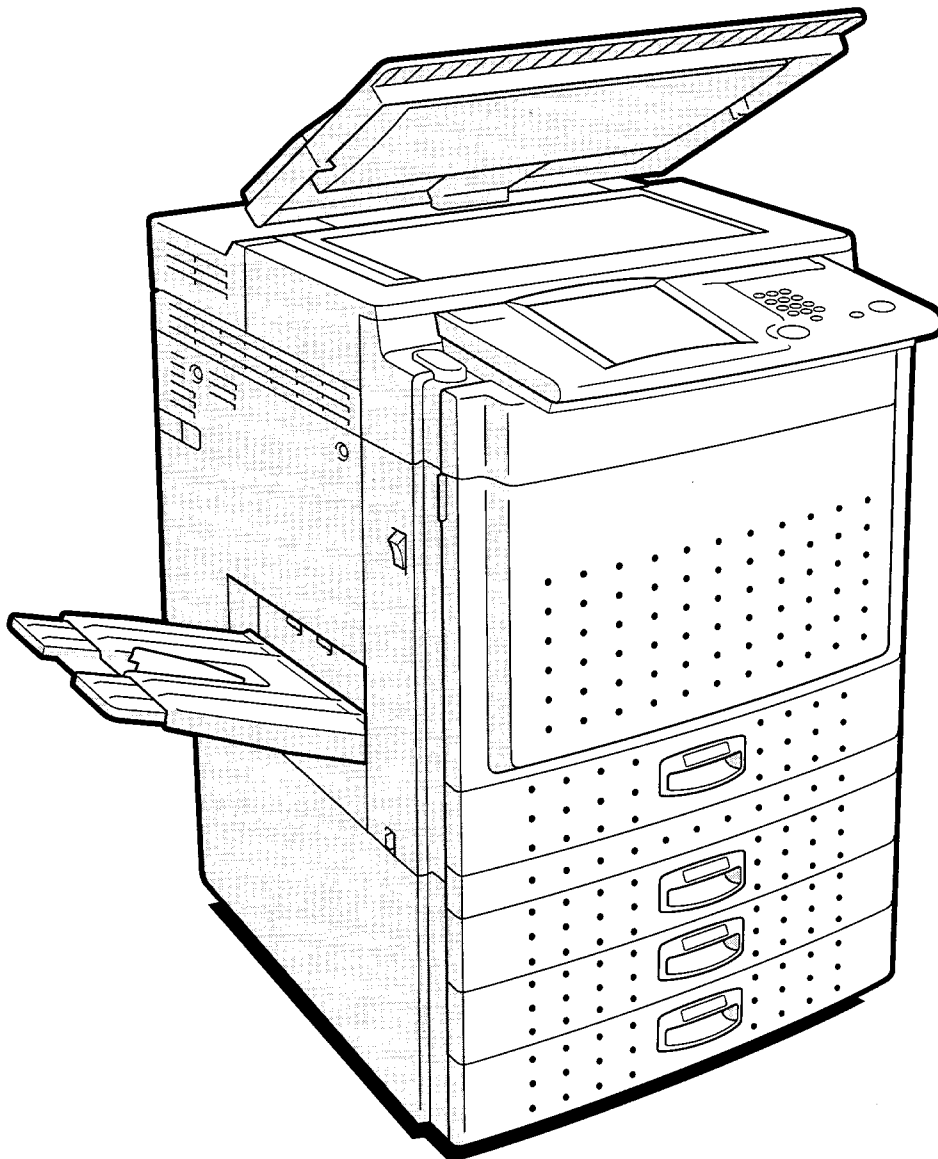


SAVIN

SDC103E

Operating Instructions



Operator Safety:

The SDC103E copier is considered a CDRH class I laser device, safe for office/EDP use. The Copier contains a 10-milliwatt, 760-800 nanometer wavelength, GaAlAs laser diode. Direct (or indirect reflected) eye contact with the laser beam may cause serious eye damage. Safety precautions and interlock mechanisms have been designed to prevent any possible laser beam exposure to the operator.

Laser Safety:

The Center for Devices and Radiological Health (CDRH) prohibits the repair of laser-based optical unit in the field. The optical housing unit can only be repaired in a factory or at a location with the requisite equipment. The laser subsystem is replaceable in the field by a qualified Customer Engineer. The laser chassis is not repairable in the field. Customer engineers are therefore directed to return all chassis and laser subsystems to the factory or service depot when replacement of the optical subsystem is required.

For good copy quality, Savin recommends that you use genuine Savin toner.

Savin shall not be responsible for any damage or expense that may result from the use of parts other than genuine Savin parts in your Savin office product.


Power Source: 120 V, 60 Hz, more than 15A


Please make sure to connect the power cord to a power source as above. For details about power source, see page 2.

SAFETY PRECAUTIONS

About Indications

This manual and product indicate various cautions to allow you to use the product safely in the correct way and to prevent injuries to you or other people and damages to the property. These indications and their meanings are shown below.

 **Warning** *Indicates that a personal death or serious injury might occur if you handle your copier incorrectly ignoring this warning.*

 **Caution** *Indicates that a personal injury or only a property damage might occur if you handle your copier incorrectly ignoring this caution.*

Examples of Indications



△ indicates an item for which you should take care.



⊘ indicates a prohibited operation.
Such an operation is drawn specifically within ⊘.
(The mark on the left indicates “No disassembling.”)



● indicates an operation which is forced or specified to be performed.
Such an operation is drawn specifically within ●.
(The mark on the left instructs you to “remove the plug from the wall outlet.”)

SAFETY PRECAUTIONS

To use your copier safely, the following warnings should always be followed:

WARNINGS



- Connect the copier to a power source meeting the specifications given on the inside front cover of this manual. Avoid multiwiring.
 - Avoid using an extension cord.
 - Do not set anything on the power cord.
 - Do not plug or unplug the power cord with your hands wet. Otherwise, an electric shock might occur.
-



- Make sure that the wall outlet is near the copier and easily accessible.
-



- Do not remove any covers or screws other than those specified in this manual.
 - Do not modify or replace any parts other than those specified in this manual.
-



- When the main switch is in the Stand-by position, the anticondensation heaters are on. In case of emergency, unplug the machine's power cord. Then contact your service representative. Do not keep using the copier with a fault or defect.
 - If foreign matter such as metal, water, or liquid falls inside the copier, turn off the main switch (including the backup switch for some copier types) and unplug the power cord from the wall outlet. Then contact your service representative. If you keep using a faulty copier, a fire or electric shock might occur.
-



- Do not place a vase, flowerpot, glass, receptacle containing water, or metal object on the copier. If the contents fall inside the copier a fire or electric shock might occur.
-



- Do not incinerate toner or toner containers. Toner dust might ignite when exposed to open flames.
-

Warning:

Use of controls or adjustment or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

Note: Some illustrations may be slightly different from your machine.

Note: Certain options may not be available in some countries. For details, please contact your local dealer.

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

The copy samples in this Operating Instructions differ somewhat from actual copies due to printing effects.

This copier has a function that prevents making counterfeit bills. So, if you use an original image that is similar to a bill, you may not get proper copies.

To use your copier safely, the following precautions should always be followed:

⚠ CAUTIONS



- Keep the copier away from humidity and dust. Otherwise, a fire or electric shock might occur.
- The copier must be level within 5 mm, 0.2" both front to rear and left to right.



- After you move the copier, fix it with the caster fixture. Otherwise, the copier might move or fall causing personal injury.



- When you move the copier, unplug the power cord from the wall outlet. Otherwise, the cord might be damaged causing a fire or electric shock.
- When the copier will not be used for a long period, disconnect the power cord.



- When you pull out the plug from the socket, grip the plug to avoid damaging the cord and causing fire or electric shock.



- To avoid possible build-up ozone, make sure to locate this copier in a large well ventilated room that has an air turnover of more than 30 m³/hr/person.



- Do not reuse stapled paper. Do not use aluminum foil, carbon-containing paper or other conductive paper. Otherwise, a fire might occur.



- Since some parts of the copier are supplied with high electrical voltage, touch only the parts specified in this manual otherwise a burn might occur.

TABLE OF CONTENTS

SAFETY PRECAUTIONS	1
About Indications	1
Examples of Indications	1
⚠ WARNINGS	2
⚠ CAUTIONS	3
TABLE OF CONTENTS	4
WHERE IS IT & WHAT IS IT	7
TOUCH PANEL DISPLAY	8
FUNCTION INTRODUCTION BY SAMPLE COPIES	10
Coloring An Image And Changing Colors of An Image	10
Copying Onto A Postcard	11
Enlarging The Photographic Paper Size (Printed Photograph) To A4	11
COPIER EXTERIOR	12
OPTIONS	13
OPERATION PANEL	14
TOUCH PANEL DISPLAY	16
Sample Display and Common Keys	16
COLOR FUNCTIONS	17
FULL COLOR COPY/BLACK COPY	18
SINGLE COLOR	19
Color Conversion	20
COLOR CREATION	20
When editing an area	21
Color Erase	22
When editing an area	23
AREA EDITING	24
Highlight Color	24
Paint Area	26
Delete Area/Save Area	27
COLOR BALANCE	28
Color Balance Adjustment	28
Color Balance Memory (Change)	29
Color Balance Recall	29
IMAGE ADJUSTMENT	30
Background Density Control	30
Pastel	31
Sharp/Soft	31
Auto Color Calibrator	32
USER COLOR CREATION	34
BASIC	35
Non-recommended Originals For The Optional Document Feeder	36
ORIGINALS	36
Recommended Originals	36
Original Sizes Difficult to Detect	37
Original Sizes and Detection Range	37
PAPER	38
Recommended Paper Sizes and Types	38
Non-recommended Paper	39
Paper Storage	39
Paper Loading	39
TONER	40
Handling Toner	40
Toner Storage	40
How To Add Toner	40
Used Toner	40

CHANGING PAPER SIZE	41
Changing Paper Size For Optional Paper Tray Unit	41
USEFUL FUNCTIONS	43
Stand-by	43
Interrupt Copy	43
Auto Start	43
User Code	43
Program	43
COPYING	45
BASIC OPERATION	46
SETTING ORIGINALS	47
Setting originals on the exposure glass (platen glass)	47
Setting originals in the optional document feeder	48
FUNCTION COMBINATION CHART	49
BASIC FUNCTIONS	50
Color Selection	50
Image Density Adjustment	51
Original Image Type Selection	52
Auto Reduce/Enlarge	53
Copy Paper Selection	53
COPYING FROM THE BYPASS FEED TABLE	54
When Copying Onto OHP Sheets or Thick Paper	55
Two-Sided Copies	56
INTERRUPT COPYING	58
Preset Reduce/Enlarge	59
ZOOM AND PRESET REDUCE/ENLARGE	59
ZOOM	61
DIRECTIONAL MAGNIFICATION	62
MARGIN ADJUSTMENT	63
CENTERING	64
FULL IMAGE	65
MAKING ONE-SIDED COPIES FROM VARIOUS ORIGINALS	66
COMBINATION COPYING	67
TWO-SIDED COPYING	69
SORT/STACK AND STAPLE	72
Sort/Stack	72
Staple	73
Auto Staple	73
Manual Staple	73
PROGRAM	74
Program Memory/Recall	74
Program Recall	75
WHEN COPYING A LARGE ORIGINAL	76
Removing the platen cover	76
Attaching the platen cover	76
AREA EDITING	77
WHAT IS AREA EDITING	78
Function Combination Chart	78
BASIC OPERATION OF AREA EDITING	79
DESIGNATING AREAS	82
Operating the Area Designation Screen	82
How to Designate An Area	83
CHANGING THE COPIER'S SETTINGS	87
CHANGING THE COPIER'S SETTINGS	88
Resetting The Copier's Settings	89
FUNCTION OVERVIEW	90
User Tool Menu	92

WHAT TO DO IF SOMETHING GOES WRONG	99
IF YOU CANNOT MAKE COPIES AS YOU WANT	100
IS LIT: LOADING PAPER	102
IS LIT OR BLINKING: ADDING TONER	103
Adding Black Toner	103
Adding Color Toner	105
IS LIT: CLEARING MISFEEDS	107
When A and/or B Is Lit	107
When C Is Lit	109
When D Is Lit	111
When P Is Lit	112
When R Is Lit	112
When Y Is Lit	113
When Z Is Lit	113
IS LIT: ADDING STAPLES	115
REMOVING JAMMED STAPLES	117
IF YOU CANNOT START COPYING	120
MAINTAINING YOUR COPIER.....	123
WHERE TO PUT YOUR COPIER	123
DO'S AND DON'TS	123
IF YOUR COPIER DOES NOT OPERATE AS YOU WANT	124
DO'S AND DON'TS	125
Storing Color Copies	125
WHERE TO PUT YOUR COPIER	126
When Moving The Copier To The Same Level	126
Copier Environment After Moving	126
Space Required for Installing The Copier	127
Power Connection	127
Cleaning The Exposure Glass (Platen Glass)	128
Cleaning The Platen Cover	128
Cleaning The ADF Belt	128
MAINTAINING YOUR COPIER.....	128
PROJECTOR UNIT (OPTION) OPERATION	129
GUIDE TO COMPONENTS	130
BEFORE OPERATING THE PROJECTOR	132
Available Films And Setting	132
About Copying	132
Notes For Operation	133
OPERATION FLOW	134
SETTING THE PROJECTOR IN POSITION	135
SHADING.....	136
Setting Copier's Functions	140
Adjusting The Color Tone And Brightness	141
Changing The Copy Settings	141
Exiting The Projector Mode	143
IF THE PROJECTOR UNIT DOES NOT OPERATE AS YOU WANT	144
DAILY MAINTENANCE	146
SPECIFICATIONS	147
COPIER	148
DOCUMENT FEEDER	150
PAPER TRAY UNIT	150
SORTER STAPLER	151
PPC TABLE	152
PPC FILM PROJECTOR	152
INDEX	153

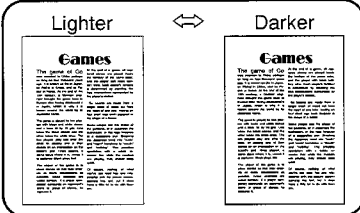
WHERE IS IT & WHAT IS IT

WHERE IS IT & WHAT IS IT

Image Adjustment ➔ See page 30.

Background Density Control ➔ See page 30.

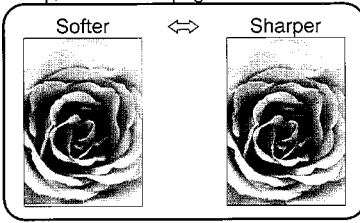
Lighter ⇔ Darker



Auto Color Calibrator ➔ See page 32.

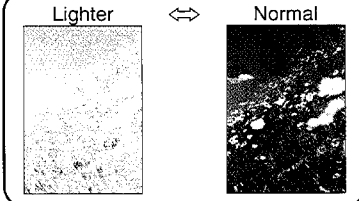
Sharp/Soft ➔ See page 31.

Softer ⇔ Sharper



Pastel ➔ See page 31.

Lighter ⇔ Normal



Original Image Type Selection
➔ See page 52.

Copy Paper Selection
➔ See page 53.

Auto Reduce/Enlarge
➔ See page 53.

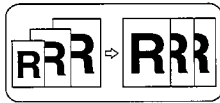
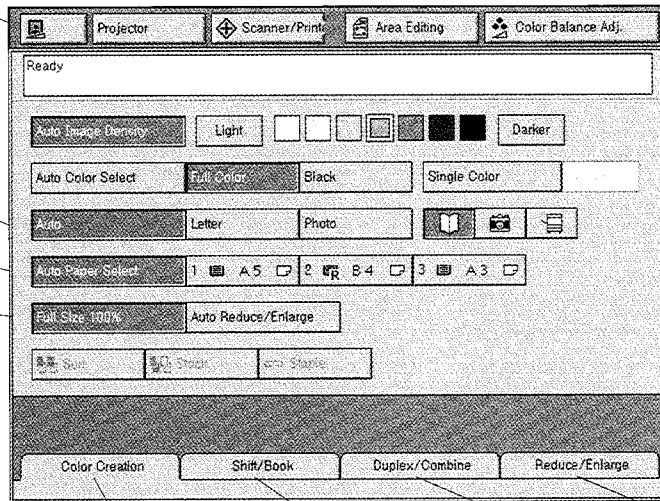





Image Density Adjustment ➔ See page 51.

Color Selection ➔ See page 18.

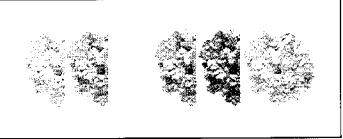
Full Color Copy ➔ See page 18.



Black Copy ➔ See page 18.



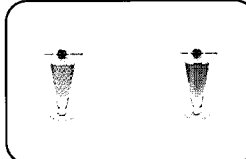
Single Color ➔ See page 19.



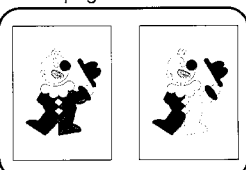
Cyan, Magenta, Yellow, Red, Blue, Green

Color Creation
➔ See page 20.

Color Conversion ➔ See page 20.

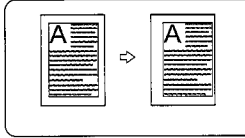


Color Erase ➔ See page 22.

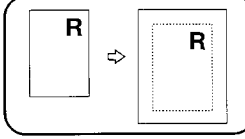


Shift/Book
➔ See page 63.

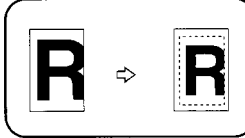
Margin Adjustment ➔ See page 63.



Centering ➔ See page 64.

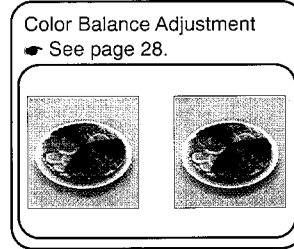


Copy Entire Image ➔ See page 65.



☐ Copy samples are expressed in the print processing mode to clarify the difference between the functions.

Color Balance Adjustment
 See page 28.



Area Editing See pages 24 and 77.

<p>Color Conversion See page 20.</p>	<p>Highlight Color See page 24.</p>	<p>Delete Area See page 26.</p>
<p>Color Erase See page 22.</p>	<p>Paint Area See page 24.</p>	<p>Save Area See page 27.</p>

Sort/Stack/Staple See page 72.

<p>Sort (Optional sorter stapler is required) See page 72.</p>	<p>Staple (Optional sorter stapler is required) See page 73.</p>
<p>Stack (Optional sorter stapler is required) See page 72.</p>	

Reduce/Enlarge See page 59.

Preset Reduce/Enlarge
 See page 59.

Zoom See page 61.

Directional Magnification
 See page 62.

Single Copies/Duplex/Combine See page 66.

<p>Single Copies Book → 1 Sided See page 66.</p>	<p>2 Sided → 1 Sided See page 66.</p>
<p>Combine Combine See page 67.</p>	<p>Combine 4 originals See page 67.</p>

*Optional document feeder is required.

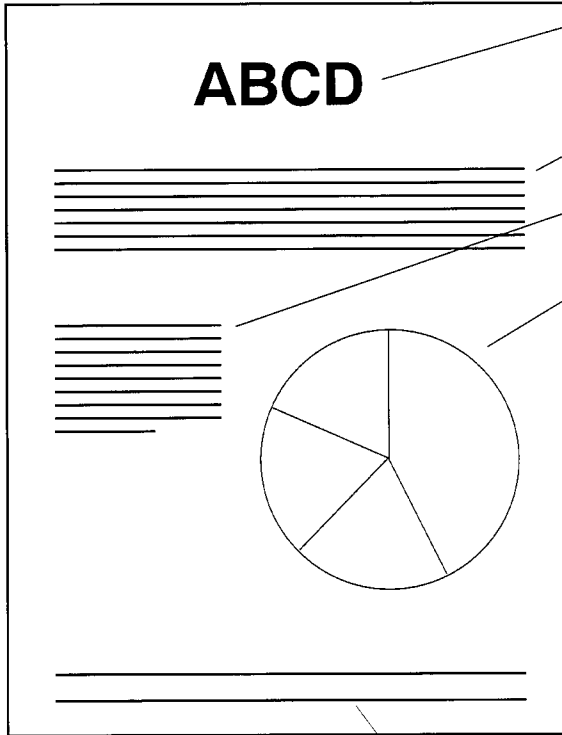
<p>Duplex 1 Sided → 2 Sided See page 69.</p>	<p>2 Sided → 2 Sided See page 69.</p>
<p>Single See page 69.</p>	<p>Multi See page 69.</p>

*Optional document feeder is required.

FUNCTION INTRODUCTION BY SAMPLE COPIES

Coloring An Image And Changing Colors of An Image

- ☐ Designate areas with a broken line or a frame and specify functions. ➤ See page 24, "AREA EDITING."



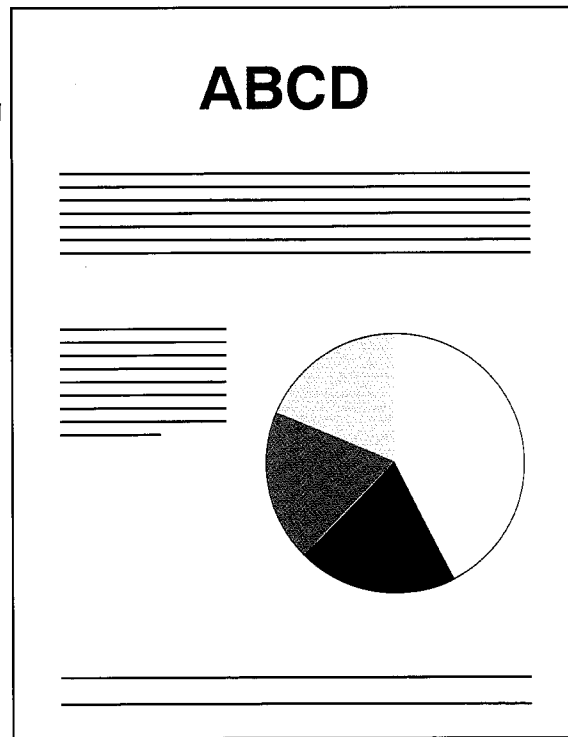
Turn the letters green. ➤ See page 20, "Color Conversion" and page 19, "Color Selection (Single Color)."

Color the background of the image. ➤ See page 24, "Highlight Color."

Erase the character strings. ➤ See page 27, "Delete Area."

Fill the areas with colors. ➤ See page 26, "Paint Area."

Erase the red letters. ➤ See page 22, "Color Erase."

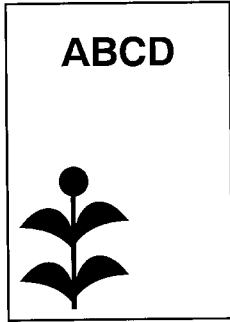


Operational Procedure

- 1** Touch the **[Area Editing]** key and set your original.
 - 2** Touch the **[Scan]** key and select the way to designate an area (**[Rectangle]**, **[Polygon 1]**, **[Polygon 2]**, **[Closed Loop]**). ➤ See page 83, "How To Designate An Area."
 - 3** Use the **Cursor** and **Point** keys to designate the area.
 - 4** Select modes for inside the area and touch the **[Exit]** key.
 - 5** Touch the **[Outside (Area)]** key. Specify an edit function and touch the **[Exit]** key.
 - 6** Touch the **[Exit]** key .
 - 7** When you specify Highlight Color, select color modes.
- ☐ You can also fill (paint) a frame with a created color or make copies in a color (single color copying in area editing). ➤ See page 98, "USER TOOLS, [12] Create A User Color."

Copying Onto A Postcard

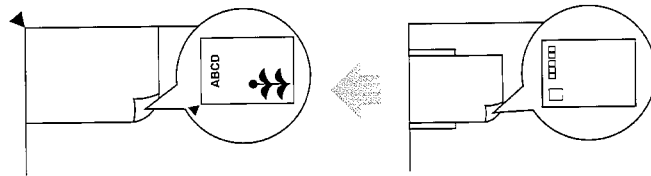
- ☐ The copier copies onto postcards using the bypass feed tray. Be sure to set a postcard in the correct direction.



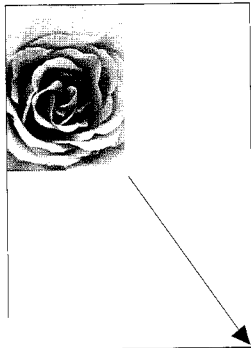
Operational Procedure

- 1** Touch the **[Full Color]** key.
- 2** Set your original.
- 3** Open the bypass feed table and touch the paper size on the touch panel display.
- 4** Set a postcard in the bypass feed table. Touch the **[H (horizontal)]** key and touch the **[Thick Paper]** key. See page 54, "COPYING FROM THE BYPASS FEED TABLE."

◆ Direction of setting an original and postcard




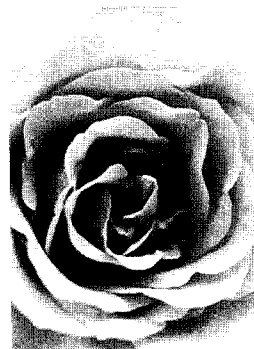
Enlarging The Photographic Paper Size (Printed Photograph) To A4



(88 x 127 mm)

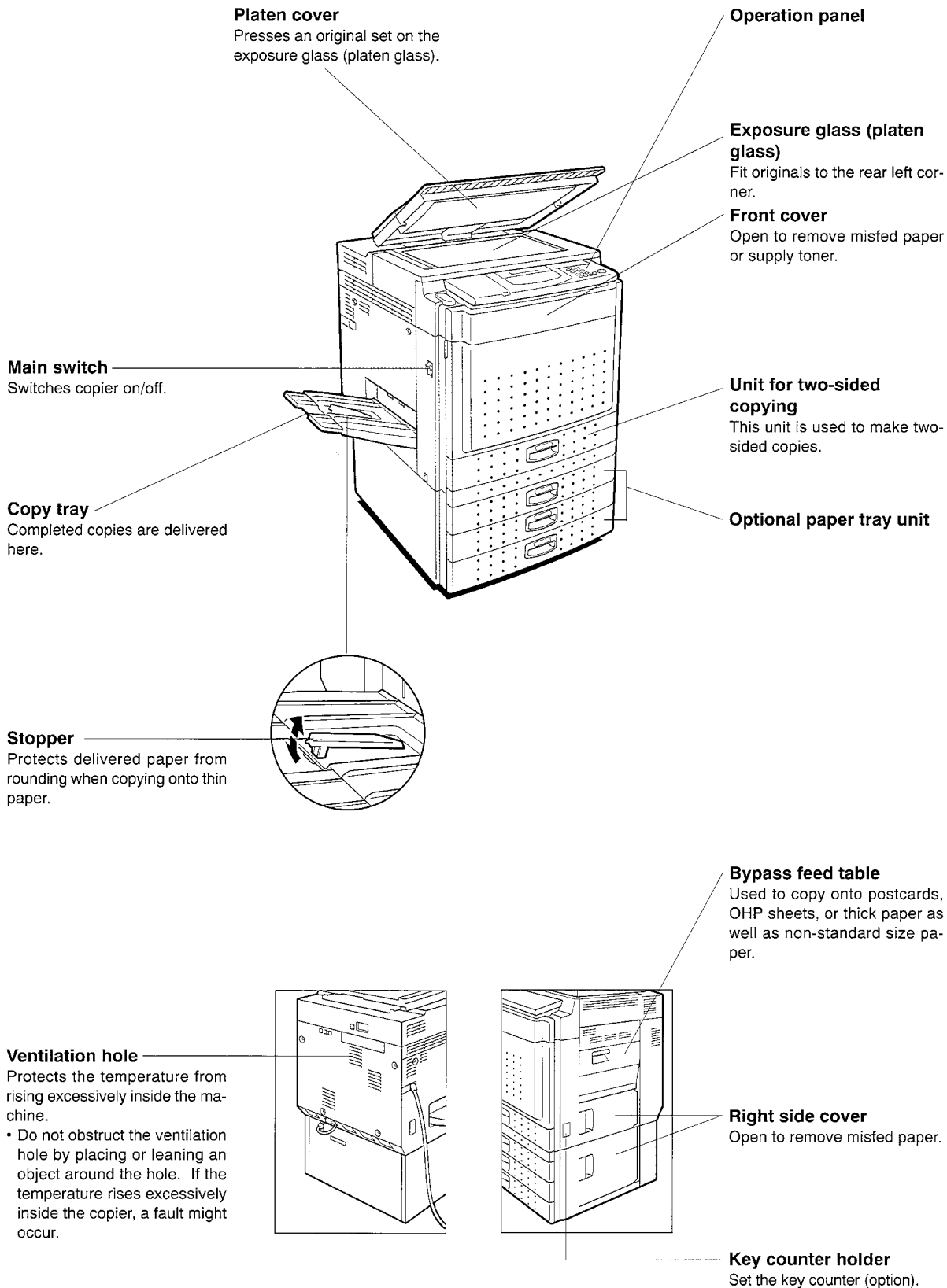
Operational Procedure

- 1** Touch the **[Full Color]** key.
- 2** Touch  to specify the photograph type.
➔ See page 52, "Original Image Type Selection."
- 3** Touch the **[Reduce/Enlarge]** key and specify the exact magnification using the **[+]** and **[-]** keys or the **[Number Keys]** key. ➔ See page 61, "ZOOM."



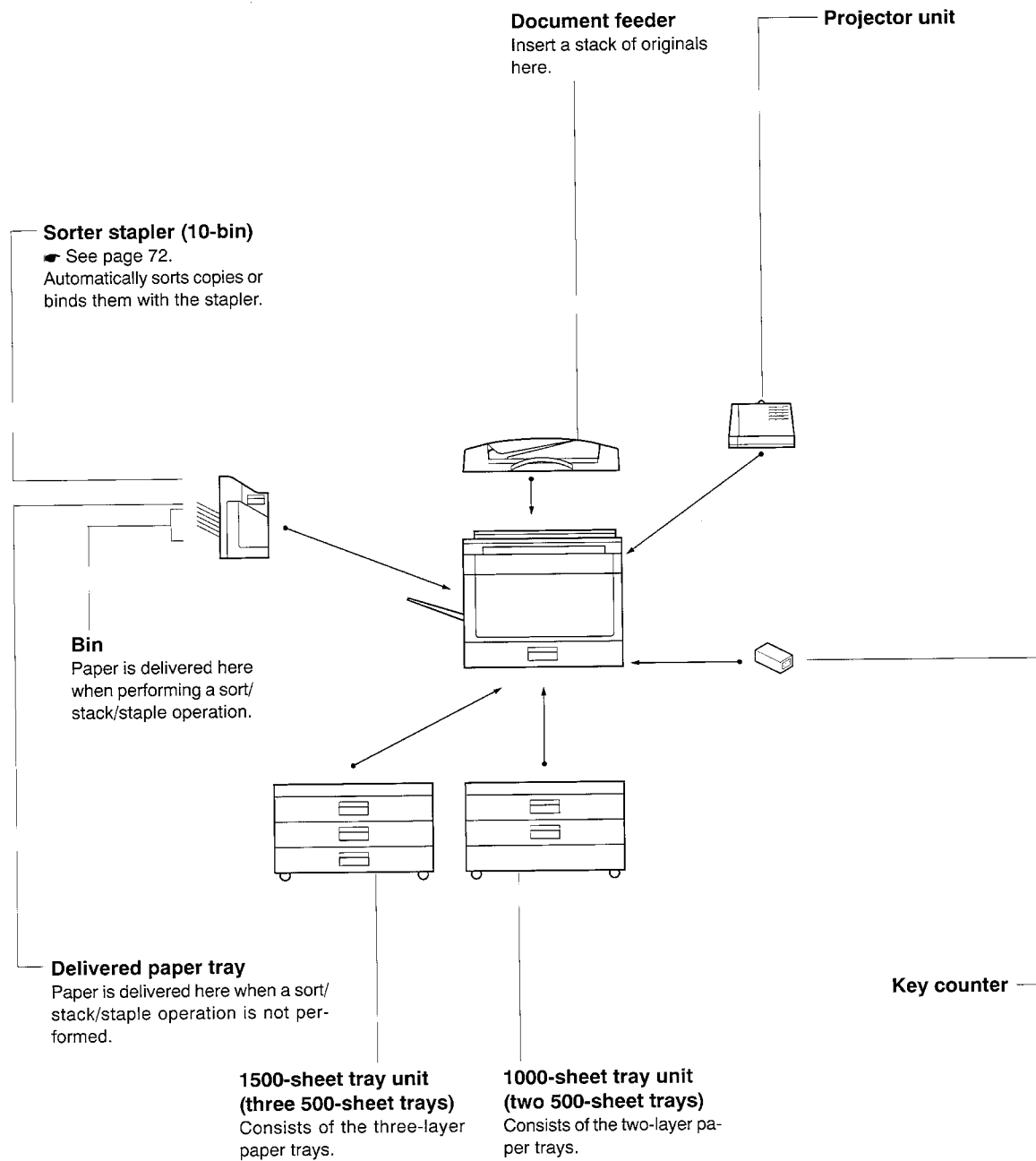
A4 size (232 %)

COPIER EXTERIOR



OPTIONS

WHERE IS IT & WHAT IS IT



☐ For the paper tray unit, either the 1000-sheet tray unit or the 1500-sheet tray unit can be attached.

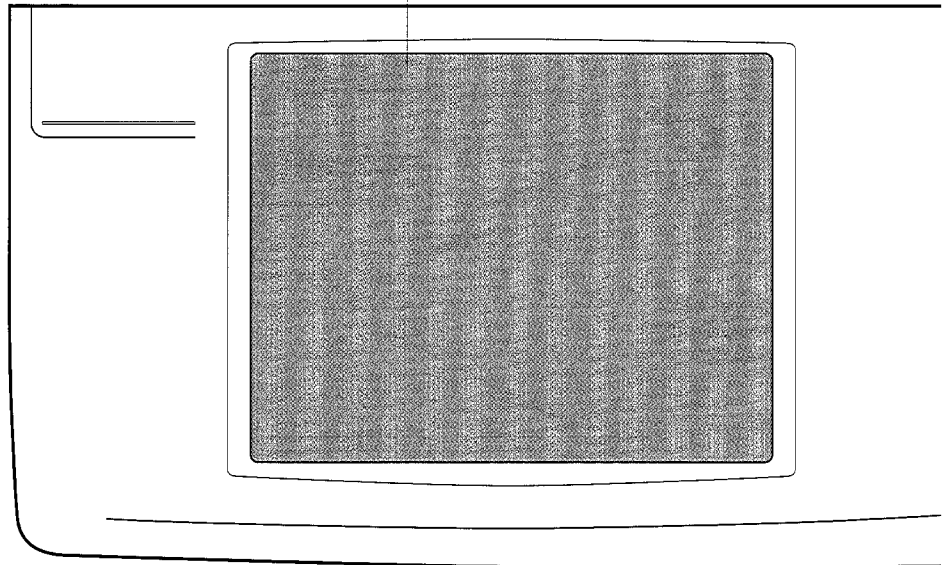
OPERATION PANEL

Touch Panel Display

Shows operation status and messages. See page 8, "TOUCH PANEL DISPLAY."

Copy Counter

Indicates the specified number of copies before a copy run, and the number of copies made or rest of copies to be made during a copy run.



Number Keys, . Key

Use to enter a value for the number of copies, magnification, etc.

Cursor Key

Moves the cursor (->) to designate an area on an image.

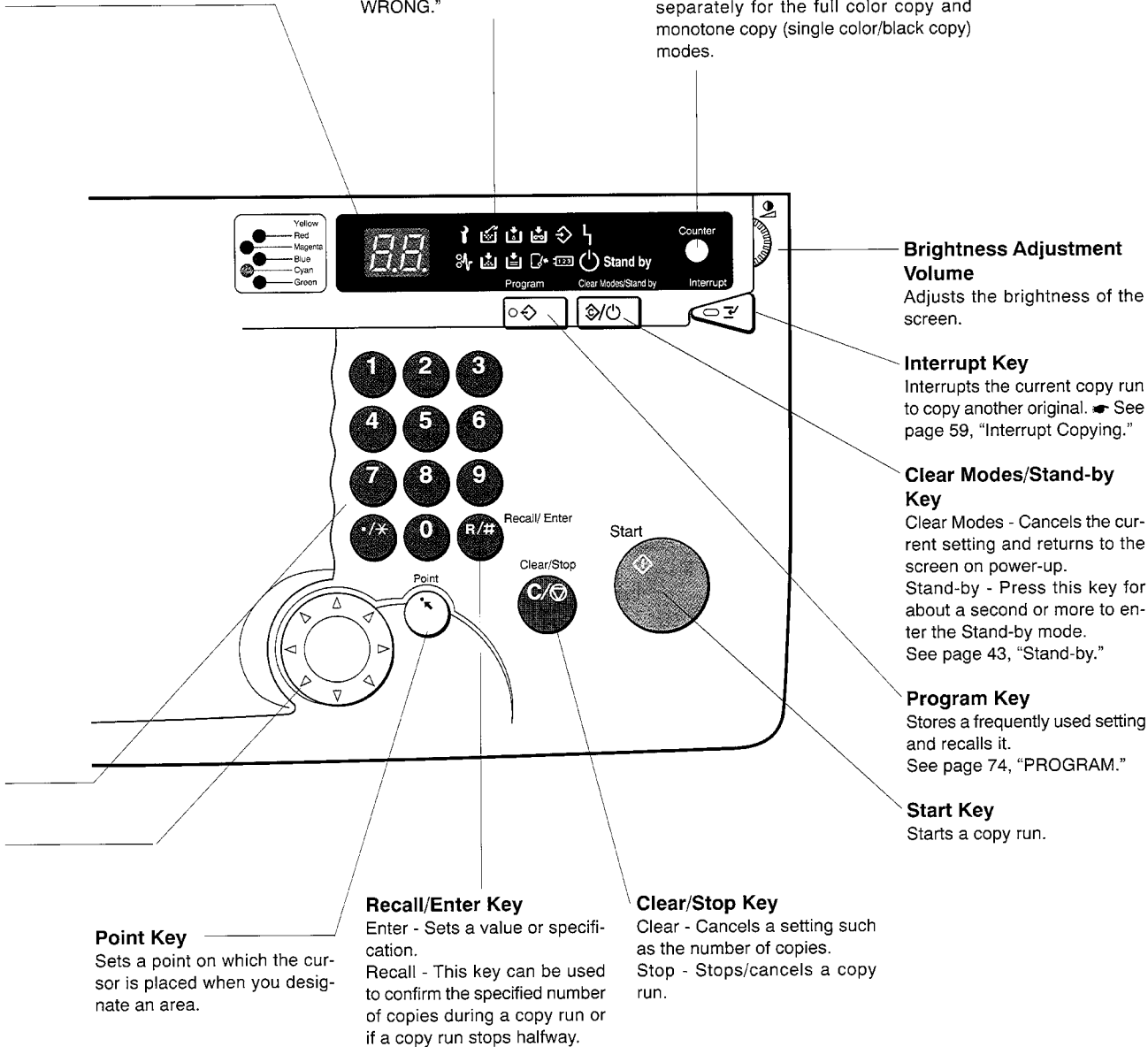
- When you press the **Cursor** key after touching the **[Scroll Screen]** key, the image scrolls on the screen.

- The colors of the copier illustrated below might slightly differ from the actual colors of your copier.
- The colors on sample copies illustrated below might slightly differ from those on actual copies.

This section indicates error status. See page 99, "WHAT TO DO IF SOMETHING GOES WRONG."

Counter Key

Indicates the total number of copies made.
 □ The number of copies made is indicated separately for the full color copy and monochrome copy (single color/black copy) modes.



Brightness Adjustment Volume
 Adjusts the brightness of the screen.

Interrupt Key
 Interrupts the current copy run to copy another original. See page 59, "Interrupt Copying."

Clear Modes/Stand-by Key
 Clear Modes - Cancels the current setting and returns to the screen on power-up.
 Stand-by - Press this key for about a second or more to enter the Stand-by mode. See page 43, "Stand-by."

Program Key
 Stores a frequently used setting and recalls it. See page 74, "PROGRAM."

Start Key
 Starts a copy run.

Point Key
 Sets a point on which the cursor is placed when you designate an area.

Recall/Enter Key
 Enter - Sets a value or specification.
 Recall - This key can be used to confirm the specified number of copies during a copy run or if a copy run stops halfway.

Clear/Stop Key
 Clear - Cancels a setting such as the number of copies.
 Stop - Stops/cancels a copy run.

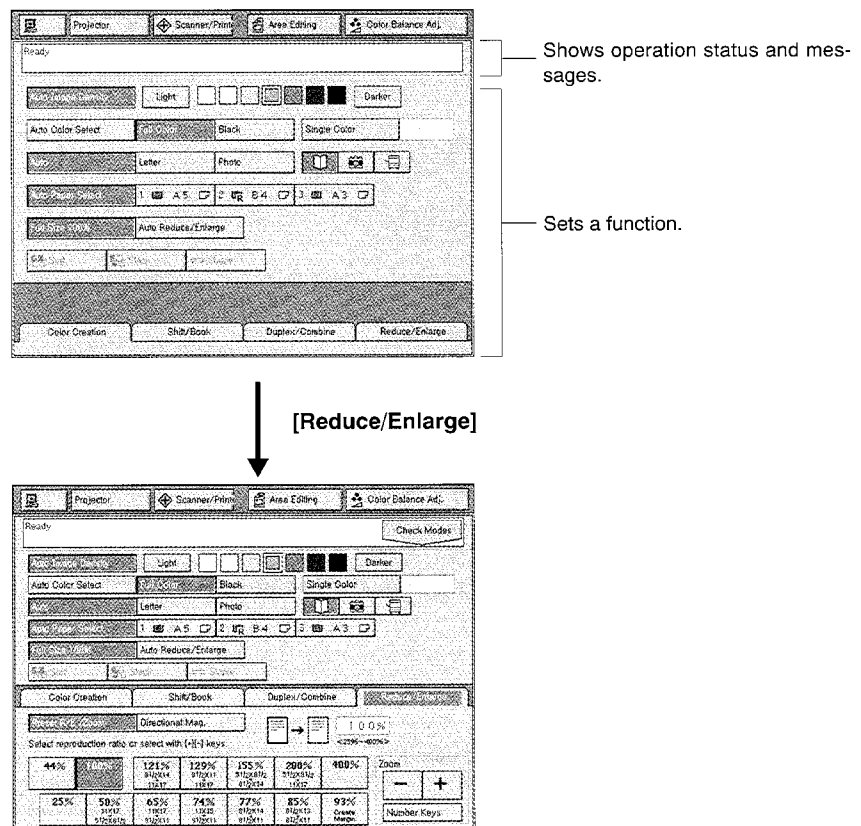
TOUCH PANEL DISPLAY

- The function items are displayed as touch keys. You can touch these keys lightly to select or specify the corresponding items.
- When you select or specify a function, it is highlighted like **Auto Image Density**. An unavailable key is grayed like **Auto Reduce/Enlarge**.
- Different keys or information might appear on the display depending on the option configuration.

Important

- Do not apply a strong shock or force of 30 N (3 kgf) or more to the touch panel display. Otherwise, the display might be damaged.
N = Newton, kgf = Kilogram-force (1 kgf = 9.8 N)

Sample Display and Common Keys



◆ Common keys

- **[Cancel]** Cancels a specified function and returns to the previous screen.
- **[Exit]** Sets a specified function and returns to the previous screen.

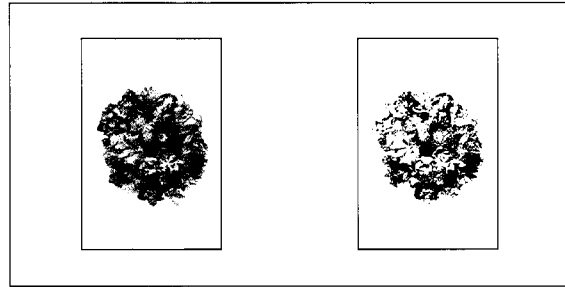
COLOR FUNCTIONS

COLOR FUNCTIONS

FULL COLOR COPY/BLACK COPY

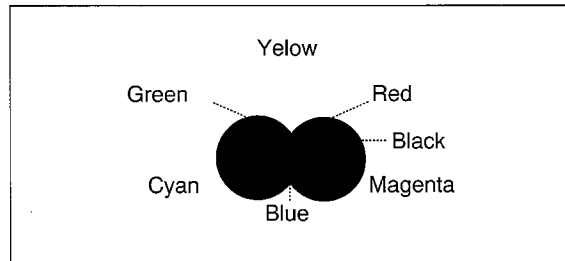
The Full Color Copy function overlays the four colors (yellow, magenta, cyan, and black) to make copies in colors close to those of originals.

The Black Copy function makes copies in black regardless of colors of originals.

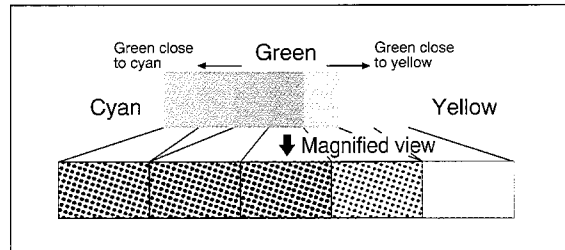


Three fundamental colors

- Yellow, magenta, and cyan (three fundamental colors) can be combined to express the seven colors shown in the figure below. If yellow, magenta, and cyan are overlaid, black is created. However, this copier uses the black toner to express black because the black made from the three fundamental colors slightly differs from actual black in the strict sense.
- This copier adjusts the amount of the yellow, magenta, and cyan toner to express green close to yellow (yellowish green) or cyan (bluish green).

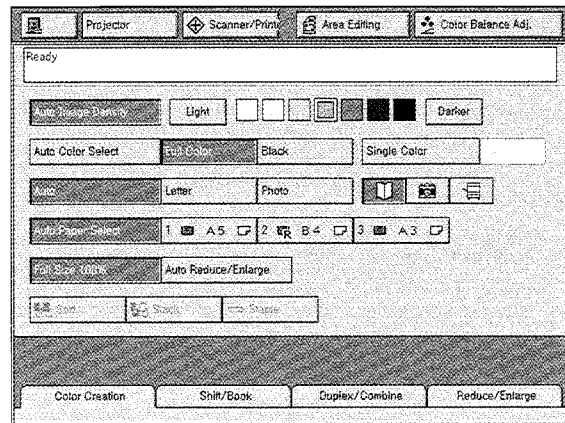


Difference between greens when combining yellow and cyan



1 Touch the **[Full Color]** or **[Black]** key.

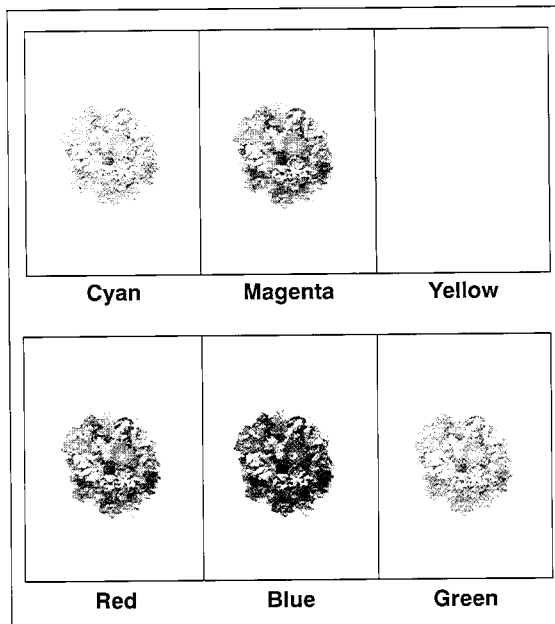
- When you do not set any other function, press the **Start** key to start a copy operation.
- You can adjust the overall color tone of a copy or the edges of an image. See "COLOR BALANCE ADJUSTMENT" for the overall color tone of a copy, and "Sharp/Soft" for the edges of an image.
 - See page 28, "COLOR BALANCE ADJUSTMENT" and page 31, "Sharp/Soft."



SINGLE COLOR

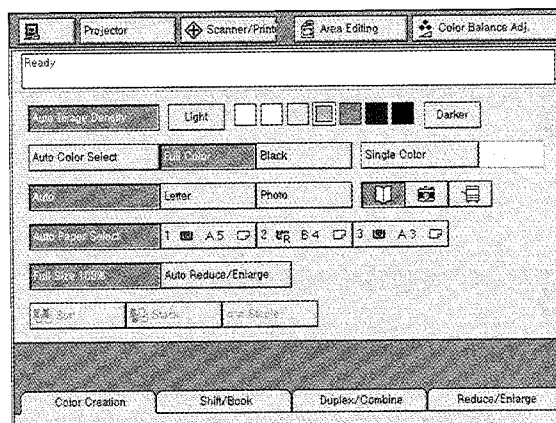
This function makes copies in a specified color. For single color copying, you can choose yellow, red, magenta, blue, cyan, or green.

- ❑ Although still monochrome, some colors you select may be created with 2 toners. This is because yellow, magenta and cyan are created with a single toner, while red, blue and green use two toners.
- ❑ If you create a color using the user tool, you can select it as a registered color in area editing. See page 98, "USER TOOLS, Create A User Color."



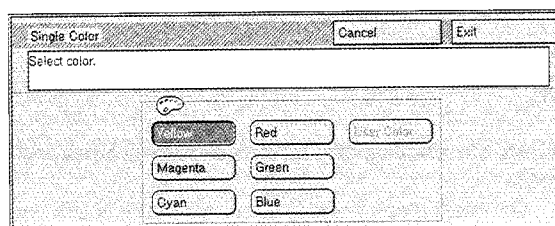
COLOR FUNCTIONS

1 Touch the [Single Color] key



2 Select a color to be copied and touch the [Exit] key.

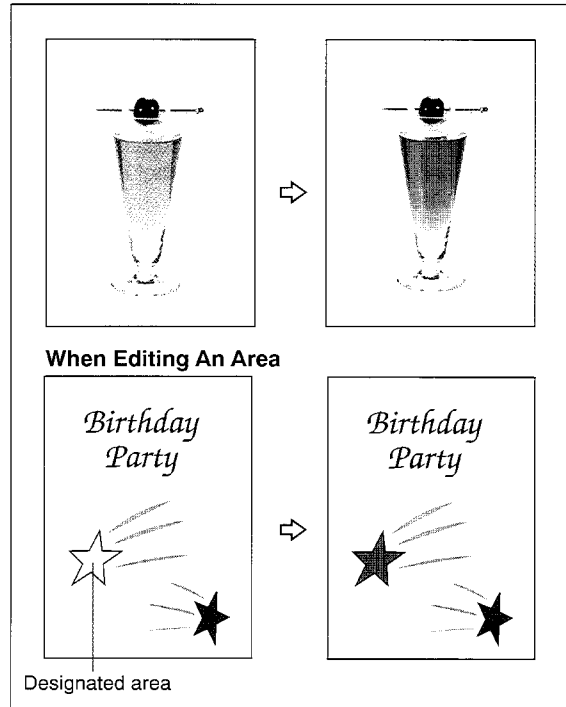
- ❑ When you do not set any other function, press the Start key to start a copy operation.



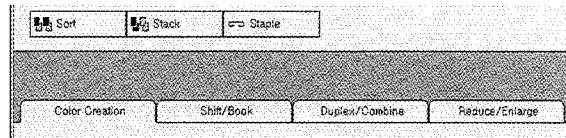
Color Conversion

This function converts a selected color of an original into a different color on the copy.

- When you specify the Color Conversion function, the color mode is set to "Full Color Copy."
- You can convert up to four colors. However, you can convert only two colors in editing an area.
- The color range to be converted can be adjusted within 5 levels. For example, when you specify yellow with the color width set to "Wide," other colors close to yellow, such as orange and yellowish green, are also converted. When you set the color width to "Narrow," only yellow is converted. You can adjust the color width with the user tools.
 - See page 94, "USER TOOLS, Color Sensitivity Adjustment."
- You can specify the following nine colors: yellow, magenta, cyan, green, blue, red, white, black, and a user color.



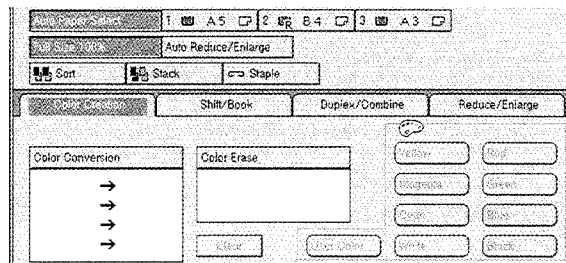
1 Touch the **[Color Creation]** key.



2 Touch the **[Color Conversion]** key.

3 Touch a color before conversion.

- When changing the selected color, touch the **[Clear]** key and select another color.



4 Touch a color after conversion.

When converting two or more colors consecutively

- ➊ Repeat steps **3** and **4** above for all the colors you want to convert.
- 5** Set your original and press the **Start** key.

When editing an area

1 Touch the **[Area Editing]** key and designate an area.

☐ “DESIGNATING AREAS” ➔ See page 82.

2 Touch the **[Color Creation 1]** or **[Color Creation 2]** key and touch the **[Color Conversion]** key.

- When converting colors, you can specify only two types of conversion (**[Color Creation 1]** and **[Color Creation 2]**) for all the designated areas.

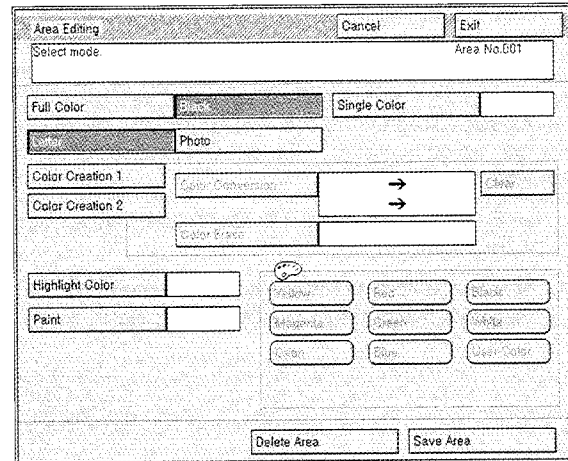
3 Touch a color you wish to convert (source) and one to convert to (final).

- When changing the selected color, touch the **[Clear]** key and select another color.
- To convert another color consecutively, repeat step **3**.

4 Touch the **[Exit]** key.

5 Touch the **[Exit]** key after specifying the way to edit images outside the area.

☐ Step **5** and later in “BASIC OPERATION OF AREA EDITING” ➔ See page 80.

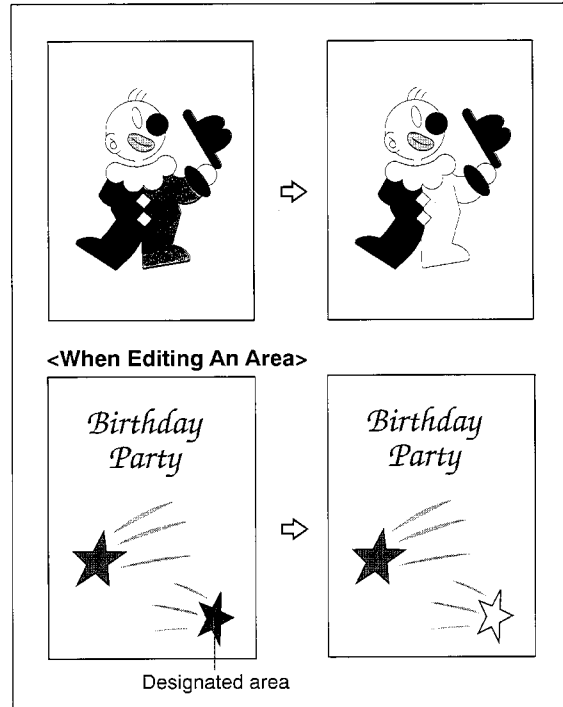


COLOR FUNCTIONS

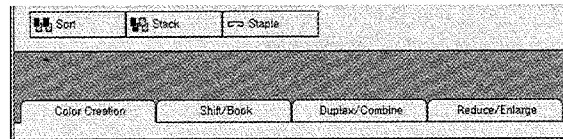
Color Erase

This function erases a selected color from an original image.

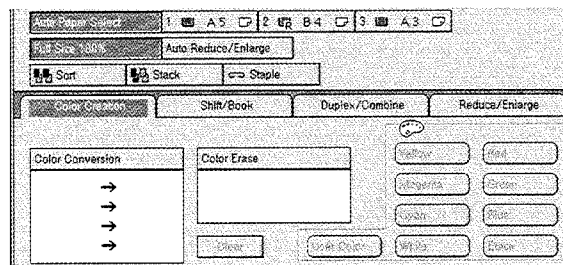
- You can convert up to four colors. However, you can convert only two colors in editing an area.
- You can adjust the width of a color to be erased within 5 levels. For example, when you specify yellow with the color width set to "Wide," other colors close to yellow, such as orange and yellowish green, are also erased. When you set the color width to "Narrow," only yellow is erased. You can adjust the color width with the user tool.
 - See page 94, "USER TOOLS, Color Sensitivity Adjustment."
- You can specify the following seven colors: yellow, magenta, cyan, green, blue, red, and black.



1 Touch the **[Color Creation]** key.



2 Touch the **[Color Erase]** key.



3 Touch a color to be erased.

- When changing the selected color, touch the **[Clear]** key and select another color.

When erasing two or more colors consecutively

- ① Repeat step **3** above for all the colors you want to erase.

When editing an area

1 Touch the **[Area Editing]** key and designate an area.

☐ “DESIGNATING AREAS” ➔ See page 82.

2 Touch the **[Color Creation 1]** or **[Color Creation 2]** key and touch the **[Color Erase]** key.

- When converting colors, you can specify only two types of conversion (**[Color Creation 1]** and **[Color Creation 2]**) for all the designated areas.

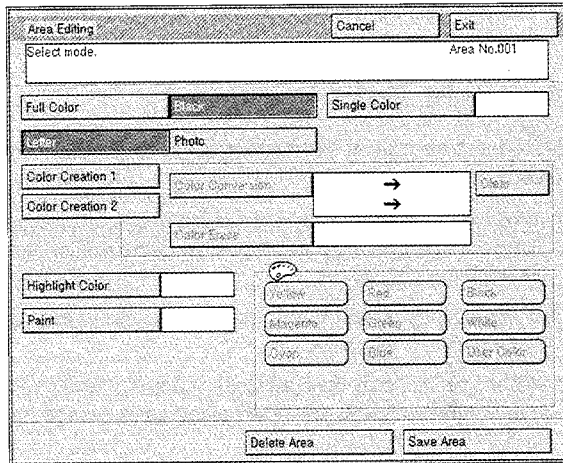
3 Touch a color to be erased.

- When changing the selected color, touch the **[Clear]** key and select another color.
- To erase another color consecutively, repeat step **3**.

4 Touch the **[Exit]** key.

5 Touch the **[Exit]** key after specifying the way to edit images outside the area.

☐ Step **5** and later in “BASIC OPERATION OF AREA EDITING” ➔ See page 80.



AREA EDITING

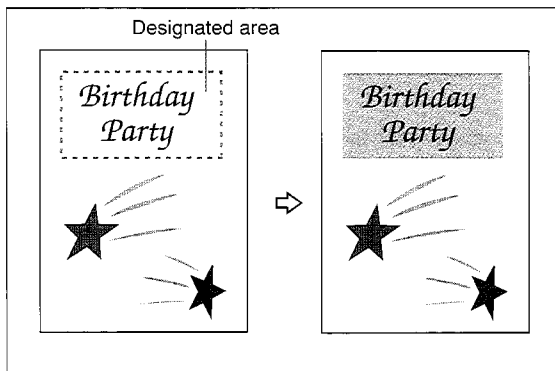
This function designates areas on an original and edits images inside or outside the areas.

- You can specify only one of the “Color Creation 1,” “Color Creation 2,” “Highlight Color,” and “Paint Area” functions in an area.
- You can also convert a selected color of an original or erase a selected color from an original. For the subsequent procedures, see “COLOR CREATION.” ➔ See page 20.

Highlight Color

This function colors the background of a selected area.

- When you make copies in the Highlight Color mode, the colors of the image might be changed because the entire image is colored.
- If you specify a dark highlight color, the entire image might become blackish.
- When you use the Highlight Color function, copies are made in the Letter mode in all color modes except the Full Color Copy mode.
- If you specify “Black” and “Photo” for the Single Color mode when you edit an area in the Full Color mode, the area is copied in gray using the four colors of toner.
- You can specify the following seven colors: yellow, magenta, cyan, green, blue, red, and black.
- You can adjust the background color density within 10 levels. ➔ See page 95, “USER TOOLS, Adjust Highlight.”



1 Touch the **[Area Editing]** key and designate an area.

- ➔ See page 82, “DESIGNATING AREAS.”

2 Touch the **[Highlight Color]** key and select a background color.

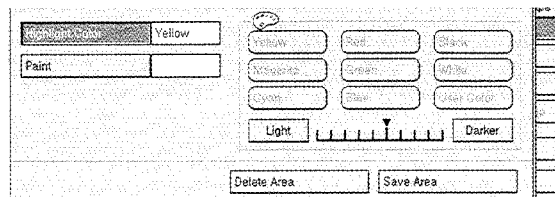
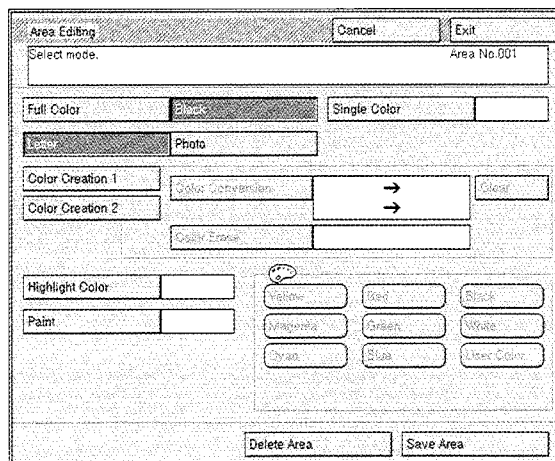
- When changing the selected color, touch the **[Highlight Color]** key again to cancel it and select another color.

3 Select the **[Light]** or **[Dark]** key to adjust the background color density.

4 Touch the **[Exit]** key.

5 Touch the **[Exit]** key after specifying the way to edit images outside the area.

- See page 80, Step **5** and later in “BASIC OPERATION OF AREA EDITING.”



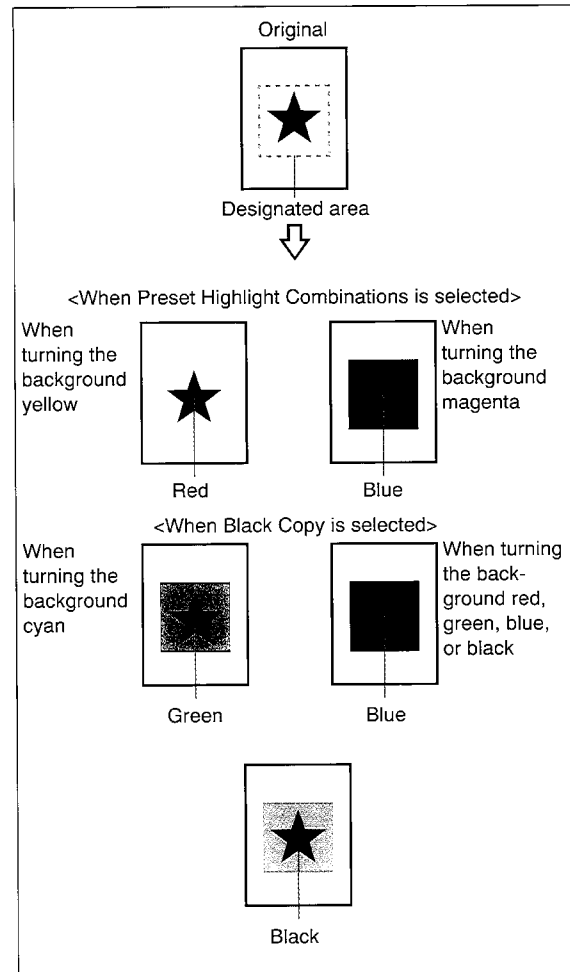
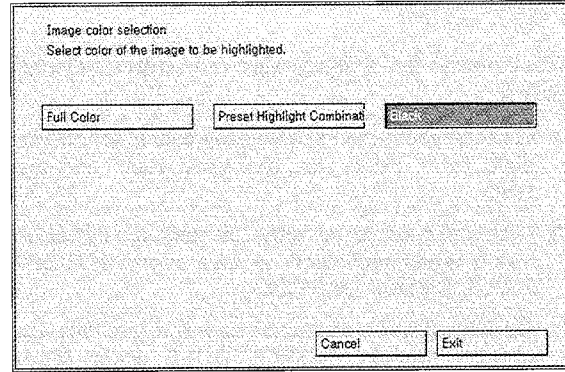
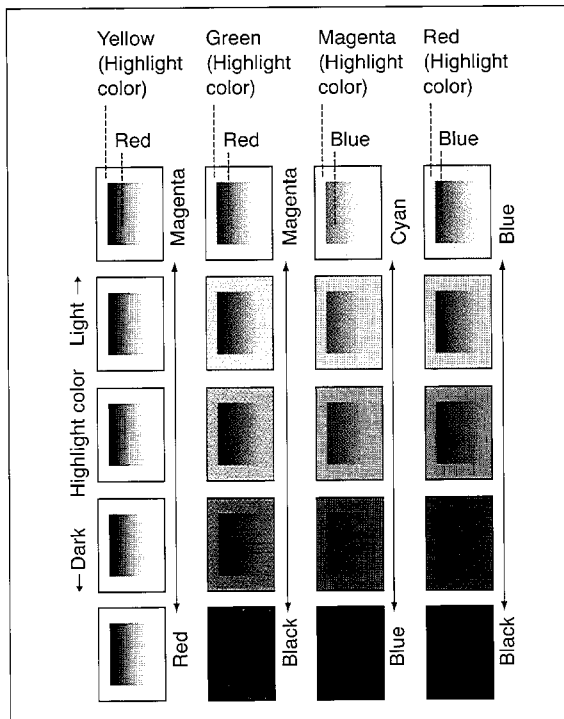
6 Select color modes for the areas for which you have specified the Highlight Color mode and touch the [Exit] key.

The color modes are set for all the areas for which you have specified the Highlight Color mode.

- The image colors differ in the areas depending on the selected color modes.
- When "Full color" is selected
The images are copied with the original colors overlaid on the specified highlight colors.
- When "Black" is selected
The images are copied in black regardless of the colors specified for Highlight Color.
- When "Preset Highlight Combinations" is selected
The image colors differ depending on the colors specified for Highlight Color.
- When you specify a highlight color, the image color overlaid on the highlight color differs depending on the highlight color type and density.
- If you specify a dark highlight color when the highlight color is green or red, the image color overlaid on the highlight color might appear in black.

<Combinational color densities and samples>

- The color contrasts are slightly exaggerated for the purpose of illustration.

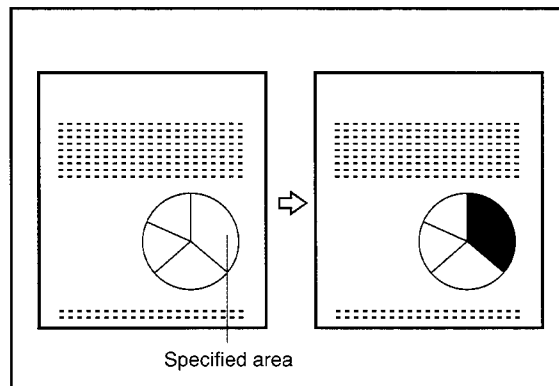


- The image color differs from the above if you specify a lighter color for Highlight Color.

Paint Area

This function fills a designated area with a selected color.

- You can specify the following nine colors: yellow, magenta, cyan, green, blue, red, white, black, and user color.
- If you create a color using the user tool, you can select it as a registered color. ➤ See page 98, "USER TOOLS, Create A User Color."
- You can adjust the paint color density within 10 levels. ➤ See page 95, "USER TOOLS, Paint Mode Brightness."



1 Touch the **[Area Editing]** key and designate an area.

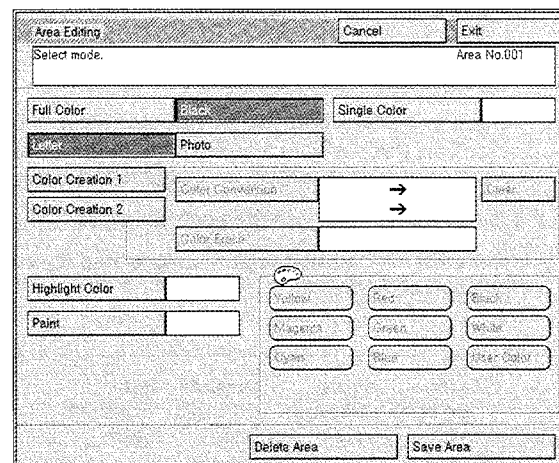
- See page 82, "DESIGNATING AREAS."

2 Touch the **[Paint]** key and select a paint color.

- When changing the selected color, touch the **[Paint]** key again to cancel it and select another color.

3 Select the **[Light]** or **[Dark]** key to adjust the paint color density.

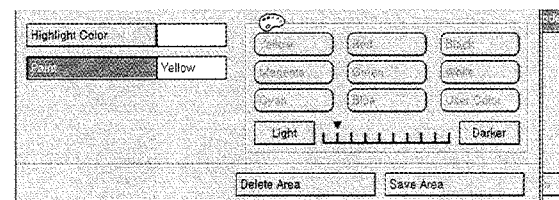
- When a user color is selected, you cannot adjust the paint color density.



4 Touch the **[Exit]** key.

5 Touch the **[Exit]** key after specifying the way to edit images outside the area.

- See page 80, Step **5** and later in "BASIC OPERATION OF AREA EDITING."



Delete Area/Save Area

This function deletes images inside or outside designated areas.

1 Touch the **[Area Editing]** key and designate an area.

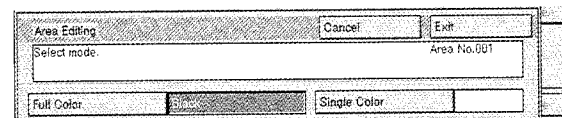
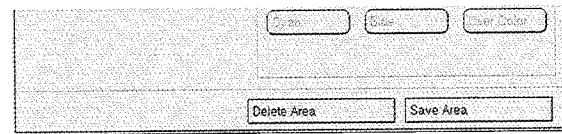
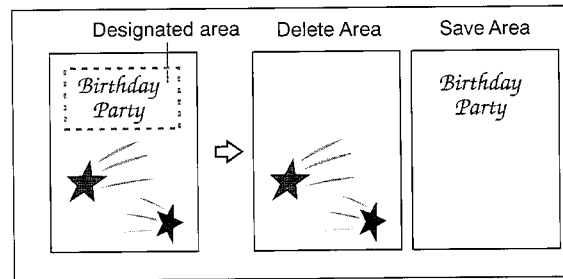
☐ See page 82, "DESIGNATING AREAS."

2 Touch the **[Delete Area]** or **[Save Area]** key.

3 Touch the **[Exit]** key.

4 Touch the **[Exit]** key after specifying the way to edit images outside the area.

☐ See page 80, Step **5** and later in "BASIC OPERATION OF AREA EDITING."

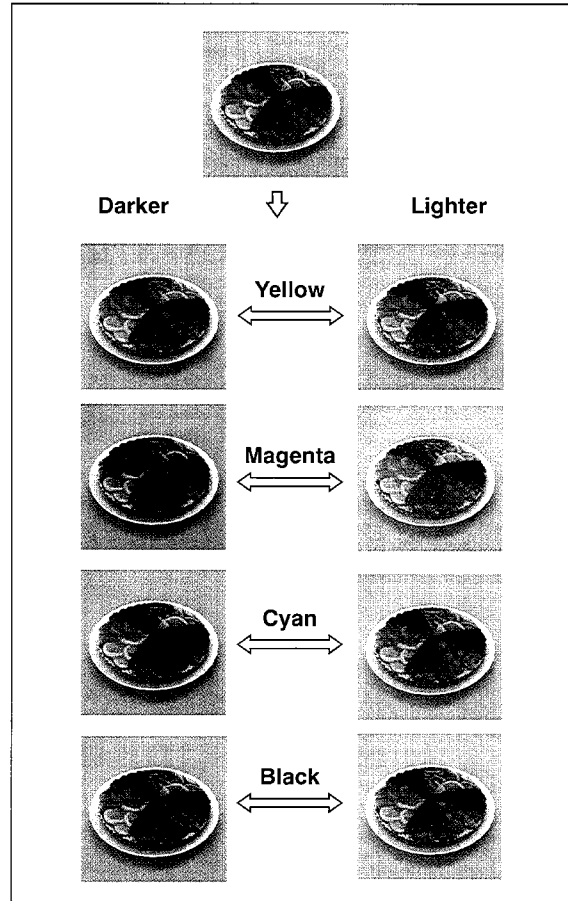


COLOR FUNCTIONS

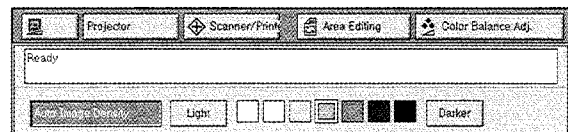
COLOR BALANCE

Color Balance Adjustment

Use this function to adjust the overall color tone of a copy if the copy is entirely reddish or bluish.

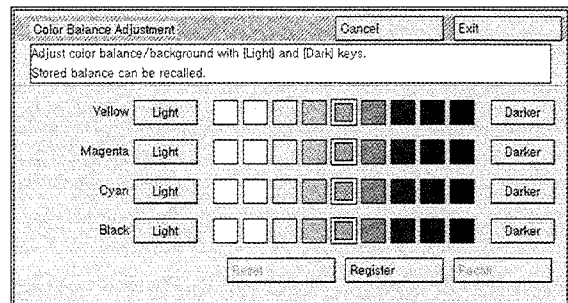


1 Touch the **[Color Balance Adj.]** key.



2 Adjust the color using the **[Light]** and **[Dark]** keys.

- If you specify a wrong value, touch the **[Reset]** key. The color balance setting returns to that specified when the Color Balance Adjustment screen was opened.
- You can store the adjusted color balance setting. See page 29, "Color Balance Memory."



3 Set your original and press the **Start** key.

- When the copier is reset automatically or you press the **Clear Modes/Stand-by** key or turn off the power, the adjusted color balance is reset to the default value.

Color Balance Memory (Change)

This function can be used to store a color balance adjustment setting into memory.

- You can store only one color balance setting.
- When you want to change a stored setting, store another setting. This replaces the current setting with the new setting.
- You can also store a color balance adjustment setting in the program. See page 74, "PROGRAM."

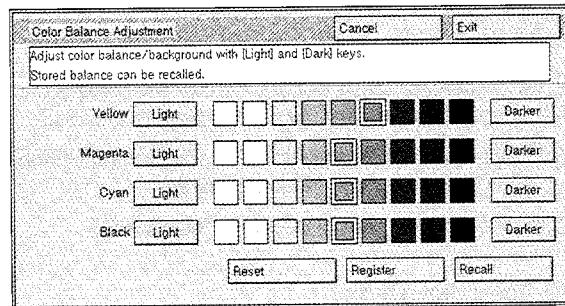
1 Touch the **[Color Balance Adj.]** key and adjust the color balance to a setting you want to store.

- See page 28, steps **1** and **2** in "Color Balance Adjustment."

2 Touch the **[Register]** key.

- The color balance setting is stored.

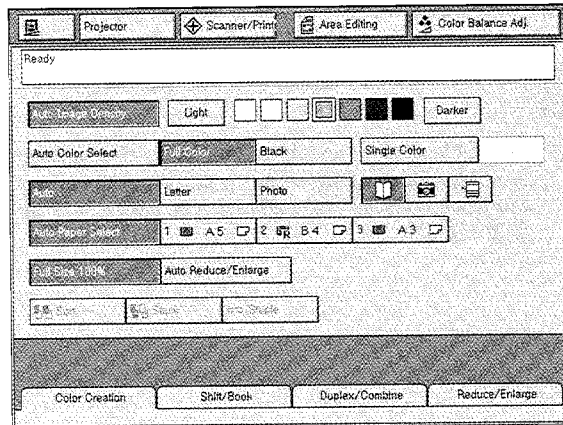
3 Touch the **[Exit]** key.



Color Balance Recall

This function can be used to recall the stored color balance setting.

1 Touch the **[Color Balance Adj.]** key.



2 Touch the **[Recall]** key.

- The stored color balance is recalled.

3 Set your original and press the **Start** key.

- If you recall a color balance when a copy run is completed, the copier is reset automatically, or you press the **Clear Modes/Stand-by** key, the color balance is cancelled.

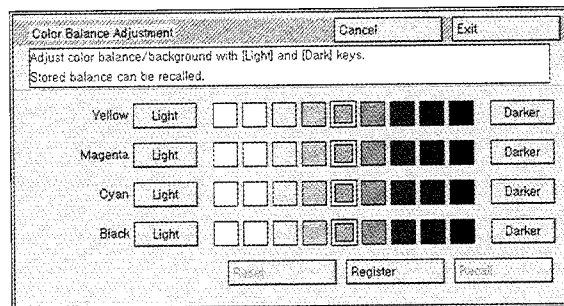


IMAGE ADJUSTMENT

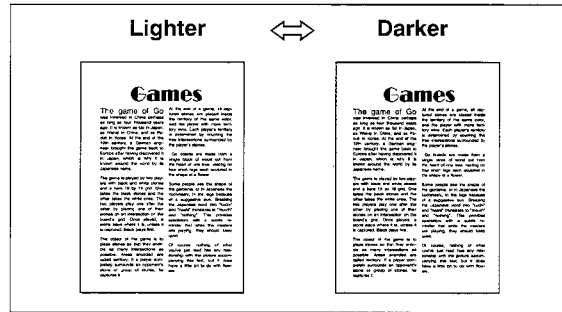
This function can be used to adjust the image quality.


- ☐ You can adjust the “Background Density Control,” “Sharp/Soft,” and “Pastel” functions separately. However, one function setting might affect other function levels depending on the adjustment level and color tone.

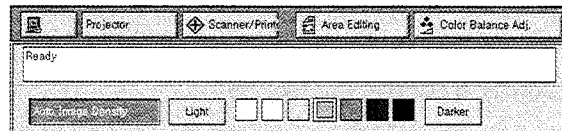
Background Density Control

Adjusts the background density of an image.

- ☐ When copying a newspaper or an original with a dark background, adjust the background density to a lighter setting.
- ☐ To darken parts marked with a highlighting pen, adjust the background density to a darker setting. However, originals written with a highlighting pen might be copied in different colors or not be copied for some colors because fluorescent colors are difficult to duplicate.
- ☐ When you set “Background Density Control” mode, “Auto Image Density” mode is cleared.
- ☐ See page 51, “Image Density Adjustment.”



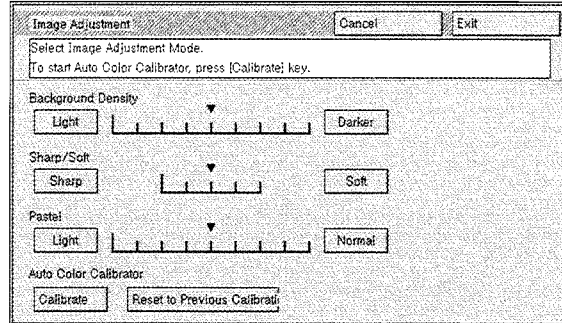
1 Touch the  key.



2 Adjust the background density using the **[Light]** and **[Dark]** keys.


3 Set your original and press the **Start** key.

- ☐ When the copier is reset automatically or you press the **Clear Modes/Stand-by** key or turn off the power, the image adjustment settings are reset to the default values.



Pastel

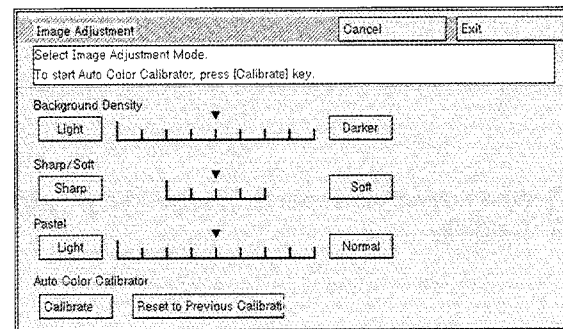
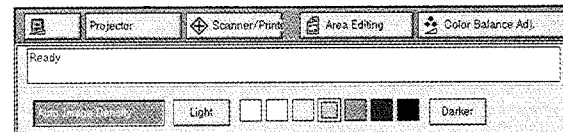
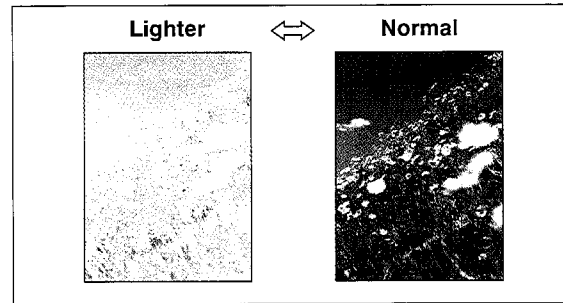
Copies an image in lighter (pastel) tones.

1 Touch the  key.

2 Adjust the color tone using the [Light] and [Normal] keys.


3 Set your original and press the **Start** key.

- When the copier is reset automatically or you press the **Clear Modes/Stand-by** key or turn off the power, the image adjustment settings are reset to the default values.



Sharp/Soft

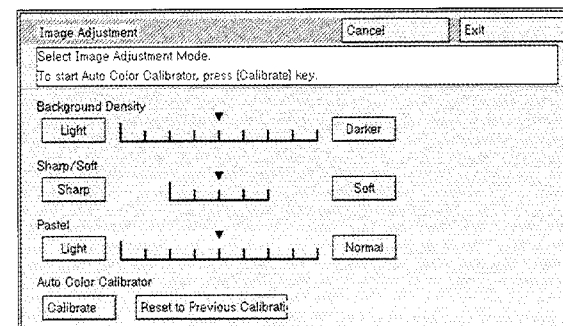
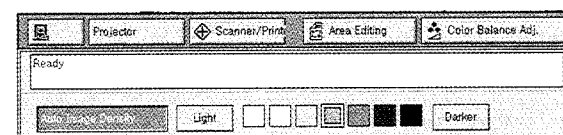
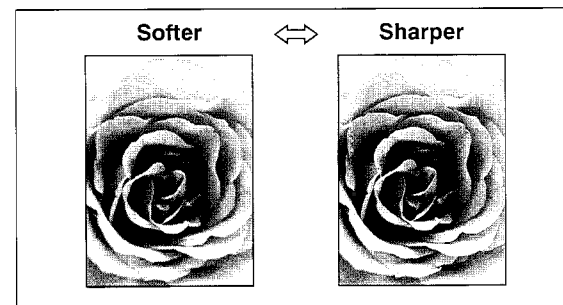
Adjusts the edges of an image.

1 Touch the  key.

2 Choose the level using the [Sharp] and [Soft] keys.

3 Set your original and press the **Start** key.

- When the copier is reset automatically or you press the **Clear Modes/Stand-by** key or turn off the power, the image adjustment settings are reset to the default values.




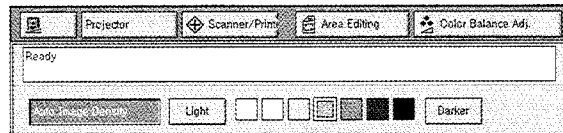
COLOR FUNCTIONS

Auto Color Calibrator

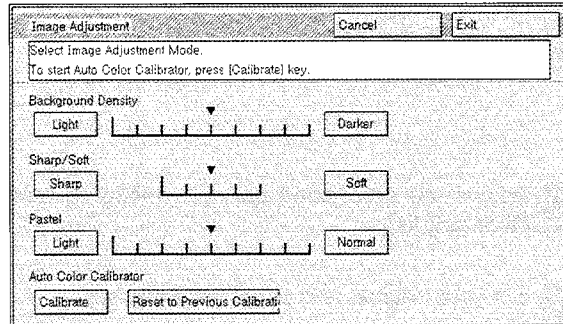
Use this function if a certain color tone is strong or the density of an image is not duplicated properly.

- The Auto color calibrator function adjusts the balance of the four basic colors (yellow, magenta, cyan, and black) so that their density can be duplicated properly.

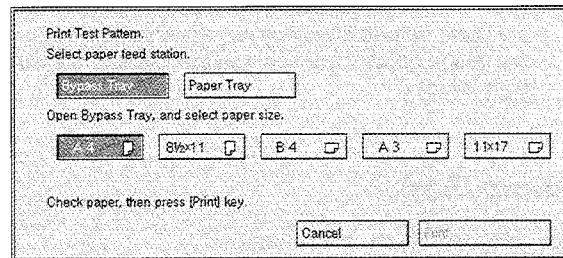
1 Touch the  key.



2 Touch the **[Calibrate]** key.








3 When using the paper tray, touch the **[Paper Tray]** key.

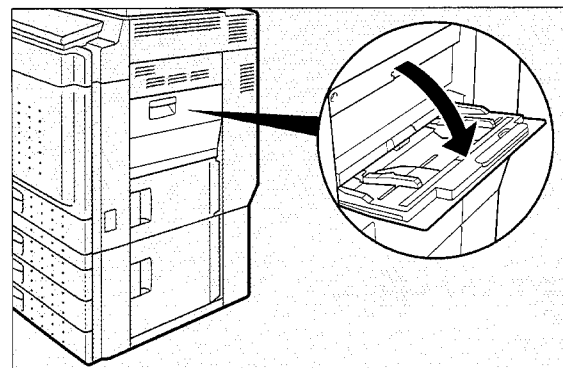


When setting paper in the bypass feed table

- 1 Touch the paper size you want to use.
- 2 Open the bypass feed table.

4 Set any of A4 , B4 , A3 , 8 1/2" x 11" , and 11" x 17"  paper and touch the **[Print]** key.

- The test pattern is output.



- When you use the bypass feed table, set the paper selected in step ①.
- You can use 64 to 105 g/m², 17.1 to 27.9 lb paper in the paper tray.
- The counter value is not increased even when the test pattern is output.

5 Set the test pattern on the exposure glass (platen glass), and press the **[Scan]** key.

- The copy image is calibrated.
- The test pattern is not read if you set it in the optional document feeder.

Important

- Set the test pattern on the exposure glass (platen glass) with two or three blank sheets of the same size overlaid on it.

6 Set your original and press the **Start** key.

Resetting the image adjustment values

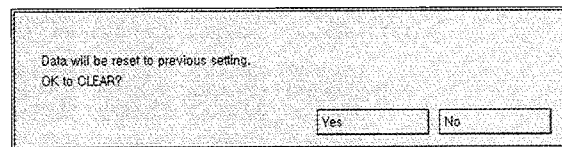
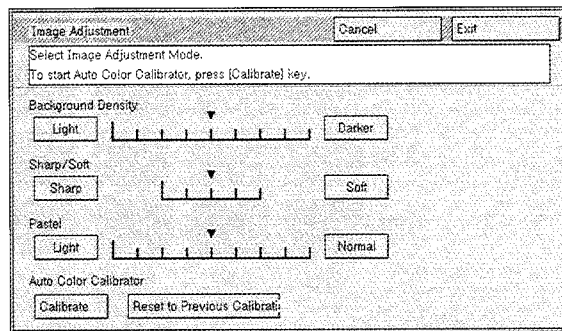
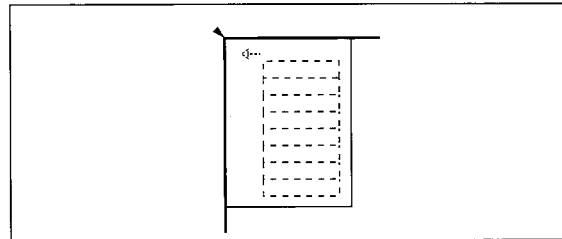
① Touch the **[Reset to Previous Calibration]** key.

- “Resetting” means to return the image adjustment values to those specified before performing Auto Color Calibration.

② Touch the **[Yes]** key.

The image adjustment values are reset to the original values.

- If you do not want to reset the image adjustment values, touch the **[No]** key.

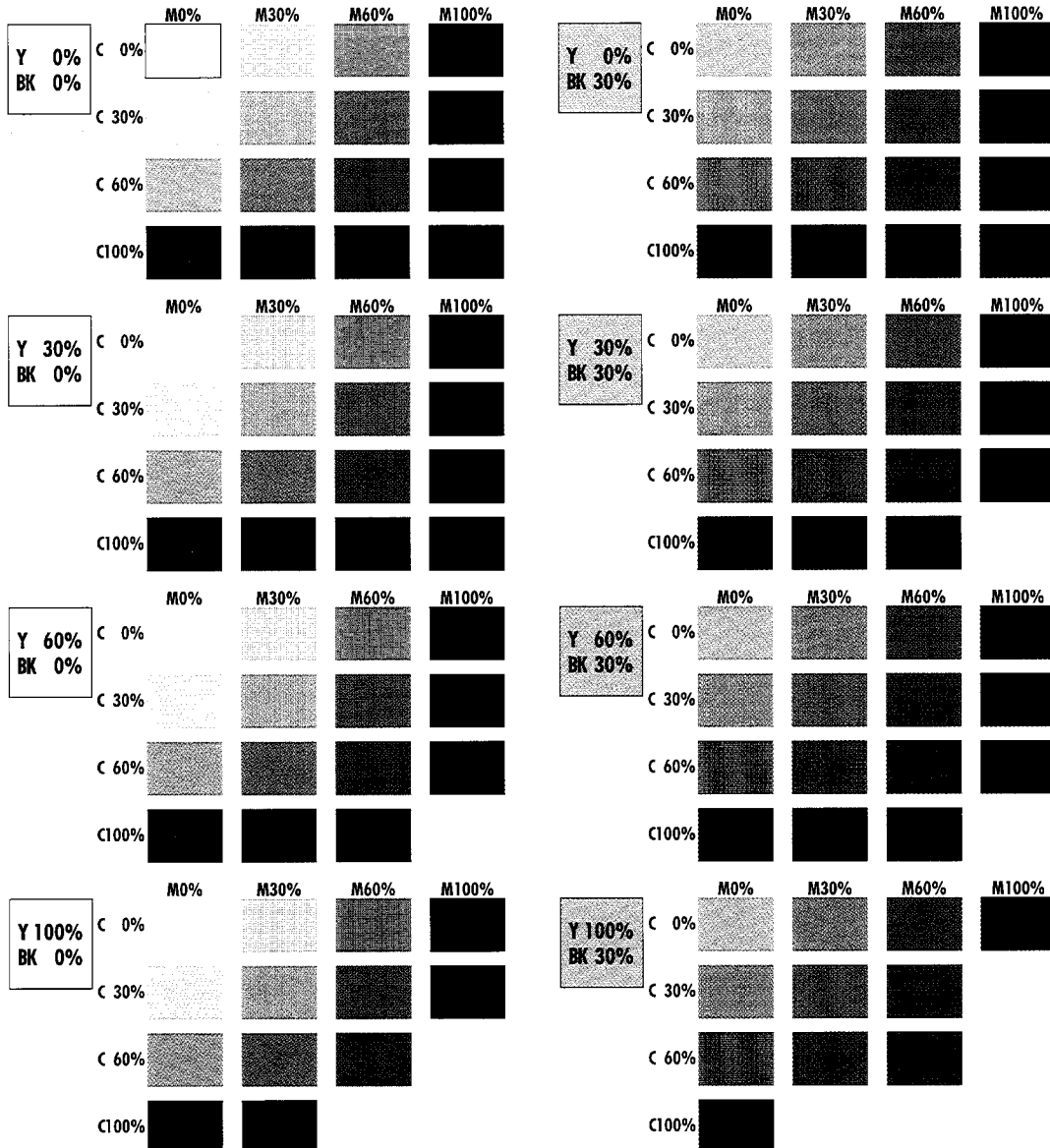


COLOR FUNCTIONS

USER COLOR CREATION

You can create only one color and store it.

- Refer to the following color samples when creating your color.
 - See page 98, "USER TOOLS, [12] Create A User Color."
- The sample colors shown below might slightly differ from colors on actual copies because the samples are expressed in the print processing mode.
- When you create a user color, adjust the amount of yellow, magenta, cyan, and black so that their total percentage will be 255 % or less.
- User colors might appear differently between the Paint Area and Single Color modes.
- When you edit an area in the Single Color mode, a user color might not appear as in editing the area in another color mode.
- You sometimes cannot specify black for the Photo mode as you want when you edit an area.



BASIC

BASIC