Portable Manual

iR2020/2016 Series

Canon

Application

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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.
	Indicates an item intended to provide notes assisting the understanding of the topic in question.
	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.

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."

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Chapter 5 Outline of Components

Chapter 6 System Construction

Chapter 7 Upgrading

Chapter 1 Maintenance and Inspection

1.1 Periodically Replaced Parts

1.1.1 Overview

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The machine has parts that must be replaced on a periodical basis to ensure a specific level of functional performance. (The loss of the function of any of these parts will significantly affect the machine performance, regardless of the presence/absence of external changes or damage.)
If possible, schedule the replacement so that it coincides with a scheduled service visit.

⚠

The timing of replacement may vary depending on the site environment or user habit.

1.1.2 Reader Unit

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The reader unit does not have parts that require periodical replacement.

1.1.3 Printer Unit

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The printer unit does not have parts that require periodical replacement.

1.2 Durables and Consumables

1.2.1 Overview

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The machine has parts that may require replacement once or more during the period of product warranty because of wear or damage. Replace them as needed by referring to their indicated estimated lives.
- Checking the Timing of Replacement
Use the following service mode item to check the timing of replacement:
  #COUNTER > DRBL-1
  - FX-UNIT: Fixing Unit
  - TR-ROLL: Transfer roller
  - DV-UNIT-C: Developing unit
  - M-PU-RL: Manual feed pickup roller
  - M-SP-PD: Manual feed separation pad

1.2.2 Reader Unit

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The reader unit does not have parts that are classified as durables.

1.2.3 Printer Unit

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-1-1

Ref.	Parts name	Parts No.	Q'ty	Life	As of Aug. 2005 Remarks
[1]	Manual feed pickup roller	FL2-3202-000	1	150K	
[2]	Manual feed separation pad	FL2-3201-000	1	150K	
[3]	Devrloping unit	FM2-3286-000	1	150K	
[4]	Transfer roller	FC6-4313-000	1	150K	
[5]	Fixing unit (120V)	FM2-3345-000	1	150K	
	Fixing unit (230V)	FM2-3352-000	1	150K	

⚠

The value is the mean value collected from the results of evaluation. The parts number may change because of changes in design.
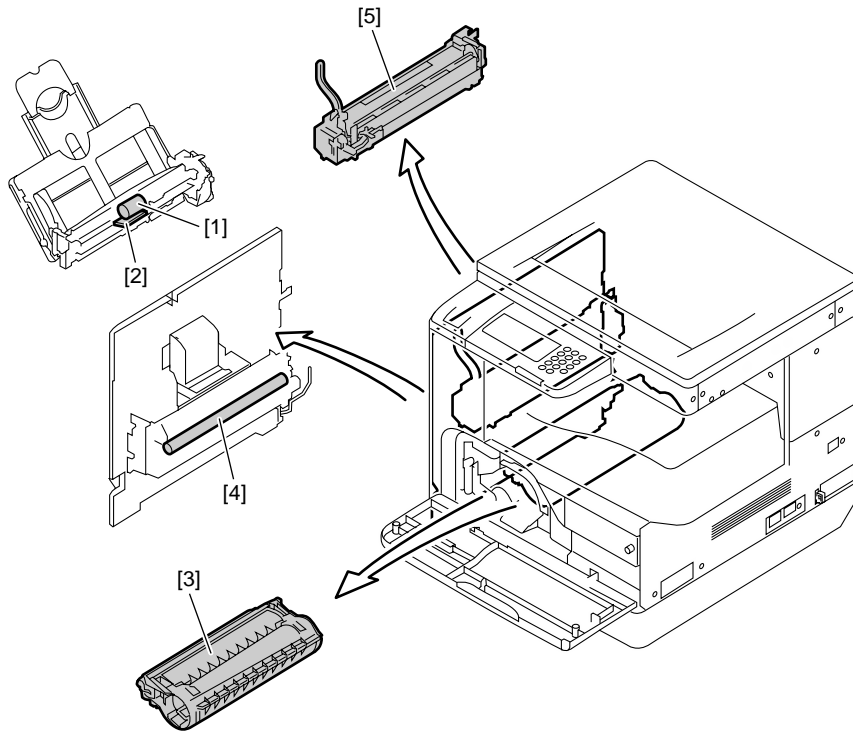
F-1-1

1.3 Scheduled Servicing Basic Procedure

1.3.1 Scheduled Servicing

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

The reader and printer unit does not have items that require scheduled servicing.

⚠

Be sure to clean the copyboard glass and the ADF reading glass during every service visit.

Chapter 2 Standards and Adjustments

2.1 Scanning System

2.1.1 Procedure after Replacing the CIS

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

After replacing the contact image sensor (CIS), go through the following steps to perform inter-channel output correction:
1) Enter the service mode.

Sequentially press the User Mode key "⊗", 2 key, 8 key, and User Mode

key "⊗" on the operation panel.
2) Using the arrow keys on the operation panel, display "TEST MODE".
3) Press the OK key.
4) Press the 2 key. "SCAN TEST" appears.
5) Press the 1 key.

After completion of the above steps, contact sensor output correction will be performed and parameters will be set automatically.

2.2 Image Formation System

2.2.1 Procedure after Replacing the Developing Assembly

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Going through the Developer Idling Mode>

⚠️After replacing the developing assembly, go through the following steps in the developing assembly idle rotation mode before installing the toner cartridge.

1) Plug the power cord into the outlet.
2) Open the front cover.
3) With the front cover open, turn on the main power switch.
4) When a message appears on the operation panel display, press the following keys to enter the service mode:
Additional Functions key > 2 key > 8 key > Additional Functions key
5) Select "#PRINT" using the + or - key, and then press the OK key.
6) Select "#PRINT SW" using the + or - key, and hen press the OK key. Confirm that the following message is displayed:
Message: #PRINT SW 001 00000000
7) Press the following keys and confirm the message:
     # key > 1 key > 1 key
     Message: #PRINT SW 011 00000000
8) Position the cursor to Bit-1 (second from right) using the + or - key, and press the 1 key, and then confirm the following message:
     Message: #PRINT SW 011 00000010
9) Press the OK key. Confirm that "SW 011" changes to "SW 012".
     Message: #PRINT SW 012 00000000
10) Press the Reset key to exit the service mode.
11) Close the front cover. The machine will run in the developer idling mode for about 1 minute.
12) When the machine stops, the idling mode ends.
Install, the toner cartridge following the above-mentioned procedure.

2.3 Electrical Components

2.3.1 Procedure after Replacing the Image Processor PCB

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

After replacing the image processor PCB with a new one, input the all value printed on the service label affixed to the rear cover.
Make the following adjustments:
- Correction of output between CIS channels
1) Enter the service mode.

Sequentially press the User Mode key "⊗", 2 key, 8 key, and User Mode

key "⊗" on the operation panel.
2) Using the arrow keys on the operation panel, display "TEST MODE".
3) Press the OK key.
4) Press the 2 key. "SCAN TEST" appears.
5) Press the 1 key.

After completion of the above steps, contact sensor output correction will be performed and parameters will be set automatically.

- Read position adjustment (Stream reading: Only when the ADF is installed)
1) Enter the service mode.

Press the User Mode key "⊗", 2 key, 8 key, User Mode key "⊗" on the operation panel of the host machine.
2) Using the arrow keys on the operation panel, display "TEST MODE".
3) Press the OK key.
4) Press the 2 key. "SCAN TEST" appears.
5) Press the 3 key. "SHEET POS ADJ" appears.
The optical system starts scanning. Several seconds later, automatic adjustment of the reading position finishes and "OK" appears.

⚠️If automatic adjustment fails, "NG" appears. Perform the following procedure:
Clean the white roller of the DADF and the document glass of the host machine, and then retry auto adjustment.

Chapter 3 Error Code

3.1 Error Code Details

3.1.1 Error Code Details

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-3-1

Display Code	Detail Code	Main Cause/Symptom	Countermeasure
E000	0000	Startup error	
		The temperature detected by the main or sub thermistor does not rise to the specified value during startup control.	- Check the fixing film connector. - Replace the fixing film unit. - Replace the DC controller PCB.
E001	0000	Abnormally high temperature (detected by main thermistor)	
		The main thermistor detected an abnormally high temperature (240 deg C) during temperature control.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the DC controller PCB.
	0001	Abnormally high temperature (detected by sub thermistor)	
		The sub thermistor detected an abnormally high temperature (295 deg C) during temperature control.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the DC controller PCB.
E002	0000	Low temperature during temperature control.	
		The target temperature is not reached during temperature control.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the DC controller PCB.
E003	0000	Abnormally low temperature (detected by main thermistor)	
		After the temperature detected by the main thermistor has reached the specified value, it does not reach the specified value during initial rotation.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the DC controller PCB.
	0001	Abnormally low temperature (detected by sub thermistor)	
		After the temperature detected by the sub thermistor has reached the specified value, it does not reach the specified value during initial rotation.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the DC controller PCB.
E007	0000	Fixing film sensor failure	
		The fixing film sensor is faulty.	- Check the connector of the fixing film sensor. - Replace the fixing film sensor. - Replace the DC controller PCB.
E010	0000	Main motor failure	
		The main motor is faulty.	- Check the connector of the main motor. - Replace the main motor. - Replace the DC controller PCB.
E019	0000	Waste toner full detection	
		The waste toner full state was detected.	Replace the drum unit.
	0001	Waster toner full detection sensor is faulty.	
		The waste toner full state was detected continuously for five or more seconds while the main motor was turning.	- Check the connector of the waster toner full sensor. - Replace the waste toner full sensor. - Replace the DC controller PCB.
E052	0000	Erroneous connection to duplex unit	
		Disconnection of the duplex unit was detected after power-on, detection of normal connection to the duplex unit, and start of communication.	- Check the connectors of the duplex unit and DC controller PCB. - Replace the duplex controller PCB. - Replace the DC controller PCB.
E100	0000	BD detection PCB failure	
		The BD detection PCB is faulty.	- Check the connector of the BD detection PCB. - Replace the laser scanner unit. - Replace the DC controller PCB.
E197	0000	Printer engine communication error	
		Erroneous communication between the DC controller PCB and image processor PCB was detected.	- Check the connectors of the DC controller PCB and image processor PCB. - Replace the DC controller PCB for normal connection. - Replace the image processor PCB.
E716	0000	Erroneous communication with optional cassette	
		Disconnection of the optional cassette was detected after power-on, detection of normal connection to the optional cassette, and start of communication.	- Check the connectors of the optional cassette PCB and DC controller PCB. - Replace the optional cassette PCB for normal connection. - Replace the DC controller PCB.

Display Code	Detail Code	Main Cause/Symptom	Countermeasure
E719	0000	Erroneous communication with card reader (serial communication)	
		- Disconnection from the card reader has been detected since communication started after confirmation of normal connection to the card reader (after power-on). - A serial communication error has occurred. (The serial communication error cannot be recovered.)	- Check the connectors of the card reader and image processor PCB. - Replace the card reader for normal connection. - Replace the image processor PCB.
	0002	Erroneous communication with coin vendor (serial communication)	
		- Disconnection from the coin vendor has been detected since communication started after confirmation of normal connection to the coin vendor (after power-on). - A serial communication error has occurred. (The serial communication error cannot be recovered.)	- Check the connection between the image processor PCB and serial PCB. - Check the connectors of the serial PCB and coin vendor for normal connection. - Replace the serial PCB. - Check the coin vendor. - Replace the image processor PCB.
E733	0000	Erroneous communication between controller and printer	
		Cannot communicate with the printer at startup.	- Check the connectors of the DC controller PCB and image processor PCB for normal connection. - Check the power supply of the printer (Check whether initialization is performed at startup). - Replace the DC controller PCB or image processor PCB.
E736	0000	CCU communication error	
		The installed modem PCB is incompatible.	- Check the connectors of the image processor PCB and modem. - Replace the modem PCB. - Replace the image processor PCB.
E739	0000	Erroneous communication between controller and network board	
		The installed network board is incompatible.	- Check the connectors of the image processor PCB and LAN PCB for normal connection. - Replace the LAN PCB. - Replace the image processor PCB.
E805	0000	Fan failure	
		The fan is faulty.	- Check the fan connector. - Replace the fan. - Replace the DC controller PCB.
E808	0000	Fixing drive circuit failure	
		- The heater does not turn on. - A fixing drive motor failure was detected.	- Check the connector of the fixing film unit. - Replace the fixing film unit. - Replace the fixing drive motor. - Replace the DC controller PCB. - Replace the power supply PCB.

3.2 Jam Code

3.2.1 Jam Codes (Related to Printer Unit)

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

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Code	Name	Sensor No.	Description
0104	Delay jam in paper pickup section	SR209	The registration sensor cannot detect the leading edge of paper from the moment paper pickup starts to the moment the jam detection time is reached.
0208	Stationary jam in paper pickup section	SR209	The registration sensor cannot detect the no paper status specified time before the leading edge of the picked up paper reaches this sensor.
010c	Delay jam in deliver section	SR202, SR203, SR209	- The fixing delivery sensor cannot detect presence of paper within the specified time after turning on of the registration clutch. - The fixing delivery sensor detected absence of paper within the specified time after the sensor had detected presence of paper within the specified time after turning on of the registration clutch. - The No.1 delivery sensor cannot detect presence of paper within the specified time after turning on of the fixing delivery sensor.
0210	Stationary jam in delivery section	SR202, SR203	- The fixing delivery sensor cannot detect absence of paper within the specified time after turning off of the registration clutch. - The fixing delivery sensor cannot detect absence of paper within the specified time after the sensor detected the leading edge of paper. - The No.1 delivery sensor cannot detect absence of paper within the specified time after the sensor detected the leading edge of paper.
0214	Stationary jam in machine	SR202, SR203, SR209	Paper was detected in the paper transport path during initial rotation, during automatic delivery, at the end of cleaning, or at reception of an emergency stop command.

Code	Name	Sensor No.	Description
1118	Door open jam	SR202, SR203, SR209, SW2, SW3	The door was opened when there was printing paper in the transport path.

3.2.2 Jam Codes (Related to Finisher)

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-3-3

Code	Name	Sensor No.	Description
0130	Delayed feed jam	PI5	The inlet sensor is not turned on within the specified time after reception of a paper ejection signal from the host machine.
0231	Staying paper jam	PI5	The inlet sensor is not turned off even if paper is fed by the specified distance after the leading edge of the paper from the host machine has passed through the sensor.
0033	Stack ejection jam	PI1	When a paper stack is ejected, the HP sensor is not turned off within the specified time.
0035	Staple jam	Stapler HP sensor (built in stapler)	The stapler HP sensor was turned off once after start of stapler operation, but the HP has not been reached within the specified time.
1036	Power-on jam	PI5	The inlet sensor detected paper at power-on.
1137	Door open jam	SW1	The front cover switch detected opening of the front cover during standby or copy operation.

3.2.3 Jam Codes (Related to ADF)

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-3-4

Code	Name	Sensor No.	Description
0000	Unknown jam	-	Other errors
0007	Initial stationary	PI6,PI7,PI8	Paper is detected in the transport path before the DADF starts initial operation.
0008	Read sensor delay	PI7,PI8	The read sensor does not detect paper when the paper has been fed by the predetermined distance since reception of a pickup request.
0009	Read sensor stationary	PI7	The trailing edge of paper is not detected when the paper has been fed by the predetermined distance since detection of it by the read sensor.
000a	Paper absence (Pull out the document.)	PI11	The Document set sensor has been held off since start of pickup.
000c	Delivery reversal sensor delay	PI6,PI7	The delivery reversal sensor does not detect paper since the paper has been fed by the predetermined distance since the read sensor was turned on.
000d	Delivery reversal sensor stationary	PI6	The trailing edge of paper is not detected when the paper has been fed by the predetermined distance since the delivery reversal sensor detected the paper.
000e	ADF cover open	PI10	The feeder cover was opened during operation (of the drive system).
000f	User ADF open	sensor of the reader unit	The ADF was opened during operation (of the drive system).
0010	Pickup NG	-	The registration sensor has been held off since paper pickup started.

3.2.4 Jam Codes (Related to Duplex Unit)

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T-3-5

Code	Name	Sensor No.	Description
0120	Delay jam at duplex paper sensor 1	SR1002	The duplex paper sensor 1 does not turn on within the specified time after the delivery sensor on the main unit side turns on.
0124	Delay jam at duplex paper sensor 2	SR1003	The duplex paper sensor 2 does not turn on within the specified time after the duplex reverse motor starts.
0221	Stationary jam at duplex paper sensor 1	SR1002	- The duplex paper sensor 1 does not turn off when the specified time has lapsed since the duplex paper sensor 2 turned on.
			- The duplex paper sensor 1 does not turn off when the paper with a longitudinal length of 280 mm reaches the standby position (about 90 mm from the duplex paper sensor 2).
0228	Stationary jam at duplex paper sensor 2	SR1003	The duplex paper sensor 2 does not turn off when the specified time has lapsed since the feed motor started.

3.2.5 Jam Codes (Related to Inner 2-way Tray)

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-3-6

Code	Name	Sensor No.	Description
010e	Delay jam at No.2 delivery section	SR1101	The No.2 delivery sensor does not detect presence of paper within the specified time after turning on of the fixing delivery sensor.

Code	Name	Sensor No.	Description
0212	Stationary jam at No.2 delivery section	SR1101	Absence of paper is not detected within the specified time after turning on of the No.2 delivery sensor.

Chapter 4 User Mode Items

4.1 User Mode Items

4.1.1 Common Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. DEFAULT SETTINGS	COPY(*), FAX
2. AUTO CLEAR SET.	INITIAL FUNCTION(*), SELECTED FUNCTION
3. AUDIBLE TONES	ENTRY TONE: ON (volume 1(*) to 3), OFF
	ERROR TONE: ON (volume 1(*) to 3), OFF
	TX JOB DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)
	RX JOB DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)
	SCAN DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)
	PRINT DONE TONE: ERROR ONLY (volume 1(*) to 3), OFF, ON (volume 1(*) to 3)
4. TONER SAVER MODE	OFF(*), HIGH, LOW
5. PRINTER DENSITY	1 to 9 (5(*))
6. AUTO DRAWER SELCT	COPY: DRAWER 1 (ON(*), OFF), DRAWER 2 (ON(*), OFF), DRAWER 3 (ON(*), OFF), DRAWER 4 (ON(*), OFF), STACK BYPASS (OFF(*), ON)
	PRINTER: DRAWER 1 (ON(*), OFF), DRAWER 2 (ON(*), OFF), DRAWER 3 (ON(*), OFF), DRAWER 4 (ON(*), OFF)
	FAX: DRAWER 1 (ON(*), OFF), DRAWER 2 (ON(*), OFF), DRAWER 3 (ON(*), OFF), DRAWER 4 (ON(*), OFF), STACK BYPASS (OFF(*), ON)
	OTHER: DRAWER 1 (ON(*), OFF), DRAWER 2 (ON(*), OFF), DRAWER 3 (ON(*), OFF), DRAWER 4 (ON(*), OFF), STACK BYPASS (OFF(*), ON)
7. REG. PAPER TYPE	DRAWER 1: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND
	DRAWER 2: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND
	DRAWER 3: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND
	DRAWER 4: PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, BOND
8. ENERGY IN SLEEP	LOW(*), HIGH
9. TRAY DESIGNATION	TRAY A: COPY (ON(*), OFF), PRINTER (ON(*), OFF), FAX (ON(*), OFF), OTHER (ON(*), OFF)
	TRAY B: COPY (ON(*), OFF), PRINTER (ON(*), OFF), FAX (ON(*), OFF), OTHER (ON(*), OFF)
10. BYPASS STD SET	OFF(*), ON: PAPER SIZE (A4, A4R, A3, B4, B5R, B5, A5R, A5, 11 x 17, LGL, LTRR, LTR, STMTR, STMT, EXECUTIV, COM10, MONARCH, DL, ISO-C5, ISO-B5, FREESIZE), REG. PAPER TYPE (PLAIN PAPER, COLOR, RECYCLED, HEAVY PAPER 1, HEAVY PAPER 2, HEAVY PAPER 3, BOND, TRANSPARENCY, LABELS, ENVELOPE)
11. PAPER FEED SWITCH	STACK BYPASS (SPEED PRIORITY(*), PRINT SIDE), DRAWER 1 (SPEED PRIORITY(*), PRINT SIDE), DRAWER 2 (SPEED PRIORITY(*), PRINT SIDE), DRAWER 3 (SPEED PRIORITY(*), PRINT SIDE), DRAWER 4 (SPEED PRIORITY(*), PRINT SIDE)
12. DISPLAY LANGUAGE	ENGLISH(*), FRENCH, SPANISH, GERMAN, ITALIAN, DUTCH, FINNISH, PORTUGUESE, NORWEGIAN, SWEDISH, DANISH, SLOVENE, CZECH, HUNGARIAN, RUSSIAN, TURKISH, GREEK, ESTONIAN, ROMANIAN, SLOVAK, CROATIAN, BULGARIAN, CATALAN, POLISH
13. ADF DIRTY ERROR	ON(*), OFF
14. INIT. COMMON SET.	OFF(*), ON

*: Factory default

4.1.2 Copy Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. IMAGE DIR PRIORTY	OFF(*), ON
2. AUTO ORIENTATION	ON(*), OFF
3. STANDARD SETTINGS	IMAGE QUALITY: TEXT/PHOTO(*), TEXT, PHOTO
	DENSITY: AUTO(*), MANUAL (-LT - DK+: 9 steps, 5)
	ZOOM RATIO: PRESET RATIO (DIRECT 100%(*), 141% A4->A3, 200% MAX., 50% MIN., 70% A3->A4), MANUAL
	COPIES: 1(*) to 99
	AUTO COLLATE: OFF(*), COLLATE, STAPLE
	TWO-SIDED: OFF(*), 1 > 2-SIDED, 2 > 2-SIDED, 2 > 1-SIDED, BOOK > 2-SIDED
	FRAME ERASE: OFF(*), ORG. FRAME ERASE, BOOK FRAME ERASE, BINDING HOLE
	2-PAGE SEPARATION: OFF(*), ON
	PAPER SELECT: AUTO(*), DRAWER 1, DRAWER 2, DRAWER 3, DRAWER 4
4. SHARPNESS	1 to 9 (5(*))
5. PAPER SIZE GROUP	A(*), AB, INCHES
6. MM/INCH ENTRY	mm(*), INCHES
7. INIT. COPY SET.	OFF(*), ON

*: Factory default

4.1.3 FAX Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. USER SETTINGS	UNIT TELEPHONE #
	UNIT NAME
	TX TERMINAL ID: ON (PRINTING POSITION: OUTSIDE IMAGE(*), INSIDE IMAGE, TELEPHONE # MARK: FAX(*), TEL), OFF
	SCANNING DENSITY: -LT - DK+ 9 steps (5(*))
	TEL LINE TYPE: TOUCH TONE(*), ROTARY PULSE
	VOLUME CONTROL: MONITOR VOL. CTRL (0 - 3 1(*)))
	STANDARD SETTINGS: SCAN DENSITY (STANDARD(*), DK, LT), IMAGE QUALITY (STANDARD(*), FINE, PHOTO, SUPER FINE, ULTRA FINE), DIRECT TX (OFF(*), ON), STAMP DOCUMENT (OFF(*), ON)
	INIT. FAX STD SET: OFF(*), ON
2. TX SETTINGS	ECM TX: ON(*), OFF
	PAUSE TIME: 1 to 15 (4(*)) SEC.
	AUTO REDIAL: ON (REDIAL TIMES, REDIAL INTERVAL, TX ERROR REDIAL)(*), OFF
	TIME OUT: ON(*), OFF
	STAMP DOCUMENT: DIRECT&MEMORY TX(*), DIRECT TX
	DIALING LINE CHCK: ON(*), OFF
	ROTATE TX: ON(*), OFF
3. RX SETTINGS	ECM RX: ON(*), OFF
4. PRINTER SETTINGS	SELECT DRAWER: SWITCH A (ON(*), OFF), SWITCH B (ON(*), OFF), SWITCH C (ON(*), OFF), SWITCH D (ON(*), OFF)
	RECEIVE REDUCTION: ON (RECEIVE REDUCTION, REDUCE DIRECTION)(*), OFF
	TWO-SIDED PRINT: OFF(*), ON
	CONT. PRINTING: RX TO MEMORY(*), KEEP PRINTING

*: Factory default

4.1.4 Address Book Set.

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. 1-TOUCH SPD DIAL	Up to 60 destinations can be registered: TEL NUMBER ENTRY, NAME, OPTIONAL SETTING
2. CODED SPD DIAL	Up to 140 destinations can be registered: TEL NUMBER ENTRY, NAME, OPTIONAL SETTING
3. GROUP DIAL	Up to 199 destinations can be registered: TEL NUMBER ENTRY, NAME

*: Factory default

4.1.5 Printer Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. DEFAULT PAPERSIZE	A4, A3, B4, B5, 11X17, LGL, LTR, STMT, EXECUTIV, COM10, MONARCH, DL, ISO-C5, ISO-B5
2. DEFAULT PAPERTYPE	PLAIN PAPER(*), COLOR, RECYCLED, HEAVY PAPER 1, HEAVY PAPER 2, HEAVY PAPER 3, BOND, TRANSPARENCY, LABELS, ENVELOPE
3. COPIES	1(*) to 999
4. 2-SIDED PRINTING	OFF(*), ON
5. PRINT QUALITY	IMAGE REFINEMENT: ON(*), OFF
	DENSITY: 1 to 9 (5(*))
	TONER SAVER: OFF(*), ON
6. PAGE LAYOUT	BINDING: LONG EDGE(*), SHORT EDGE
	MARGIN: mm (-50.0 mm to +50.0 mm; 0.0 mm(*)), INCHES (-01.90 INCHES to 01.90 INCHES; 00.00 INCHES(*))
7. ERROR TIME OUT	ON (5(*) to 300 SEC), OFF
8. COLLATE	OFF(*), COLLATE, OFFSET+COLLATE, OFFSET+GROUP, STAPLE
9. INIT. PRINTER SET	OFF(*), ON

Additional Functions	Available Settings
10. PCL SETTINGS**	ORIENTATION: PORTRAIT(*), LANDSCAPE
	FONT NUMBER: 0(*) to 120
	POINT SIZE: 4.00 to 999.75 point (12.00 point(*))
	PITCH: 0.44 to 99.99 cpi (10.00 cpi(*))
	FORM LINES: 5 to 128 lines (64 lines(*))
	SYMBOL SET: PC8(*), PC850, PC852, PC8DN, PC8TK, PC1004, PIFONT, PSMATH, PSTEXT, ROMAN8, VNINTL, VNMATH, VNUS, WIN30, WINBALT, WINL1, WINL2, WINL5, DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, LEGAL, MATH8, MCTEXT, MSPUBL, PC775
	CUSTOM PAPER: OFF(*), ON (UNIT OF MEASURE, X DIMENSION, Y DIMENSION)
	APPEND CR TO LF: NO(*), YES
	ENLARGE A4: OFF(*), ON
11. RESET PRINTER	OFF(*), ON

*: Factory default

4.1.6 Timer Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. DATE&TIME SETTING	Default setting
2. DATE TYPE SELECT	DD/MM YYYY(*), YYYY MM/DD, MM/DD/ YYYY
3. AUTO SLEEP TIME	ON (3 - 30 (5(*)) MIN. in one-minute increments), OFF
4. AUTO CLEAR TIME	ON (1 - 9 (2(*)) MIN. in one-minute increments), OFF
5. DAYLIGHT SV. TIME	ON(*): BEGIN DATE/TIME (MONTH, WEEK, DAY), END DATE/TIME (MONTH, WEEK, DAY), OFF

*: Factory default

4.1.7 Report Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. SETTINGS	TX REPORT: PRINT ERROR ONLY(*), OUTPUT YES, OUTPUT NO
	RX REPORT: OUTPUT NO(*), PRINT ERROR ONLY, OUTPUT YES
	ACTIVITY REPORT: AUTO PRINT (ON(*), OFF), TX/RX SEPARATE (OFF(*), ON)
2. LIST PRINT	ACTIVITY REPORT
	SPEED DIAL LIST: 1-TOUCH LIST, CODED DIAL LIST, GROUP DIAL LIST
	ADD BOOK DETAILS: 1-TOUCH LIST, CODED DIAL LIST
	USER DATA LIST

*: Factory default

4.1.8 Adjust./Cleaning

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. TRANS. ROLR CLEAN	Press [OK] to start cleaning.
2. DRUM CLEANING	Press [OK] to start cleaning.
3. FIX. UNIT CLEANING	START CLEANING, CLEAN PAPER PRT
4. FEEDER CLEANING	Set 5 sheets in the optional feeder and press [OK].
5. SPECIAL MODE M	MID(*), LOW, HIGH
6. SPECIAL MODE N	OFF(*), ON
7. SPECIAL MODE O	DRAWER (OFF(*), ON), STACK BYPASS (OFF(*), ON)
8. SPECIAL MODE P	OFF(*), ON
9. BOND SP. FIX. MODE	OFF(*), ON
10. FIX. UNIT OFFSET	OFF(*), SPEED PRIORITY 1, SPEED PRIORITY 2
11. AUTO ADF DRTY ADJ	OFF(*), ON
12. MAINTENANCE CODE	OFF(*), ON

*: Factory default

4.1.9 System Settings

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Additional Functions	Available Settings
1. SYS. MANAGER INFO	SYS. MANAGER ID, SYSTEM PASSWORD, SYSTEM MANAGER
2. DEVICE INFO	DEVICE NAME, LOCATION
3. MANAGE DEPT. ID	OFF(*), ON; REGISTER DEPT. ID (PASSWORD, PAGE LIMIT SET., ERASE), PAGE TOTALS (VIEW PAGE TOTALS, CLEAR ALL TOTAL, PRINT LIST), PDL JOBS W/OUT ID (ON(*), OFF)

Additional Functions	Available Settings
4. MANAGE USER ID	OFF(*), ON
5. NETWORK SETTINGS	TCP/IP SETTINGS: IP ADDRESS AUTO. (OFF(*), ON; DHCP, BOOTP, RARP), IP ADDRESS, SUBNET MASK, GATEWAY ADDRESS, USE LPD (ON(*); PORT NO., OFF), RAW SETTINGS (ON(*); PORT NO., USE BIDIRECTIONAL, OFF), USB HTTP (ON(*); PORT NO., OFF), SET IP ADD RANGE (OFF(*), ON), RX MAC ADD SET. (OFF(*), ON)
	SNMP SETTINGS: USE SNMP (ON(*): PORT NO., OFF), COMMUNITY NAME 1, COMMUNITY NAME 2, SNMP WRITABLE 1 (ON(*), OFF), SNMP WRITABLE 2 (ON, OFF(*))
	DEDICATED PORT: ON(*), OFF
	ETHERNET DRIVER: DETECT (AUTO(*), MANUAL), DUPLEX (HALF DUPLEX(*), FULL DUPLEX), ETHERNET TYPE (10 BASE-T(*), 100 BASE-TX), MAC ADDRESS
	VIEW IP ADDRESS: IP ADDRESS, SUBNET MASK, GATEWAY ADDRESS
	STARTUP TIME SET.: 0(*) to 300 SEC.
6. COMMUNICATIONS	TX START SPEED: 2400 to 33600(*) bps
	RX START SPEED: 2400 to 33600(*) bps
	MEMORY LOCK SETTI: OFF(*), ON (PASSWORD, REPORT PRINT, MEMORY RX TIME)
	R-KEY SETTING: PSTN(*), PBX (HOOKING, PREFIX)
7. REMOTE UI	ON(*), OFF
8. ACCESS TO DEST.	RESTRICT NEW ADD. : OFF(*), ON
	FAX DRIVER TX: OFF(*), ON
9. CHECKING THE LOG	ON(*), OFF
10. USE DEVICE USB	OFF(*), ON

*: Factory default

Chapter 5 Outline of Components

5.1 Clutch/Solenoid

5.1.1 List of Clutches/Solenoids

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>
The reader unit has no clutch/solenoid.
<Printer Unit>

T-5-1

Symbol	Name	Function
CL201	Manual pickup clutch	Drives the manual pickup roller.
CL202	Cassette feed clutch	Drives the cassette feed roller.
CL203	Registration clutch	Drives the registration clutch.
SL201	Manual pickup solenoid	Drives the manual pickup roller.
SL202	Cassette 1 pickup solenoid	Drives the cassette 1 pickup roller.

T-5-2

Symbol	Part No.	DC controller PCB
CL201	FK2-1070	J219
CL202	FK2-1068	J211
CL203	FK2-1069	J210
SL201	FK2-1083	J219
SL202	FK2-1082	J209
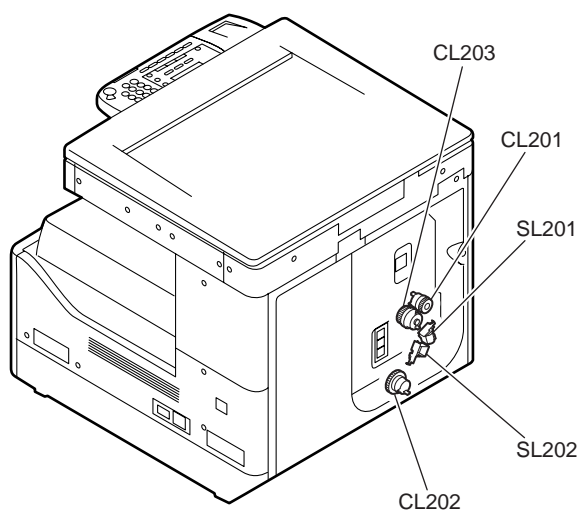
F-5-1

5.2 Motor

5.2.1 List of Motors

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>

T-5-3

Symbol	Name	Function
M401	Reader motor	Drives the carriage.

T-5-4

Symbol	Part No.	Reader controller PCB	Error
M401	FK2-1066	J409	
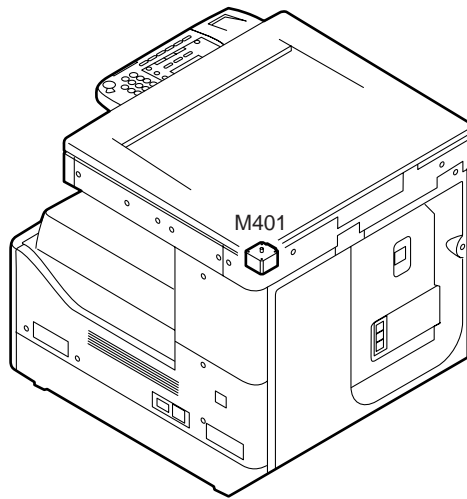
F-5-2

<Printer Unit>

T-5-5

Symbol	Name	Function
M201	Fixing motor	Drives the fixing unit.
M203	Polygon motor	Drives the laser scanner.
M204	Main motor	Drives the main parts of the printer.

T-5-6

Symbol	Part No.	DC controller PCB	Error
M201	FK2-1067	J202	E007, E808
M203	Scanner unit FM2-3383(iR2016J/2020J) FM2-3384(iR2016/2016i/2020/2020i)	J205	
M204	FK2-1080	J208	E010
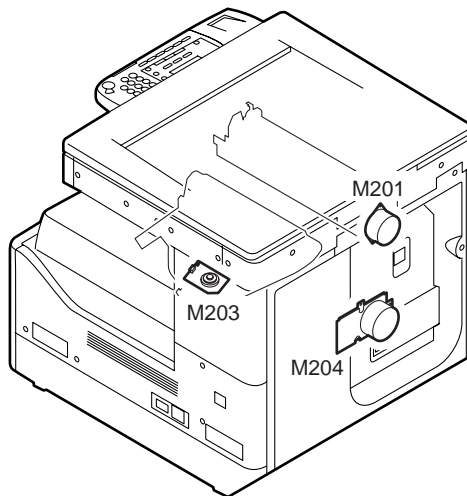
F-5-3

5.3 Fan

5.3.1 List of Fans

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>
The reader unit has no fan.
<Printer Unit>

T-5-7

Symbol	Name	Function
FM1	Heat discharge fan	Cools fixing unit.

T-5-8

Symbol	Part No.	DC controller PCB	Error
FM1	FK2-1073	J219	E805
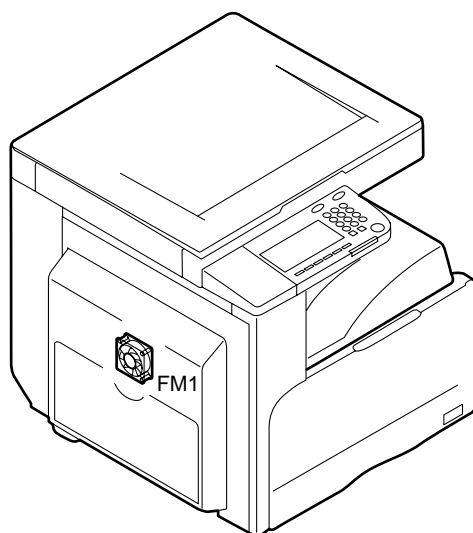
F-5-4

5.4 Sensor

5.4.1 List of Sensors

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>

T-5-9

Symbol	Name	Function
SR401	CIS HP sensor	Detects the CIS home position.
SR402	Copyboard cover open/closed sensor (rear)	Detects opening/closing of the copyboard cover.
SR403	Copyboard cover open/closed sensor (front)	Detects opening/closing of the copyboard cover.
SR404	Original sensor 1	Detects the original size (AB, INCH/A, or INCH/AB).
SR405	Original sensor 2	Detects the original size (AB, A, or INCH/AB).
SR406	Original sensor 3	Detects the original size (all destinations).
SR407	Original sensor 4	Detects the original size (AB or INCH/AB).
SR408	Original sensor 5	Detects the original size (INCH/A).
CIS1	CIS	Reads the original.

T-5-10

Symbol	Part No.	Reader controller PCB	Jam code
SR401	WG8-5696	J406	
SR402	WG8-5696	J405	
SR403	WG8-5696	J405	000f
SR404	FH7-7569	J407	
SR405	FH7-7569	J407	
SR406	FH7-7569	J413	
SR407	FH7-7569	J413	
SR408	FH7-7569	J413	
CIS1	FM2-3369	J408	
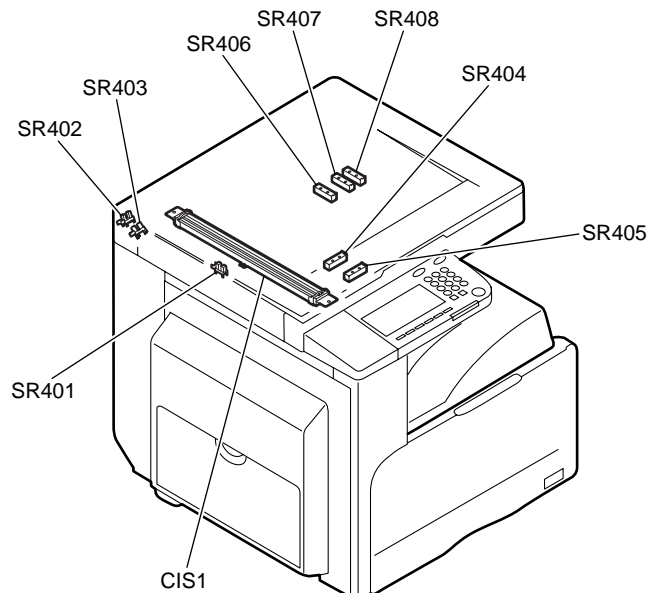
F-5-5

<Printer Unit>

T-5-11

Symbol	Name	Function
SR101	Fixing film speed sensor	Detects the fixing film speed.
SR202	Fixing delivery sensor	Detects fixing delivery.
SR203	No.1 delivery sensor	Detects delivery.
SR204	Cassette 1 paper sensor	Detects presence/absence of cassette 1 paper.
SR206	Waste toner full detection sensor	Detects the waste toner full status.
SR207	No.1 paper full sensor	Detects the No.1 paper full status.
SR208	Manual paper sensor	Detects presence/absence of manually fed paper.
SR209	Registration sensor	Detects registration paper.
TH1	Fixing main thermistor	Detects the fixing heater temperature.
TH2	Fixing sub thermistor	Detects the fixing heater temperature.
TP1	Thermo switch	Cuts off the heater power supply line when an abnormal temperature is detected.

T-5-12

Symbol	Part No.	DC controller PCB	Jam code
SR201	FG3-3501	J217	
SR202	WG8-5696	J217	010c, 0210, 0214, 1118
SR203	WG8-5696	J221	010c, 0210, 0214, 1118
SR204	WG8-5696	J213	
SR206	WG8-5696	J216	
SR207	WG8-5696	J201	
SR208	WG8-5696	J219	
SR209	WG8-5696	J212	0104, 0208, 010c, 0214, 1118

T-5-13

Symbol	Part No.	DC controller PCB	Power supply PCB
TH1,TH2	Fixing film unit	J217	
TP1	FM2-3346(120V) FM2-3353(230V)		J13

SR207
SR203
TH1, TH2, TP1
SR208
SR209
SR204
SR202 SR206
SR101

F-5-6
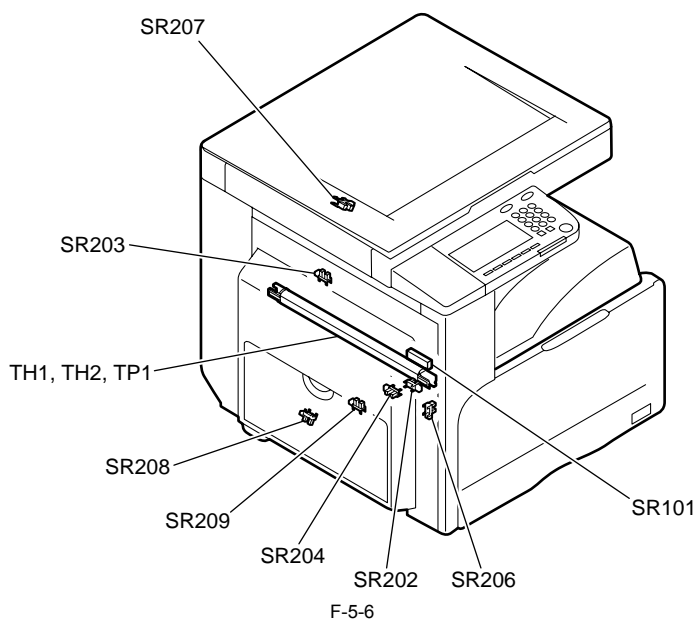
5.5 Switch

5.5.1 List of Switches

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>
The reader unit has no switch.
<Printer Unit>

T-5-14

Symbol	Name	Function
SW2	Front cover switch	Detects opening/closing of the front cover.
SW3	Left door switch	Detects opening/closing of the left door.
SW4	Cassette 1 size detection switch	Detects the cassette 1 paper size.

T-5-15

Symbol	Part No.	DC controller PCB	Power supply PCB
SW2	FM2-4433		J12
SW3	FM2-4433		J12
SW4	WC2-5332	J213	

SW2
SW3 SW4

F-5-7
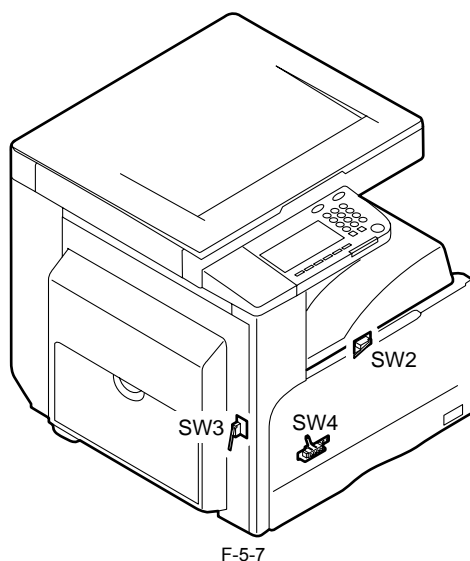
5.6 Lamps, Heaters, and Others

5.6.1 List of Lamps, Heaters, and Others

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

<Reader Unit>

T-5-16

Symbol	Name	Part No.	Function
H3	Reader heater (left)	NPN	Prevents dew condensation on the ADF reading glass.
H4	Reader heater (right)	NPN	Prevents dew condensation on the copyboard glass.
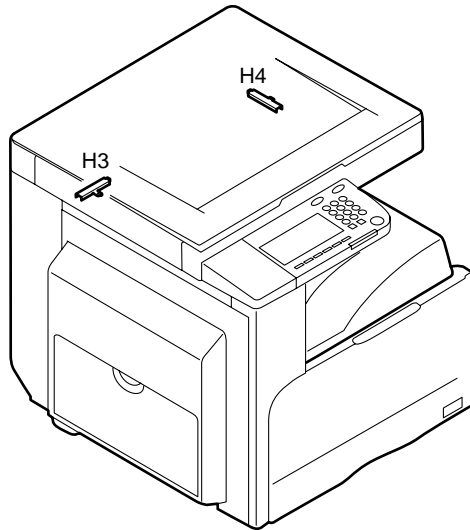
F-5-8

\<Printer unit\>

T-5-17

Symbol	Name	Function
H1	Fixing main heater	Used as the main heater for fixing.
H2	Fixing sub heater	Used as the sub heater for fixing.
H6	Cassette heater	Prevents paper in the cassette from absorbing moisture.
VA1	Varistor	Used as a varistor.
SP1	Speaker	Used as a speaker (for fax unit).

T-5-18

Symbol	Part No.
H1,H2	Fixing film unit FM2-3346(120V) FM2-3353(230V)
H6	FK2-1146(100V) FK2-1088(230V)

T-5-19

Symbol	Part No.	Modem PCB
VA1	FH5-3543	
SP1	FK2-1265	J1203
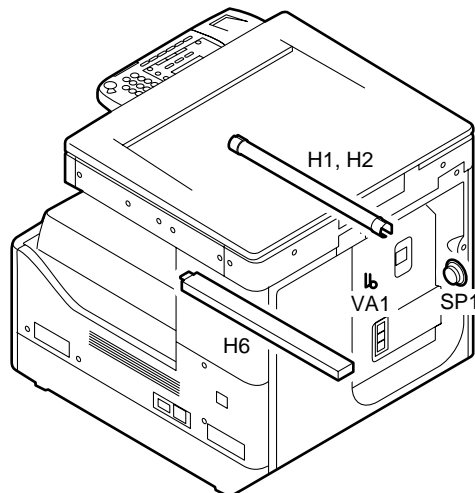
F-5-9

Chapter 6 System Construction

6.1 System Construction

6.1.1 Pickup/ Delivery /Original Handling Accessories System Configuration (iR2020/iR2020J)

iR2020 /

The configuration is as shown in the following figure:
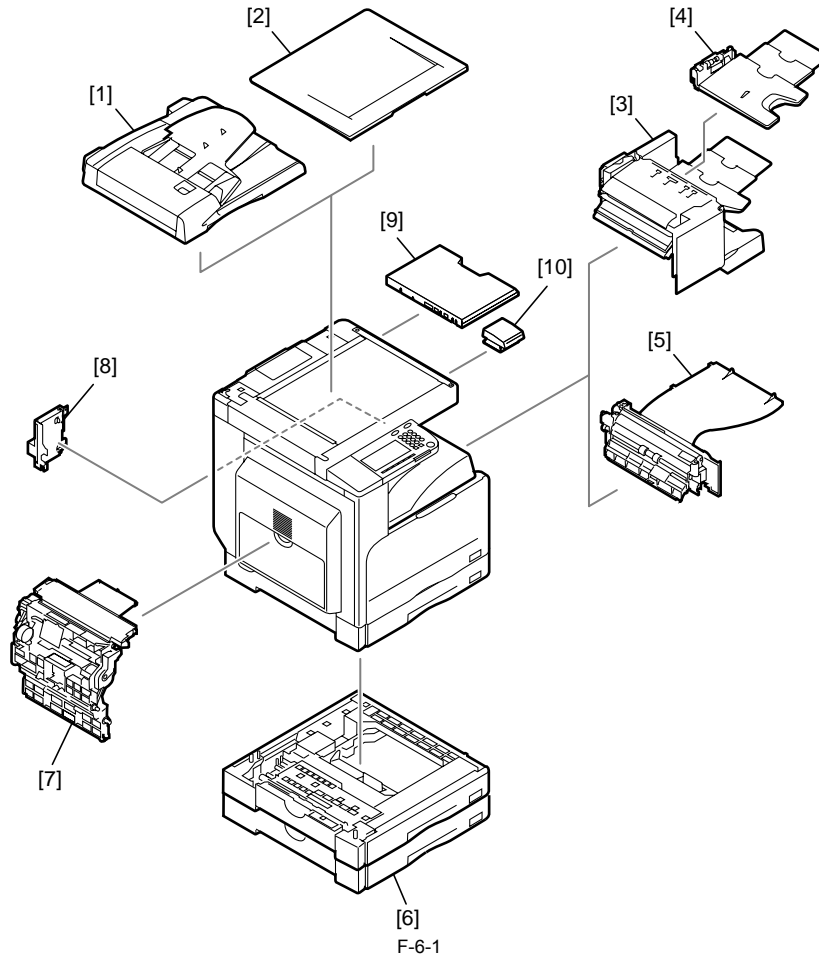
F-6-1

[1]	DADF-P1	
[2]	Platen Cover Type J	*1
[3]	Finisher-U1	
[4]	Additional Finisher Tray-C1	
[5]	Inner 2-way Tray-E1	
[6]	Cassette Feeding Module-K1	
[7]	Duplex Unit-A1	
[8]	Power Supply Kit-Q1	*2
[9]	Document Tray-J1	
[10]	Card Reader-E1	

*1: This accessory comes standard with the models for Asia excluding Taiwan and the models for some Latin American countries.
*2: This accessory is required when the Finisher-U1, Inner 2-way tray-E1, Cassette feeding module-K1, or Duplex unit-A1 is installed. This accessary comes standard with the iR2020 for North America, Latin America, and Asia.

6.1.2 Pickup/ Delivery /Original Handling Accessories System Configuration (iR2016/iR2016J)

iR2016J / iR2016

The configuration is as shown in the following figure:
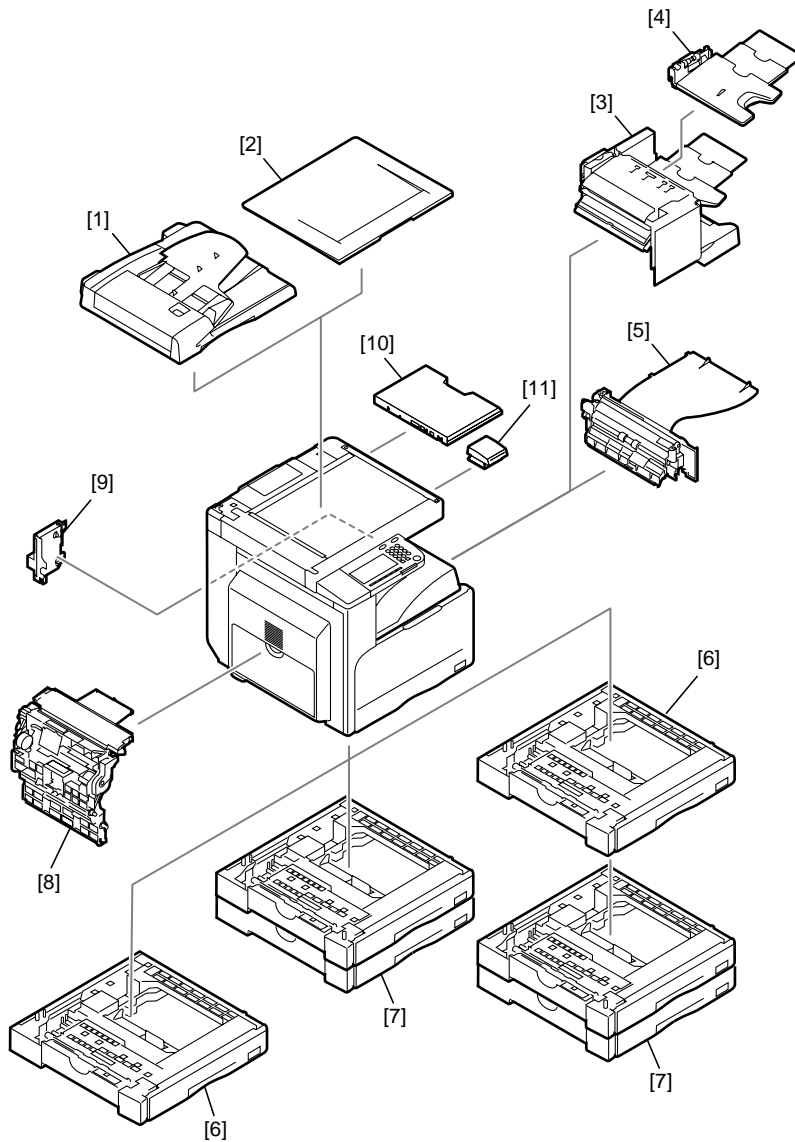
F-6-2

[1]	DADF-P1	
[2]	Platen Cover Type J	*1
[3]	Finisher-U1	
[4]	Additional Finisher Tray-C1	
[5]	Inner 2-way Tray-E1	
[6]	Cassette Feeding Module-J1	*2
[7]	Cassette Feeding Module-K1	*2
[8]	Duplex Unit-A1	
[9]	Power Supply Kit-Q1	*3
[10]	Document Tray-J1	
[11]	Card Reader-E1	

*1: This accessory comes standard with the models for Asia excluding Taiwan and the models for some Latin American countries.
*2: A Cassette feeding module-J1 can be placed on the Cassette feeding module-K1 to use these cassette units as a 3-stage cassette unit.
*3: This accessory is required when the Finisher-U1, Inner 2-way tray-E1, Cassette feeding module-K1 or Duplex unit-A1 is installed. This accessory comes standard with the iR2016 for North America, Latin America and Asia.

6.1.3 Reader Heater/ Cassette Heater System Configuration

iR2016J / iR2016 / iR2020 /

The configuration is as shown in the following figure:

F-6-3
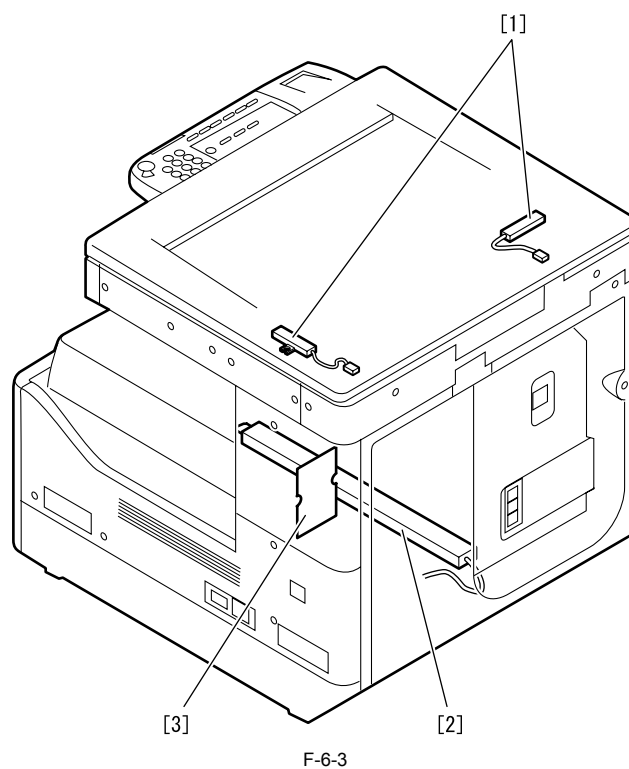
[1]	Reader Heater	*1
[2]	Cassette Heater	*1
[3]	Heater PCB	

*1: To operate the heaters, a heater PCB is required.

6.1.4 Printing/Transmitting Accessories System Configuration (iR2020J/iR2016J)

iR2016J /

The iR202J/iR2016J does not allow the print function and the transmission function to be added.

6.1.5 Printing/Transmitting Accessories System Configuration (iR2020/iR2016)

iR2016 / iR2020

The configuration is as shown in the following figure:

F-6-4
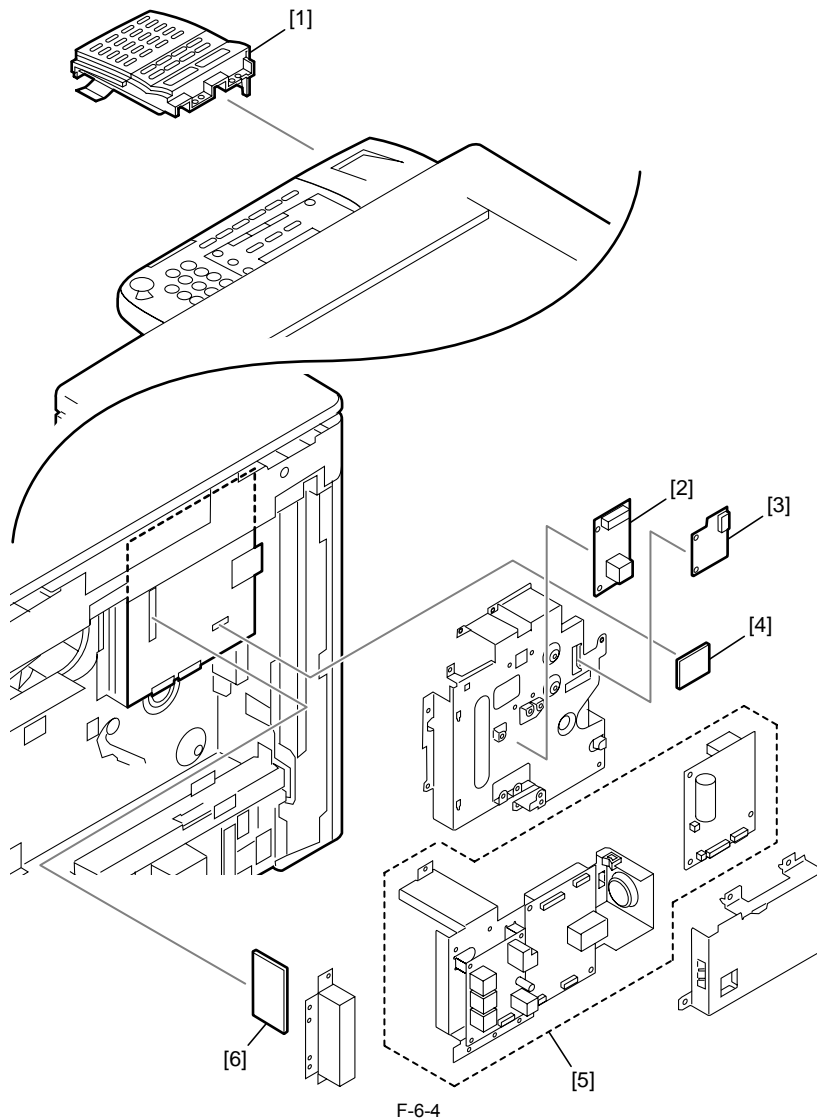
[1]	FAX Panel-A1	*1
[2]	UFRII LT Printer Kit-J2	
[3]	Serial Interface Board-A1	
[4]	PCL Printer Kit-J1	*2
[5]	Super G3 FAX Board-T1	*1
[6]	iR 256MB Expansion RAM-D1	

*1: To make the FAX feature effective, a FAX panel and a super G3 FAX board are required.
*2: The PCL printer kit contains a 256MB expansion RAM.

6.1.6 Functions of the Printing/Transmission Functions (iR2020/iR2016)

iR2016 / iR2020

The following is a brief explanation of the functions expected of the accessories; for details, see the chapters that follow:

UFR II print function (Resolution: 600dpi)	==>	UFRII LT Printer Kit-J2
UFR II print function (Resolution: 1200dpi)	==>	UFRII LT Printer Kit-J2
		iR 256MB Expansion RAM-D1
PCL print function	==>	PCL Printer Kit-J1
FAX function	==>	Super G3 FAX Board-T1
		FAX Panel-A1
Coin vender function	==>	Serial Interface Board-A1

6.2 Product Specifications

6.2.1 Product Specifications

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

Copyboard	stream reading, fixed reading
Body	desktop
Light source type	LED array (CIS)
Photosensitive medium	OPC drum (30-mm dia.)
Image reading method	CCD (CIS)
Reproduction method	indirect electrostatic
Exposure method	by laser light
Charging method	by AC charging roller
Development method	1-component toner projection
Transfer method	by transfer roller
Separation method	by curvature + static eliminator
Cassette pickup method	retard
Multifeeder pickup method	dual processing
Drum cleaning method	by cleaning blade
Fixing method	on-demand
Delivery method	face-down
Reproduction ratio	50Åì to 200Åì
Warm-up time	approx. 13sec
Image margin (leading edge)	3.0 -/+1.5 mm
Image margin (trailing edge)	3.0 -/+2.0 mm
Image margin (left/right)	left edge: 3.0 -/+2.0 mm right edge: 0.5 mm or more
Non-image width (leading edge)	3.0 -/+2.0 mm
Non-image width (trailing edge)	3.0 -/+2.0 mm
Non-image width (left/right)	3.0 -/+2.0 mm
Number of gradations	256 gradations
Reading resolution	600 x 600 dpi
Printing resolution	iR2020/iR2016: 1200 dpi x 1200 dpi iR2020J/iR2016J: 600dpi x 600 dpi
First print time	Book mode: 7.9 sec or less ADF mode: 13.5 sec or less
Cassette capacity	250sheets (80 g/m2)
Multifeeder tray capacity	100 sheets (80 g/m2) (B4/LGL or less, 64 g/m2) 80 sheets (80 g/m2) (B4/LGL or less, 80 g/m2) 50 sheets (B4/LGL or more, 64 g/m2, 80 g/m2) 50 sheets (heavy paper (105 to 128 g/m2), OHP) 10 sheets (envelope) 1 sheet (label) 40 sheets (post card)
Continuous reproduction	1 to 99 sheets
Toner type	magnetic negative toner
Original type	sheet, book
Maximum original size	A3/LDR
Original size detection function	by reflection type sensor (iR2020 series only)
Sleep mode	yes
Option	See the system configuration chart.
Operating environment (temperature range)	15 to 27.5 deg C
Operating environment (humidity range)	25% to 75%
Operating environment (atmospheric pressure)	0.6 to 1.0 atm
Noise	iR2020 series: 66.0 dB or less iR2016 series: 64.6 dB or less
Power supply rating	120/230 V
Power consumption (maximum)	120V model: 1550 W or less 230V model: 1600 W or less
Power consumption	120V model: standby: 21 Wh (reference only) / continuous printing: 470 Wh (reference only) 230V model: standby: 22 Wh (reference only) / continuous printing: 500 Wh (reference only)
Ozone	max.: 0.02 ppm or less

Dimensions	iR2020 series: 622 mm x 633.4 mm x 665.4 mm (WxDxH)
	iR2016 series: 622 mm x 633.4 mm x 580.4 mm (WxDxH)
Weight	iR2020 series: approx. 46 kg
	iR2016 series: approx. 39.6 kg

6.3 Function List

6.3.1 Printing Speed (iR2020/iR2020J)

iR2020 /

T-6-1

| | Paper size | Single-sided | |
		Casette feed	Manual feed
Plain paper	A4	20	20
	A5	23	23
	A5R	-	13
	B5	20	20
	B5R	12	12
	A4R	11	11
	B4	9	9
	A3	10	10
	STMT	15	15
	STMTR	-	13
	EXE	-	20
	LTR	20	20
	LTRR	11	11
	LGL	10	10
	LDR	10	10
Heavy paper 1/2	A4	12(10)	12(10)
(Heavy paper 3)	A5	13(11)	13(11)
	A5R	-	11(7)
	B5	12(10)	12(10)
	B5R	9(6)	9(6)
	A4R	10(8)	10(8)
	B4	8(6)	8(6)
	A3	8(7)	8(7)
	STMT	11(7)	11(7)
	STMTR	-	9(6)
	EXE	-	12(10)
	LTR	11(10)	11(10)
	LTRR	9(8)	9(8)
	LGL	8(5)	8(5)
	LDR	8(7)	8(7)
Bond paper	A4	7	7
	A5	5	5
	A5R	-	4
	B5	6	6
	B5R	4	4
	A4R	4	4
	B4	5	5
	A3	5	5
	STMT	4	4
	STMTR	-	4
	EXE	-	6
	LTR	7	7
	LTRR	4	4
	LGL	3	3
	LDR	5	5
OHP	A4	-	20
	LTR	-	20
Envelope	Monarch	-	4
	COM10	-	4
	ISO-B5	-	4
	ISO-C5	-	4
	DL	-	4

Supplement:
- The above copy speed does not change if magnification is changed.

- The above copy speed does not change irrespective of whether paper is supplied from the upper/lower cassette, the manual feed tray, or from the cassette feeding module.
- The copy speed may become down when the copies make continuously one minutes or more with the narrow width paper. The slowdown is reduced with the following user mode. User Mode: Additional Functions > Adjust/Cleaning > Spesial Mode P > ON

6.3.2 Printing Speed (iR2016/iR2016J)

iR2016J / iR2016

T-6-2

	Paper size	Single-sided	
		Cassette feed	Manual feed
Plain paper	A4	16	16
	A5	23	23
	A5R	-	13
	B5	20	20
	B5R	12	12
	A4R	11	11
	B4	9	9
	A3	10	10
	STMT	15	15
	STMTR	-	13
	EXE	-	20
	LTR	16	16
	LTRR	11	11
	LGL	10	10
	LDR	10	10
Heavy paper 1/2 (Heavy paper 3)	A4	12(10)	12(10)
	A5	13(11)	13(11)
	A5R	-	11(7)
	B5	12(10)	12(10)
	B5R	9(6)	9(6)
	A4R	10(8)	10(8)
	B4	8(6)	8(6)
	A3	8(7)	8(7)
	STMT	11(7)	11(7)
	STMTR	-	9(6)
	EXE	-	12(10)
	LTR	11(10)	11(10)
	LTRR	9(8)	9(8)
	LGL	8(5)	8(5)
	LDR	8(7)	8(7)
Bond paper	A4	7	7
	A5	5	5
	A5R	-	4
	B5	6	6
	B5R	4	4
	A4R	4	4
	B4	5	5
	A3	5	5
	STMT	4	4
	STMTR	-	4
	EXE	-	6
	LTR	7	7
	LTRR	4	4
	LGL	3	3
	LDR	5	5
OHP	A4	-	16
	LTR	-	16
Envelope	Monarch	-	4
	COM10	-	4
	ISO-B5	-	4
	ISO-C5	-	4
	DL	-	4

Supplement:
- The above copy speed does not change if magnification is changed.
- The above copy speed does not change irrespective of whether paper is supplied from the cassette, the manual feed tray, or from the cassette feeding module.
- The copy speed may become down when the copies make continuously one minutes or more with the narrow width paper. The slowdown is reduced with the following user mode. User Mode: Additional Functions > Adjust/Cleaning > Spesial Mode P > ON

6.3.3 Types of Paper

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

T-6-3

Type		Paper size	Source	
			Manual Feed Tray	**Cassette**
Plain paper, eco paper, recycled paper (64-90g/m2)		A3, B4, A4, A4R, B5, B5R, A5, LDR, LGL, LTR, LTRR, STMT, 8K, 16K	Yes	Yes
Special paper	Heavy paper (90-128g/m2)	Width: 95mm-297mm Length: 148mm-432mm	Yes	No
	OHP	A4, LTR	Yes	No
	Postcard	Postcard A6R modified	Yes	No
	4-plane postcard	A4 modified	Yes	No
	Label paper	A4, B4, LTR	Yes	No
	3-hole paper	same as plain	Yes	Yes
	Envelope	Com10, Monarch, DL, ISO-C5, ISO-B5	Yes	No

Chapter 7 Upgrading

7.1 Upgrading

7.1.1 Overview of Upgrade

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i

This machine and options can be upgraded by downloading system software programs from the personal computer (hereafter called as the PC) in which a service support tool (hereafter called SST) has been loaded.
System software programs and upgrade tools are listed in the following table:

T-7-1

Type	System software type	Upgrade tool	Remarks
		SST	
Main unit	System (main controller)	Yes	The main controller also controls the reader.
	Boot (boot program)	Yes	
Option	PCL (PCL printer kit-J1)	Yes	
	Fin_U1 (Finisher-U1)	Yes	Dedicated service tool (Downloader PCB: FY9-2034)

7.1.2 Overview of Service Support Tool

iR2016J / iR2016 / iR2020 / / iR2016i / iR2020i
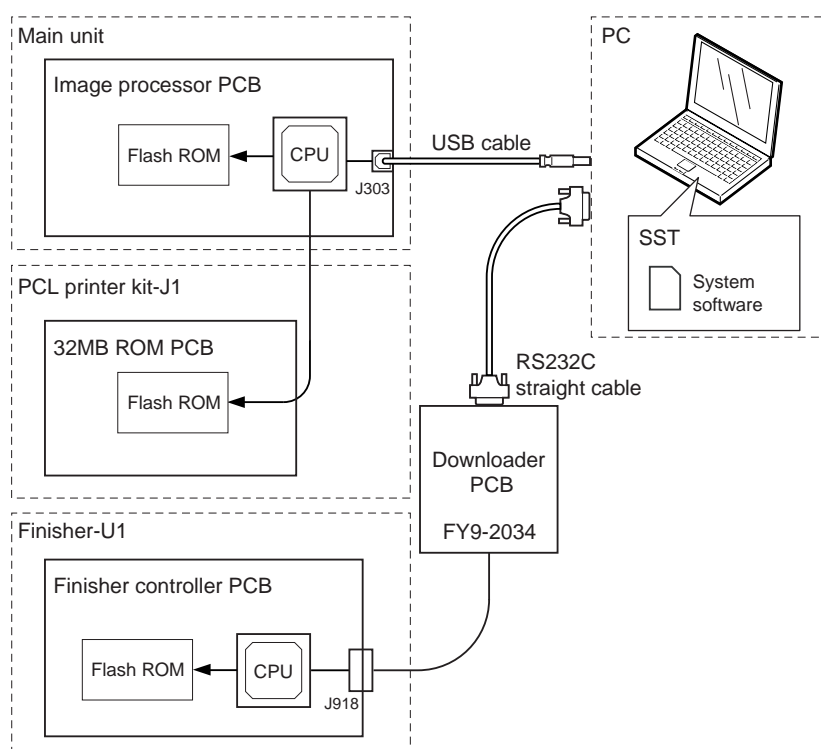
F-7-1

When using the SST, select "#DOWNLOAD" in the service mode to place the main unit in the download mode. (The finisher need not enter the download mode.)

Sep 14 2005