

Product: 2000 Canon iR5000/iR6000 Printer Service Repair Workshop Manual
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iR5000/iR6000

SERVICE MANUAL

REVISION 0

Canon

JULY 2000

FY8-13GS-000

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Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

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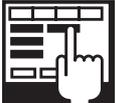
Imprimé au Japon

Caution

Use of this manual should be strictly supervised to avoid disclosure of confidential information.

1. Symbols Used

This documentation uses the following symbols to indicate special information:

Symbol	Description
	Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.
	Indicates an item requiring care to avoid electric shocks.
	Indicates an item requiring care to avoid combustion (fire).
	Indicates an item prohibiting disassembly to avoid electric shocks or problems.
	Indicates an item requiring disconnection of the power plug from the electric outlet.
 Memo	Indicates an item intended to provide notes assisting the understanding of the topic in question.
 REF.	Indicates an item of reference assisting the understanding of the topic in question.
	Provides a description of a service mode.
	Provides a description of the nature of an error indication.
	Refers to the Copier Basics Series for a better understanding of the contents.

2. Outline of the Manual

This Service Manual contains basic information needed to service the iR5000/iR6000 and its accessories (i.e., side paper deck, shift tray) in the field, conducted for the purpose of maintaining its product quality and a specific level of performance. A separate Service Manual is made available for each of its accessories (except for the side paper deck and shift tray); for details, refer to the appropriate manual.

This Service Manual consists of the following chapters:

1. System Unit

Chapter 1	Introduction:	features, specifications, names of parts, functions, operation, system configuration, routine maintenance by the user
Chapter 2	Main Controller:	functional construction, outline of electrical circuitry, principles of operation of the image processing system, power supply
Chapter 3	Installation:	site conditions and installation procedure, relocation of the machine, installation of accessories

2. Reader Unit

Chapter 1	Basic Operation:	functional construction, outline of electrical circuitry, basic sequence of operations
Chapter 2	Original Exposure System:	principles of operation of the exposure system, timing of operation, disassembly/assembly and adjustment
Chapter 3	Image Processing System:	principles of operation of the image processing system, timing of operation, disassembly/assembly and adjustment

3. Printer Unit

Chapter 1	Introduction:	safety of the laser, image formation, auxiliary processes
Chapter 2	Sequence of Operations:	basic operations, outline of electrical circuitry, basic sequence of operations
Chapter 3	Laser Exposure System:	principles of operation of the laser exposure system, timing of operation, disassembly/assembly and adjustment
Chapter 4	Image Formation System:	principles of operation of the image formation system, timing of operation, disassembly/assembly and adjustment
Chapter 5	Pickup/Feeding System:	principles of operation of the pickup/feeding system, timing of operation, disassembly/assembly and adjustment

Chapter 6	Fixing System:	principles of operation of the fixing system, timing of operation, and disassembly/assembly and adjustment
Chapter 7	Externals and Controls:	principles of operation of the externals/controls, timing of operation, disassembly/assembly and adjustment
Chapter 8	Paper Deck:	principles of operation, timing of operation, disassembly/assembly and adjustment
Chapter 9	Shift Tray:	principles of operation, timing of operation, disassembly/assembly adjustment
4. Troubleshooting		
Chapter 1	Maintenance and Inspection:	table of periodically replaced parts, table of consumables/durables, scheduled servicing chart
Chapter 2	Image Adjustment Basic Procedure:	basic procedure for image adjustment
Chapter 3	Standards and Adjustments:	standards and adjustments
Chapter 4	Troubleshooting Image Faults/Malfunctions:	troubleshooting image faults/malfunctions
Chapter 5	Service Mode:	how to use service mode, list of service modes
Chapter 6	Self Diagnosis:	codes, causes of errors, timing chart
Appendix:		general timing chart, general circuit diagrams

The descriptions are updated from time to time to reflect product improvements, and major changes are communicated in the form of Service Information bulletins.

All service persons are expected to familiarize themselves with the contents of this Service Manual and Service Information bulletins and acquire a level of knowledge and skill required to promptly respond to the needs of the field.

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 addition, the asterisk (*) as in “DRMD*” indicates that the DRMD signal goes on when ‘0’.

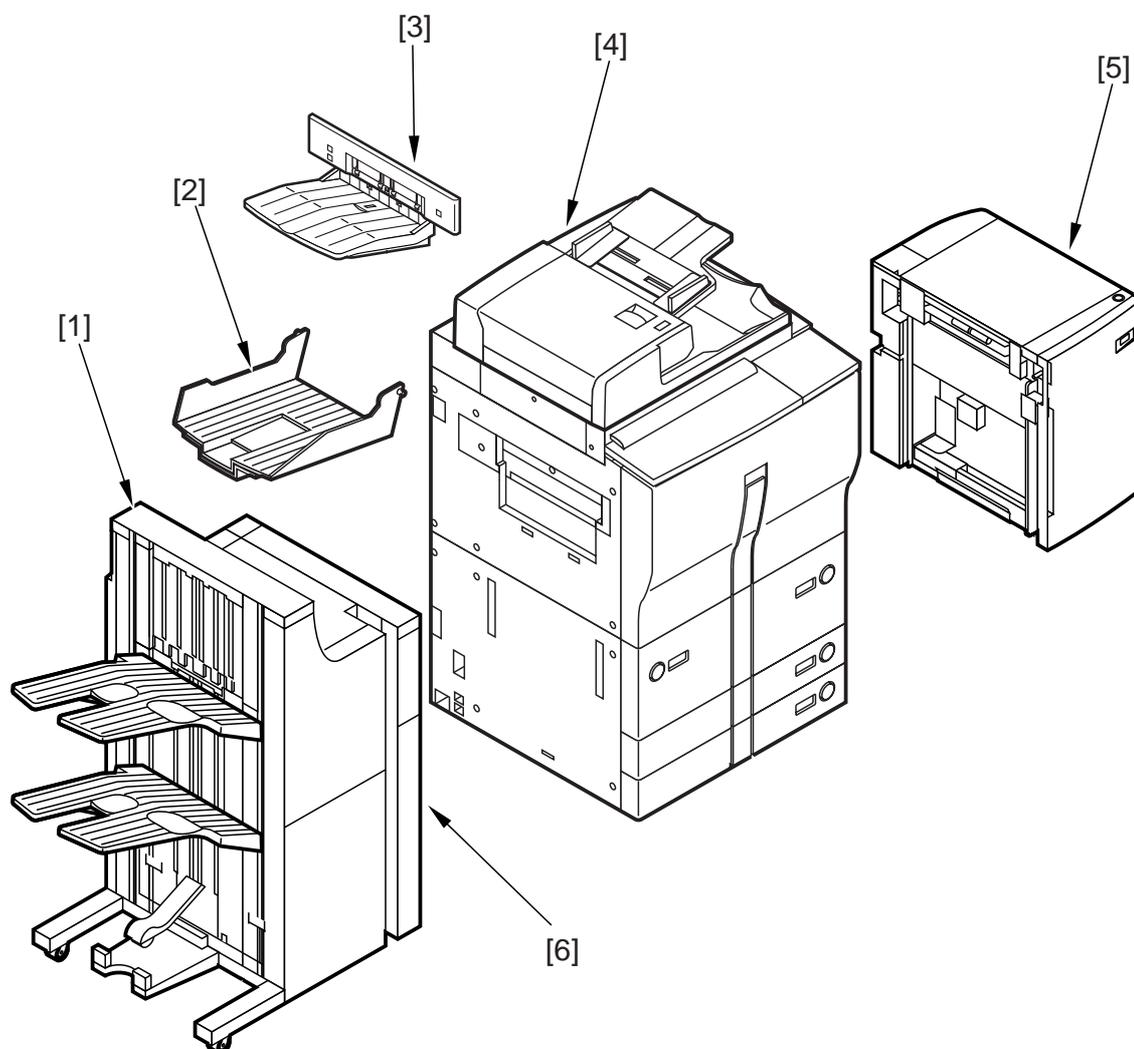
In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC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

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, 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

The iR5000/iR6000 may be configured with the following accessories for a fully integrated system:



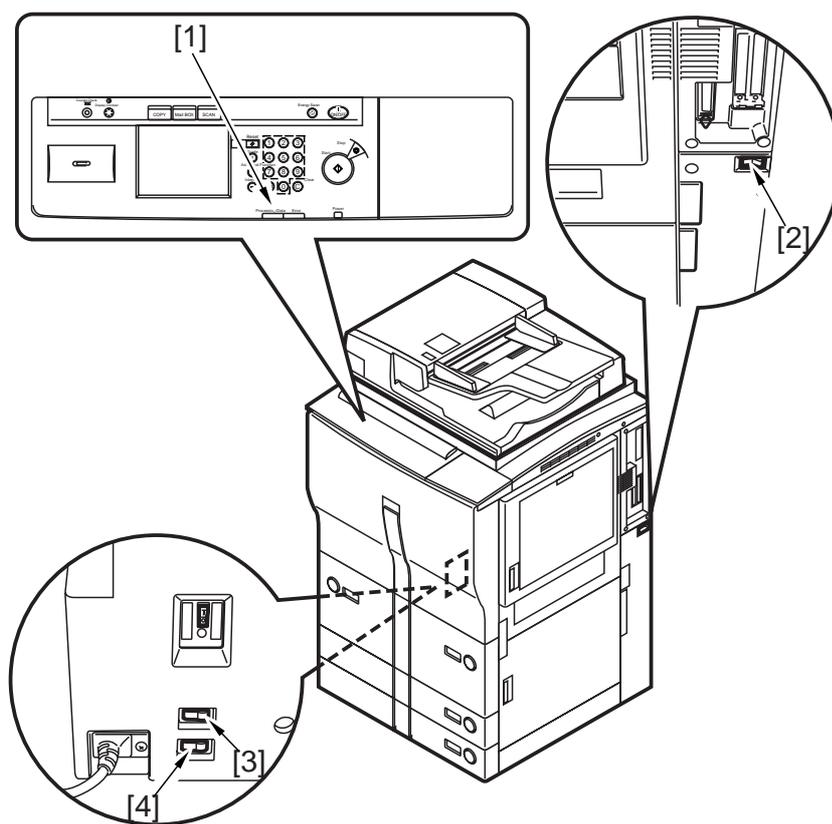
- [1] Finisher-F1/Saddle Finisher-F2
- [2] Copy Tray-C1
- [3] Shift Tray-B1
- [4] DADF-D1 (standard)
- [5] Paper Deck-G1
- [6] Puncher Unit-B1/C1/D1

Figure 1

Important!

Be sure to turn off the main power switch and disconnect the power plug before starting to disassemble the machine; in addition, keep the following in mind for the work:

1. In printer mode, turning off the main power switch can result in the loss of data being processed. Check to make sure that the Execution/Memory lamp on the control panel is off before operating the main power switch.
2. Do not turn off the main power switch while downloading is taking place. Otherwise, the machine may become disabled.
3. The cassette heater and the drum heater remain powered as long as the environment switch and the heater switch are on (even when the main power switch is off).
4. Not all power is removed when the front cover is opened if the main power switch is on, requiring care.



- [1] Execution/Memory lamp
- [2] Main power switch
- [3] Cassette heater switch
- [4] Environment switch

Figure 2 Arrangement of the Switches

SYSTEM UNIT SERVICE MANUAL

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CHAPTER 1

GENERAL DESCRIPTION

1. Features

1.0.1 High Speed, High Image Quality

Copying speed: 50 copies/min (iR5000; 1-on-N; from cassette/deck)

60 copies/min (iR6000; 1-on-N; from cassette/deck)

Reading resolution: 600 × 600 dpi

Printing resolution: 1200* × 600 dpi (copier mode; smoothing ON; varies by model)

2400* × 600 dpi (printer mode)

*Equivalent.

1.0.2 Hard Disk

The machine comes with a hard disk as standard, enabling memory-based sorting. The machine is capable of making multiple copies by reading the original once.

1.0.3 Stackless, Duplexing Mechanism

The machine moves paper seamlessly when making double-sided copies without any waste as by stacking it in a duplexing unit.

1.0.4 Large-Capacity Paper Source

The addition of an accessory will enable accommodation of as many as 7650 sheets of paper (80 g/m²).

Right front paper deck: 1500 sheets

Left front paper deck: 1500 sheets

Cassette 3: 550 sheets

Cassette 4: 550 sheets

Multifeeder: 50 sheets

Paper Deck-G1 (accessory): 3500 sheets

1.0.5 Variety of Delivery Processing (with accessories)

Finishing: 1-point or 2-point stapling (Finisher)

Saddle stitching: middle binding and folding for delivery (Saddle Finisher-F2 only)

Punching: making binding holes for delivery (Puncher Unit)

2. Specifications

2.1 Copier

2.1.1 Type

Item	Specifications
Body	Console
Copyboard	Fixed
Light source	Xenon tube
Lens	Lens array (F3.7)
Photosensitive medium	Amorphous silicon drum (80-dia.)

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2.1.2 Method

Item	Specifications
Reproduction	Indirect statophotography
Charging	Corona
Exposure	Laser
Copy density adjustment	Auto or manual
Development	Dry, 1-component toner production
Pickup	Auto
	Manual
Transfer	Corona
Separation	Corona (static separation)
Cleaning	Blade
Fixing	Heat roller
	100 V: 700 W (main) + 470 W (sub)
	120/230 V: 600 W (main) + 600 W (sub)

T01-201-02

2.1.3 Functions

Item	Specifications	
Original type	Sheet, book, 3-D object (2 kg max.)	
Maximum original size	A3/279.4×431.8 mm (11"×17")	
Reproduction ratio	Direct 1: 1	
	Reduce I 1: 0.250	
	Reduce II 1: 0.500	
	Reduce III 1: 0.611	
	Reduce IV 1: 0.707	
	Reduce V 1: 0.816	
	Reduce IV 1: 0.865	
	Enlarge I 1: 0.154	
	Enlarge II 1: 1.224	
	Enlarge III 1: 0.414	
Enlarge IV 1: 2.000		
Enlarge V 1: 4.000		
Zoom	1: 0.250 to 4.00 (in 1% increments)	
Wait time	iR5000: 5 min or less (at 20°C/168°F) iR6000: 6 min or less (at 20°C/168°F)	
First copy time	5.5 sec (stream reading, right deck, Direct, A4/LTR, non-AE, straight delivery) 3.8 sec (book mode, right deck pickup, Direct, A4/LTR, non-AE, straight delivery)	
Continuous reproduction	999 prints max. AB A3 max. Postcard min.	
Print size	Single-sided	(vertical)
		Inch 279.4 × 431.8 mm STMT min.
		(11"×17") max. (vertical)
		AB A3 max. A5 min.
	Duplexing	(vertical)
	Inch 279.4 × 431.8 mm STMT min.	
	(11"×17") max. (vertical)	

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Pickup	Paper type
Right deck	Plain paper (64 to 80 g/m ²)
Left deck	A4, B5, LTR Tracing paper A4, B5 Colored paper (Canon-recommended) A4 Thick paper (90 to 200 g/m ²) A4, B5, LTR
Cassette 3	Plain paper (64 to 80 g/m ²) A3, B4, A4, B5, A5R, A4R, B5R
Cassette 4	279.4×431.8 mm (11" × 17"), LGL, LTR, LTRR, STMT (vertical feeding) Tracing paper B4, A4, A4R Colored paper (Canon-recommended)
Manual feed tray	(vertical feeding) (64 to 80 g/m ²) A3, B4, A4, B5, A5R, A4R, B5R 279.4×431.8 mm (11" × 17"), LGL, LTR, LTRR, STMT (vertical feeding) Tracing paper A3, B4, A4, B5, A4R, B5R Transparency (Canon-recommended) A4, A4R, LTR, LTRR Colored paper (Canon-recommended) B4, A4, A4R Postcard (vertical feeding only) Postcard, 2-in-1 postcard (vertical feeding only), 4-in-1 postcard (horizontal feeding only) Label sheet (Canon-recommended) B4, A4, A4R, LTR, LTRR Thick paper (90 to 200 g/m ²) A3, B4, A4, B5, A4R, B5R, LTR, LTRR

T-01-201-04

Item	Paper type
Single-sided	Plain paper (64 to 80 g/m ²) A3, B4, A4, B5, A5R, A4R, B5R 279.4×431.5 mm (11"×17"), LGL, LTR, LTRR, STMT (vertical feeding) Tracing paper A3, B4, A4, B5, A4R, B5R Transparency (Canon-recommended) A4, A4R, LTR, LTRR Colored paper (Canon-recommended) B4, A4, A4R Postcard (vertical feeding only) Postcard, 2-in-1 postcard (vertical feeding only), 4-in-1 postcard (horizontal feeding only) Label sheet (Canon-recommended) B4, A4, A4R, LTR, LTRR Thick, paper (90 to 200 g/m ²) A3, B4, A4, B5, A4R, B5R, LTR, LTRR
Reverse delivery	Plain paper (64 to 80 g/m ²) A3, B4, A4, B5, A5R, A4R, B5R 279.4×431.8 mm (11"×17"), LGL, LTR, LTRR, STMT (vertical feeding) Colored paper (Canon-recommended) B4, A4, A4R Thick paper (90 to 200 g/m ²) A3, B4, A4, B5, A4R, B5R, LTR, LTRR

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Item	Paper type
Auto	<ul style="list-style-type: none"> • Plain paper (64 to 80 g/m²) A3, B4, A4, B5, A5R, A4R , B5R 279.4×431.8 mm (11"×17"), LGL, LTR, LTRR, STMT (vertical feeding)
Double-sided	<ul style="list-style-type: none"> • Colored paper (Canon-recommended) B4, A4, A4R Thick paper (90 to 200 g/m²) A3, B4, A4, B5, A4R, B5R, LTR, LTRR
Manual feed tray	<ul style="list-style-type: none"> • Plain paper (64 to 80 g/m²) A3, B4, A4, B5, A5R, A4R, B5R 279.4×431.8 mm (11"×17"), LGL, LTR, LTRR, STMT (vertical feeding) • Colored paper (Canon-recommended) B4, A4, A4R • Thick paper (90 to 200 g/m²) A3, B4, A4, B5, A4R, B5R, LTR, LTRR

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Item		Specifications
Claw		None
Tray	Paper deck (right, left)	162 mm/16.4 in deep (approx.; about 1500 sheets of 80 g/m ² paper)
	Cassette 3/4	55 mm/2.2 in deep (approx.; about 550 sheets of 80 g/m ²)
Delivery tray		250 sheets (approx.; of 80 g/m ²)
Hard disk		6.4 GB or 5.1 GB*1
Non-image width	Leading edge	Direct/Enlarge-Reduce: $4.0 \pm 1.5/-1.0\text{mm} < 4.5 \pm 1.8\text{mm} > *2$
	Trailing edge	Direct/Enlarge-Reduce: $2.0 \pm 1.5\text{mm} < 2.0 \pm 1.8 \text{mm} > *2$
	Left/right (1st side)	Direct/Enlarge-Reduce: $2.5 \pm 1.5\text{mm} < 2.5 \pm 2.0 \text{mm} > *2$
Auto clear		Yes (2 min standard; may be changed between 0 and 9 min in 1-min increments)
Auto power off		No
	Low-power mode	Yes (15 min standard; may be changed in user mode for 10, 15, 20, 30, 40, 50, 60, 90 min and 2, 3, 4 hr)
Power save mode	Auto sleep	Yes (60 min standard; may be changed to 10, 15, 20, 30, 40, 50, 60, 90 min, 2, 3, 4 hr in user mode)
	Energy save mode	Yes (-10% standard; may be changed to -10%, -25%, -50%, no return time (0%) in user mode)
Accessories		<ul style="list-style-type: none"> • Paper Deck-G1 • Remote Diagnostic Device II • Control Card-IV • Finisher-F1 • Saddle Finisher-F2 • Puncher Unit-B1/C1/D1 (2/3/4 holes) • Network LIPS Printer Kit-A1 (100-V only) • Network Multi-PDL Printerkit-A1 (120/230-V only)

*1: The HDD mounted in the machine or an HDD supplied as a service part may have a different memory size; all HDDs use the same area (amount) of memory and, therefore, the fact will not cause a problem.

*2: The values within $\langle \rangle$ indicate the use of an ADF.

T01-201-07

The specifications are subject to change for product improvement.

2.1.4 Others

	Item	Specifications	
Operating environment	Temperature	15 to 30°C/59 to 86°F	
	Humidity	5% to 80%RH	
	Atmospheric pressure	810.6 to 1013.3 hpa (0.8 to 1.0 atm)	
Power supply		iR5000	iR6000
	100V (50/60Hz)	LQHxxxxx	LQKxxxxx
		LQJxxxxx	LQLxxxxx
	120V (50/60Hz)	NRFxxxxx	NRHxxxxx
		NRGxxxxx	NRJxxxxx
	220V/60Hz	PKMxxxxx	PKLxxxxx
	230V (50/60Hz)	PKKxxxxx	PKZxxxxx
		PKLxxxxx	PLHxxxxx
		QCWxxxxx	QCXxxxxx
		PBZxxxxx	RCYxxxxx
		SCKxxxxx	SCLxxxxx
	TBZxxxxx	TCMxxxxx	
	UFMxxxxx	UFNxxxxx	
Power consumption	Maximum	iR5000: 1.3 kW or less	iR6000: 1.3 kW or less
	Stand by	iR5000: 282 Wh (approx.; reference)	iR6000: 282 Wh (approx.; reference)
Noise	Continuous copying	iR5000: 995 Wh (approx.; reference only) iR6000: 1008 Wh (approx.; reference only)	
	During copying	iR5000: 71 dB or less	iR6000: 78 dB or less
	During standby	iR5000: 50 dB or less	iR6000: 55 dB or less
Ozone (after 2500, 000 prints)	Width	0.05 ppm or less	
Dimensions	Depth	852 mm/33.5 in	
	Height	726 mm/28.6 in	
		1134 mm/44.7 in	
Weight		210 kg (approx.)/470.4 lb (approx.)	
Consumables	Copy paper	Keep wrapped, and store avoiding humidity.	
	Toner	Avoid direct sunlight, and store at 40°C, 85% RH or less.	

T01-201-08

Reproduction ratio	Size	Paper size	copies/min (1-to-N)		
			iR5000	iR6000	
Direct	A3 (297×420 mm)	A3	30	30	
	A4 (210×297 mm)	A4	50	60	
	B4 (257×364 mm)	B4	36	36	
	B5 (182×257 mm)	B5	50	60	
	A4R (297×210 mm)	A4R	38	41	
	B5R (257×182 mm)	B5R	40	44	
	A5R (210×149 mm)	A5R	50	60	
Reduce	II (50%)	A3→A5R	A5R	50	60
	III (61.1%)	A3→B5R	B5R	40	44
	IV (70.7%)	B4→B5R	B5R	40	44
	V (81.6%)	A3→A4R	A4R	38	41
	VI (86.5%)	B4→A4R	A4R	38	41
		B5R→A5R	A5R	50	60
Enlarge	IV (200.0%)	A4→B5	B5	50	60
	III (141%)	A3→B4	B4	36	36
	II (122.4%)	A5R→A3	A3	30	30
	I (115.4%)	A4R→A3	A3	30	30
		B5R→B4	B4	36	36
		A4R→B4	B4	36	36

Delivery by the machine, auto paper select, auto density select, non-sort, deck/cassette

T01-201-09 Copying Speeds (copier only)

Reproduction ratio	Size	Paper size	copies/min		
			iR5000	iR6000	
Direct	279.4×431.8 mm (11"×17")	279.4×431.8 mm (11"×17")	30	30	
	LTR	LTR	50	60	
	LGL	LGL	36	36	
	LTRR	LTRR	39	42	
	STMTR	STMTR	50	60	
Reduce	II (50.0%)	279.4×431.8 mm (11"×17")→STMTR	STMTR	50	60
	III (64.7%)	279.4×431.8 mm (11"×17")→LTRR	LTRR	39	42
	IV (73.3%)	279.4×431.8 mm (11"×17")→LGL	LGL	36	36
	V (78.6%)	LGL→LTRR	LTRR	39	39
	Enlarge	IV (200.0%)	STMTR*→ 279.4×431.8 mm (11"×17")	279.4×431.8 mm (11"×17")	30
III (129.4%)		LTRR→ 279.4×431.8 mm (11"×17")	279.4×431.8 mm (11"×17")	30	30
II (121.4%)		LGL→ 279.4×431.8 mm (11"×17")	279.4×431.8 mm (11"×17")	30	30

* Cannot be set in an ADF as an original.

Delivery by the machine, auto paper select, auto density select, non-sort, deck/cassette

T01-201-10 Copying Speeds (copier only)

The specifications are subject to change for product improvement.

2.2 Paper Deck-G1

Item	Specifications
Pickup	Clawless (retard)
Paper accommodation	Side tray
Copy paper type	<ul style="list-style-type: none"> • Plain paper (64 to 80 g/m²) A4, B5, LTR • Tracing paper (SM-1) A4, B5 • Colored paper (Canon-recommended) A4
Paper stack	Thick paper (90 to 200 g/m ²) A4, B5, LTR
Serial number	Height: 385 mm (approx.; about 3500 sheets)
Paper size switch	A4 type: XCQ xxxxx/LTR type: XCRxxxxx
Dimensions	By size guide plate (in steps), in service mode (OPTION)
Weight	326.2 (W) × 583 (D) × 574.5 (H) mm/ 12.8 (W) × 23.0 (D) × 22.6 (H) in
Power supply	46 kg (approx.)/101.4 lb (approx.)
Operating environment	DC from host machine
Temperature	Same as host machine
Humidity	
Atmospheric pressure	

T01-202-01

The specifications are subject to change for product improvement.

2.3 Shift Tray-B1

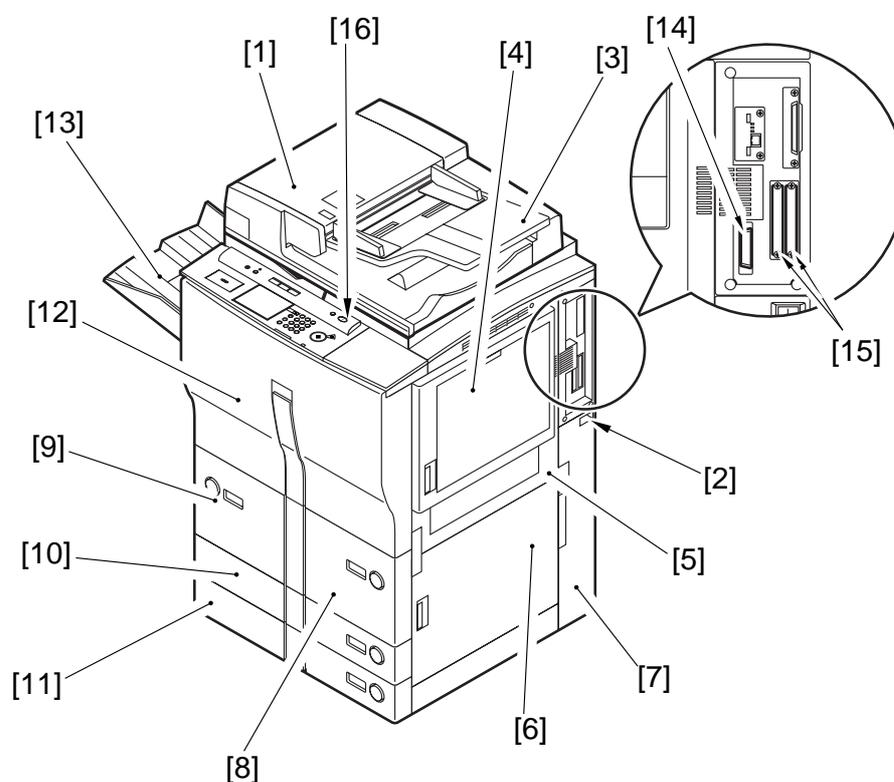
Item	Specifications
Paper type	Same as host machine
Paper size	Feeding Shifting
	Same as host machine LTR, LTRR, LGL, 279.4×431.8 mm (11"×17"), A4, A4R, A3
Paper stack	Height: 60 mm /2.4 in (approx.; about 500 sheets of 64 g/m ²)
Stacking performance	Delivery direction
	(w/ shift)
	Shift direction
	(w/ shift)
	w/o shift
	50 mm or less between stacks: 20 mm or more within stack: [between stacks -5] mm 100 mm or less
Serial number	XCSxxxxx
Dimensions	365.3 (W) × 547.0 (D), 255.7 (H) mm/ 14.4 (W) × 21.5 (D) × 10.1 (H) in
Weight	4.2 kg (approx.)/9.3 lb (approx.)
Power supply	DC from host machine
Maximum power consumption	2 W or less
Operating environment	Same as host machine
Temperature	
Humidity	
Atmospheric pressure	

T01-203-01

The specifications are subject to change for product improvement.

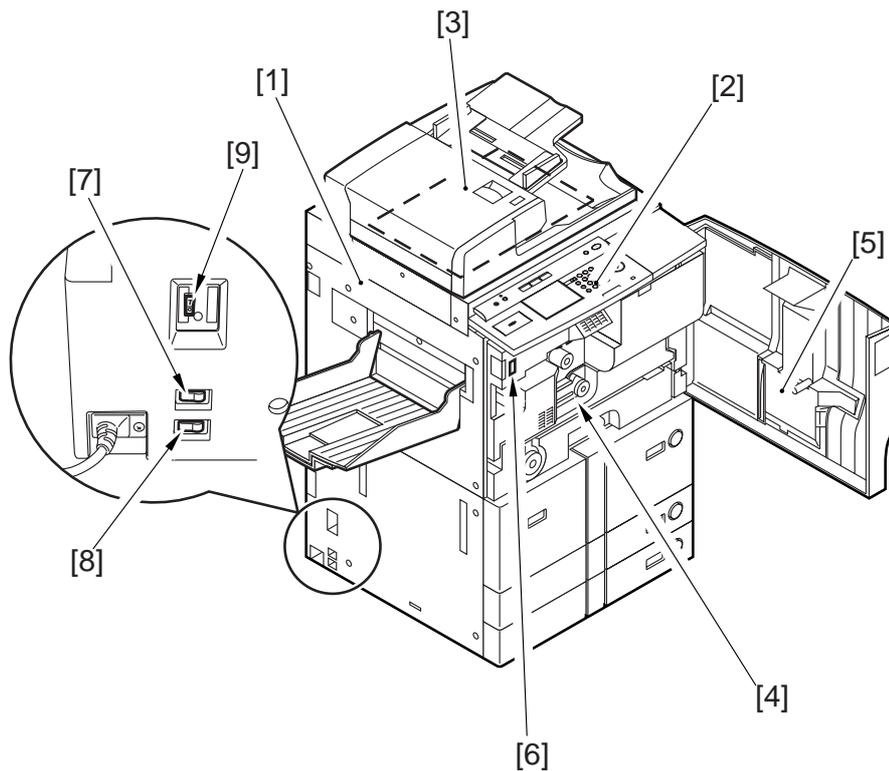
3. Names of Parts

3.1 External View



- | | |
|--|---|
| [1] ADF | [9] Left front paper deck |
| [2] Main power switch | [10] Cassette 3 |
| [3] Original pickup tray | [11] Cassette 4 |
| [4] Manual feed tray | [12] Front cover |
| [5] Right upper cover | [13] Delivery tray |
| [6] Right lower cover | [14] Parallel connector for downloading |
| [7] Waste toner box, grip,
drum protection sheet case | [15] Slot for expansion board |
| [8] Right front paper deck | [16] Control panel power switch |

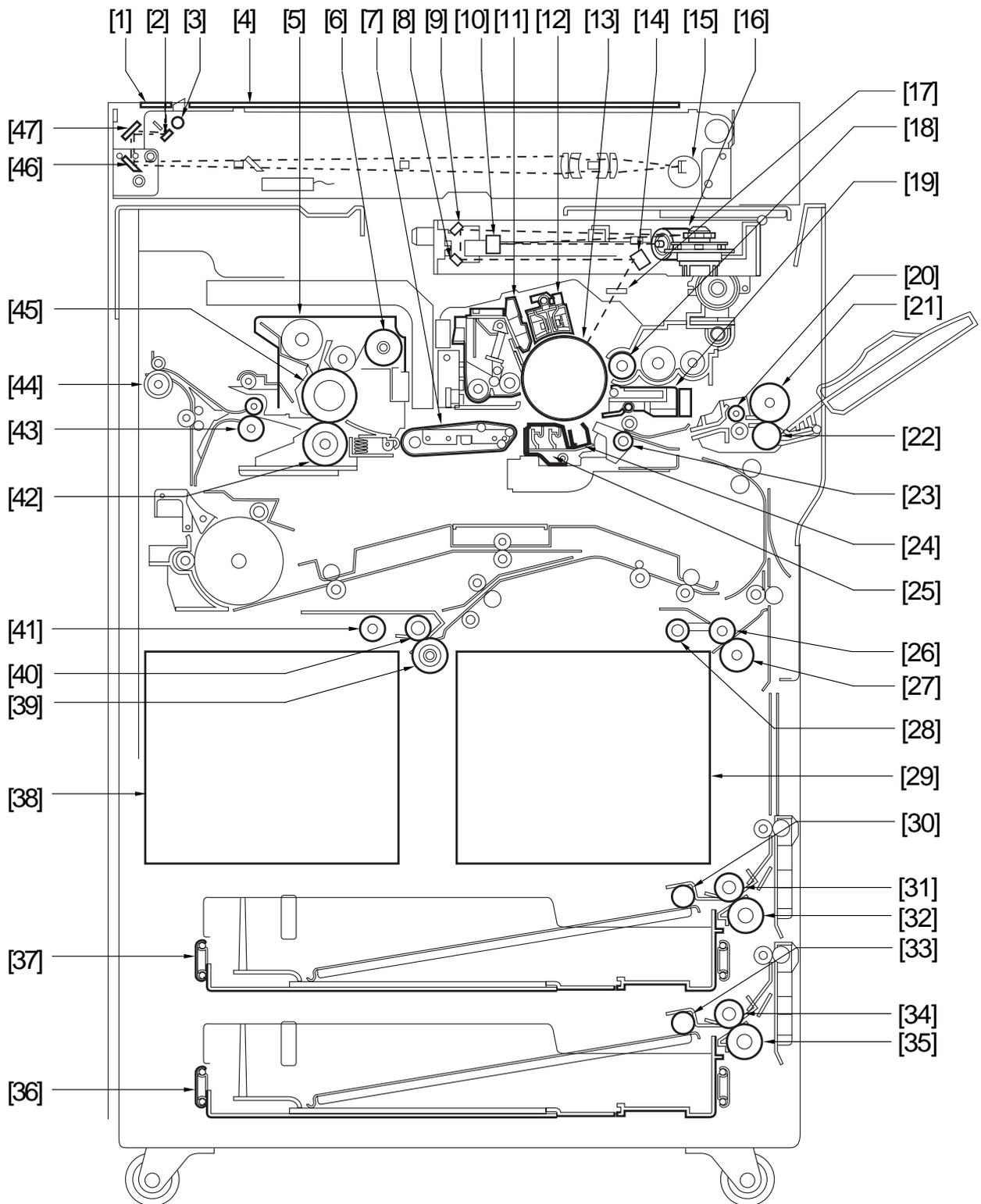
F01-301-01 External View 1



- [1] Delivery assembly cover
- [2] Control panel
- [3] Copyboard glass
- [4] Feeding assembly releasing lever
- [5] Service book case
- [6] Door switch assembly
- [7] Cassette heater switch
- [8] Environment switch
- [9] Leakage breaker

F01-301-02 External View 2

3.2 Cross Section



F01-302-01 Cross Section

CHAPTER 1 GENERAL DESCRIPTION

- | | |
|-------------------------------------|-----------------------------------|
| [1] ADF reading glass | [25] Separation charging assembly |
| [2] No. 1 mirror | [26] Right deck feed roller |
| [3] Scanning lamp | [27] Right deck separation roller |
| [4] Copyboard glass | [28] Right deck pickup roller |
| [5] Fixing assembly | [29] Right deck |
| [6] Fixing web | [30] Cassette 3 pickup roller |
| [7] Feeding assembly | [31] Cassette 3 feed roller |
| [8] Laser mirror 3 | [32] Cassette 3 separation roller |
| [9] Laser mirror 2 | [33] Cassette 4 pickup roller |
| [10] Laser mirror 1 | [34] Cassette 4 feed roller |
| [11] Drum cleaner assembly | [35] Cassette 4 separation roller |
| [12] Primary charging assembly | [36] Cassette 4 |
| [13] Photosensitive drum | [37] Cassette 3 |
| [14] Laser mirror 4 | [38] Left deck |
| [15] CCD unit | [39] Left deck separation roller |
| [16] Lens unit | [40] Left deck feed roller |
| [17] Dust-proofing glass | [41] Left deck pickup roller |
| [18] Developing cylinder | [42] Fixing lower roller |
| [19] Pre-transfer charging assembly | [43] Internal delivery roller |
| [20] Manual feed pull-out roller | [44] External delivery roller |
| [21] Manual feed feed roller | [45] Fixing upper roller |
| [22] Manual feed separation roller | [46] No. 3 mirror |
| [23] Registration roller | [47] No. 2 mirror |
| [24] Transfer charging assembly | |