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NP6045

SERVICE MANUAL

REVISION 1

Canon

MAR. 1997

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Prepared by

OFFICE IMAGING PRODUCTS TECHNICAL SUPPORT DEPT. 1
OFFICE IMAGING PRODUCTS TECHNICAL SUPPORT DIV.

CANON INC.

30-2, Shimomaruko 3-chome, Ohta-ku, Tokyo 146 Japan

INTRODUCTION

This Service Manual provides basic facts and figures needed to service the plain paper copier NP6045 in the field. The NP6045 is designed to enable automated copying work and may be configured with the following system components:

1. Stapler Sorter-E2, Stapler Sorter-G1, Sorter-E1, Sorter-G1
2. RDF-H1

For descriptions on the system components, see their respective service manuals.

This Service Manual covers the copier only, and consists of the following chapters:

- Chapter 1 *General Description* introduces the copier's features and specifications, shows how to operate the copier, and explains how copies are made.
- Chapter 2 *Basic Operation* provides outlines of the copier's various operational workings.
- Chapter 3 *Exposure System* discusses the principles of operation used for the copier's lens drive unit and scanner drive unit. It also explains the timing at which these drive units are operated, and shows how they may be disassembled/assembled and adjusted.
- Chapter 4 *Image Formation System* discusses the principles of how images are formed. It also explains the timing at which the various units involved in image formation are operated, and shows how they may be disassembled/assembled and adjusted.
- Chapter 5 *Pick-Up/Feeding System* explains the principles used from when copy paper is picked up to when a copy is delivered in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 6 *Fixing System* explains the principles used to fuse toner images to transfer media in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 7 *Externals/Auxiliary Mechanisms* shows the copier's external parts, and explains the principles used for the copier's various control mechanisms in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.
- Chapter 8 *Installation* introduces requirements for the site of installation, and shows how the copier may be installed using step-by-step instructions.
- Chapter 9 *Maintenance and Servicing* provides tables of periodically replaced parts and consumables/durables and scheduled servicing charts.
- Chapter 10 *Troubleshooting* provides tables of maintenance/inspection, standards/adjustments, and problem identification (image fault/malfunction).

Appendix contains a general timing chart and general circuit diagrams.

The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive—where a signal name accompanies the symbol , the arrow indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

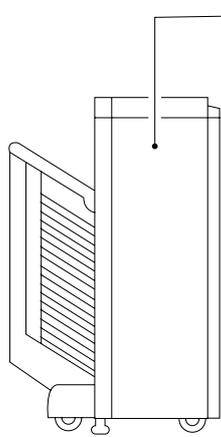
2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High," while '0' is used to indicate "Low." (The voltage value, however, differs from circuit to circuit.)

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

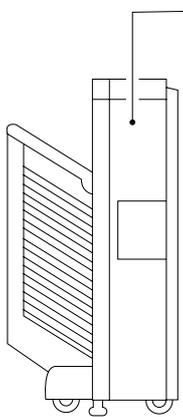
The descriptions in this Service Manual are subject to change without notice for product improvement or other reasons, and major changes will be communicated in the form of *Service Information* bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant *Service Information* bulletins and be able to identify and isolate faults in the machine.

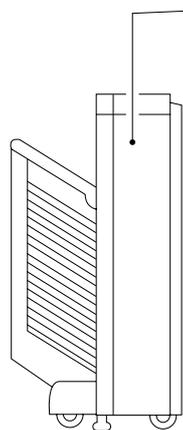
System Configuration



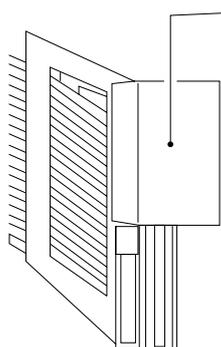
Stapler Sorter-E2
 In addition to the functions of a 20-bin sorter, automatically staples sorted copies. Further, it swings out copies to the front for removal, and is equipped with a multiple stacking function, in which two or more sets of copies may be delivered to a single bin.



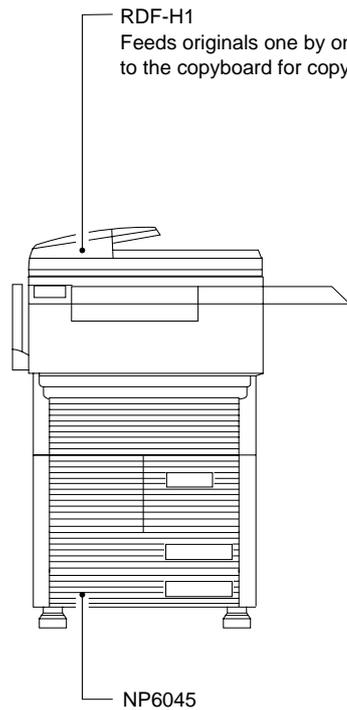
Stapler Sorter-G1
 In addition to the functions of a 20-bin sorter, automatically staples sorted copies.



Sorter-G1
 Is a 20-bin sorter capable of automatic sorting and grouping.



Sorter-E1
 Is a 20-bin sorter capable of automatic sorting and grouping.



RDF-H1
 Feeds originals one by one from a stack to the copyboard for copying.

NP6045

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CHAPTER 1

GENERAL DESCRIPTION

This chapter introduces the copier's features and specifications, shows how to operate the copier, and explains how copies are made.

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I. FEATURES

1. The NP6045 is capable of making as many as 45 copies (A4, horizontal) every minute.
2. It uses newly designed pick-up and feeding mechanisms so that it not only helps save space, but it also is less susceptible to jams.
3. It provides high durability and high image quality required of high-speed copying. The use of the Canon-unique A-Si (amorphous silicon) photosensitive drum ensures high durability while the single-component toner projection mechanism promises high-quality images for a long time.
4. It is equipped with a large-size liquid crystal display, offering easy-to-understand instructions.

II. SPECIFICATIONS

1. Type

Body	Console
Copyboard	Fixed
Light source	Halogen lamp (70 V, 265 W)
Lens	Zoom lens
Photosensitive medium	Amorphous silicon (ø80)

2. System

Body	Front deck paper deck type	
Copying	Indirect electrostatographic	
Charging	Corona	
Exposure	Slit (moving light source)	
Copy density adjustment	Automatic or manual	
Development	Dry (toner projection)	
Pick-up	Automatic	2 front cassettes 1 front paper deck
	Manual	Multifeeder (5.5 mm deep; 50 sheets of 80 g/m ² paper)
Transfer	Corona	
Separation	Corona (static separation)	
Cleaning	Blade	
Fixing	Heating roller (790 W + 410 W; 120 V), (1200 W; 220/240 V)	

3. Performance

Original type	Sheet, book, 3-D object (2 kg max.)			
Maximum original size	A3/11" × 17"			
Copying ratios	Direct	1:1		
	Reduce I	1:0.500		
	Reduce II	1:0.707		
	Reduce III	1:0.816		
	Reduce IV	1:0.865		
	Enlarge I	1:2.000		
	Enlarge II	1:1.414		
	Enlarge III	1:1.224		
	Enlarge IV	1:1.154		
	Zoom	1:0.490 to 2.040 (1% increments)		
Wait time	5 min or less (at 20°C room temperature)			
First copy	3.0 sec (A4, non-AE, top cassette/paper deck)			
Continuous copying	999 copies max.			
Copy size	One-sided	Metric	A3 max.	A6 (vertical, postcard) min.
		Inch	11" × 17" max.	STMT min.
	Two-sided	Metric	A3 max.	A5 (horizontal) min.
		Inch	11" × 17" max.	STMT (horizontal) min.

Copy paper type	Cassette		<ul style="list-style-type: none"> • Plain Paper (64 to 90 g/m²) A3, B4, A4, B5, A4R, B5R, 11" × 17", LGL, LTR, LTR-R, A5, A5R, STMT, STMTR, Foolscap, GLTR, GLTR-R, KLGL, K-LGL-R, OFFICIO, E-OFFICIO, A-OFFICIO, B-OFFICIO, A-LTR, ALTR-R, A-LGL • Tracing Paper* (SM-1) A3, B4, A4, B5, A4R, B5R • Colored Paper (Canon-recommended) B4, A4
	Paper deck		<ul style="list-style-type: none"> • Plain Paper (64 to 90 g/m²) A4, B5, LTR • Colored Paper (Canon-recommended) A4
	Automatic		<ul style="list-style-type: none"> • Plain Paper (64 to 90 g/m²) A3, B4, A4, B5, A4, B5R, 11" × 17", LGL, LTR, LTR-R, STMT-R*, postcard • Tracing Paper (SM-1)* A3, B4, A4, B5, A4R, B5R • Transparency* (Canon-recommended) A4, LTR • Colored Paper* (Canon-recommended) B4, A4 • Label Sheet (Canon-recommended) A4, LTR • Thick Paper* (91 to 200 g/m²)
	Two-sided copying	Automatic	<ul style="list-style-type: none"> • Plain Paper* (64 to 90 g/m²) A3, B4, A4, B5, A4R, B5R, 11" × 17", LGL, LTR, LTR-R, A5, STMT • Colored Paper (Canon-recommended) B4, A4
		Multifeeder	<ul style="list-style-type: none"> • Plain Paper* (64 to 90 g/m²) A3, B4, A4, B5, A4R, B5R, 11" × 17", LGL, LTR, LTR-R, STMT-R, A5, STMT • Colored Paper* (Canon-recommended) B4, A4
	Overlay copying	Automatic	<ul style="list-style-type: none"> • Plain Paper* (64 to 90 g/m²) A3, B4, A4, B5, A4R, B5R, 11" × 17", LGL, LTR, LTR-R, A5, STMT • Colored Paper* (Canon-recommended) B4, A4
		Multifeeder	<ul style="list-style-type: none"> • Plain Paper* (64 to 90 g/m²) A3, B4, A4, B5, A4R, B5R, 11" × 17", LGL, LTR, LTR-R, STMT-R, A5, STMT • Colored Paper* (Canon-recommended) B4, A4

Tray	Claw		None
	Cassette		55 mm deep (500 sheets each of 80 g/m ² paper)
	Paper deck		162 mm deep (about 1500 sheets each of 80 g/m ² paper)
	Copy tray		250 sheets (approx.; A3, 80 g/m ²)
Non-image width	Leading edge		4.5±1.5 mm in Direct (4.5±1.5 mm in non-Direct, Overlay, Two-sided)
	Trailing edge		2.0 ±1.0 mm (2.0 ±1.0 mm in non-Direct, Overlay, Two-sided)
	Left/right (1st side)	A4 horizontal, B5 horizontal, B4, A3, LTR horizontal	2.75±2.5mm
	Left/right (2nd side)	A4 horizontal, B5 horizontal, B4, A3, LTR horizontal	2.75±2.5mm
Auto Clear			Provided (2 min standard; may be changed from 0 to 9 min in 1-min increments and from 0 to 50 sec in 10-sec increments)
Auto Power-Off			Provided (1 hr standard; may be changed from 0 to 2 hr; in 10-min increments up to 1st 1 hr, in 1-hr increments up to 24 hr)
Accessory			<ul style="list-style-type: none"> • Stapler Sorter-E2 • Stapler Sorter-G1 • CC-V • Sorter-E1 • Sorter-G1 • Cassette Heater

4. Others

		Front paper deck
Operating environment	Temperature	7.5° to 32.5°C/45.5° to 90.5°F
	Humidity	5 to 80% RH
	Atmospheric pressure	810.6hPa to 1013.3hPa (0.8 to 1.0 atm)
Power supply	120 V 220/240 V(ITA) 220/240 V(UK) 220/240 V(FRN) 220/240 V(GER) 220/240 V(AMS) 220/240 V(CA) 220/240 V	NGQ XXXXX FGB XXXXX DGB XXXXX BGB XXXXX AGB XXXXX UBW XXXXX, CGB XXXXX RBJ XXXXX PCL XXXXX, EGB XXXXX
Power consumption	Maximum	1.5 kW or less
	Standby	0.3 kWh or less (reference only)
	Continuous copying	1.2 kWh or less (reference only)
Noise	Copying	71 dB or less (sound power level by ISO standards)
	Standby	50 dB or less (as required)
Ozone (avr over 8 hr)		0.05 ppm or less

Dimensions	Width	620 mm/24.4 in
	Depth	725 mm/28.5 in
	Height	1136 mm/44.7 in
Weight		187 kg/412.2 lb (approx.; w/RDF)
Consumables	Copy paper	Keep wrapped to protect against moisture.
	Toner	Avoid direct sunshine, and store at 40°C, 85% or less.

Ratio		Size	Copy size	Copies/min
Direct		A3(297 × 420mm)	A3	24
		A4(210 × 297mm)	A4	45
		B4(257 × 364mm)	B4	30
		B5(182 × 257mm)	B5	45
		A4R(297 × 210mm)	A4R	35
		B5R(257 × 182mm)	B5R	39
Reduce	I (50%)	A3 → 5R	A5R	44
		A3 → 4R	A4R	35
	II (70%)	B4 → B5R	B5R	39
		A4 → A5	A5	45
		B4 → A4R	A4R	35
	IV (86%)	A3 → B4	B4	30
		A4 → B5	B5	45
	Enlarge	I (200%)	A5R → A3	A3
A4R → A3			A3	24
II (141%)		B5R → B4	B4	29
		A5 → A4	A4	45
		A4R → B4	B4	30
IV (115%)		B4 → A3	A3	24
		B5 → A4	A4	45

Table 1-201 Copying Speed (copier only)

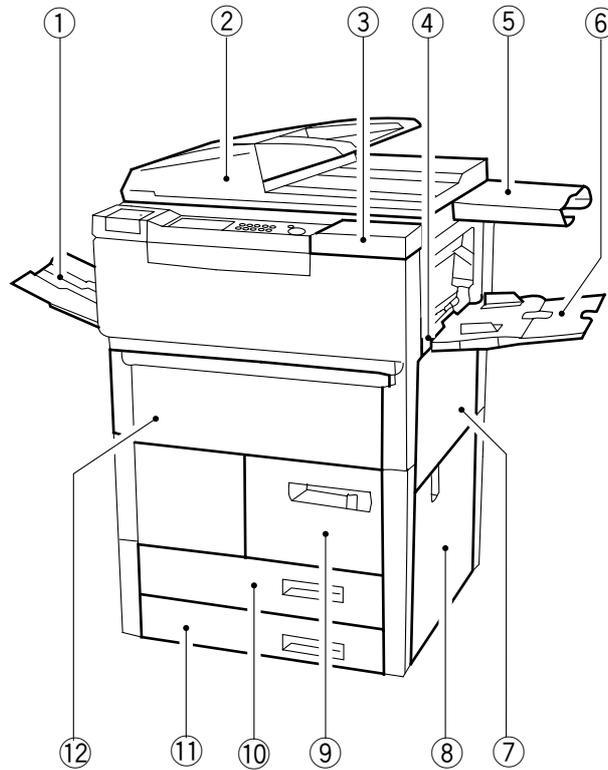
Ratio		Size	Copy paper size	Copies/min
Direct		LTR	LTR	45
		11" × 17"	11" × 17"	24
		LGL	LGL	30
		LTRR	LTRR	37
		STMT/STMTR	STMT/STMTR	45
Reduce	I (50%)	11" × 17" → STMTR	STMTR	43
	II (64.7%)	11" × 17" → LTRR	LTRR	37
	III (73.3%)	11" × 15" → LTRR	LTRR	30
	I (200%)	STMR → 11" × 17"	11" × 17"	24
Enlarge	II (129.4%)	LTRR → 11" × 17"	11" × 17"	24
	III (121.4%)	LGL → 11" × 17"	11" × 17"	24

Table 1-202 Copying Speed (copier only)

Specifications are subject to change without notice.

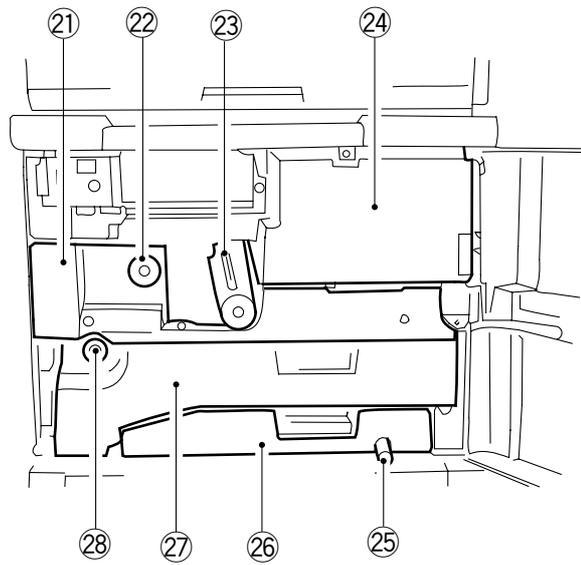
III. NAMES OF PARTS

A. External View



- | | |
|-------------------------------|--------------------|
| ① Copy tray | ⑦ Upper right door |
| ② RDF | ⑧ Lower right door |
| ③ Toner supply mouth | ⑨ Paper deck |
| ④ Power switch | ⑩ Cassette 3 |
| ⑤ Original tray/manual holder | ⑪ Cassette 4 |
| ⑥ Mulfifeeder | ⑫ Front door |

Figure 1-301

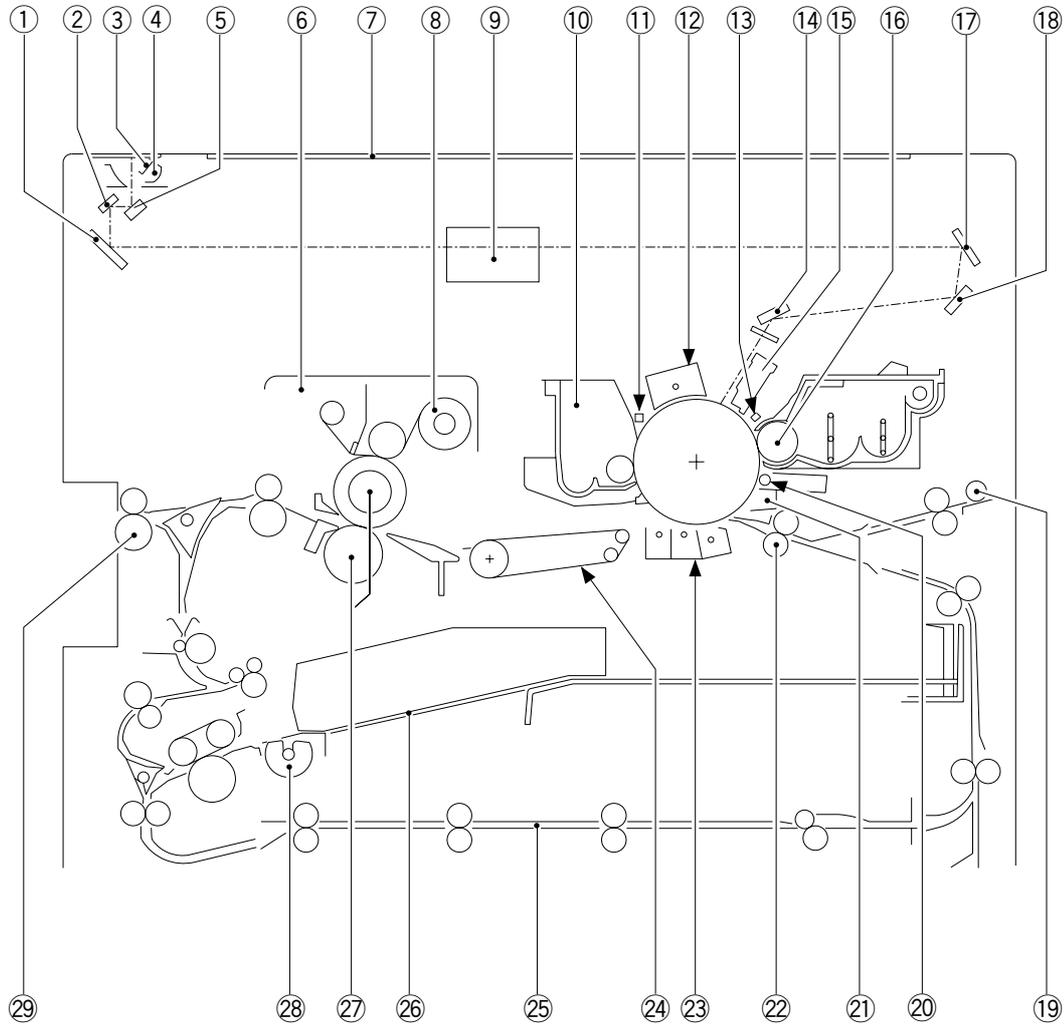


- | | | | |
|----|---|----|-------------------------------|
| ②1 | Fixing/feeding assembly | ②5 | Holding tray feeding knob |
| ②2 | Fixing assembly knob | ②6 | Holding tray feeding assembly |
| ②3 | Fixing/feeding assembly releasing lever | ②7 | Holding tray assembly |
| ②4 | Toner hopper | ②8 | Holding tray knob |

Figure 1-302

B. Cross Section

1. Cross Section of the Body



- | | | |
|--------------------------|----------------------------------|--|
| ① No. 3 mirror | ⑫ Primary charging assembly | ⑳ Registration roller |
| ② No. 2 mirror | ⑬ Potential sensor | ㉑ Transfer/separation assembly |
| ③ Heat absorption glass | ⑭ No. 6 mirror | ㉒ Feeding belt |
| ④ Scanning lamp | ⑮ Blank exposure lamp | ㉓ Duplexing unit feeding assembly |
| ⑤ No. 1 mirror | ⑯ Developing cylinder | ㉔ Holding tray |
| ⑥ Fixing assembly | ⑰ No. 4 mirror | ㉕ Fixing roller |
| ⑦ Copyboard glass | ⑱ No. 5 mirror | ㉖ Holding tray pick-up (crescent) roller |
| ⑧ Fixing cleaner belt | ㉒ Multifeeder pick-up roller | ㉗ Delivery roller |
| ⑨ Lens | ㉓ Roller electrode | |
| ⑩ Drum cleaning assembly | ㉔ Pre-transfer charging assembly | |
| ⑪ Pre-exposure lamp | | |

Figure 1-303

IV. OPERATIONS

A. Control Panel

- | | |
|------------------------|----------------------|
| ① Touch panel display | ⑧ Toner supply mouth |
| ② Guide key | ⑨ Pilot lamp |
| ③ Reset key | ⑩ Copy Start key |
| ④ Keypad | ⑪ Clear key |
| ⑤ Display Contrast key | ⑫ Interrupt key |
| ⑥ Energy Saver key | ⑬ User Mode key |
| ⑦ Stop key | ⑭ Preferences key |

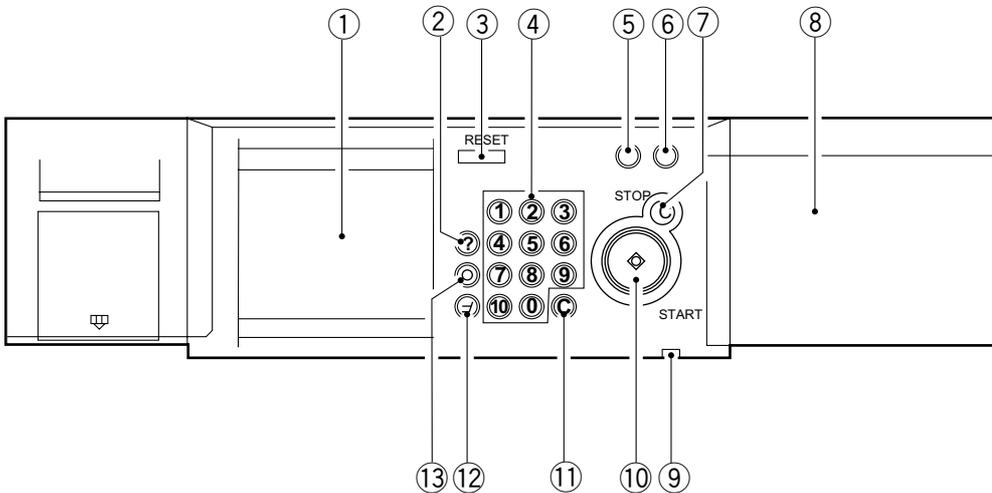


Figure 1-401

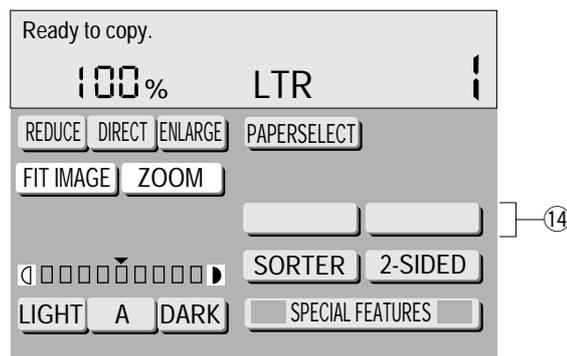


Figure 1-402