

Portable Manual

iR2030/2025/2022/2018 Series

Canon

Application

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Caution

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



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.

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 1 Maintenance and Inspection

1.1 Periodically Replaced Parts

1.1.1 Overview

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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

1.1.3 Printer Unit

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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

1.2 Durables and Consumables

1.2.1 Overview

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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

1.2.3 Printer Unit

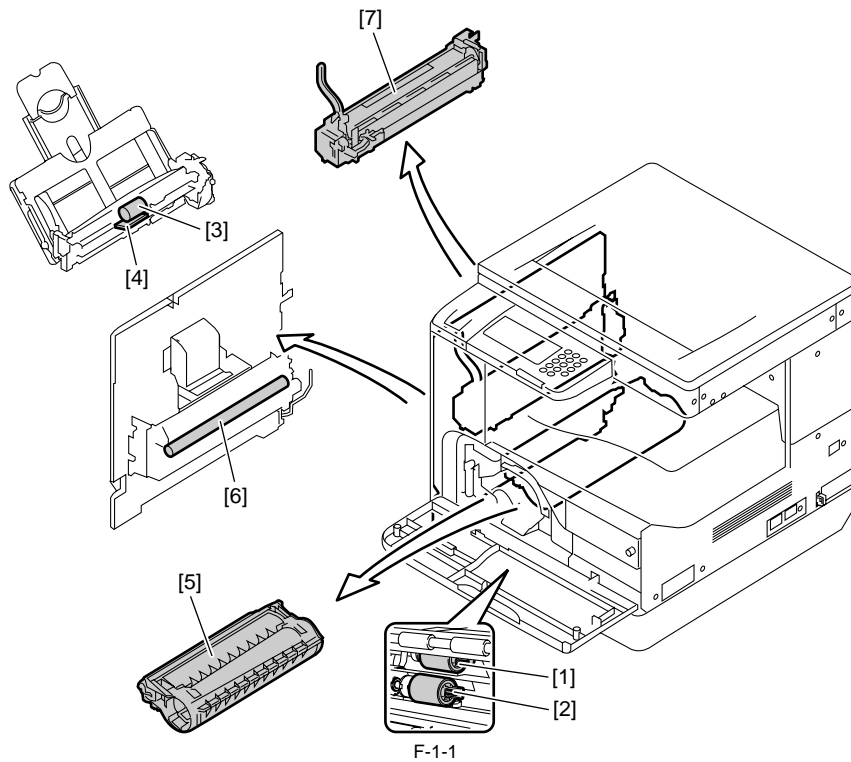
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

As of Jun. 2007

Ref.	Parts name	Parts No.	Q'ty	Life	Remarks
[1]	Cassette feed roller	FF6-1621-000	1	100K	The 2-stage cassette type uses two rollers.
[2]	Cassette separation roller	FF6-1621-000	1	100K	The 2-stage cassette type uses two rollers.
[3]	Manual feed pickup roller	FL2-3202-000	1	150K	
[4]	Manual feed separation pad	FL2-3201-000	1	150K	
[5]	Devloping unit	FM2-3286-000	1	150K	
[6]	Transfer roller	FC6-4313-000	1	150K	
[7]	Fixing unit (100V)	FM3-3652-000	1	150K	
	Fixing unit (120V)	FM3-3651-000	1	150K	
	Fixing unit (230V)	FM3-3650-000	1	150K	



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



1.3 Scheduled Servicing Basic Procedure

1.3.1 Scheduled Servicing

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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 (LCD type)

iR2018 / iR2022

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.

2.1.2 Procedure after Replacing the CIS (Touch panel type)

iR2022i / iR2025 / iR2030 / iR2018i

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 Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.

2) Press the arrow key on the touch panel to display "TEST MODE".

3) Press [OK].

4) Press the [2] key to display "SCAN TEST".

5) Press the [1] key to display "SHADING".

6) Press [OK].

After completion of the above procedure, the contact sensor output is compensated and parameters are set automatically.

After completion of automatic adjustment, "OK" is displayed.

2.1.3 Procedure after Replacing the Copyboard Glass (With ADF)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

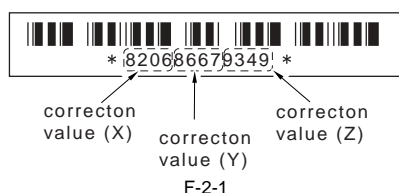
After replacing the copyboard glass, enter the correction values (X, Y, Z) of the standard white plate which are indicated on the back of the new copyboard glass in the service mode.

Correction value (X): Service mode>#SCAN>#SCAN NUMERIC>No.213

Correction value (Y): Service mode>#SCAN>#SCAN NUMERIC>No.214

Correction value (Z): Service mode>#SCAN>#SCAN NUMERIC>No.215

Also, rewrite the values on the service label.



2.2 Image Formation System

2.2.1 Procedure after Replacing the Developing Assembly

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<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 fol-

lowing 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 then 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 (LCD type)

iR2018 / iR2022

If you have replaced the image processor PCB with a new one, perform the following operations:



- Using the service support tool, download the latest firmware (System/Boot).

- 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.

2.3.2 Procedure after Replacing the Image Processor PCB (Touch panel type)

iR2022i / iR2025 / iR2030 / iR2018i

If you have replaced the image processor PCB with a new one, perform the following operations:

- Using the service support tool, download the latest firmware (System/Boot) and language files.

- Delete the languages not used at the destination (Service mode > CLEAR > FILE SYSTEM).

- 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 Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.

2) Press the arrow key on the touch panel to display "TEST MODE".

3) Press [OK].

4) Press the [2] key to display "SCAN TEST".

5) Press the [1] key to display "SHADING".

6) Press [OK].

After completion of the above procedure, the contact sensor output is compensated and parameters are set automatically.

After completion of automatic adjustment, "OK" is displayed.

- Read position adjustment (Stream reading: Only when the ADF is installed)
 - 1) Enter the service mode.
 - Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
 - 2) Press the arrow key on the touch panel to display "TEST MODE".
 - 3) Press [OK].
 - 4) Press the [2] key to display "SCAN TEST".
 - 5) Press the [3] key to display "SHEET POS ADJ".
 - 6) Press [OK].
- 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.

2.3.3 Procedure after Replacing the USB Memory (Touch panel type)

iR2022i / iR2025 / iR2030 / iR2018i

If you have replaced the USB with a new one, perform the following operations:

- Using the service support tool, download language files.
- Delete the languages not used at the destination (Service mode > CLEAR > FILE SYSTEM).

MEMO:

You also need to perform these operations after formatting the damaged USB memory.

2.3.4 Actions to Take before All Clearing (Backing up the User Data)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i



- Performing the all-clear operation in the service mode (#CLEAR > ALL) erases/initializes the user data such as address data and user mode settings. Be sure to back up the user data with the data export function before starting the all-clear operation, and then load the user data with the data import function.
- To export and import user data, a PC and a USB cable are required. Have them on hand.

a. Exporting user data

- 1) Output a user data list in the following user mode.



> Report Setting > Print List > User Data List

- 2) Press the following keys to enter the service mode.



> 2 key > 8 key >



- 3) Select "#SYSTEM" using ◀ or ▶, and then press the OK.
- 4) Select "#SYSTEM SW" using ◀ or ▶, and then press the OK.
- 5) Press the following keys to display "SW003."
> 0 key > 3 key
Message: #SYSTEM SW003 00001000
- 6) Position the cursor at Bit-6 (second from left) using ◀ or ▶, and then press the 1 key.
Message: #SYSTEM SW003 01001000
- 7) Press the OK key. Check that "SW003" changes to "SW004".
Message: #SYSTEM SW004 00000000
- 8) Press the Reset key to exit the service mode.
- 9) Turn off the main power switch, and then turn it on again.
- 10) Start the PC and connect it to this machine with a USB cable.
- 11) Open My Computer on the PC to check that the "Removable Disk" icon is displayed. If the "Removable Disk" icon is not displayed, repeat the above procedure starting with step 1.
- 12) Double-click the "Removable Disk" icon, and then copy the user data (address_book.abk and user_data.dat) onto the Desktop.
- 13) Close the window on the Desktop.
- 14) Turn off the main power switch of this machine.
- 15) Disconnect the USB cable from this machine.

b. Importing user data

- 1) Press the following keys to enter the service mode.



> 2 key > 8 key >



- 2) Select "#SYSTEM" using ◀ or ▶, and then press the OK.

- 3) Select "#SYSTEM SW" using ◀ or ▶, and then press the OK.
- 4) Press the following keys to display "SW003".
> 0 key > 3 key
Message: #SYSTEM SW003 00001000
- 5) Check that Bit-6 (second from left) is set to set to "1". If Bit-6 is not set to "1", position the cursor at this bit using ◀ or ▶ and then press the 1 key.
Message: #SYSTEM SW003 01001000
- 6) Press the OK key. Check that "SW003" changes to "SW004".
Message: #SYSTEM SW004 00000000
- 7) Press the Reset key to exit the service mode.
- 8) Turn off the main power switch, and then turn it on again.
- 9) Open My Computer on the PC to check that the "Removable Disk" icon is displayed.
- 10) Write the user data (address_book.abk and user_data.dat) copied onto the Desktop as described in "a. Exporting user data" over the removable disk.
- 11) Disconnect the USB cable from the machine.
- 12) Turn off the main power switch of the machine.
- 13) Perform steps 1) to 4) again to reset Bit-6 of "SW003" to "0".
- 14) Press the OK key. When "SW003" changes to "SW004", press the Reset key to exit the service mode.
- 15) Check the user data list output as described in "a. Exporting user data" to make sure that the user data has been loaded into the machine properly.

Chapter 3 Error Code

3.1 Error Code Details

3.1.1 Error Code Details

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - 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.	<ul style="list-style-type: none"> - Check the connector of the BD detection PCB. - Replace the laser scanner unit. - Replace the DC controller PCB.

Display Code	Detail Code	Main Cause/Symptom	Countermeasure
E196	0001	Image processor PCB failure	
		Error on writing and readout ROM of image processor PCB (main ROM).	- Putting the switch on/off of the power supply. - Replace the image processor PCB.
	0002	Image processor PCB failure	
		Error on writing and readout ROM of image processor PCB (option ROM).	- Putting the switch on/off of the power supply. - Replace the image processor 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.
E261	0000	Zero-cross signal error	
		If failed to detect zero-cross signal cycle of the power supply when initializing. When the input of the zero-signal failed continuously for three seconds while controlling the temperature adjustment.	- Replace the power supply PCB. - Replace the DC controller 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.
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.
E730	0000	Inside error of the image processor PCB (PDL system error)	
		The inside of the image processor PCB is faulty.	- Putting the switch on/off of the power supply. - 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.

Display Code	Detail Code	Main Cause/Symptom	Countermeasure
E744		Language file/boot ROM/USB memory error	
	0001	The language file version does not match Bootable.	Download a language file of the correct version.
	0002	The language file is longer than the permitted size.	Download a language file of the correct version.
	0003	The language file version does not match Bootable.	Download a language file of the correct version.
	0004	Language file read error	Download a language file of the correct version.
E805	0000	Fan failure	
		The fan is faulty.	<ul style="list-style-type: none"> - Check the fan connector. - Replace the fan. - Replace the DC controller PCB.
E808	0000	Fixing drive circuit failure	
		<ul style="list-style-type: none"> - The heater does not turn on. - A fixing drive motor failure was detected. 	<ul style="list-style-type: none"> - 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)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-3-2

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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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.
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)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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.
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 (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-1

Item	Settings
Initial Function	Select Initial Function: Copy*1, Send, Scan Set System Monitor Screen as initial function: On, Off*1 Set [Device] as the default for System Monitor: On*1, Off
Auto Clear Setting	Initial Function*1, Selected Function
Audible Tones	Entry Tone: On *1 (1*1 to 3 levels)*2, Off Error Tone: On *1 (1*1 to 3 levels)*2, Off Send Done Tone: On (1 to 3 levels)*2, Off*1 Receive Done Tone: On (1 to 3 levels)*2, Off*1 Print Done Tone: On *1 (1*1 to 3 levels)*2, Off Scan Done Tone: On *1 (1*1 to 3 levels)*2, Off
Toner Save Mode	High, Low, Off*1
Printer Density	1 to 9 levels; 5*1
Inch Entry	On*1, Off
Drawer Eligibility For APS/ADS	Copy Stack Bypass: On, Off*1 All Other Paper Sources: On*1, Off Printer Stack Bypass: cannot be set All Other Paper Sources: On*1, Off Receive Stack Bypass: On, Off*1 All Other Paper Sources: On*1, Off Other Stack Bypass: On, Off*1 All Other Paper Sources: On*1, Off
Register Paper Type	Paper Drawer 1, Paper Drawer 2*2, Paper Drawer 3*2, Paper Drawer 4*2: Plain*1, Recycled, Color, 3-hole punch, Bond, Heavy Paper 1
Energy Consumption in Sleep Mode	Low*1, High
Tray Designation*2	If the Optional Inner 2 Way Tray-E2 Is Attached: Tray A: Copy*1, Printer*1, Receive*1, Other*1 Tray B: Copy*1, Printer*1, Receive*1, Other*1 If the Optional Finisher-U2 and Additional Finisher Tray-C1 Are Attached: Tray A: Copy*1, Printer*1, Receive*1, Other*1 Tray B: Copy*1, Printer*1, Receive*1, Other*1
Stack Bypass Standard Settings	On: Paper Size, Paper Type Off*1
Paper Feed Method Switch	Stack Bypass, Paper Drawer 1, Paper Drawer 2*2, Paper Drawer 3*2, Paper Drawer 4*2: Speed*1, Print Side
Language Switch	On, Off*1
Reversed Display (B/W)	On, Off*1
Error Display for Dirty Feeder	On*1, Off
Data Compress. Ratio for Remote Scans	High Ratio, Normal*1, Low Ratio
Gamma Value for Remote Scans	Gamma 1.0, Gamma 1.4, Gamma 1.8*1, Gamma 2.2
Initialize Common Settings	Initialize: Yes, No

*1 Indicates the default setting.

*2 Indicates items that appear only when the appropriate optional equipment is attached.

4.1.2 Timer Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-2

Item	Settings
Date & Time Settings	Date and Time Setting (12 digit number) Time Zone Settings: GMT -12:00 to GMT +12:00; GMT -5:00*1 Daylight Saving Time Settings: On, Off*1
Auto Sleep Time	Use Auto Sleep Time: On*1, Off 3 to 30 minutes; 5*1
Auto Clear Time	0 (Off) to 9 minutes, in one minute increments; 2 min.*1

*1 Indicates the default setting.

4.1.3 Adjustment/Cleaning (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-3

Item	Settings
Transfer Roller Cleaning	Press [Start].
Drum Cleaning	Press [Start].
Fixing Unit Cleaning	Cleaning Sheet Print, press [Start].
Feeder Cleaning	Press [Start].
Special Mode M	Standard*1, Low, Moderate, High
Special Mode N	Manual (Medium, High), Off
Special Mode O	Stack Bypass: Medium, High, Off*1 Drawer: Medium, High, Off*1
Special Mode P	Off*1, Medium, High
Bond Special Fixing Mode	On, Off*1
Special Mode S	Speed Priority 1, Speed Priority 2, Off*1
Rotate Collate Adjustment	Speed Priority 1*1, Speed Priority 2, Image Priority
Auto Adjustment for Dirty Feeder	On*1, Off

*1 Indicates the default setting.

4.1.4 Report Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-4

Item	Settings
Settings	TX Report: On, For Error Only*1, Off Report With TX Image: On*1, Off Activity Report Auto Print: On*1, Off Send/Receive Separate: On, Off*1 RX Report: On, For Error Only, Off*1
Print List	Address Book List One-touch Buttons: Yes, No Address Book: Yes, No User's Data List: Yes, No

*1 Indicates the default setting.

4.1.5 System Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-5

Item	Settings
System Manager Settings	
System Manager	32 characters maximum
System Manager ID	Seven digit number maximum
System Password	Seven digit number maximum
Department ID Management	
Department ID Management	On, Off*1
Register ID/Password	Register, Edit, Erase, Set page limits
Page Totals	Clear, Clear All Totals, Print List
Allow ID Unknown Printer Jobs	On*1, Off

Item	Settings
Allow ID Unknown Remote Scan Jobs	On*1, Off
Network Settings	
Forwarding Settings	
Receive Type*2	All*1, Fax, I-Fax
Validate/Invalidate	On, Off*1
Register	Condition Name: 50 characters maximum Forwarding Conditions Receive Type: Fax*2, I-Fax
Forward w/o Cond.	Receive Type: Fax*2, I-Fax Forwarding Destination: Select from the list of registered addresses. File Format: TIFF*1, PDF, Divide into Pages
Detail/Edit	Condition Name: 50 Characters maximum Forwarding Conditions Receive Type: Fax*2, I-Fax
Erase	Yes, No
Print List	Yes, No
Device Info Settings	
Device Name	32 characters maximum
Location	32 characters maximum
User ID Management	On, Off*1
Communications Settings	
E-mail/I-Fax Settings	Maximum TX Data Size: 0 to 99 MB; 3 MB*1 Divided TX over Max.Data Size: On, Off*1 Default Subject: 40 characters maximum; Attached Image*1
Fax Settings*2	Send Start Speed: 33600 bps*1, 14400 bps, 9600 bps, 7200 bps, 4800 bps, 2400 bps Receive Start Speed: 33600 bps*1, 14400 bps, 9600 bps, 7200 bps, 4800 bps, 2400 bps
Memory Lock Settings	On: Option Off*1
Remote UI On/Off On*1	On*1, Off
Restrict the Send Function	Address Book Password: 7 digits maximum Restrict New Addresses: On, Off*1 Allow Fax Driver TX: On*1, Off Restrict Recall: On, Off*1 Confirm Entered Fax Numbers*2: On, Off*1 Restrict Sequential Broadcast: Broadcast Confirmation, Prohibit Broadcast, Off*1
License Registration	Enter a license key using the numeric keys.
Display Dept. ID/User Name	On*1, Off
Auto Online/Offline	Auto Online: On, Off*1 Auto Offline: On, Off*1
Job Log Display	On*1, Off
Use USB Device	On*1, Off
Failed Forwarding Document Set.	Print Image: On*1, Off Store Image to Memory: On, Off*1
PDL Selection (PnP)	UFRII LT*1, PCL5e, PCL6, FAX

*1 Indicates the default setting.

*2 Indicates items that appear only when the appropriate optional equipment is attached.

4.1.6 Copy Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-6

Item	Settings
Image Orientation Priority	On, Off*1
Auto Orientation	On*1, Off
Standard Settings	Store, Initialize
Initialize Copy Settings	Yes, No

*1 Indicates the default setting.

4.1.7 Communication Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

Item	Settings
Common Settings: TX Settings	
Unit Name	24 characters maximum
Data Compression Ratio	High Ratio, Normal*1, Low Ratio
Retry Times	0 to 5 times; 3 times*1
Edit Standard Send Settings	Store, Initialize
TX Terminal ID	On: Option (Printing Position, Telephone # Mark*2)
Gamma Value for Color Send Jobs	Gamma 1.0, Gamma 1.4, Gamma 1.8*1, Gamma 2.2
Sharpness	1 to 7 levels, 4*1
Register Favorites Button	M1 to M18
Color TX Scan Settings	Speed Priority*1, Image Priorit
Default Screen for Send	Favorite Buttons, One-touch Buttons, Initial Function*1
Initialize TX Settings	Yes, No
Common Settings: RX Settings	
2-Sided Print	On, Off*1
Select Cassette	Switch A: On*1, Off Switch B: On*1, Off Switch C: On*1, Off Switch D: On*1, Off
Receive Reduction	On*1 RX Reduction: Auto*1, Fix. Red. Reduce %: 97, 95, 90*1, 75% Reduce Direction Ver. Hor., Vertical Only*1 Off
Received Page Footer	On, Off*1
Continue Printing When Toner Is Out	On, Off*1
Fax Settings: User Settings*2	
Unit Telephone #	20 characters maximum
Tel Line Type	Pulse, Tone*1
Monitor Volume Control	Volume Control: 0 to 3 levels, 1*1
Fax Settings: TX Settings*2	
ECM TX	On*1, Off
Pause Time	1 to 15 seconds; 2 seconds*1
Auto Redial	On*1 Option: Redial Times: 1 to 10 times; 2 times*1 Redial Interval: 2 to 99 minutes; 2*1 minutes*1 TX Error Redial: On*1, Off Off
Check Dial Tone Before Sending	On*1, Off
Rotate Send	On*1, Off
Fax Setting: RX Settings*2	
ECM RX	On*1, Off

*1 Indicates the default setting.

*2 Indicates items that appear only when the appropriate optional equipment is attached.

4.1.8 Printer Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

Item	Settings
DEFAULT PAPERSIZE	LTR*, STMT, EXECUTIV, ISO-B5, ISO-C5, COM10, MONARCH, DL, A4, A3, B4, B5, A5, 11X17, LGL
DEFAULT PAPERTYPE	PLAIN PAPER*, COLOR, RECYCLED, HEAVY PAPER 1, HEAVY PAPER 2, HEAVY PAPER 3, BOND, 3-HOLE PUNCH PAPER, TRANSPARENCY, LABELS, ENVELOPE
COPIES	1 to 999; 1*
2-SIDED PRINTING	OFF*, ON
PRINT QUALITY	
IMAGE REFINEMENT	ON*, OFF
DENSITY	9 levels; 5*
TONER SAVER	OFF*, ON
PAGE LAYOUT	
BINDING	LONG EDGE*, SHORT EDG

Item	Settings
MARGIN	INCHES*: -01.90 INCHES to 01.90 INCHES; 00.00 INCHES* MM: -50.0 MM to 50.0 MM; 0.0 MM*
AUTO ERROR SKIP	OFF*, ON
ERROR TIME OUT	ON* (TIME OUT PERIOD: 5 to 300 SEC), OFF; 15 SEC*
COLLATE	OFF*, COLLATE, ROTATE + COLLATE*1, ROTATE + GROUP*1, OFFSET + COLLATE*2, OFFSET + GROUP*2, STAPLE*2 (STAPLE POSITION: TOP LEFT*, TOP RIGHT, BOTTOM LEFT)
INIT. PRINTER SET	OFF*, ON
RESET PRINTER	OFF*, ON
PCL Settings	
PAPER SAVE	OFF*, ON
ORIENTATION	PORTRAIT*, LANDSCAPE
FONT NUMBER	0 to 89; 0*
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; 60 lines*
SYMBOL SET	PC8*, PC850, PC852, PC858, PC8DN, PC8TK, PC1004, PSTEXT, ROMAN8, ROMAN9, WIN30, WINBALT, WINL1, WINL2, WINL5, DESKTOP, ISO4, ISO6, ISO11, ISO15, ISO17, ISO21, ISO60, ISO69, ISOL1, ISOL2, ISOL5, ISOL6, ISOL9, LEGAL, MCTEXT, PC775
CUSTOM PAPER	OFF*, ON
UNIT OF MEASURE	INCHES*, MILLIMETERS
X DIMENSION	5.83" to 17.00" (148 mm to 432 mm); 17.00"* (432 mm)
Y DIMENSION	3.75" to 11.69" (95 mm to 297 mm); 11.69"* (297 mm)
APPEND CR TO LF	NO*, YES
ENLARGE A4	OFF*, ON
HALFTONE	
TEXT	TONE, GRADATION, RESOLUTION*
GRAPHICS	TONE*, GRADATION, RESOLUTION
IMAGE	TONE*, GRADATION, RESOLUTION
BarDIMM*3	ENABLE*, DISABLE
FreeScape	~*, ", #, \$, /, \, ., ?, {, }, , OFF

An asterisk(*) indicates the default settings.

*1 Rotate items do not appear when the optional Finisher-U2 is attached.

*2 Offset and staple items appear only when the optional Finisher-U2 is attached.

*3 This setting is available only if the BarDIMM function is activated.

4.1.9 Address Book Settings (iR2030i/iR2030/iR2025i/iR2025/iR2022i/iR2018i)

iR2022i / iR2025 / iR2030 / iR2018i

T-4-9

Item	Settings
Register Address: Register New Address	
Fax*2	Fax Number: 120 characters maximum Option: Sending Speed, Long Distance, ECM TX Register Name: 16 characters maximum
E-mail	E-mail Address: 120 characters maximum Register Name: 16 characters maximum
I-Fax	I-Fax Address: 120 characters maximum Register Name: 16 characters maximum
File	Protocol: FTP*1, Windows (SMB) Host Name: 120 characters maximum File Path: 120 characters maximum User: 24 characters maximum Password: 24 characters maximum (FTP), 14 characters maximum (Windows (SMB)) Register Name: 16 characters maximum
Group	Address Book Erase Register Name: 16 characters maximum
Register Address: Erase	
Register Address: Edit	
One-touch Buttons	
Register/Edit	You can register or edit the items of One-touch Buttons for Fax, E-mail, I-Fax, File, and Group shown in Register New Add above. Key Name: 12 characters maximum

*1 Indicates the default setting.

*2 Indicates items that appear only when the appropriate optional equipment is attached.

4.1.10 Recommended setting of system management information

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

When multiple users use the machine, it is necessary to advise each user to set the system management information.

Setting ID and password of system administrator on the operation unit under (Additional functions key) > [System management setting] > [Setting of system administrator's information] has an effect of restraining the third person from falsifying information, for the ID and password are required when a user carries out an important setting of the machine.

Under the environment that the setting is not done, if a user who does not sufficiently know operation situation of the machine tries to change the setting, following troubles may occur.

- When the user changes [User ID Management] from [off] to [on], copying operation cannot be done unless ID and password are input.
- When each setting is changed on the network from RUI, that enables to falsify data of address book or delete log.
- When TCP/IP fixed address is changed on the network setting, printing operation via network cannot be done until the port setting is changed.
- When usage restriction of USB device is changed to [on], printing operation via USB becomes disabled.

4.1.11 The Reference Information of the Department ID Management

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Function:

If Department is registered in Department ID Management, users are required to input the Department ID and password when inputting data from the operation unit of the machine. Also, the registration enables to restrict usage and control the usage number of times of Total Parts, Copy, B&W Scan, Color Scan, or Print.

Setting method:

Register Department ID in Department ID Management under Additional Functions key>System Setting.

Operation outline:

Department ID can be registered in [Department ID management] from the operation unit of the machine even though [System Manager Settings] is not done.

When registering data in [Department ID Management] using RUI, you need to register yourself as a system manager in [System Manager Settings] and login as a system manager.

Chapter 5 Service Mode

5.1 Fax System Service Mode

5.1.1 Service Soft Switch Settings (SSSW)

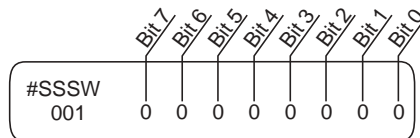
5.1.1.1 Outline

5.1.1.1.1 Bit Switch Composition

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6052

The items registered and set by each of these switches comprise 8-bit switches. The figure below shows which numbers are assigned to which bits. Each bit has a value of either 0 or 1.



F-5-1

⚠ Do not change service data identified as "not used"; they are set as initial settings.

5.1.1.2 SSSW-SW01

5.1.1.2.1 List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6053

T-5-1

Bit	Function	1	0
0	service error code	output	not output
1	not used	-	-
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.2.2 Detailed Discussions of Bit 0

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6054

Selects whether or not service error codes are output.
When output is selected, service error codes is report.

5.1.1.3 SSSW-SW03

5.1.1.3.1 List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6055

T-5-2

Bit	Function	1	0
0	not used	-	-
1	not used	-	-

Bit	Function	1	0
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	tonal signal before CED signal transmission	transmit	do not transmit

5.1.1.3.2 Detailed Discussions of Bit 7

0017-6056

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to enable/disable transmission of a 1080-Hz tonal signal before transmission of the CED signal. Select 'transmit' if errors occur frequently because of an echo when reception is from overseas.

Memo:

Any of the following error code may be indicated because of an echo at time of reception
##0005, ##0101, ##0106, ##0107, ##0114, ##0200, ##0201, ##0790

5.1.1.4 SSSW-SW04

5.1.1.4.1 List of Functions

0017-6057

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-3

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	the number of final flag sequences of protocol signals	2	1
3	Reception mode after CFR signal transmission	high speed	high speed/low speed
4	the length of the period of ignoring low speed signals after CFR output	1500 ms	700 ms
5	CI signal frequency check at the time of PBI setting	Check	Not
6	CNG signal for manual transmission	Not transmitted	Transmitted
7	CED signal for manual reception	Not transmitted	Transmitted

5.1.1.4.2 Detailed Discussions of Bit 2

0017-6058

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to select the number of last flag sequences for a protocol signal (transmission speed at 300 bps). Select '2' if the other party fails to receive the protocol signal properly.

Memo:

Any of the following error codes may be indicated at time of transmission
##0100, ##0280, ##0281, ##0750, ##0753, ##0754, ##0755, ##0758, ##0759, ##0760, ##0763 ##0764, ##0765, ##0768, ##0769, ##0770, ##0773, ##0775, ##0778, ##0780, ##0783, ##0785, ##0788

5.1.1.4.3 Detailed Discussions of Bit 3

0017-6059

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to select an appropriate reception mode after transmission of the CFR signal. If errors occur frequently at time of reception because of the condition of the line, select 'high speed' for reception mode and, at the same time, selects 'do not receive' for 'ECM reception.'

Memo:

Any of the following error codes may be indicated at time of reception because of line condition
##0107, ##0114, ##0201
Be sure to change bit 4 before changing this bit; if errors still occur, change this bit.
When 'high speed' is selected, only high-speed signals (images) will be received after transmission of the CFR signal.

5.1.1.4.4 Detailed Discussions of Bit 4

0017-6060

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to select the time length during which low-speed signals are ignored after transmission of the CFR signal. If the condition of the line is not good and, therefore, the reception of image signals is difficult, select '1500 ms.'

5.1.1.4.5 Detailed Discussions of Bit 5

0017-8523

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

In the countries that need approval of CI signal frequency check, no checking on frequency set at PBX when changing the frequency to PSTN setting and PBX setting for frequency checks.

5.1.1.4.6 Detailed Discussions of Bit 6

0017-6063

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Selects whether or not to transmit CNG signal during manual transmission.

In manual transmitting to a fax with the FAX/TEL switching mode, if there are frequent errors due to failure to switch to fax mode, select "Transmitted" for the CNG signal.

5.1.1.4.7 Detailed Discussions of Bit 7

0017-6064

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Selects whether or not to transmit CED signals during manual reception. If the other fax does not transmit even when you start manual reception, select "Transmitted" for the CED signal.

5.1.1.5 SSSW-SW05

5.1.1.5.1 List of Functions

0017-6065

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-4

Bit	Function	1	0
0	not used	-	-
1	Conversion from mm to inch (text mode)	convert	do not convert
2	Conversion from mm to inch (text/photo mode)	convert	do not convert
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.5.2 Detailed Discussions of Bit 1

0017-6066

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to enable/disable millimeter/inch conversion in sub scanning direction for images read in text mode. Scanning direction in conversion follows the Bit 2 setting of SW14.

5.1.1.5.3 Detailed Discussions of Bit 2

0017-6067

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to enable/disable millimeter/inch conversion in sub scanning direction for images read in text/photo mode while bit 1 is set to '1'. Scanning direction in conversion follows the Bit 2 setting of SW14.

5.1.1.6 SSSW-SW12

5.1.1.6.1 List of Functions

0017-6068

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-5

Bit	Function	1	0
0	Time-out period for one page upon transmission	1	0
1	Time-out period for one page upon transmission	1	0
2	not used	-	-
3	not used	-	-
4	Time-out period for one page upon reception	1	0
5	Time-out period for one page upon reception	1	0
6	not used	-	-
7	Respective page timer settings for transmission and for reception	enable	do not enable

The machine will stop the ongoing communication if the transmission/reception of a single original page takes 32 min or more. To use the timer for a purpose other than this function, refer to the tables that follow, and select an appropriate time length.

When 'do not enable' is selected using bit 7, the time-out length for a single page for all modes will depend on the setting of bit 0 and bit 1.

T-5-6

Time-Out Length for Transmission/Reception	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min	0	*	*	*	*	*	0	0
16 min	0	*	*	*	*	*	0	1
32 min	0	*	*	*	*	*	1	0
64 min	0	*	*	*	*	*	1	1

T-5-7

Time-Out Length for Transmission (in text mode)	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min	1	*	*	*	*	*	0	0
16 min	1	*	*	*	*	*	0	1
32 min	1	*	*	*	*	*	1	0
64 min	1	*	*	*	*	*	1	1

T-5-8

Time-Out Length for Reception	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8 min	1	*	0	0	*	*	*	*
16 min	1	*	0	1	*	*	*	*
32 min	1	*	1	0	*	*	*	*
64 min	1	*	1	1	*	*	*	*

5.1.1.7 SSSW-SW13

5.1.1.7.1 List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6069

T-5-9

Bit	Function	1	0
0	not used	-	-

Bit	Function	1	0
1	not used	-	-
2	Convert "inch" into "mm" when transmitting the received image data	convert	do not convert
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.7.2 Detailed Discussions of Bit 2

0017-6070

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

It converts "inch" into "mm" when transmitting the received image data. Scanning direction in conversion follows the Bit 2 setting of SW14.

5.1.1.8 SSSW-SW14

5.1.1.8.1 List of Functions

0017-6071

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-10

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	direction of scanning for inch/mm conversion	both main and sub scanning directions	sub scanning direction only
3	not used	-	-
4	inch-configuration resolution declaration	declare	do not declare
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.8.2 Detailed Discussions of Bit 2

0017-6072

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to specify whether to convert or not convert an inch-configuration resolution into a millimeter-configuration resolution for image read in G3 transmission: either in sub scanning direction only or in both main and sub scanning directions. The setting is valid only when bit 1 of SW05 of #SSSW is set to '1'.

5.1.1.8.3 Detailed Discussions of Bit 4

0017-6073

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to specify whether to declare or not declare an inch-configuration resolution to the other machine for G3 communication: if 'declare' is selected, the machine will indicate that it reads and records at an inch-configuration resolution using the DIS, DCS, or DTC signal.

5.1.1.9 SSSW-SW25

5.1.1.9.1 List of Functions

0017-8526

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-11

Bit	Function	1	0
0	procedure of V.8 on the initiation side	receiver's number	initial call number
1	not used	-	-

Bit	Function	1	0
2	If void CSI has been received, handle as non-received CSI.	Yes	No
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.9.2 Detailed Discussions of Bit 0

0017-8528

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Transmitted telephone number could be selected on the report indication after the transmission.
If the "Initiation number" is selected, report will indicate the telephone number of the initiation side.
If the "Receiver's number" is selected, report will indicate the phone number (CSI signal data) which is sent by the receiver's side.

5.1.1.9.3 Detailed Discussions of Bit 2

0017-8529

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

At "1" on this Bit, ignore the void CSI if received and if the dial has been made at this point, the dialed number will be indicated on the LCD/ Report screen.
At "0" on this Bit, even though the dialed number is acknowledged, LCD/Report screen will indicate nothing.

5.1.1.10 SSSW-SW28

5.1.1.10.1 List of Functions

0017-6074

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-12

Bit	Function	1	0
0	Caller V.8 protocol	NO	YES
1	Called party V.8 protocol	NO	YES
2	Caller V.8 protocol late start	NO	YES
3	Called party V.8 protocol late start	NO	YES
4	V.34 reception fallback	Prohibited	Not prohibited
5	V.34 transmission fallback	Prohibited	Not prohibited
6	not used	-	-
7	not used	-	-

5.1.1.10.2 Detailed Discussions of Bit 0

0017-6075

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to use the V.8 protocol when calling. If NO is selected, the V.8 protocol is inhibited at calling and the V.21 protocol is used.

5.1.1.10.3 Detailed Discussions of Bit 1

0017-6076

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to use the V.8 protocol when called. If NO is selected, the V8 protocol is inhibited when called and the V.21 protocol is used.

5.1.1.10.4 Detailed Discussions of Bit 2

0017-6077

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If ANSam signal is not received during transmission, select whether to use the V.8 protocol when the other fax machine declares the V.8 protocol in DIS signal. If NO is selected, the CI signal is not transmitted and the V.8 protocol is not used even if the DIS that specifies the V.8 protocol is received.
The V.8 late start is not executed during manual transmission regardless of this setting.

5.1.1.10.5 Detailed Discussions of Bit 3

0017-6078

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to declare the V.8 protocol in DIS signal for reception. If NO is selected, the V.8 protocol cannot be used because it is not declared in DIS signal. The V.8 late start is not executed during manual reception regardless of this setting.

5.1.1.10.6 Detailed Discussions of Bit 4

0017-6079

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether the receiver falls back during V.34 reception. If 'Prohibit' is selected, the receiver does not fall back.

5.1.1.10.7 Detailed Discussions of Bit 5

0017-6080

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether the transmitter falls back during V.34 transmission. If 'Prohibit' is selected, the transmitter does not fall back.

5.1.1.11 SSSW-SW30

5.1.1.11.1 List of Functions

0017-6081

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-13			
Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	New dial tone detection method	Detect with the new method.	Detect with the existing method.
6	Not used	-	-
7	Not used	-	-

5.1.1.11.2 Detailed Discussions of Bit 5

0017-6082

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

When "Detect with the new method" is selected, tone is detected for 3.5 seconds before call origination in order to discriminate between dial tone and voice. If dial tone is detected and the time since line seizure is 3.5 seconds or longer, call origination takes place immediately. If the time since line seizure is less than 3.5 seconds, call origination takes place after waiting for 1 second. (If the time since line seizure reaches 3.5 seconds during the 1-second waiting period, call origination takes place immediately. By default, "Detect with a new method" is assigned for this SW.

5.1.1.12 SSSW-SW33

5.1.1.12.1 List of Functions

0017-6083

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-14			
Bit	Function	1	0
0	count B4 (Print) as large size	Yes	No
1	indicate serial No. on counter check screen	Yes	No
2	count B4 (Scan) as large size	Yes	No
3	the counter display type change in Japan and USA	Yes	No
4		Yes	No
5	not used	-	-
6	not used	-	-
7	not used	-	-

5.1.1.12.2 Detailed Discussions of Bit 00017-6084

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to specify whether B4 paper (Print) should be counted as large-size paper.
 If 'yes' is selected, B4 paper will be counted as large-size paper.
 If 'no' is selected, on the other hand, B4 paper will be counted as small-size paper.

5.1.1.12.3 Detailed Discussions of Bit 10017-6085

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to specify whether to indicate the machine serial No. on the Counter Check screen, appearing when the Counter key is pressed.
 If 'yes' is selected, the serial No. will be indicated.
 If 'no' is selected, on the other hand, the serial No. will not be indicated.

5.1.1.12.4 Detailed Discussions of Bit 20017-6086

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to specify whether B4 paper (Scan) should be counted as large-size paper.
 If 'yes' is selected, B4 paper will be counted as large-size paper.
 If 'no' is selected, on the other hand, B4 paper will be counted as small-size paper.

5.1.1.12.5 Detailed Discussions of Bit 3 - Bit40017-6087

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to switch the counter display type in effect in Japan and USA to the conventional or new type. Select "Yes" to display counters in the new type.
 Select "No" to display counters in the conventional type.

T-5-15

	Bit4	Bit3
Conventional type	0	0
New type 1	0	1
New type 2	1	0

5.1.1.13 SSSW-SW34**5.1.1.13.1 List of Functions**0017-6088

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-16

Bit	Function	1	0
0	Display the waste toner full warning	YES	NO
1	Switch the waste toner full warning	Drum replacement required message displayed on an operator call	E019 displayed on an service call
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

The default setting of this SSSW varies depending on the destination of the product.
 Product for Japan: 00000000
 Product for countries in Euro zone: 00000011
 Products for other countries/regions: 00000001

5.1.1.13.2 Detailed Discussions of Bit 00017-6089

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

You can select whether a waste toner full warning is to be displayed.
When "1" is selected, a waste toner full warning is displayed.
When "0" is selected, a waste toner full warning is not displayed.

5.1.1.13.3 Detailed Discussions of Bit 1

0017-6090

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to display the waste toner full warning as a drum replacement required message or as E019 displayed on an operator call. Select 1 to display a drum replacement required message on an operator call. Select 0 to display E019 on a service call.

5.1.2 Menu Switch Settings (MENU)

5.1.2.1 Menu Switch Composition

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-17

No.	Function	Range of settings
005	NL equalizer	1: ON, 0: OFF
006	telephone line monitor	0:DIAL, 1:SERVICEMAN1, 2:SERVICEMAN2, 3:OFF
007	transmission level (ATT)	from 0 to 15 (ex: 15= -15 dBm)
008	V.34 modulation speed upper limit	0:3429, 1:3200, 2:3000, 3:2800, 4:2743, 5:2400
009	V34 data speed upper limit	0:33.6 kbps, 1:31.2 kbps, 2:28.8 kbps, 3:26.4 kbps, 4:24.0 kbps, 5:21.6 kbps, 6:19.2 kbps, 7:16.8 kbps, 8:14.4 kbps, 9:12.0 kbps, 10:9.6 kbps, 11:7.2 kbps, 12:4.8 kbps, 13:2.4 kbps
010	Frequency of pseudoringing signal	0:50 Hz, 1:25 Hz, 2:17 Hz

5.1.2.2 <No.005 NL equalizer>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to enable-disable the NL equalizer.

If errors occur often during communication because of the condition of the line, enable (ON) the NL equalizer.

Any of the following error codes may be indicated at time of transmission because of the line condition:
##100, ##101, ##102, ##104, ##201, ##281, ##282, ##283, ##750, ##755, ##765, ##774, ##779, ##784, ##789
Any of the following error codes may be indicated at time of transmission because of the line condition:
##103, ##107, ##114, ##201, ##790, ##793

5.1.2.3 <No.006 telephone line monitor>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the telephone line monitor function:

DIAL: generate the monitor sound of the telephone line using the speaker from the start of transmission to DIS.

SERVICEMAN [1]: generate the monitor sound of the telephone line using the speaker from the start of communication to the end of it.

SERVICEMAN [2]: generate the monitor sound of the telephone line2 (Option).

OFF: do not generate the monitor sound of the telephone line using the speaker.

5.1.2.4 <No.007 ATT transmission level>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the transmission level (ATT).

Raise the transmission level if errors occur frequently at time of communication because of the condition of the line. (It means close to 8)

Any of the following error codes may be indicated at time of transmission because of the line condition:
##100, ##101, ##102, ##104, ##201, ##280, ##281, ##282, ##283, ##284, ##750, ##752, ##754, ##755, ##757, ##759, ##760, ##762, ##764, ##765, ##767, ##769, ##770, ##772, ##774, ##775, ##777, ##779, ##780, ##782, ##784, ##785, ##787, ##789
Any of the following error codes may be indicated at time of reception because of the line condition:
##103, ##106, ##107, ##201, ##793

5.1.2.5 <No.008 V.34 modulation speed upper limit>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set an upper limit to the modulation speed (baud rate) for the V.34 primary channel.

5.1.2.6 <No.009 V.34 data speed upper limit>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set an upper limit to the data transmission speed for the V.34 primary channel between 2.4K and 33.6K bps in increments of 2400 bps. (0: 2.4K to 13: 33.6K bps).

5.1.2.7 <No.010 Frequency of the pseudo CI signal>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

You may select a frequency for the pseudo CI signal.

Some types of external telephones do not ring when the fax/tel switch-over function is ON. To sound the ring, change the pseudo CI signal.

5.1.3 Numeric Parameter Settings (NUMERIC Param.)

5.1.3.1 Numerical Parameter Composition

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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No.	Item	Range of settings
002	RTN transmission condition(1)	1% to 99%
003	RTN transmission condition (2)	2 to 99 item
004	RTN transmission condition (3)	1 to 99 lines
005	NCC pause time length (pre-ID code)	1 to 60 sec
006	NCC pause time length (post-ID code)	1 to 60 sec
010	line condition identification time length	0 to 9999 (10 msec)
011	T.30T1 timer (for reception)	0 to 9999 (10 msec)
013	T.30 EOL timer	500 to 3000 (10 msec)
015	hooking detection time length	0 to 999
016	time length to first response at time of fax/tel switchover	0 to 9
017	pseudo RBT signal pattern ON time length	0 to 999
018	pseudo RBT signal pattern OFF time length (short)	0 to 999
019	pseudo RBT signal pattern OFF time length (long)	0 to 999
020	pseudo CI signal pattern ON time length	0 to 999
021	pseudo CI signal pattern OFF time length (short)	0 to 999
022	pseudo CI signal pattern OFF time length (long)	0 to 999
023	CNG detection level at time of fax/tel switchover	0 to 7
024	pseudo RBT transmission level at time of fax/tel switchover	10 to 20 0 to 20 (120/230V)
025	Answering machine connection function signal detection time	0 to 999
027	preamble detection time length for V21 low-speed flag	20 (x 10ms)
055	acquisition period of environmental log data	0 to 480 (60min)
056	display the type of soft counter 1	101 (Fixed)
057	Display the type of soft counter 2	0 to 999
058	Display the type of soft counter 3	0 to 999
059	Display the type of soft counter 4	0 to 999
060	Display the type of soft counter 5	0 to 999
061	Display the type of soft counter 6	0 to 999

5.1.3.2 <002: RTN transmission condition (1)><003: RTN transmission condition (2)><004: RTN transmission condition (3)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set RTN signal transmission conditions. Raise these parameters for more lenient conditions if errors occur frequently at time of reception because of transmission of the RTN signal.

Memo:

Any of the following error codes may be indicated at time of reception because of RTN signal transmission
##0104, ##0107, ##0114, ##0201

RTN signal transmission condition (1) affects the ratio of error lines to the total number of lines per single page of received images.

RTN signal transmission condition (2) affects the standard value (*2) of burst errors (*1).

RTN signal condition (3) affects the number of errors not reaching the standard value of burst errors.

*1: transmission error occurring cover several lines.

*2: for instance, if '15' is set, a single burst error will represent an error occurring continuously cover 15 lines.

If any of these lines is detected while an image signal is being received, the RTN signal will be transmitted after receiving the protocol signal of the transmitting party. Higher parameters restrict the transmission of the RTN signal.

5.1.3.3 <005: NCC pause length (pre-ID code)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the length of the pause automatically entered between access code and ID code when the NCC (New Common Carrier) line is used for dialing.

5.1.3.4 <006: NCC pause length (post-ID code)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the length of the pause automatically entered between ID code and telephone number of the other party when the NCC (New Common Carrier) line is used for dialing.

5.1.3.5 <010: line connection identification length>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the time for identifying the line connection. Raise this parameter if errors occur frequently at time of communication because of the condition of the line.

Memo:

Any of the following error codes may be indicated because of the condition of the line

##0005, ##0018

The line condition identification time is between when the dial signal is transmitted and when the line condition is cut for the transmitting party, while it is between when the DIS signal is transmitted and when the line is cut for the receiving party.

5.1.3.6 <011: T.30 T1 timer (for reception)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set the T1 timer for the receiver (wait time after DIS transmission starts until a significant signal is received).

5.1.3.7 <013: T.30 EOL timer>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set it so that the 1-line transmission time is longer for reception to prevent reception errors caused by a long data length per line (e.g., computer FAX).

5.1.3.8 <016: time length to first response at time of fax/tel switchover>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Allows setting of the time from seizing the line till pseudo RBT is sent, when the Fax/ Tel switching function is operating.

5.1.3.9 <017: pseudo RBT signal pattern ON time length><018: pseudo RBT signal pattern OFF time length (short)><019: pseudo RBT signal pattern OFF time length (long)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the pattern of the pseudo RBT signal transmitted at time of a fax/tel switchover.

5.1.3.10 <020: pseudo CI signal pattern ON time length><021: pseudo CI signal pattern OFF time length (short)><022: pseudo CI signal pattern OFF time length (long)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the pseudo CI signal pattern transmitted at time of a fax/tel switchover.

5.1.3.11 <023: CNG detention level for fax/tel switchover>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the CNG detention level for a fax/tel switchover.

5.1.3.12 <024: pseudo RBT transmission level at time of fax/tel switchover>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to set the pseudo transmission level for a fax/tel switchover.

5.1.3.13 <025: Answering machine connection function signal detection time>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Sets the signal detection time for the answering machine connection function operation. When the answering machine connection function is operating, if the function does not operate normally because the fax does not detect CNG signal sent from the line, raise this parameter to increase the signal detection time.

5.1.3.14 <027: V.21 low-speed flag preamble identification length>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to detect the time of detection after which command analysis is started after detecting V.21 low-speed command preambles continuously for a specific period of time.

5.1.3.15 <055: Acquisition period of environmental log data>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to change the acquisition period of environmental log data.

5.1.3.16 <056 - 061: Count type select >

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to confirm the count type indicated on the Counter Check screen, which appears in response to a press on the Counter key.

When '0' is selected, count type will not be indicated.

No.56: Use it to indicate the type of software counter 1 of the control panel. The type of soft counter 1 cannot be changed.

No.57: Use it to change the type of soft counter 2* of the control panel to suit the needs of the user.

No.58: Use it to change the type of soft counter 3* of the control panel to suit the needs of the user.

No.59: Use it to change the type of soft counter 4* of the control panel to suit the needs of the user.

No.60: Use it to change the type of soft counter 5* of the control panel to suit the needs of the user.

No.61: Use it to change the type of soft counter 6* of the control panel to suit the needs of the user.

*:The default type settings of soft counter is different from models.

<Soft Counter Specifications>

The soft counters are classified as follows in terms of input numbers:

100s: total

200s: copy
 300s: print
 400s: copy + print
 500s: scan
 700s: received file print
 800s: report print
 900s: transmitted scan

Guide to the Table

- 1: Count sheets of all sizes by one.
- 2: Count sheets of the large size by two.
- C: full color
- Bk: black mono
- L: large size (larger than A4/LTR)
- S: small size (A4/LTR or smaller)

MEMO:

To make a change so that B4 papers (for print) will be counted as large-size, use service mode: make the following selections, and change bit 0 to '1': #SSSW>SW33.
 To make a change so that B4 papers (for scan) will be counted as large-size, use service mode: make the following selections, and change bit 2 to '1': #SSSW>SW33.

Serial No. on counter check screen	Counter type	Print system															
		Bk 1-sided L				Bk 1-sided S				Bk 2-sided L				Bk 2-sided S			
		Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print
101	Total1	1	1	1	1	1	1	1	1								
102	Total2	2	2	2	2	1	1	1	1								
103	Total (L)	1	1	1	1												
104	Total (S)					1	1	1	1								
108	Total (Bk1)	1	1	1	1	1	1	1	1								
109	Total (Bk2)	2	2	2	2	1	1	1	1								
112	Total (Bk/L)	1	1	1	1												
113	Total (Bk/S)					1	1	1	1								
114	Total1 (2-sided)									1	1	1	1	1	1	1	1
115	Total2 (2-sided)									2	2	2	2	1	1	1	1
116	L (2-sided)									1	1	1	1				
117	S (2-sided)													1	1	1	1
126	TotalA1		1	1	1		1	1	1								
127	TotalA2		2	2	2		1	1	1								
128	TotalA (L)		1	1	1												
129	TotalA (S)						1	1	1								
132	TotalA (Bk1)		1	1	1		1	1	1								
133	TotalA (Bk2)		2	2	2		1	1	1								
136	TotalA (Bk/L)		1	1	1												
137	TotalA (Bk/S)						1	1	1								
138	TotalA1 (2-sided)										1	1	1		1	1	1
139	TotalA2 (2-sided)										2	2	2		1	1	1
140	L A (2-sided)										1	1	1				
141	S A (2-sided)														1	1	1
150	TotalB1		1	1	1		1	1	1								
151	TotalB2		2	2	2		1	1	1								
152	TotalB (L)		1	1	1												
153	TotalB (S)						1	1	1								
156	TotalB (Bk1)		1	1	1		1	1	1								
157	TotalB (Bk2)		2	2	2		1	1	1								
160	TotalB (Bk/L)		1	1	1												
161	TotalB (Bk/S)						1	1	1								
162	TotalB1 (2-sided)										1	1	1		1	1	1
163	TotalB2 (2-sided)										2	2	2		1	1	1
164	LB (2-sided)										1	1	1				
165	SB (2-sided)														1	1	1
201	Copy(Total1)	1				1											
202	Copy(Total2)	2				1											
203	Copy(L)	1															
204	Copy(S)					1											
205	CopyA (Total1)	1				1											
206	CopyA (Total2)	2				1											
207	CopyA (L)	1															
208	CopyA (S)					1											

Serial No. on counter check screen	Counter type	Print system															
		Bk 1-sided L				Bk 1-sided S				Bk 2-sided L				Bk 2-sided S			
		Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print
209	Local copy(Total1)	1				1											
210	Local copy(Total2)	2				1											
211	Local copy(L)	1															
212	Local copy(S)					1											
221	Copy(Bk1)	1				1											
222	Copy(Bk2)	2				1											
227	Copy(Bk/L)	1															
228	Copy(Bk/S)					1											
237	Copy(Bk/L/2-sided)									1							
238	Copy(Bk/S/2-sided)													1			
249	CopyA (Bk1)	1				1											
250	CopyA (Bk2)	2				1											
255	CopyA (Bk/L)	1															
256	CopyA (Bk/S)					1											
265	CopyA (Bk/L/2-sided)									1							
266	CopyA (Bk/S/2-sided)													1			
277	Local copy(Bk1)	1				1											
278	Local copy(Bk2)	2				1											
283	Local copy(Bk/L)	1															
284	Local copy(Bk/S)					1											
293	Local copy(Bk/L/2-sided)									1							
294	Local copy(Bk/S/2-sided)													1			
301	Print (Total1)		1		1		1		1								
302	Print (Total2)		2		2		1		1								
303	Print (L)		1		1												
304	Print (S)						1		1								
305	PrintA (Total1)		1		1		1		1								
306	PrintA (Total2)		2		2		1		1								
307	PrintA (L)		1		1												
308	PrintA (S)						1		1								
313	Print (Bk1)		1		1		1		1								
314	Print (Bk2)		2		2		1		1								
319	Print (Bk/L)		1		1												
320	Print (Bk/S)						1		1								
329	Print (Bk/L)										1		1				
330	Print (Bk/S/2-sided)														1		1
331	PDL print (Total1)		1				1										
332	PDL print (Total2)		2				1										
333	PDL print (L)		1														
334	PDL print (S)						1										
339	PDL print (Bk1)		1				1										
340	PDL print (Bk2)		2				1										
345	PDL print (Bk/L)		1														
346	PDL print (Bk/S)						1										
355	PDL print (Bk/L/2-sided)										1						
356	PDL print (Bk/S)														1		
403	Copy+Print (Bk/L)	1	1		1												
404	Copy+Print (Bk/S)					1	1		1								
405	Copy+Print (Bk2)	2	2		2	1	1		1								
406	Copy+Print (Bk1)	1	1		1	1	1		1								
411	Copy+Print (L)	1	1		1												
412	Copy+Print (S)					1	1		1								
413	Copy+Print (2)	2	2		2	1	1		1								
414	Copy+Print (1)	1	1		1	1	1		1								
421	Copy+Print (Bk/L)									1	1		1				
422	Copy+Print (Bk/S)													1	1		1
701	Received print (Total1)																
702	Received print (Total2)																
703	Received print (L)																

Serial No. on counter check screen	Counter type	Print system															
		Bk 1-sided L				Bk 1-sided S				Bk 2-sided L				Bk 2-sided S			
		Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print
704	Received print (S)																
709	Received print (Bk1)																
710	Received print (Bk2)																
715	Received print (Bk/L)																
716	Received print (Bk/S)																
725	Received print (Bk/L/2-sided)											1					
726	Received print (Bk/S/2-sided)															1	
801	Report print (Total1)																
802	Report print (Total2)																
803	Report print (L)																
804	Report print (S)																
809	Report print (Bk1)																
810	Report print (Bk2)																
815	Report print (Bk/L)																
816	Report print (Bk/S)																
825	Report print (Bk/L)												1				
826	Report print (Bk/S)																1

Serial No. on counter check screen	Counter type	Scan system															
		Bk 1-sided L							Bk 1-sided S	C 1-sided L							C 1-sided S
		Total scan	Pull scan	E-mail scan	FileShare DB scan	E-mail FileShare DB scan	FileShare DB Box scan	E-mail FileShare DB Box		Total scan	Total scan	Pull scan	E-mail scan	FileShare DB scan	E-mail FileShare DB scan	FileShare DB scan	
501	Scan (Total1)	1								1							
505	Bk scan (Total1)	1							1								
506	Bk scan (Total2)	2							1								
507	Bk scan (L)	1															
508	Bk scan (S)								1								
509	C scanTotal (1)									1							1
510	C scanTotal (2)									2							1
511	C scan (L)									1							
512	C scan (S)																1
915	Transmission scan total2 (C)															1	
916	Transmission scan total2 (Bk)							1									
917	Transmission scan total3 (C)												1				
918	Transmission scanTotal3 (Bk)					1											
921	Transmission scanTotal5 (C)												1				
922	Transmission scanTotal5 (Bk)				1												
929	Transmission scanTotal6 (C)														1		
930	Transmission scanTotal6 (Bk)						1										
939	Remote scan (C)										1						
940	Remote scan (Bk)		1														
945	Transmission scan/E-mail (C)																
946	Transmission scan/E-mail (Bk)											1					

5.1.4 Scanner Function Settings (SCANNER)

5.1.4.1 Setting of Bit Switch

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<SCAN SW SSSW01>

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Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Outputting an Image for ADF Perpendicularity Adjustment	output	not output
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-


Specify whether to output an image for ADF perpendicularity adjustment.

5.1.4.2 Numeric Parameter Functional configuration

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

No.	Function	Default	Setting range	Unit
001: - 023:	Not used			
024:	CIS scan position during ADF scanning.	385	300-450	one unit=0.1mm
025:	Not used			
026:	Distance from the standby position of CIS to the shading start point.	22	6-48	one unit=0.1mm
027: - 030:	Not used			
031:	Vertical scan start position adjustment	35	0-70	one unit=0.1mm
032:	Horizontal scan start position adjustment	115	50-150	one unit=0.1mm
033:	Vertical scan magnification correction	16	0-32	one unit=0.1%
034:	Not used			
035: - 036:	Reader motor speed adjustment	474		
037: - 040:	Not used			
041:	Vertical scan start position adjustment (scanning on ADF)	35	0-70	one unit=0.1mm
042:	Horizontal scan start position adjustment (scanning on ADF)	220	170-270	one unit=0.1mm
043:	Horizontal scan end position correction (copy:scanning on ADF)	24	0-200	one unit=0.1mm
044:	Horizontal scan end position correction (superfine:scanning on ADF)	36	0-200	one unit=0.1mm
045:	Horizontal scan end position correction (fine:scanning on ADF)	47	0-200	one unit=0.1mm

No.	Function	Default	Setting range	Unit
046:	Horizontal scan end position correction (standard:scanning on ADF)	47	0-200	one unit=0.1mm
047:	Vertical scan magnification correction (scanning on ADF)	16	0-32	one unit=0.1%
048:	Horizontal scan magnification correction (scanning on ADF)	16	0-32	one unit=0.1%
049: - 053:	Not used			
054:	Pickup motor speed correction (when the ADF is used)	16	0-32	one unit=0.1%
055: - 192:	Not used			
193:	ADF special paper, standardized size: LGL misidentification-ready	0	0 : LEGAL 1 : FOOLSCAP 2 : M_OFFICIO 3 : A_FOOLSCAP 4 : FOLIO 5 : G_LEGAL 6 : A_OFFICIO 7 : B_OFFICIO	
194:	ADF special paper, standardized size: LTR misidentification-ready	0	0 : LTR 1 : G_LTR 2 : A_LTR	
195:	ADF special paper, standardized size: LTR_R misidentification-ready	0	0 : LTR_R 1 : FOOLSCAP 2 : OFFICIO 3 : E_OFFICIO 4 : G_LTR_R 5 : A_LTR_R	
196:	shading target value (red)	272	0-511	
197:	shading target value (green)	272	0-511	
198:	shading target value (blue)	272	0-511	
199: - 212:	Not used			
213:	XYZ correction value (X) of standard white plate	8273	1-9999	
214:	XYZ correction value (Y) of standard white plate	8737	1-9999	
215:	XYZ correction value (Z) of standard white plate	9427	1-9999	
216: - 350:	Not used			

 If any operation error occurs after changing the setting value, change the setting value to the original one.

5.1.4.3 <024:CIS scan position during ADF scanning>


iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

This value is used when automatic scan position adjustment (TESTMODE>"2"SCAN TEST>"3"SHEET POS ADJ) fails.

5.1.4.4 <026:Distance from the standby position of CIS to the shading start point>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

White shading can be adjusted finely.

 Normally, do not change the setting value. If any operation error occurs after changing the setting value, change the setting value to the original one.

5.1.4.5 <031Vertical scan start position adjustment>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which vertical scanning of a book starts. The larger the adjustment value, the narrower the left-side margin of the image becomes.

5.1.4.6 <032Horizontal scan start position adjustment>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a book starts. The larger the adjustment value, the narrower the top margin in the image becomes.

5.1.4.7 <033Vertical scan magnification correction>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Correct the magnification of vertical scanning of a book. The larger the adjustment value, the more the image stretches in the vertical scanning direction.

5.1.4.8 <035: - 036:Reader motor speed change>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Though no market adjustment work needs to be carried out, enter factory defaults at image processor PCB replacement.

5.1.4.9 <041: Vertical scan start position adjustment (when scanning on a document fed from ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which vertical scanning of a document fed from the ADF starts. The larger the adjustment value, the narrower the left-side margin of the image becomes.

5.1.4.10 <042: Horizontal scan start position adjustment (when scanning on a document fed from ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a document fed from the ADF starts. The larger the adjustment value, the narrower the top margin of the image becomes.

5.1.4.11 <043: Horizontal scan end position correction ((copy:scanning on ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a document being copied ends (when scanning on a document fed from ADF). The larger the adjustment value, the narrower the bottom margin of the image becomes.

5.1.4.12 <044: Horizontal scan end position correction (superfine:scanning on ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a FAX document scanned in superfine mode ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

5.1.4.13 <045: Horizontal scan end position correction (fine:scanning on ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a FAX document scanned in fine mode ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

5.1.4.14 <046: Horizontal scan end position correction (standard:scanning on ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the position at which horizontal scanning of a FAX document set to the standard scan resolution ends. The larger the adjustment value, the narrower the bottom margin of the image becomes.

5.1.4.15 <047: Vertical scan magnification correction (when scanning on a document fed from ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Correct the magnification of vertical scanning of a document fed from the ADF. The larger the adjustment value, the more the image stretches in the vertical scanning direction.

5.1.4.16 <048: Horizontal scan magnification correction (when scanning on a document fed from ADF)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Correct the magnification of horizontal scanning of a document fed from the ADF. The smaller the adjustment value, the more the image stretches in the horizontal scanning direction.

This menu is used to adjust the ADF feed motor speed. If you changed the adjustment value in this mode, the adjustment value selected for SCAN NUMERIC>54 must also be incremented/decremented by the same amount.



Do not change the adjustment value extremely.

5.1.4.17 <193: ADF special standard-sized paper: LGL misidentification-ready>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LEGAL").

0: LEGAL
1: FOOLSCAP
2: M_OFFICIO
3: A_FOOLSCAP
4: FOLIO
5: G_LEGAL
6: A_OFFICIO
7: B_OFFICIO

5.1.4.18 <194: ADF special standard-sized paper: LTR misidentification-ready>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LTR").

0: LTR
1: G_LTR
2: A_LTR

5.1.4.19 <195: ADF special standard-sized paper: LTR_R misidentification-ready>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set to use special standard-sized paper that is not otherwise identifiable to the ADF (because it is misidentified as "LTRR").

0: LTR_R
1: FOOLSCAP
2: OFFICIO
3: E_OFFICIO
4: G_LTR_R
5: A_LTR_R

5.1.4.20 <196: Shading Target Value (Red)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

This is market-related measures taken to improve shadow images generated by a thick original such as a book or a folded or wrinkled original. When taking the measures, assign the same values for R, G, and B. After changing the values, be sure to turn off the power and turn it on again.

5.1.4.21 <197: Shading Target Value (Green)>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

This is market-related measures taken to improve shadow images generated by a thick original such as a book or a folded or wrinkled original. When taking the measures, assign the same values for R, G, and B. After changing the values, be sure to turn off the power and turn it on again.

5.1.4.22 <198: Shading Target Value (Blue)>

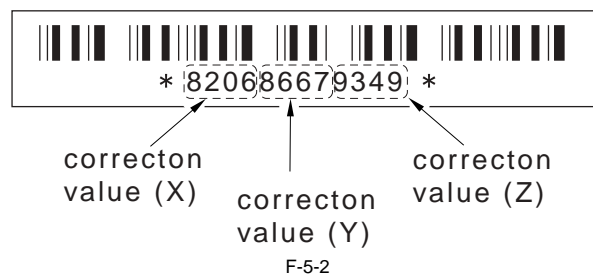
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

This is market-related measures taken to improve shadow images generated by a thick original such as a book or a folded or wrinkled original. When taking the measures, assign the same values for R, G, and B. After changing the values, be sure to turn off the power and turn it on again.

5.1.4.23 <213: XYZ correction value (X) of standard white plate> (if equipped with SEND functions))

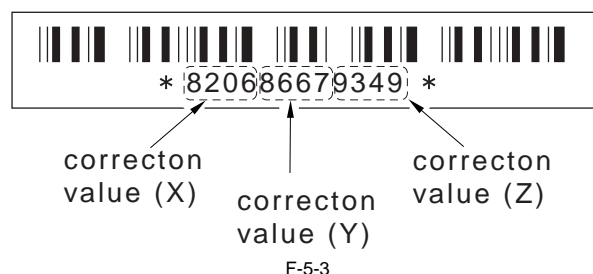
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If you replaced the image processor PCB, enter values indicated on the service label. If you have replaced the document glass, enter values indicated on the new document glass and write the values on the service label.

**5.1.4.24 <214: XYZ correction value (Y) of standard white plate> (if equipped with SEND functions)**

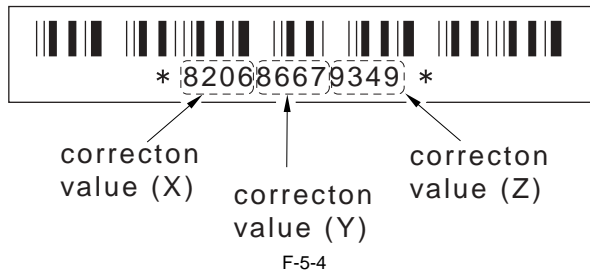
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If you replaced the image processor PCB, enter values indicated on the service label. If you have replaced the document glass, enter values indicated on the new document glass and write the values on the service label.

**5.1.4.25 <215: XYZ correction value (Z) of standard white plate> (if equipped with SEND functions)**

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If you replaced the image processor PCB, enter values indicated on the service label. If you have replaced the document glass, enter values indicated on the new document glass and write the values on the service label.



5.1.5 Printer Function Settings (PRINTER)

5.1.5.1 Service Soft Switch Settings

5.1.5.1.1 SSSW-SW05

List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i 0017-6141

T-5-20			
Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	priority on recording in sub scanning direction	place	do not place

Detailed Discussions of Bit 7

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i 0017-6142

Use it to enable/disable placement of priority on recording in sub scanning direction.

T-5-21	
place:	if B4 recording paper and A4 recording paper are set and an A4 extra-long image (*) is received, printing will be on the B4 recording paper.
do not place:	if B5 horizontal recording paper and A4 recording paper are set and a B4 image is received, printing will be by division and on B5 horizontal recording paper.

*: Image B4 or shorter and that cannot be printed by division and on A4 recording paper.

5.1.5.1.2 SSSW-SW14

List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i 0017-6143

T-5-22			
Bit	Function	1	0
0	Transfer bias pressure reduction mode	Enable	Disable
1	Developing assembly idling mode	Enable	Disable
2	Black belt addition mode	Enable	Disable
3	Post-rotation reduction mode	Enable	Disable

Bit	Function	1	0
4	Flicker reduction mode	Enable	Disable
5	Silent mode	Enable	Disable
6	Terminal temperature rise noise reduction mode	Enable	Disable
7	Not used	-	-

Detailed Discussions of Bit 0

[0017-6144](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable transfer bias pressure reduction mode.

Select "Enable" to avoid image defects (black spots) produced by transfer bias leaks occurring in a low-pressure region, such as one at a high altitude. This setting regulates the transfer bias to keep it from exceeding a predetermined level during printing.

Detailed Discussions of Bit 1

[0017-6146](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable developing assembly idling mode. Select "Enable" to drive the main motor for a specified period of time to apply idling and developing bias (AC + DC) to prevent the thinning of the image density when the unit is installed or the developing unit is replaced in a low-temperature, low-humidity region. This mode works only on a new developing assembly and before a toner cartridge is loaded.

Detailed Discussions of Bit 2

[0017-6147](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable black belt addition mode. If the user uses paper that causes fixed toner on paper to be fused and adhered to drum, selecting "Yes" will clean the drum by forming a black band on the drum surface during the reverse rotation which is performed after printing on 50 sheets.



Implementation of this mode could result in a drum life falling short of its life expectancy.

Detailed Discussions of Bit 3

[0017-6148](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable post-rotation reduction mode. Selecting "Enable" will reduce the noise caused by the polygon motor by stopping the motor immediately after post-rotation.

Detailed Discussions of Bit 4

[0017-6149](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable flicker reduction mode. Select "Enable" and enter a count to modify fusing temperature control to cancel fluorescent flicking during printing.



Implementation of this mode would degrade the throughput.

Detailed Discussions of Bit 5

[0017-6150](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable silent mode. Select "Enable" to modify the registration loop amount and thus reduce noises or squeaks the registration rollers produce after picking paper from the individual paper inlets.

Detailed Discussions of Bit 6

[0017-6151](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Select whether to enable or disable noise reduction mode during terminal temperature rises. Select "Enable" to start slowdown at a temperature lower than normal when printing on smaller-sized paper than B4. Slowdown control thus enabled prevents the thermal degradation of the fusing film grease, assuring smooth sliding among the fixing film, heater and film guide to cut squeaks.

5.1.5.1.3 SSSW-SW15

List of Functions

[0017-6152](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-5-23

Bit	Function	1	0
0	Inhibit automatic delivery tray replacement while running jobs	Enable	Disable

Bit	Function	1	0
1	Halt stapling job when out of staples	Enable	Disable
2	Inhibit tray full indication while the stapled document count is exceeded	Enable	Disable
3	IFAX Permission of split recording of text data	Enable	Disable
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 0

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6153

Select whether to inhibit automatic delivery tray replacement while running jobs with an inner two-way tray mounted in position. Select "Enable" to inhibit automatic tray replacement.

Detailed Discussions of Bit 1

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6154

Select whether to halt stapling job when a finisher installed has run out of staples. Select "Enable" to halt staple jobs when the finisher has run out of staples.

Detailed Discussions of Bit 2

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-6155

Select whether to display a tray full message when the maximum allowable stapled document count is exceeded with a finisher installed. Select "Enable" not to display the message.

Detailed Discussions of Bit 3

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-8532

Select whether split recording is to be enabled when text data such as a header and body text is recorded. Selecting "Set" may split text data when a small paper size such as A5 is selected. In this case, a page may be split in the middle of a character string.

5.1.5.1.4 SSSW-SW18

List of Functions

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-8533

T-5-24

Bit	Function	1	0
0	Limit temperature of temperature adjustment	Enable	Disable
1	Shift of the temperature adjustment when at auto duplex	Enable	Disable
2	Thin post card mode	Enable	Disable
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

Detailed Discussions of Bit 0

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

0017-8534

If there is no progress after shifting the target figure of the temperature adjustment using "Temperature Adjustment UP/DOWN Mode", # PRINTER> Numeric>

Parameter 62, 63, cancel the inner limit of the fixed temperature adjustment.
To cancel the inner limit of the fixed temperature adjustment, select "Setting".

Detailed Discussions of Bit 1

0017-8535

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If there is no progress after shifting the target figure of the temperature adjustment using "Temperature Adjustment UP/DOWN Mode", # PRINTER> Numeric> Parameter 62, 63, cancel the 2nd face of the duplex inner limit of the fixed temperature adjustment.
Select "Setting" to cancel the 2nd face of the duplex inner limit of the fixed temperature adjustment.

Detailed Discussions of Bit 2

0017-8536

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

When selecting the post cards, besides the 'Reply post card', 'Post card', and the 'Four face post card', 'Thin post card' could be selected. Select 'Setting' and 'Thin post card' would be selected.

5.1.5.2 Numeric Parameter Settings (NUMERIC Param.)

5.1.5.2.1 List of Functions

0017-6156

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

No.	Function	Default	Setting range
01: - 30:	Not used		
31:	Top registration adjustment (manual feed tray)	50	0 to 100, one unit = 0.1 mm
32:	Top registration adjustment (cassette)	50	0 to 100, one unit = 0.1 mm
33:	Top registration adjustment (duplex unit)	50	0 to 200, one unit = 0.1 mm
34:	Left-end registration adjustment (manual feed tray)	100	0 to 200, one unit = 0.1 mm
35:	Left-end registration adjustment (cassette 1)	100	0 to 200, one unit = 0.1 mm
36:	Left-end registration adjustment (cassette 2)	100	0 to 200, one unit = 0.1 mm
37:	Left-end registration adjustment (cassette 3)	100	0 to 200, one unit = 0.1 mm
38:	Left-end registration adjustment (cassette 4)	100	0 to 200, one unit = 0.1 mm
39:	Left-end registration adjustment (duplex unit)	100	0 to 200, one unit = 0.1 mm
40:	Target fixing temperature adjustment (multi)	6	-30 to 0, one unit = 5 deg C
41:	Target fixing temperature adjustment (cassette 1)	6	-30 to 0, one unit = 5 deg C
42:	Target fixing temperature adjustment (cassette 2)	6	-30 to 0, one unit = 5 deg C
43:	Target fixing temperature adjustment (cassette 3)	6	-30 to 0, one unit = 5 deg C
44:	Target fixing temperature adjustment (cassette 4)	6	-30 to 0, one unit = 5 deg C
45:	Fixing film speed change (manual feed tray)	16	0 to 30, 1 unit = 0.4%
46:	Fixing film speed change (cassette)	16	0 to 30, 1 unit = 0.4%
47: - 52:	Not used		
53:	Adjustment of margin at leading edge of copy	0	0 to 9999, one unit = 0.1 mm
54:	Adjustment of margin at trailing edge of copy	0	0 to 9999, one unit = 0.1 mm
55:	Adjustment of margin at right edge of copy	0	0 to 9999, one unit = 0.1 mm
56:	Adjustment of margin at left edge of copy	0	0 to 9999, one unit = 0.1 mm
57:	Not used		
58:	Adjustment of the registration loop volume (Manual tray)	100	85 to 115, one unit = 0.5 mm
59:	Adjustment of the registration loop volume (Cassette)	100	85 to 115, one unit = 0.5 mm
60:	Adjustment of the registration loop volume (Optional cassette)	100	85 to 115, one unit = 0.5 mm
61:	Adjustment of the registration loop volume (Duplex unit)	100	85 to 115, one unit = 0.5 mm
62:	Temperature adjustment UP/DOWN mode (For normal paper)	7	0 to 14, one unit = 5 deg C
63:	Temperature adjustment UP/DOWN mode. (For thick paper)	7	0 to 14, one unit = 5 deg C
64:	Mode for preventing the end temperature rise	0	0 to 5
65:	Mode for reducing sand image	0	0 to 3
66:	Temperature/ Humidity sensor fixed mode	0	0 to 3
67: - 70:	Not used		

5.1.5.2.2 <031: Top registration adjustment (manual feed tray)>

0017-6157

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the top registration margin of paper picked from a manual feed tray. The larger the adjustment value, the wider the top margin of the image becomes.

5.1.5.2.3 <032: Top registration adjustment (cassette)>

0017-6158

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the top registration margin of paper picked from cassettes. The larger the adjustment value, the wider the top margin of the image becomes.

5.1.5.2.4 <033: Top registration adjustment (duplex unit)>

[0017-6159](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the top registration margin of paper picked from a duplex unit. The larger the adjustment value, the wider the top margin of the image becomes.

5.1.5.2.5 <034: Left-end registration adjustment (manual feed tray)>

[0017-6160](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from a manual feed tray. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.6 <035: Left-end registration adjustment (cassette 1)>

[0017-6162](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from cassette 1. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.7 <036: Left-end registration adjustment (cassette 2)>

[0017-6163](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from cassette 2. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.8 <037: Left-end registration adjustment (cassette 3)>

[0017-6164](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from cassette 3. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.9 <038: Left-end registration adjustment (cassette 4)>

[0017-6165](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from cassette 4. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.10 <039: Left-end registration adjustment (duplex unit)>

[0017-6166](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the left-end registration margin of paper picked from a duplex unit. The larger the adjustment value, the wider the left-end margin of the image becomes.

5.1.5.2.11 <040: Target fixing temperature adjustment (manual feed tray)>

[0017-6167](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Lower the fixing temperature from the target temperature setting to reduce the chances of fixing offsets and curled or stuck delivered sheets occurring with paper picked from a manual feed tray.

5.1.5.2.12 <045: Fixing film speed change (manual feed tray)>

[0017-6172](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Change the fixing film speed to reduce the chances of streaks appearing in the trailing edge of images caused by shocks from the fixing roller out of position while picking paper from a manual feed tray.

5.1.5.2.13 <046: Fixing film speed change (cassette)>

[0017-6173](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Change the fixing film speed to reduce the chances of streaks appearing in the trailing edge of images caused by shocks from the fixing roller out of position while picking paper from a cassette.

5.1.5.2.14 <053: Margin adjustment at the leading edge of the copy>

[0017-6168](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the margin at the leading edge of the copy. Increasing the value makes the margin at the leading edge larger.

5.1.5.2.15 <054: Margin adjustment at the trailing edge of the copy>

[0017-6169](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the margin at the trailing edge of the copy. Increasing the value makes the margin at the trailing edge larger.

5.1.5.2.16 <055: Margin adjustment at the right edge of the copy>

[0017-6170](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the margin at the right edge of the copy. Increasing the value makes the margin at the right edge larger.

5.1.5.2.17 <056: Margin adjustment at the left edge of the copy>[0017-6171](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Adjust the margin at the left edge of the copy. Increasing the value makes the margin at the left edge larger.

5.1.5.2.18 <058:: Adjustment of the registration loop volume (Manual feed tray)>[0017-8644](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If there is a registration loop noise and abrasion while feeding the paper from the manual feed tray, registration loop noise and abrasion could be reduced by adjusting the volume of the registration loop. By making the value larger, loop volume will become bigger.

5.1.5.2.19 <059: Adjustment of the registration loop volume. (Cassette)>[0017-8645](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If there is a registration loop noise and abrasion while feeding the paper from the cassette, registration loop noise and abrasion could be reduced by adjusting the volume of the registration loop. By making the value larger, loop volume will become bigger.

5.1.5.2.20 <060: Adjustment of the registration loop volume (Option cassette)>[0017-8646](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If there is a registration loop noise and abrasion while feeding the paper from the option cassette, registration loop noise and abrasion could be reduced by adjusting the volume of the registration loop. By making the value larger, loop volume will become bigger.

5.1.5.2.21 <061: Adjustment of the registration loop volume. (Duplex unit)>[0017-8648](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

If there is a registration loop noise and abrasion while feeding the paper from the duplex unit, registration loop noise and abrasion could be reduced by adjusting the volume of the registration loop. By making the value larger, loop volume will become bigger.

5.1.5.2.22 <062: Temperature adjustment UP/DOWN mode. (For plain paper)>[0017-8649](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

For plain paper relation, the volume of the temperature adjustment offset could be changed by 5 deg C at a time to aim the fixed temperature.

For plain paper relation : Normal, Normal Lo, rough paper Lo, thin post card, and OHP mode.

0 to 6: -35 to -5 deg C (1unit=5deg C)

7: 0 deg C

8 to 14: +5 to +35 deg C (1unit=5deg C)

5.1.5.2.23 <063: Temperature adjustment UP/DOWN mode. (For rough paper)>[0017-8650](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

For rough paper relation, the volume of the temperature adjustment offset could be changed by 5 deg C at a time to aim the fixed temperature.

For rough paper relation: rough paper, super rough paper, super rough paper H, post card, post card H, and envelope mode.

0 to 6: -35 to -5 deg C (1unit=5deg C)

7: 0 deg C

8 to 14: +5 to +35 deg C (1unit=5deg C)

5.1.5.2.24 <064: Mode for preventing the temperature rise of the end >[0017-8651](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set when the fixed film squeaks. Lower the target fixing temperature and extend sheet-to-sheet time except A4/A3/11X17/LTR size.

0: Normal

1 to 5: Mode for responding film squeak. (reference to the table below)

T-5-25

Setting	Print temperature control	Sheet-to-sheet temperature control	Sheet-to-sheet time
1	Target temperature-10 deg C	Print temperature control -20 deg C	0 sec extension
2	Target temperature-20 deg C	Print temperature control -20 deg C	0 sec extension
3	Target temperature-10 deg C	Print temperature control -20 deg C	10 sec extension
4	Target temperature-20 deg C	Print temperature control -20 deg C	10 sec extension
5	Target temperature-30 deg C	Print temperature control -20 deg C	15 sec extension

5.1.5.2.25 <065: Mode for reducing sand image>[0017-8655](#)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Set when sand image *1 has occurred on the print image.

Restraining the scatter of the toner by increasing the electric current of the AC electrification; the sand image could be reduced.

Sand image *1: Multiple black dots and white dots appear on half tone. Or multiple black dots appear on white background.

0: Normal.

1 to 3: Reducing mode. (Same operation to set 1 to 3)



There is a possibility that when using the "Reducing mode", the life of the drum will not meet the specified pieces.

5.1.5.2.26 <066:Temperature/ Humidity sensor fixed mode>

0017-8656

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Changing to high-pressure environment by using the temperature/ humidity sensor. But when there is an image trouble at the point of changing the environment, fix the temperature and the humidity and do not allow the change of the high-pressure output.

0: Normal

1: Fixed environment of LL. (Temperature of 10 deg C and humidity of 10%)

2: Fixed environment of NN. (Temperature of 20 deg C and humidity of 50%)

3: Fixed environment of HH. (Temperature of 30 deg C and humidity of 80%)

5.1.5.3 Setting of Cassette (CST)

5.1.5.3.1 Special Standard-sized Paper Compatibility

0017-6174

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

With a special paper compatibility kit (cassette size adjuster) installed, set the cassette paper size lever to paper size groups U1 to U3 to set the paper sizes listed below.

Paper size group	Setting (*default)	Paper name	Marking
U1	0*	Government LETTER	G-LTR
	29	Argentine LETTER	A-LTR
	31	Government LETTER	G-LTR
	40	8K	8K
U2	0*	FOOLSCAP	FLSP
	24	FOOLSCAP	FLSP
	26	OFFICIO	OFI
	27	Ecuadorian OFFICIO	E-OFI
	28	Bolivian OFFICIO	B-OFI
	36	Argentine Offico	A-OFI
	37	Mexican OFFICIO	M-OFI
	39	16K	16K
U3	0*	Government LEGAL	G-LGL
	25	Australian FOOLSCAP	AFLS
	30	Argentine LETTERR	ALTRR
	32	Government LETTERR	FLTRR
	34	Government LEGAL	G-LGL
	35	FORIO	FORIO

5.1.6 Network Parameter Settings (NETWORK)

5.1.6.1 Confirmation of contents of CA certificate

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Selecting the service mode "#NETWORK>#CERTIFICATE>#CA-CERTIFICATE" enables confirmation of the contents of the installed CA certificate.

5.1.7 Setting of System Functions (SYSTEM)

5.1.7.1 Bit Switch Settings

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

SSSW-SW03 functional configuration

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Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Imports and exports user information via USB.	Enable	Disable

Bit	Function	1	0
7	Not used	-	-

Bit 6 details

Select whether to enable the host machine to work as a USB storage device or not. If the host machine is plugged into a PC with this setting enabled, it allows user registration data (user data and telephone registration data) to be imported and exported to and from the PC, except for the data embedded in the department management information and user management IDs in the system management information.

5.1.8 Registration of Accessories (ACC)

5.1.8.1 Accessory Registration

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

The table below gives summary description of the accessories available.

Item	Explanation
#ACC	CARD
	Card reader installation setting Enter a card number to use. (0 to 9999. One hundred cards are registered with the department ID beginning from the input card number in sequence.) *1:1,000 cards if option ROM is mounted. When a card number is entered, the following kinds of management information are initialized: - Card name (department ID), beginning from the input card number. - Password associated with the card
	CC-SPSW
	Control card I/F support setting Set whether to support the control card I/F (CC-V) or not. 0: Do not support. 1: Support.
	COIN
	Coin vendor change Set the control card set display appearing on the operator station for vendor use. 0: Control card use 1: Coin vendor use
	CONTROL
	Set the PDL printer output control where the control card I/F (CC-V) is supported. 0: Enable printing without a card mounted. 1: Enable printing with a card mounted in position.

5.1.9 License Management (LMS)

5.1.9.1 Outline

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

LMS (License Management Service)

License Management System is to acquire a figure row from sending the information of the license certificate number, which is in the same package as option product, machine serial number and the name of the main machine to the server that has a license issue function on the Internet.

Option function will be able to be used by inputting the acquired figures from the main machine operation board through license registration screen in the users mode.

License option function is implemented on all the main system of the products, which is shipped from the factory, but it would not activate unless input operation has been made through the license registration screen.

Acquisition of the license key and registration of the device is basically done by the user. Detailed procedure is described in the users guide. However, as for reference, summary of the procedure is mentioned below.

(1) Access to LMS from the below URL and follow the direction on the screen to acquire the license key.

URL for LMS

<http://www.canon.com/lms/license/>

MEMO:

To acquire the license key, 16 digit figures on the license access number certificate and the device serial number (for example: ABC01234), which the license is going to be installed is necessary.

Device serial number will indicate on "Serial Number" when pressing the counter confirmation key on the main machine.

(2) Copy the license key of 24 digit figures, which is indicated on the WEB browser to the designated column on license access number certificate.



Reconfirm that there is no miss-copy of the 24 digit figures. Explain to the user that license access number certificate should be kept with care.

(3) Input the copy of the license key from; user mode > system management setting> license registration and press enter. The license key will be registered and function will activate.

If the function do not activate, error message will indicate. Confirm the points below due to contents of the error message.

"Value of the license key is incorrect. Confirm license key"

>> Using the license key, which was issued to another device?

>> Incorrect license key was input?

>> Proper license key used?

"This function is already active"

>> Isn't the relevant kit already active?

(4) Switch off the main power supply and after 10 seconds switch on the power supply again.

(5) Registered license will be active when after the power supply of the main device switch has been cut off once and put on again. Once the license starts properly, press counter confirmation key then press device configuration and confirm that in the option column that the relevant kit has been indicated.

5.1.9.2 Method of confirming license option

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Confirmation could be made whether the license option is active or not in the SOFT-ID PRM item by outputting the SPEC REPORT from the service mode.

Output method:

- Select '# REPORT' from service mode.
- Select '# REPORT OUTPUT'.
- Select '# REPORT OUTPUT SPEC LIST' and press 'OK'.

Check the SOFT-ID RPM column from the SPEC REPORT output. License is active on the items which indicates 'ON/ON'.

Related items:

BIT 00: BDL-IMAGE(1200) -> CARPS2
 BIT 05: BW-SEND -> SEND
 BIT 06: CL-SEND -> SEND
 BIT 09: BDL-IMAGE(600) -> CARPS2

5.1.9.3 Inactivity of the transmitted license

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Inactivity of the transmitted license

Situation of using this service mode

This service mode is to be used exceptionally on the assumption that when malfunction occurs on the device (caused by device) and the license to be transferred to the substitute device and to inactivate the license.

This operation is called 'Inactivity of the transmitted license'. Transmission could be selected to the same device and could be used to cease the function temporary. But if the license is made inactive by mistake, it is necessary to call the dealer to reactivate.

Take utmost precaution when inactivating the license

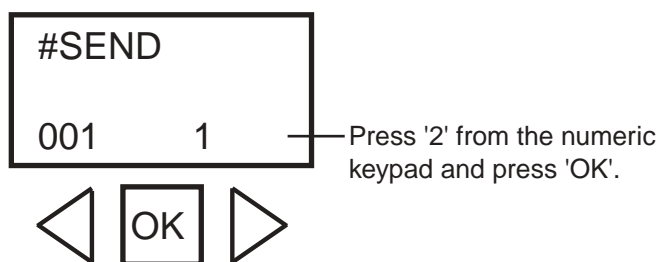
To inactive the license, operation through the service mode has to be made and to prove the function is inactive; issue of the function inactive certificate key is necessary.

This operation is valid to any of the each optional function and at the point of issuing the function inactive certificate key the function will be inactive and could not be used.

New license key to install to the transmitted device will be issued when the information of function inactive certificate key, serial number of the transmission origin device, serial number of new destination of transmitting device and the reason for transmitting is given to the dealer. Take a note of the new license key and after the registration to the new transmitted device, inform the user that the new license key should be kept with care.

Operation procedures

- (1) Go into the service mode and indicate the below mentioned service mode. (Key operation to go into the service mode is to be pressed one at a time. Orders are *, 2, 8, *).
- After going into the service mode, use the arrow on the both sides of the touch panel and press 'OK' if the decision is made.
- (2) Indicate '#LMS'.
- (3) Press 'OK' and indicate '#LMS INACTIVE'.
- (4) Indicate 'BDL-IMAGE (CARPS 2 for Japanese market) or 'SEND'.
- (5) Press 'OK'.
- (6) Press '2' from the numeric keypad and press 'OK'.



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1. Take a note of the license transmit number which will be indicated with 24 digits.
2. The indicated number is just for this operation and it would not be saved.
3. If the power is switched off, the indicated number will disappear and if the note of the number has not been taken, transmission of the license will be impossible.
4. Even pressing the reset key to clear the indication, there will be no recovery of the number.

Example of the transmitted license indication:



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- (7) Switch the power supply OFF/ON of the main machine.

Reference:

At procedure (4) when indicating the license option, it indicates '001 1'. The last digit '1' shows that the license is active. After transmitting the license the last digit will change to '2', which means that the license has been transmitted. If the option is standard equipped, the last digit will indicate '3', which means that the license could not be transmitted.

(8) Contact the dealer and inform the function inactive certificate key, serial number of the transmission origin device, and serial number of new transmitting device, which is necessary to transmit the license.

Upon given information above, new license key will be issued, which the license could be registered to the new transmitting device.

(9) Register the new license key to the transmitted device and confirm that the function is active.

5.1.10 eRDS Parameter Settings (E-RDS)

5.1.10.1 Settings Related to e-RDS

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Settings related to e-RDS are described below.

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Item	Description
E-RDS SWITCH	e-RDS OFF/ON setting (0:OFF / 1:ON)When used (ON), the counter information and error information are sent to UGW.Default: 0 (OFF)
RGW-ADDRESS	URL of UGWDefault: URL of actual UGWCharacter string length: 129 bytes (including NULL, one-byte codes only)
RGW-PORT	Port No. of UGW Default: 443Setting range: 1 to 65535
COM-TEST	Execution of communication test An attempt is made to connect to UGW, judges whether connection is successful, and displays "COM-TEST OK" or "COMTEST NG" as the judgment result.
COM-LOG	Details of communication test resultThe log of errors in communication with UGW is displayed. The error information includes the error occurrence time, error code, and details of the error.Maximum log count: 5Error information length: Max. 128 characters (excluding NULL)

5.1.11 Display of Counter Information (COUNTER)

5.1.11.1 Counters

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

This copier is furnished with a maintenance/supplies counter set (DRBL-1), which can be used to gain rough measures of when to replace supplies. The counter set increments by one on counting each sheet of small-sized paper (up to A4/LTR) and by two on counting each sheet of large-sized paper (larger than A4/LTR).

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Maintenance counter list		
Item	Counter	Explanation
TOTAL (Total counter)	SERVICE1	Service total counter 1
	SERVICE2	Service total counter 2
	TTL	Total counter
	COPY	Total copy counter
	PDL-PRT	PDL print counter
	FAX-PRT	Fax print counter
	REP-PRT	Report print counter
	2-SIDE	Double-sided copy/print counter
	SCAN	Scan counter
PICK-UP (Paper pickup counter)	C1	Cassette 1 jam counter
	C2	Cassette 2 jam counter
	C3	Cassette 3 jam counter
	C4	Cassette 4 jam counter
	MF	Manual feed tray pickup total counter
	2-SIDE	Double-sided paper pickup total counter
FEEDER (Feeder related counters)	FEED	Feeder pickup total counter
	DFOP-CNT	ADF open/close hinge counter

Maintenance counter list		
Item	Counter	Explanation
JAM (Jam counters)	TTL	Unit total jam count
	FEEDER	Feeder total jam count
	SORTER	Finisher total jam count
	2-SIDE	Duplex unit jam counter
	MF	Manual feed tray jam counter
	C1	Cassette 1 jam counter
	C2	Cassette 2 jam counter
	C3	Cassette 3 jam counter
	C4	Cassette 4 jam counter
MISC (Other required counter)	WST-TNR	Waste toner counter

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Parts counter list			
Item	Counter	Explanation	Service life
DRBL-1 (Unit supplies)	FX-UNIT	Fixing unit paper pass count	150,000
	TR-ROLL	Transfer charger roller high-voltage ON count	150,000
	DV-UNT-C	Developing unit rotation count	150,000
	M-PU-RL	Manual feed tray pickup roller paper pass count	150,000
	M-SP-PD	Manual feed tray separation pad paper pass count	150,000

5.1.11.2 Clearing Counters

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

- Maintenance/parts counter all clear

Execute service mode > CLEAR > COUNTER to clear all maintenance/parts counters.

- Counter clear on parts replacement

Press the numeric keypad key 0 after displaying the counter for a part just replaced, and the counter will be cleared individually.

5.1.12 Report Output (REPORT)

5.1.12.1 Report Output

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

The table below lists the kinds of reports that are supported.

Item	Explanation
SERVICE DATA LIST	Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date)
SYSTEM DATA LIST	Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date) System dump list output
SYSTEM DUMP LIST	Transmission count, reception count, record chart count, error count and other outputs
COUNTER REPORT	Counter output
ERROR LOG LIST	Jam and error history output
SPEC LIST	Type setting, print speed, memory size, ROM indication, adjustment data and other outputs
SERVICE LABEL	Output of an entry format for the service label affixed to the rear cover as shipped
ERDS COM LOG LIST	Output of communication error log information related to e-RDS
ENV. LOG LIST	Output of environmental log information

5.1.12.2 System Data List

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Use it to check the settings associated with the service soft switch and service parameters.

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- System Dump List

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*7: Total number of pages transmitted and received in each mode

*8: Total number of pages printed/scanned

*9: Total number of occurrences for error code

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Indication sample	1	7	3	0	0
##280					
##280	##281	##282			
number of errors	number of errors	number of errors			

It provides error information on the 3 most recent communications.

2003 09/02 TUE 12:00 FAX		001	
*1	#1 LATEST	#000	
*2	START TIME	09/02 10:00	
*3	OTHER PARTY	12345678	
*4	MAKER CODE	10001000	
*5	MACHINE CODE	0100001 00000000	
	RCV V.s FRAME	E0 81 85 D4 90 7E 00 00	
	SYMBOL RATE	3429 baud	
	DATA RATE	28800 bps [V.34]	
	TX LVL REDUCTION	0	
	ERR ABCODE	00	
	ERR SECTXB	00	
	ERR SECRXB	00	
*6	Rx : (bit 1)	00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)	
	(bit 57)	00000001 00000001 00000100 00000000 00000000	(bit 96)
*7	Tx : (bit 1)	00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)	
	(bit 57)	00000001 00000001 00000100 00000000 00000000	(bit 96)
*8	Rx : NSF CSI DIS	CFR	MCF MCF
*8	Tx : NSS TSI DCS	PIX-288 PPS-NUL	PIX-288 PPS-NUL PIX-288 PPS-NUL
	Rx : MCF	MCF	MCF
	Tx : PIX-288 PPS-NUL	PIX-288 PPS-EOP	DCN
#2	#000		
	START TIME	09/02 09:30	
	OTHER PARTY	12345678	
	MAKER CODE	10001000	
	MACHINE CODE	0100001 00000000	
	RCV V.s FRAME	E0 81 85 D4 90 7E 00 00	
	SYMBOL RATE	3429 baud	
	DATA RATE	28800 bps [V.34]	
	TX LVL REDUCTION	0	
	ERR ABCODE	00	
	ERR SECTXB	00	
	ERR SECRXB	00	
	Rx : (bit 1)	00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)	
	(bit 57)	00000001 00000001 00000100 00000000 00000000	(bit 96)
	Tx : (bit 1)	00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)	
	(bit 57)	00000001 00000001 00000100 00000000 00000000	(bit 96)
	Rx : NSF CSI DIS	CFR	MCF MCF
	Tx : NSS TSI DCS	PIX-288 PPS-NUL	PIX-288 PPS-NUL PIX-288 PPS-NUL
	Rx : MCF	MCF	MCF
	Tx : PIX-288 PPS-NUL	PIX-288 PPS-EOP	DCN
#3 OLDEST	#000		
	START TIME	09/02 09:00	
	OTHER PARTY	12345678	
	MAKER CODE	10001000	
	MACHINE CODE	0100001 00000000	
	RCV V.s FRAME	E0 81 85 D4 90 7E 00 00	
	SYMBOL RATE	3429 baud	
	DATA RATE	28800 bps [V.34]	
	TX LVL REDUCTION	0	
	ERR ABCODE	00	
	ERR SECTXB	00	
	ERR SECRXB	00	

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*1: service error code.

*2: START TIME, date and time (in 24-hr notation).

*3: OTHER PARTY, telephone number sent by the other party.

*4: MAKER CODE, manufacturer code.

*5: MACHINE CODE, model code.

*6: bit 1 through bit 96 of DIS, DCS, or DTC that has been received.

*7: bit 1 through bit 96 of DIS, DCS, or DTC that has been transmitted.

*8: RX, procedural signal received; TX, procedural signal transmitted.

5.1.12.4 Counter List

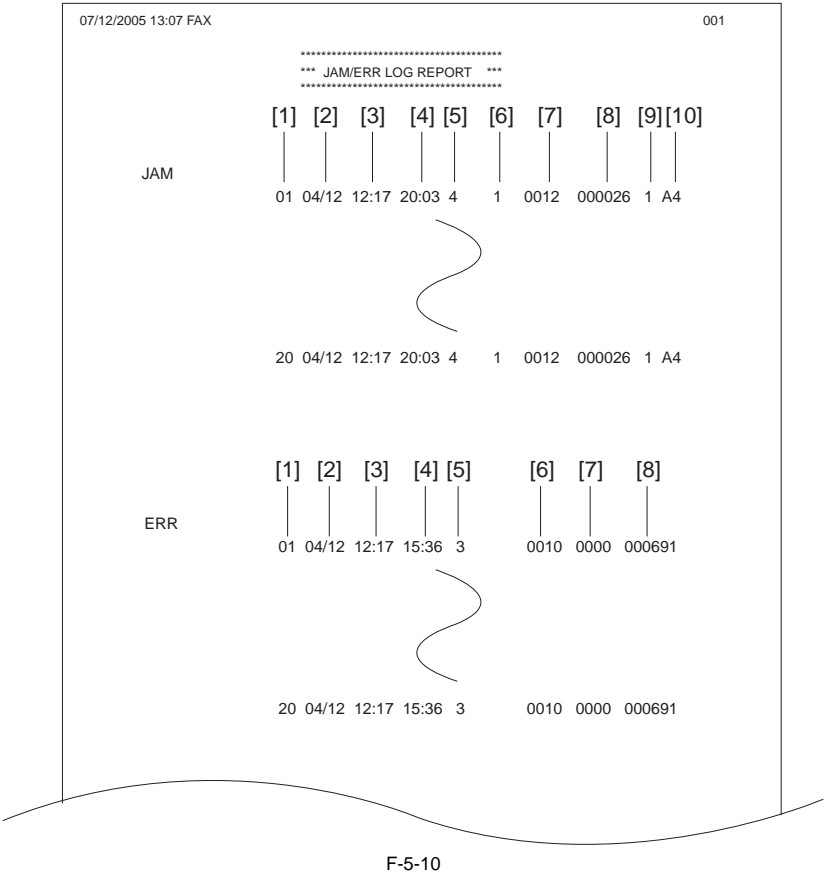
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Explanation: Maintenance/supplies counter output.

(For more detailed information about the maintenance/supplies counter output, execute service mode > Display counter information > Counters.)

5.1.12.5 Error Log List

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i



Jam history description (JAM)		
	Item	Explanation
[1]	Number	The larger the number of a jam, the more recently it has occurred.
[2]	Jam date	Date of jam occurrence
[3]	Jam time	
[4]	Jam recovery time	
[5]	Location	3: Host machine, 4: ADF, 5: Finisher
[6]	Occurrence category	0: Host machine, 1: ADF, 2: Finisher

Jam history description (JAM)			
	Item	Explanation	
[7]	Jam code	Code	Jam cause
	Host machine	0104	Pickup assembly delay jam
		0208	Pickup assembly stationary jam
		010c	Delivery assembly jam
		010e	Second delivery assembly delivery delay jam
		0210	Delivery stationary jam
		0212	Second delivery assembly stationary jam
		0214	Host machine retention paper jam
		1118	Door open jam
		0120	Duplexing paper sensor 1 delay jam
		0221	Duplexing paper sensor 1 stationary jam
		0124	Duplexing paper sensor 2 delay jam
		0228	Duplexing paper sensor 2 stationary jam
	ADF	0000	Unknown jam
		0007	Initial stationary
		0008	Read sensor delay jam
		0009	Read sensor stationary jam
		000a	Paper absence (Pull out the document.)
		000c	Delivery reversal sensor delay jam
		000d	Delivery reversal sensor stationary jam
		000e	ADF cover open error
		000f	User ADF open error
		0010	Pickup NG
	Finisher	0130	Inlet sensor delivery delay jam
		0231	Inlet sensor delivery stationary jam
		0033	Bundle delivery jam
		0035	Stapler jam
		1036	Power-on jam
		1137	Door open jam
[8]	Total counter display		
[9]	Pickup stage position	0: Manual feed tray, 1: Cassette 1, 2: Cassette 2, 3: Cassette 3, 4: Cassette 4	
[10]	Paper size		

Error history description (ERR)		
	Item	Explanation
[1]	Number	The larger the number of an error, the more recently it has occurred.
[2]	Error date	Date of error occurrence
[3]	Error time	
[4]	Location	3: Main unit, 5: Finisher
[5]	Error code	Error code (4-digit code; for a definition of the code, see the "Error Code" Chapter.)
[6]	Detail code	Detail code of the error code (4-digit code; for a definition of the code, see the "Error Code" Chapter.)
[7]	Total counter display	

5.1.12.6 Spec List

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

07/12/2005 13:07 FAX		001	
[1]		*****	
[2]		*** SPEC REPORT ***	
[3]		*****	
	TYPE	-----	JAPAN
	LBP SPEED	-----	25cpm
	TOTAL MEMORY	-----	256MB
	MAIN	-----	WLaa-08-01
[4]	OPTION	-----	WLaa-08-01
	BOOT	-----	WLaa-08-01
	LANG	-----	WLaa-08-01
	LANG LIBRARY (QVGA)	-----	000C0000
	LANG FILE (QVGA)	-----	
	ENGLISH	-----	000C0000
	JAPANESE	-----	000C0000
	BULGARIAN	-----	000C0000
	CATALAN	-----	000C0000
	CZECH	-----	000C0000
	DANISH	-----	000C0000
	SPANISH	-----	000C0000
	ESTONIAN	-----	000C0000
	FINNISH	-----	000C0000
	FRENCH	-----	000C0000
	GERMAN	-----	000C0000
	GREEK	-----	000C0000
	CROATIAN	-----	000C0000
	HUNGARIAN	-----	000C0000
	ITALIAN	-----	000C0000
	DUTCH	-----	000C0000
	NORWEGIAN	-----	000C0000
	POLISH	-----	000C0000
	PORTUGUESE	-----	000C0000
	ROMANIAN	-----	000C0000
	RUSSIAN	-----	000C0000
	SLOVAK	-----	000C0000
	SLOVENE	-----	000C0000
	SWEDISH	-----	000C0000
	TURKISH	-----	000C0000
	ECONT	-----	0309
	OPT-CAS 1	-----	0000
	OPT-CAS 2	-----	0000
	OPT-CAS 3	-----	0000
	OPT-DUP	-----	0000
	OPT-FIN	-----	0000
	ACTIBAT FUNCTION	-----	
[5]	BDL-IMAGE (1200)	-----	OFF
	FAX	-----	ON
	NETWORK	-----	ON
	PCL	-----	ON
	PC-SCAN	-----	ON
	BW-SEND	-----	OFF
	CL-SEND	-----	OFF
	PAF	-----	OFF
	BDL-IMAGE (600)	-----	OFF
	E-RDS	-----	OFF
	BAR-DIMM	-----	OFF
	SOFT-ID PRM	-----	
[6]	TYPE	-----	0 : NONE
	OPTION/ENABLE SW	-----	
	BIT 00: BDL-IMAGE (1200)	-----	ON / OFF
	BIT 01: FAX	-----	ON / OFF
	BIT 02: NETWORK	-----	ON / OFF
	BIT 03: PCL	-----	ON / OFF
	BIT 04: PC-SCAN	-----	OFF / OFF

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07/12/2005 13:07 FAX		002	
[6]	BIT 05: BW-SEND	-----	OFF / OFF
	BIT 06: CL-SEND	-----	OFF / OFF
	BIT 07: PAF	-----	OFF / OFF
	BIT 08: BDSS	-----	ON / OFF
	BIT 09: BDL-IMAGE (600)	-----	ON / OFF
	BIT 10: COUNTER	-----	ON / OFF
	BIT 11: E-RDS	-----	ON / OFF
	BIT 12: BAR-DIMM	-----	ON / OFF
	BODY No.	-----	MTExxxxx
	ENGINE CODE	-----	20000016
	SIZE TYPE	-----	0 : NONE
	PRODUCT NAME	-----	XXX
[7]	TOTAL	-----	000688
	TTL	-----	000685
	COPY	-----	000000
	FAX-PRT	-----	000000
	PDL-PRT	-----	000000
[8]	RPT-PRT	-----	000000
	READ ADJ PRM		
	026:	-----	0022
	031:	-----	0000
	032:	-----	0115
	033:	-----	0032
	034:	-----	0032
	041:	-----	0000
	042:	-----	0219
	043:	-----	0075
	044:	-----	0075
	045:	-----	0075
	046:	-----	0075
	047:	-----	0032
	048:	-----	0032
	054:	-----	0032
	213:	-----	0000
	214:	-----	0000
	215:	-----	0000
	WRITE ADJ PRM		
	031:	-----	0050
	032:	-----	0050
	033:	-----	0050
	034:	-----	0100
	035:	-----	0100
	036:	-----	0100
	037:	-----	0100
	038:	-----	0100
	039:	-----	0100
[9]	OPTION ROM	-----	16MB
[10]	USB MEMORY	-----	OFF
[11]	DELIVERY FULL SENSOR 1	-----	ON
[12]	DELIVERY FULL SENSOR 2	-----	OFF
[13]	USB SERIAL No.	-----	00XXXXXXXX
[14]	MAC ADDRESS	-----	00 00 85 51 60 1C
[15]	BACKUP BATTERY	-----	OFF
[16]	LUGIA	-----	2
[15]	NUMBER OF LOGS		
	ACTIVITY	-----	0
	PRINTJOB ACCOUNT	-----	0
	COPY	-----	0
	PDL PRINT	-----	0
	RX PRINT	-----	0
	REPORT	-----	0
	JAM	-----	3
[16]	SERVICE CALL	-----	0
	ENVIROMENT	-----	0

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- [1] Type setting
 [2] Print speed
 [3] Memory size
 [4] ROM version (MAIN/BOOT/LANG*1(language library/language file version)ECONT/option cassette/duplex unit/finisher)
 [5] Activation function ON/OFF
 [6] Soft ID information
 [7] Total counter (TOTAL/COPY/FAX/PDL/REPORT record counts)
 [8] Adjustment data (factory scan/record adjustment values)
 [9] Option ROM availability
 [10] USB memory availability
 [11] No. 1/No. 2 paper full sensor sensor availability
 [12] USB serial number
 [13] MAC address
 [14] Backup battery availability
 [15] ROM version (Reader controller PCB)
 [16] output the number of histories (communication history, copy/print/report/JOB history of the reception print, jam history, E code history, humidity log)
 *1: only for the touch panel model

5.1.12.7 Service Label

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Enter the value given in the service label affixed to the rear cover when it has been replaced with a new one.

#PRINT>#PRINT NUMERIC					#SCAN>#SCAN NUMERIC				
	FACTORY	1	2	3		FACTORY	1	2	3
031	50				026				
032	50				031				
033	50				032				
034	100				033				
035	100				034				
036	100				041				
037	100				042				
038	100				043				
039	100				044				
					045				
					046				
					047				
#SCAN>#SCAN NUMERIC					048				
					054				
					213				
					214				
body No:BFDxxxxx					215				

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5.1.12.8 e-RDS Communication Error Log List

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Description: Detailed information output when a communication error occurs
(For the output error message, see "RDS > Error Messages".)

5.1.12.9 Environmental Log Report

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

06/27/2007 13:07 FAX					0001				
[1]					*****				
					*** ENVIROMENT LOG REPORT ***				

SERIAL NO					XXXXxxx				
ENVIROMENT									
No.	DATE	TIME	D+Temp	E+Hum	F+Temp	F+Temp			
001	0616	0930	D030	E026	F180	F180			
002	0616	1030	D028	E025	F181	F181			
[2]	[3]	[4]	[5]	[6]	[7]	[8]			

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History description		
	Item	Explanation
[1]	Serial number	Serial number of this machine
[2]	Number	The larger the number of a enviroment log data, the more recently it has occurred.
[3]	Date	Data acquisition day
[4]	Time	Data acquisition time
[5]	Temperature (deg)	
[6]	Humidity (%)	
[7]	Fixing roller temperature 1 (deg)	
[8]	Fixing roller temperature 2 (deg)	

5.1.13 Download (DOWNLOAD)

5.1.13.1 Download

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

The following parts of this unit can be upgraded by executing download mode using the service support tool (SST) (for more information, see the "Upgrading" section):

Main unit

- Flash ROM (system + boot) mounted on the image processor PCB

Accessory

- ROM mounted on the finisher controller PCB

- ROM mounted on the PCL board

5.1.14 Data Initialization Mode (CLEAR)

5.1.14.1 Clear

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Group	Item	Explanation
TEL & USER DATA		Clears all user-registered and -set areas of telephone registration data and user data. (Telephone registration refers to the registration of codes on one-touch dialing, abbreviated dialing, and group dialing.)
SERVICE DATA		Clears the system dump list, except for counters and clear dates.
COUNTER		Clears the maintenance counter, parts counter and mode-specific counters. Initializes the counter (numerator) in the system dump list.
TYPE		Initializes user data and service data to suit specified destination settings.
SOFT-CNT		Not used
HST	ACTIVITY	Initializes the activity report
	ACCOUNT	Clears print histories.
	JAM	Clears the jam history.
	ERR	Clear the error (error code) history.
	ALARM	Clears the alarm history.
	ENVIROMENT	Initializes the enviroment log data.
CARD		Clears department management information held in the controller before the card reader is demounted.
ERR	E355	Not used
	E719	Clears card reader errors.
PWD		Clears the system administrator's password.
FILE SYSTEM*1		Delete unnecessary language files in the USB memory.
FORMAT*1	USB MEMORY	Format the USB memory. (This mode is used when the USB memory error is damaged and E744 occurs.)
	LICENSE DRIVE	Not used
CA-KEY		Initializes an installed CA certification.
ERDS-DAT		The settings related to e-RDS are cleared to the factory settings.
ALL		Clears user and service data (except for some scan parameters and print parameters), and the counter setting/registration data in the system dump list, except for the print count.

*1 Only for the touch panel model.

5.1.15 Error Display (ERROR DISPLAY)

5.1.15.1 Error Display

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

An error code is displayed when a service error has occurred. The E code is displayed in the upper step, and the detail code is displayed the bottom step.

5.1.16 Display of ROM Information (ROM)

5.1.16.1 ROM Display

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

The table below lists the items of ROM display mode that are supported.

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Item	Explanation
MAIN	Displays the version number of the ROM (SYSTEM) mounted on the image processor PCB.
MAIN2	Displays the version of the ROM (BOOT) mounted on the image processor PCB.
ECONT	Displays the version number of the ROM mounted on the DC controller PCB.
OPROM	Displays the version number of the option ROM.

5.1.17 Test Mode (TEST MODE)

5.1.17.1 Outline

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Test mode must be executed by keeping track the flow of menu items appearing on the LCD. Menu items in test mode are organized into seven blocks as described below. Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.

1. D-RAM test ((1) D-RAM)

Checks to see if data can be correctly written to and read from D-RAM.

2. Scan test ((2) SCAN TEST)

Used to adjust contact sensor output and the position at which a document fed from the ADF is scanned.

3. Print test ((3) PRINT TEST)

Used to generate service test patterns.

4. Modem test ((4) MODEM TEST)

Performs relay actuation, modem DTMF and tonal signal transmission/reception tests.

5. Aging test ((5) AGING TEST)

Not used.

6. Function test ((6) FUNCTION TEST)

Used to verify the operations of microswitches, sensors, speakers and ADF functions.

7. Roller cleaning mode ((0) ROLLER CLEAN)

Used to clean the delivery roller or ADF pickup roller by idling them.

5.1.17.2 Test Mode Menu List (LCD Type)

iR2025 / iR2030 / iR2018 / iR2022

Test mode menu list

To invoke test mode, follow these steps:

1) Enter service mode.

Press the operation panel user mode key, 2 key, 8 key and user mode key in this order.

2) Press the operation panel arrow keys to show "TEST MODE."

3) Press the OK key.

To exit test mode, press the user mode key to return to standby mode.

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Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.					
Group	Subgroup	Item 1	Item 2	Item 3	Explanation
TEST MODE [1] - [9], [#]					
(1) DRAM [1] - [2]					
	(1) D-RAM TEST				Write/read check
	(2) D-RAM TEST				Read check
(2) SCAN TEST [1] - [8]					
	(1) SHADING				Automatic gain adjustment
	(3) SHEET POS ADJ				CS position adjustment
	(4) TRASH DETECT				Dust detection
	(5), (6), (9), (*)				Not used
(3) PRINT TEST [1] - [9]					
	(1)				Not used
	(2)				All-black output
	(3)				Not used
	(4)				Back belt output
	(5), (6), (7), (8), (9), (*)				Not used

Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.					
Group	Subgroup	Item 1	Item 2	Item 3	Explanation
(4) MODEM TEST [1] - [9]					
	(1) RELAY TEST [1] - [2]				
		(1) RELAY TEST 1			
		(2) RELAY TEST 2			
	(2) FREQ TEST [0] - [6]				
		(0) FREQ TEST 462Hz			
		(1) FREQ TEST 1100Hz			
		(2) FREQ TEST 1300Hz			
		(3) FREQ TEST 1500Hz			
		(4) FREQ TSST 1650Hz			
		(5) FREQ TEST 1850Hz			
		(6) FREQ TEST 2100Hz			
	(4) G3 SIGNAL TX TEST [0] - [8]				
		(0) G3 SIGNAL TX TEST 300bps			
		(1) G3 SIGNAL TX TEST 2400bps			
		(2) G3 SIGNAL TX TEST 4800bps			
		(3) G3 SIGNAL TX TEST 7200bps			
		(4) G3 SIGNAL TX TEST 9600bps			
		(5) G3 SIGNAL TX TEST TC7200bps			
		(6) G3 SIGNAL TX TEST TC9600bps			
		(7) G3 SIGNAL TX TEST 12000bps			
	(8) G3 SIGNAL TX TEST 14400bps				
	(5) DTMF TEST [0] - [9], *, #				
		(0) G3 SIGNAL TX TEST 300bps			
		(1) G3 SIGNAL TX TEST 2400bps			
		(2) G3 SIGNAL TX TEST 4800bps			
		(3) G3 SIGNAL TX TEST 7200bps			
		(4) G3 SIGNAL TX TEST 9600bps			
		(5) G3 SIGNAL TX TEST TC7200bps			
		(6) G3 SIGNAL TX TEST TC9600bps			
		(7) G3 SIGNAL TX TEST 12000bps			
		(8) G3 SIGNAL TX TEST 14400bps			
		(9) G3 SIGNAL TX TEST TC9600bps			
		(*) G3 SIGNAL TX TEST 12000bps			
		(#) G3 SIGNAL TX TEST 14400bps			
	(6) MODEM TEST				
	(8) G3 V.34 Tx TEST				
	(9)				
(5) AGING TEST					
(6) FUNCTION TEST [1] - [9]					

Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.					
Group	Subgroup	Item 1	Item 2	Item 3	Explanation
	(1) FUNCTION TEST G3 4800bps				G3 4800 bps signal transmission test
	(3) 6-3 SENSOR [1] - [6]				Sensor checks
		(1) SENSOR CHECK 0:NORMAL 1:LATCH			
			(0) SENSOR NORMAL [0] - [2]		
			(0) CAS 0 REG 0 DEL 0 MULTI 0		
			(1) TONER 0 FULL 0 2ND-DEL 0000		
			(2) OP1 0000 OP2 0000 OP3 0000 PATH 0000		
		(1) SENSOR LATCH [0] - [2]			
			(0) CAS 0 REG 0 DEL 0 MULTI 0		
			(1) TONER 0 FULL 0 2ND-DEL 0000		
			(2) OP1 0000 OP2 0000 OP3 0000 PATH 0000		
		(2) SWITCH CHECK [0] - [1]			
			(0) CAS 0000 LOCK 0000		
			(1) OP1 0000 OP2 0000 OP3 0000		
		(3) DS ON DES of HPS ON BCVS of			
		(4) REF xxx ANT xxx ANT-REF xxx			
		(5) BSCT on BDAC[A3] BDSS3-0 [of of of of]			
		(6) NCR Sts: NCR xxxxx DPT MGN OK RDY 0101			
		(7) LAST of EXIT of REG of CVR of			
		(8) WID1 on WID2 on LEN1 on LEN2 on			
		(9) D+Temp xxxx E+Hum xxxx F+Temp xxxx xxxx			
	(4) ADF FEED TEST				ADF delivery operation test
	(5) BOOK FEED TEST				Book copy operation test
	(6) 6-6 SPEAKER FREQ:[1] VOL:[2]				Speaker volume and buzzer frequency test
	(7)				Not used
	(8) FUNCTION TEST LAMP TEST ALL				Lamp test
	(9) LINE TEST [1] - [3]				Line signal reception test
	(0) ROLLER CLEAN 0:PRT 1:ADF				Printer and ADF roller cleaning
	(0) PRT ROL CLEAN Press start key				
	(1) ADF ROL CLEAN Press start key				

5.1.17.3 Test Mode Menu List (Touch Panel Type)

iR2022i / iR2018i

Test mode menu list

To invoke test mode, follow these steps:

- 1) Enter service mode.
Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 2) Press the arrow key on the touch panel to display "TEST MODE".
- 3) Press [OK].

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Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.					
Group	Subgroup	Item 1	Item 2	Item 3	Explanation
	TEST MODE [1] - [9], [#]				
	(1) DRAM [1] - [2]				D-RAM data check
		(1) D-RAM TEST			Write/read check
		(2) D-RAM TEST			Read check
	(2) SCAN TEST [1] - [8]				
		(1) SHADING			Automatic gain adjustment
		(3) SHEET POS ADJ			CS position adjustment
		(4) TRASH DETECT			Dust detection
		(5), (6), (9), (*)			Not used
	(3) PRINT TEST [1] - [9]				
		(1)			Not used
		(2)			All-black output
		(3)			Not used
		(4)			Back belt output
		(5), (6), (7), (8), (9), (*)			Not used
	(4) MODEM TEST [1] - [9]				

Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.						
Group	Subgroup	Item 1	Item 2	Item 3	Explanation	
	(1) RELAY TEST [1] - [2]					
		(1) RELAY TEST 1			NCU relay (and switch) ON/OFF test	
		(2) RELAY TEST 2			230 V common NCU test	
	(2) FREQ TEST [0] - [6]				Frequency test	
		(0) FREQ TEST 462Hz				
		(1) FREQ TEST 1100Hz				
		(2) FREQ TEST 1300Hz				
		(3) FREQ TEST 1500Hz				
		(4) FREQ TSST 1650Hz				
		(5) FREQ TEST 1850Hz				
		(6) FREQ TEST 2100Hz				
	(4) G3 SIGNAL TX TEST [0] - [8]				G3 signal transmission test	
		(0) G3 SIGNAL TX TEST 300bps				
		(1) G3 SIGNAL TX TEST 2400bps				
		(2) G3 SIGNAL TX TEST 4800bps				
		(3) G3 SIGNAL TX TEST 7200bps				
		(4) G3 SIGNAL TX TEST 9600bps				
		(5) G3 SIGNAL TX TEST TC7200bps				
		(6) G3 SIGNAL TX TEST TC9600bps				
		(7) G3 SIGNAL TX TEST 12000bps				
		(8) G3 SIGNAL TX TEST 14400bps				
		(5) DTMF TEST [0] - [9], *, #				DTMF transmission test
			(0) G3 SIGNAL TX TEST 300bps			
			(1) G3 SIGNAL TX TEST 2400bps			
			(2) G3 SIGNAL TX TEST 4800bps			
			(3) G3 SIGNAL TX TEST 7200bps			
			(4) G3 SIGNAL TX TEST 9600bps			
			(5) G3 SIGNAL TX TEST TC7200bps			
			(6) G3 SIGNAL TX TEST TC9600bps			
			(7) G3 SIGNAL TX TEST 12000bps			
			(8) G3 SIGNAL TX TEST 14400bps			
			(9) G3 SIGNAL TX TEST TC9600bps			
			(*) G3 SIGNAL TX TEST 12000bps			
		(#) G3 SIGNAL TX TEST 14400bps				
		(6) MODEM TEST				Tonal sign reception test
		(8) G3 V.34 Tx TEST				V34 G3 signal transmission test
		(9)				Not used
(5) AGING TEST				Not used		
(6) FUNCTION TEST [1] - [9]						

Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.					
Group	Subgroup	Item 1	Item 2	Item 3	Explanation
	(1) FUNCTION TEST G3 4800bps				G3 4800 bps signal transmission test
	(3) 6-3 SENSOR [1] - [6]				Sensor checks
		(1) SENSOR CHECK 0:NORMAL 1:LATCH			
			(0) SENSOR NORMAL [0] - [2]		
				(0) CAS 0 REG 0 DEL 0 MULTI 0	
				(1) TONER 0 FULL 0 2ND-DEL 0000	
				(2) OP1 0000 OP2 0000 OP3 0000 PATH 0000	
		(1) SENSOR LATCH [0] - [2]			
				(0) CAS 0 REG 0 DEL 0 MULTI 0	
				(1) TONER 0 FULL 0 2ND-DEL 0000	
				(2) OP1 0000 OP2 0000 OP3 0000 PATH 0000	
		(2) SWITCH CHECK [0] - [1]			
			(0) CAS 0000 LOCK 0000		
			(1) OP1 0000 OP2 0000 OP3 0000		
		(3) DS ON DES of HPS ON BCVS of			
		(4) REF xxx ANT xxx ANT-REF xxx			
		(5) BSCT on BDAC[A3] BDSS3-0 [of of of of]			
		(6) NCR Sts: NCR xxxxx DPT MGN OK RDY 0101			
		(7) LAST of EXIT of REG of CVR of			
		(8) WID1 on WID2 on LEN1 on LEN2 on			
		(9) D+Temp xxxx E+Hum xxxx F+Temp xxxx xxxx			
	(4) ADF FEED TEST				ADF delivery operation test
	(5) BOOK FEED TEST				Book copy operation test
	(6) 6-6 SPEAKER FREQ:[1] VOL:[2]				Speaker volume and buzzer frequency test
	(7)				Not used
	(8) FUNCTION TEST LAMP TEST ALL				Lamp test
	(9) LINE TEST [1] - [3]				Line signal reception test
	(0) ROLLER CLEAN 0:PRT 1:ADF				Printer and ADF roller cleaning
	(0) PRT ROL CLEAN Press start key				
	(1) ADF ROL CLEAN Press start key				

5.1.17.4 D-RAM Test<(1) D-RAM TEST>

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

D-RAM Test((1) D-RAM)

Press the numeric keypad key 1 on the test mode menu to select the D-DRAM test.

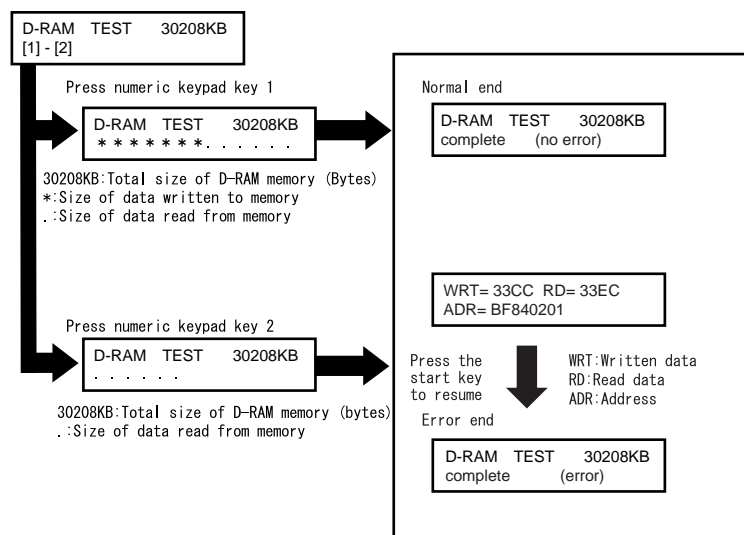
Press numeric keypad keys 1 and 2 during the D-DRAM test to carry out the individual tests described below.

Numeric keypad key 1

Checks to see if data can be correctly written to and read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).

Numeric keypad key 2

Checks to see if data can be correctly read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).



5.1.17.5 Scan Test ((2) SCAN TEST)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Scan test ((2) SCAN TEST)

Press the numeric keypad key 2 on the test mode menu to select the CCD test.
Press numeric keypad keys 1, 3 and 4 during the CCD test to carry out the individual tests described below.

Numeric keypad key 1
Corrects the LED output of the contact sensor and sets its parameters automatically. (AGC adjustment)

Numeric keypad key 3
Adjusts the document scan position (only on models with the ADF feature installed). Adjusts the position of the contact sensor for scanning documents fed from the ADF automatically.

Numeric keypad key 4
Detects trash at reader scan positions A/B/C.
Pos A: Reference read position
Pos B: About 0.5 mm inside of the roller from the reference position
Pos C: About 1.0 mm inside of the roller from the reference position

5.1.17.6 Print Test ((3) PRINT TEST)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Print test ((3) PRINT TEST)

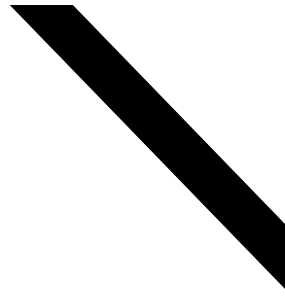
Press the numeric keypad key 3 on the test mode menu to select the print test.
Press numeric keypad keys 2 and 4 during the print test to generate test patterns as described below. Two kinds of service test patterns are available. Other test patterns are reserved for factory/development purposes.

Numeric keypad key 2
(2) BLACK: All-black output
Numeric keypad key 4
(4) ENDURANCE: Black belt output

To cancel test printing, press the stop key.



Use it to make sure that the print pattern does not have white lines or uneven image.



Use it to make sure that the print pattern does not have contraction/elongation of an image or dirt/black lines.

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5.1.17.7 Modem Test ((4) MODEM TEST)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

MODEM test((4) MODEM TEST)

These tests test modem and NCU transmission and reception. The modem tests check whether signals are sent correctly from the modem by comparing the sound of the signals from the speaker with the sounds from a normal modem.
End this test by pressing the Stop key.

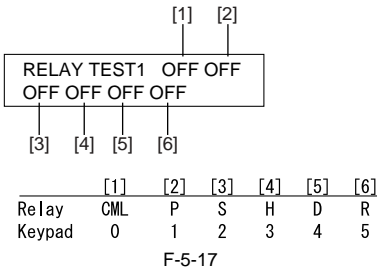
Keypad	Type	Description
1	Relay test	Use it to turn on/off a selected relay to execute a switch-over test
2	Frequency test	The modem sends tonal signals from the modular jack and the speaker.
4	G3 signal transmission test	The modem sends G3 signals from the modular jack and the speaker.
5	DTMF signal reception test	Use it to generate the DTMF signal coming from the modem using the telephone line terminal and the speaker.
6	Tonal signal reception test	Use it to monitor a specific frequency and the DTMF signal received from the telephone line terminal by causing them to be indicated on the LCD (i.e., the presence/absence as detected). The reception signal is generated by the speaker.
8	V.34 G3 signal transmission test	The modem sends V.34 G3 signals from the modular jack and the speaker.

Relay Test

Press '1' or '2' on the keypad on the Modem test menu to select relay test mode. Use the keypad to operate the various relays of the NCU. '2' on the keypad is used for 230V machine.

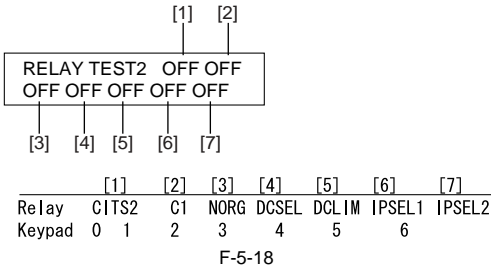
Numeric keypad key 1


The input key and relay are shown below:



Numeric keypad key 2

The input key and relay are shown below:



 The touch panel (LCD) is turned on or off in relation to the transmission of the relay operation signal as is operated on the keypad; for this reason, you cannot use the touch panel (LCD) to check a fault on a single relay.

Frequency Test

A press on '2' on the keypad from the MODEM test menu selects the frequency test. In this test, signals of the following frequencies from the modem are transmitted using the telephone line terminal and the speaker. To select a different frequency, use the keypad.

Keypad	Frequency
1	462Hz
2	1100Hz
3	1300Hz
4	1500Hz
5	1650Hz
6	1850Hz
7	2100Hz

MEMO:

The frequency and the output level of individual frequencies are in keeping with the output level set in service mode.

G3 Signal Transmission Test

A press on '4' on the keypad from the MODEM test menu selects the G3 signal transmission test. In this test, the following G3 signals from the modem are transmitted using the telephone line terminal and the speaker. To select a different transmission speed, use the keypad.

Keypad	Transmission speed
0	300bps
1	2400bps
2	4800bps
3	7200bps
4	9600bps
5	TC7200bps
6	TC9600bps
7	12000bps
8	14400bps

MEMO:

The output level of individual signals is in keeping with the setting made in service mode.

DTMF Signal Transmission Test

A press on '5' on the MODEM test menu selects the DTMF signal transmission test. In the test, the following DTMF signals from the modem are transmitted using the telephone line terminal and the speaker. The number pressed on the keypad selects a specific DTMF signal.

MEMO:

The output level of individual signals is in keeping with the setting made in service mode.

Tonal/DTMF Signal Reception Test

A press on '6' on the keypad from the MODEM test menu selects the tonal signal/DTMF signal reception 0 test. In this signal, the tonal signal/DTMF signal received from the telephone line terminal can be checked to find out if it was detected by the modem.

Tonal signal reception test

MODEM TEST
OFF OFF OFF

OFF OFF OFF

changes from '0' to '1' in response to detection of a signal of 462 ± 25 Hz.

changes from '0' to '1' in response to detection of a signal of 1100 ± 30 Hz.

changes from '0' to '1' in response to detection of a signal of 2100 ± 25 Hz.

DTMF signal reception test

MODEM TEST
OFF OFF OFF 5

The received DTMF signals are indicated starting from the right using the 2nd character of the display.

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V.34 G3 Signal Transmission Test

A press on '8' on the keypad from the MODEM test menu selects the V.34 G3 signal transmission test. The V.34 G3 signals below are sent from the modem using the modular jack and the speaker by pressing the start key. The Baud rate can be changed with the keypad, and the Speed can be changed with the left/right arrow key.

Keypad	Baud rate
0	3429baud
1	3200baud
2	3000baud
3	2800baud
4	2743baud
5	2400baud
Left/right arrow key	Transmission speed
	2400bps
	4800bps
	7200bps
	9600bps
<	12000bps
	14400bps
	16800bps
	19200bps
	21600bps
>	24000bps
	26400bps
	28800bps
	31200bps
	33600bps

5.1.17.8 Function Test ((6) FUNCTION TEST)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Function test ((6) FUNCTION TEST)

Press the numeric keypad key 6 on the test mode menu to select the function test.

Press numeric keypad keys 1 and 3 to 9 during the function test to enter the menus listed below.

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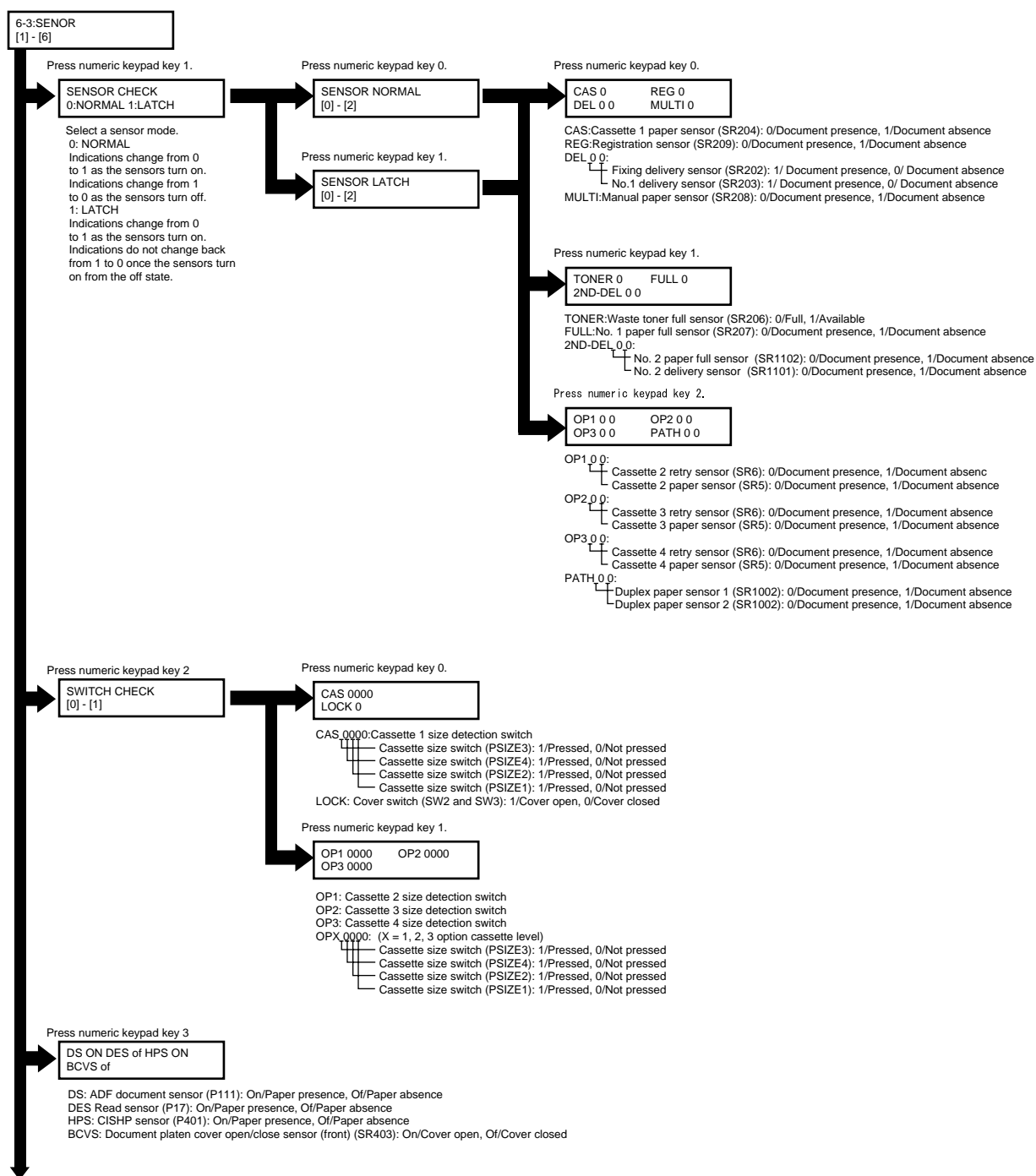
Keypad	Item	Explanation
1	G3 signal transmission test	Transmits 4800-bps G3 signals to a telephone line and speaker.
2	Not used	
3	Sensor test	Sensor actuation test
4	ADF test	ADF operation test
5	Book test	Host machine operation test
6	Speaker test	Speaker operation test
7	Not used	
8	Lamp test	Contact sensor illumination test
9	Line signal reception test	NCU board signal sensor and frequency counter operation test

G3 signal transmission test (6-1: G3 480 bps Tx)

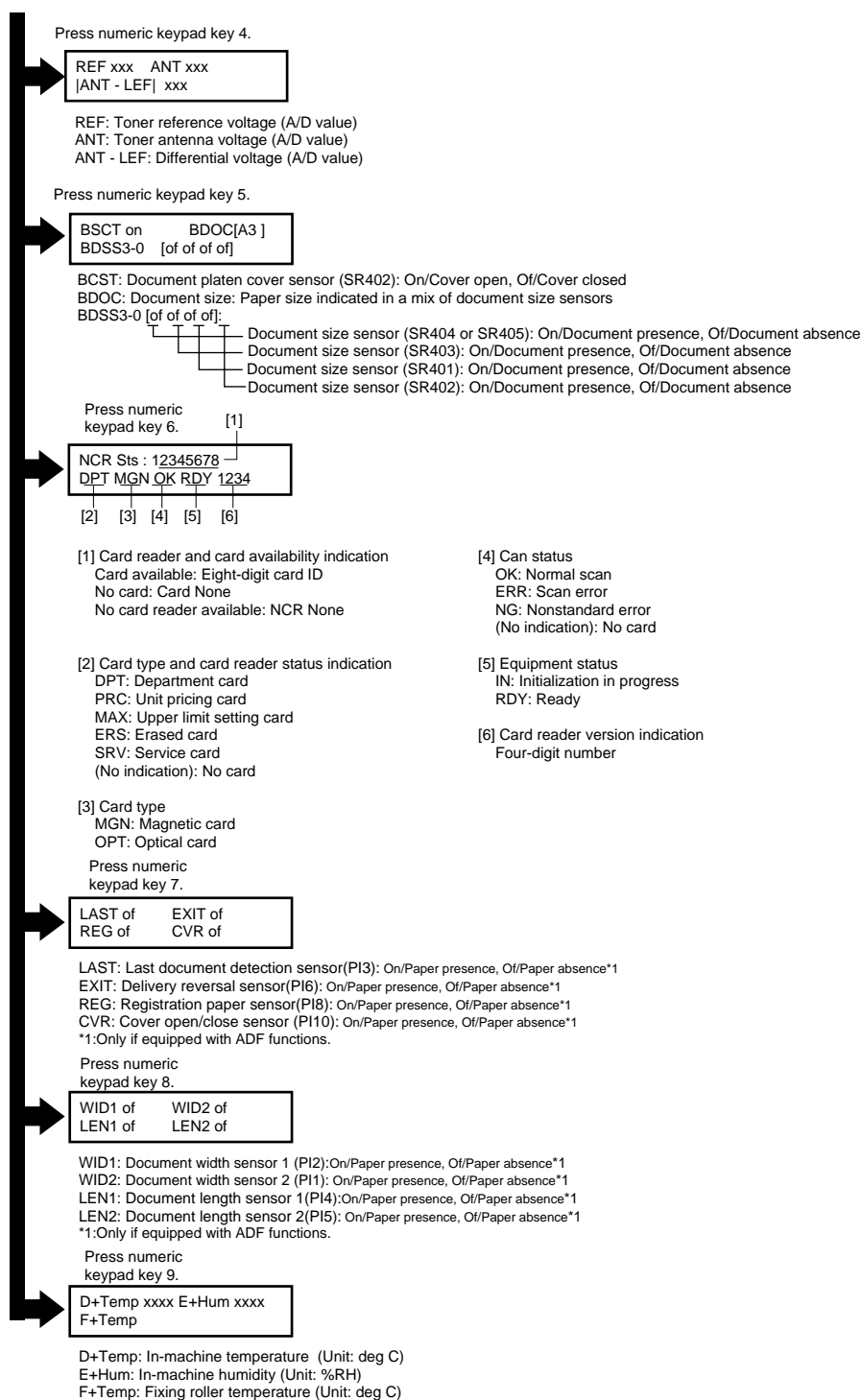
Press numeric keypad key 1 on the FUNCTION TEST menu to select the G3 signal transmission test. This test transmits 4800-bps G3 signals from the telephone line connection terminal and speaker.

Sensor test (6-3: SENSOR)

This mode is used to verify the status of the unit sensors from the touch panel (LCD) indications. Press numeric keypad key 3 on the FUNCTION TEST menu to select the sensor test. The touch panel (LCD) indications change as the associated sensors turn on and off.



F-5-20



F-5-21

ADF feed test (6-4: ADF FEED TEST)

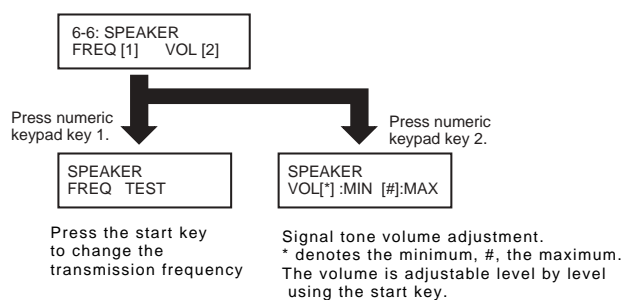
ADF operation verification mode. Press numeric keypad key 4 on the FUNCTION TEST menu to select the ADF feed test. Place a document on the document platen and press the start key to transfer the document at the speed matched to the scan resolution setting. In this test, enter a transfer speed between 500 and 2000 (mm/s) from the numeric keypad and verify the transfer speed. Select between the ON and OFF states with the left and right cursor keys to select between single-sided document feed (OFF) and double-sided document feed (ON).

Book feed test (6-5: BOOK FEED TEST)

Performs a book feed operation with a specified magnification and in a specified size.

Speaker test (6-6: SPEAKER)

Speaker operation verification mode. Press numeric keypad key 6 on the FUNCTION TEST menu to select the speaker test. In this test, the speaker generates tonal signals at 100 Hz intervals, from 200 Hz to 5 kHz, in varying sound volumes. Signal output from the speaker is thus verified.



F-5-22

Lamp test (6-8: LAMP TEST)

Press numeric keypad key 8 on the FACULTY menu to select the scan lamp illumination mode. The test checks to see if the scan lamp is on or not. Numeric keypad key 1 selects LAMP TEST ALL. Press the start key to turn on all scan lamps. LAMP TEST AGC is not used.

Line signal reception test (6-9 LINE DETECT)

Press numeric keypad key 9 on the FACULTY menu to select the line signal reception test. In this test, verify the successful operations of the NCU signal sensor and the frequency counter. Menu 1 detects the CI state, while menu 3 detects the CNG signal.

Test menu 1

Press numeric keypad key 1 on the LINE DETECT menu to select test menu 1. When CI is detected on the telephone line connection terminal, the touch panel (LCD) display changes from OFF to ON, indicating the received frequency. The touch panel (LCD) also displays the on-hook or off-hook state of an external telephone set as detected. The touch panel (LCD) displays, from left to right, CI, CI frequency, hook port and FC with indications of 1:ON and 0:OFF.

Test menu 2

Press numeric keypad key 2 on the LINE DETECT menu to select test menu 2. When the CNG signal is detected on the telephone line connection terminal, the touch panel (LCD) display changes from OFF to ON, indicating the received frequency. The touch panel (LCD) displays the status of CML, CNG and FED detection, from left to right, with ON/OFF indications. Numeric keypad key 2 turns on the CML relay to detect CNG.

Test menu 3

Press numeric keypad key 3 on the LINE DETECT menu to select test menu 3. When the CNG signal is detected on the telephone line connection terminal, the touch panel (LCD) display changes from OFF to ON, indicating the received frequency. The touch panel (LCD) displays the status of CML, CNG and FED detection, from left to right, with ON/OFF indications. Numeric keypad key 3 turns off the CML relay to detect CNG.

5.1.17.9 Roller cleaning mode ((0) ROLLER CLEAN)

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Roller cleaning mode ((0) ROLLER CLEAN)

Press numeric keypad key 0 in test mode to select roller cleaning mode. Press numeric keypad keys 1 and 2 during this test to enter the following menus:

Numeric keypad key 1

Press the start key clean the ADF pickup/feed rollers by idling.

Press the stop key to exit this mode.

Numeric keypad key 2

Press the start key clean the unit transfer rollers by idling.

Press the stop key to exit this mode.

Chapter 6 Outline of Components

6.1 Clutch/Solenoid

6.1.1 List of Clutches/Solenoids

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

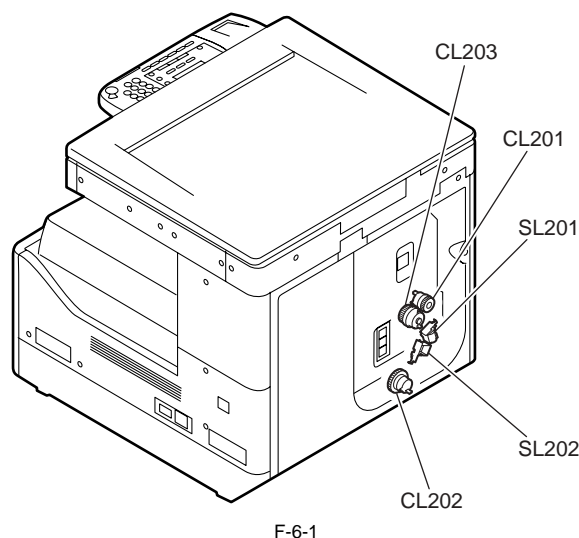
<Reader Unit>

The reader unit has no clutch/solenoid.

<Printer Unit>

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.

Symbol	Part No.	DC controller PCB
CL201	FK2-1070	J219
CL202	FK2-5367	J211
CL203	FK2-5350	J210
SL201	FK2-1072	J219
SL202	FK2-1082	J209



F-6-1

6.2 Motor

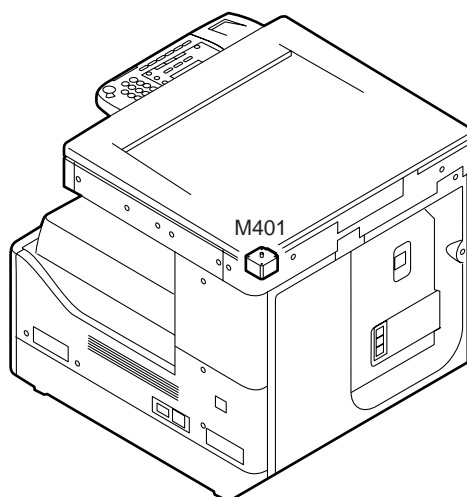
6.2.1 List of Motors

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<Reader Unit>

Symbol	Name	Function
M401	Reader motor	Drives the carriage.

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

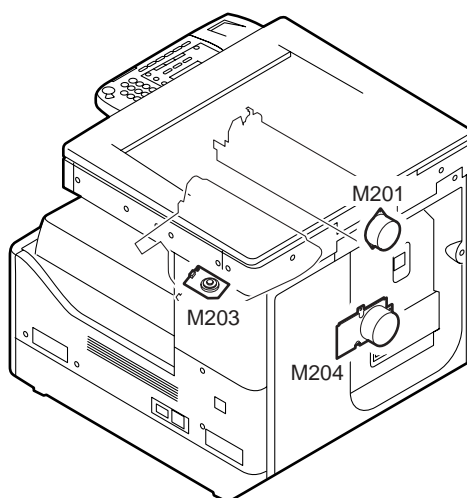


F-6-2

<Printer Unit>

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.

Symbol	Part No.	DC controller PCB	Error
M201	FK2-5348	J202	E007, E808
M203	Scanner unit FM3-3695	J205	
M204	FK2-5347	J208	E010



F-6-3

6.3 Fan

6.3.1 List of Fans

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<Reader Unit>

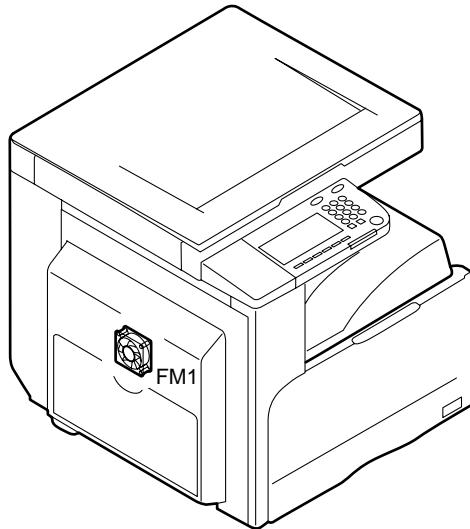
The reader unit has no fan.

<Printer Unit>

T-6-1

Symbol	Name	Function
FM1	Heat discharge fan	Cools fixing unit.

Symbol	Part No.	DC controller PCB	Error
FM1	FK2-5368	J219	E805



F-6-4

6.4 Sensor

6.4.1 List of Sensors

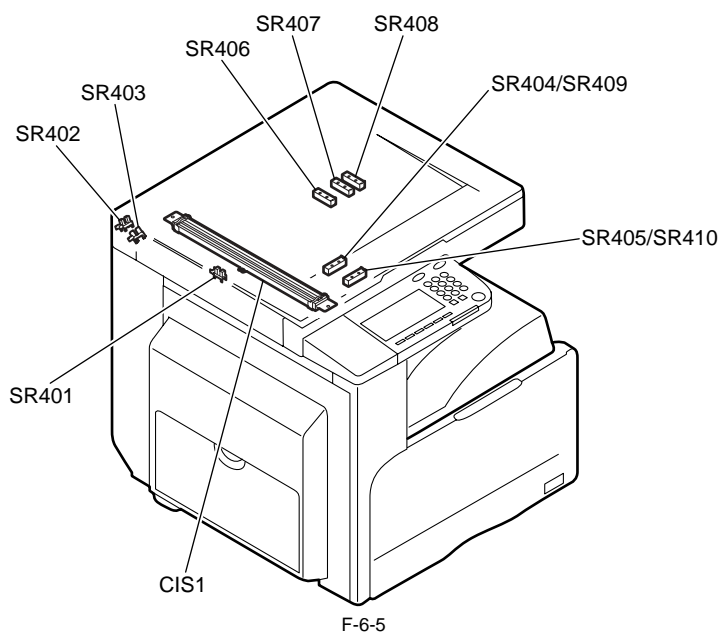
iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

T-6-2

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 or INCH/AB).
SR405	Original sensor 2	Detects the original size (AB 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).
SR409	Original sensor 5	Detects the original size (INCH).
SR410	Original sensor 5	Detects the original size (A).
CIS1	CIS	Reads the original.

T-6-3

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	J1926	
SR409	FH7-7569	J1927	
SR410	FH7-7569	J1928	
CIS1	FM2-3369	J408	



<Printer Unit>

T-6-4

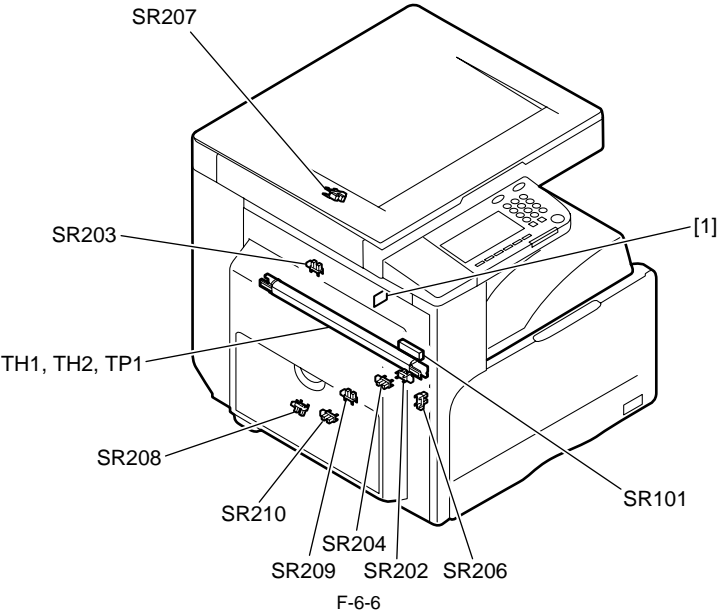
Symbol	Name	Function
SR101	Fixing film speed sensor	Detects the fixing film speed.
SR202	Fixing delivery sensor	Detects fixing delivery.
SR203	No.1 delivery sensor	Detects delivery.
SR204	Cassette 1 paper sensor	Detects presence/absence of cassette 1 paper.
SR206	Waste toner full detection sensor	Detects 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.
SR210	Timing sensor	Detects refeeding.
[1]	Humidity sensor PCB	Detects humidity.
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-6-5

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
SR210	WG8-5696	J213	
[1]	WP2-5254	J222	

T-6-6

Symbol	Part No.	DC controller PCB	Power supply PCB
TH1,TH2	Fixing film unit FM3-3654(120V) FM3-3653(230V)	J217	
TP1			J13



6.5 Switch

6.5.1 List of Switches

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

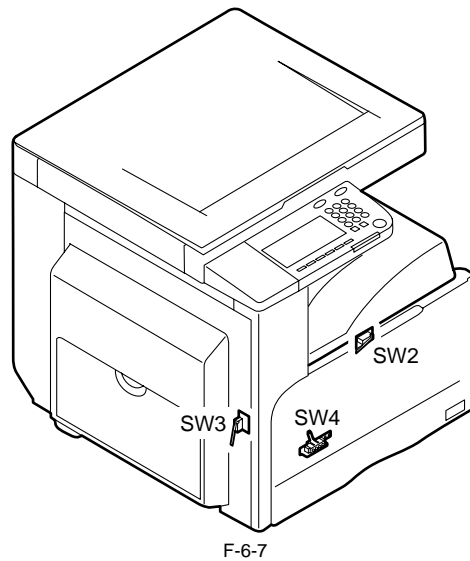
<Reader Unit>

The reader unit has no switch.

<Printer Unit>

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.

Symbol	Part No.	DC controller PCB	Power supply PCB
SW2	FM2-4433		J12
SW3	FM2-4020		J12
SW4	WC2-5332	J213	



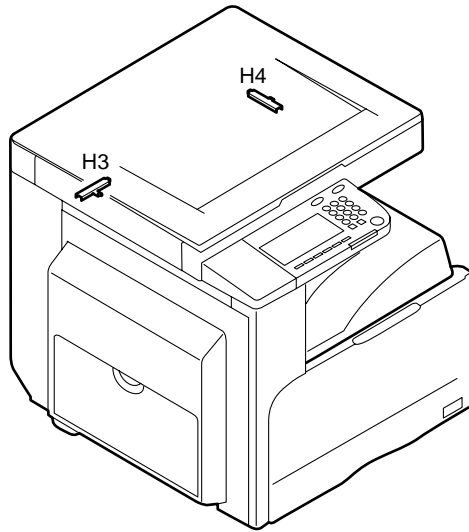
6.6 Lamps, Heaters, and Others

6.6.1 List of Lamps, Heaters, and Others

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<Reader Unit>

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.



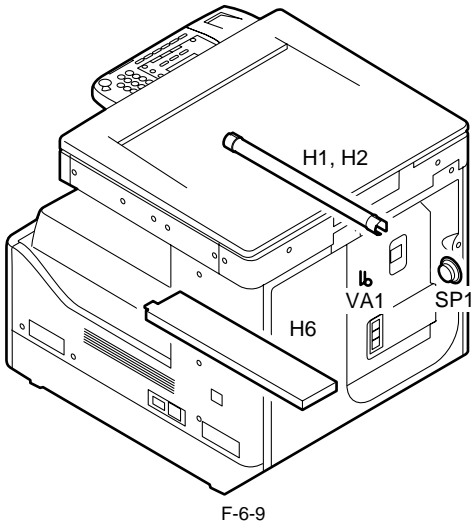
F-6-8

<Printer unit>

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).

Symbol	Part No.
H1,H2	Fixing film unit FM3-3654(120V) FM3-3653(230V)
H6	FM3-3712(100V) FM3-3714(230V)

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



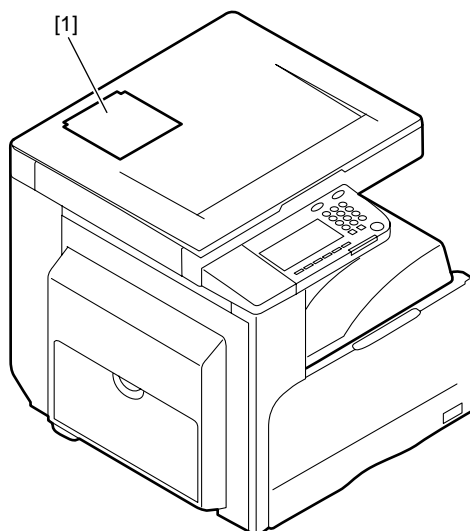
6.7 PCBs

6.7.1 List of PCBs

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

<Reader Unit>

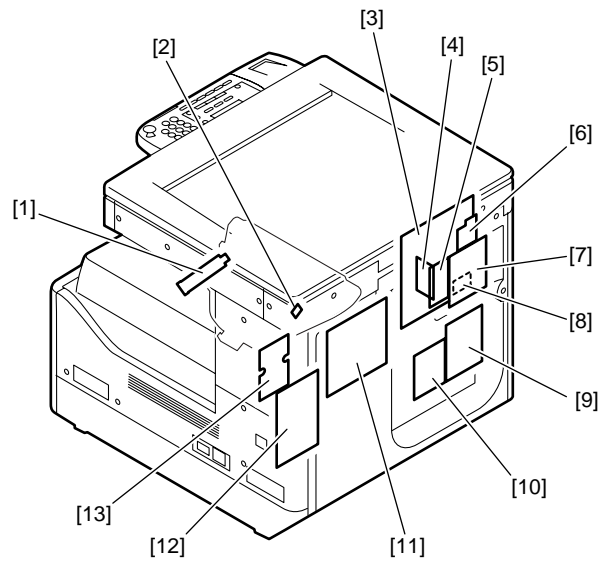
Symbol	Name	Part No.	Function
[1]	Reader controller PCB	FM2-4792	controls the reader unit/ADF



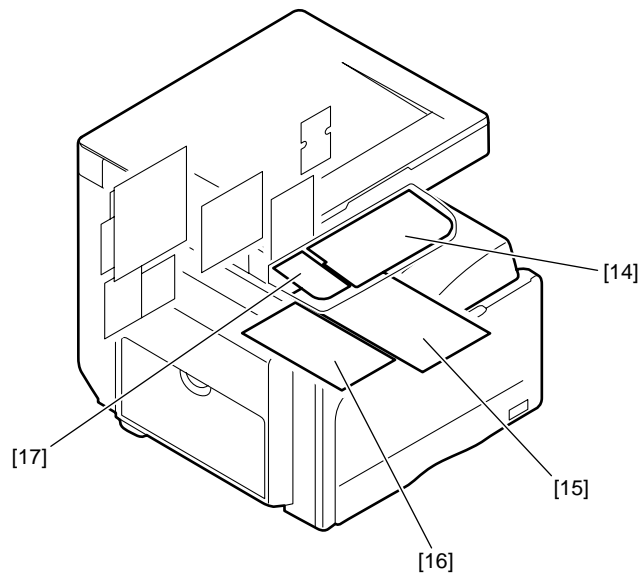
F-6-10

<Printer unit>

Symbol	Name	Part No.	Function
[1]	Laser driver PCB	Scanner unit FM3-3695	controls the laser unit drive
[2]	BD PCB		generates the BD signal
[3]	Image processor PCB	FM3-3320(LCD type) FM3-3319(Touch panel type)	processes output image data for the printer unit
[4]	128MB RAM	FM3-3324	temporarily retains image data
[5]	LAN PCB	FM3-3323	network interface/printer function control
[6]	Serial interface PCB	FM2-4062(SERIAL INTERFACE-A2) FM3-3326(Serial Interface Kit-H1)	coin vendor interface
[7]	Modem PCB	FM3-3321	control the fax
[8]	PCL PCB	FM3-3328(LCD type) FM3-3329(Touch panel type)	PCL function control
[9]	NCU PCB	FM3-3332	controls the line switching operation
[10]	modular PCB	FM2-4777(120V) FM2-4772(230V)	fax line interface
[11]	DC controller PCB	FM3-2992:120V/18cpm FM3-2993:230V/18cpm FM3-2994:120V/22cpm FM3-2995:230V/22cpm FM3-2996:120V/25cpm FM3-2997:230V/25cpm FM3-2998:120V/30cpm FM3-2999:230V/30cpm	controls the printer unit/option
[12]	Option power supply PCB	FK2-1085(120V) FK2-1086(230V)	Option power supply
[13]	Heater PCB	FM2-4021	heater power switch
[14]	Operation panel PCB	Operation panel unit FK2-5340(LCD type: USA/others) FK2-5341(LCD type: Europe) FK2-5342(LCD type: China) FK2-5343(LCD type: Taiwan) FK2-5344(LCD type: Korea) FM3-3620(Touch panel type)	controls the operation panel
[15]	Power supply PCB	FK2-5355(120V) FK2-5356(230V)	printer power supply
[16]	HVT PCB	FM3-2987	high-voltage power supply
[17]	FAX PANEL PCB	FM3-2991	control the fax panel



F-6-11



F-6-12

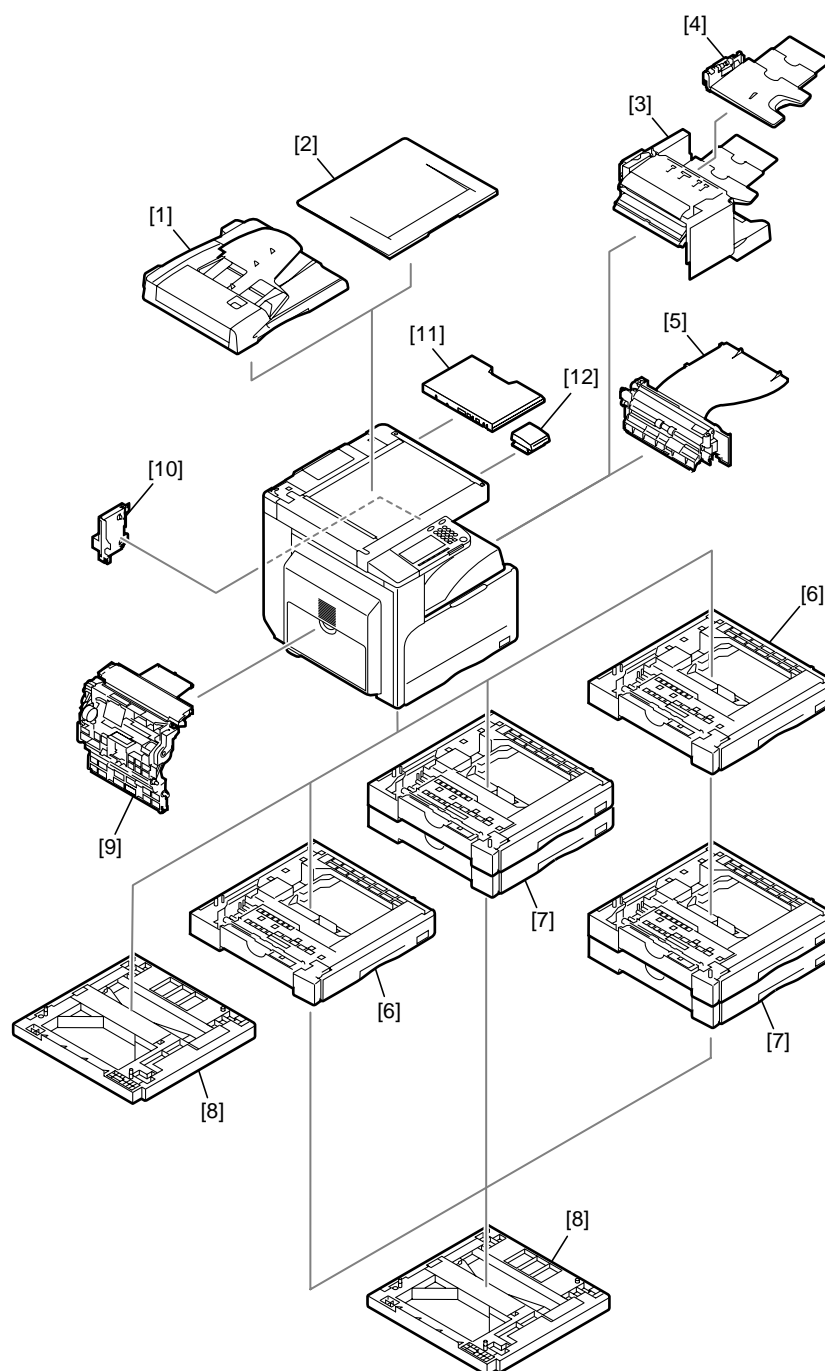
Chapter 7 System Construction

7.1 System Construction

7.1.1 Pickup/Delivery/Original Handling Accessories System Configuration (iR2018)

iR2018

The configuration is as shown in the following figure:



F-7-1

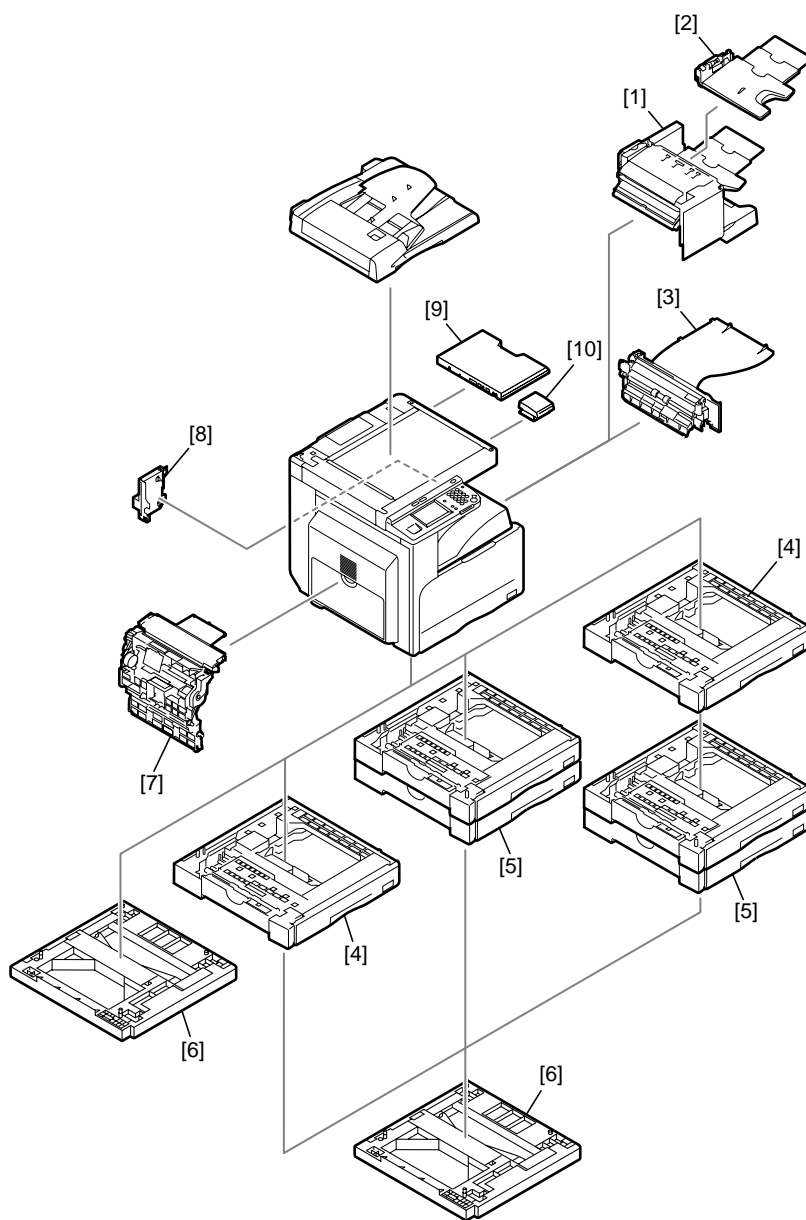
- | | | | |
|-----|-----------------------------|------|-----------------------------------|
| [1] | DADF-P2 | [7] | Cassette Feeding Module-Q1 |
| [2] | Platen Cover Type J (*1) | [8] | Cassette Heater Attachment Kit-E1 |
| [3] | Finisher-U2 | [9] | Duplex Unit-B1 (*1) |
| [4] | Additional Finisher Tray-C1 | [10] | Power Supply Kit-Q1 |
| [5] | Inner 2-way Tray-E2 | [11] | Document Tray-J1 |
| [6] | Cassette Feeding Module-P1 | [12] | Card Reader-E1 |

*1. There are models of the standard equipment.

7.1.2 Pickup/Delivery/Original Handling Accessories System Configuration (iR2018i)

iR2018i

The configuration is as shown in the following figure:



F-7-2

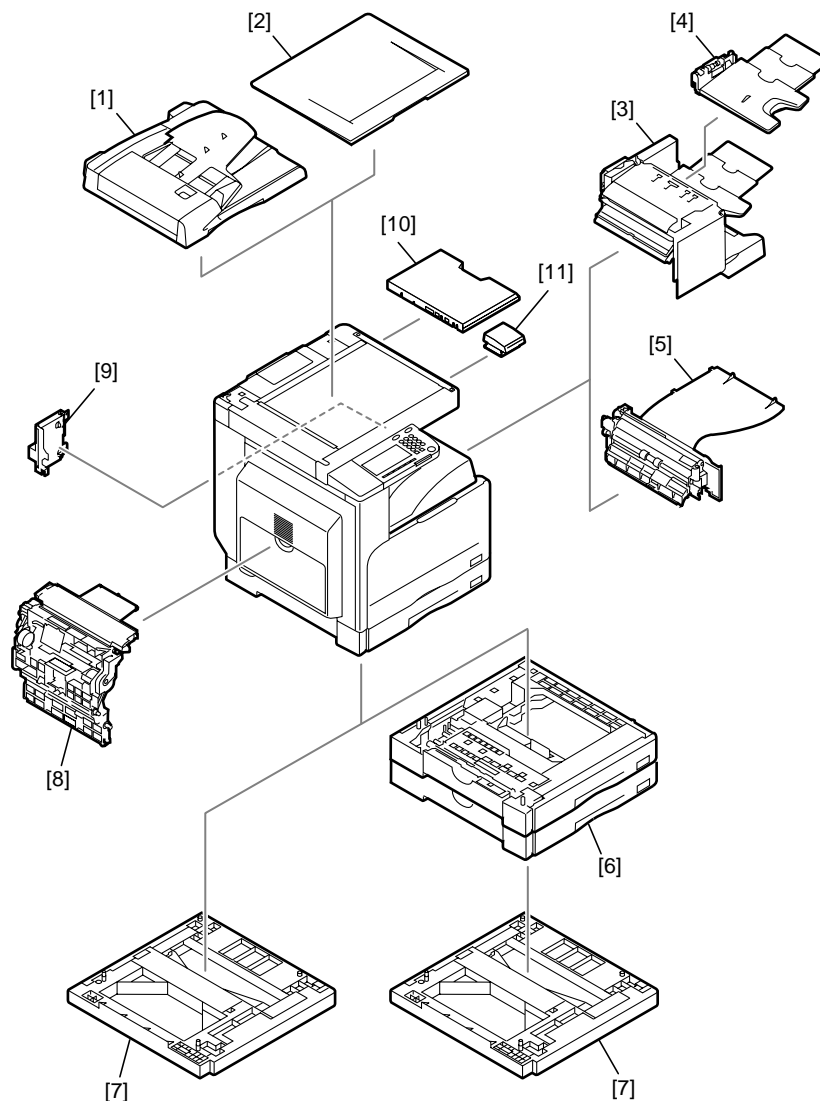
- | | | | |
|-----|-----------------------------|------|-----------------------------------|
| [1] | Finisher-U2 | [6] | Cassette Heater Attachment Kit-E1 |
| [2] | Additional Finisher Tray-C1 | [7] | Duplex Unit-B1 (*1) |
| [3] | Inner 2-way Tray-E2 | [8] | Power Supply Kit-Q1 |
| [4] | Cassette Feeding Module-P1 | [9] | Document Tray-J1 |
| [5] | Cassette Feeding Module-Q1 | [10] | Card Reader-E1 |

*1. There are models of the standard equipment.

7.1.3 Pickup/ Delivery /Original Handling Accessories System Configuration (iR2022/iR2022N/iR2025/iR2030)

iR2025 / iR2030 / iR2022

The configuration is as shown in the following figure:



F-7-3

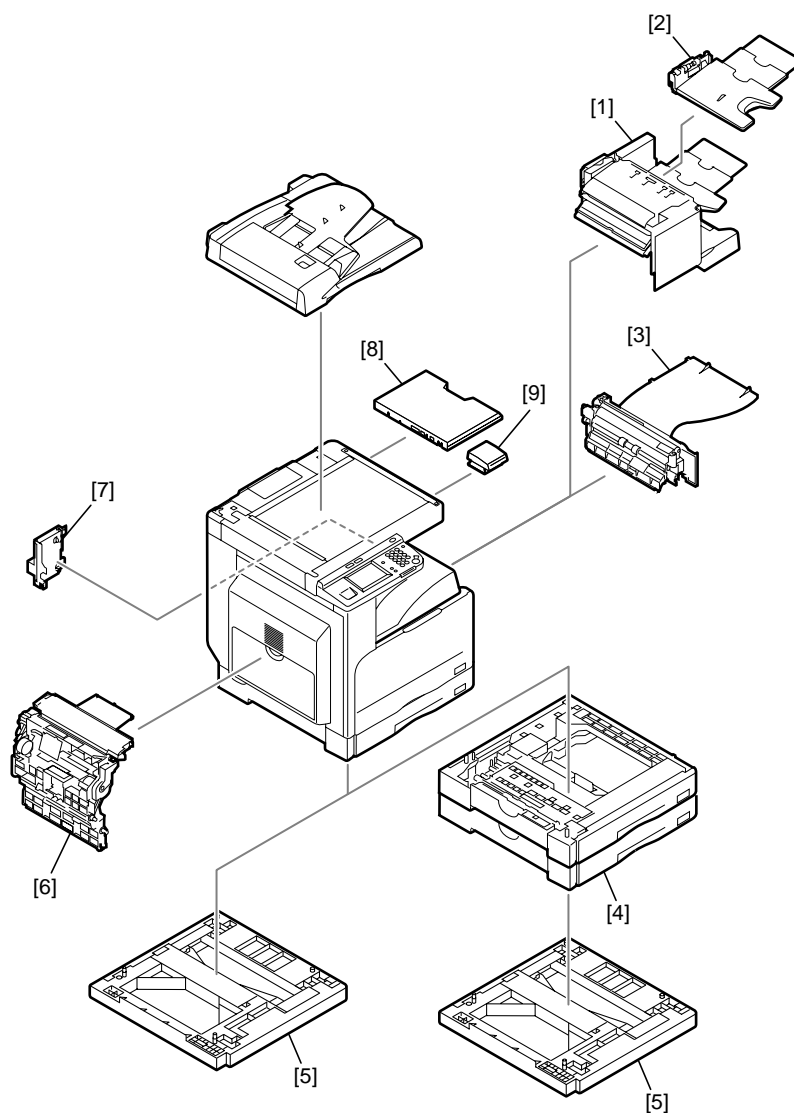
- | | | | |
|-----|-----------------------------|------|-----------------------------------|
| [1] | DADF-P2 (*1) | [7] | Cassette Heater Attachment Kit-E1 |
| [2] | Platen Cover Type J (*1) | [8] | Duplex Unit-B1 (*1) |
| [3] | Finisher-U2 | [9] | Power Supply Kit-Q1 |
| [4] | Additional Finisher Tray-C1 | [10] | Document Tray-J1 |
| [5] | Inner 2-way Tray-E2 | [11] | Card Reader-E1 |
| [6] | Cassette Feeding Module-Q1 | | |

*1. There are models of the standard equipment.

7.1.4 Pickup/Delivery/Original Handling Accessories System Configuration (iR2022i/iR2022K/iR2025i/iR2030i)

iR2022i / iR2025 / iR2030

The configuration is as shown in the following figure:



F-7-4

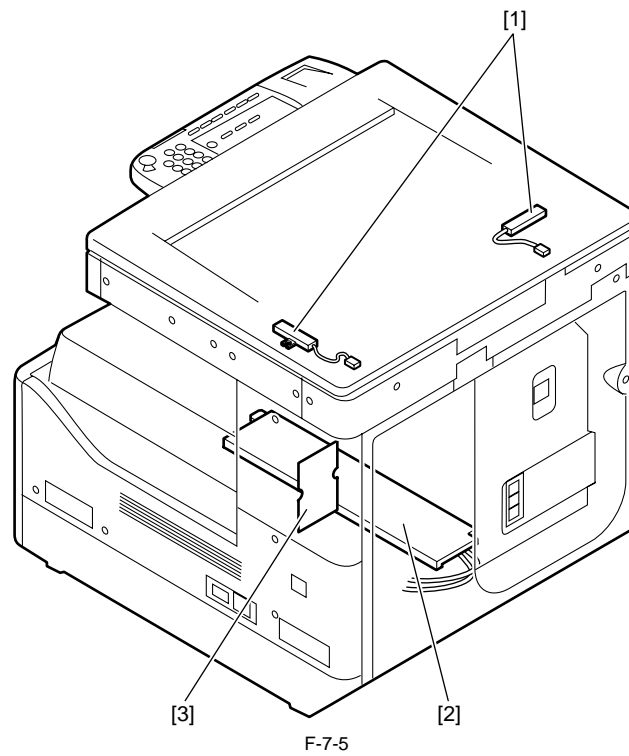
- | | | | |
|-----|-----------------------------------|-----|---------------------|
| [1] | Finisher-U2 | [6] | Duplex Unit-B1 (*1) |
| [2] | Additional Finisher Tray-C1 | [7] | Power Supply Kit-Q1 |
| [3] | Inner 2-way Tray-E2 | [8] | Document Tray-J1 |
| [4] | Cassette Feeding Module-Q1 | [9] | Card Reader-E1 |
| [5] | Cassette Heater Attachment Kit-E1 | | |

*1. There are models of the standard equipment.

7.1.5 Reader Heater/Cassette Heater System Configuration (iR2018/iR2022/iR2022N)

iR2018 / iR2022

The configuration is as shown in the following figure:



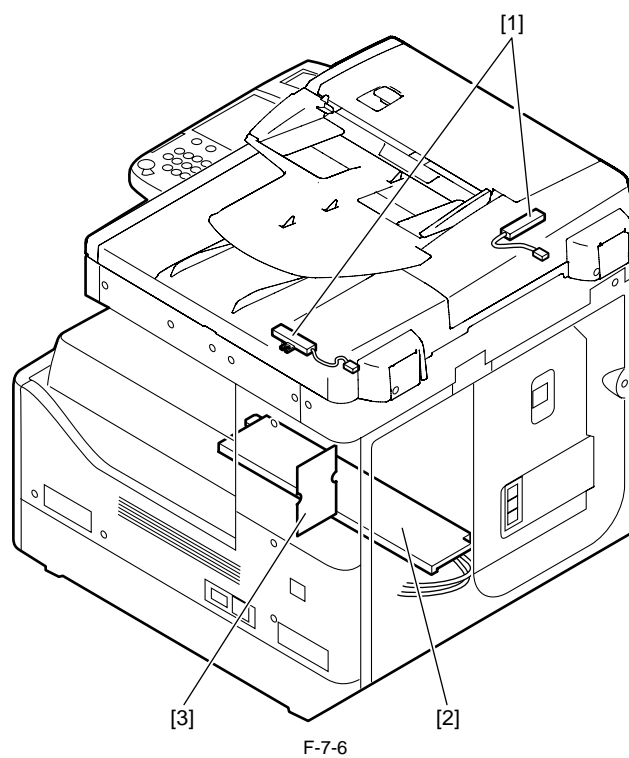
- [1] Reader Heater (*1)
- [2] Cassette Heater (*1)
- [3] Heater PCB

*1: To operate the heaters, a heater PCB is required. These parts are supplied as service parts, not the standard items.

7.1.6 Reader Heater/Cassette Heater System Configuration (iR2018i)

iR2018i

The configuration is as shown in the following figure:



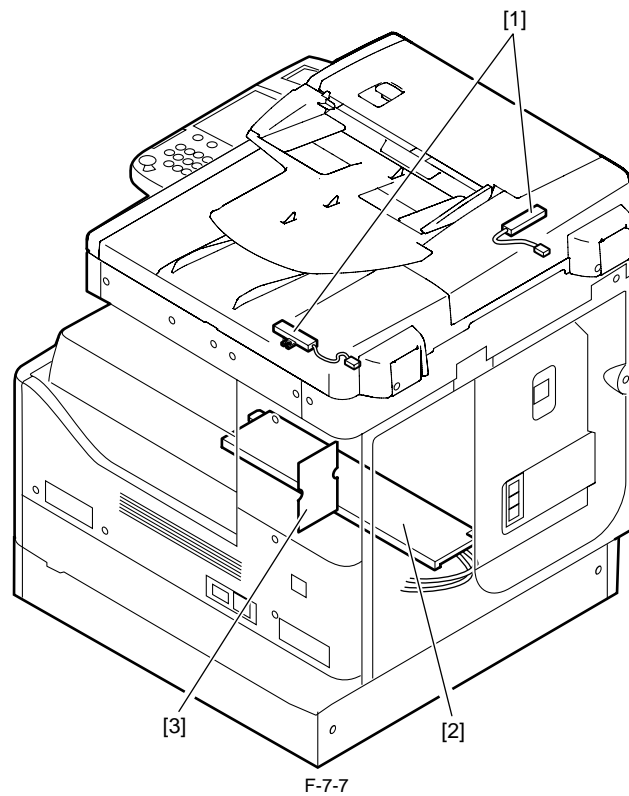
- [1] Reader Heater (*1)
- [2] Cassette Heater (*1)
- [3] Heater PCB

*1: To operate the heaters, a heater PCB is required. These parts are supplied as service parts, not the standard items.

7.1.7 Reader Heater/Cassette Heater System Configuration (iR2022K/iR2022i/iR2025/iR2025i/iR2030/iR2030i)

iR2022i / iR2025 / iR2030

The configuration is as shown in the following figure:



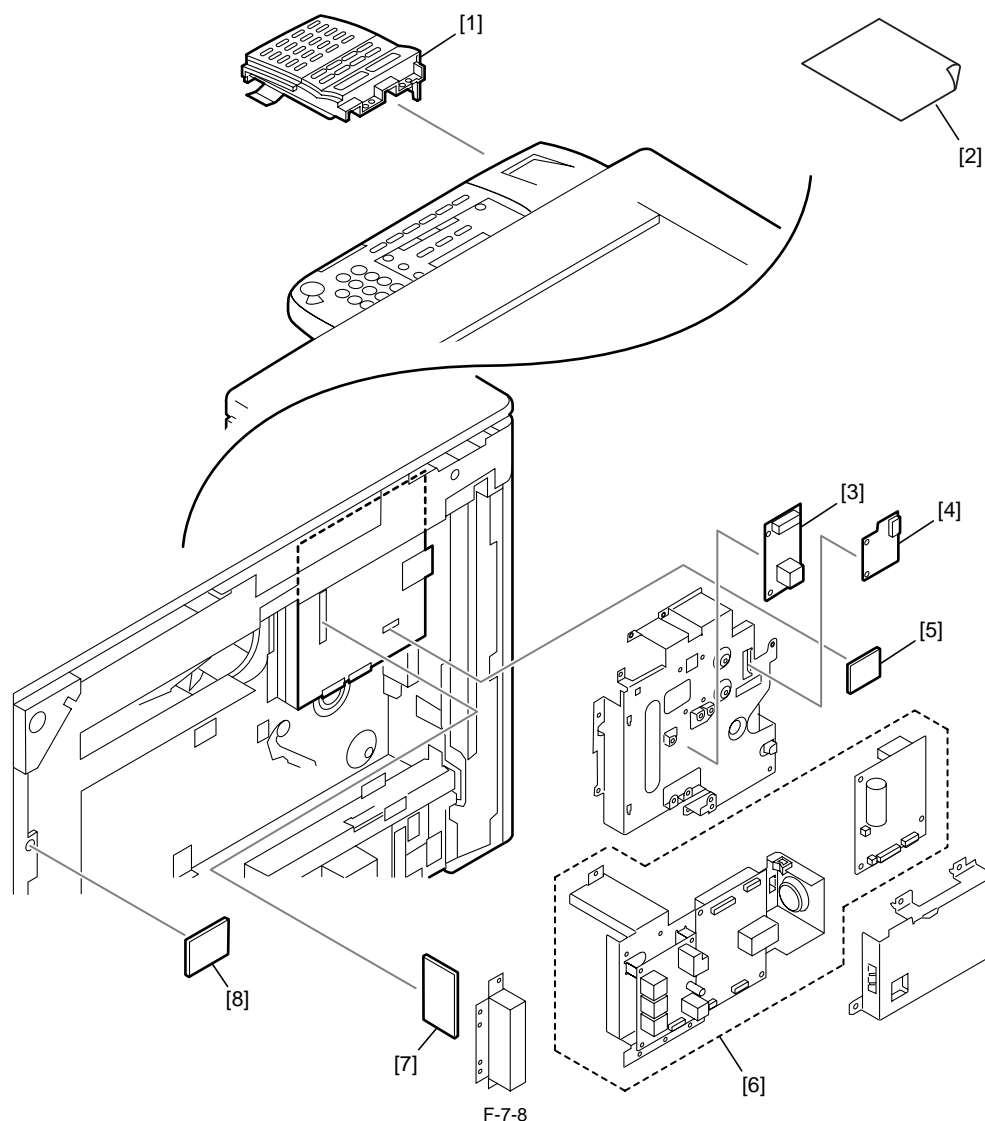
- [1] Reader Heater (*1)
- [2] Cassette Heater (*1)
- [3] Heater PCB

*1: To operate the heaters, a heater PCB is required. These parts are supplied as service parts, not the standard items.

7.1.8 Printing/Transmitting Accessories System Configuration (iR2018/iR2022/iR2022N)

iR2018 / iR2022

The configuration is as shown in the following figure:



[1] FAX Panel-A1 (*2)

[2] Barcode Printing Kit-B1 (license certificate)

[3] UFR II LT P.Kit-V1 (*1)

[4] Serial Interface Board-A2

[5] PCL Printer Kit-V1/W1 (*3)

[6] SUPER G3 FAX BD-AA1 (*2)

[7] iR128MB EXP.RAM-E1

[8] Serial Interface Kit-H1

*1: There are models of the standard equipment.

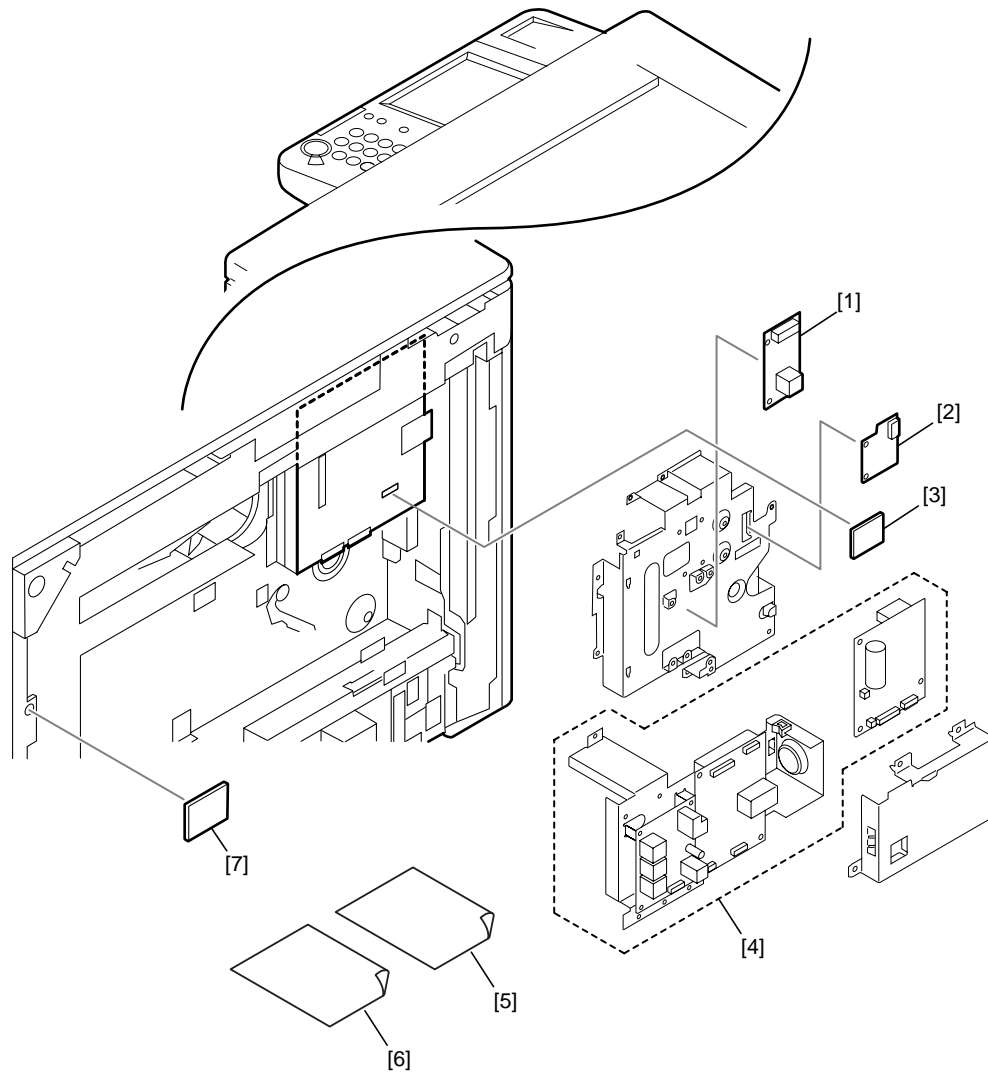
*2: To make the FAX feature effective, a FAX panel and a super G3 FAX board are required.

*3: The PCL printer kit contains a 128MB expansion RAM.

7.1.9 Printing/Transmitting Accessories System Configuration (iR2018i/iR2022i/iR2022K/iR2025/iR2025i/iR2030/iR2030i)

iR2022i / iR2025 / iR2030 / iR2018i

The configuration is as shown in the following figure:



F-7-9

- | | |
|--------------------------------|--|
| [1] UFR II LT P.Kit-V1 (*1) | [5] Color SEND Kit-L1 (license certificate) (*1) |
| [2] Serial Interface Board-A2 | [6] Barcorde Printing Kit-B1 (license certificate) |
| [3] PCL Printer Kit-V1/W1 (*1) | [7] Serial Interface Kit-H1 |
| [4] SUPER G3 FAX BD-AA1 (*1) | |

*1. There are models of the standard equipment.

7.1.10 Functions of the Printing/Transmission Functions (iR2018/iR2022/iR2022N)

iR2018 / iR2022

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

UFR II printer function (Resolution: 600dpi)	==>	UFR II LT Printer Kit-V1
UFR II printer function (Resolution: 1200dpi)	==>	UFR II LT Printer Kit-V1 iR 128MB Expansion RAM-E1
PCL print function	==>	PCL Printer Kit-V1
FAX function	==>	Super G3 FAX Board-AA1 FAX Panel-A1
Coin vender function	==>	Serial Interface board-A2
Coin vender function (RS232C type)	==>	Serial Interface kit-H1
Barcode print function	==>	Barcode Printing Kit-B1

7.1.11 Functions of the Printing/Transmission Functions (iR2018i/iR2022i/iR2022K/iR2025/iR2025i/iR2030/iR2030i)

iR2022i / iR2025 / iR2030 / iR2018i

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

Color Send Kit-L1

UFR II printer function (Resolution: 1200dpi)	==>	UFR II LT Printer Kit-V1
PCL print function	==>	PCL Printer Kit-W1
FAX function	==>	Super G3 FAX Board-AA1
Coin vender function	==>	Serial Interface board-A2
Coin vender function (RS232C type)	==>	Serial Interface kit-H1
Color SEND function	==>	Color Send Kit-L1
Barcode print function	==>	Barcode Printing Kit-B1

7.2 Product Specifications

7.2.1 Product Specifications

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

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	50% to 200%

Warm-up time	approx. 26sec
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)	5.0 -/+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	1200 dpi x 1200 dpi
First print time	6.9 sec or less
Cassette capacity	250sheets (80 g/m2)
Multifeeder tray capacity	100 sheets (A4/B5/LTR, 64 g/m2) 50 sheets (A3/B4/LDR/LGL, 64 g/m2) 100 sheets (A5/A5R/STMT, 64 g/m2) 80 sheets (A4/B5/LTR, 80 g/m2) 50 sheets (A3/B4/LDR/LGL, 80 g/m2) 80 sheets (A5/A5R/STMT, 80 g/m2) 50 sheets (heavy paper, A4/B5/LTR, 105 g/m2) 50 sheets (heavy paper, A3/B4/LDR/LGL, 105 g/m2) 50 sheets (heavy paper, A5/A5R/STMT, 105 g/m2) 50 sheets (heavy paper, A4/B5/LTR, 128 g/m2) 35 sheets (heavy paper, A3/B4/LDR/LGL, 128 g/m2) 50 sheets (heavy paper, A5/A5R/STMT, 128 g/m2) 50 sheets (OHP) 1 sheet (label) 10 sheets (envelope) 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 (iR2018/2018N/2018i: Non-equipment)
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	iR2030 series: 69.5 dB or less iR2025 series: 67.75 dB or less iR2022 series: 66.7 dB or less iR2018 series: 65.5 dB or less
Power supply rating	120/230V
Power consumption (maximum)	120V model: 1423 W or less 230V model: 1499 W or less
Power consumption	Average power consumption 120V model: 646 W or less (At the option full-equipped: 690 W) 230V model: 612 W or less (At the option full-equipped: 622 W)
Ozone	0.01 ppm or less (initial) 0.035 ppm or less (after endurance)
Dimensions	Platen/1-cassette model: 622mm x 638mm x 580.4mm (WxDxH) Platen/2-cassettes model: 622mm x 638mm x 665.4mm (WxDxH) ADF/1-cassette model: 622mm x 676mm x 672mm (WxDxH) ADF/2-cassettes model: 622mm x 676mm x 757mm (WxDxH)
Weight	Platen/1-cassette model: approx. 41 kg Platen/2-cassettes model: approx. 47 kg ADF/1-cassette model: approx. 47 kg ADF/2-cassettes model: approx. 53 kg

7.3 Function List

7.3.1 Printing Speed (iR2030/iR2030i)

iR2030

	Paper size	Single-sided		Double-sided	
		Cassette feed	Manual feed	Cassette feed	Manual feed
Plain paper	A4	30	30	27.5	27.5
	A5	25.5	25.5	-	-
	A5R	-	9.5	-	9
	B5	23	23	22.5	22.5
	B5R	9	9	9	9
	A4R	11	11	9.5	9.5
	B4	11	11	9	9
	A3	15	15	10	10
	STMT	10.5	10.5	-	9
	STMTR	-	9.5	-	9
	EXE	-	23	-	21
	LTR	30	30	27.5	27.5
	LTRR	11.5	11.5	9.5	9.5
	LGL	11	11	9	9
	LDR	15	15	9.5	9.5
	8K	10.5	10.5	9	9
	16K	23	23	22.5	22.5
	16KR	11	11	9	9
Heavy paper; 81 to 105g/ m2 *1 (Heavy paper; 106 to 128g/m2 *2)	A4	23 (-)	23 (23)	22 (-)	22 (-)
	A5	47.5 (-)	17.5 (7.5)	-	-
	A5R	-	10 (7)	-	8 (-)
	B5	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	B5R	8 (-)	8 (7.5)	7.5 (-)	7.5 (-)
	A4R	9.5 (-)	9.5 (5.5)	9 (-)	9 (-)
	B4	9.5 (-)	9.5 (6.5)	8.5 (-)	8.5 (-)
	A3	14 (-)	14 (14)	9.5 (-)	9.5 (-)
	STMT	9 (-)	9 (8)	-	8 (-)
	STMTR	-	8 (7.5)	-	-
	EXE	-	16.5 (8)	-	15.5 (-)
	LTR	22.5 (-)	22.5 (22.5)	22 (-)	22 (-)
	LTRR	9.5 (-)	9.5 (4.5)	9 (-)	9 (-)
	LGL	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
	LDR	13.5 (-)	13.5 (13.5)	9.5 (-)	9.5 (-)
	8K	9 (-)	9 (4.5)	8 (-)	8 (-)
	16K	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	16KR	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
Bond paper *3 (Bond paper H *4)	A4	-	7.5 (6)	-	7.5 (6)
	A5	-	6 (5)	-	-
	A5R	-	6 (5)	-	6 (4.5)
	B5	-	6 (5)	-	6 (5)
	B5R	-	5.5 (4.5)	-	5.5 (4)
	A4R	-	4.5 (4)	-	4.5 (3.5)
	B4	-	5.5 (4.5)	-	5 (4)
	A3	-	6 (5)	-	6 (5)
	STMT	6.5 (5)	6.5 (5)	-	-
	STMTR	-	6 (5)	-	5.5 (4.5)
	EXE	-	6 (5)	-	-
	LTR	7.5 (6)	7.5 (6)	7.5 (6)	7.5 (6)
	LTRR	4.5 (4)	4.5 (4)	4.5 (3)	4.5 (3)
	LGL	4 (3.5)	4 (3.5)	3.5 (3)	3.5 (3)
	LDR	6 (5)	6 (5)	6 (5)	6 (5)
	8K	-	-	-	-
	16K	-	-	-	-
	16KR	-	-	-	-
OHP	A4	-	30	-	-
	LTR	-	30	-	-
Envelope	Monarch	-	6.1	-	-
	COM10	-	6	-	-
	ISO-B5	-	6.1	-	-
	ISO-C5	-	6	-	-
	DL	-	6	-	-
Postcard	Postcard	-	11.5	-	-
	Double postal card	-	10.5	-	-
	4-plane post card	-	23.5	-	-

*1. Bond SP. FIX. Mode in the user mode: OFF

*2. Bond SP. FIX. Mode in the user mode: ON

Supplement:

- 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 > Special Mode S > Speed Priority 1 or 2

7.3.2 Printing Speed (iR2025/iR2025i)

iR2025

T-7-1

	Paper size	Single-sided		Double-sided	
		Casette feed	Manual feed	Casette feed	Manual feed
Plain paper	A4	25	25	23.5	23.5
	A5	25.5	25.5	-	-
	A5R	-	9.5	-	9
	B5	23	23	22.5	22.5
	B5R	9	9	9	9
	A4R	11	11	9.5	9.5
	B4	11	11	9	9
	A3	15	15	10	10
	STMT	10.5	10.5	-	9
	STMTR	-	9.5	-	9
	EXE	-	23	-	21
	LTR	25	25	27.5	27.5
	LTRR	11.5	11.5	9.5	9.5
	LGL	11	11	9	9
	LDR	15	15	9.5	9.5
	8K	10.5	10.5	9	9
	16K	23	23	22.5	22.5
	16KR	11	11	9	9
Heavy paper; 81 to 105g/ m2 *1 (Heavy paper; 106 to 128g/m2 *2)	A4	23 (-)	23 (23)	22 (-)	22 (-)
	A5	47.5 (-)	17.5 (7.5)	-	-
	A5R	-	10 (7)	-	8 (-)
	B5	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	B5R	8 (-)	8 (7.5)	7.5 (-)	7.5 (-)
	A4R	9.5 (-)	9.5 (5.5)	9 (-)	9 (-)
	B4	9.5 (-)	9.5 (6.5)	8.5 (-)	8.5 (-)
	A3	14 (-)	14 (14)	9.5 (-)	9.5 (-)
	STMT	9 (-)	9 (8)	-	8 (-)
	STMTR	-	8 (7.5)	-	-
	EXE	-	16.5 (8)	-	15.5 (-)
	LTR	22.5 (-)	22.5 (22.5)	22 (-)	22 (-)
	LTRR	9.5 (-)	9.5 (4.5)	9 (-)	9 (-)
	LGL	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
	LDR	13.5 (-)	13.5 (13.5)	9.5 (-)	9.5 (-)
	8K	9 (-)	9 (4.5)	8 (-)	8 (-)
	16K	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	16KR	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
Bond paper *3 (Bond paper H *4)	A4	-	7.5 (6)	-	7.5 (6)
	A5	-	6 (5)	-	-
	A5R	-	6 (5)	-	6 (4.5)
	B5	-	6 (5)	-	6 (5)
	B5R	-	5.5 (4.5)	-	5.5 (4)
	A4R	-	4.5 (4)	-	4.5 (3.5)
	B4	-	5.5 (4.5)	-	5 (4)
	A3	-	6 (5)	-	6 (5)
	STMT	6.5 (5)	6.5 (5)	-	-
	STMTR	-	6 (5)	-	5.5 (4.5)
	EXE	-	6 (5)	-	-
	LTR	7.5 (6)	7.5 (6)	7.5 (6)	7.5 (6)
	LTRR	4.5 (4)	4.5 (4)	4.5 (3)	4.5 (3)
	LGL	4 (3.5)	4 (3.5)	3.5 (3)	3.5 (3)
	LDR	6 (5)	6 (5)	6 (5)	6 (5)
	8K	-	-	-	-
	16K	-	-	-	-
	16KR	-	-	-	-
OHP	A4	-	30	-	-
	LTR	-	30	-	-
Envelope	Monarch	-	6.1	-	-
	COM10	-	6	-	-
	ISO-B5	-	6.1	-	-
	ISO-C5	-	6	-	-
	DL	-	6	-	-
Postcard	Postcard	-	11.5	-	-
	Double postal card	-	10.5	-	-
	4-plane post card	-	23.5	-	-

*1. Bond SP. FIX. Mode in the user mode: OFF

*2. Bond SP. FIX. Mode in the user mode: ON

Supplement:

- 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 > Special Mode S > Speed Priority 1 or 2

7.3.3 Printing Speed (iR2022/iR2022i/iR2022K/iR2022N))

iR2022i / iR2022

	Paper size	Single-sided		Double-sided	
		Casette feed	Manual feed	Casette feed	Manual feed
Plain paper	A4	22	22	21	21
	A5	25.5	25.5	-	-
	A5R	-	9.5	-	9
	B5	23	23	22.5	22.5
	B5R	9	9	9	9
	A4R	11	11	9.5	9.5
	B4	11	11	9	9
	A3	15	15	10	10
	STMT	10.5	10.5	-	9
	STMTR	-	9.5	-	9
	EXE	-	23	-	21
	LTR	22	22	27.5	27.5
	LTRR	11.5	11.5	9.5	9.5
	LGL	11	11	9	9
	LDR	15	15	9.5	9.5
	8K	10.5	10.5	9	9
	16K	23	23	22.5	22.5
	16KR	11	11	9	9
Heavy paper; 81 to 105g/ m2 *1 (Heavy paper; 106 to 128g/m2 *2)	A4	23 (-)	23 (23)	22 (-)	22 (-)
	A5	47.5 (-)	17.5 (7.5)	-	-
	A5R	-	10 (7)	-	8 (-)
	B5	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	B5R	8 (-)	8 (7.5)	7.5 (-)	7.5 (-)
	A4R	9.5 (-)	9.5 (5.5)	9 (-)	9 (-)
	B4	9.5 (-)	9.5 (6.5)	8.5 (-)	8.5 (-)
	A3	14 (-)	14 (14)	9.5 (-)	9.5 (-)
	STMT	9 (-)	9 (8)	-	8 (-)
	STMTR	-	8 (7.5)	-	-
	EXE	-	16.5 (8)	-	15.5 (-)
	LTR	22.5 (-)	22.5 (22.5)	22 (-)	22 (-)
	LTRR	9.5 (-)	9.5 (4.5)	9 (-)	9 (-)
	LGL	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
	LDR	13.5 (-)	13.5 (13.5)	9.5 (-)	9.5 (-)
	8K	9 (-)	9 (4.5)	8 (-)	8 (-)
	16K	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	16KR	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
Bond paper *3 (Bond paper H *4)	A4	-	7.5 (6)	-	7.5 (6)
	A5	-	6 (5)	-	-
	A5R	-	6 (5)	-	6 (4.5)
	B5	-	6 (5)	-	6 (5)
	B5R	-	5.5 (4.5)	-	5.5 (4)
	A4R	-	4.5 (4)	-	4.5 (3.5)
	B4	-	5.5 (4.5)	-	5 (4)
	A3	-	6 (5)	-	6 (5)
	STMT	6.5 (5)	6.5 (5)	-	-
	STMTR	-	6 (5)	-	5.5 (4.5)
	EXE	-	6 (5)	-	-
	LTR	7.5 (6)	7.5 (6)	7.5 (6)	7.5 (6)
	LTRR	4.5 (4)	4.5 (4)	4.5 (3)	4.5 (3)
	LGL	4 (3.5)	4 (3.5)	3.5 (3)	3.5 (3)
	LDR	6 (5)	6 (5)	6 (5)	6 (5)
	8K	-	-	-	-
	16K	-	-	-	-
	16KR	-	-	-	-
OHP	A4	-	30	-	-
	LTR	-	30	-	-

Envelope	Monarch	-	6.1	-	-
	COM10	-	6	-	-
	ISO-B5	-	6.1	-	-
	ISO-C5	-	6	-	-
	DL	-	6	-	-
Postcard	Postcard	-	11.5	-	-
	Double postal card	-	10.5	-	-
	4-plane post card	-	23.5	-	-

*1. Bond SP. FIX. Mode in the user mode: OFF

*2. Bond SP. FIX. Mode in the user mode: ON

Supplement:

- 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 > Special Mode S > Speed Priority 1 or 2

7.3.4 Printing Speed (iR2018/iR2018i/iR2018N)

iR2018 / iR2018i

	Paper size	Single-sided		Double-sided	
		Casette feed	Manual feed	Casette feed	Manual feed
Plain paper	A4	18	18	18	18
	A5	25.5	25.5	-	-
	A5R	-	9.5	-	9
	B5	23	23	22.5	22.5
	B5R	9	9	9	9
	A4R	11	11	9.5	9.5
	B4	11	11	9	9
	A3	15	15	10	10
	STMT	10.5	10.5	-	9
	STMTR	-	9.5	-	9
	EXE	-	23	-	21
	LTR	18	18	27.5	27.5
	LTRR	11.5	11.5	9.5	9.5
	LGL	11	11	9	9
	LDR	15	15	9.5	9.5
	8K	10.5	10.5	9	9
	16K	23	23	22.5	22.5
	16KR	11	11	9	9
Heavy paper; 81 to 105g/ m2 *1 (Heavy paper; 106 to 128g/m2 *2)	A4	23 (-)	23 (23)	22 (-)	22 (-)
	A5	47.5 (-)	17.5 (7.5)	-	-
	A5R	-	10 (7)	-	8 (-)
	B5	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	B5R	8 (-)	8 (7.5)	7.5 (-)	7.5 (-)
	A4R	9.5 (-)	9.5 (5.5)	9 (-)	9 (-)
	B4	9.5 (-)	9.5 (6.5)	8.5 (-)	8.5 (-)
	A3	14 (-)	14 (14)	9.5 (-)	9.5 (-)
	STMT	9 (-)	9 (8)	-	8 (-)
	STMTR	-	8 (7.5)	-	-
	EXE	-	16.5 (8)	-	15.5 (-)
	LTR	22.5 (-)	22.5 (22.5)	22 (-)	22 (-)
	LTRR	9.5 (-)	9.5 (4.5)	9 (-)	9 (-)
	LGL	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
	LDR	13.5 (-)	13.5 (13.5)	9.5 (-)	9.5 (-)
	8K	9 (-)	9 (4.5)	8 (-)	8 (-)
	16K	16.5 (-)	16.5 (8)	16 (-)	16 (-)
	16KR	9.5 (-)	9.5 (4.5)	8.5 (-)	8.5 (-)
Bond paper *3 (Bond paper H *4)	A4	-	7.5 (6)	-	7.5 (6)
	A5	-	6 (5)	-	-
	A5R	-	6 (5)	-	6 (4.5)
	B5	-	6 (5)	-	6 (5)
	B5R	-	5.5 (4.5)	-	5.5 (4)
	A4R	-	4.5 (4)	-	4.5 (3.5)
	B4	-	5.5 (4.5)	-	5 (4)
	A3	-	6 (5)	-	6 (5)
	STMT	6.5 (5)	6.5 (5)	-	-
	STMTR	-	6 (5)	-	5.5 (4.5)
	EXE	-	6 (5)	-	-
	LTR	7.5 (6)	7.5 (6)	7.5 (6)	7.5 (6)
	LTRR	4.5 (4)	4.5 (4)	4.5 (3)	4.5 (3)
	LGL	4 (3.5)	4 (3.5)	3.5 (3)	3.5 (3)
	LDR	6 (5)	6 (5)	6 (5)	6 (5)
	8K	-	-	-	-
	16K	-	-	-	-
	16KR	-	-	-	-
OHP	A4	-	30	-	-
	LTR	-	30	-	-

Envelope	Monarch	-	6.1	-	-
	COM10	-	6	-	-
	ISO-B5	-	6.1	-	-
	ISO-C5	-	6	-	-
	DL	-	6	-	-
Postcard	Postcard	-	11.5	-	-
	Double postal card	-	10.5	-	-
	4-plane post card	-	23.5	-	-

*1. Bond SP. FIX. Mode in the user mode: OFF

*2. Bond SP. FIX. Mode in the user mode: ON

Supplement:

- 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 > Special Mode S > Speed Priority 1 or 2

7.3.5 Types of Paper

iR2022i / iR2025 / iR2030 / iR2018 / iR2022 / iR2018i

Type		Paper size	Source	
			Manual Feed Tray	Cassette
Plain paper, eco paper, recycled paper (64-90g/m ²)		A3, B4, A4, A4R, B5, B5R, A5, LDR, LGL, LTR, LTRR, STMT, 8K, 16K	Yes	Yes
		A5R, STMTR	Yes	No
Special paper	Heavy paper (90-128g/m ²)	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	LTR	Yes	Yes
	Envelope	Com10, Monarch, DL, ISO-C5, ISO-B5	Yes	No

Chapter 8 Upgrading

8.1 Upgrading

8.1.1 Overview of Upgrade (LCD type)

iR2018 / iR2022

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-8-1

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-V1)	Yes	
	Fin_U2 (Finisher-U2)	Yes	Dedicated service tool (Downloader PCB: FY9-2034)



Pay attention to the following points when upgrading.

1. When upgrading Boot, make sure to update Boot first.
2. When upgrading the following software, make sure to update all to the same version.
 - System
 - PCL

8.1.2 Overview of Upgrade (Touch panel type)

iR2022i / iR2025 / iR2030 / iR2018i

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-8-2

Type	System software type	Upgrade tool	Remarks
		SST	
Main unit	System (main controller)	Yes	Main controller also controls the reader.
	Boot (boot program)	Yes	
	Language (language module)	Yes	USB memory
	PCL_op	Yes	16MB ROM PCB
Option	PCL_common (PCL Printer Kit-W1)	Yes	*1
	Fin_U2 (Finisher-U2)	Yes	Dedicated service tool (Downloader PCB: FY9-2034)

*1. PCL_common is the software stored in the optionally available extended 32MB ROM PCB. It consists of the firmware for PCL printer function and the main control firmware. Inserting the 32MB ROM PCB in the extended slot in the image processor PCB allows the main controller to operate under the control of the firmware stored in the 32MB ROM PCB.

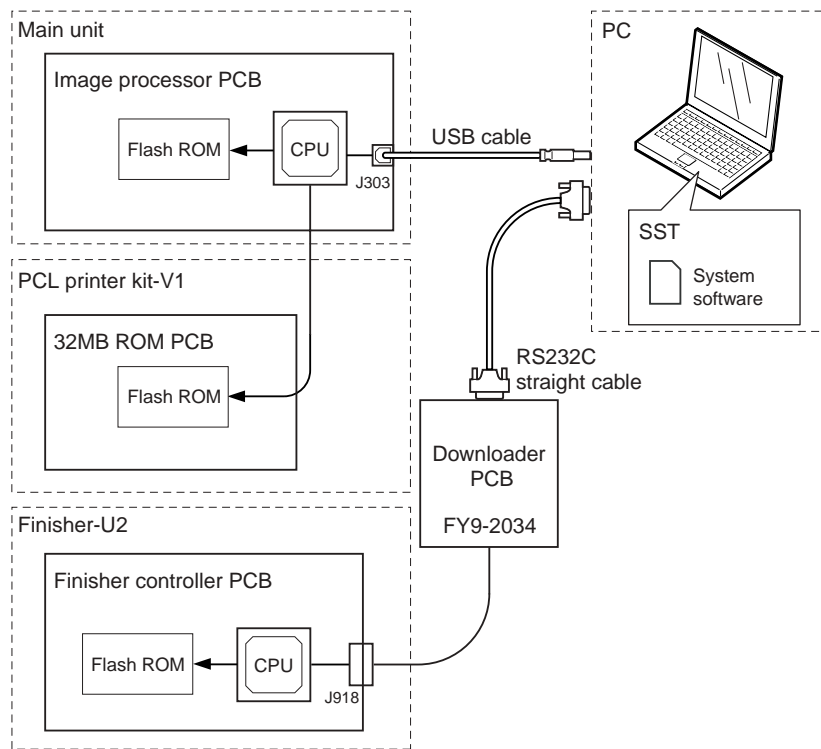


Pay attention to the following points when upgrading.

1. When upgrading Boot, make sure to update Boot first.
2. When upgrading the following software, make sure to update all to the same version.
 - System
 - Language
 - PCL

8.1.3 Overview of Service Support Tool (LCD type)

iR2018 / iR2022

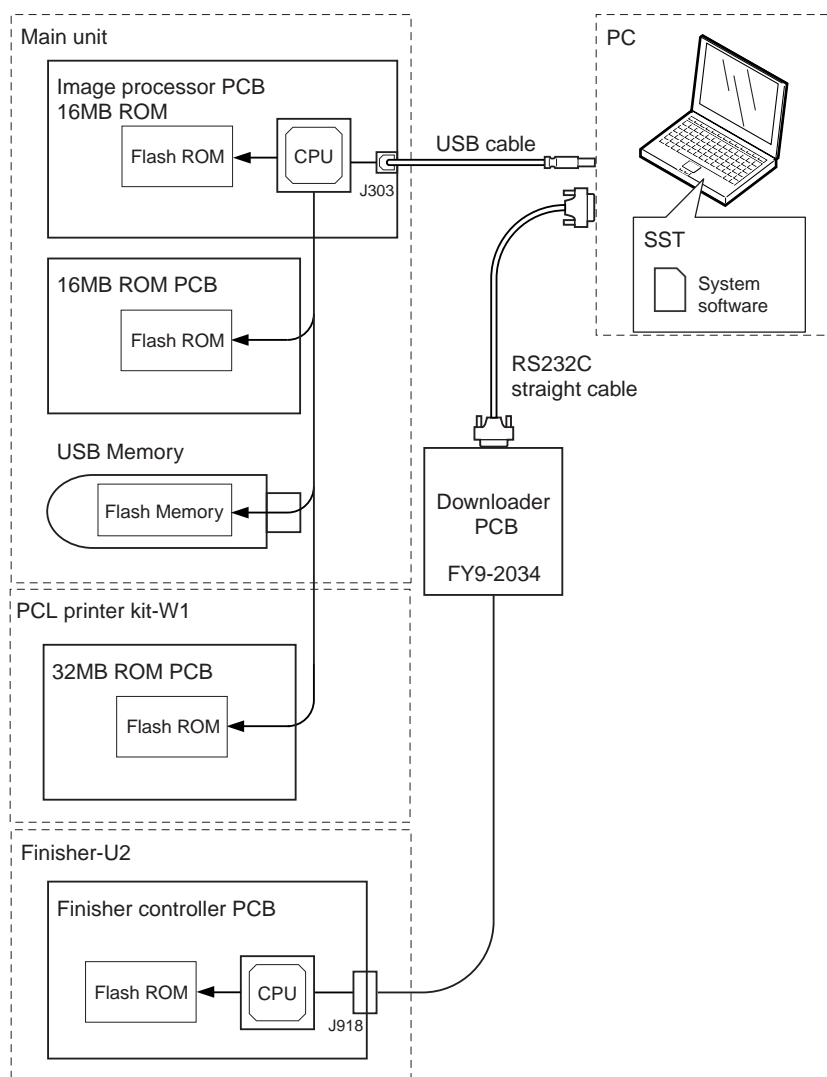


F-8-1

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.)

8.1.4 Overview of Service Support Tool (Touch panel type)

iR2022i / iR2025 / iR2030 / iR2018i



F-8-2

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.)

Aug 8 2007

