



Thank you for choosing Minolta.

This operator's manual explains how to operate the copier and replenish its supplies. It also gives some troubleshooting tips as well as general precautions to be observed when operating the copier.

To ensure the best performance and effective use of your copier, read this manual carefully until you familiarize yourself thoroughly with its operation and features. After you have read through the manual, keep it for ready reference.

Please use this manual as a quick and handy reference tool for immediately clarifying any questions which may arise.

Contents

Chapters 1 through 3 give the basic information for making copies.
Be sure to read these chapters before using your copier.

Using this Manual

Organization viii

Page Organization ix

Terms and Symbols for the Type of Originals and
Copy Paper x

<h2>Chapter 1 Safety Notes</h2>	1
---------------------------------	----------

1. Installing the Copier

Installation Site 2

Power Source 2

Grounding 2

Space Requirements 3

2. Precautions for Use

Operating Environment 4

Using the Copier Properly 4

Care of Copier Supplies 5

Moving 5

Chapter 2 First Things to Know about your Copier	7
---	----------

1. System Overview 8
2. Copier Parts and Accessories
 - Outside Copier 9
 - Inside Copier 10
 - Automatic Document Feeder AF-3 12
 - 10-Bin Sorter S-104 13
 - Multi Bypass Table MB-1 13
3. Control Panel Keys and Indicators
 - Control Panel 14
 - Display 16
4. Turning ON and OFF, and Resetting the Copier
 - Turning ON and OFF 19
 - When Copier is Turned ON 19
 - Auto Copy Start Function 20
 - Minimizing the Warm-up Time 21
 - Initial Mode and Panel Resetting 22
 - Auto Reset Function 23

Chapter 3 Making Copies

25

1. Copying Overview 26
2. Copying Procedure
 - Placing Originals 28
 - Checking the Copy Paper Size and Selecting the Paper Source 33
 - Zoom Ratio
 - Types of Zoom Ratios 34
 - Auto Size Mode 37
 - Zoom Ratio Table
(Original Size to Copy Paper Size) 39
 - Image Density 40
 - Book Copying 42
 - Finishing Modes
 - Finishing Modes 44
 - Selecting the Finishing Modes 45
 - Auto Dual Function 46
 - Number of Copies 47
 - Starting the Copy Cycle 48
 - Manual Bypass Copying 49

Chapter 4 Auxiliary Functions	51
--------------------------------------	-----------

1. Checking the Total Number of Copies Mode
52
2. Auxiliary Toner Replenishing Mode
(Increasing the Image Density) 54
3. Drum Dehumidify Function 55
4. User's Choice 56

Chapter 5 When an Indicator Lights Up	67
(Replenishing Supplies, Clearing Misfeeds, and Correcting a Closure Failure)	

1. Quick Reference for Indicator Lights 68
 2. Detailed Instructions for Indicator Lights
 - Add Toner Indicator 70
 - Add Paper Indicator 72
 - I.U. Service Life Indicator 76
 - Closure Failure Indicator 85
 - Misfeed Indicator
 - Misfeed Indicator and Monitor Display 86
 - Misfeed Clearing Procedures
 - : Copier EP1050 87
 - : Automatic Document Feeder AF-3 90
 - : Sorter S-104 92
- Call-Tech.-Rep. Indicator 93

Chapter 6 Troubleshooting	95
----------------------------------	-----------

1. When this Type of Copy is Produced
 - The Image is too light 96
 - The Image is too dark 96
 - The Copy is blurry 96
 - The Copy has lines 98
 - The Copy has dark specks or spots 98
 - The Edge of the Copy is dirty 98
 - The Image on the Copy is not aligned properly 98
2. The Copier is not functioning as designed
 - None of the Control Panel Indicators light up 100
 - Pressing the Start Key does not start the copy cycle 100
 - The Copier is not activated when the Power Switch is turned ON 102

Chapter 7 Specifications	103
---------------------------------	------------

1. Copier EP1050 104
2. Automatic Document Feeder AF-3 106
3. 10 Bin Sorter S-104 107
4. Multi Bypass Table MB-1 108

Chapter 8	Miscellaneous	109
------------------	----------------------	------------

1. Care of the Copier
 - Daily Checks 110
 - Cleaning 112
2. Description of Copy Paper
 - Size 116
3. Zoom Ratio Table
(Original Size to Copy Paper Size) 117
4. Index 118

Chapter 1

Safety Notes

Chapter 2First Things to
Know about
your Copier**Chapter 3**

Making Copies

Chapter 4

Special Functions

Chapter 5When an Indicator
Lights Up**Chapter 6**

Troubleshooting

Chapter 7

Specifications

Chapter 8

Miscellaneous

Using This Manual

Organization

Chapters 1 through 3 give the basic information for making copies. Be sure to read these Chapters before using your copier.

Chapter 1 Safety Notes

About the operating environment, conditions and precautions for use.

Chapter 2 First Things to Know About your Copier

A brief description of the system and preliminary information about the different parts of the system.

Chapter 3 Making Copies

About how to make copies.

"COPYING OVERVIEW" on p. 26

These pages offer quick, at-a-glance instructions for making copies.

Each step is keyed to a page number with more detailed information.

Chapter 4 Auxiliary Functions

About the auxiliary functions that can be used for specific purposes.

Chapter 5 When an Indicator Lights Up

About the various warning indications given on the control panel and steps to correct these conditions.

Chapter 6 Troubleshooting

Instructions on how to troubleshoot copier malfunctions.

Chapter 7 Specifications

Complete specifications of the copier system and options.

Chapter 8 Miscellaneous

About care for the copier and the various possible combinations of functions.

Page Organization

Each page of this manual is basically organized as follows.

Index: To locate your Chapter quickly.

Section title

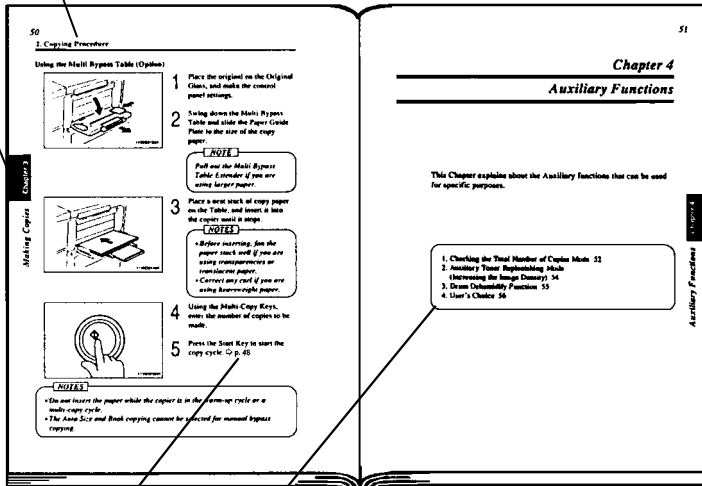


Table of contents of the Chapter:
To quickly locate your page in the chapter.

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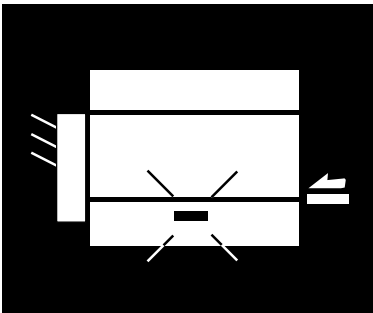
➔ p. XX (Cross-reference):

Shows the page to refer to for more detailed information.

Control Panel Indicators

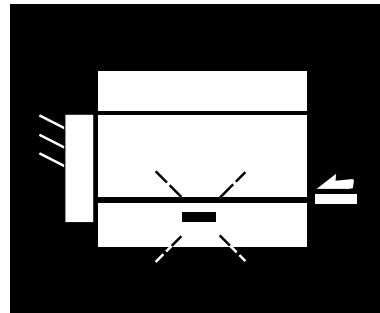
A steady light and blinking light Indicator on the control panel are indicated as follows.

Steady Light



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Blinking Light



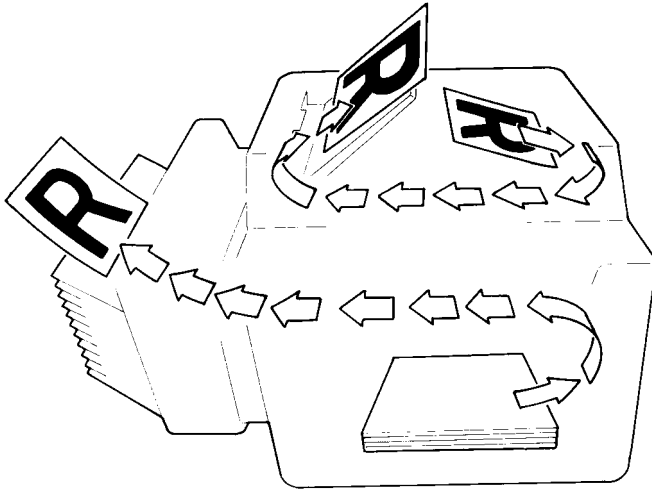
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Terms and Symbols for the Type of Originals and Copy Paper

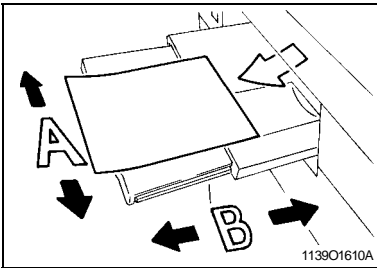
A few special terms and symbols are used in this manual to designate types of originals and copy paper. These two pages explain about these terms and symbols.

Feeding Direction (Copy Paper Path)

In this copier system, copy paper is taken up from the right-hand side of the copier and fed through the copier toward the left-hand side, out face up onto the Exit Tray. In the figure below, the direction in which the copy paper is fed, as indicated by the arrow, is called the "feeding direction."



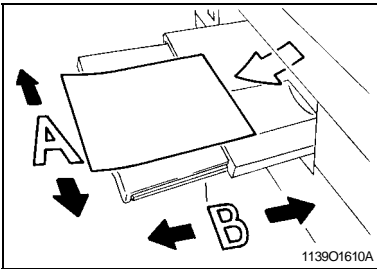
"Width" and "Length"





When we talk about the size of the original or copy, we call side A "width" and side B "length."

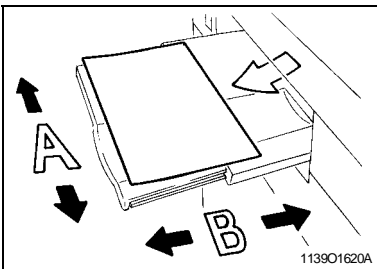
A: Width
B: Length


Terms and Symbols Used




<Lengthwise  >

When the original or copy has a "length" longer than its "width," we call it "lengthwise" and use symbol "L" or ".



<Crosswise  >

When the original or copy has a "length" shorter than its "width," we call it "crosswise" and use symbol "C" or ".

Chapter 1

Safety Notes

This Chapter explains about the operating environment, conditions, and precautions for use.

1. Installing the Copier
 - Installation Site 2
 - Power Source 2
 - Grounding 2
 - Space Requirements 3
2. Precautions for Use
 - Operating Environment 4
 - Using the Copier Properly 4
 - Care of Copier Supplies 5
 - Moving 5

1. Installing the Copier

Installation Site

To ensure utmost safety and prevent possible malfunctions of the copier, install it in a location which meets the following requirements.

- u A place away from a curtain or the like that may catch fire and burn easily.
- u An area where there is no possibility of being splashed with water or other types of liquid.
- u An area free from direct sunlight.
- u A place out of the direct air stream of an air conditioner, heater, or ventilator.
- u A well-ventilated place.
- u A dry place.
- u A dust-free location.
- u An area not subject to undue vibration.
- u A stable and level location.

Power Source

The power source voltage requirements are as follows.

- u Use a power source with little voltage fluctuation.

Voltage Fluctuation	:	Within $\pm 10\%$
Frequency Fluctuation	:	50 Hz Within $\pm 2.5\%$
	:	60 Hz Within $\pm 3\%$

- u If any other electrical equipment is sourced from the same power outlet, make sure that the capacity of the outlet is not exceeded.
- u The outlet should be located near the copier and easily accessible.
- u Never connect by means of a multiple socket any other appliances or machines to the outlet being used for the copier.
- u If an extension cord is needed, use one with a capacity more than the power consumption of the copier.
- u Make sure that no unusual, excessive force is being applied to the power cord or extension cord.

Grounding

To prevent receiving electrical shocks in the case of electrical leakage, always ground the copier.

Connect the grounding wire to:

- u The ground terminal of the outlet.
- u A grounding contact which complies with the local electrical standards.

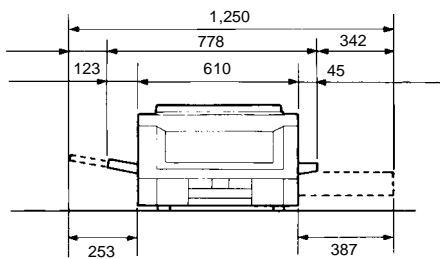
NOTE: Never connect the grounding wire to a gas pipe, a grounding wire for a telephone or a water pipe.

Space Requirements

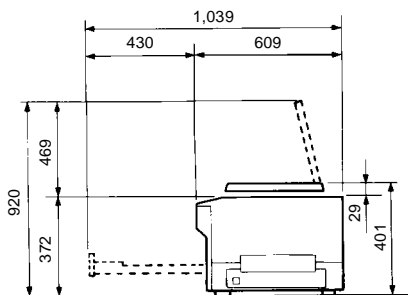
To ensure easy copier operation, supply replacement and service maintenance, adhere to the recommended space requirements detailed below.

NOTE: Be sure to allow a clearance of 6 in. or more at the back of the copier as there is a ventilation duct.

• EP1050

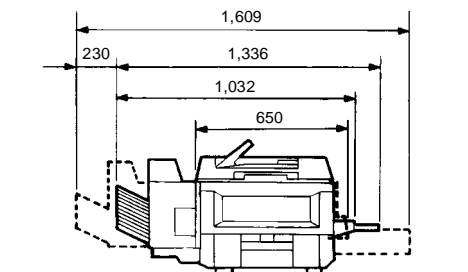


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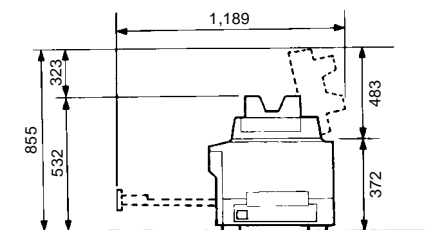


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• EP1050 + OPTION



1142O008AA



1142O009AA

Scale: mm

2. Precautions for Use

Operating Environment

The operating environmental requirements of the copier are as follows.

Temperature	: 10°C to 30°C (50°F to 86°F) with a fluctuation of 10°C (50°F) per hour
Humidity	: 15% to 85% with a fluctuation of 20% per hour

Using the Copier Properly

To ensure the optimum performance of the copier, follow the precautions listed below.

- u NEVER place a heavy object on the copier or subject the copier to shocks.
- u NEVER open any Doors, or turn OFF the copier while the copier is making copies.
- u NEVER bring any magnetized object or use flammable sprays near the copier.
- u NEVER place a vase or vessel containing water on the copier.
- u NEVER drop paper clips, staples, or other small pieces of metal into the copier.
- u NEVER attempt to remove any Cover that is secured.
- u ALWAYS insert the Power Plug all the way into the outlet.
- u ALWAYS make sure that the outlet is visible, clear of the copier or copier cabinet.
- u ALWAYS ensure that the copier does not ride on the power cord or communications cable of other electrical equipment, and it does not get such a cord or cable wedged into its own mechanism.
- u NEVER leave damage or cracks evident on the copier power cord unattended.
If you find any of these conditions, immediately shut down the copier, unplug the power cord, and call your Technical Representative for appropriate action.
- u ALWAYS provide good ventilation when making a large number of continuous copies.
- u NEVER keep the copier running when it becomes inordinately hot or produces abnormal noise. If that happens, immediately turn OFF the copier, unplug it, and then call your Technical Representative.

NOTE

= Locate the Copier in a Well Ventilated Room =
A negligible amount of ozone is generated during normal operation of this copier. An unpleasant odor may, however, be created in poorly ventilated rooms during extensive copier operations. For a comfortable, healthy, and safe operating environment, it is recommended that the room be well ventilated.

REMARQUE

*= Placer le copieur dans une pièce largement ventilée =
Une quantité d'ozone négligable est dégagée pendant le fonctionnement du copieur quand celui-ci est utilisé normalement. Cependant, une odeur désagréable peut être ressentie dans les pièces dont l'aération est insuffisante et lorsque une utilisation prolongée du copieur est effectuée. Pour avoir la certitude de travailler dans un environnement réunissant des conditions de confort, santé et de sécurité, il est préférable de bien aérer la pièce ou se trouver le copieur.*

Care of Copier Supplies

Use the following precautions when handling the copier supplies (toner, paper, etc.).

- u Store the paper, toner, and other supplies in a place free from direct sunlight and away from any heating apparatus. Keep them in a dry, clean environment.
- u Store paper, which has been removed from its wrapper but not loaded into the Drawer, in a sealed plastic bag in a cool, dark place.
- u Use the correct toner for the exclusive use by the EP1050 copier. The applicable copier model name is indicated on the Toner Bottle.
- u Keep supplies out of the reach of children.
- u If your hands become soiled with toner, wash them with soap and water immediately.

Moving

If you need to transport the copier over a long distance, consult your Technical Representative.



Chapter 2

First Things to Know about your Copier

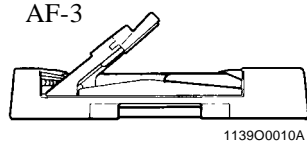
This Chapter gives you a brief description of the system and preliminary information about the different parts of the system.

1. System Overview 8
2. Copier Parts and Accessories
 - Outside Copier 9
 - Inside Copier 10
 - Automatic Document Feeder AF-3 12
 - 10-Bin Sorter S-104 13
 - Multi Bypass Table MB-1 13
3. Control Panel Keys and Indicators
 - Control Panel 14
 - Display 16
4. Turning ON and OFF, and Resetting the Copier
 - Turning ON and OFF 19
 - When Copier is Turned ON 19
 - Auto Copy Start Function 20
 - Minimizing the Warm-up Time 21
 - Initial Mode and Panel Resetting 22
 - Auto Reset Function 23

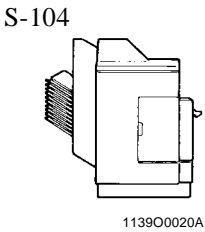
1. System Overview

The EP1050 system can be configured with the following components.

- ◆ Automatic Document Feeder AF-3 <Option>
Permits automatic feeding of multiple originals. ⇨ p. 30.



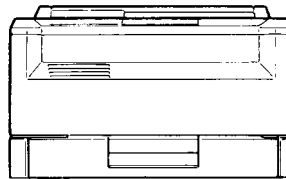
- ◆ 10-Bin Sorter S-104 <Option>
Permits sorting or grouping copies into up to 10 copy sets or stacks. ⇨ p. 44



- ◆ Multi Bypass Table MB-1 <Option>
Holds up to 50 sheets of standard paper which is not loaded in any of the Drawers, allowing to make copies on them. ⇨ p. 49



EP1050

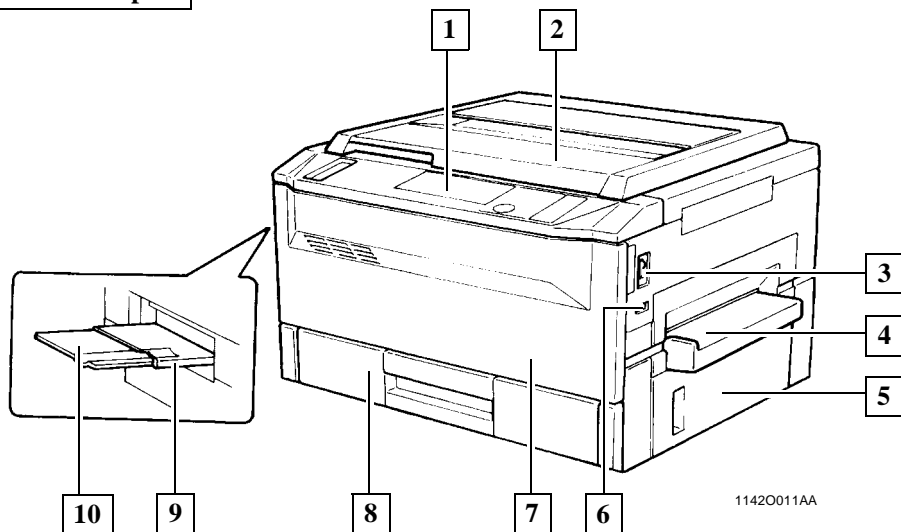


◆ EP1050

The Paper Drawer can hold up to 250 sheets of copy paper (80 g/m²). The Manual Bypass Table allows you to make a copy on paper which is not loaded in the Drawer and which is fed into the copier manually via this Table.

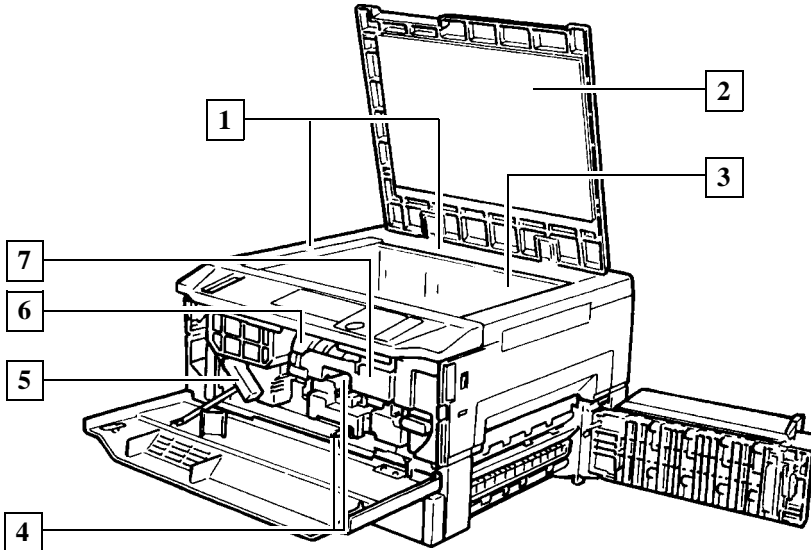
2. Copier Parts and Accessories

Outside Copier



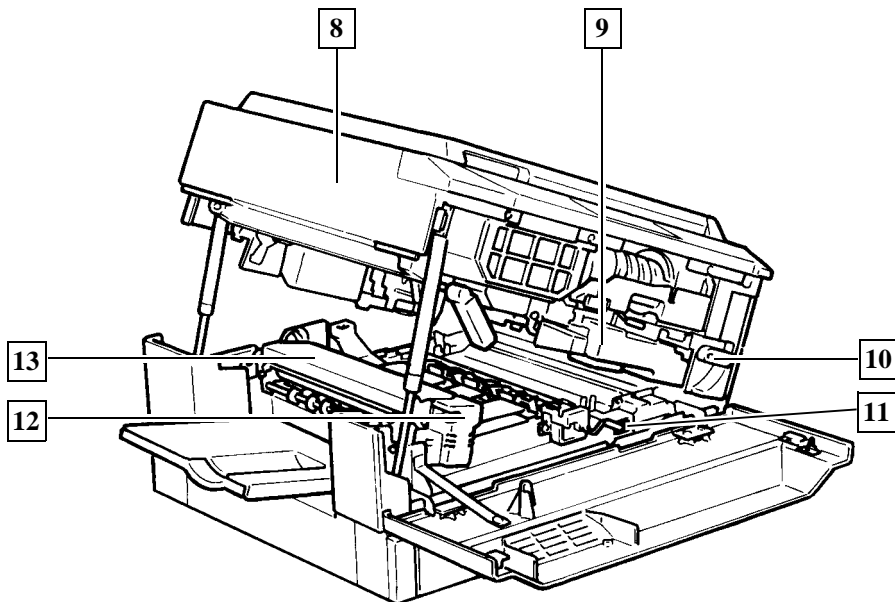
- 1 Control Panel** : Use to start a copy cycle or to make copying-job settings. ↪ p. 14
- 2 Original Cover** : Holds the original placed on the Original Glass in position. To place an original, raise the Cover and place it in position on the Original Glass. ↪ p. 28
- 3 Power Switch** : Use to turn the copier ON and OFF. ↪ p. 19
- 4 Manual Bypass Table** : Use for manual feeding of paper into the copier. ↪ p. 49
- 5 Right Door** : Open to clear a paper misfeed. ↪ p. 88
- 6 Total Counter** : Shows the total number of copies made so far.
- 7 Front Door** : Open to:
- Replace the Toner Bottle.
 - Clear a paper misfeed.
 - Clean the Corona Units.
- Closing the Front Door after a misfeed has been cleared will turn the Misfeed Indicator on the control panel OFF. ↪ pp. 87, 114
- 8 Paper Drawer** : Holds up to 250 sheets of paper. The Edge Guide and Trailing Edge Stop are movable, allowing you to load paper of different sizes. ↪ p. 72
- 9 Exit Tray** : Holds copies fed out of the copier.
- 10 Copy Tray Extender** : Slide this Extender out when making copies on large-size paper.

Inside Copier



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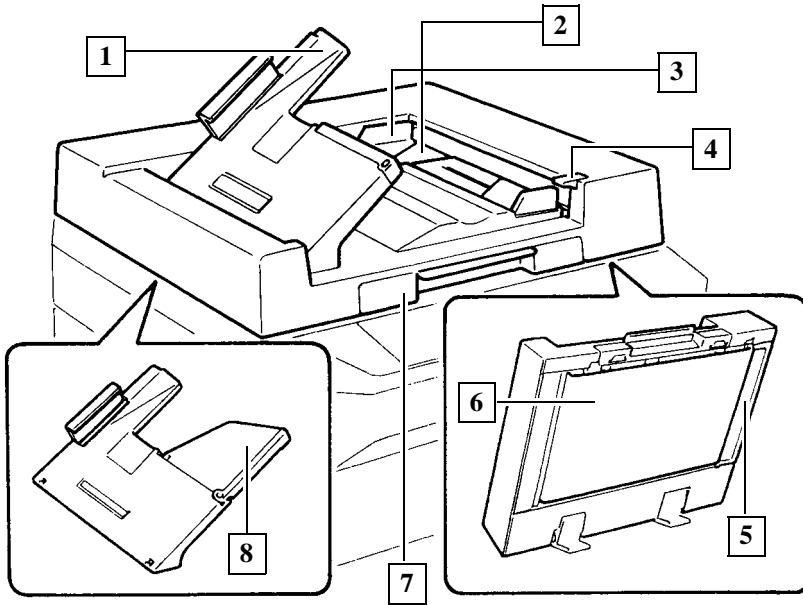
- 1 Original Width/Length Scale** : Place the original along these Scales for correct positioning. ⇨ p. 28
- 2 Original Pad** : Holds the original in position on the Original Glass.
- 3 Original Glass** : Place the original face down on this Glass. ⇨ p. 28
- 4 Corona Unit Cleaning Lever (Upper/Lower)** : Operate the Lever to clean the corresponding Corona Unit if unwanted lines are produced on the copy. ⇨ p. 114
- 5 Lock Release Lever** : Turn counterclockwise to swing up the Upper Half of the copier to clear a paper misfeed. ⇨ p. 87
- 6 Toner Bottle** : Contains toner. Replace it with a new one when the Add Toner Indicator lights up. ⇨ p. 87
- 7 Toner Bottle Holder** : Swing open to replace the Toner Bottle. ⇨ p. 70



11420013AA

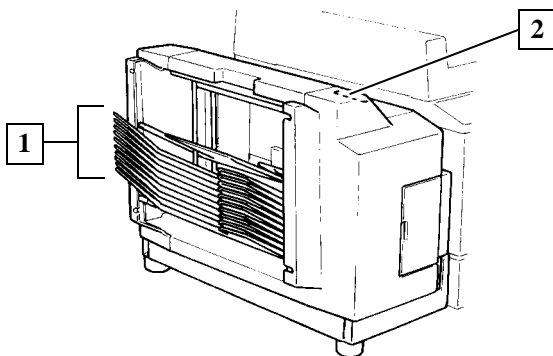
- | | | |
|-----------|--|---|
| 8 | Upper Half of Copier | : The copier main body can be divided into two parts, the upper and lower. The Upper Half can be swung upward. ⇨ pp. 78, 88 |
| 9 | Imaging Unit | : Converts the original image to the copy image. |
| 10 | Imaging Unit Lock Release Lever | : Operate when replacing the Imaging Unit (For Technical Representative only). |
| 11 | Dehumidifier Switch | : Turn ON to prevent condensation from forming on the PC Drum when power is turned OFF. |
| 12 | Fusing Unit Lock Release Lever | : Hold onto this Lever when lifting the Upper Half of the Fusing Unit. ⇨ p. 88 |
| 13 | Fusing Unit | : Fuses the toner image onto the paper. |

Automatic Document Feeder AF-3



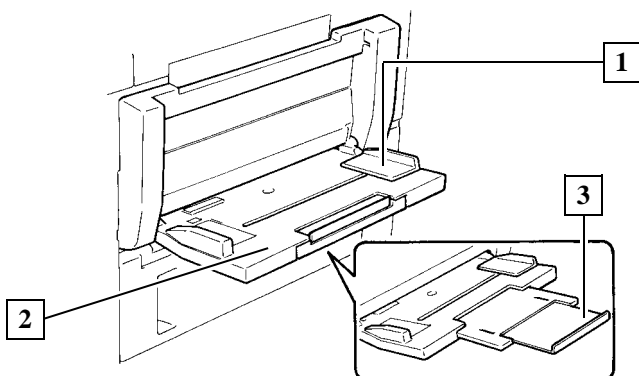
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- | | | |
|---|---------------------------------------|--|
| 1 | Document Exit Tray | : Receives originals that are automatically ejected from AF-3. |
| 2 | Document Feed Tray | : Load the originals face up on this tray. ⇨ p. 31 |
| 3 | Document Guide Plates | : Slide the plates as necessary to the size of the originals. ⇨ p. 31 |
| 4 | Document Release Lever | : Press to clear an original misfeed. Holding down the lever, pull out the original. ⇨ p. 90 |
| 5 | Document Feed Unit Guide Plate | : Open to clear an original misfeed. ⇨ p. 90 |
| 6 | Document Transport Belt | : Moves the original from the Document Feed Tray to the Exit Tray. ⇨ p. 115 |
| 7 | Lock Release Lever | : Press upward to raise the AF-3. |
| 8 | Document Exit Tray Extender | : Pull out to make copies on larger paper. ⇨ p. 31 |

10-Bin Sorter S-104

11420014AA

- 1 Sorter Bins** : Hold sorted copies. The Top Bin is capable of holding up to 50 copies and each of the 2nd to 10th Bins up to 25 copies, a total of 275 copies.
 ⇨ p. 44
- 2 Lock Release Lever** : Press to unlock the Sorter. ⇨ p. 92

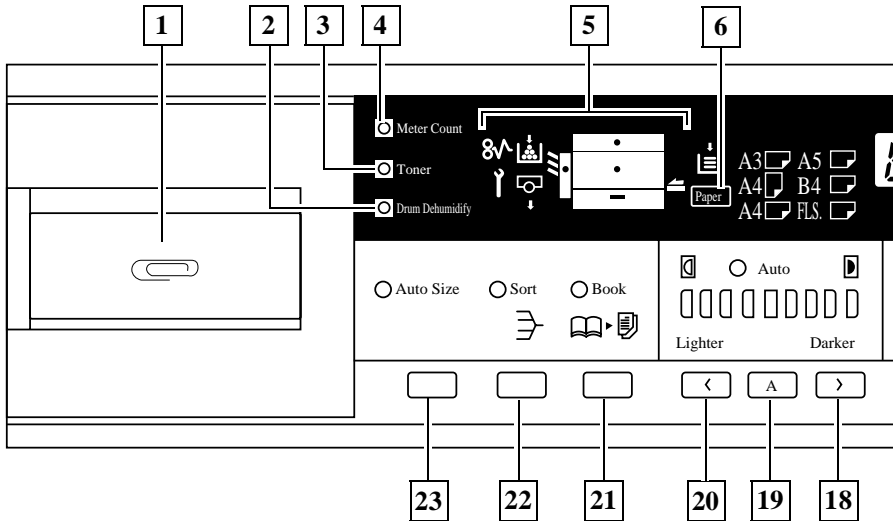
Multi Bypass Table MB-1

113901090A

- 1 Paper Guide Plate** : Slide as necessary to the size of the copy paper.
 ⇨ p. 50
- 2 Multi Bypass Table** : Load your paper on this Table. It allows you to make copies continuously on paper fed from this Table. ⇨ p. 50
- 3 Multi Bypass Table Extender** : Slide this Extender out to use large-size copy paper.
 ⇨ p. 50

3. Control Panel Keys and Indicators

Control Panel



1 Clip Tray:

Use this tray to put the paper clips used with the documents.

2 Drum Dehumidify Key:

Press to remove condensation formed on the surface of the PC Drum. ↪ p. 55

3 Auxiliary Toner Replenishing Key:

Press when the image on the copy becomes too light. ↪ p. 54

4 Meter Count Key:

Press to check for the current counts of four electronic counters of the copier.
↪ p. 52

5 Display:

See the other pages in this manual. ↪ p. 16

6 Paper Select Key:

Press to select the paper source, Drawer or Multi Bypass Table (option), when the Multi Bypass Table is mounted to the copier. ↪ p. 33

7 Zoom Down Key:

Press as necessary to make the zoom smaller in 1% increments. ↪ p. 36

8 Zoom Up Key:

Press as necessary to make the zoom larger in 1% increments. ↪ p. 36

9 Multi-Copy Keys:

Use to enter the number of copies to be made and other numeric data. ↪ p. 47

10 Energy Saver Key:

Press to set the copier into the Energy Saver Mode. ↪ p. 21

11 Panel Reset Key:

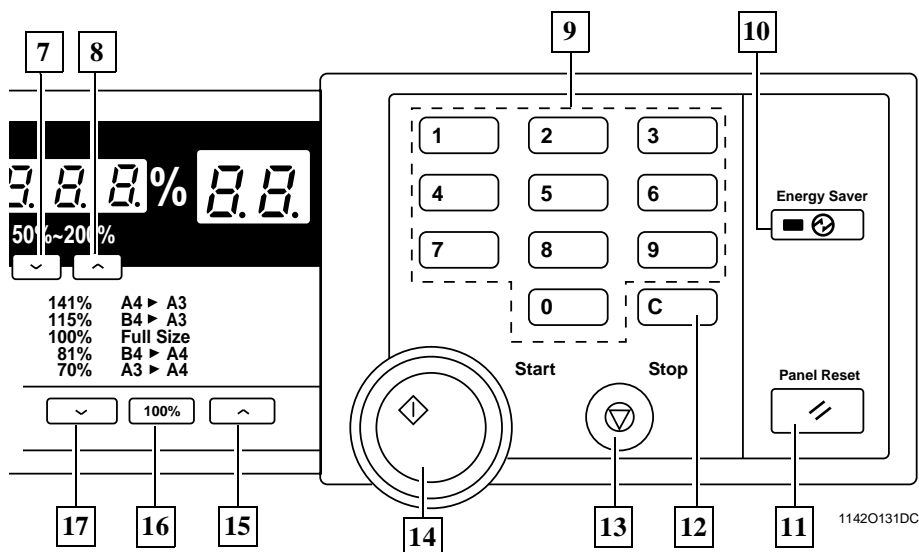
Press to set the copier into the initial mode, clearing all settings made previously on the control panel. ↪ p. 23

Holding down the Key for 3 seconds will initiate the User's Choice. ↪ p. 64

12 Clear Key:

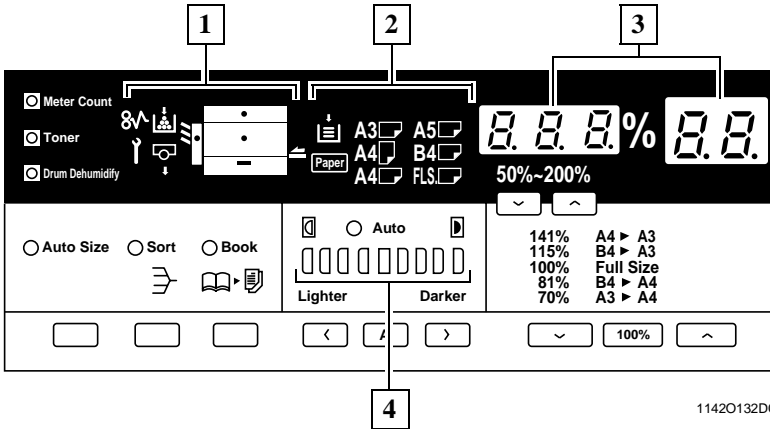
Press to clear the number of copies, zoom and other settings. ↪ p. 47

3. Control Panel Keys and Indicators



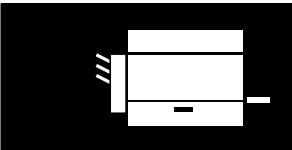
- 13 Stop Key:**
Press to stop a multi-copy cycle. ⇨ p. 48
- 14 Start Key:**
Press to start a copy cycle. ⇨ p. 48
It also tells the status of the copier as follows:
Green Light: The copier is ready to make copies.
Orange Light: The copier is making copies or warming up, or the Add Paper, Misfeed, or Call-Tech.-Rep. Indicator is lit.
- 15 Enlargement Key:**
Press to select a desired fixed enlargement ratio. ⇨ p. 35
- 16 Full Size Key:**
Press to select full size (100%). ⇨ p. 35
- 17 Reduction Key:**
Press to select a desired fixed reduction ratio. ⇨ p. 35
- 18 Exposure Control Key (⊙, Darker):**
Press as necessary to make the exposure level higher in the Manual Exposure Mode.
⇨ p. 41
- 19 Auto Exposure Mode Key:**
Press to select either the Auto or Manual Exposure Mode. ⇨ p. 41
- 20 Exposure Control Key (⊙, Lighter):**
Press as necessary to make the exposure level lower in the Manual Exposure Mode.
⇨ p. 41
- 21 Book Key:**
Press as necessary to select the Book Copying Mode. ⇨ p. 42
- 22 Finishing Mode Select Key:**
Press as necessary to select the Sort or Non-Sort Mode. ⇨ p. 45
- 23 Auto Size Mode Key:**
Press as necessary to select the Auto Size Mode. ⇨ p. 37

Display



1 Monitor Display

- Paper Source Indicator

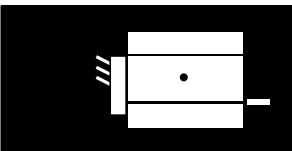


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Shows the paper source which is currently selected for use. ⇨ p. 33

Example: Shows that the Drawer is currently selected for use.

- Closure Failure Indicator

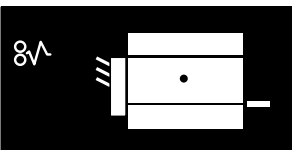


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The location of a Door left open is also indicated by a round marker. ⇨ p. 85

Example: Indicates that the Front Door or Right Door is left open.

- Misfeed Indicator



1142O019AA

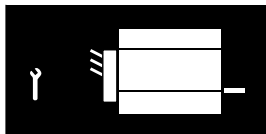
Indicates that a paper misfeed has occurred.

The location of the misfeed is also indicated by a round marker. ⇨ p. 86

Example: Shows that a misfeed has occurred inside the copier.

3. Control Panel Keys and Indicators

- Call-Tech.-Rep. Indicator

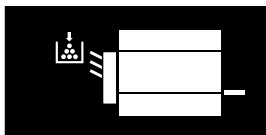


1142O020AA

Indicates that the copier has developed a malfunction.

When a malfunction occurs, the corresponding malfunction code is shown across the Zoom Ratio Indicator and Multi-Copy Display. ⇨ p. 93

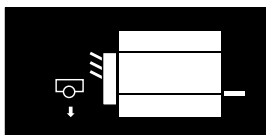
- Add Toner Indicator



1142O021AA

Indicates that the Toner Bottle is running out of toner. Replace the Toner Bottle as soon as possible. ⇨ p. 70

- I.U. Service Life Indicator

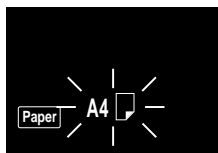


1142O022AA

It is now time to replace the Imaging Unit. Replace the Imaging Unit by following the steps given in "I.U. Service Life Indicator." ⇨ p. 76

2 Paper Information Display

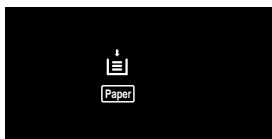
- Paper Size Indicators



1142O143DA

Show the size of paper currently loaded in the Drawer. ⇨ p. 33

- Add Paper Indicator

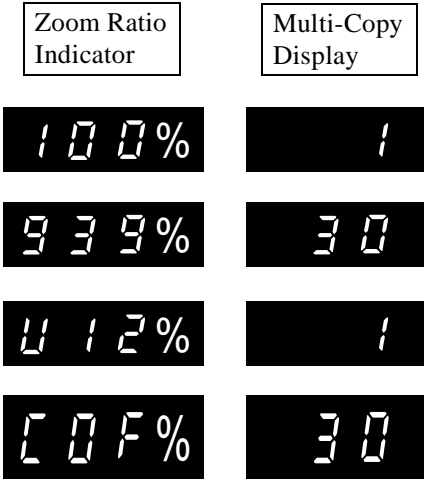


1142O170CA

Lights up when the currently selected Drawer has run out of paper. Add paper as necessary. ⇨ p. 72

3. Control Panel Keys and Indicators

3 Zoom Ratio Indicator / Multi-Copy Display : Each shows the following data.

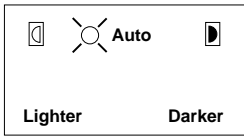


11420025AA

- Example
Zoom ratio: 100%
No. of copies: 1
- Count of the Total Counter
Example: 93,930 (copies)
- User's Choice code and setting value
Example: Choice code: 12, Setting: 1
- Malfunction code
Example: Malfunction code C0F30

4 Exposure Information Display

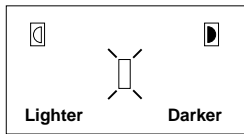
- Auto Exposure Indicator



11420167CA

Indicates that the copier is now in the Auto Exposure Mode. ⇨ p. 40

- Exposure Level Indicator





11420168CA

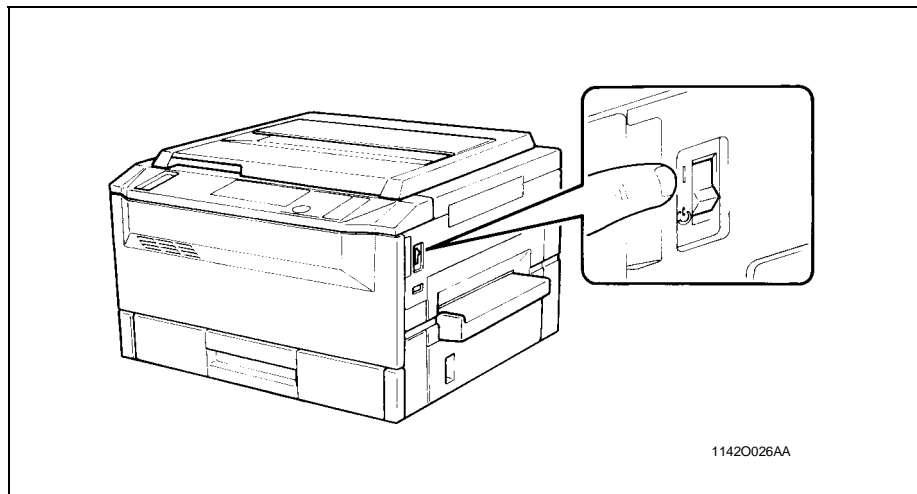
Shows the exposure setting level in the Manual Exposure Mode. ⇨ p. 40
The center LED is normally lit.

4. Turning ON and OFF, and Resetting the Copier

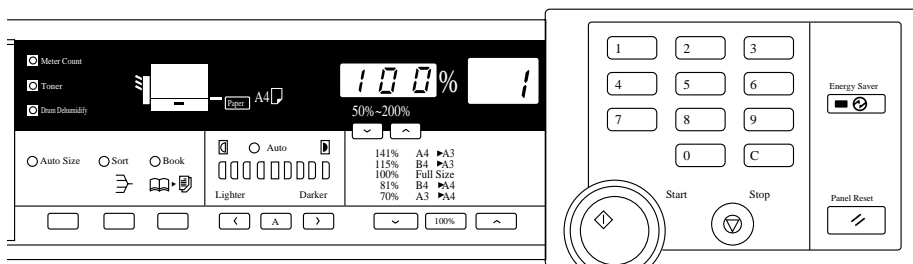
Turning ON and OFF

Turning Copier ON Press the Power Switch to the "  " position.


Turning Copier OFF Press the Power Switch to the "  " position.

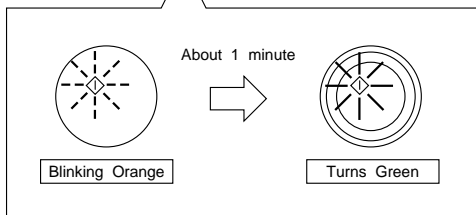


When Copier is Turned ON



- The Start Key blinks orange, indicating that the copier is now warming up.
- In about 1 minute, the Start Key turns green. Now the copier is ready to make copies.

* We call the settings established on the control panel at this time the "initial settings."  p. 22

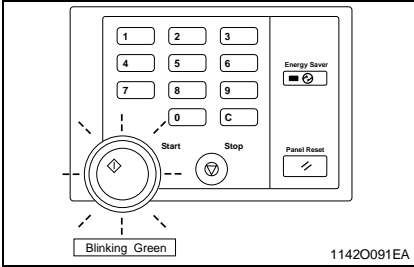


4. Turning ON and OFF, and Resetting the Copier

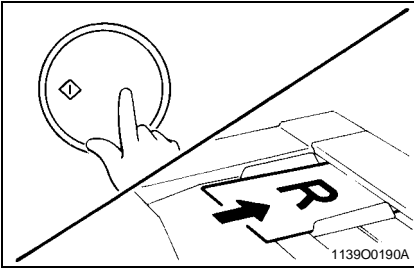
Auto Copy Start Function (Only when Automatic Document Feeder AF-3 is used)

The Auto Copy Start Function allows a copy process to be started as soon as the copier completes warming up.

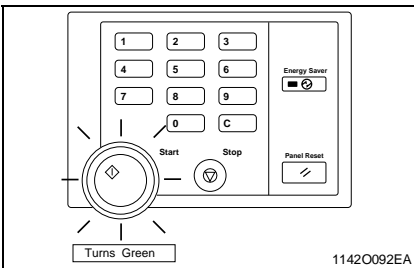
Using the Function



- 1 When you load the originals onto the AF-3 while the copier is warming up, the Start Key turns to green and blinks.



- 2 When the Start Key is then pressed, the Start Key turns to blinking orange and the AF-3 starts feeding the first original onto the Original Glass.



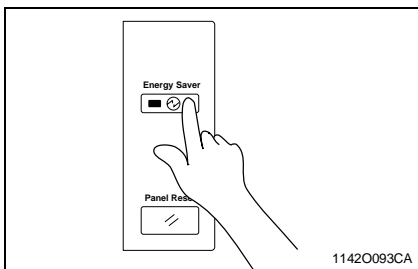
As soon as the copier completes warming up, the Start Key turns green and the copy cycle is started.

4. Turning ON and OFF, and Resetting the Copier

Minimizing the Warm-up Time

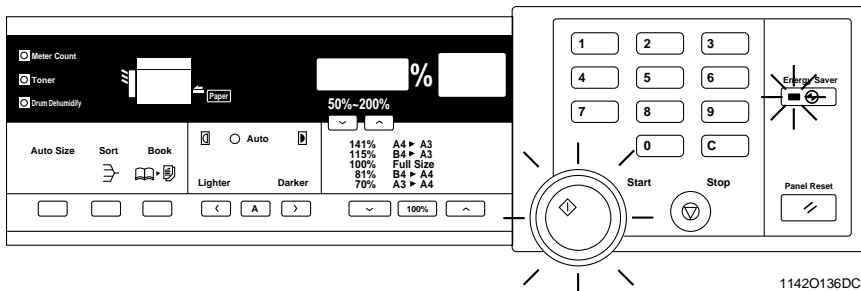
If the copier is shut down when it is not in use, it takes the copier a max. of 1 minute to complete the warm-up cycle. Instead of turning the copier OFF, it's a good idea to use the Energy Saver Mode. The Mode will minimize the time it takes the copier to complete the warm-up cycle to about 30 seconds.

Entering the Energy Saver Mode

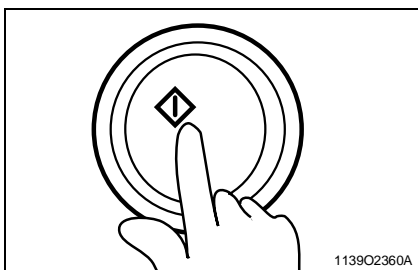


- To set the copier into the Energy Saver Mode, press the Energy Saver Key on the control panel.

◆ Then, all control panel Indicators go out, except that the Start Key and the Energy Saver Key which remain lit green.



Leaving the Energy Saver Mode



- To allow the copier to leave the Energy Saver Mode, press any Key on the control panel, for instance, the Start Key.
- ◆ This cancels the Energy Saver Mode, and the copier will be ready to make copies in about 30 seconds.

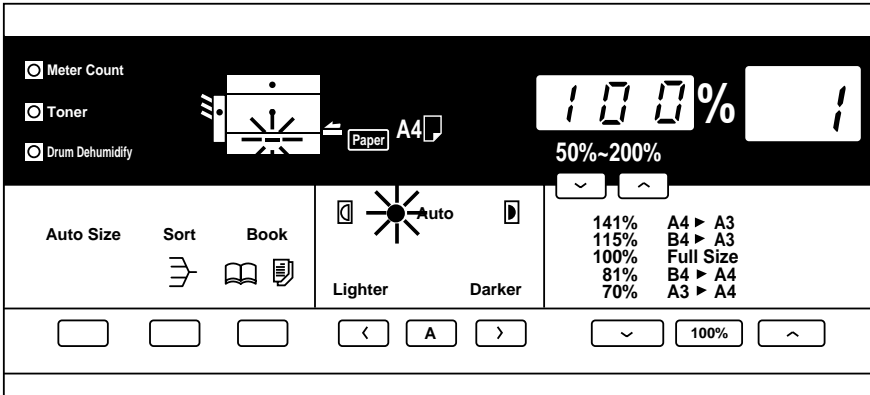
4. Turning ON and OFF, and Resetting the Copier

Initial Mode and Panel Resetting

Initial Mode

When the Power Switch is turned ON, the initial settings are indicated on the control panel.

* The initial settings serve as the reference for all control panel settings to be later made.



11420137DC

- No. of copies to be made: 1
- Zoom ratio: Full size (100%)
- Auto Exposure Mode
- Non-Sort Mode

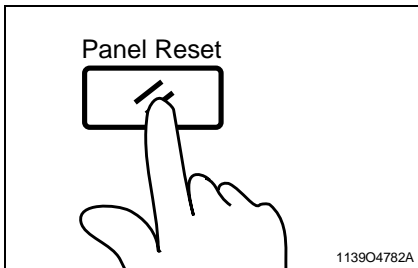
Useful Tip

The initial settings can be changed by User's Choice. For details, see "USER'S CHOICE," ⇨ p. 56

4. Turning ON and OFF, and Resetting the Copier

Panel Resetting

The Panel Reset Key resets all control panel settings to default settings including the number of copies to be made and zoom ratio.



* If the Automatic Document Feeder AF-3 is used, the original present on the Original Glass will be ejected out of the unit.

Useful Tip

The Panel Reset Key enables you to cancel all previous settings efficiently. To avoid miscopy, try to press the Panel Reset Key before attempting to make any setting for your own job.

Auto Reset Function

If no Key on the control panel is pressed within about 60 seconds after a copy cycle has been completed or copying settings made, the Auto Reset Function is activated to cause the copier to return to the initial mode automatically.

Useful Tip

The Auto Reset Function can be enabled or disabled by User's Choice. For more details, see "USER'S CHOICE." ↗ p. 56

This Chapter shows you how to make copies.

The Copying Overview is on p. 26.

These pages offer quick, at-a-glance instructions for making copies. Each step is keyed to a page number with more detailed information.

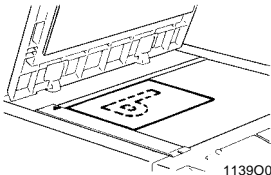
1. Copying Overview 26
2. Copying Procedure
 - Placing Originals 28
 - Checking the Copy Paper Size and Selecting the Paper Source 33
 - Zoom Ratio
 - Types of Zoom Ratios 34
 - Auto Size Mode 37
 - Zoom Ratio Table
(Original Size to Copy Paper Size) 39
 - Image Density 40
 - Book Copying 42
 - Finishing Modes
 - Finishing Modes 44
 - Selecting the Finishing Modes 45
 - Auto Dual Function 46
 - Number of Copies 47
 - Starting the Copy Cycle 48
 - Manual Bypass Copying 49

1. Copying Overview

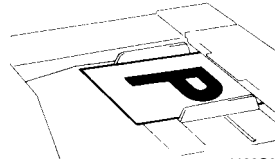
- Place the original in position (step 1), set the number of copies to be made (step 7), and press the Start Key (step 8). This will allow you to make a full-size copy or copies on paper of the same size as the original. The control panel selection (↔) you make will change the magnification ratio and the image density.

1. Placing the Original

- Raise the Original Cover and place the original face down on the Original Glass. ↪ p. 28
- Load the Originals face up on the Automatic Document Feeder. ↪ p. 30



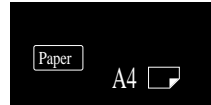
1139O0200A



1139O0210A

2. Checking the Copy Paper Size and Selecting the Paper Source

- Check whether the desired paper size is loaded into the Drawer or not. ↪ p. 33
- YES: Go step 3 or step 7.
- NO: Load the desired paper size or make a copy using a Manual Bypass Table.
 - Add Paper Indicator ↪ p. 72
 - Manual Bypass Copying ↪ p. 49



1142O138DA

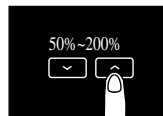
To change the Zoom Ratio

3. Selecting the Zoom Ratio

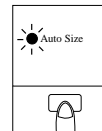
- Select the desired fixed zoom ratio. ↪ p. 35
- Set the zoom ratio. ↪ p. 36
- Select the Auto Size Mode. ↪ p. 37



1142O105CA



1142O034AA



1142O096CC

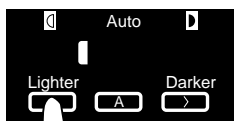
1. Copying Overview

To change the Exposure Level

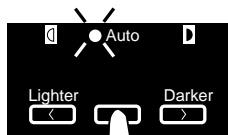


4. Setting the Image Density

- Set the image density in the Manual Exposure Mode. ↪ p. 41
- Select the Auto Exposure Mode. ↪ p. 41



1139O2012A



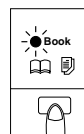
1139O2002A

To copy from a book



5. Selecting Book Copying

- Press the Book Copy Key to select the Book Copying Mode. ↪ p. 42



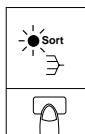
1142O097CC

To sort copies



6. Selecting the Finishing Mode

- Select Sort Mode. ↪ p. 44
- Select Non-Sort Mode. ↪ p. 44




1142O098CC



1142O099CB

7. Setting the Number of Copies


- Using the Multi-Copy Keys, set the number of copies to be made or the number of copy sets. ↪ p. 47
- If you enter a wrong number, press the Clear key  and enter the correct number. ↪ p. 47

8. Starting the Copy Cycle

- Press the Start Key to start the copy cycle. ↪ p. 48



1139O2360A

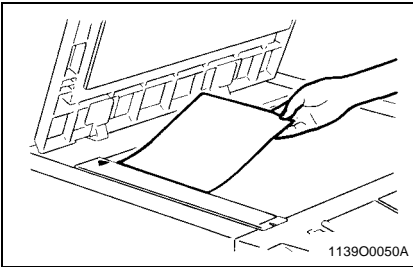
- Press the Stop Key  to stop the copy cycle. ↪ p. 48

2. Copying Procedure

Placing Originals

Place the original face down on the Original Glass.
Different methods are used to load the originals depending on the type of originals and whether the copier is equipped with an Automatic Document Feeder AF-3 (option).

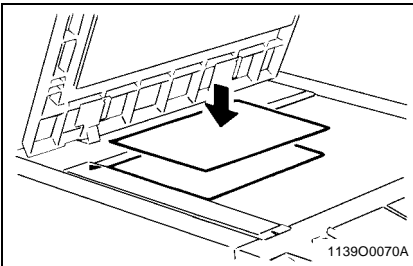
Sheet Originals (Standard Size)



- 1 Raise the Original Cover.
Place the original face down on the Original Glass, and align its rear left corner with the ► marker on the Original Width Scale on the left side of the platen.

- 2 Gently lower the Original Cover.

Highly Transparent Originals



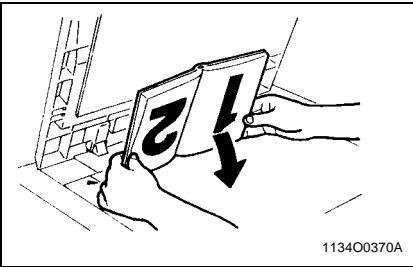
- 1 Place the original in the same way as the sheet originals.
- 2 Place a blank sheet of paper of the same size as the original over the original. Then, lower the Original Cover.

NOTE

If this is not done, the copy produced may be of very poor quality.

Book Original

*"Book original" refers to an open bound original.



Position the higher-numbered page on the Original Width Scale end.

NOTES

- *Not positioning an open book properly will result in copies with pages in incorrect order.*
- *Do not place an original weighing more than 3 kg on the Original Glass, as an image problem could result.*

Using the Automatic Document Feeder AF-3

The Automatic Document Feeder AF-3 automatically feeds sheet originals placed on the Document Feed Tray one by one. After the copy cycle has been completed, it automatically ejects the originals onto the Exit Tray.

Some originals may not be suitable for reliable operation in the AF-3. Here is a guide.

◆ **Originals Suitable for the AF-3**

Type of Originals	: Sheets
Type of Original Paper	: Plain paper (1-sided)
Original Size	: A3L, B4L, A4L, A4C, FLSL
Original Weight	: Standard Original Mode : 50 g to 110 g/m ² *Lightweight Original Mode : 40 g to 110 g/m ²

* **Lightweight Original Mode:**

This mode allows you to use originals weighing in the range between 40 g to 110 g/m².

Be sure to use the User's Choice to turn ON the Lightweight Original Mode when you need to make copies of originals with the AF-3 whose weight falls in the above range.

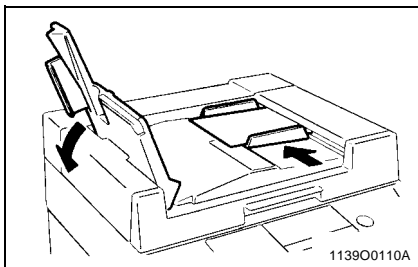
Not using the Lightweight Original Mode could damage such originals.

⇒ p. 57

◆ **Originals Not suitable for reliable operation in the AF-3.**

- Book
- Typing paper, paraffin paper, and other thin paper
- Transparencies, translucent paper
- Wrinkled, dog-eared, curled, or torn originals
- Clipped or stapled originals
- Carbon-backed originals

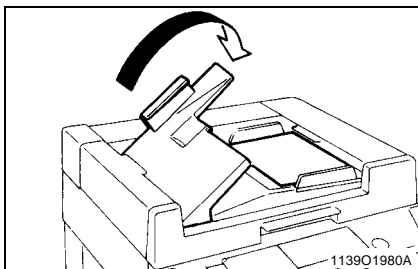
Loading Standard Size Originals



- 1 Swing the Document Exit Tray to the left as shown.
- 2 Place a neat stack of originals face up on the Document Feed Tray, and then slide the Document Guide Plates to the size of the originals.

NOTES

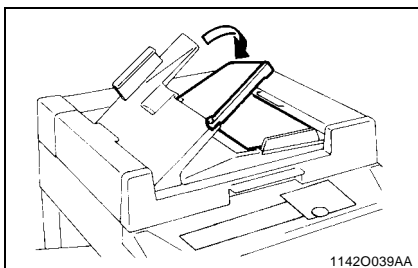
- *The maximum number of originals that can be loaded is 30 (A4 or smaller).
* The capacity is 15 for A3 or B4 size originals.*
- *Make sure that the top level of the original stack does not exceed the ▼ marking.*
- *Also make sure that the Document Guide Plates are in touch with the edges of the original stack.*



- 3 Swing the Document Exit Tray back again.

NOTE

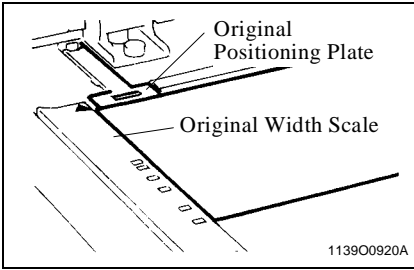
The copy cycle cannot be initiated unless you swing the Document Exit Tray back again.



Pull out the Document Exit Tray Extender if you are using larger paper.

2. Copying Procedure

For Originals Not Suitable for Reliable Operation of the AF-3

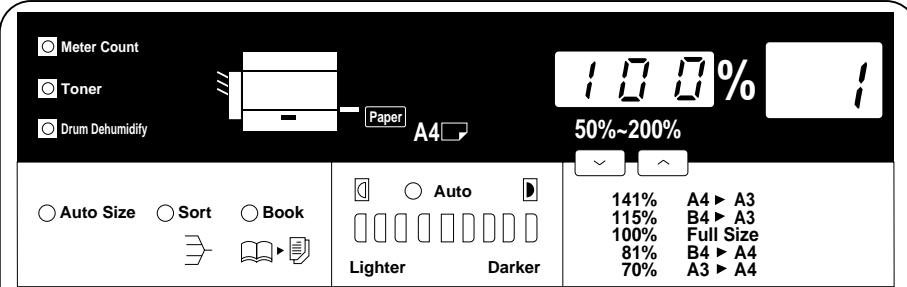


- 1 Raise the AF-3 and place the original face down on the Original Glass. Align the rear left corner of the original with the ► marker on the Original Width Scale. Then press the rear edge of the original up against the Original Positioning Plate at the rear side of the Original Glass.
- 2 Gently lower the AF-3 and start the copy cycle.

NOTE

The AF-3 does not automatically eject an original manually placed on the Original Glass. If you have two or more originals to make copies from, place the originals on the Original Glass one by one.

Checking the Copy Paper Size and Selecting the Paper Source



1142O154DB

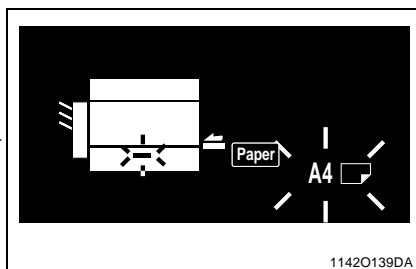
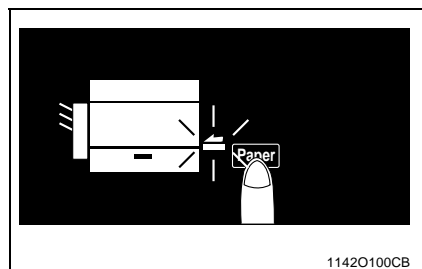
When the copier is not equipped with the Multi Bypass Table, it is necessary to check that the desired paper size is loaded into the Drawer. If it is not loaded, make a copy using a Manual Bypass Table or load the desired paper size into the Drawer.

Manual Bypass Copying ⇨ p. 49
Add Paper Indicator ⇨ p. 72

When the copier is equipped with the Multi Bypass Table, the paper source (paper size) can be selected, Drawer or Multi Bypass Table.

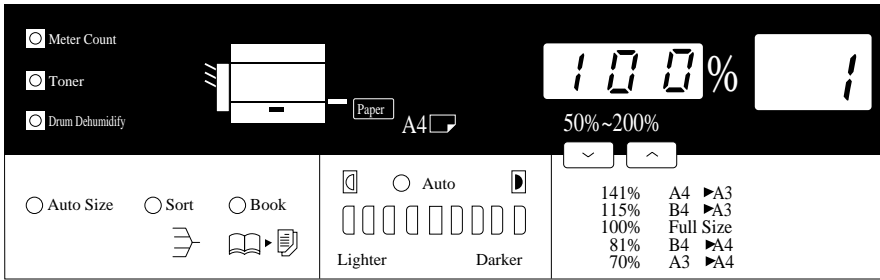
Selecting the Paper Source (Only when the Multi Bypass Table is used)

- Each time the Paper Select Key is pressed, the Paper Source Indicators, Drawer Indicator or Multi Bypass Indicator, light up alternately. Also, the Paper Size Indicator corresponding to that of the Drawer lights up.



2. Copying Procedure

Zoom Ratio



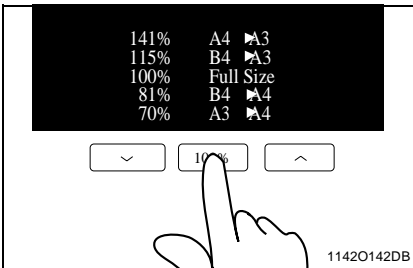
1142O154DB

The zoom ratio can be set manually by the operator when in the Manual Mode or will be set automatically by the copier when in the Auto Size Mode. Select the appropriate mode according to your needs.

The selected zoom ratio is shown on the Zoom Ratio Indicator.

Types of Zoom Ratios

Fixed Zoom Ratios



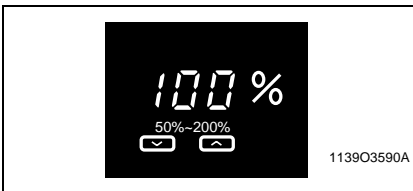
1142O142DB

Three reduction ratios (50%, 70%, 81%)

Three enlargement ratios (115%, 141%, 200%)

And Full Size (100%).

Zoom Ratios

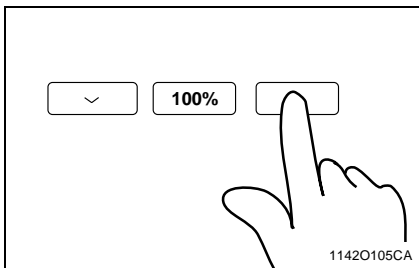


1139O3590A

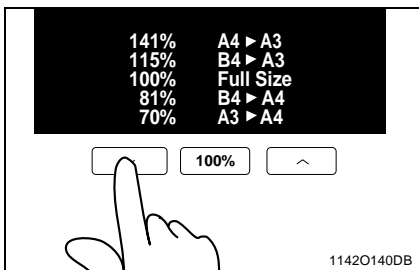
Any ratio from 50% to 200% (in 1% increments) can be selected.

2. Copying Procedure

Selecting the Fixed Zoom Ratios



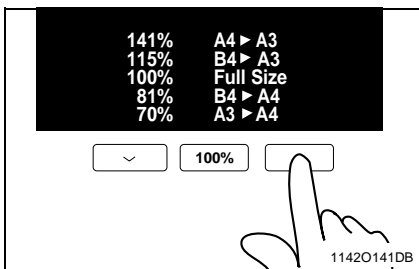
Press the Reduction, Full Size, or Enlargement Key to select a fixed zoom ratio of your choice.



<Reduction>

Each time the Reduction Key is pressed, it selects a new reduction ratio.

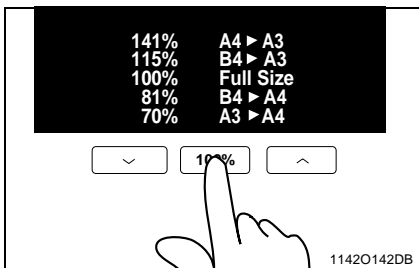
* The Zoom Ratio Indicator displays the actual percentage of the selected ratio.



<Enlargement>

Each time the Enlargement Key is pressed, it selects a new enlargement ratio.

* The Zoom Ratio Indicator displays the actual percentage of the selected ratio.

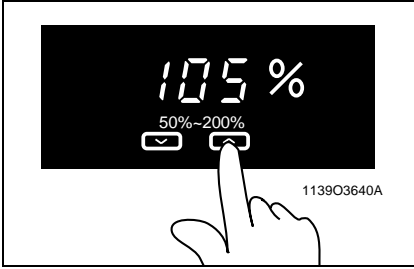


<Full Size>

Press the Full Size Key to select full size (100%).

2. Copying Procedure

Setting a Zoom Ratio



Hold down the Zoom Down (v) or Up (^) Key until the desired zoom ratio is reached.

(v) Zoom Down Key makes the ratio smaller

(^) Zoom Up Key makes the ratio greater

Zoom range: 50% to 200%

Useful Tip

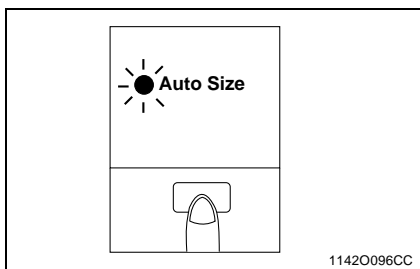
To save time, first select the fixed ratio nearest to the target zoom ratio before using the Zoom Up or Down Key.

Auto Size Mode

- The Auto Size Mode can be selected only when the copier is equipped with an AF-3.
- In the Auto Size Mode, the copier automatically selects the correct zoom ratio according to the original size and copy paper size.

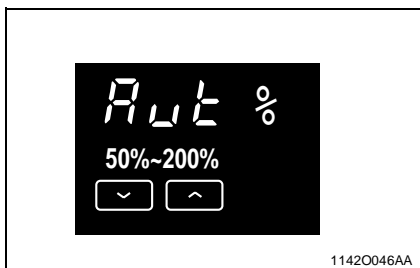
Selecting the Auto Size Mode

1 Press the Auto Size Mode Key.



The Zoom Ratio Indicator shows

Aut

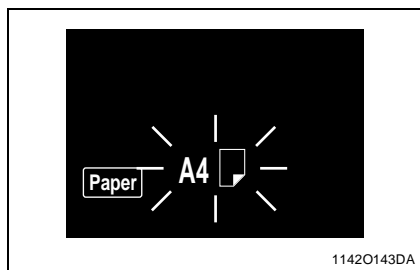


2 Check the copy paper size.

⇨ p. 33

If the desired paper size is not loaded in the Drawer, load it into the Drawer.

Add Paper Indicator ⇨ p. 72

**Useful Tip**

This mode is very helpful for neat filing when you need to make copies from originals of assorted sizes.

2. Copying Procedure

NOTE

The copier has been factory-set to automatically select the Manual Mode. This default setting can be changed to the Auto Size Mode by using the User's Choice.

Initial mode ⇨ p. 22

User's Choice ⇨ p. 57

2. Copying Procedure

Zoom Ratio Table (Original Size to Copy Paper Size)

Metric Size

Original Size	Copy Paper Size	Zoom Ratio
A3 297 × 420 mm 11-3/4" × 16-1/2"	A4	70%
	A5	50%
	B4	86%
	B5	61%
A4 210 × 297 mm 8-1/4" × 11-3/4"	A5	70%
	A6	50%
	B5	86%
	B6	61%
A5 148 × 210mm 5-3/4" × 8-1/4"	A3	141%
	B4	122%
	A6	70%
	B6	86%
A6 105 × 148 mm 4-1/4" × 5-3/4"	A4	141%
	A5	200%
	B4	173%
	B5	122%
B4 257 × 364 mm 10" × 14-1/4"	A4	81%
	A5	57%
	B5	70%
B5 182 × 257 mm 7-1/4" × 10"	B6	50%
	A3	115%
	A4	115%
	B4	141%
B6 128 × 182 mm 5" × 7-1/4"	A6	81%
	A4	164%
	A5	115%
	B4	200%
B5	B4	141%
	B5	141%

Inch Size

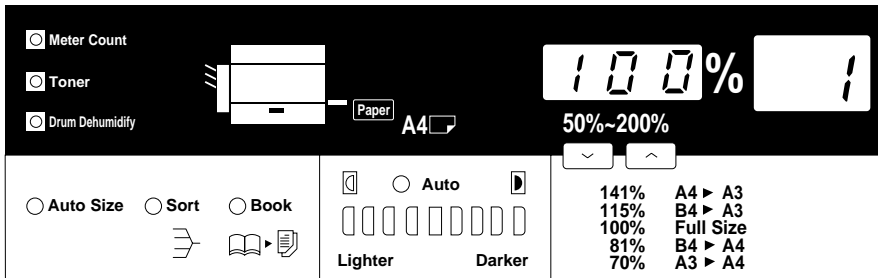
Original Size	Copy Paper Size	Zoom Ratio
11" × 17" 279.4 × 431.8 mm	11" × 14"	82%
	Legal	77%
	Foolscap	76%
	Letter	64%
	Invoice	50%
11" × 15" 279.4 × 381 mm	11" × 14"	93%
	Legal	77%
	Foolscap	77%
	Letter	73%
	Invoice	50%
11" × 14" 279.4 × 355.6 mm	Legal	77%
	Foolscap	77%
	Letter	77%
	Invoice	50%
Legal 8-1/2" × 14" 215.9 × 355.6 mm	Foolscap	92%
	Letter	78%
	Invoice	60%
Foolscap 8-1/2" × 13" 215.9 × 330.2 mm	11" × 17"	121%
	Letter	84%
	Invoice	64%
Letter 8-1/2" × 11" 215.9 × 279.4 mm	11" × 17"	129%
	11" × 14"	107%
	Invoice	64%
Invoice 5-1/2" × 8-1/2" 139.7 × 215.9 mm	11" × 17"	129%
	11" × 14"	127%
	Legal	200%
	Foolscap	154%
Letter	Foolscap	152%
	Letter	129%

Zoom Ratio = Copy Paper Size ÷ Original Size

1" (inch) = 25.4 mm
1 mm = 0.0394" (inch)

2. Copying Procedure

Image Density

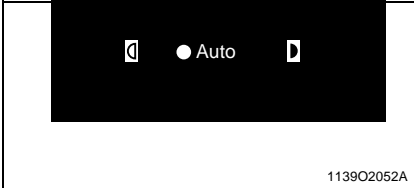


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The image density level of copies can be adjusted either in the Auto or Manual Exposure Mode. Select the appropriate mode according to your particular needs.

Types of Exposure Modes

Auto Exposure Mode



1139O2052A

In the Auto Exposure Mode, the copier makes copies with optimum image density by automatically adjusting the exposure level according to the image density of the original.

Manual Exposure Mode



1139O2062A

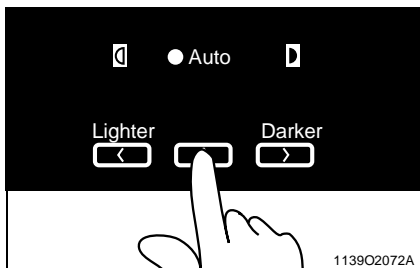
In the Manual Exposure Mode, you can vary the exposure level to make a copy with a desired image density.

Useful Tips

- The exposure level in the Auto Exposure Mode can be varied by using the User's Choice Mode to suit your needs. ⇨ p. 58
- The copier has been factory-set to automatically select the Auto Exposure Mode. The User's Choice can be used to change this default setting to the Manual Exposure Mode. ⇨ p. 59

Selecting the Exposure Mode

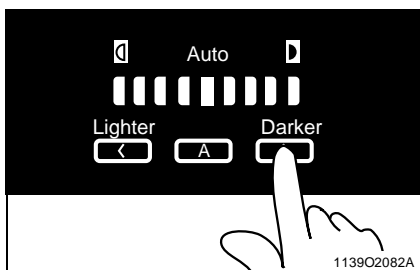
Auto Exposure Mode



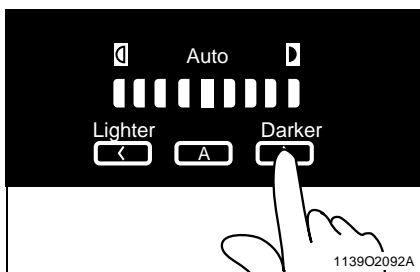
Press the Auto Exposure Mode Key (A) as necessary to light up the Auto Exposure Indicator (Auto).

* Each time the Auto Exposure Mode Key (A) is pressed, the Manual and Auto Exposure Mode are selected alternately.

Manual Exposure Mode

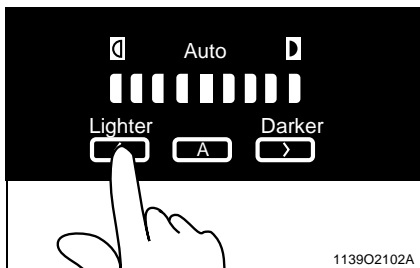


1 Press the Exposure Control Key (<) or (>) to light up the Exposure Level Indicator.



2 Hold down the Exposure Control Key (<) or (>) until the desired exposure level is reached.

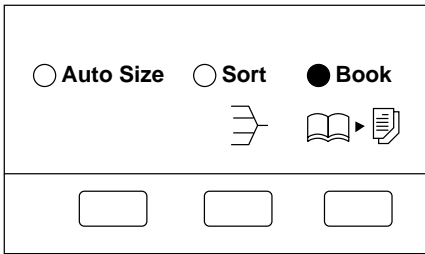
To make the image darker:
Press or hold down the Exposure Control Key (>).



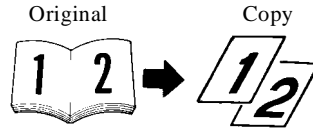
To make the image lighter:
Press or hold down the Exposure Control Key (<).

2. Copying Procedure

Book Copying



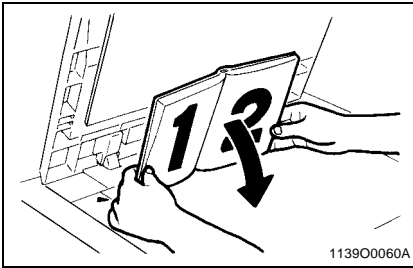
1142O150CA



1139O1990A

- Select Book Copying when you want to make a 1-sided copy of each page of an open book.

Selecting the Book Copying Mode



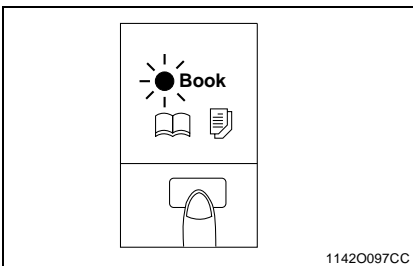
1139O0060A

- 1 Position the lower-numbered page on the Original Width Scale end.
If the book is thick, you can make copies with the Original Cover raised.

* "Book original" refers to an open bound original.

NOTES

- *Not positioning an open book properly will result in copies with pages in incorrect order.*
- *Do not look directly at the Original Glass surface, as a very intense beam of light can be emitted.*

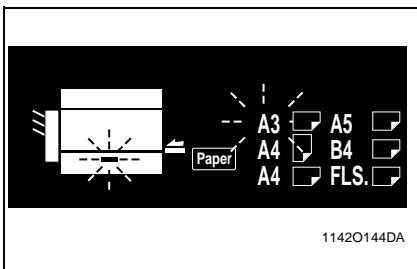


1142O097CC

- 2 Press the Book Key.
 - The Book Indicator lights up.

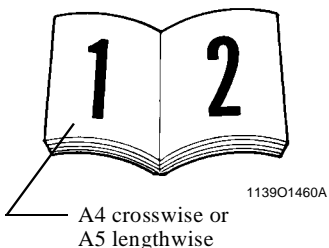
2. Copying Procedure

NOTE



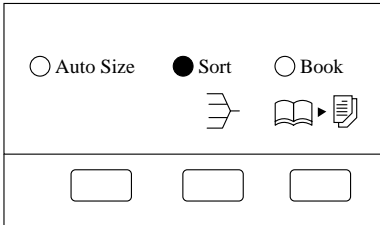
- If paper other than A4 crosswise or A5 lengthwise paper is loaded into the Drawer when the Book Copying Mode is selected, the Drawer Indicator and the corresponding Paper Size Indicator blink on the Control Panel.

In such a case, load paper of the same size and in the same direction of each page of a book into the Drawer.



2. Copying Procedure

Finishing Modes



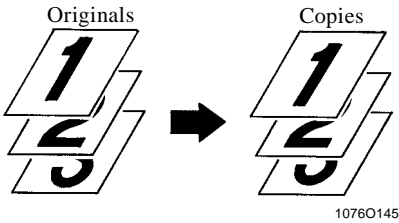
There are two different finishing modes: Non-Sort and Sort.

Select the appropriate mode according to your particular needs.

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Finishing Modes

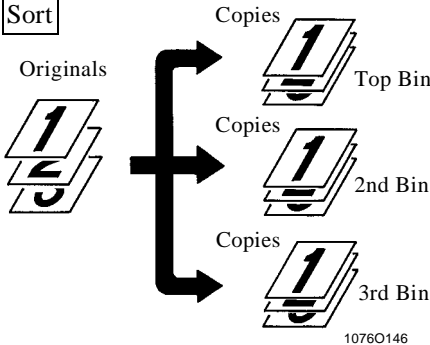
Non-Sort



- In the Non-Sort Mode, all copies are fed out onto the Top Bin without being sorted.

* The capacity of the Top Bin is 50. If more than 50 copies are made in the Non-Sort Mode, the Sorter uses the 2nd, 3rd, and subsequent Bins to hold those excess copies.

Sort



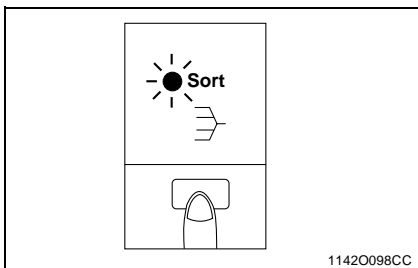
- In the Sort Mode, copies are sorted into complete sets of the originals. Copies are fed out into Sorter Bins. This mode is effective when making multiple copies from a multiple number of originals.

Useful Tip

The copier has been factory-set to automatically select Non-Sort. The User's Choice can, however, be used to change this default setting to give priority to Sort.

User's Choice p. 61

Selecting the Finishing Modes

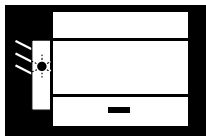


Press the Finishing Mode Select Key to select the desired mode.

* If the Sort Mode is selected, the Sort Indicator lights.

NOTES

- *The Sort Mode cannot be selected unless the copier is equipped with the 10-Bin Sorter.*
- *The capacity of each Sorter Bin is 25 copies in Sort-Mode.*



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If this capacity is exceeded, the Remove Copies Indicator blinks on the Monitor Display and the Start Key turns orange, inhibiting the initiation of a new copy cycle.

2. Copying Procedure

Auto Dual Function

Each of the Sorter Bins holds up to 25 sheets of paper. However, the Auto Dual Function allows sorting of copies of up to 50 originals under certain conditions.

Auto Dual Function in the Sort Mode

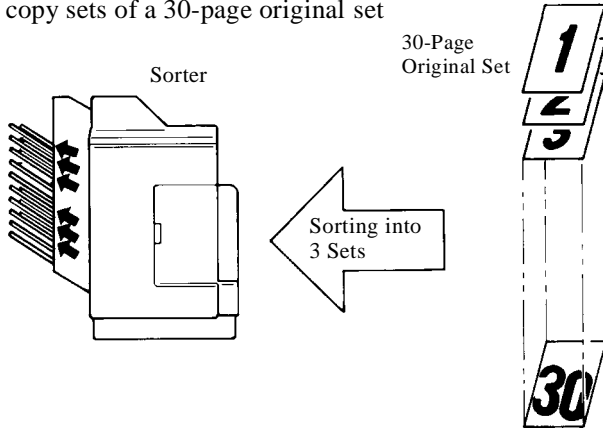
When 5 or less copies are made from an original set consisting of more than 25 originals in the Sort Mode, the Sorter is automatically switched into the Auto Dual Function Mode using the 6th to 10th Bins.

Copies	Bins used
1st to 25th sorted copies	Top to 5th Bins
26th to 50th sorted copies	6th to 10th Bins

* If the number of copies selected exceeds 5, the new copy cycle stops at the 25th original.

Example: Making 3 copy sets of a 30-page original set

- Top three Bins contain 25 sorted copies.
- The 6th to 8th Bins contain 5 sorted copies.

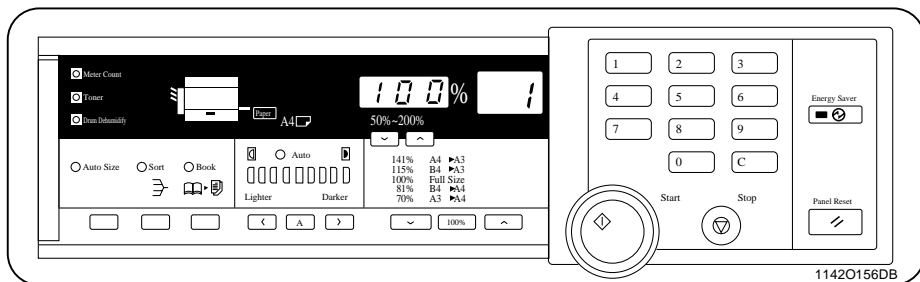


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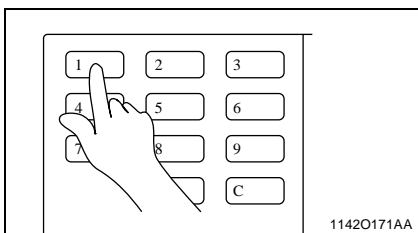
* To have a complete set from the originals, place the copies from the 6th Bin on top of those from the Top Bin. In the same way, place copies from the 7th Bin on top of those from the 2nd Bin, and so on.

2. Copying Procedure

Number of Copies



Setting the Number of Copies



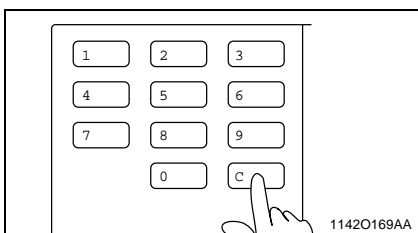
Using the Multi-Copy Keys, enter the number of copies to be made.

* The maximum number that can be set is 99.



Example:
To make 18 copies, press Key ① and then Key ⑧, in that order.
The Multi-Copy Display now shows "18."

Correcting the Number Entry



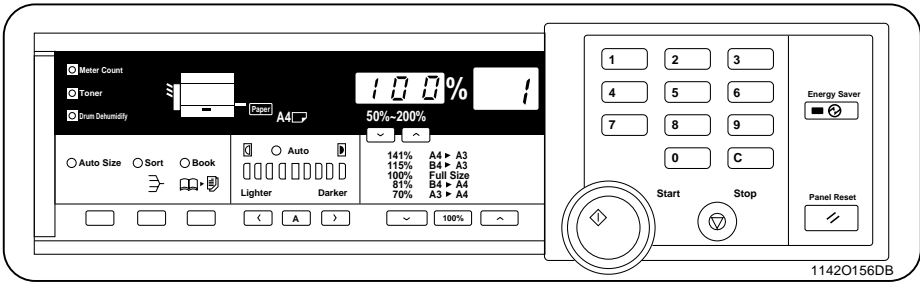
To correct or reset a number entry, press the Clear Key.

* The Multi-Copy Display is reset to "1."

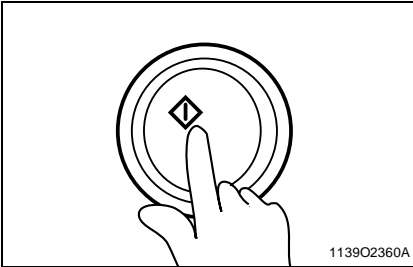


2. Copying Procedure

Starting the Copy Cycle



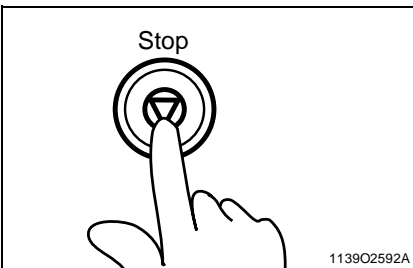
Starting the Copy Cycle



- 1 Check the control panel to make sure that you have set up your copy job correctly.
- 2 Press the Start Key, if it is green. The Start Key turns orange when the copy cycle starts.

In a multi-copy cycle, the number on the Multi-Copy Display is decreased by 1 each time a copy is fed out of the copier. The Display is reset to the original setting as soon as the multi-copy cycle is completed.

Stopping a Multi-Copy Cycle



To stop a multi-copy cycle in progress, press the Stop Key.

The Start Key soon turns green and the copier stops. The Multi-Copy Display shows the number of copies yet to be made.

Manual Bypass Copying

Use the Manual Bypass to make copies on paper not loaded in the Drawer, or to copy onto transparencies, translucent paper, or any other special paper.

If the copier is equipped with a Multi Bypass Table (option), you can load more than one sheet of paper for a continuous run.

◆ Types of Paper

- Plain paper (weighing 60 g to 90 g/m²)
- Heavyweight paper (weighing 90 g to 157 g/m²)
- Transparencies, translucent paper

◆ Paper Size

- Width: 100 mm to 297 mm
- Length: 140 mm to 432 mm

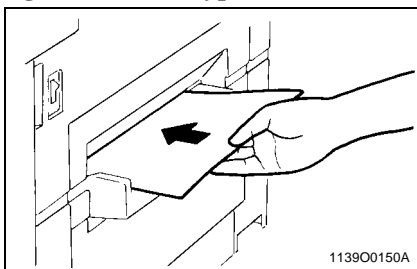
◆ Capacity

- Plain paper, heavyweight paper, transparencies, translucent paper ... 1 sheet at a time

<Multi Bypass Table>

- Plain paper: Approx. 50 sheets
- Heavyweight paper, transparencies, translucent paper: Approx. 20 sheets

Using the Manual Bypass Table



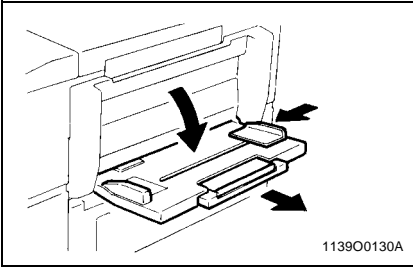
- 1 Place the original on the Original Glass and make the control panel settings.
- 2 Insert the copy paper into the Manual Bypass Table.
 - ◆ This automatically starts the copy cycle.

NOTES

- *Insert the copy paper one sheet at a time.*
- *Do not insert a sheet of paper while the copier is warming up or in a multi-copy cycle.*
- *The Auto Size Mode and Book Copying Mode cannot be selected for manual bypass copying.*

2. Copying Procedure

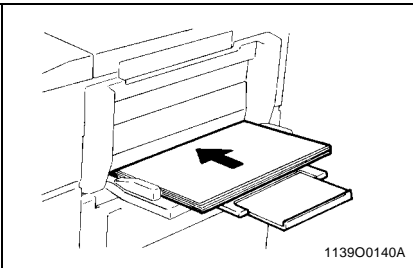
Using the Multi Bypass Table (Option)



- 1 Place the original on the Original Glass and make the control panel settings.
- 2 Swing down the Multi Bypass Table and slide the Paper Guide Plate to the size of the copy paper.

NOTE

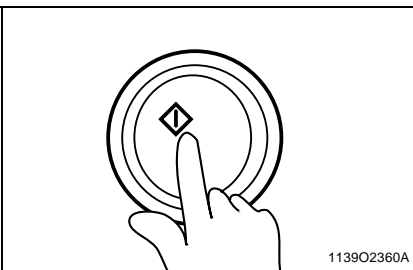
Pull out the Multi Bypass Table Extender if you are using larger paper.



- 3 Place a neat stack of copy paper on the Table and insert it into the copier until it stops.

NOTES

- *Before inserting, fan the paper stack well if you are using transparencies or translucent paper.*
- *Correct any curl if you are using heavyweight paper.*



- 4 Using the Multi-Copy Keys, enter the number of copies to be made.
- 5 Press the Start Key to start the copy cycle. ➔ p. 48

NOTES

- *Do not insert the paper while the copier is in the warm-up cycle or a multi-copy cycle.*
- *The Auto Size and Book Copying Mode cannot be selected for manual bypass copying.*

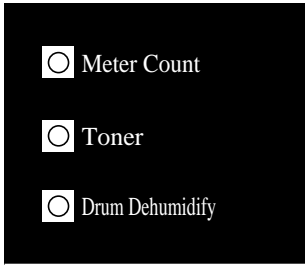
Chapter 4

Auxiliary Functions

This Chapter explains about the Auxiliary functions that can be used for specific purposes.

1. Checking the Total Number of Copies Mode 52
2. Auxiliary Toner Replenishing Mode
(Increasing the Image Density) 54
3. Drum Dehumidify Function 55
4. User's Choice 56

1. Checking the Total Number of Copies Mode



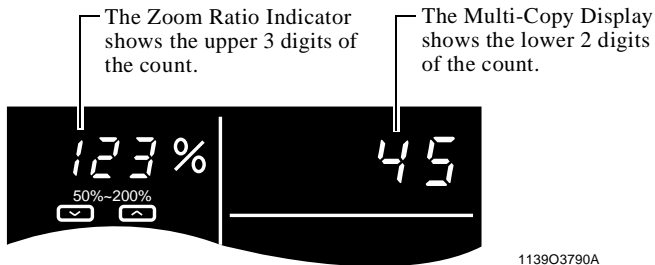
This function allows you to check the total count of the two counters of the copier.

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Types of Counters

- Total Counter : Shows the total number of copies made since the installation of the copier.
- Size Counter : Shows the number of copies made on paper of a size preset by the Technical Representative.

Counter Display

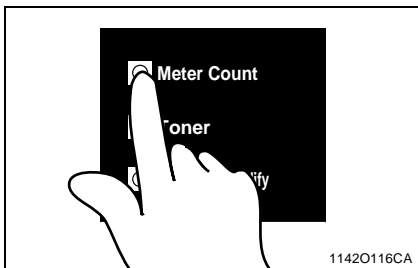


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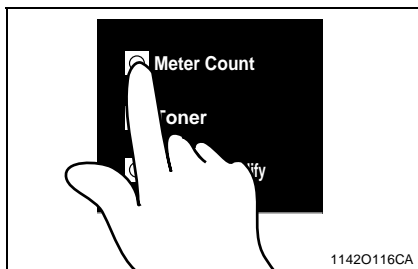
Example: The count is 12,345 (copies).

1. Checking the Total Number of Copies Mode

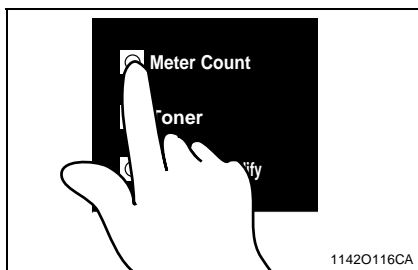
Using the Meter Count Function



- 1 Press the Meter Count Key once.
The count of the Total Counter is shown across the Zoom Ratio Indicator and Multi-Copy Display.

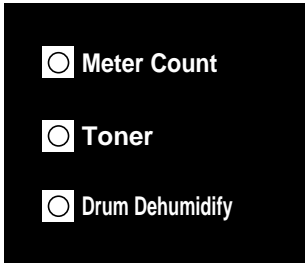


- 2 Press the Meter Count Key again.
The count of the Size Counter is shown across the Zoom Ratio Indicator and Multi-Copy Display.



- 3 Press the Meter Count Key once again.
This restores the copier to the state before entering the Meter Count Mode.

2. Auxiliary Toner Replenishing Mode (Increasing the Image Density)

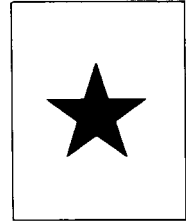
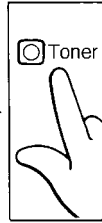
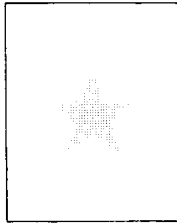
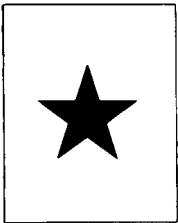


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The copier tends to exhaust the supply of toner rapidly when making a number of copies from an original with dark solid areas. As a result, the image density of the copy will become lighter. In such a case, you can set the copier into the Auxiliary Toner Replenishing Mode.

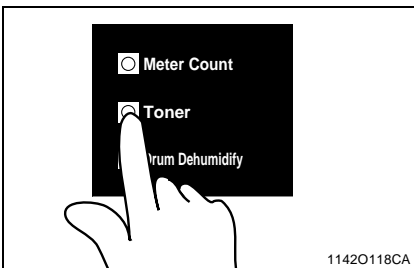
Original

Copy

Copy Made After
Auxiliary Toner
Replenishing

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Even if you continue making copies after the image density has become lighter, the copier will gradually recover the normal image density. The Auxiliary Toner Replenishing Mode can, however, be used to obtain the normal image density more quickly.



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Press the Auxiliary Toner Replenishing Key.

This causes the copier to initiate toner replenishing, which lasts for 90 seconds at maximum.

NOTES

- The copier cannot be set into the Auxiliary Toner Replenishing Mode while it is warming up.
- Do not turn the Power Switch OFF or open the Front or Right Door while in the Auxiliary Toner Replenishing Mode.

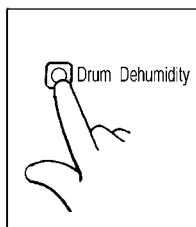
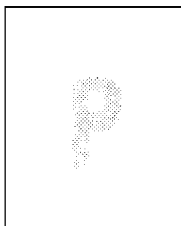
3. Drum Dehumidify Function

- Meter Count
- Toner
- Drum Dehumidify

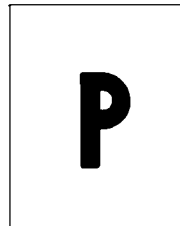
During high humidity periods or when there are sudden rapid changes in humidity (especially when you are using a heater in winter), condensation^{*1} could form on the surface of the PC Drum^{*2}, resulting in blotchy copies. In such instances, use the Drum Dehumidify Key to dry the surface of the PC Drum.

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Before a Drum Dehumidify Operation



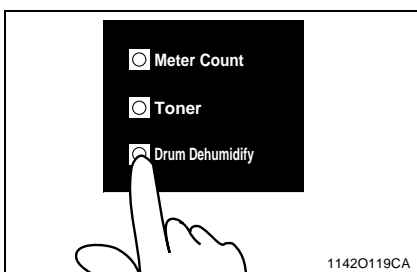
After a Drum Dehumidify Operation



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Chapter 4

Auxiliary Functions



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- 1 Press the Drum Dehumidify Key. This sets the copier into the Drum Dehumidify Mode which lasts for 90 seconds.
- 2 Make a copy to check that the copy image is clear. Run the Drum Dehumidify cycle once again if the copy image is not yet clear.

Useful Tip

A copy cycle can be initiated even while the copier is in the Drum Dehumidify Mode.

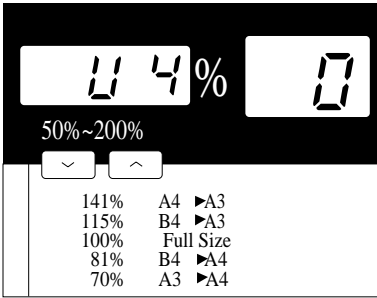
NOTE

The copier cannot be set into the Drum Dehumidify Mode while it is warming up.

*1: Condensation: A phenomenon in which small drops of water are formed on cold surfaces, such as the surface of the PC Drum.

*2: PC Drum: Functions in the copier as film does in a camera.

4. User's Choice



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The copier has been set so that the most frequently used settings are automatically selected in the initial mode.

The User's Choice allows you to select the default settings which are automatically selected in the initial mode according to your own needs.

By setting defaults for the paper size, zoom ratio and other settings that are most frequently used, time and effort to make extra settings will be eliminated when the copier is turned ON or when the auto reset function is activated.

For more details, consult your Technical Representative.

Functions Available in User's Choice

Choice Code	Function	Choice Code	Function
U- 4	Lightweight Original Mode	U-20	Auto Panel Reset ON/OFF
U-12	Auto Size/Manual priority	U-21	Energy Saver Mode ON/OFF and Timing
U-13	Default auto exposure level	U-23	Auto Panel Reset for Plug-In Counter
U-14	Default exposure mode/level	U-24	Sort/Non-Sort Auto Switching ON/OFF
U-15	Default Finishing mode		

Description of Each User's Choice Function

U-4 Lightweight Original Mode

- Selects either one of the following settings when the copier is equipped with the Automatic Document Feeder AF-3.

If "0" is selected:

You can make copies only from originals of standard weight (Normal Mode).

If "1" is selected:

You can make copies from lightweight originals, as well as originals of the standard weight (Lightweight Original Mode).

Setting Value	Description	Initial Setting
0	Lightweight Original Mode OFF	✓
1	Lightweight Original Mode ON	

U-12 Auto Size/Manual priority

- Specifies the default mode automatically selected in the initial mode.

Setting Value	Description	Initial Setting
1	Auto Size (AS)	
2	Manual	✓

4. User's Choice

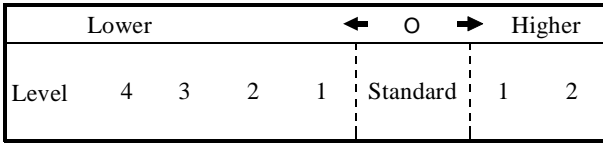
U-13 Default auto exposure level

- Determines the default exposure level in the Auto Exposure Mode.

Setting Value	Description	Initial Setting
46	Low, level 4	
47	Low, level 3	
48	Low, level 2	
49	Low, level 1	
50	Standard	✓
51	High, level 1	
52	High, level 2	

* When the exposure level is "Low," the greater the level number is, the lower the exposure level.

When the exposure level is "High," the greater the level number is, the higher the exposure level.



U-14 Default exposure mode/level

- Determines the default exposure mode, either Auto or Manual, selected when the control panel settings are reset.

If Auto is selected, this function also allows you to specify the default exposure level (EXP) in the Manual Exposure Mode, after the Auto Exposure Mode has been canceled.

If Manual is selected, the function also allows you to specify the default exposure level (EXP) in the Manual Exposure Mode.

If any value between "0" and "8" is selected:

The Auto Exposure Mode is selected.

If any value between "10" and "18" is selected:

The Manual Exposure Mode is selected.

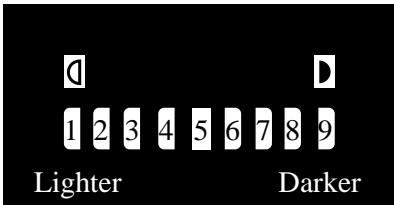
Auto Exposure Mode as Default

Setting Value	Description		Initial Setting
	Default Mode	Exposure Setting in Manual Mode	
0	Auto	Manual EXP1	
1	Auto	Manual EXP2	
2	Auto	Manual EXP3	
3	Auto	Manual EXP4	
4	Auto	Manual EXP5	✓
5	Auto	Manual EXP6	
6	Auto	Manual EXP7	
7	Auto	Manual EXP8	
8	Auto	Manual EXP9	

4. User's Choice

Manual Exposure Mode as Default

Setting Value	Description	Initial Setting
10	Manual Exposure Mode / EXP1	
11	Manual Exposure Mode / EXP2	
12	Manual Exposure Mode / EXP3	
13	Manual Exposure Mode / EXP4	
14	Manual Exposure Mode / EXP5	
15	Manual Exposure Mode / EXP6	
16	Manual Exposure Mode / EXP7	
17	Manual Exposure Mode / EXP8	
18	Manual Exposure Mode / EXP9	



* With EXP5 at the central level, the exposure level will be lower as the number becomes smaller, and it is higher as the number becomes greater.

113905282A

U-15 Default Finishing mode

- Determines the default finishing mode when the copier is equipped with the Sorter.

Setting Value	Description	Initial Setting
0	Non-Sort	✓
1	Sort	

U-20 Auto Panel Reset ON/OFF

- Selects whether to activate the Auto Panel Reset function 60 seconds after a copy cycle has been completed or a control panel key has been pressed.

If "0" is selected:

The control panel settings remain valid even after 60 seconds.

If "1" is selected:

The control panel settings are canceled and the copier is reset into the default mode after 60 seconds. (Auto Panel Reset)

Setting Value	Description	Initial Setting
0	Auto Panel Reset is not activated.	
1	Auto Panel Reset is activated (after 1 minute)	✓

4. User's Choice

U-21 Energy Saver Mode ON/OFF and Timing

- Selects whether or not to set the copier into the Energy Saving Mode after a given time after a copy cycle has been completed or a Key is pressed.

If "0" is selected:

The copier is not set into the Energy Saving Mode after the given time.

If "1" is selected:

The copier is automatically set into the Energy Saving Mode after the given time. The time it takes the copier to enter the Energy Saving Mode can also be selected from the range of 1 to 10 minutes.

Setting Value	Description	Initial Setting	Setting Value	Description	Initial Setting
0	Energy Saving Mode disabled	✓	6	Energy Saving Mode enabled (6 min.)	
1	Energy Saving Mode enabled (1 min.)		7	Energy Saving Mode enabled (7 min.)	
2	Energy Saving Mode enabled (2 min.)		8	Energy Saving Mode enabled (8 min.)	
3	Energy Saving Mode enabled (3 min.)		9	Energy Saving Mode enabled (9 min.)	
4	Energy Saving Mode enabled (4 min.)		10	Energy Saving Mode enabled (10 min.)	
5	Energy Saving Mode enabled (5 min.)				

U-23 Auto Panel Reset for Plug-In Counter

- Determines whether the copier is set into the initial mode when the Plug-In Counter is pulled out after a copy cycle has been run using the Plug-In Counter.

Setting Value	Description	Initial Setting
0	Copier is not reset.	
1	Copier is initialized when the Plug-In Counter is pulled out.	✓

U-24 Sort/Non-Sort Auto Switching ON/OFF

- Specifies whether to enable automatic switching between the Sort and Non-Sort Mode under the following conditions when the copier is equipped with the Sorter and the Automatic Document Feeder.

Conditions

- The copy cycle is initiated using a single original in the Sort Mode.
- The copy cycle is initiated to make two or more copies using two or more originals in the Non-Sort Mode.

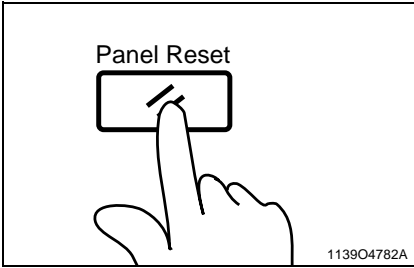
Setting Value	Description	Initial Setting
0	Sort/Non-Sort switching OFF	
1	Sort/Non-Sort switching ON	✓

U-28 Auto Shut Off

- The auto shut-off function shuts down the copier a given period of time after the last operation.

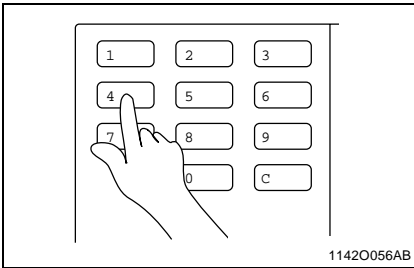
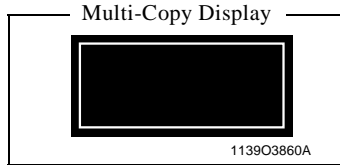
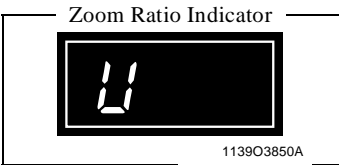
Setting Value	Description	Initial Setting
1	1 min.	
2	2 min.	
:	:	
:	:	
30	30 min.	✓
:	:	
:	:	
98	98 min.	
99	120 min.	

4. User's Choice

Making the User's Choice Mode Settings

1 Keep pressing the Panel Reset Key for about 3 seconds.

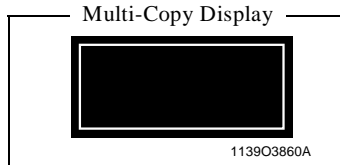
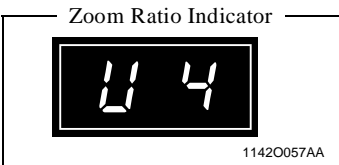
* U appears on the Zoom Ratio Indicator, and the indicator on the Multi-Copy Display goes out.



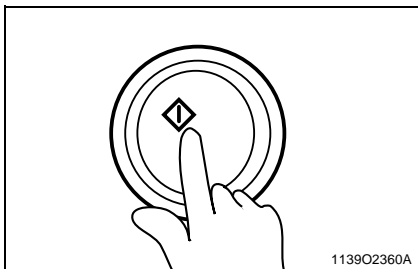
2 Using the Multi-Copy Keys, enter the desired Choice Code number.

* If you have pressed an incorrect number, press the Clear Key, then enter the correct number.

Example: Selecting the
Lightweight Original
Mode:
Press **4** and the Zoom
Ratio Indicator shows
U 4

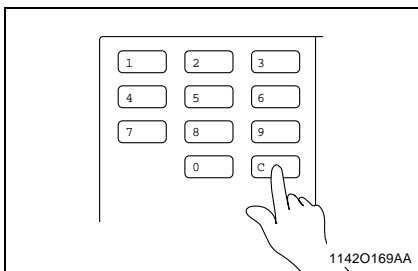
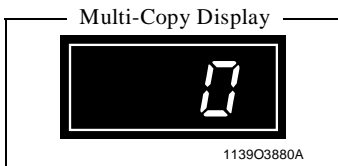
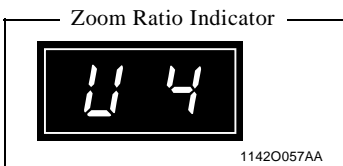


4. User's Choice



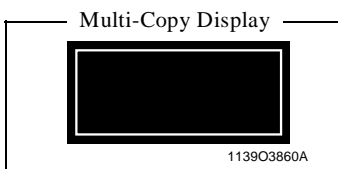
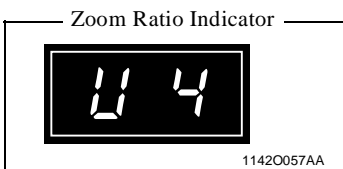
3 Press the Start Key.

* This causes the current setting of that particular choice code to be shown on the Multi-Copy Display.

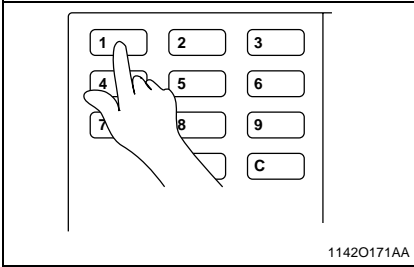


4 Press the Clear Key.

* This clears the current setting.



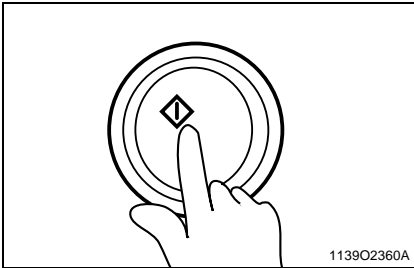
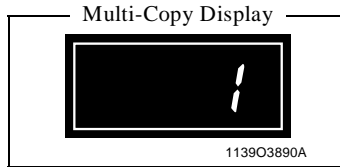
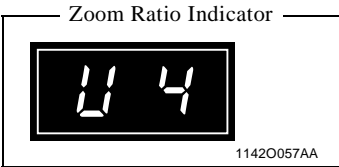
4. User's Choice



5 Press the appropriate Multi-Copy Key or Keys to enter the new setting.

See pages 57-63 for the Choice Code.

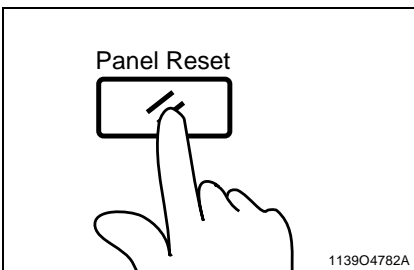
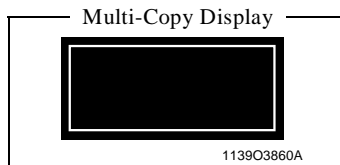
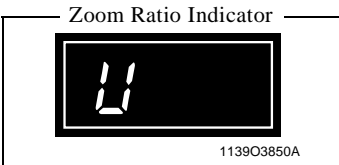
* The Multi-Copy Display shows the new setting.



6 Press the Start Key.

* This enters the new setting.

Repeat steps 2 to 6 to make new settings for other User's Choices.



7 Press the Panel Reset Key.

* This allows the copier to leave the User's Choice Mode and the control panel shows the default settings again.

NOTE

If the Choice Code number on the Zoom Ratio Indicator or codes on the Multi-Copy Display start blinking when the Start Key is pressed following step 2 or 5, that entry is invalid. Check the correct number. Press the Clear Key and enter the correct one.

Chapter 5

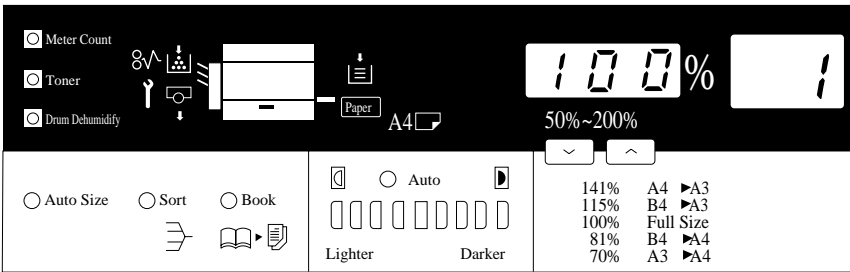
When an Indicator Lights Up

(Replenishing Supplies, Clearing Misfeeds, and Correcting a Closure Failure)

This Chapter explains about the details of the various warning indications given on the control panel, including those that entail inhibition of the initiation of a copy cycle. It also shows action to be taken for each case.

1. Quick Reference for Indicator Lights 68
2. Detailed Instructions for Indicator Lights
 - Add Toner Indicator 70
 - Add Paper Indicator 72
 - I.U. Service Life Indicator 76
 - Closure Failure Indicator 85
 - Misfeed Indicator
 - Misfeed Indicator and Monitor Display 86
 - Misfeed Clearing Procedure
 - : Copier EP1050 87
 - : Automatic Document Feeder AF-3 90
 - : Sorter S-104 92
 - Call-Tech.-Rep. Indicator 93

1. Quick Reference for Indicator Lights






1142O158EA

When the copier encounters any of the following conditions, a corresponding warning indicator lights up. Some of the warning conditions entail inhibition of the initiation of a copy cycle:



- A control panel key or keys have been incorrectly operated.
- Not all necessary conditions are met to start a copy cycle.
- The copier requires the operator's intervention during a copy cycle.

The following table explains the most important warning conditions. You will find more detailed procedures on the page referenced in the "Action" column.

Warning Indicators

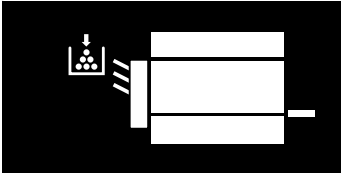
Indicator	Copier State	Action
Add Toner Indicator  <small>1139O3270A</small>	The copier has run out of toner. (Warning only and a copy cycle can still be initiated.)	Add toner by following the steps given in the "Add Toner Indicator" section. ➡ p. 70
Add Paper Indicator  <small>1139O3910A</small>	The paper has run out.	Add paper by following the steps given in the "Add Paper Indicator" section. ➡ p. 72
Misfeed Indicator  <small>1139O3930A</small>	There is a misfed sheet of paper inside the copier or an option (including the AF-3).	Check the Monitor Display for the location of the misfeed and clear the misfed sheet of paper as instructed. ➡ p. 86

1. Quick Reference for Indicator Lights

Indicator	Copier State	Action
I.U. Service Life Indicator  <small>1139O3290A</small>	It is now time to replace the Imaging Unit. (When this Indicator lights up, no new copy cycle can be initiated.)	Replace the Imaging Unit by following the steps given in "I.U. Service Life Indicator" in this chapter. ⇨ p. 76
Call-Tech.-Rep. Indicator  <small>1139O3940A</small>	The copier has developed a technical malfunction.	If the Call-Tech.-Rep. Indicator remains lit even after you have reset it, call your Technical Representative. ⇨ p. 93

2. Detailed Instructions for Indicator Lights

Add Toner Indicator

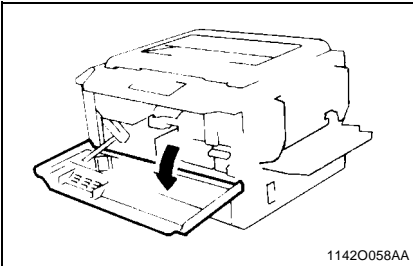


1142O021AB

The Add Toner Indicator lights up when toner in the Toner Bottle is running out.

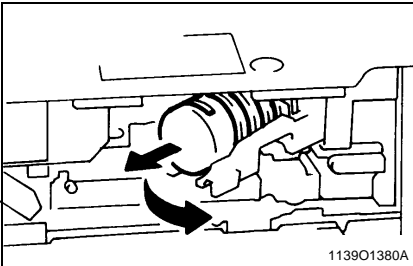
Once the Indicator lights up, replace the Toner Bottle with a new one as soon as possible by following the procedure given below.

Replacing the Toner Bottle



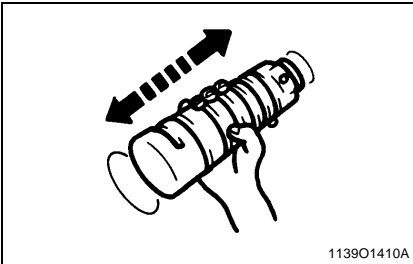
1142O058AA

- 1 Swing down the Front Door.



1139O1380A

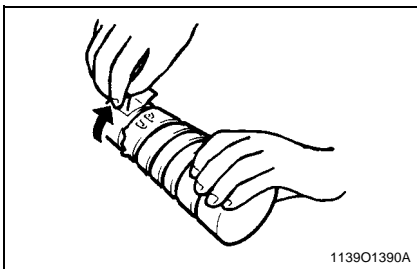
- 2 Swing open the Toner Bottle Holder and pull out the Toner Bottle.



1139O1410A

- 3 Shake a new Toner Bottle well.

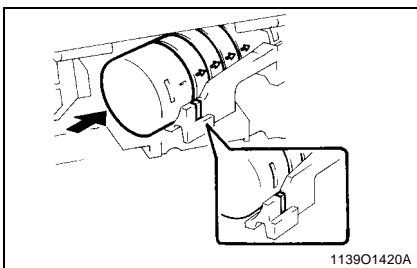
2. Detailed Instructions for Indicator Lights



- 4 With the Seal on the Toner Bottle facing up, slowly peel off the Seal as illustrated.

NOTE

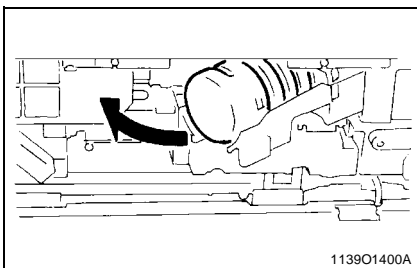
Be careful, some toner may puff out from the bottle.



- 5 Ensuring that the arrow (⇌) on the Toner Bottle is facing toward you, insert the Bottle into position.

NOTE

Insert the Bottle all the way into the copier until the □ marking on the Bottle is aligned with the □ marking on the Toner Bottle Holder.



- 6 Swing the Toner Bottle Holder closed and close the Front Door.

NOTES

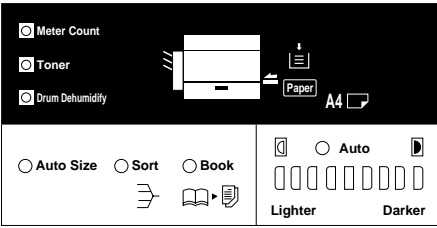
- Try to replace the Toner Bottle with a new one as soon as possible once the Add Toner Indicator lights up. Continuing to make copies without changing the Toner Bottle will result in increasingly lighter images.
- Use ONLY MT Toner 101B for the EP1050 copier. Using any other toner could result in image trouble.

Auxiliary Toner Replenishing Mode

Use the Auxiliary Toner Replenishing Mode if the image is light immediately after replacing the Toner Bottle with a new one. ⇨ p. 54

2. Detailed Instructions for Indicator Lights

Add Paper Indicator



When the Drawer or the Multi Bypass Table has run out of paper, the Add Paper Indicator lights up and the Start Key turns orange. At this time, you cannot start a new copy cycle.

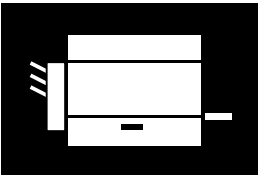
Use the following procedure to load paper into the Drawer or the Multi Bypass Table.

1142O160DA

Adding Paper (Drawer)

Monitor Display

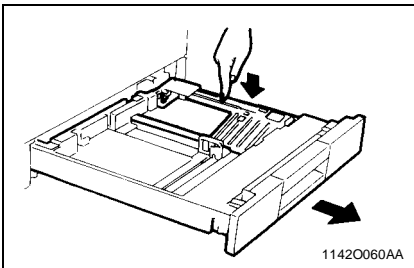
Add Paper Indicator



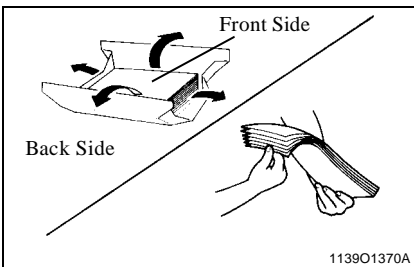
1139O3910A

1142O017AA

The indications on the left show that the Drawer has run out of paper.

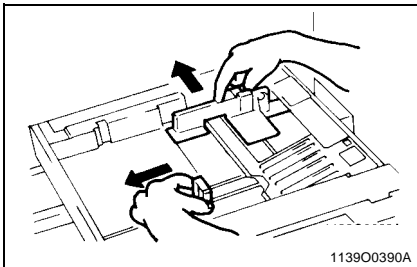


- 1 Slide out the Drawer and press down the Paper Lifting Plate until it is locked into position.

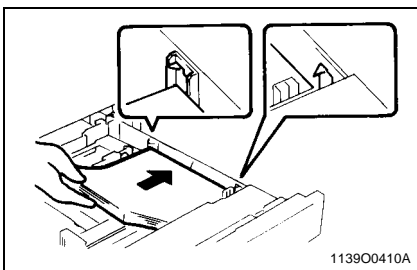


- 2 Unwrap the package of the copy paper and fan the paper stack thoroughly.

2. Detailed Instructions for Indicator Lights

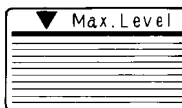


- 3** Slide out the Edge Guide and Trailing Edge Stop in the direction of the arrows.

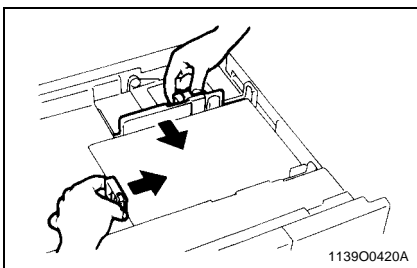


- 4** Load the paper stack into the Drawer so that its front side (the side facing up when the package was unwrapped) faces down. Make sure that the paper stack rests under the two catches of the Drawer.

NOTE



The paper should be loaded no higher than the ▼ (Max. Level Indicator) on the Edge Guide.

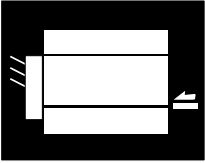


- 5** Slide the Edge Guide and Trailing Edge Stop tightly up against the paper. Slide the Drawer back in.

2. Detailed Instructions for Indicator Lights

Adding Paper (Multi Bypass Table)

Monitor Display



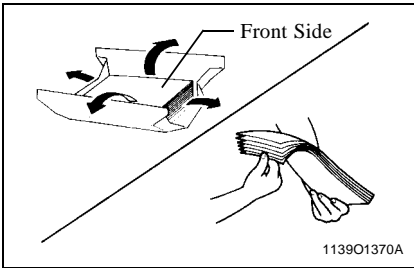
1142O061AA

Add Paper Indicator



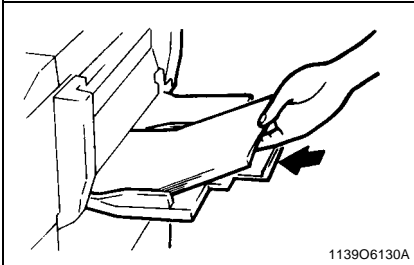
1139O3910A

The indications on the left show that the Multi Bypass Table has run out of paper.



1139O1370A

- 1 Unwrap the package of the copy paper and fan the paper stack thoroughly.



1139O6130A

- 2 Load the paper stack onto the Table so that its front side (the side facing up when the package was unwrapped) faces up and insert it into the copier as far as it will go.

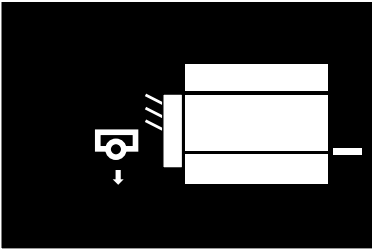
NOTE

When using once-copied paper, load the paper stack so that its blank side faces up.

2. Detailed Instructions for Indicator Lights

2. Detailed Instructions for Indicator Lights

I.U. Service Life Indicator

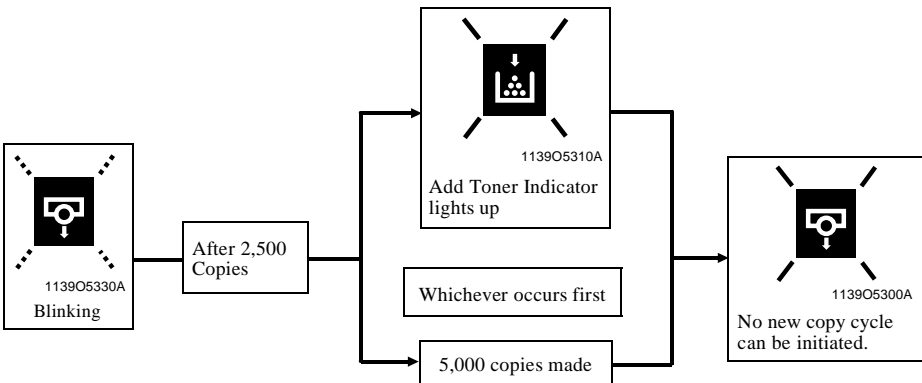


When time is about to come when the Imaging Unit needs replacement, the I.U. Service Life Indicator starts blinking to prompt you to replace it with a new one.

Replace the Imaging Unit by following the procedure given below.

1142O174CA

When 2,500 more copies are made with Add Toner Indicator lighting up, or 7,500 more copies are made, after the I.U. Service Life Indicator has started blinking, the I.U. Service Life Indicator lights up steadily and the copier inhibits the initiation of a new copy cycle. See the diagram below.



Useful Tip

Replace the Imaging Unit as soon as possible once the I.U. Service Life Indicator has started blinking.

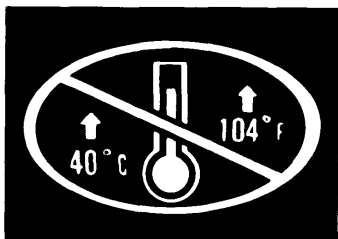
2. Detailed Instructions for Indicator Lights

Precautions for Handling



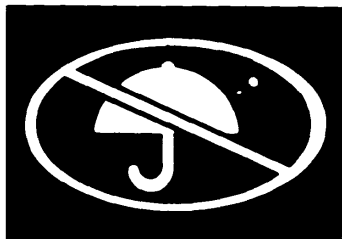
1139O6032A

- Do not leave the I. U. in a bright place.



1139O6042A

- Do not store the I. U. in a hot place of 40°C (104°F) or more.



1139O6052A

- Do not store the I. U. in a humid place or subject to water splash.

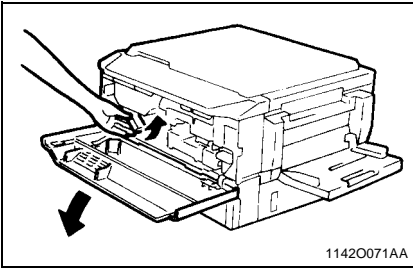


1139O6062A

- Do not store the I. U. upside down or tilted.
- Do not subject the I. U. to vibration.

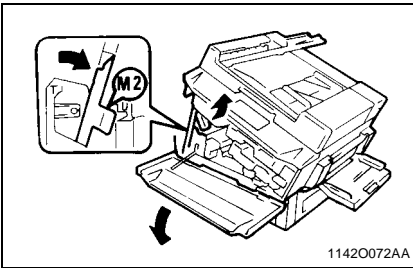
2. Detailed Instructions for Indicator Lights

Removing the I. U. from copier



1142O071AA

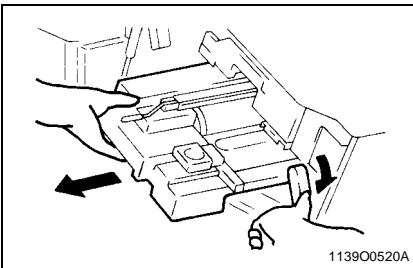
- 1** Swing down the Front Door. Turn the Lock Release Lever counterclockwise to swing up the Upper Half of the copier.



1142O072AA

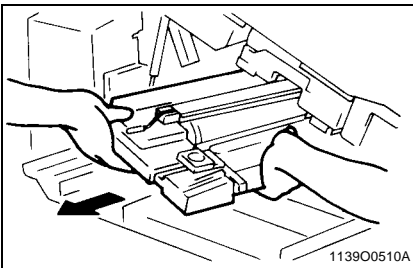
- Or
<If the copier is equipped with an Automatic Document Feeder>

Unlock and swing up the Upper Half of the copier. Then, lock the Stopper



1139O0520A

- 2** Turn the I. U. Lock Release Lever and, while holding it down, pull the I. U. halfway out from the copier.

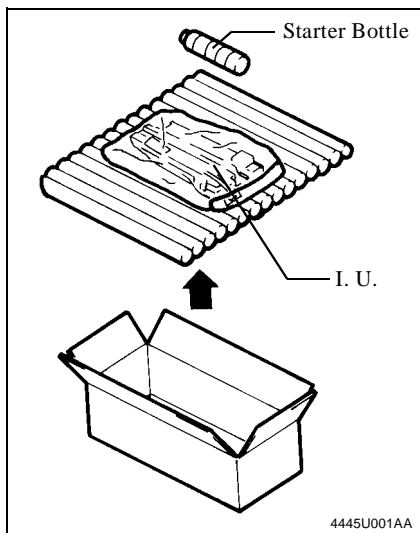


1139O0510A

- 3** Firmly grasp the I. U. with both hands and pull it all the way out of the copier.

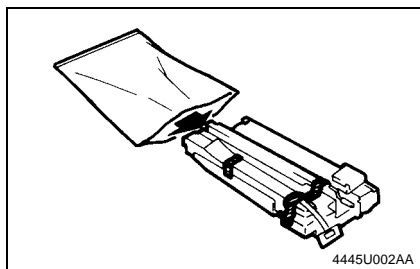
2. Detailed Instructions for Indicator Lights

Unpacking the I. U.

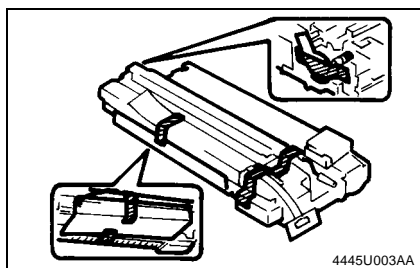


- 1 Peel off the piece of tape and open the Carton Box.
- 2 Take the Starter Bottle out from the Carton Box.
- 3 Take the I. U. with its bag out of the Carton Box.

Setting up the I. U.

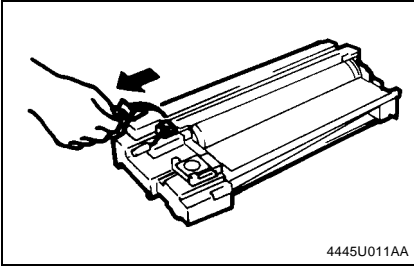


- 1 Take the I. U. out of the bag.

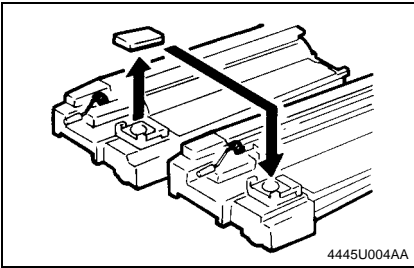


- 2 Peel off the three pieces of tape and packing materials.

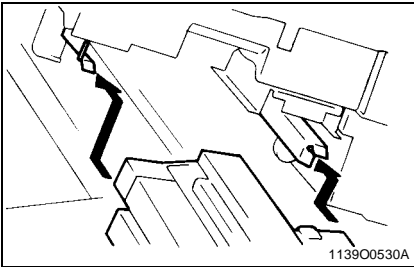
2. Detailed Instructions for Indicator Lights



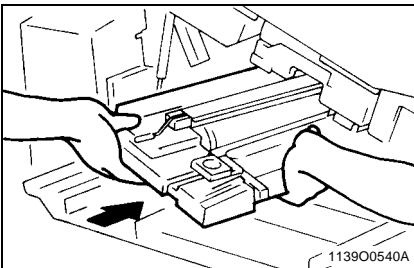
- 3 Carefully pull the polyester tape from the I. U..



- 4 Remove the Cap from the I. U. and re-fit it to the used I. U. as shown in the illustration.

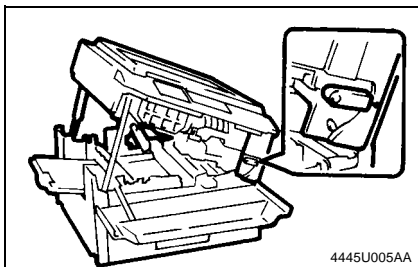


- 5 Align the I. U. with the Rails in the copier.



- 6 Slide the I. U. all the way into the copier.

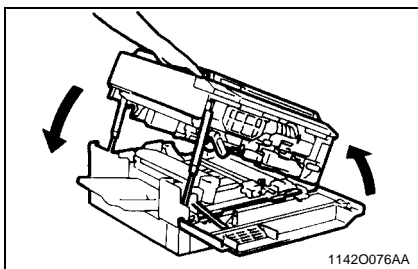
2. Detailed Instructions for Indicator Lights



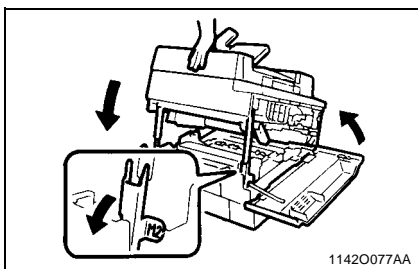
- 7** Be sure to push the I. U. into the locked position until a click is heard. Then, check to see the position of Lock Release Lever, as shown in the illustration.

NOTE

An improperly installed I. U. could be a cause of copier malfunction.



- 8** Lower the Upper Half of the copier and push it into the locked position by pushing down on the portion marked with "Push Down Here Only".

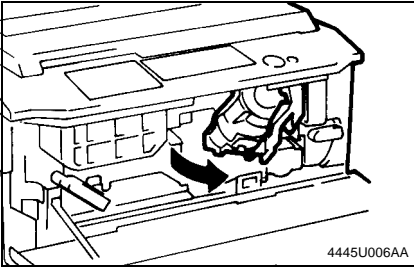


Or
<If the copier is equipped with an Automatic Document Feeder>

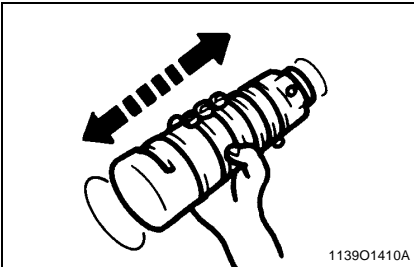
Unlock the Stopper (M2) . Gently swing down and lock the Upper Half of the copier. Then, close the Front Door.

2. Detailed Instructions for Indicator Lights

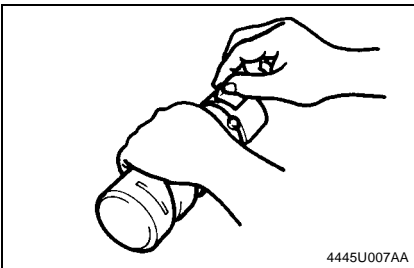
Charging the Copier with Starter and Toner



- 1 Swing out the Bottle Holder.



- 2 Hold the Starter Bottle so that its tab is on the upper side, shake it well.

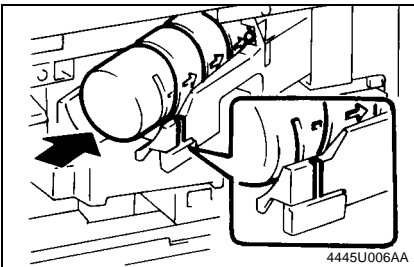


- 3 Peel off the tape from the Starter Bottle.

- 4 Align the ⇨ markings on the Starter Bottle with the upper side of the Bottle Holder and slide the Bottle into position.

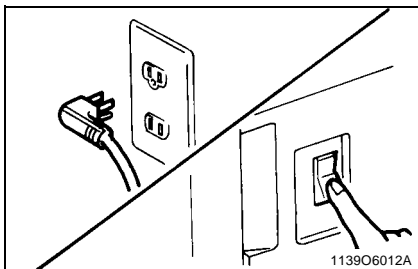
NOTE

Insert the Bottle all the way into the copier until the □ marking on the Bottle is aligned with the □ marking on the Bottle Holder.



Then, swing in the Bottle Holder until it locks into position.

2. Detailed Instructions for Indicator Lights



5

Close the Front Door.

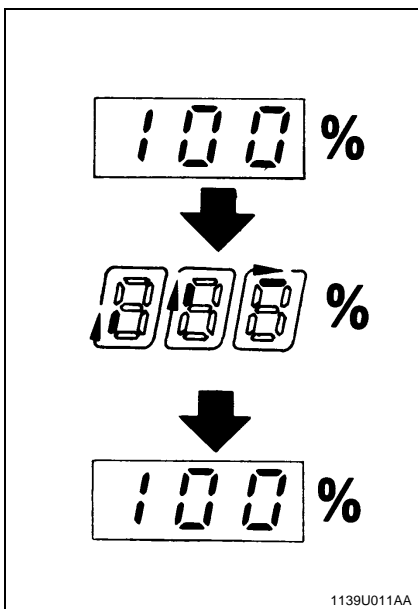
6

Plug the Power Cord into the Wall Outlet.

7

Turn ON the Power Switch.

This will cause the wait indicator to be shown on the control panel.



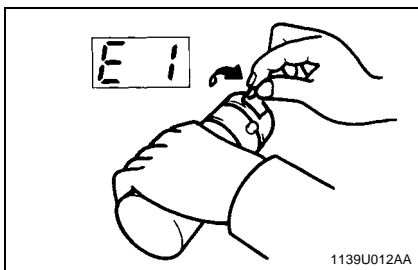
8

The copier automatically start the charging cycle for approximately 5 minutes.

During this cycles, do not open the Front Door.

During this cycle, six segments of the ones digit LED on the Magnification Ratio Indicator forming a "0" light up and go out one after another, indicating that the copier is being charged with starter.

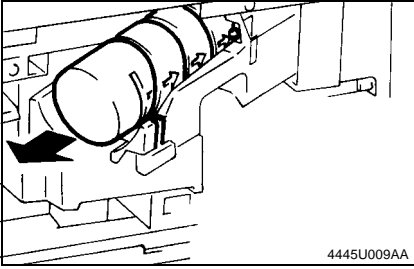
When the copier has been completely charged with Starter, the indication on the Magnification Ratio Indicator changes to "100" and the cycle stops.



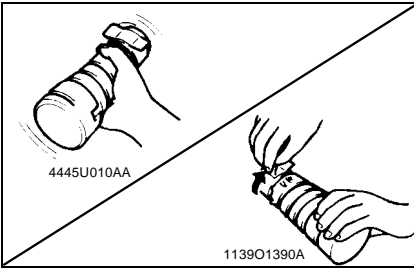
If "E1" or "E2" is indicated on the Magnification Ratio Indicator, the tape has not been removed from the Starter Bottle. Swing down the Front Door and remove the tape and perform the starter charging procedure again.

If "E1" or "E2" is indicated again call your Technical Representative.

2. Detailed Instructions for Indicator Lights

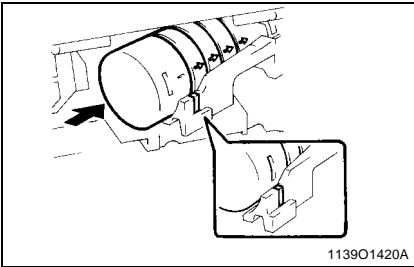



- 9 Swing down the Front Door, swing out the Bottle Holder and remove the Starter Bottle.





- 10 Hold the Toner Bottle so that its tab is on the upper side, shake it well and peel off the tape.

Once the tape has been removed, hold the Bottle so that its Toner Port faces up.

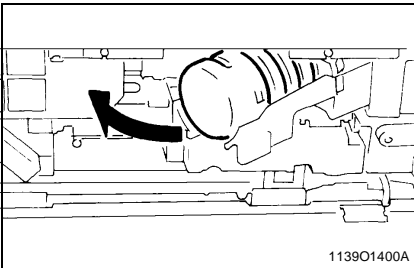


- 11 Align the  markings on the Toner Bottle with the upper side of the Bottle Holder and slide the Bottle into position.

NOTE

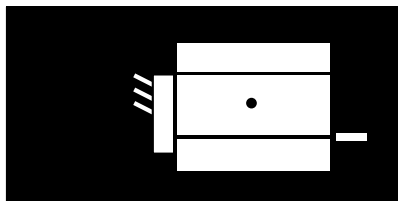
Insert the Bottle all the way into the copier until the  marking on the Bottle is aligned with the  marking on the Bottle Holder.

Then, swing in the Bottle Holder until it locks into position and close the Front Door.



2. Detailed Instructions for Indicator Lights

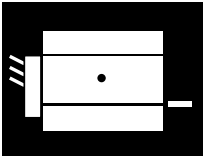
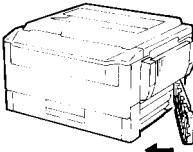
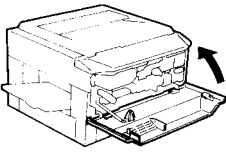
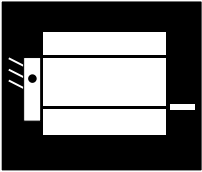
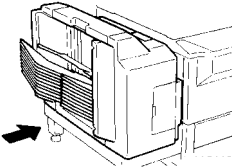
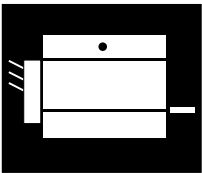
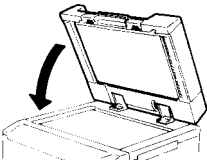
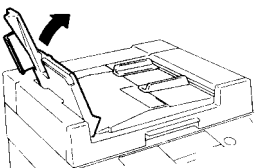
Closure Failure Indicator



1142O018AA

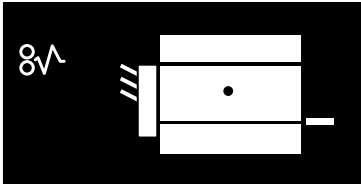
The Closure Failure Indicator lights up if a copier door is left open, or an option is not attached properly. At this time, the Monitor Display shows the location of the closure failure. The Start Key turns orange, and you can no longer start a new copy cycle.

Correct the closure failure by following the procedure given below.

Monitor Display	Check Locations
 <p data-bbox="269 810 356 826">1142O018AA</p>	<p data-bbox="370 603 880 627">Check that the Right Door or Front Door is closed.</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="412 647 605 799">  <p data-bbox="566 815 652 831">1142O064AA</p> </div> <div data-bbox="710 647 936 799">  <p data-bbox="863 810 949 826">1142O065AA</p> </div> </div>
 <p data-bbox="273 1051 359 1067">1142O063AA</p>	<p data-bbox="370 845 781 869">Check that the Sorter S-104 is in position</p> <div style="text-align: center;">  <p data-bbox="835 1051 921 1067">1139O0650A</p> </div>
 <p data-bbox="273 1342 359 1358">1142O062AA</p>	<ul style="list-style-type: none"> <li data-bbox="376 1090 650 1169">• Check that the Automatic Document Feeder is lowered. <li data-bbox="678 1090 1001 1201">• Check that the Document Exit Tray of the Automatic Document Feeder is in position. <div style="display: flex; justify-content: space-around;"> <div data-bbox="421 1241 628 1401">  <p data-bbox="566 1417 652 1433">1139O0600A</p> </div> <div data-bbox="703 1241 958 1409">  <p data-bbox="880 1417 966 1433">1139O0560A</p> </div> </div>

2. Detailed Instructions for Indicator Lights

Misfeed Indicator

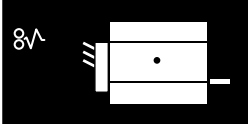
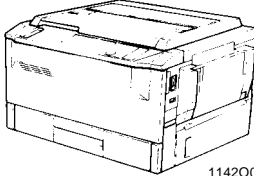
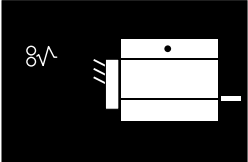
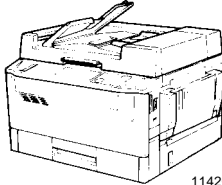
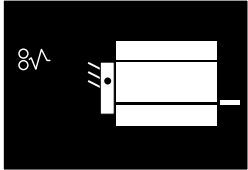
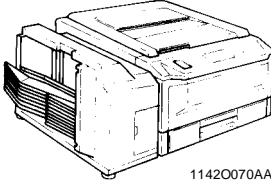


1142O019AB

If a paper misfeed occurs during a copy cycle, that copy cycle stops. At this time, the Misfeed Indicator lights up and the Monitor Display shows the location. In addition, the Start Key turns orange and you cannot start a new copy cycle.

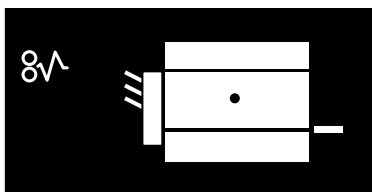
Misfeed Indicator and Monitor Display

Check the Monitor Display for the location of the misfeed, and clear the misfed sheet of paper according to the procedure given for each location.

Monitor Display	Misfeed Location
 <p data-bbox="350 911 434 927">1142O019AB</p>	<p data-bbox="546 711 844 738">Misfeed in the copier ↗ p. 87</p>  <p data-bbox="841 927 927 943">1142O066AA</p>
 <p data-bbox="348 1181 430 1197">1142O068AB</p>	<p data-bbox="546 954 913 1010">Misfeed in the Automatic Document Feeder ↗ p. 90</p>  <p data-bbox="848 1192 934 1208">1142O067AA</p>
 <p data-bbox="344 1433 426 1449">1142O069AB</p>	<p data-bbox="546 1225 844 1252">Misfeed in the Sorter ↗ p. 92</p>  <p data-bbox="807 1430 892 1445">1142O070AA</p>


2. Detailed Instructions for Indicator Lights

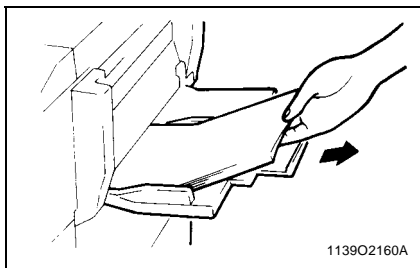
Misfeed Clearing Procedure: Copier



1142O019AB

NOTE

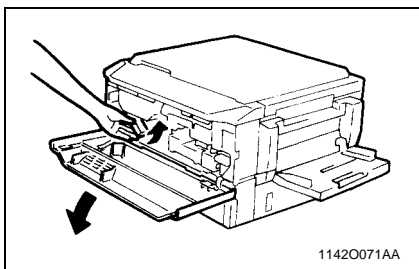
Use care not to touch the areas marked with , "High Voltage", and "Caution/Hot" with bare hands.



1139O2160A

<When the copier is equipped with a Multi Bypass Table>

Unload the paper stack from the Multi Bypass Table.



1142O071AA

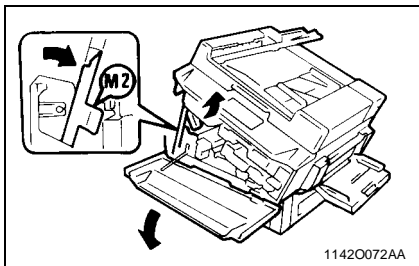
- 1 Swing down the Front Door and turn the Lock Release Lever counterclockwise to unlock and swing up the Upper Half of the copier.

Or

<If the copier is equipped with an Automatic Document Feeder>

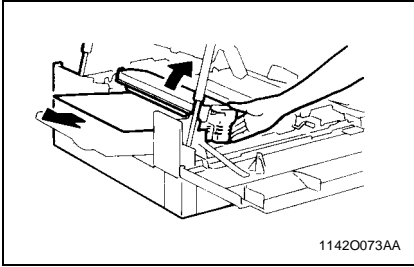
Unlock and swing up the Upper Half of the copier. Then, lock the Stopper



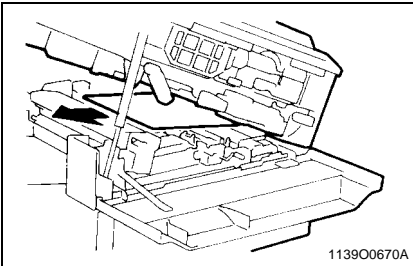


1142O072AA

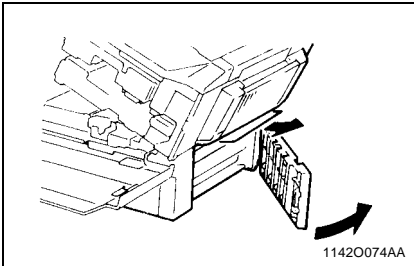
2. Detailed Instructions for Indicator Lights



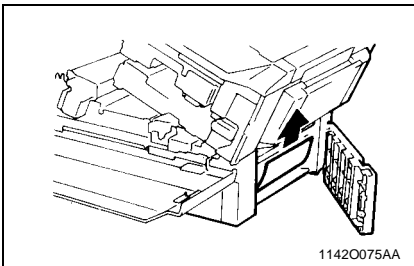
- 2 Holding up the Fusing Unit, pull out the sheet of paper .



- 3 Remove any sheet of paper from the Transport Section.



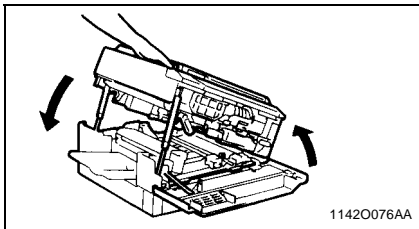
- 4 Open the Right Door.
Then pull out the sheet of paper from the Manual Bypass Port.



- 5 Pull out the sheet of paper from the Paper Take-Up Section.

- 6 Close the Right Door.

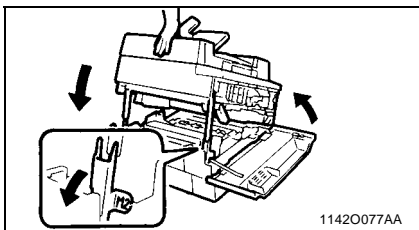
2. Detailed Instructions for Indicator Lights



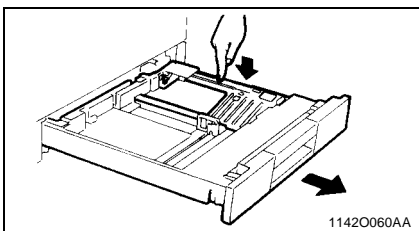
- 7 Gently swing down and lock the Upper Half of the copier. Then, close the Front Door.

Or

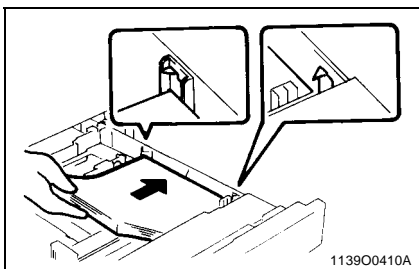
<If the copier is equipped with an Automatic Document Feeder>



- Unlock the Stopper (M2). Gently swing down and lock the Upper Half of the copier. Then, close the Front Door.



- 8 Slide out the Drawer and unload the paper from the Drawer. Next, push down the Paper Lifting Plate until it is locked into position.



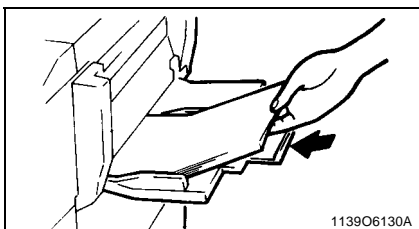
- 9 Fan the paper and reload it.

NOTE

Make sure that the paper stack rests under the two catches of the Drawer.

- 10 Slide the Drawer back in.

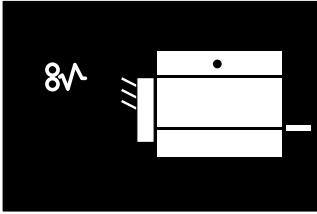
<When the copier is equipped with a Multi Bypass Table>



Fan the paper stack thoroughly and place it back on the Table.

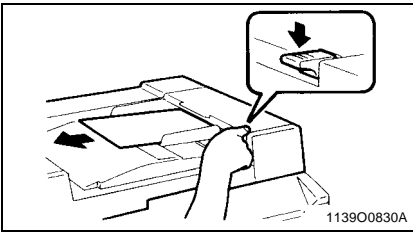
2. Detailed Instructions for Indicator Lights

Misfeed Clearing Procedure: Automatic Document Feeder



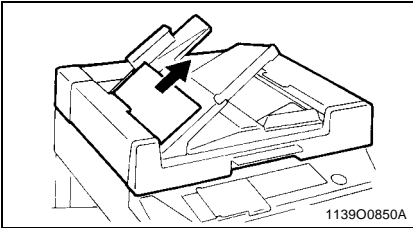
1142O068AC

There is a misfed original in the Automatic Document Feeder.



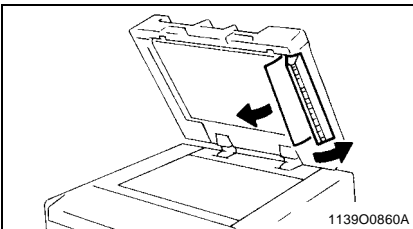
1139O0830A

- 1 Holding down the Document Release Lever, gently pull out the original.



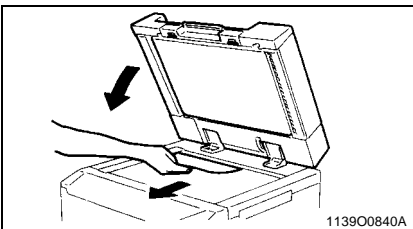
1139O0850A

- 2 Carefully pull out the original from the Exit Unit.



1139O0860A

- 3 Raise the Automatic Document Feeder.

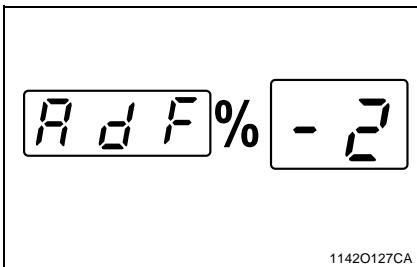


1139O0840A

- 4 Opening the Document Feed Unit Guide Plate, gently pull out the original from the Document Feed Unit.

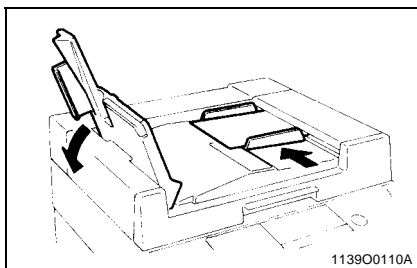
- 5 Remove the original from the Original Glass, and lower the Automatic Document Feeder.

2. Detailed Instructions for Indicator Lights

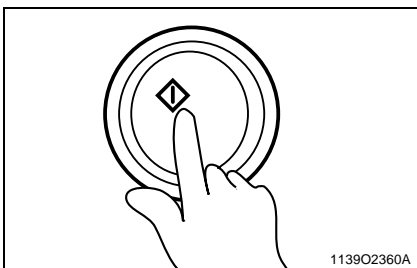


6 Check the number shown on the Multi-Copy Display.

Example: -2 (two sheets of original)



7 Reload the corresponding number of originals shown on the Display back onto the Document Feed Tray.

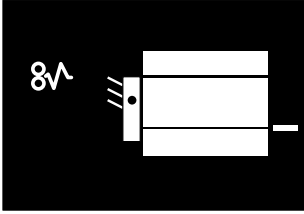


8 Press the Start Key.

This completes the procedure to clear a sheet of paper misfed in the Automatic Document Feeder.

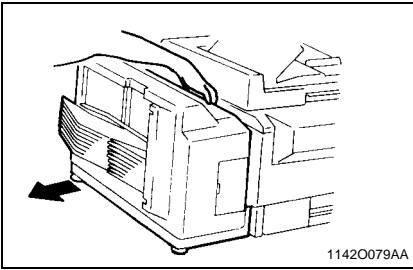
2. Detailed Instructions for Indicator Lights

Misfeed Clearing Procedure: Sorter



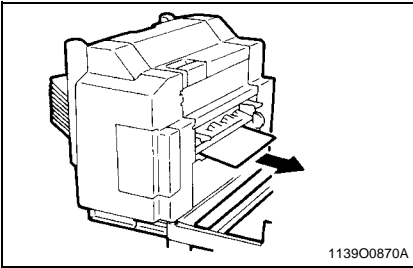
1142O069AC

There is a misfed sheet of paper in the 10-Bin Sorter.



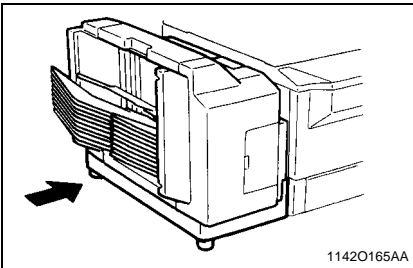
1142O079AA

- 1 Hold the Lock Release Lever of the Sorter and, at the same time, slide the Sorter away from the copier.



1139O0870A

- 2 Pull out the copy from the Transport Section.

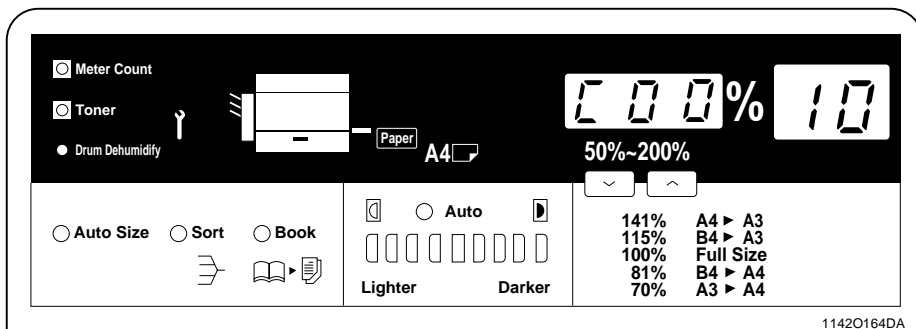


1142O165AA

- 3 Slide the Sorter back to the copier.

2. Detailed Instructions for Indicator Lights

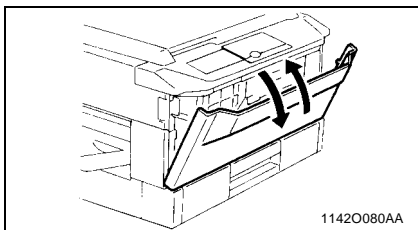
Call-Tech.-Rep. Indicator



When a malfunction occurs in the copier, the Call-Tech.-Rep. Indicator lights up and the corresponding malfunction code appears across the Zoom Ratio Indicator and Multi-Copy Display. At the same time, the Start Key turns to orange and you cannot start a new copy cycle.

If this happens, try to clear the Call-Tech.-Rep. Indicator by following the instructions below. If the Call-Tech.-Rep. Indicator lights up again, call your Technical Representative immediately.

Resetting the Call-Tech.-Rep. Indicator



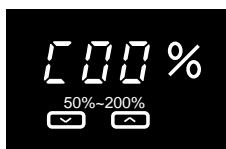
Swing down the Front Door, then close it. This resets the Call-Tech.-Rep. Indicator.

- ◆ If the Call-Tech.-Rep. Indicator lights up again, call your Technical Representative immediately.

NOTE

When calling your Technical Representative, give him or her the malfunction code shown across the Zoom Ratio Indicator and Multi-Copy Display.

<Example>



This is the malfunction code C0010.

2. Detailed Instructions for Indicator Lights

Chapter 6

Troubleshooting

This Chapter gives you instructions on how to troubleshoot copier malfunctions.

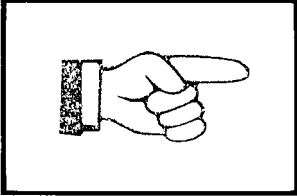

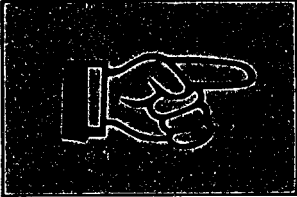
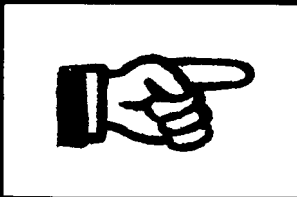
1. When this Type of Copy is Produced

- The Image is too light 96
- The Image is too dark 96
- The Copy is blurry 96
- The Copy has lines 98
- The Copy has dark specks or spots 98
- The Edge of the Copy is dirty 98
- The Image on the Copy is not aligned properly 98

2. The Copier is not functioning as designed

- None of the Control Panel Indicators light up 100
- Pressing the Start Key does not start the copy cycle 100
- The Copier is not activated when the Power Switch is turned ON 102

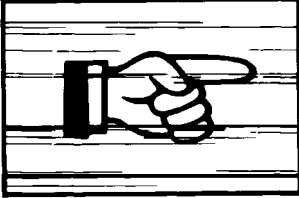
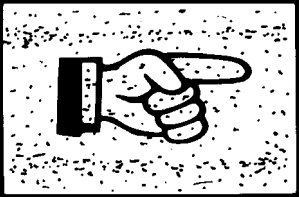
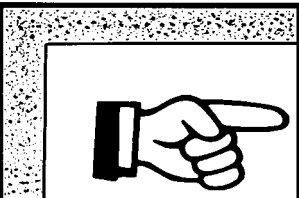
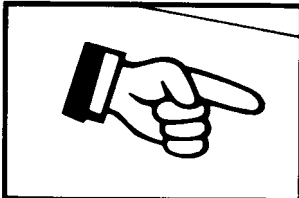
1. When this Type of Copy is Produced

Symptom	Possible Cause
<p>The Image is too light.</p>  <p>1074O108</p>	<p>The exposure level for the Auto Exposure Mode is set at one of the "Light" levels.</p> <hr/> <p>The manual exposure level is set on the lighter side.</p> <p>You have been making copies from a photo or an original with a large dark area.</p> <hr/> <p>The Toner Bottle has just been replaced.</p> <hr/> <p>The Add Toner Indicator on the Monitor Display is lit up.</p>  <p>Add Toner Indicator 1139O3270A</p>
<p>The Image is too dark.</p>  <p>1074O109</p>	<p>The exposure level for the Auto Exposure Mode is set at one of the "Dark" levels.</p> <hr/> <p>The manual exposure level is set on the darker side.</p> <p>The entire surface of the Original Glass is dirty.</p> <p>The original is not held tightly on the Original Glass.</p>
<p>The Copy is blurry.</p>  <p>1074O110</p>	<p>The paper is damp.</p>

1. When this Type of Copy is Produced

Action
<p>Change the setting of the User's Choice Mode U-13 (Default Auto Exposure Level). ↳ p. 58</p> <p>Cancel the Auto Exposure Mode and select the Manual Exposure Mode to adjust the exposure level and obtain a darker image. ↳ p. 41</p>
<p>Press the Exposure Control Key (Darker) as necessary to obtain a darker image. ↳ p. 41</p>
<p>The copier needs more toner. Press the Auxiliary Toner Replenishing key as many times as required to obtain the desired image density. ↳ p. 54</p>
<p>The copier needs more toner. Press the Auxiliary Toner Replenishing key as many times as required to obtain the desired image density. ↳ p. 54</p>
<p>Replace the Toner Bottle with a new one. ↳ p. 70</p>
<p>Replace the paper. ↳ p. 72</p>
<p>Change the setting of the User's Choice Mode U-13 (Default Auto Exposure Level). ↳ p. 58</p> <p>Cancel the Auto Exposure Mode and select the Manual Exposure Mode to adjust the exposure level and obtain a lighter image. ↳ p. 41</p>
<p>Press the Exposure Control Key (Lighter) as necessary to obtain a lighter image. ↳ p. 41</p>
<p>Wipe the Original Glass clean with a soft dry cloth. ↳ p. 112</p>
<p>Place the original in position so that it is held tightly against the Original Glass. ↳ p. 28</p>
<p>Replace the paper. ↳ p. 72</p>

1. When this Type of Copy is Produced



Symptom	Possible Cause
<p>The Copy has lines.</p>  <p>1139O1670A</p>	<p>The Corona Units are dirty.</p>
<p>The Copy has dark specks or spots.</p>  <p>1139O1660A</p>	<p>The Original Glass is dirty.</p> <p>The Original Pad or Document Feed Belt is dirty.</p> <p>The original is very thin or highly transparent.</p> <p>The original is two-sided.</p>
<p>The Edge of the Copy is dirty.</p>  <p>1139O1690A</p>	<p>The Original Pad or Document Feed Belt is dirty.</p> <p>A paper size larger than the original is loaded in the Drawer. (Zoom Ratio is set at full size 100%)</p> <p>The original is not placed in the correct direction. (Zoom Ratio is set at full size 100%)</p> <p>The reduction ratio selected is not in accord with the copy paper size. (When doing manual reduction copying.)</p>
<p>The Image on the Copy is not aligned properly.</p>  <p>1139O1680A</p>	<p>The original is not placed in the correct position.</p> <p>The originals may not be suitable for use in the AF-3. (When AF-3 is being used.)</p> <p>The Original Glass is dirty. (When AF-3 is being used.)</p>

1. When this Type of Copy is Produced

Action
Using the Corona Unit Cleaning Levers, clean the Corona Units. ↪ p. 114
Wipe the Original Glass clean with a soft dry cloth. ↪ p. 112
Wipe the Original Pad or Document Transport Belt clean with a soft cloth dampened with neutral detergent. ↪ pp. 112, 115
Place a blank sheet of paper over the original. ↪ p. 28
The information on the back side of a two-sided, thin original may be slightly reproduced on the copy. Set the copier into the Manual Exposure Mode and, using the Exposure Control Key (Lighter), make the exposure level lighter. ↪ p. 41
Wipe the Original Pad or Document Transport Belt clean with a soft cloth dampened with neutral detergent. ↪ pp. 112, 115
Load the same size copy paper as the original into the Drawer. ↪ p. 72 Load the same size copy paper onto the Manual Bypass Table or the Multi Bypass Table. ↪ p. 49
Reload the paper in the same direction as the original. ↪ p. 28
Select the zoom ratio according to the copy paper size. ↪ p. 35 Or, use the Auto Size Mode to reduce the copy to the appropriate size. ↪ p. 37
Place the original correctly on the Original Glass against the Original Width Scale. ↪ p. 28 Or, load it onto the AF-3 correctly along the Document Guide Plates. ↪ p. 31
Raise the AF-3, and place the originals on the Original Glass, one at a time, instead of using the AF-3. ↪ p. 32
Wipe the Original Glass clean with a soft dry cloth. ↪ p. 112

If these procedures do not correct the problem, contact your Technical Representative

2. The Copier is not Functioning as Designed

Symptom	Check for:	
None of the Control Panel Indicators light up.	Is the Start Key lit up green?	
Pressing the Start Key does not start the copy cycle.	Is the Start Key blinking Orange?	
	Is any of the following Indicators lit up? 	
	Is the Indicator on the Multi-Copy Display blinking?  1139O4990A	

2. The Copier is not Functioning as Designed

Action
The copier is in the Energy Saver Mode. Press any Key on the Control Panel to cancel the Energy Saver Mode. ↪ p. 21
The copier is now warming up. Please wait. ↪ p. 19
Take the necessary steps for each Indicator. ↪ p. 68
The conditions for the copy mode which has been set are not met. The number of copy sets to make in the Sort Mode exceeds 10. Press the Clear key and reset the number of copy sets up to 10.

2. The Copier is not Functioning as Designed

Symptom	Check for:	Action
The Copier is not activated when the Power Switch is turned ON.	Is the power cord plugged into the power outlet?	Plug the power cord into the power outlet.
	Is the room circuit breaker open?	Close the room circuit breaker.

If these procedures do not correct the problem, contact your Technical Representative.

Chapter 7

Specifications

This Chapter gives complete specifications of the copier system and options.

1. Copier EP1050 104
2. Automatic Document Feeder AF-3 106
3. 10 Bin Sorter S-104 107
4. Multi Bypass Table MB-1 108

1. Copier

Name	MINOLTA EP1050
Type	Desk Top Copier
Platen Type	Stationary
Photoconductor	OPC
Copying System	Electrostatic Dry Powdered Image Transfer to Plain Paper
Developing System	Micro-Toning System
Fusing System	Lamp-Heated Roller
Types of Original	Sheets, Books, and other three-dimensional objects Maximum Original Size: A3 Lengthwise Maximum Original Weight: 3 kg
Kinds of Paper	Plain paper, Recycled paper: Weighing 60 to 90 g/m ² Special paper (Manual Bypass Table only) <ul style="list-style-type: none"> • thick paper weighing: 90 to 157 g/m² • transparencies • translucent paper
Copy Paper Size	Drawer : A3L, B4L, A4L, A4C, A5L, FLSL Manual Feed Table Crosswise : 100 to 297 mm Lengthwise: 140 to 432 mm Lost image : Isided copy in the Full size mode Leading edge: 3 mm Trailing edge: 3 mm Front edge: 1 mm
Paper Feeding System	Automatic feeding from a drawer and manual feeding by means of Manual Bypass Table or Multi Bypass Table (option) Drawer: 250 sheets of 80 g/m ² paper
Warming-up Time	60 seconds or less at Ambient temperature of 20°C/68°F (30 seconds or less when the Energy Saver Mode is used)
First copy Time	A4C = 7.5 seconds (in Full Size Mode using First Drawer)
Copying Speed (approx. copies/minute)	Drawer Full size (100%) B5C → B5C 15 A4C → A4C 15 B4L → B4L 12 A3L → A3L 11

1. Copier

Zoom Ratios	Fixed ratios Full size: 1:1±0.5% Reduction Ratios: 50%, 70%, 81% Enlargement Ratios: 115%, 141%, 200% Zoom ratios: From 50% to 200% in 1% increments
Multiple Copy	Up to 99 copies (Count-Down system)
Exposure Control	Auto and Manual
Power Requirements	AC 110V, 115V, 120V, 127V; 14.5A 200V/220V, 220V-240V; 8.8A 50/60Hz
Power Consumption	1.25 kW (Max.)
Dimensions	Width : 655 mm (Excluding Exit Tray) Depth : 609 mm Height : 401 mm (Including Original Cover)
Weight	52.5 kg (Excluding Copy Tray, Starter, Toner, Copy Paper)
Space Requirements	Width : 885 mm (Including Exit Tray, Manual Bypass Table) Depth : 609 mm

2. Automatic Document Feeder

Name	Automatic Document Feeder AF-3
Type	Take-up from bottom of stack and U-turn feeding to Glass, U-turn ejection
Installation	On top of copier, with two Hinges on the back
Document Feeding	Single Belt transport
Document Stop Reference	Left side
Document Feeding Registration	Rear edge
Document Feeding	Standard Mode Lightweight Original Mode
Kinds of Original	Plain paper
Original Weight	Standard Mode: 50 to 110 g/m ² Lightweight Original Mode: 40 to 110 g/m ²
Original Size	A3L, B4L, A4L, A4C, FLSL
Capacity of Document Feed Tray	A4L, A4C: 30 sheets (80 g/m ²) A3L, B4L: 15 sheets (80 g/m ²)
Document Loading	Face up, top edge in the rear
Copy productivity	100%
First copy in automatic document feeding	10.3 seconds or less
Power Source	DC24V supplied from copier
Power Consumption	48W or less
Dimensions	Width : 590 mm Depth : 515 mm Height : 95 mm (Excluding Exit Tray)
Weight	10.0 kg

3. 10 Bin Sorter

Name	10 Bin Sorter S-104
Type	10-Moving-Bin Sorter
Installation	Attached to copier
Registration	Front edge
No. of Bins	Sort Bins: 10
Modes	Non-Sort Mode, Sort Mode
Kinds of Paper	Non-Sort Mode: Plain paper, Recycled paper, Special paper (Thick paper, Transparencies, Translucent paper) Sort Mode: Plain paper, Recycled paper
Paper Size	Non-Sort Mode, Sort Mode: A3L, B4L, A4L, A4C, B5L, B5C, A5L
Capacity of Bins	Non-Sort Mode Plain paper, Recycled paper (weighing 60 to 80 g/m ²) 1st. bin : 50 sheets 2nd. bin to 10th bin : 225 sheets (25 sheets/bin) Total : 275 sheets of A3L, 80 g/m ² paper Special paper Transparencies: 10 sheets of 1st. bin (Max. paper size A4) Thick paper Translucent paper: 10 sheets of 1st. bin Sort Mode Plain paper, Recycled paper (weighing 60 to 80 g/m ²) 1st. bin to 10th bin: 250 sheets (25 sheets /bin)
Power Source	DC24V supplied from copier
Power Consumption	72W or less
Dimensions	Width : 400 mm Depth : 562 mm Height : 404 mm
Weight	15.8 kg

4. Multi Bypass Table

Name	Multi Bypass Table MB-1
Type	Universal Multi-Sheet Bypass Unit
Installation	Attached to copier
Registration	Front edge
Capacity of Table	Plain Paper (white): 50 sheets (80 g/m ²) or less Plain Paper (once-copied paper): 20 sheets or less Recycled Paper, Special Paper: 20 sheets or less
Kinds of Paper	Plain paper, Recycled paper: weighing 60 to 90 g/m ² Special paper <ul style="list-style-type: none"> • Thick paper: weighing 90 to 157 g/m² • Transparencies • Translucent paper
Paper Size	Standard: A3L, B4L, A4L, A4C, A5L, A5C, B5L, B5C 210 × 280 mm L, 280 × 210 mm C, 216 × 297 mm L, 216 × 320 mm L, 220 × 280 mm L, 220 × 330 mm L, 280 × 420 mm L, 210 × 330 mm L Non-standard: Crosswise : 297 to 100 mm Lengthwise: 432 to 140 mm
Power Source	DC24V supplied from copier
Weight	2.7 kg

Chapter 8

Miscellaneous

This Chapter explains about care of the copier and the various possible combinations of functions.

1. Care of the Copier
 - Daily Checks 110
 - Cleaning 112
2. Description of Copy Paper Size 116
3. Zoom Ratio Table (Original Size to Copy Paper Size) 117
4. Index 118

1. Care of the Copier

To keep your copier in good shape at all times, make the following daily checks and cleaning.

Daily Checks

Power Cord, Communications Cable, Ground Cable

Item	Action
Is the copier placed on its power cord or other Cables?	It could result in the copier or other electrical equipment malfunctioning. Move the copier immediately.
Is the copier placed on cables of other electrical equipment?	
Are the cord and cables free of damage or cracks?	Turn the copier OFF immediately, unplug the power cord, and call your Technical Representative.
Has the cord or cable jacket frayed to expose the wires?	

* Communications Cable: Cable connecting the copier with options

Original Glass

Item	Action
Is the Glass dirty?	Clean the Glass using the procedure given in "Cleaning." ☞ p. 112
Is the Glass scratched?	Call your Technical Representative.
Is the Glass cracked or chipped?	

1. Care of the Copier

Original Cover, Automatic Document Feeder

Item	Action
Is the Original Pad or Document Transport Belt dirty?	Clean the Pad or Belt using the procedure given in "Cleaning." ⇒ pp. 112, 115
Is the Original Pad or Document Transport Belt scratched?	Call your Technical Representative.

Copy Paper

Item	Action
Is the paper damp and wavy?	Replace the paper. ⇒ p. 72

Sound of Copier Operation

Item	Action
Is there any unusual noise heard while the copier is running?	Call your Technical Representative.

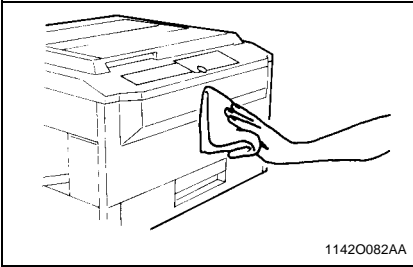
Copier Housing Temperature

Item	Action
Is the housing temperature inordinately high?	Call your Technical Representative.

1. Care of the Copier

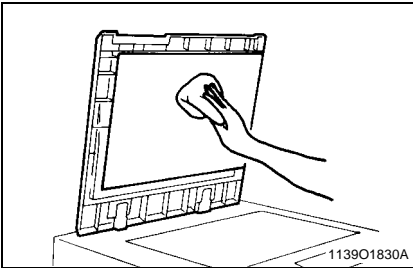
Cleaning

Housing Cover



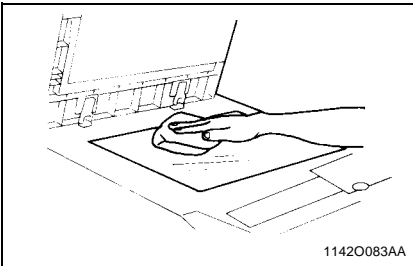
Wipe the surface of the Housing Cover clean with a soft cloth dampened with neutral home detergent.

Original Pad



- 1 Raise the Original Cover.
- 2 Wipe the surface of the Original Pad clean with a soft cloth dampened with neutral home detergent.

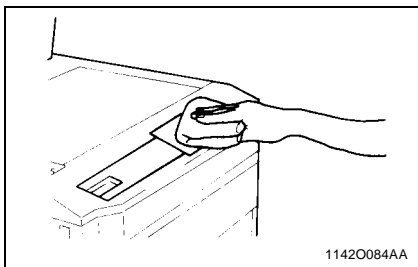
Original Glass



- 1 Raise the Original Cover.
- 2 Wipe the surface of the Original Glass clean with a soft, dry cloth.

1. Care of the Copier

Control Panel

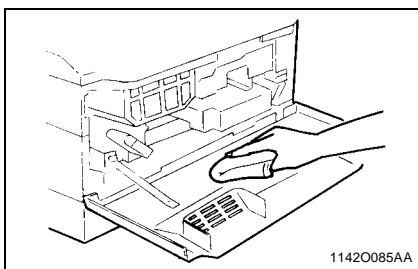


- 1 Turn the Power Switch OFF.
- 2 Wipe the surface of the control panel clean with a soft, dry cloth.

NOTE

NEVER use a glass cleaner or any other detergent to avoid damage to the control panel keys.

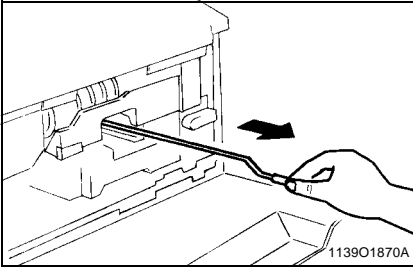
Front Door



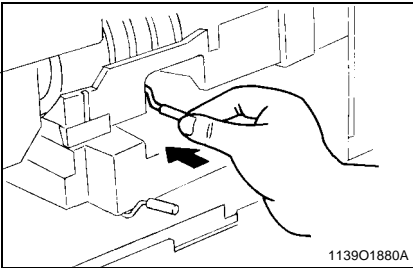
- 1 Swing down the Front Door.
- 2 Wipe the inside of the Front Door clean with a soft cloth.

1. Care of the Copier

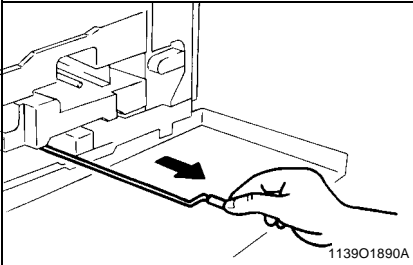
Corona Units



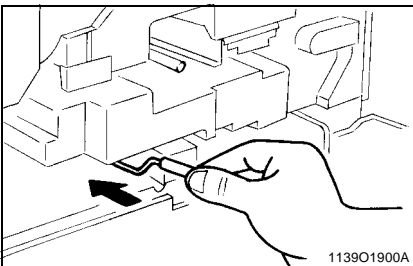
- 1 Swing down the Front Door.
- 2 Gently slide out the Corona Unit Cleaning Lever (Upper) as far as it will go.



- 3 Gently slide the Cleaning Lever back into the original position.



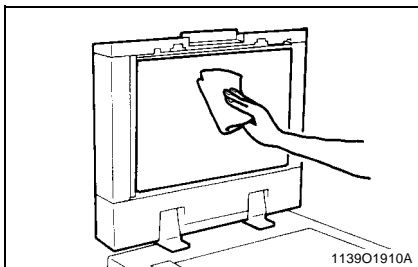
- 4 Gently slide out the Corona Unit Cleaning Lever (Lower) as far as it will go.



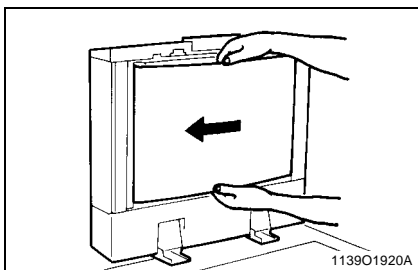
- 5 Gently slide the Cleaning Lever back into the original position.
- 6 Repeat steps 2 to 5 two to three times.

1. Care of the Copier

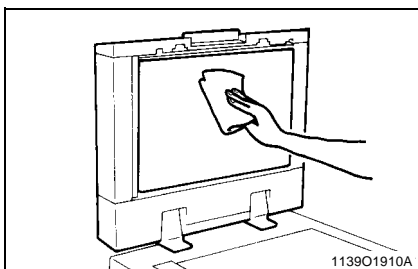
Document Transport Belt



- 1 Raise the AF-3.
- 2 Wipe the surface of the Document Transport Belt clean with a soft cloth dampened with neutral home detergent.



- 3 Hold the Document Transport Belt on both edges and pull it to the left to expose a fresh surface.



- 4 Wipe the fresh surface clean with a soft cloth dampened with neutral home detergent.

Repeat these steps until the entire surface of the Belt is wiped clean.

2. Description of Copy Paper Size

Name	Size (Metric)	Size (Inch)
A3	297 mm × 420 mm	11-3/4" × 16-1/2"
B4	257 mm × 364 mm	10" × 14-1/4"
A4	210 mm × 297 mm	8-1/4" × 11-3/4"
B5	182 mm × 257 mm	7-1/4" × 10"
A5	148 mm × 210 mm	5-3/4" × 8-1/4"
B6	128 mm × 182 mm	5" × 7-1/4"
A6	105 mm × 148 mm	4-1/4" × 5-3/4"
POST CARD	100 mm × 148 mm	4" × 5-3/4"

Name		Size (Inch)	Size (Metric)
LEDGER		11" × 17"	279 mm × 432 mm
11" × 14"		11" × 14"	279 mm × 356 mm
COMPUTER		10-1/8" × 14"	257 mm × 356 mm
10" × 14"		10" × 14"	254 mm × 356 mm
9-1/4" × 14"		9-1/4" × 14"	236 mm × 356 mm
LEGAL		8-1/2" × 14"	216 mm × 356 mm
FOOLSCAP	GOVERNMENT LEGAL	8-1/2" × 13"	216 mm × 330 mm
FOOLSCAP		8" × 13"	203 mm × 330 mm
FOOLSCAP		8-2/3" × 13"	220 mm × 330 mm
FOOLSCAP	FOLIO	8-1/4" × 13"	210 mm × 330 mm
8-1/4" × 11-3/4"		8-1/4" × 11-3/4"	210 mm × 301 mm
LETTER		8-1/2" × 11"	216 mm × 279 mm
GOVERNMENT LETTER		8" × 10-1/2"	203 mm × 267 mm
QUARTO		8" × 10"	203 mm × 254 mm
STATEMENT	INVOICE	5-1/2" × 8-1/2"	140 mm × 216 mm

3. Zoom Ratio Table (Original Size to Copy Paper Size)

Metric Areas			Inch Areas		
Original Size	Copy Paper Size	Zoom Ratio	Original Size	Copy Paper Size	Zoom Ratio
A3 297 × 420 mm 11-3/4" × 16-1/2"	A4	70%	11 × 17" 279.4 × 431.8 mm	11" × 14"	82%
	A5	50%		Legal	77%
	B4	86%		Foolscap	76%
	B5	61%		Letter	64%
A4 210 × 297 mm 8-1/4" × 11-3/4"	A5	70%	11 × 15" 279.4 × 381 mm	Invoice	50%
	A6	50%		11" × 14"	93%
	B5	86%		Legal	77%
	B6	61%		Foolscap	77%
	A3	141%		Letter	73%
A5 148 × 210 mm 5-3/4" × 8-1/4"	B4	122%	11 × 14" 279.4 × 355.6 mm	Invoice	50%
	A6	70%		Legal	77%
	B6	86%		Foolscap	77%
	A4	141%		Letter	77%
	A3	200%		Invoice	50%
	B4	173%		Legal	92%
A6 105 × 148 mm 4-1/4" × 5-3/4"	B5	122%	Legal 8-1/2 × 14" 215.9 × 355.6 mm	Letter	78%
	A4	200%		Invoice	60%
	A5	141%		11" × 17"	121%
	B5	173%		Letter	84%
B4 257 × 364 mm 10" × 14-1/4"	B6	122%	Foolscap 8-1/2 × 13" 215.9 × 330.2 mm	Invoice	64%
	A4	81%		11" × 17"	129%
	A5	57%		11" × 14"	107%
	B5	70%		Letter	64%
	B6	50%		8-1/2 × 11"	129%
	A3	115%		215.9 × 279.4 mm	11" × 14"
B5 182 × 257 mm 7-1/4" × 10"	A5	81%	Invoice 5-1/2 × 8-1/2" 139.7 × 215.9 mm	11" × 17"	200%
	A6	57%		11" × 14"	164%
	B6	70%		Legal	154%
	A3	164%		Foolscap	152%
	A4	115%		Letter	129%
B6 128 × 182 mm 5" × 7-1/4"	B4	141%	Zoom Ratio = Copy Paper Size ÷ Original Size		
	A6	81%	1" (inch) = 25.4 mm		
	A4	164%	1 mm = 0.0394" (inch)		
	A5	115%			
	B4	200%			
	B5	141%			

4. Index

- A**
- Auto Size Mode 37
 - Auto Size/Manual Priority 57
 - Add Paper 72
 - Add Toner 70
 - Auto Panel Reset for Pulug-In Counter 62
 - Auto Copy Start Function 20
 - Auto Dual Function 46
 - Auto Exposure Mode 41
 - Auto Reset Function 23
 - Auxiliary Toner Replenishing Mode 54
- B**
- Book Copying 42
- C**
- Call-Tech.-Rep. Indicator 93
 - Cleaning 112
 - Closure Failure Indicator 85
 - Condensation 55
 - Control Panel 14
 - Copy Cycle Start 48
 - Corona Unit Cleaning Lever 114
 - Correcting the Number Entry 47
- D**
- Daily Checks 110
 - Default Exposure Mode/Level 58, 59
 - Description of Copy Paper Size 116
 - Display 16
 - Drum Dehumidify Function 55
- E**
- Energy Saver Mode 21, 62
 - Enlargement Ratios 35
- F**
- Finishing Modes 44
 - Finishing Mode Priority 56, 61
 - Fixed Zoom Ratios 35
 - Full Size Copy 35
- I**
- Initial Mode 22
 - I.U. Service Life Indicator 17, 69, 76

- M** Manual Bypass Copying 49
Manual Exposure Mode 41
Misfeed 86
Multi Bypass Copying 50
- N** Non-Sort Mode 44
Number of Copies 47
- O** Original Placement 28
- P** Paper, Add 72
Panel Resetting 23
Paper Size 33
PC Drum 55
Power Switch 19
- R** Reduction Ratios 35
Remove Copies Indicator 45
Replacing the Toner Bottle 70
- S** Setting the Number of Copies 47
Size Counter 52
Sort Mode 44
Sort/Non-Sort Auto Switching ON/OFF 56, 63
Stopping a Multi-Copy Cycle 48
- T** Toner, Add 70
Total Counter 52
Total Number of Copies Mode 52
- U** User's Choice 56
- Z** Zoom Ratios 36
Zoom Ratio Table (Original Size to Copy Paper Size) 39, 117