

Portable Manual

iR7105/7095/7086 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

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Some parts of the machine must be replaced on a periodical basis to ensure a specific level of machine performance. (They are likely to affect the performance once they fail even in the absence of external change or damage.)

Whenever possible, plan their replacement so that it will coincide with a scheduled service visit.



The values indicated are estimates only and are subject to change according to the site environment and usage habit.

- Checking the Timing of Replacement

You can check the timing of replacement in service mode:

COPIER > COUNTER > PRDC-1

1.1.2 Machine Proper

iR7105 / iR7095 / iR7086

T-1-1

As of Nov 2005

No.	Parts name	Parts No.	Q'ty	Life (pages)	Remarks
1	Pre-transfer/transfer/separation charging wire	FB4-3687-000	AR	500,000*	if high temperature/humidity, 250,000 prints
2	Primary charging wire	FB4-3687-000	AR	500,000*	if high temperature/humidity, 250,000 prints if normal temperature/low humidity, 400,000
3	Primary grid wire	FY1-0883-000	AR	500,000*	
4	Main thermistor	FG6-7748-020	1	500,000	
5	Sub thermistor	FH7-7464-000	1	500,000	
6	Thermal switch unit	FG6-7745-000	1	1,000,000	
7	Ozone filter (drum)	FB6-0776-000	1	1,000,000	
8	Ozone filter (separation)	FB6-0397-000	1	1,000,000	
9	Ozone filter (fixing)	FC7-3082-000	1	1,000,000	
10	Side seal (front)	FL2-5152-000	1	500,000	
11	Side seal (rear)	FL2-5153-000	1	500,000	



The values above are estimates only, and are subject to change based on future data.

* Old type (full plated type) may not be used.

After replacing the charging wire, be sure to execute wire cleaning in service mode: COPIER > FUNCTION > CLEANING > WIRE-CLN.

* After the work, be sure to move the cleaning holder manually toward the front before putting the charging assembly back into the machine.

1.2 Durables and Consumables

1.2.1 Overview

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Some parts of the machine may have to be replaced once or more over the warranty period of the product because of deterioration or damage. Replace them when they have failed.

- Checking the Timing of Replacement

You can check the timing of replacement in service mode:

- Main Machine

COPIER > COUNTER > DRBL-1

- Accessory

COPIER > COUNTER > DRBL-2

1.2.2 Machine Proper

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T-1-2

As of Nov 2005

No.	Parts name	Parts No.	Q'ty	Life (pages)	Remarks
1	Developing cylinder	FB6-2370-020	1	1,000,000	
2	Developing assembly roll	FS5-6579-000	2	1,000,000	
3	Cleaner separation claw	FB4-8018-000	3	500,000	if high temperature/humidity, 250,000 prints
4	Cleaning blade	FB6-2720-000	1	1,000,000	use both edges, each for 500,000 prints; upon replacement, apply toner
5	Primary charging assembly	FG6-7313-000	1	1,000,000	
6	Transfer/separation charging assembly	FG6-8733-020	1	1,000,000	
7	Pre-transfer charging assembly	FG6-8740-000	1	1,000,000	

No.	Parts name	Parts No.	Q'ty	Life (pages)	Remarks
8	Primary charging wire cleaner 1	FF5-6883-000	2	500,000	if high temperature/humidity, 250,000 prints
9	Primary charging wire cleaner 2	FF5-6884-000	2	500,000	if high temperature/humidity, 250,000 prints
10	Transfer charging wire cleaner 1	FF5-6883-000	1	500,000	if high temperature/humidity, 250,000 prints
11	Transfer charging wire cleaner 2	FF5-6884-000	1	500,000	if high temperature/humidity, 250,000 prints
12	Separation charging wire cleaner	FF5-7891-020	1	500,000	if high temperature/humidity, 250,000 prints
13	Pre-transfer charging wire cleaner	FF5-9552-000	1	500,000	if high temperature/humidity, 250,000 prints
14	Pre-transfer charging assembly scraper	FF6-1031-000	1	1,000,000	
15	Fixing upper roller	FB5-6930-000	1	500,000	
16	Fixing lower roller	FB6-2374-000	1	500,000	
17	Fixing web	FY1-1157-000	1	500,000	
18	Insulating bush (front/rear)	FB5-6934-000	2	500,000	simultaneously with fixing upper roller
19	Fixing roller bearing	XG9-0421-000	2	1,000,000	
20	Fixing pressure roller bearing	XG9-0447-000	2	1,000,000	
21	Delivery upper separation claw	FB5-3625-000	6	500,000	
22	Delivery lower separation claw	FA2-9037-000	2	1,000,000	
23	Pickup roller (deck, cassette)	FF5-7829-000 (front) FF5-7830-000 (rear)	8	500,000	actual number of prints (2 pc. for each paper source) actual number may be checked in service mode* left deck: LD-PU-RL right deck: RD-PU-RL cassette 3: C3-PU-RL cassette 4: C4-PU-RL
24	Feeding roller (deck, cassette)	FB6-0615-000	8	500,000	actual number of prints (2 pc. for each paper source) actual number may be checked in service mode* left deck: LD-FD-RL right deck: RD-FD-RL cassette 3: C3-FD-RL cassette 4: C4-FD-RL
25	Separation roller (deck, cassette)	FB5-6586-000	4	500,000	actual number of prints (1 pc. for each paper source) actual number may be checked in service mode* left deck: LD-SP-RL right deck: RD-SP-RL cassette 3: C3-SP-RL cassette 4: C4-SP-RL
26	Pickup roller (manual feed tray)	FF5-7829-030 (front) FF5-7830-000 (rear)	2	120,000	actual number of prints actual number may be checked in service mode* M-PU-RL
27	Feeding roller (manual feed tray)	FB4-2035-000	2	120,000	actual number of prints actual number may be checked in service mode* M-FD-RL
28	Separation roller (manual feed tray)	FB2-7545-000	1	120,000	actual number of prints actual number may be checked in service mode* M-SP-RL
29	Cleaner side scraper (font)	FB5-6868-000	1	1,000,000	
30	Cleaner side scarper (rear)	FB5-6869-000	1	1,000,000	
31	Developing Cylinder Clutch	FH6-5015-020	1	1,000,000	
32	Developing Cylinder Decelerating Clutch	FH6-5017-020	1	1,000,000	

*: Use the following service mode item: COPIER > COUNTER > DRBL-1.

1.3 Scheduled Servicing Basic Procedure

1.3.1 Scheduled Servicing Basic Procedure

iR7105 / iR7095 / iR7086



- As a rule, perform schedule servicing every 500,000 prints.
- Before setting out for a visit, check the service book, and take parts for which replacement is expected.
- If cleaned with alcohol, each charging wire must be checked to make sure that it is fully dry (solvent) before putting it back in the machine.
- If left alone for a long time in an area subject to dust, humidity, or oil smoke, the power plug can collect dust, which will absorb moisture to suffer an insulation fault, turning into a possible source of fire.
Be sure to disconnect it on a periodical basis, and clean it and the area around the power outlet using a dry cloth.

T-1-3

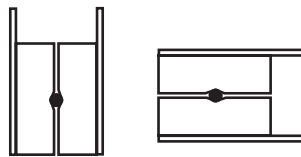
As of Nov 2005			
No.	Step	Work	Remarks
1	Report to the person in charge.	Check the general condition.	
2	Record the counter reading.	Check the faulty output.	

As of Nov 2005			
No.	Step	Work	Remarks
3	Make test prints.	a. image density b. soiling of white background c. character clarity d. lead edge margin e. fixing, registration (for displacement), back (for soiling)	Standard (simplexing) lead edge: 4.0±1.5/-1.0mm left/right: 2.5±1.5mm trail edge: 2.5±1.5mm
4	Clean the charging assemblies: - charging wire (primary, pre-transfer, transfer/separation) - grid wire (primary charging assembly) - charging assembly shielding plate - roller electrode		Dry wipe with lint-free paper, and clean with alcohol.

⚠ Points to Note When Cleaning/Replacing the Charging Wire or Replacing the Charging Wire Cleaner

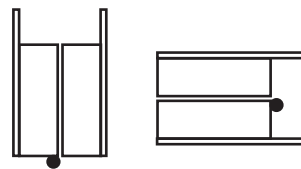
After the following, check to make sure that the charging wire is in the middle of the charging wire cleaner; failure to observe this is likely to cause image faults:

- a. cleaning the charging wire
- b. replacing the charging wire
- c. moving the charging wire cleaner by hand
- d. replacing the charging wire cleaner



F-1-1

Correct

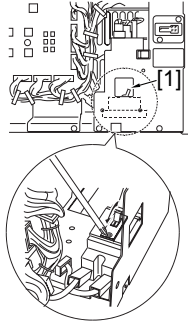



F-1-2

Wrong

T-1-4

No.	Step	Work	Remarks
5	Clean the optical assembly: - No. 1/2/3 mirror - dust-blocking glass - scanning lamp reflecting plate - standard white plate		Use a blower brush. If dirt resists removal, use alcohol.
6	Check the optical system: - scanner cable - scanner rail	Check the area around the cable. Clean the sliding area, and apply silicone oil (FY9-6011).	Check the scanner cable only at the first 250,000 prints.
7	Dispose of the waste toner, and check the case.	If the case is half full with waste toner, dispose of the waste toner in a vinyl bag. Or, replace the case itself.	
8	Clean the filters. - ozone filter - dust filter		Remove the dust from the filter surface.
9	Clean the developing assembly. - developing assembly roll	Clean the developing assembly roll.	
10	Clean the pickup /transport assembly. - transfer guide (upper, lower) plate - registration roller (upper, lower) - transport belt - transport rollers - scanner sensor (prism)		Use an air blower, or dry wipe. (Do not use solvent.)
11	Clean the fixing/delivery assembly. - separation claw (upper, lower) - transport rollers - inlet guide - web (check) - web oil receptacle - thermistor - sub thermistor - thermal switch		
12	Clean the cleaner assembly. - side scraper		

No.	Step	Work	Remarks
13	Clean the duplexing assembly. - duplexing horizontal registration sensor		
14	Clean the copyboard glass.		
15	Make test prints.		
16	Make sample prints.		
17	Press the leakage breaker test switch to see the breaker operates normally. Thereafter, turn off the power switch, and shift the lever to ON position; then, turn the power switch back on.	Press the test switch while the power switch is in ON position and, in addition, the lever [1] of the leakage breaker is also in ON position. If normal, the breaker will go off to cut the power. (If you are replacing it, pay attention to its orientation.) If you have replaced the leakage breaker, be sure to check the breaker after replacement.	
 <p>Check to see that the grounding is proper. Otherwise, the leakage breaker may fail to go on in the event of a leak.</p>			
18	Put sample prints in order, and clean up the area around the machine.		
19	Record the most recent counter reading.		
20	Update the service book, and report to the person in charge.	Record the history of checks made on the leakage breaker.	

1.3.2 Scheduled Servicing Chart

iR7105 / iR7095 / iR7086

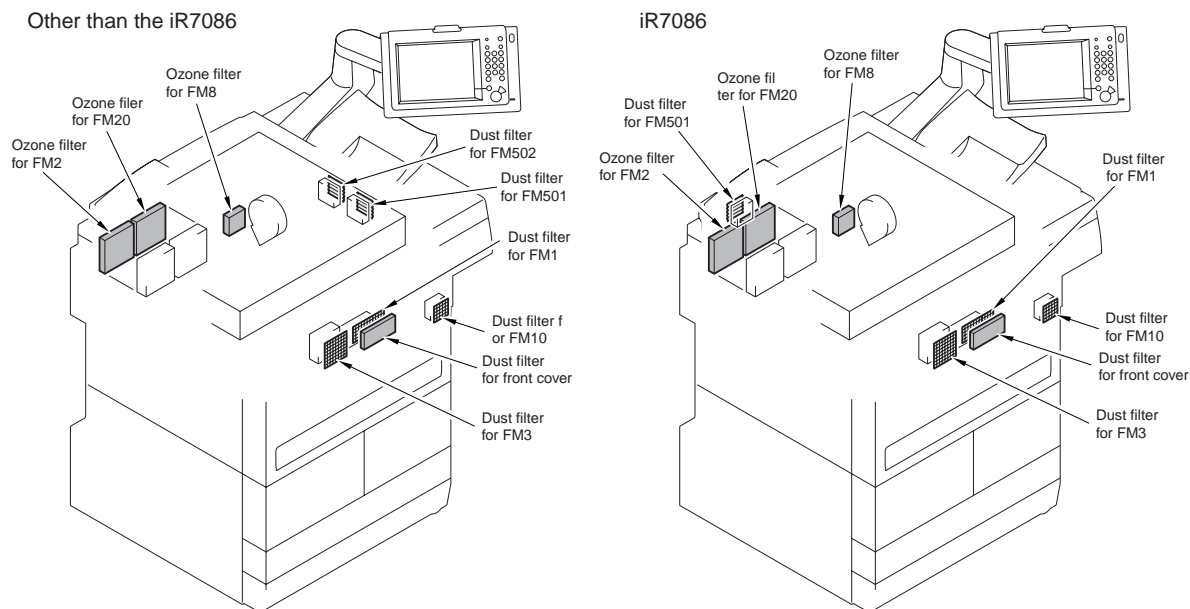


Do not use solvents other than those indicated.

T-1-5

Unit name	Location	Maintenance intervals			Remarks
		upon installation	every 500,000 prints	every 1,000,000 prints	
Externals/controls	copyboard glass		clean		
	ozone filter (FM2, FM8, FM20)		clean	replace	Remove the dust from the filter surface.
	dust filter (FM1, FM3, FM10, FM501, FM502 (other than iR7086); front cover)		clean		Remove the dust from the filter surface.
Scanner	scanner cable		inspect adjust		
	scanner rail		clean lubricate		silicone oil S-20 (FY9-6011)
Optical assembly	No. 1 to No. 3 mirrors		clean		
	Dust-proof glass		clean		
	Reflecting plate		clean		
	Standard white plate		clean		
Charging assembly	charging wire (primary)	clean	replace		If high temperature/humidity, every 250,000 prints.
	charging wire (transfer/separation)	clean	replace		If high temperature/humidity, every 250,000 prints.
	charging wire (pre-transfer)	clean	replace		If high temperature/humidity, every 250,000 prints.
	grid wire (primary)	clean	replace		If normal temperature/low humidity, every 400,000 prints.
	charging assembly shielding plates	clean	clean		If high temperature/humidity, every 250,000 prints.
	roller electrode	clean	clean		If high temperature/humidity, every 250,000 prints.
Photosensitive drum	pre-transfer exposure LED	clean	clean		200 V machine only
	photosensitive drum		clean		Use alcohol and drum cleaning powder (CK-0429).

Unit name	Location	Maintenance intervals			Remarks
		upon installation	every 500,000 prints	every 1,000,000 prints	
	electrode of stop ring for drum heater			clean lubricate	Clean the following using alcohol, and apply FY9-6008 on the charge collecting brush: - electrode of slip ring - wall surface of protrusion on electrode - charge collecting brush
Developing assembly	developing cylinder	inspect			
Cleaner	developing roll		clean		
	side scraper		clean		
	toner receptacle (rear, front)		clean		
	toner supply mouth		clean		
	magnet roller plate		clean		
Fixing assembly	inlet guide		clean		
	web	inspect			Take up at time of installation.
	oil receptacle		clean		
	thermistor		replace		
	sub thermistor		replace		
Optical sensor	thermal switch			replace	
	sensor		clean		If high temperature/humidity, every 250,000 prints.
	reflecting prism		clean		If high temperature/humidity, every 250,000 prints.
Waste toner	waste toner case		inspect		Inspect/remove.
Waste case	Transfer guide		clean		
Pickup/transfer assembly	registration roller (upper, lower)		clean		
	transport belt		clean		
	delivery upper separation claw		replace		
	delivery lower separation claw		replace		
	transport rollers		clean		
Duplexing assembly	duplexing horizontal registration sensor		clean		
	duplexing rubber roller		clean		



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1.3.3 Scheduled Maintenance Work Procedure

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Perform the following to service the area around the drum as part of scheduled maintenance:

Work 1

- a. cleaning the side scraper assembly
- b. cleaning the toner receptacle



Do not rotate the magnet roller drive assembly during the work. Doing so could cause waste toner to drop from the cleaner assembly.

1) Slide out the process unit.

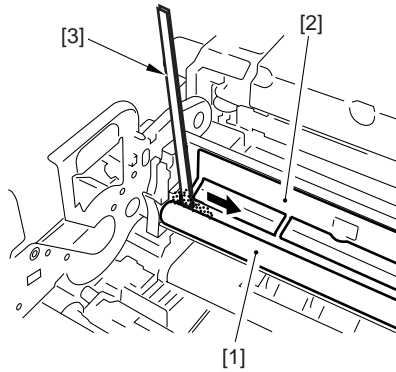


Be sure to place paper over the fixing/transport unit.

2) Take out the photosensitive drum.

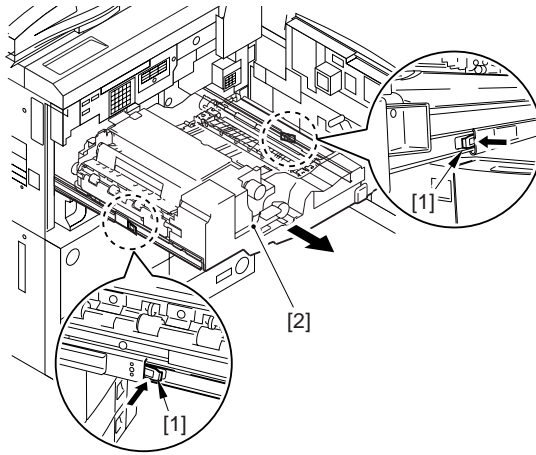
3) Remove the cleaning blade assembly.

4) Move the waste toner collecting in front of the magnet roller [1] and the scraper [2] using a piece of paper [3] in the direction of the feedscrew (rear).



F-1-4

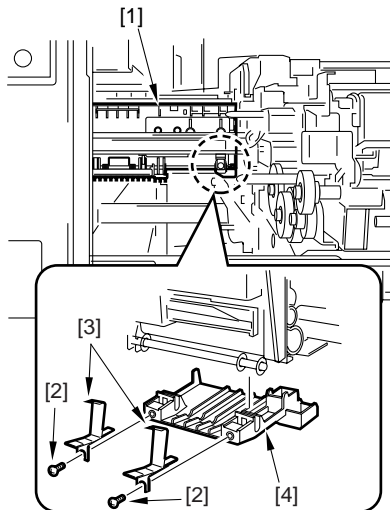
5) Release the 2 locks [1] of the slide rail, and slide the fixing/transport unit [2] farther toward the front.



F-1-5

6) With the cleaner assembly [1] slid halfway out, remove the screw [2] (1 pc. each), and detach the 2 toner receptacle fixing plates [3].

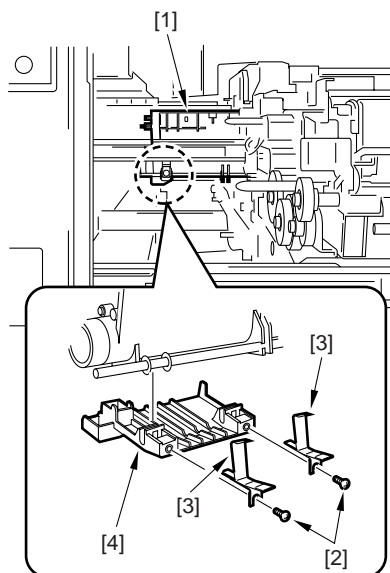
7) Remove the front toner receptacle [4], and remove the toner from the front toner receptacle.



F-1-6

8) Slide the cleaner assembly [1] fully out, and remove the screw [2] (1 pc. each); then, detach the 2 toner receptacle fixing plates [3].

9) Remove the rear toner receptacle [4], and remove the toner from the rear toner receptacle.



F-1-7

Work 2

- a. cleaning the photosensitive drum
- b. removing the toner from the magnet roller assembly
- c. turning over/replacing the cleaning blade



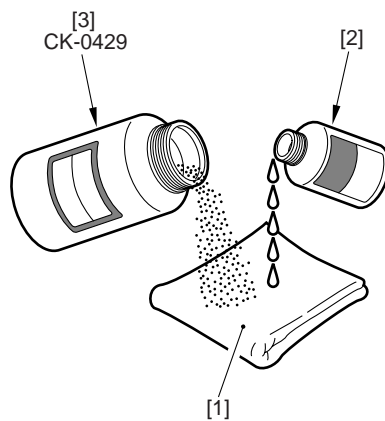
Do not rotate the magnet during the work. Otherwise, waste toner could drop from the cleaner assembly.

- 1) Slide out the process unit.



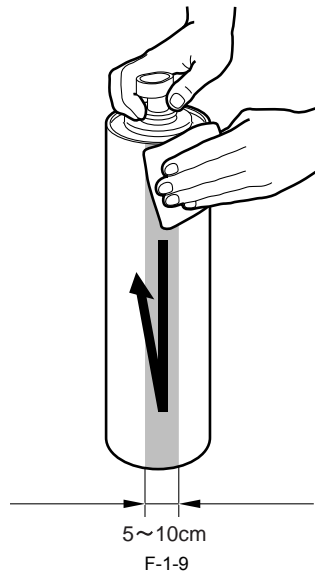
Be sure to place paper over the fixing/transport unit.

- 2) Remove the photosensitive drum.
- 3) Moisten lint-free paper [1] with 5 to 10 cc of alcohol [2]; then, collect 0.2 to 0.3 g of drum cleaning powder (CK-0429) [3] with the lint-free paper.



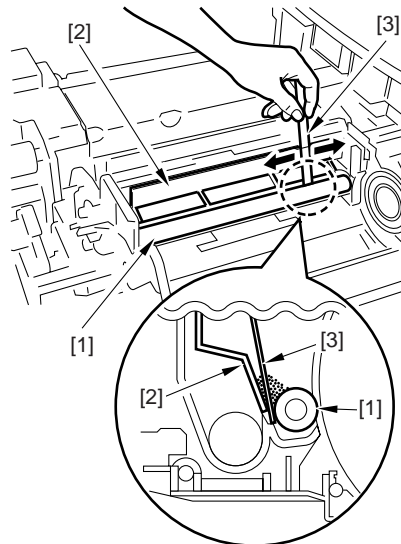
F-1-8

- 4) While forcing the lint-free paper against the photosensitive drum, wipe it as if to rub it from the front to the rear and then from the rear to the front.



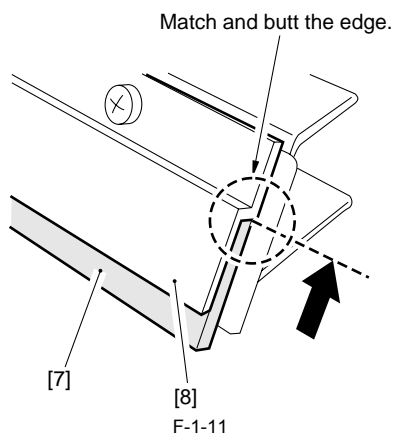
- Rub it over a width of 5 to 10 cm in drum peripheral direction.
- The drum life is not likely to be affected if the back-and-forth strokes of the lint-free paper over a single area is limited to 15 to 20 times.

- 5) When alcohol has evaporated, dry wipe the surface with lint-free paper. If the surface cleaned with the lint-free paper is uneven, go back to step 4), and repeat the work by increasing the number of back-and-forth strokes.
 - 6) Rotate the drum an equivalent of the width over which its surface has been cleaned, and repeat steps 3) through 5) until the entire surface of the drum has been cleaned.
 - 7) Remove the cleaning blade assembly.
 - 8) Insert a ruler [3] between the magnet roller [1] and the scraper [2]; then, move it back and forth from the rear to the front and then from the front to the rear to break any cakes of waste toner.
 - 9) Rotate the magnet roller [1] to see that the coating of waste toner is even.
- If the following is noted, repeat step 8):
- the surface of the magnet roller is a clearly recognizable lined coating of toner.
 - there are dents in parts of the surface.
 - there is a cake of toner.



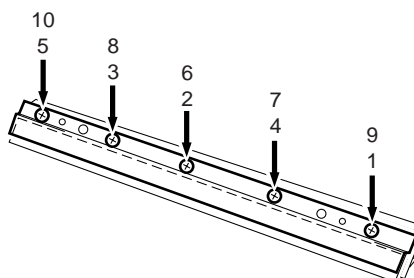
F-1-10

- 10) Remove the cleaning blade from the cleaning blade assembly.
- 11) Turn over or replace the cleaning blade [7]; then, match and butt it against the rear of the blade retaining plate [8].



When butting the blade, force it down with your fingers, making sure there is no gap.

12) Tighten the following screws temporarily in the order indicated:
- temporarily tighten screws from 1 through 5



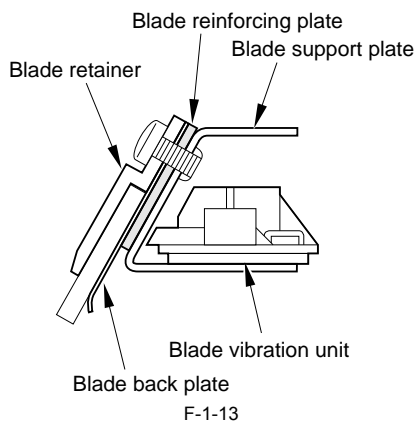
F-1-12



Keep the blade using the plate, and tighten the screws.

- fully tighten screws 6 through 10.

13) Apply toner to the edge of the cleaning blade where the blade comes into contact with the photosensitive drum, and mount the blade:



F-1-13



When mounting the cleaning blade, be sure to put the blade reinforcing plate between the blade support plate and the blade back plate.



After mounting the cleaning blade, turn the drum. If the cleaning blade fails to catch the toner, repeat the foregoing steps. If tightening the screws for a second time fails to correct the fault, replace the cleaning blade.

1.3.4 Points to Note About Schedule Servicing

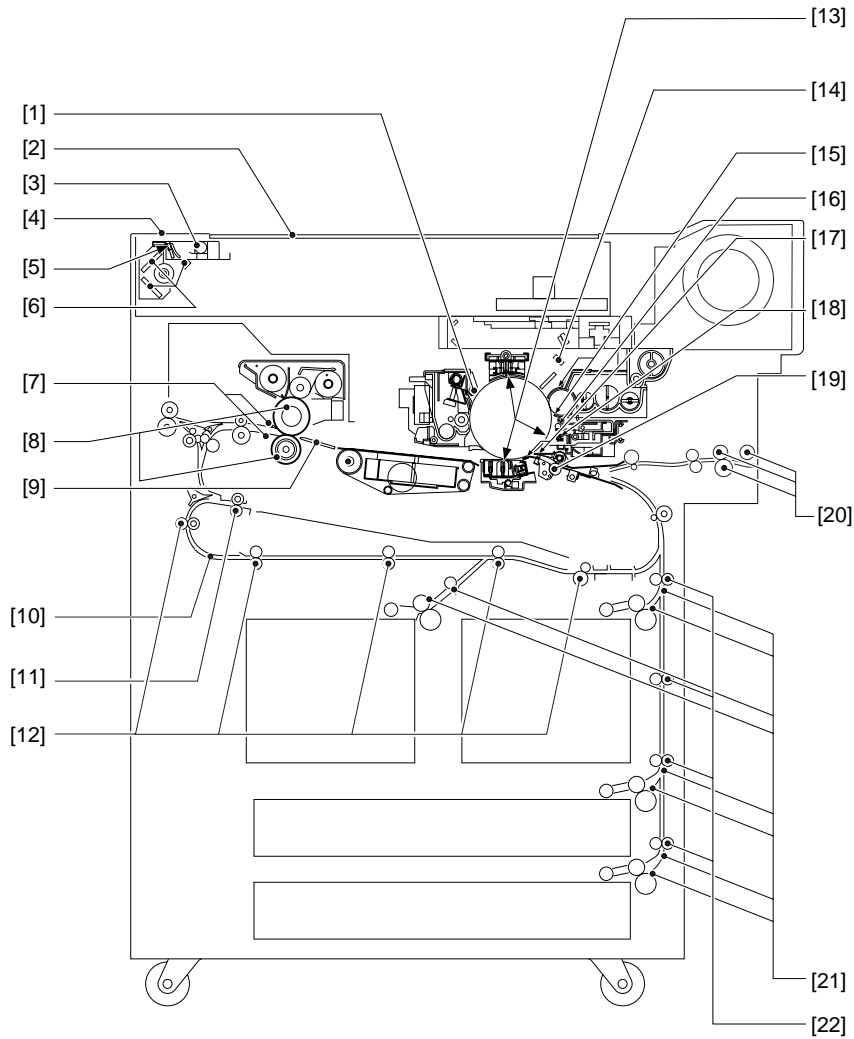
iR7105 / iR7095 / iR7086



- Make a thorough check to see that there is no melting, thermal deformation, cracking, or discoloration (yellowish) caused by leakage in the block (front, rear). If

any abnormal condition is noted, replace it with a new one as soon as possible.

- Be sure to check and clean all the way, including the inner side of the block (front, rear).
- Never use a cloth with any metal particles.
- Do not use a moist cloth for areas other than those for which doing so is specifically mentioned. If alcohol has been used, be sure it has dried completely before putting the part back into the machine.
- Whenever possible, perform scheduled servicing and replacement at the indicated intervals.



F-1-14
T-1-6

Item	Tool/solvent	Remarks
[1] pre-exposure lamp	alcohol	cleaning
[2] copyboard glass	alcohol	cleaning
[3] scanning lamp	lint-free paper	dry wiping
[4] standard white plate	lint-free paper	dry wiping
[5] reflecting plate	blower brush	cleaning
[6] No. 1 through No. 3 mirrors	blower brush or lint-free paper	cleaning or blowing; if dirt persists, dry wiping with lint-free paper
[7] separation claw	solvent (#160) and lint-free paper	cleaning
[8] upper roller lower roller	Cleaning oil lint-free paper	cleaning
[9] paper guide	solvent (#160) and lint-free paper	cleaning
[10] transport assembly	moist cloth*1	cleaning
[11] re-pickup assembly reversing roller	alcohol and lint-free paper	cleaning
[12] re-pickup assembly pickup roller registration roller	alcohol and lint-free paper	cleaning
[13] - primary charging assembly - transfer/separation charging assembly - pre-transfer charging assembly	alcohol and lint-free paper	dry wiping; then, cleaning with lint-free paper moistened with alcohol
[14] dust-blocking glass	lint-free paper	cleaning
[15] developing assembly base	moist cloth*1	cleaning
[16] dust-collecting roller		dispose of toner from dust-collecting roller
[17] transfer guide (upper/lower)	alcohol and lint-free paper	dry wiping; then, cleaning with lint-free paper with alcohol

Item		Tool/solvent	Remarks
[18]	pre-transfer exposure lamp	alcohol and lint-free paper	dry wiping; then, cleaning with lint-free paper with alcohol
[19]	registration roller	alcohol and lint-free paper	cleaning
[20]	manual feeder tray pickup roller transport roller	alcohol and lint-free paper	cleaning
[21]	prints (pickup sensor) (transport sensor) (vertical path sensor)	blower brush or lint-free paper	- cleaning or blowing - if dirt persists, dry wiping with lint-free paper - do not use solvent (alcohol)
[22]	vertical path roller	alcohol and lint-free paper	cleaning

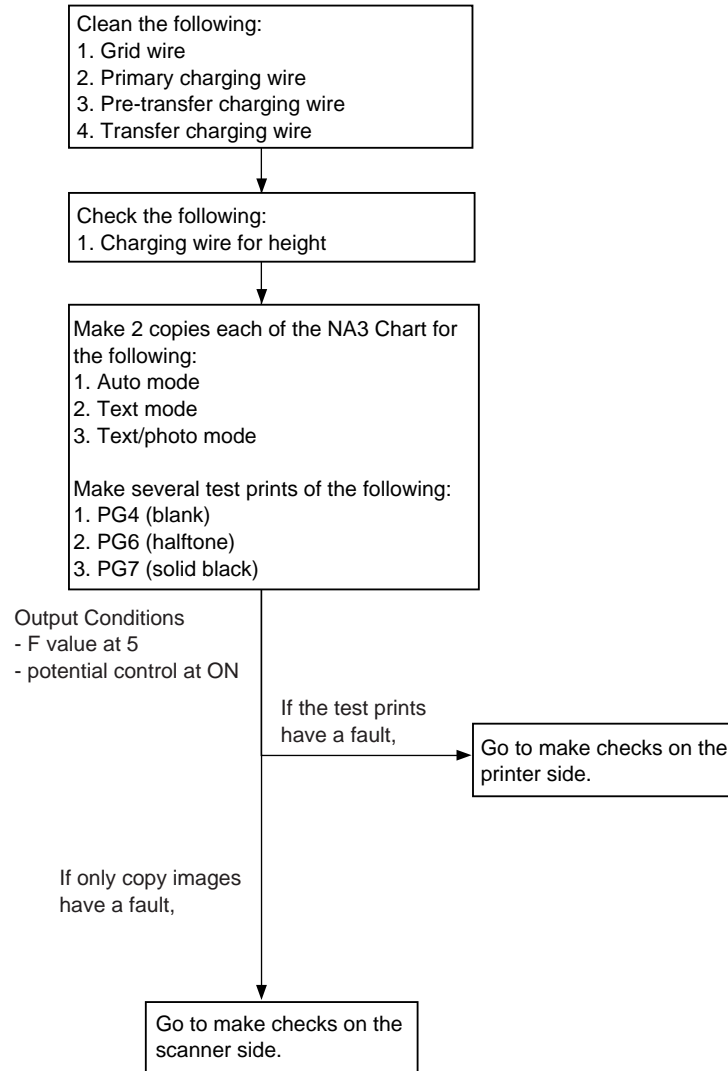
*1 Be sure that no droplets of water remain.

Chapter 2 Standards and Adjustments

2.1 Image Adjustment Basic Procedure

2.1.1 Making Pre-Checks

iR7105 / iR7095 / iR7086 /

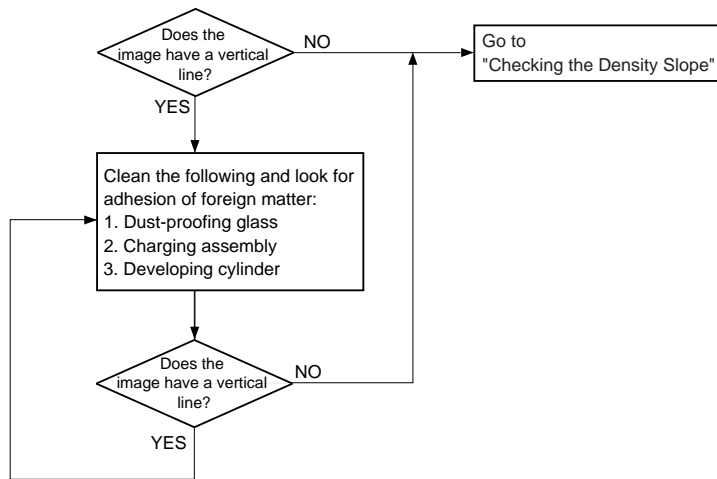


F-2-1

2.1.2 Making Checks on the Printer Side (Checking the Images)

iR7105 / iR7095 / iR7086 /

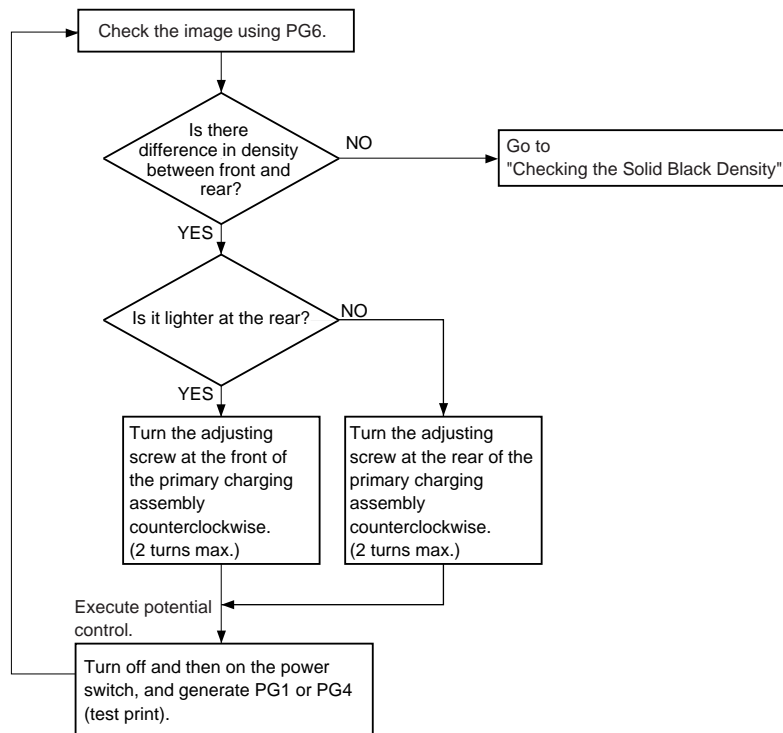
- Use PG4, PG6, PG7



F-2-2

2.1.3 Making Checks on the Printer Side (Checking the Density Slope)

iR7105 / iR7095 / iR7086 /



F-2-3



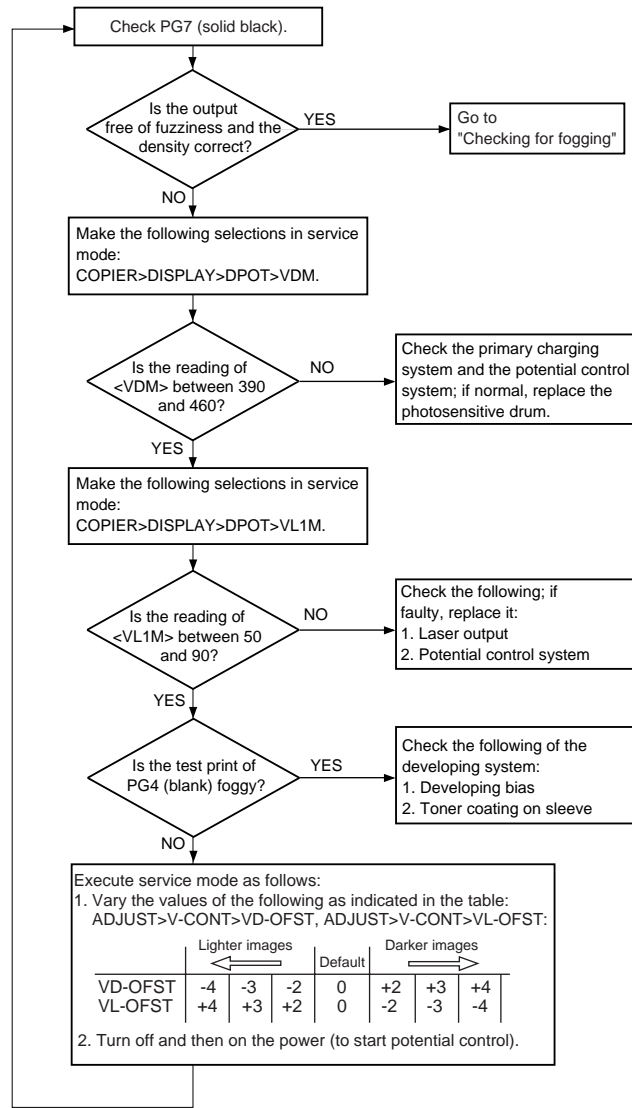
- 1) If the difference in density still exists after giving the adjusting screw 2 turns (one side; a full turn causes a change of about 0.7 mm), check the charging assembly, scanning lamp, and scanner for dirt.
- 2) When giving it a counterclockwise turn, be sure that the distance between wire and grid will not be 7.5 mm or less.

MEMO:

Moving the wire from the photosensitive drum causes the images to be darker; while moving it closer causes the images to be lighter.

2.1.4 Making Checks on the Printer Side (Checking the Solid Black Density)

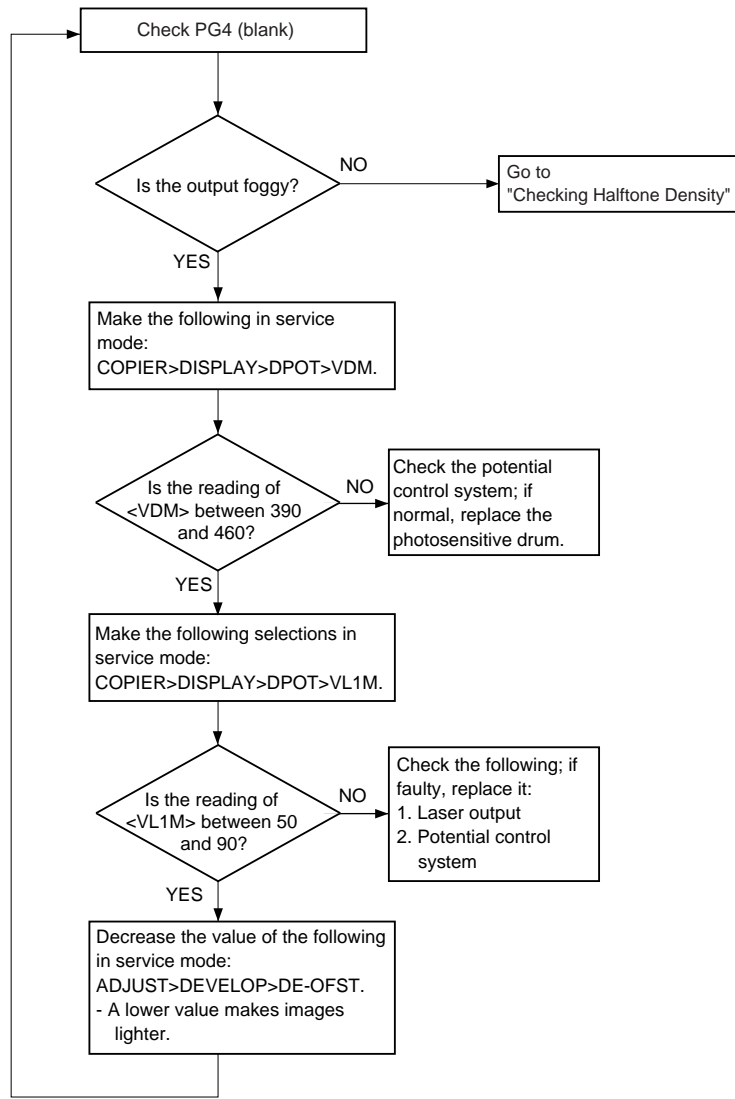
iR7105 / iR7095 / iR7086 /



F-2-4

2.1.5 Making Checks on the Printer Side (Checking for fogging)

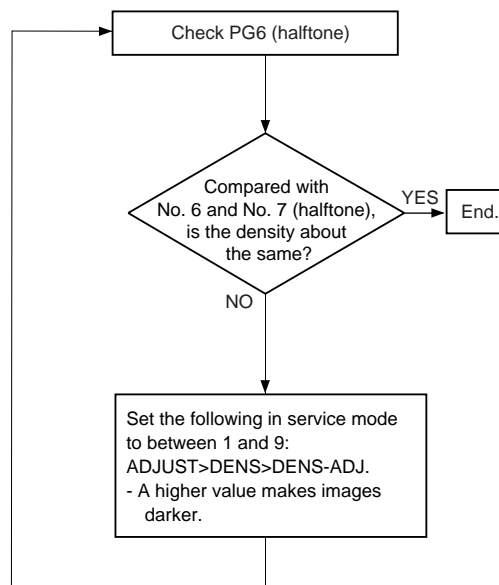
iR7105 / iR7095 / iR7086 /



F-2-5

2.1.6 Making Checks on the Printer Side (Checking Halftone Density)

iR7105 / iR7095 / iR7086 /

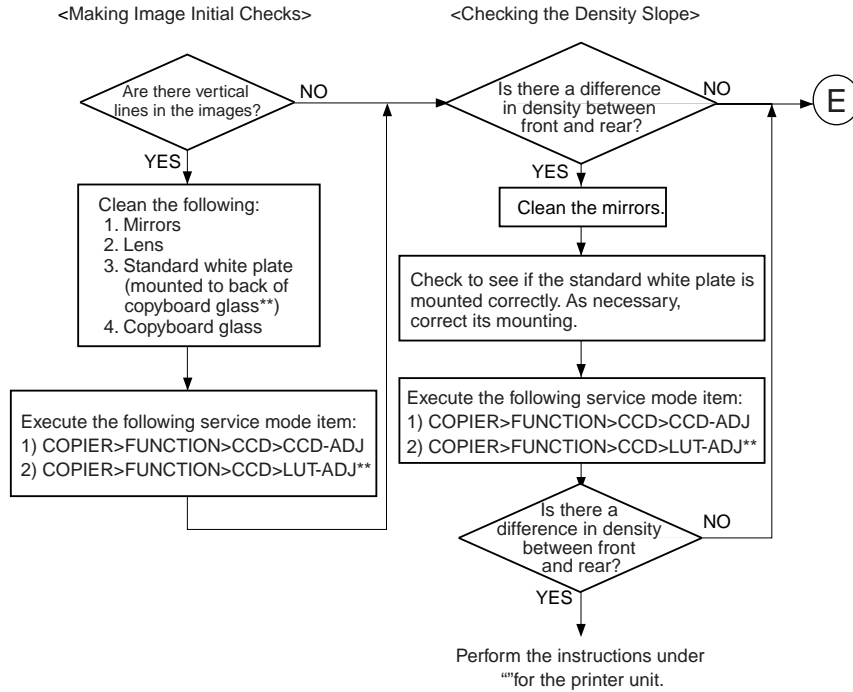


F-2-6

2.1.7 Making Checks on the Reader Unit

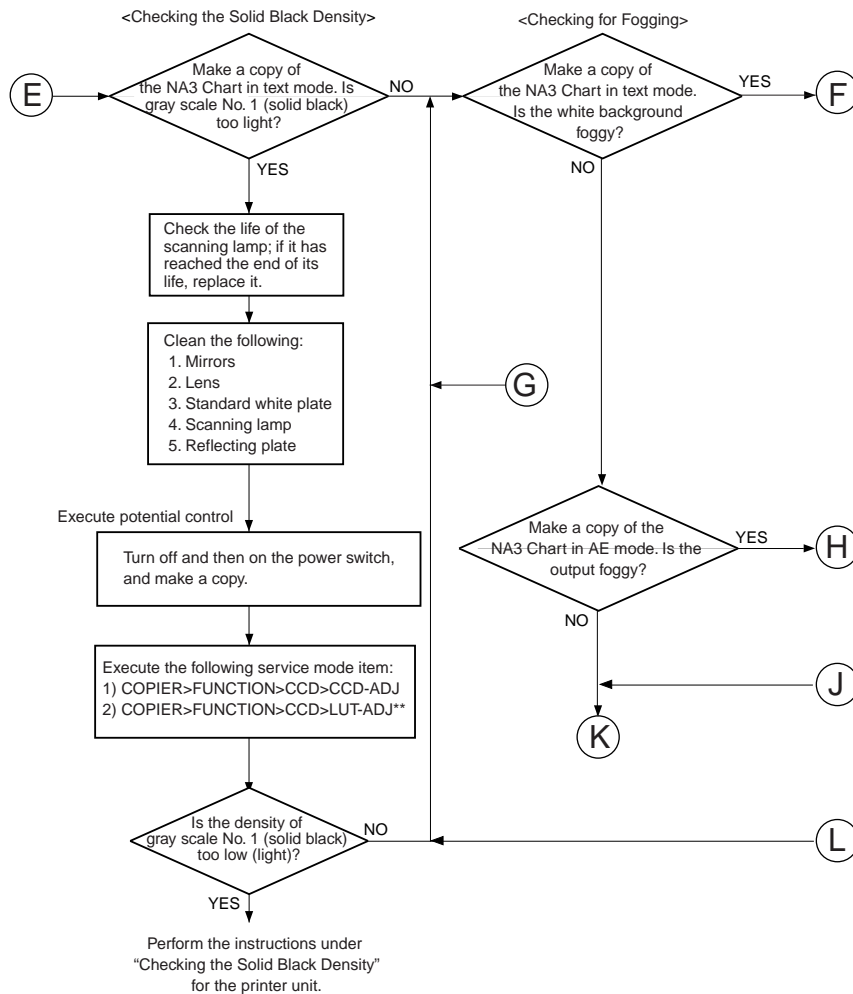
iR7105 / iR7095 / iR7086 /

*: model w/ DADF-Q1 (non-Japanese model: iR7105/7095; Japanese model: iR7105/7095/7086N)
 **: model w/ DADF-M1 (non-Japanese model: iR7086)



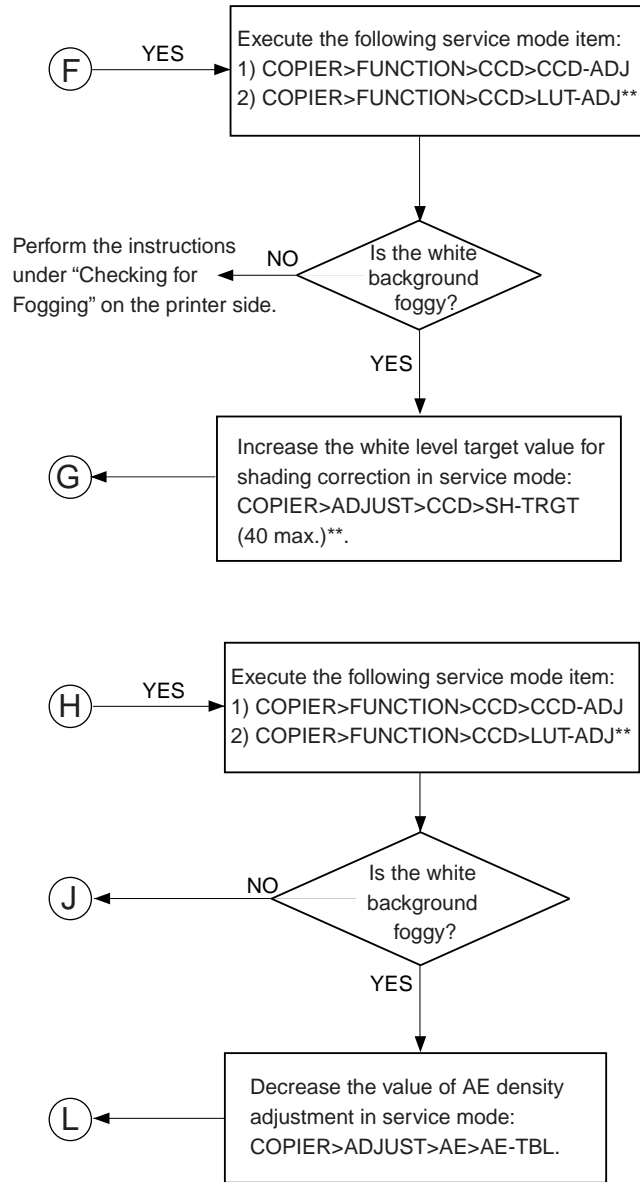
F-2-7

*: model w/ DADF-Q1 (non-Japanese model: iR7105/7095; Japanese model: iR7105/7095/7086N)
 **: model w/ DADF-M1 (non-Japanese model: iR7086)



F-2-8

*: model w/ DADF-Q1 (non-Japanese model: iR7105/7095; Japanese model: iR7105/7095/7086N)
**: model w/ DADF-M1 (non-Japanese model: iR7086)

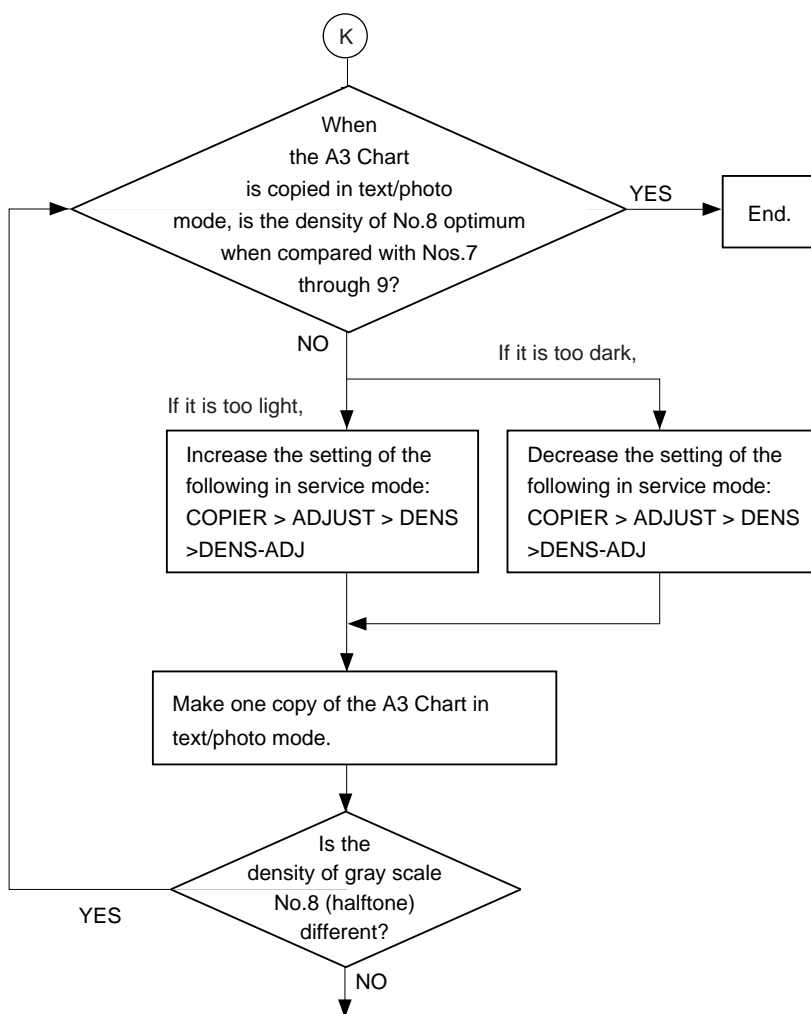


F-2-9

*: model w/ DADF-Q1 (non-Japanese model: iR7105/7095; Japanese model: iR7105/7095/7086N)

** : model w/ DADF-M1 (non-Japanese model: iR7086)

<Checking Halftone Density>



Go to "Checking the Solid Black Density" for the printer unit.

F-2-10

2.1.8 Potential Control System Conversion Table

iR7105 / iR7095 / iR7086 /

T-2-1

Control [V]	Primary [uA]	Developing bias [V]	Pre-transfer [uA]	Transfer [uA]	Separation [uA]
3.00	1600	0	0	0	0
3.05	1590	3	+2	-4	+5
3.10	1580	7	+4	-8	+10
3.15	1570	11	+6	-12	+15
3.20	1560	15	+8	-16	+20
3.25	1550	18	+10	-20	+25
3.30	1540	22	+12	-24	+30
3.35	1530	26	+14	-28	+35
3.40	1520	30	+15	-32	+40
3.45	1510	33	+17	-36	+45
3.50	1500	37	+19	-40	+50
3.55	1490	41	+21	-44	+55
3.60	1480	45	+23	-48	+60
3.65	1470	48	+25	-52	+65
3.70	1460	52	+27	-56	+70
3.75	1450	56	+29	-60	+75
3.80	1440	60	+30	-65	+80
3.85	1430	63	+32	-69	+85
3.90	1420	67	+34	-73	+90

Control [V]	Primary [uA]	Developing bias [V]	Pre-transfer [uA]	Transfer [uA]	Separation [uA]
3.95	1410	71	+36	-77	+95
4.00	1400	75	+38	-81	+100
4.05	1390	78	+40	-85	+105
4.10	1380	82	+42	-89	+110
4.15	1370	86	+44	-93	+115
4.20	1360	90	+45	-97	+120
4.25	1350	93	+47	-101	+125
4.30	1340	97	+49	-105	+130
4.35	1330	101	+51	-109	+135
4.40	1320	105	+53	-113	+140
4.45	1310	108	+55	-117	+145
4.50	1300	112	+57	-121	+150
4.55	1290	116	+59	-125	+155
4.60	1280	119	+60	-129	+160
4.65	1270	123	+62	-134	+165
4.70	1260	127	+64	-138	+170
4.75	1250	131	+66	-142	+175
4.80	1240	134	+68	-146	+180
4.85	1230	138	+70	-150	+185
4.90	1220	142	+72	-154	+190
4.95	1210	146	+74	-158	+195
5.00	1200	150	+75	-162	+200
5.05	1190	153	+77	-166	+205
5.10	1180	157	+79	-170	+210
5.15	1170	161	+81	-174	+215
5.20	1160	165	+83	-178	+220
5.25	1150	168	+85	-182	+225
5.30	1140	172	+87	-186	+230
5.35	1130	176	+89	-190	+235
5.40	1120	180	+90	-195	+240
5.45	1110	183	+92	-199	+245
5.50	1100	187	+94	-203	+250
5.55	1090	191	+96	-207	+255
5.60	1080	195	+98	-211	+260
5.65	1070	198	+100	-215	+265
5.70	1060	202	+102	-219	+270
5.75	1050	206	+104	-223	+275
5.80	1040	210	+105	-227	+280
5.85	1030	213	+107	-231	+285
5.90	1020	217	+109	-235	+290
5.95	1010	221	+111	-239	+295
6.00	1000	225	+113	-243	+300
6.05	990	228	+115	-247	+305
6.10	980	232	+117	-251	+310
6.15	970	236	+119	-255	+315
6.20	960	240	+120	-260	+320
6.25	950	243	+122	-264	+325
6.30	940	247	+124	-268	+330
6.35	930	251	+126	-272	+335
6.40	920	255	+128	-276	+340
6.45	910	258	+130	-280	+345
6.50	900	262	+132	-284	+350
6.55	890	266	+134	-288	+355
6.60	880	269	+135	-292	+360
6.65	870	273	+137	-29	+365
6.70	860	277	+139	-300	+370
6.75	850	281	+141	-304	+375
6.80	840	285	+143	-308	+380
6.85	830	288	+145	-312	+385
6.90	820	292	+147	-316	+390
6.95	810	296	+149	-320	+395
7.00	800	300	+150	-325	+400
7.05	790	303	+152	-329	+405
7.10	780	307	+154	-333	+410
7.15	770	311	+156	-337	+415

Control [V]	Primary [μ A]	Developing bias [V]	Pre-transfer [μ A]	Transfer [μ A]	Separation [μ A]
7.20	760	315	+158	-341	+420
7.25	750	318	+160	-345	+425
7.30	740	322	+162	-349	+430
7.35	730	326	+164	-353	+435
7.40	720	330	+165	-357	+440
7.45	710	333	+167	-361	+445
7.50	700	337	+169	-365	+450
7.55	690	341	+171	-369	+455
7.60	680	345	+173	-373	+460
7.65	670	348	+175	-377	+465
7.70	660	352	+177	-381	+470
7.75	650	356	+179	-385	+475
7.80	640	360	+180	-390	+480
7.85	630	363	+182	-394	+485
7.90	620	367	+184	-398	+490
7.95	610	371	+186	-402	+495
8.00	600	375	+188	-406	+500
8.05	590	378	+190	-410	+505
8.10	580	382	+192	-414	+510
8.15	570	386	+194	-418	+515
8.20	560	390	+195	-422	+520
8.25	550	393	+197	-426	+525
8.30	540	397	+199	-430	+530
8.35	530	401	+201	-434	+535
8.40	520	405	+203	-438	+540
8.45	510	408	+205	-442	+545
8.50	500	412	+207	-446	+550
8.55	490	416	+209	-450	+555
8.60	480	419	+210	-454	+560
8.65	470	423	+212	-459	+565
8.70	460	427	+214	-463	+570
8.75	450	431	+216	-467	+575
8.80	440	434	+218	-471	+580
8.85	430	438	+220	-475	+585
8.90	420	442	+222	-479	+590
8.95	410	446	+224	-483	+595
9.00	400	450	+225	-487	+600
9.05	390	453	+227	-491	+605
9.10	380	457	+229	-495	+610
9.15	370	461	+231	-499	+615
9.20	360	465	+233	-503	+620
9.25	350	468	+235	-507	+625
9.30	340	472	+237	-511	+630
9.35	330	476	+239	-515	+635
9.40	320	480	+240	-520	+640
9.45	310	483	+242	-524	+645
9.50	300	487	+244	-528	+650
9.55	290	491	+246	-532	+655
9.60	280	495	+248	-536	+660
9.65	270	498	+250	-540	+665
9.70	260	502	+252	-544	+670
9.75	250	506	+254	-548	+675
9.80	240	510	+255	-552	+680
9.85	230	513	+257	-556	+685
9.90	220	517	+259	-560	+690
9.95	210	521	+261	-564	+695
10.00	200	525	+263	-568	+700
10.05	190	528	+265	-572	+705
10.10	180	532	+267	-576	+710
10.15	170	536	+269	-580	+715
10.20	160	540	+270	-585	+720
10.25	150	543	+272	-589	+725
10.30	140	547	+274	-593	+730
10.35	130	551	+276	-597	+735
10.40	120	555	+278	-601	+740

Control [V]	Primary [uA]	Developing bias [V]	Pre-transfer [uA]	Transfer [uA]	Separation [uA]
10.45	110	558	+280	-605	+745
10.50	100	562	+282	-609	+750
10.55	90	566	+284	-613	+755
10.60	80	570	+285	-617	+760
10.65	70	573	+287	-621	+765
10.70	60	577	+289	-625	+770
10.75	50	581	+291	-629	+775
10.80	40	585	+293	-633	+780
10.85	30	588	+295	-637	+785
10.90	20	592	+297	-641	+790
10.95	10	596	+299	-645	+795
11.00	0	600	+300	-650	+800

2.2 Image Adjustments

2.2.1 Standards of Image Position

iR7105 / iR7095 / iR7086 /

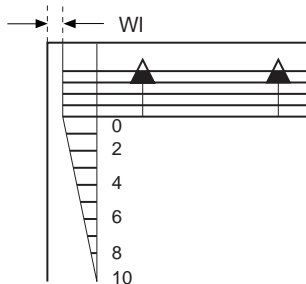
The image margin/non-image width of a print made in direct must be as follows:

[Image Leading Edge Margin]
Single-Sided/Double-Sided
Lf= 4.0 +1.5/-1.0 mm [4.0 +1.5/-1.0 mm]



F-2-11

[Left/Right Image Margin]
Single-Sided/Double-Sided
Wl= 2.5 +/-1.5 mm [2.5 +1.5/-1.0 mm]



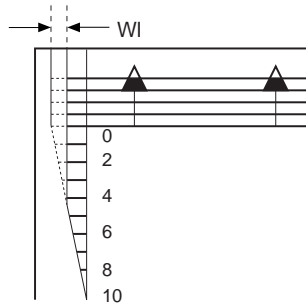
F-2-12

[Leading Edge Non-Image Width]
Single-Sided
Lf= 4.0 +1.5/-1.0 mm [4.0 +1.8/-1.4 mm]
Double-Sided
Lf= 4.0 +1.5/-1.0 mm [4.0 +/-1.8 mm]



F-2-13

[Left/Right Non-Image Width]
Single-Sided/Double-Sided
Wl= 2.5 +/-1.5 mm [2.5 +1.5/-1.8 mm]



F-2-14

The information in brackets represents standards for the integrated configuration.

2.2.2 Checking the Image Position

iR7105 / iR7095 / iR7086 /

Make prints using the following as the source of paper (10 prints each), and check to see that the image margin and the non-image width are as indicated:

- Each cassette
- Front deck (left, right)
- Manual feed tray
- Duplex feeding unit
- Side paper deck

If not as indicated, adjust the image position in the following order:
1. Adjusting the left/right image margin (registration)
2. Adjusting the image leading edge margin (registration)
3. Adjusting the left/right non-image width (CCD read start position)

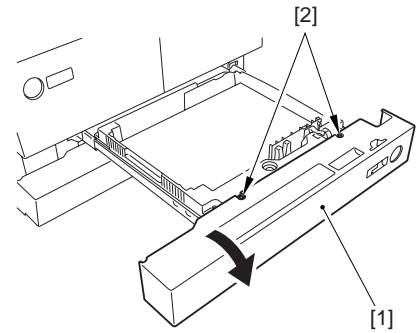
4. Leading edge non-image width (scanner image leading edge position)

2.2.3 Adjusting Side Registration

iR7105 / iR7095 / iR7086 /

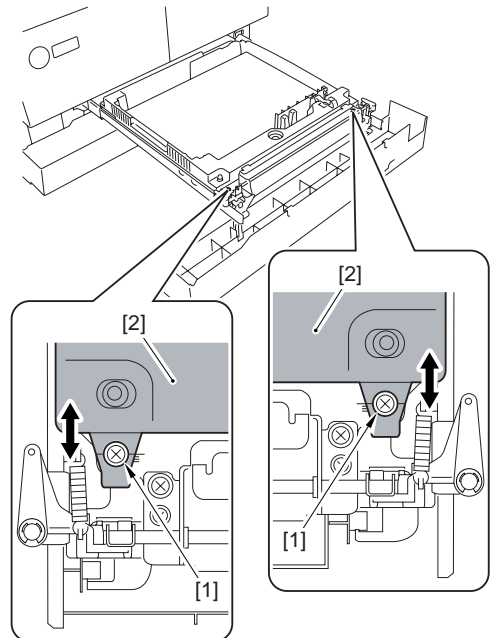
<Cassette 3/4>

- 1) Press the release button of cassette 3/4, and slide out the cassette.
- 2) Shift down the cassette front cover [1] in the direction of the arrow.
- 2 screws [2]



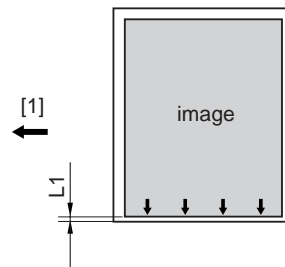
F-2-15

- 3) Loosen the 2 fixing screws [1] found on the right/left of the cassette.
- 4) Move the cassette case [2] to the front or the rear to make adjustments.
- move it to the rear to decrease the horizontal registration (left margin).
- move it to the front to increase the horizontal registration (left margin).



F-2-16

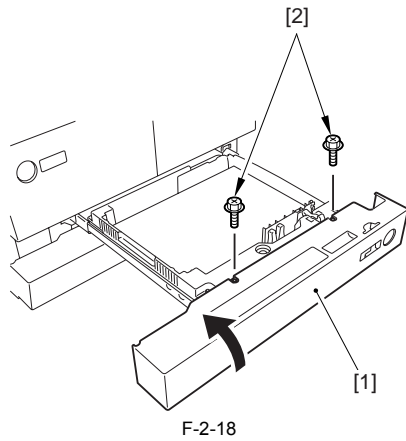
- 5) Check to make sure that the horizontal registration value (L; left margin) of the image made on paper from cassette 3/4 is 2.5 +/-1.5 mm.



F-2-17

[1] Paper movement

- 6) When done, tighten the 2 fixing screws loosened in step 3).
- 7) Shift up the cassette front cover [1] in the direction of the arrow, and secure it in place using 2 screws [2].



F-2-18

- 8) Put cassette 3/4 back inside the machine.
- 9) When done, execute the following service mode items:

Cassette 3

COPIER > FUNCTION > CST > C3-STMTR
 COPIER > FUNCTION > CST > C3-A4R

Register the paper width basic value for cassette 3.

9-1) Place STMTR paper in the cassette 3, and move the side guide plate to suit the STMTR width.

9-2) Select C3-STMTR in service mode to highlight, and press the OK key so that adjustment will be executed and the value will be registered automatically.

9-3) Likewise, repeat steps 9.1) and 9.2) for A4R.

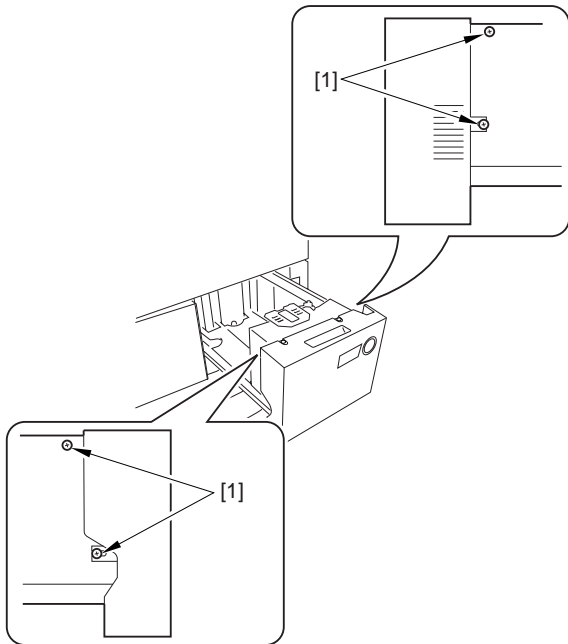
Cassette 4

COPIER > FUNCTION > CST > C4-STMTR
 COPIER > FUNCTION > CST > C4-A4R

Perform the work you performed for cassette 3.

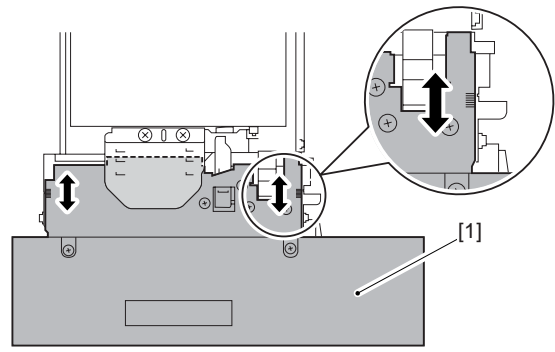
<Front Deck Left/Right>

- 1) Press the release button of the front deck (left/right), and slide out the deck.
- 2) Loosen the 4 screws [1].



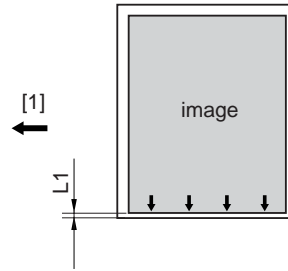
F-2-19

- 3) Move the cassette guide assembly (front) [1] to the front or the rear to make adjustments.
 - move the guide plate to the rear to decrease the horizontal registration (left margin).
 - move the guide plate to the front to increase the horizontal registration (left margin).



F-2-20

- 4) Check to see that the horizontal registration (L; left/right margin) of the images made on paper from the front deck (left/right) is 2.5 +/-1.5 mm.



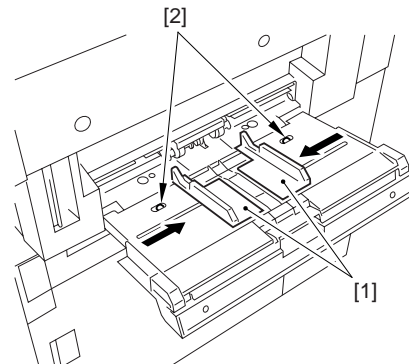
F-2-21

[1] Paper movement

- 5) Tighten the 4 screws you loosened in step 2).
- 6) Put the front deck (left/right) back in place.

<Manual Feeder Tray>

- 1) Move the side guide plate [1] to the center, and loosen the 2 manual feeder tray mounting screws [2]; then, adjust the position of the manual feeder tray.

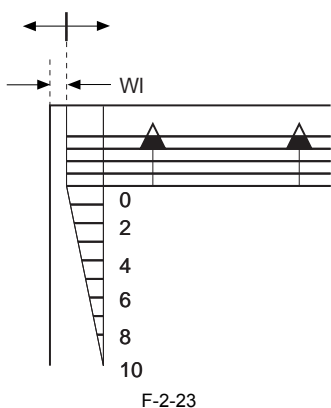


F-2-22

<Duplexing Transport Unit>

- 1) Make the following selections in service mode: COPIER > ADJUST > FEED-ADJ > ADJ-REFER so that the image margin on the 2nd side will be as indicated.
 - if the margin is too large, decrease the setting of ADJ-REFER (a change of 10 will decrease the margin by 1 mm).
 - if the margin is too small, increase the setting of DJ-REFER (a change of 10 will increase the margin by 1 mm).

W1=2.5 +/-2.0 mm



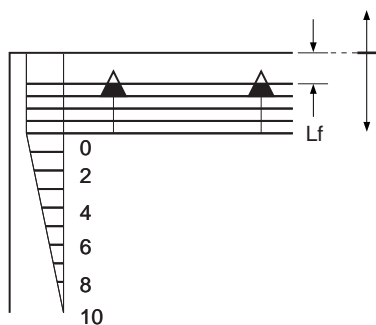
F-2-23

2.2.4 Adjusting the Image Leading Edge Margin

iR7105 / iR7095 / iR7086 /

- 1) Make the following selections in service mode so that the image margin will be as indicated: COPIER > ADJUST > FEED-ADJ > REGIST.
 - if the margin is too large, increase the setting of REGIST (a change of 10 will decrease the margin by 1 mm).
 - if the margin is too small, decrease the setting of REGIST (a change of 10 will increase the margin by 1 mm).

$$Lf = 4.0 + 1.5 \cdot (-1.0)$$

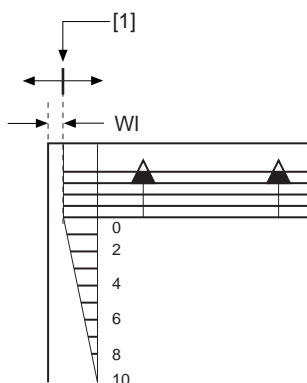


F-2-24

2.2.5 Adjusting the Left/Right Non-Image Width

iR7105 / iR7095 / iR7086 /

- 1) Adjust the non-image width in service mode so that it is as indicated: COPIER > ADJUST > ADJ-XY > ADJ-Y.
 - [1] Edge of image
 - Decreasing the ADJ-Y setting: A decrease by '10' will decrease the margin by 1 mm.
 - Increasing the ADJ-Y setting: An increase by '10' will increase the non-image width by 1 mm.



F-2-25

2.2.6 Adjusting the Leading Edge Non-Image Width

iR7105 / iR7095 / iR7086 /

- 1) Adjust the non-image width in service mode so that it is as indicated: COPIER > ADJUST > ADJ-XY > ADJ-X.
 - [1] Image leading edge
 - Decreasing the ADJ-X setting: A decrease by '10' will decrease the width by 1 mm.

- Increasing the ADJ-X setting: An increase by '10' will increase the width by 1 mm.



F-2-26

2.3 Scanning System

2.3.1 When Replacing Components of the Scanning System

iR7105 / iR7095 /

<Components>

CCD unit, copyboard glass, scanning lamp, standard white plate, inverter PCB

<Procedure>

Execute the following service mode item:

- 1) COPIER > FUNCTION > CCD > CCD-ADJ (shading correction based on the standard white plate)

2.3.2 When Replacing Components of the Scanning System

iR7086

<Components>

CCD unit, copyboard glass, stream reading glass, scanning lamp, inverter PCB

<Procedure>

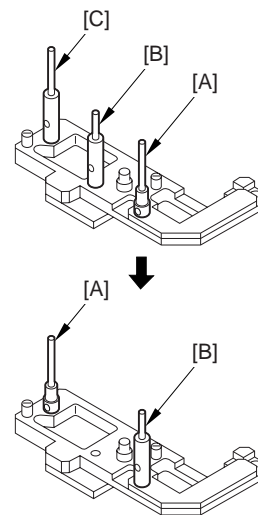
Execute the following service mode items:

- 1) COPIER > FUNCTION > CCD > CCD-ADJ (shading correction based on the standard white plate)
- 2) COPIER > FUNCTION > CCD > DF-WLVL1 (ADF white level; for copyboard mode)
- 3) COPIER > FUNCTION > CCD > DF-WLVL2 (ADF white level; for stream reading mode)

2.3.3 Adjusting the Position of the No. 1/No. 2 Mirror Base

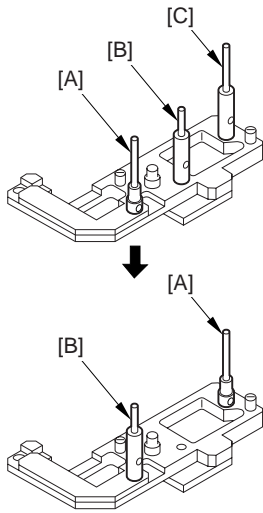
iR7105 / iR7095 / iR7086 /

- 1) Arrange the mirror positioning tool (FY9-3009-040) so that it is ready for use in the machine (by changing the pin position; REAR).



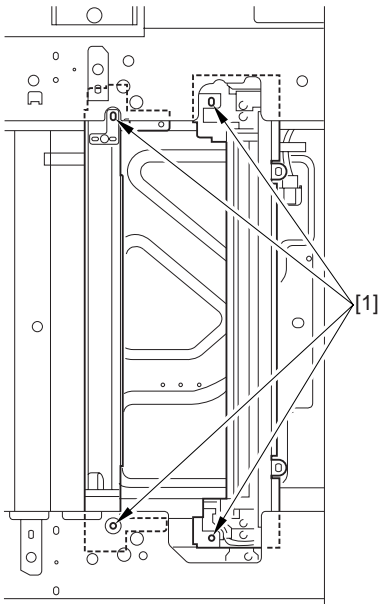
F-2-27

- 2) Arrange the mirror positioning tool so that it is ready for use in the machine (by changing the pin position; FRONT).

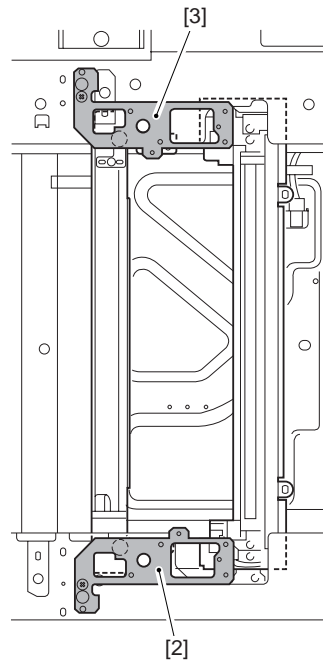


F-2-28

3) Fit the pins of the mirror positioning tool (front [2]; rear [3]) into the appropriate holes of the No. 1/No. 2 mirror base.



F-2-29



F-2-30

- 4) Secure the end of the cable that has temporarily been fixed in place on the hook of the reader unit frame.
- 5) Fully tighten the screws on the cable fixing plate both at the front and the rear.
- 6) Detach the mirror positioning tool (FRONT, REAR).
- 7) Put the detached parts back on by reversing the foregoing steps.

2.4 Laser Exposure System

2.4.1 When Replacing the Laser Scanner Unit

iR7105 / iR7095 / iR7086

There is no special work in conjunction with the replacement of the laser scanner unit.

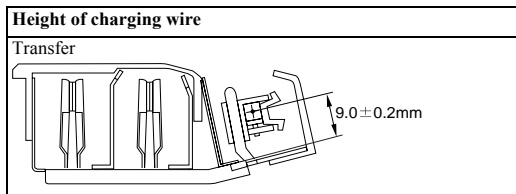
2.5 Image Formation System

2.5.1 Adjusting the Height of the Charging Wire

iR7105 / iR7095 / iR7086 /

T-2-2

Height of charging wire	
Primary	
Pre-transfer	
Separation	

**MEMO:**

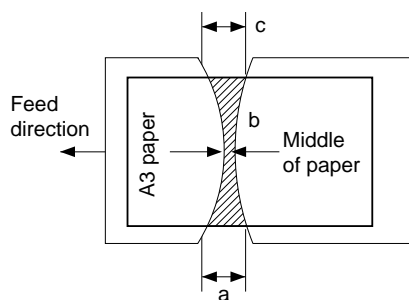
The height (position) of the primary and transfer charging wires may be adjusted by turning the screw found at the rear of the charging assembly. A full turn of the screw changes the position of the charging wire by about 0.7 mm.

2.6 Fixing System

2.6.1 Adjusting the Lower Roller Pressure (nip)

iR7105 / iR7095 / iR7086 /

The nip width must be as indicated in figure; if not, adjust it using the pressure adjusting nut.



F-2-31



a and c are points 10 mm from both edges of paper.

T-2-3

Dimension	Measure with upper and lower rollers fully heated
b	200 V: 9.0 -/+ 0.5 mm, 208/230 V: 10.0 -/+ 0.5 mm
a-c	0.5 mm or less

a. Generating Output for Nip Width Measurement

Wait for 15 min after the copier ends its warm-up period; make 20 A4 copies, and measure the nip.

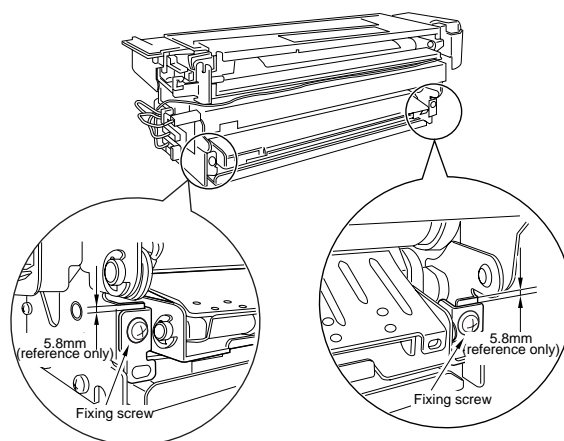
- Place A3 copy paper in the manual feed tray.
- Make the following selections in service mode to generate output:
COPIER > FUNCTION > FIXING > NIP-CHK.

The A3 paper will be picked up, and a copy like the one shown in figure will be delivered.

2.6.2 Points to Note When Mounting the Fixing Heater

iR7105 / iR7095 / iR7086 /

- Do not touch the heater surface.
 - For both heaters, mount so that the side with the longer heater harness is toward the front.
 - Viewing from the front of the fixing assembly, mount the main heater on the right (for 200V model, 1150 W; for 208V model, 1220 W; for 230V model, 1185 W) and the sub heater on the left (for 200V model, 565 W; for 208V model, 600 W; for 230V model, 645 W).
 - Viewing from the rear, connect the right side of the faston of the heater at the rear to the main heater, and connect the top side to the sub heater.
- Height of the Fixing Inlet Guide



F-2-32



Do not loosen the fixing screw on the inlet guide, as you will have to adjust the position of the inlet guide if you remove the inlet guide base. If you must loosen it, be sure to adjust the position of the inlet guide afterward by referring to the index on the fixing assembly.

2.7 Electrical Components

2.7.1 After Replacing the Hard Disk

iR7105 / iR7095 / iR7086 /

1) Formatting the HDD

Start up the machine in safe mode (i.e., turn on the main power while holding down the 2 and 8 keys).

Using the HD formatting function of the SST, execute full partition formatting. (For details, see the chapter on upgrading.)

2) Downloading the System Software

Using the SST, download the following: System, LANG, RUI, PS-FONT, OCR dictionary, SSL encryption key, SSL CA certificate, MEAP content.

3) Execute the following service mode item:

COPIER > FUNCTION > CLEAR > CA-KEY (Level 2)

4) Turn off and then on the power.

MEMO:

Execution of the following may delete the keys/certificates used for encrypted communications and the CA certificates used for authentication of external server certificates:

- replacement/formatting of the HDD
 - replacement of the main controller PCB/initialization of the RAM
- If a key/certificate for encrypted communications has been deleted, the control panel screen will indicate a message to the effect that the key has been corrupted; however, the key/certificate/CA certificate installed at time of shipment from the factory may be brought back by executing the following: COPIER>FUNCTION>CLEAR>CA-KEY. If doing so has failed, use the SST to install the key/certificate/CA certificate, and execute CA-KEY once again.



Points to Note When Executing Service Mode Item CA-KEY

If the user has generated/added a key/certificate/CA certificate on his/her own, executing CA-KEY will also delete these files. Inform the user of this, and ask him/her to re-install them as necessary after the execution of CA-KEY.



Points to Note About a HDD to Which System Software Has Been Installed

If you must use a HDD to which the system software for a different machine (thus a different serial number) has been installed, be sure to format it after mounting it. Otherwise, the machine operation cannot be guaranteed.

2.7.2 After Replacing the Main Controller

iR7105 / iR7095 / iR7086 /



Before Starting the Work (backing up the data)

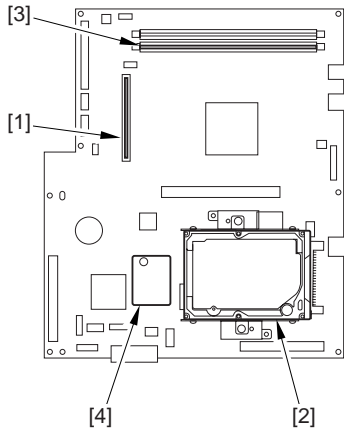
If possible, perform the following:

- Using the SST, download the data stored in the RAM of the main controller.

- Print out the user mode/service mode data.

- If you are replacing the main controller PCB, be sure to physically transfer the following from the existing to the new PCB:

- [1] BootROM
- [2] HDD
- [3] image memory (DDR-SDRAM)
- [4] counter memory PCB



F-2-33

MEMO: Image memory (DDR-SDRAM)

The machine is equipped with the following image memory:
 capacity: 1 GB
 quantity: 1 pc.
 Use one of the 2 slots. There is no optional memory for expansion.

- 1) Turn on the power. If there is a backup of the SRAM data (i.e., if downloaded using the SST), upload it.
- 2) Execute the following service mode item:
 COPIER > FUNCTION > CLEAR > CA-KEY (Level 2)
- 3) Turn off and then on the power.

MEMO:

Execution of the following may delete the keys/certificates used for encrypted communications and the CA certificates used for authentication of external server certificates:

- replacement/formatting of the HDD
 - replacement of the main controller PCB/initialization of the RAM
- If a key/certificate for encrypted communications has been deleted, the control panel screen will indicate a message to the effect that the key has been corrupted; however, the key/certificate/CA certificate installed at time of shipment from the factory may be brought back by executing the following: COPIER>FUNCTION>CLEAR>CA-KEY. If doing so has failed, use the SST to install the key/certificate/CA certificate, and execute CA-KEY once again.

⚠ Points to Note When Executing Service Mode Item CA-KEY
 If the user has generated/added a key/certificate/CA certificate on his/her own, executing CA-KEY will also delete these files. Inform the user of this, and ask him/her to re-install them as necessary after the execution of CA-KEY.

⚠ Points to Note When Fitting the Security Expansion Board
 Whenever possible, do not replace the main controller PCB as part of the troubleshooting work conducted in relation to the installation of the security expansion board (option). The machine checks the compatibility between the HDD and the main controller PCB when a security expansion board is installed. Replacement with a new board will cause the formatting of the HDD to start automatically, thus deleting all user data.

T-2-4

Data item deleted	Backup possibility
address data registered in the address book	Yes
settings made in user mode	Yes *1
settings stored in memory	Yes
license file for MEAP application	Yes
user authentication information stored using SDL (simple device login)	Yes
data stored using MEAP application	Yes *2
mode memory stored using copy function or Box function	No
data in Box	Yes *3

Data item deleted	Backup possibility
read mode settings stored using transmission function	No
files yet to be read (those selected for timer transmission or reserved for transmission)	No
forms stored for image synthesis	No
MEAP application	No
password for MEAP SMS (service management services); returns to factory default	No
job history information	No
user authentication information stored in relation to SSO (local device authentication)	Yes
key pairs and server certificates stored in conjunction with system control settings	No

- *1: limited to those settings that may be exported using a remote UI or transmitted as part of machine information.
- *2: limited to when the MEAP application in question offers a backup function.
- *3: limited to data within the User Box.

When Replacing the Main Controller PCB

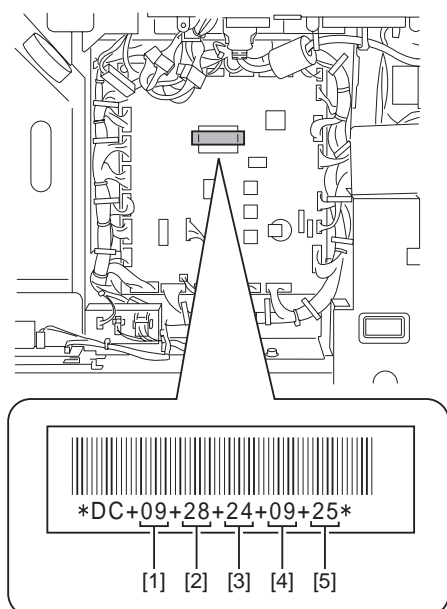
- Explain to the user that all user data will be deleted.
- As necessary, ask the user to make a backup of those data items that permit making of a backup.
- Explain to the user that the following data items do not permit making of a backup, and require remedial action:
 <Suggestions for Remedial Action>
 - for mode settings stored using the copy/Box function, ask the user to newly enter the settings.
 - for read mode settings stored using the transmission function, ask the user to newly enter the settings.
 - for files that are yet to be transmitted (i.e., files for selected timer transmission or reserved for transmission), ask the user to newly transmit them.
 - for registered forms used in image synthesis, ask the user to newly enter them.
 - for MEAP applications, ask the user to newly install them.
 - for MEAP SMS (service management services) passwords, access the following: http://<iR IP address>:8000/SMS. (Use the factory password "MeapSmsLogin" (case-sensitive) to log in and change the password.
 - for job histories, if a record is needed, ask the user to store away the history using a remote UI. (However, there is no way of returning the history to the HDD.)
 - for key pairs and server certificates, if the user has added any, ask for re-installation.

2.7.3 After Replacing the DC Controller PCB

iR7105 / iR7095 / iR7086 /

⚠ Before Starting the Work (backing up the data)
 If possible, perform the following:
 - Using the SST, download the data stored in the RAM of the DC controller.
 - Print out the user mode/service mode data.

- 1) Turn on the power, and execute the following service mode:
 COPIER > FUNCTION > CLEAR > DC-CON
- 2) If the data has been successfully downloaded using the SST as instructed in step 1) above, upload it.
- 3) Using the following service mode item, specify the order of connecting delivery accessories:
 COPIER > OPTION > ACCPSD-D > ACC1 to ACC8
- 4) Set the values indicated on the service mode for their respective service mode items.
- 5) Set '0' for the following service mode item:
 COPIER > OPTION > BODY > FIX-EXP (fixing smear repression mode)
- 6) Execute the following service mode item:
 COPIER > FUNCTION > MISC-P > CL-ADJ
 COPIER > FUNCTION > SENS-ADJ > OP-SENS (Level 2)
- 7) Enter the values indicated on the label attached to the new DC controller PCB for their respective service mode items:



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- [1] COPIER > ADJUST > DEVELOP > D-HV-DE
 - [2] COPIER > ADJUST > HV-TR > D-HV-TR
 - [3] COPIER > ADJUST > HV-TR > D-PRE-TR
 - [4] COPIER > ADJUST > HV-SP > D-HV-SP
 - [5] COPIER > ADJUST > DEVELOP > OFFSETDA
- 8) Turn off and then on the power.

2.7.4 After Replacing the Reader Controller PCB

iR7105 / iR7095 /

⚠ Before Starting the Work (backing up the data)

If possible, perform the following:

- Using the SST, download the data stored in the RAM of the reader controller PCB.
- Print out the user mode/service mode data.

- 1) Turn on the power, and execute the following service mode item:
COPIER > FUNCTION > CLEAR > R-CON
- 2) If the data has successfully been downloaded using the SST before the replacement, upload the data.
- 3) Set the values indicated on the service label for their respective service mode items.

COPIER > ADJUST > ADJ-XY > ADJ-X (adjustment of image read start position in sub scanning direction; image lead edge)

COPIER > ADJUST > ADJ-XY > ADJ-Y (adjustment of image read start position in main scanning direction; horizontal registration)

COPIER > ADJUST > ADJ-XY > ADJ-S (adjustment of shading correction data measurement position)

COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (adjustment of main scanning position for ADF stream reading)

COPIER > ADJUST > ADJ-XY > ADJ-Y-FX (adjustment of main scanning position for ADF fixed reading)

COPIER > ADJUST > ADJ-XY > ADJ-X-MG (fine-adjustment of magnification in sub scanning direction for copyboard reading)

4) Execute the following service mode item:

COPIER > FUNCTION > CCD > CCD-ADJ (shading correction based on standard white plate)

5) Turn off and then on the power.

2.7.5 After Replacing the Reader Controller PCB

iR7086

⚠ Before Starting the Work (backing up the data)

If possible, perform the following:

- Using the SST, download the data stored in the RAM of the reader controller PCB.
- Print out the user mode/service mode data.

- 1) Turn on the power, and execute the following service mode item:
COPIER > FUNCTION > CLEAR > R-CON

2) If the data has successfully been downloaded using the SST before the replacement, upload the data.

3) Set the values indicated on the service label for their respective service mode items.

COPIER > ADJUST > ADJ-XY > ADJ-X (adjustment of image read start position in sub scanning direction; image lead edge)

COPIER > ADJUST > ADJ-XY > ADJ-Y (adjustment of image read start position in main scanning direction; horizontal registration)

COPIER > ADJUST > ADJ-XY > ADJ-S (adjustment of shading correction data measurement position)

COPIER > ADJUST > ADJ-XY > ADJ-Y-DF (adjustment of main scanning position for ADF stream reading)

COPIER > ADJUST > ADJ-XY > STRD-POS (adjustment of CCD read position for ADF stream reading)

COPIER > ADJUST > ADJ-XY > ADJ-X-MG (fine-adjustment of magnification in sub scanning direction for copyboard reading)

FEEDER > ADJUST > DOCST (adjustment of original stop position for ADF pickup)

FEEDER > ADJUST > LA-SPEED (adjustment of original transport speed for ADF stream reading)

4) Execute the following service mode items:

COPIER > FUNCTION > CCD > CCD-ADJ (shading correction based on standard white plate)

COPIER > FUNCTION > CCD > DF-WLVL1 (ADF white level adjustment; for copyboard reading)

COPIER > FUNCTION > CCD > DF-WLVL2 (ADF white level adjustment; for stream reading)

5) Turn off and then on the power.

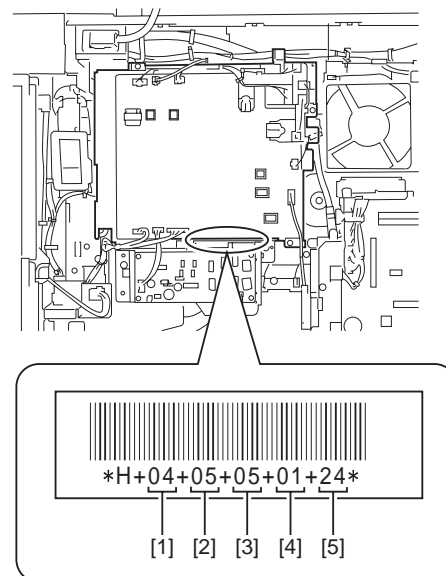
MEMO:

In the case of the model with the DADF-M1 (outside Japan: iR7086), the ADF-related service mode data is stored in the RAM of the reader controller. As such, if you have initialized the RAM on the reader controller PCB or replaced the PCB, it is important that you newly enter service mode settings and execute appropriate adjustment items.

2.7.6 After Replacing the HV-DC PCB

iR7105 / iR7095 / iR7086 /

- 1) Set the values (5 types) indicated on the label attached to the new HV-DC PCB for the respective service mode items:



F-2-35

- [1] COPIER > ADJUST > HV-TR > H-PRE-TR

[2] COPIER > ADJUST > HV-TR > HVT-TR

[3] COPIER > ADJUST > HV-SP > HVT-SP

[4] COPIER > ADJUST > DEVELOP > HVT-DE

[5] COPIER > ADJUST > DEVELOP > OFFSETAC

2) Turn off and then on the power.

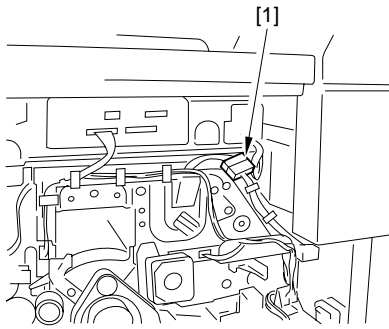
2.7.7 When Replacing the Potential Sensor/Potential Control PCB

iR7105 / iR7095 / iR7086 /

⚠

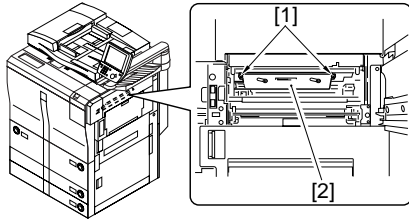
The machine remains powered after the main power switch is turned off as long as the power plug is connected to the power outlet. Be sure to disconnect the power plug from the power outlet.

- 1) Turn off the power.
- 2) Remove the developing assembly, and slide out the process unit.
- 3) Disconnect the connector [1] of the potential sensor.



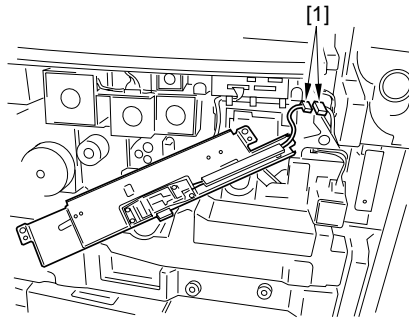
F-2-36

4) Remove the 2 screws [1], and detach the potential sensor support plate [2].



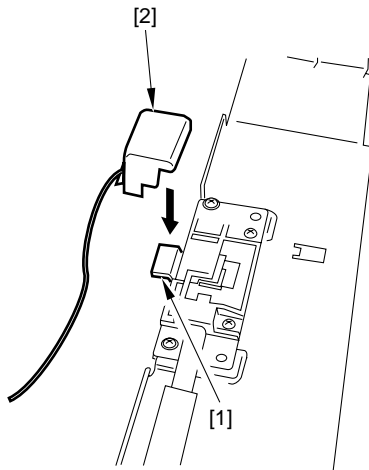
F-2-37

5) Put back the developing assembly and the process unit.
6) Connect the connector [1] of the potential sensor.



F-2-38

7) Fit the potential checker electrode (FY9-3041) [2] to the potential sensor [1].

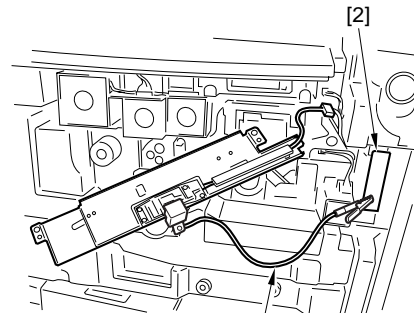


F-2-39

⚠ When fitting the checker electrode to the potential sensor, make sure that the magnet of the checker electrode will not come into contact with the potential sensor cover.

8) Connect the cable [1] of the potential sensor checker electrode to the frame assembly (GND) [2] of the machine.

⚠ Never bring the clip into contact with the sensor cover. Be sure to fit it fully away from the sensor window.



F-2-40

9) Fit the door switch actuator to the door switch assembly [1] and the laser shutter assembly [2].
10) Turn on the power.
11) Execute the following service mode items:
COPIER > FUNCTION > DPC > OFST
12) Record the value of <OFST> on the service sheet.
13) Turn off the main power switch.
14) Detach the potential sensor checker electrode.
15) Put back the potential sensor support plate.
16) Turn on the power.

2.7.8 Checking the Surface Potential Control System

iR7105 / iR7095 / iR7086 /

a. Outline

If image faults occur, it is important to find out whether the cause is in the latent static image formation block (including the photosensitive drum and the potential control system) or it is in the developing/transfer system, requiring a check on the surface potential. (You can check the surface potential in service mode.)

b. Disabling the Auto Control Mechanisms

As a way of checking the mechanisms used for corona current control, lamp intensity control, or developing bias control, you may disable the auto control mechanisms (hereafter, non-auto control mode).

As a first-aid measure when a fault exists in the auto control mechanism, you may use non-auto control mode; keep in mind that all outputs in non-auto control mode are fixed to standard values.

1. Procedure

- 1) Make the following selections in service mode, and enter '0':
COPIER > OPTION > BODY > PO-CNT.
- 2) Press the Reset key twice.



In non-auto control mode, all settings used for coronal current control, intensity control, developing bias control will be set to standard settings stored in ROM.

2. Making Use of Non-Auto Control Mode

If a fault occurs in images, use the mode to find out if the cause is on the input side or output side of the microprocessor on the DC controller PCB.

In non-auto control mode, if the fault is corrected somewhat, you may suspect the potential measurement unit or the DC controller PCB.

c. Zero-Level Check

One way of finding out if the surface potential control circuit is good or not is to use a zero-level check.

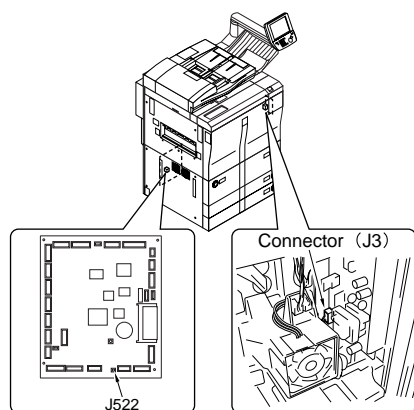
MEMO:

A zero-level check is made to see if the microprocessor registers 0 V when the surface potential of the drum is 0 V.

Using the result of the check, you can find out if the microprocessor on the DC controller PCB or the measurement unit is good or not; a zero-level check may take either of the following two methods:

1. Method 1

- 1) Turn off the power switch.
- 2) Short the connectors J522-1 and -2 on the DC controller PCB with a jumper wire, and disconnect the connector J3 of the potential control PCB.



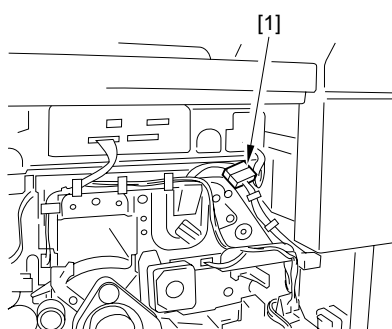
F-2-41

- 3) Fit the door switch actuator into the door switch assembly, and turn on the power switch.
- 4) Make the following selections in service mode, and check to see if the reading is between 0 and 30 during initial rotation: COPIER> DISPLAY> DPOT> DPOT-K.

MEMO:

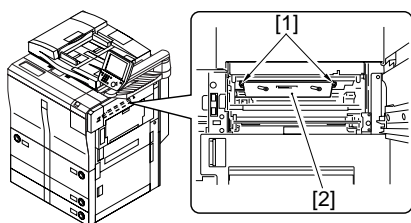
If the reading is not as indicated, you may suspect a fault in the DC controller PCB.

- 5) Turn off the power switch, and detach the door switch actuator.
- 6) Detach the jumper wire from the DC controller PCB.
- 7) Connect the connector to J3 of the potential control PCB.
- 8) Turn on the power switch.
2. Method 2
 - 1) Turn off the power switch.
 - 2) Remove the developing assembly, and slide out the process unit.
 - 3) Disconnect the connector [1] of the potential sensor.



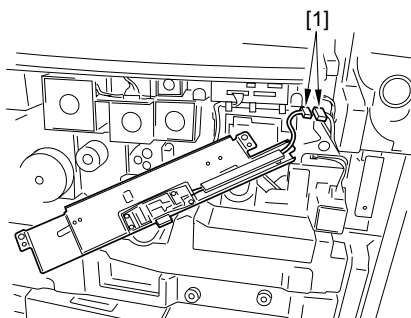
F-2-42

- 4) Remove the 2 screws [1], and detach the potential sensor support plate [2].



F-2-43

- 5) Put back the developing assembly and the process unit.
- 6) Connect the connector [1] of the potential sensor.



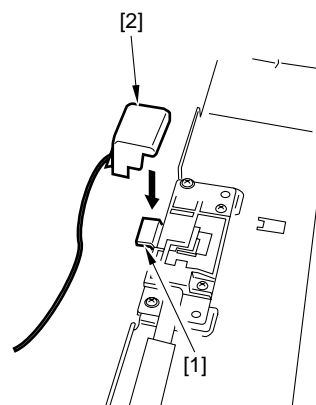
F-2-44

- 7) Fit the potential sensor checker electrode (FY9-3041) [2] to the potential

sensor [1].



When fitting the checker electrode to the potential sensor, be sure that the magnet of the checker electrode will not come into contact with the potential sensor cover.

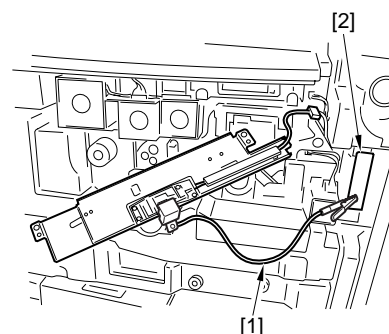


F-2-45

- 8) Connect the cable [1] of the potential sensor checker electrode to the frame (GND) [2] of the machine.



Never bring the clip into contact with the sensor cover. Be sure to keep it fully away from the sensor window.



F-2-46

- 9) Fit the door switch actuator into the door switch assembly.
- 10) Turn on the power switch.



Once you have turned on the power switch, do not touch the potential sensor assembly.

- 11) Make the following selections in service mode, and check to make sure that the reading is between 0 and 30 during initial rotation: COPIER> DISPLAY> DPOT> DPOT-K.

MEMO:

1. If the reading is as indicated in Method 1 but is not in Method 2, suspect dirt on the sensor or a fault in the potential measurement unit.
2. If the reading is as indicated in both Method 1 and Method 2, assume that the signal path and the operation from the potential sensor unit to the microprocessor on the DC controller PCB are normal.

- 12) Turn off the power switch.
- 13) Remove the potential sensor checker electrode.
- 14) Mount the potential sensor support plate.
- 15) Turn on the power switch.

2.7.9 Checking the Environment Sensor

iR7105 / iR7095 / iR7086 /

1) Checking the Environment Sensor

Make the following selections in service mode, and check and record the temperature/ humidity indicated on the screen in the control panel: COPIER > DISPLAY > ANALOG.

Data A
'TEMP' deg C data A1
'HUM' % data A2

- 2) Press the Rest key twice to turn off the power switch.

- 3) Remove the environment sensor, and fit the environment sensor jig (FY9-3014) in its place.
- 4) Turn on the power switch, and leave the machine alone for 5 min.
- 5) Make the following selections in service mode, and check and record the temperature/ humidity indicated on the screen in the control panel:
COPIER > DISPLAY > ANALOG:
Data B
'TEMP' deg C data B1
'HUM' % data B2
- 6) Compare data A and data B.
- difference between data A 1 and data B1 is 0 -/+ 5
- difference between data A2 and data B2 is 0 -/+ 20
If the difference between data A and data B is outside the range, replace the environment sensor.
- 7) Press the Reset key twice, and turn off the power switch.
- 8) Detach the environment sensor jig, and fit the environment sensor.
- 9) Put back all covers.

⚠
The environment sensor jig (FY9-3014) is precisely adjusted at the factory. Be sure to keep it in an air-tight case with a drying agent.

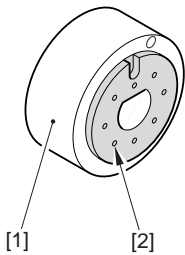
2.8 Pickup/Feeding System

2.8.1 Orientation of the Deck/Cassette Pickup Roller

iR7105 / iR7095 / iR7086 /

Mount the pickup roller using the steps used to remove it but in reverse while keeping the following in mind:

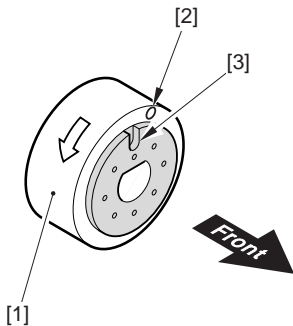
- The pickup roller used in the front of the machine and the one used in the rear are not compatible with each other.
- The pickup roller [1] used at the front of the machine is identified by 8 markings [2] on its collar.



F-2-47

Pickup Roller at the Front

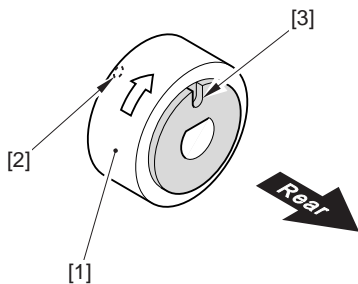
Mount the pickup roller [1] so that the marking [2] on the side and the cut-off [3] in the collar are toward the front of the machine.



F-2-48

Pickup Roller at the Rear

Mount the pickup roller [1] so that the round marking [2] on its side is toward the front of the machine while the cut-off [2] in the collar is toward the rear.

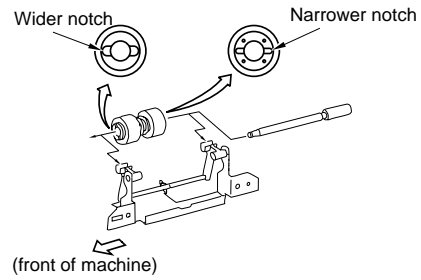


F-2-49

2.8.2 Orientation of the Deck/Cassette Separation Roller

iR7105 / iR7095 / iR7086 /

When replacing the separation roller, be sure that it is oriented as shown

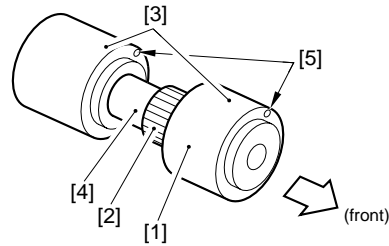


F-2-50

2.8.3 Orientation of the Feeding Roller of the Deck/Cassette Pickup Assembly

iR7105 / iR7095 / iR7086 /

When mounting the feeding roller assembly to the deck/cassette pickup assembly, be sure that the belt pulley [2] is to the front of the machine. When mounting the feeding roller [3] to the feeding roller shaft [4], be sure that the round marking [5] is toward the front of the machine.



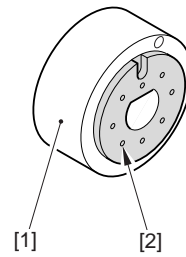
F-2-51

2.8.4 Orientation of the Manual Feed Tray/Side Paper Deck Pickup Roller

iR7105 / iR7095 / iR7086 /

Mount the roller using the steps used to remove it but in reverse while keeping the following in mind:

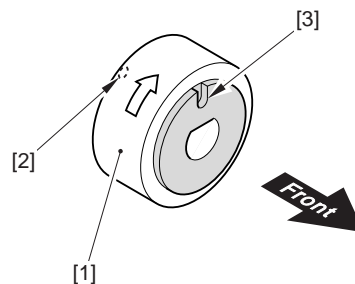
- The pickup roller used in the front of the machine and the one used in the rear are not compatible with each other.
- The pickup roller [1] used at the rear of the machine is identified by 8 markings [2] on its collar.



F-2-52

Pickup Roller at the Front

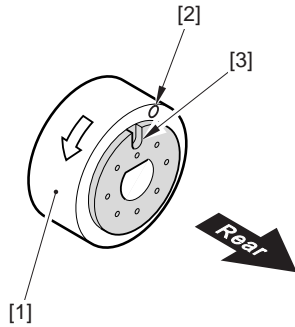
Mount the pickup roller [1] so that the round marking [2] on its side is toward the rear of the machine while the cut-off [3] in the collar is toward the front of the machine.



F-2-53

Pickup Roller at the Rear

Mount the pickup roller [1] so that the round marking [2] on its side and the cut-off [3] in the collar are toward the rear of the machine.

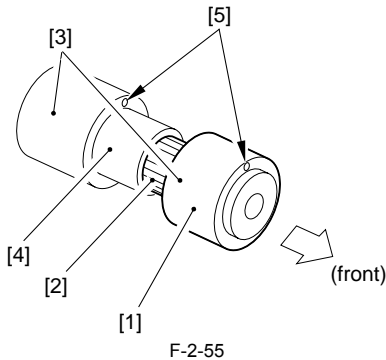


F-2-54

2.8.5 Orientation of the Feeding Roller of the Manual Feed Tray

iR7105 / iR7095 / iR7086 /

When mounting the feeding roller assembly [1] to the manual feed tray pickup assembly, be sure that the belt pulley [2] is toward the front of the machine. When mounting the feeding roller [3] to the feeding roller shaft [4], be sure that the round marking [5] is toward the front of the machine.



F-2-55

2.8.6 Orientation of the Feeding Roller of the Side Paper Deck

iR7105 / iR7095 / iR7086 /

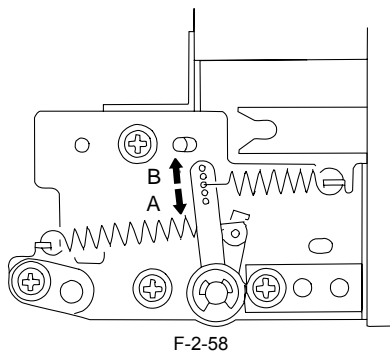
- | | | | |
|-----|----------------|-----|-------------------|
| [1] | Feeding roller | [2] | Separation roller |
| [3] | Locking lever | [4] | Pressure spring |

2.8.8 Adjusting the Pressure of the Pickup/Feeding Roller of the Manual

iR7105 / iR7095 / iR7086 /

If double feeding or pickup failure occurs during pickup, adjust the position of the pressure spring of the separation roller.

- If double feeding occurs, move the hook of the spring in the direction of arrow A.
- If pickup failure occurs, move the hook of the spring in the direction of B.

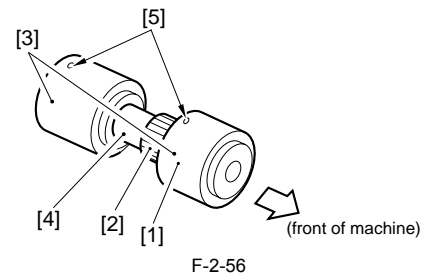


F-2-58

2.8.9 Location of the solenoids

iR7105 / iR7095 / iR7086 /

When mounting the feeding roller assembly [1] to the side paper deck pickup assembly, be sure that the belt pulley [2] is toward the front of the machine. When mounting the feeding roller [3] to the feeding roller shaft [4], be sure that the round marking [5] is toward the rear of the machine.



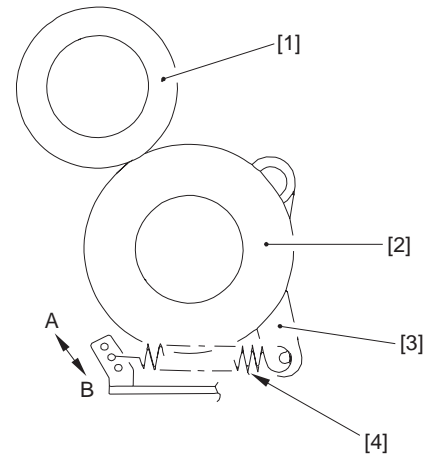
F-2-56

2.8.7 Adjusting the Pressure of the Deck/Cassette Separation Roller

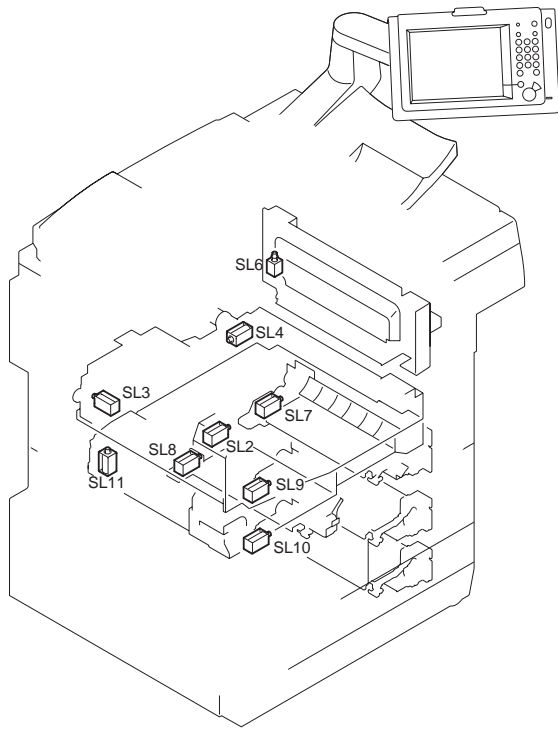
iR7105 / iR7095 / iR7086 /

If double feeding or pickup failure occurs during pickup, adjust the position of the pressure spring of the separation roller.

- If double feeding occurs, move the hook of the spring in the direction of arrow B.
- If pickup failure occurs, move the hook of the spring in the direction of A.



F-2-57
T-2-5



F-2-59

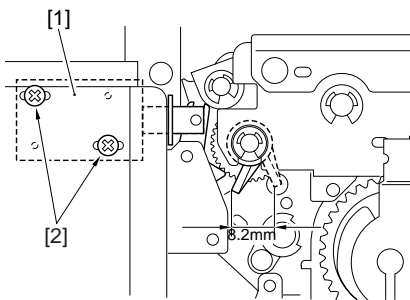
- SL2 : Fixing web solenoid
- SL3 : Delivery flapper solenoid
- SL4 : Fixing/feeder unit locking solenoid
- SL6 : Manual feed pickup latch solenoid
- SL7 : Deck (right) pickup solenoid
- SL8 : Deck (left) pickup solenoid
- SL9 : Cassette 3 pickup solenoid
- SL10: Cassette 4 pickup solenoid
- SL11: Reversing flapper solenoid

2.8.10 Position of the Fixing Web Solenoid (SL2)

iR7105 / iR7095 / iR7086 /

a. If the Fixing Web Is New

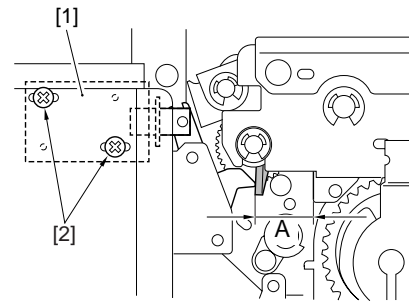
Use the position of the solenoid [1] using the screw [2] so that the travel of the drive lever is 8.2 mm.



F-2-60

b. If the Fixing Web Is Not New

Before removing the solenoid, check the position [A] of the drive lever when the solenoid [1] is ON. After replacing the solenoid, make adjustments using the screw [2] so that the position of the drive lever is the same (when the solenoid is ON).

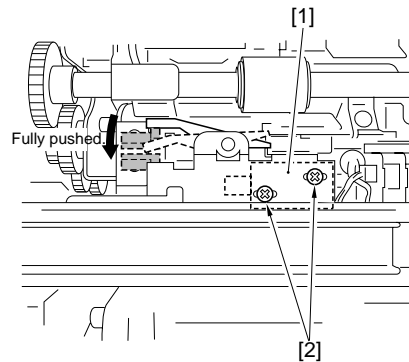


F-2-61

2.8.11 Position of the Delivery Flapper Solenoid (SL3)

iR7105 / iR7095 / iR7086 /

Use the screw [2] to adjust the position of the solenoid [1] so that the drive lever is fully pushed when the solenoid is ON (i.e., when the steel core is drawn).

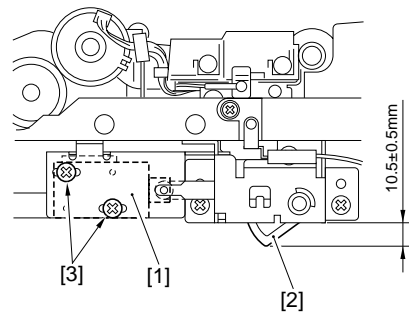


F-2-62

2.8.12 Position the Fixing/Feeder Unit Locking Solenoid (SL4)

iR7105 / iR7095 / iR7086 /

Use the screw [3] to adjust the position of the solenoid [1] so that the locking lever [2] is 10.5 +/- 0.5 mm away from the frame when the solenoid is ON (i.e., when the steel core is drawn).

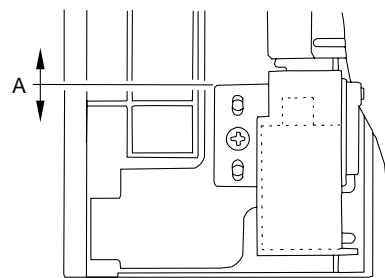


F-2-63

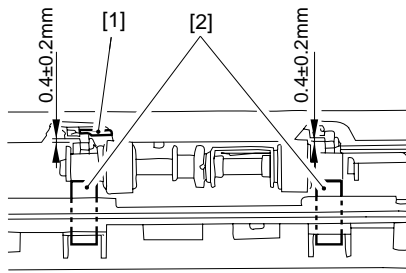
2.8.13 Position of the Multifeeder Latch Solenoid (SL6)

iR7105 / iR7095 / iR7086 /

Slide the solenoid in the direction of A so that the gap between the shutter [1] and the shutter plate [2] is 0.4 +/- 0.2 mm when the solenoid is drawn.



F-2-64

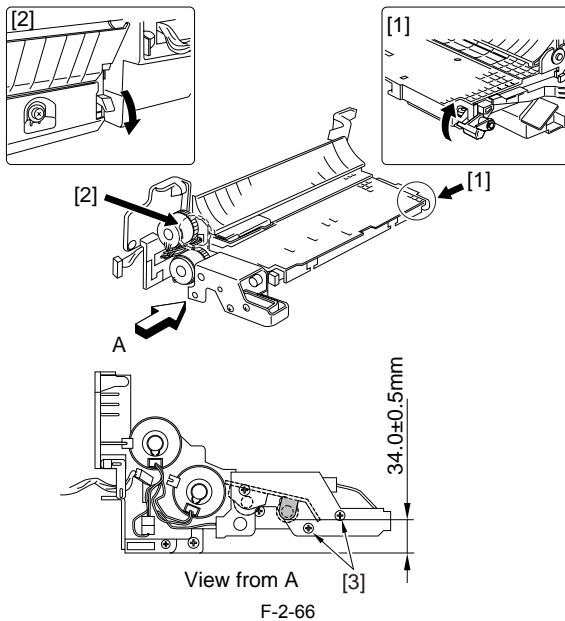


F-2-65

2.8.14 Position of the Deck (right) Pickup Solenoid (SL7)

iR7105 / iR7095 / iR7086 /

Use the screw [3] so that the distance from the pickup unit bottom of each cassette holder and the bushing bottom edge of the A roller support plate is 34.0 ± 0.5 mm when the plunger of the pickup roller releasing solenoid is drawn (as occurring when [1] and [2] are operated as shown). (After adjustment, make sure that the distance between the paper face and the A roller is 2.5 ± 0.5 mm when the A roller is in UP position.)

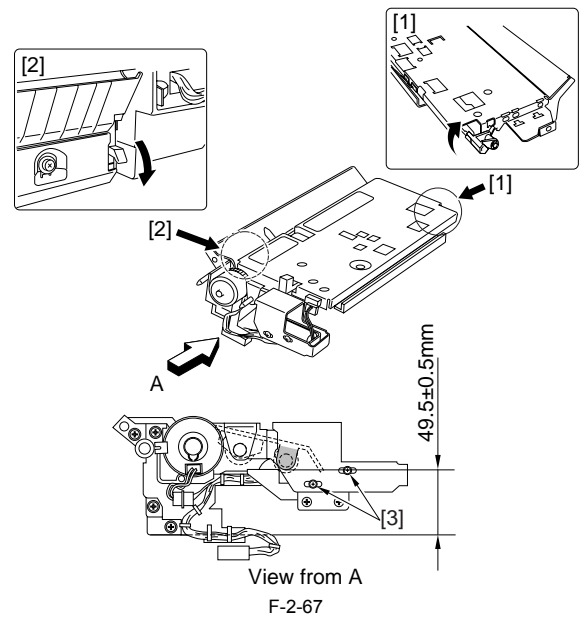


F-2-66

2.8.15 Position of the Deck (Left) Pickup Solenoid (SL8)

iR7105 / iR7095 / iR7086 /

Use the screw [3] so that the distance from the pickup unit bottom face to the bushing bottom edge of the A roller support plate is 49.5 ± 0.5 mm when the plunger of the pickup releasing solenoid is drawn (as occurring when [1] and [2] are operated as shown). (After adjustment, make sure that the distance between the paper face and the A roller is 2.5 ± 0.5 mm when the A roller is in UP position.)

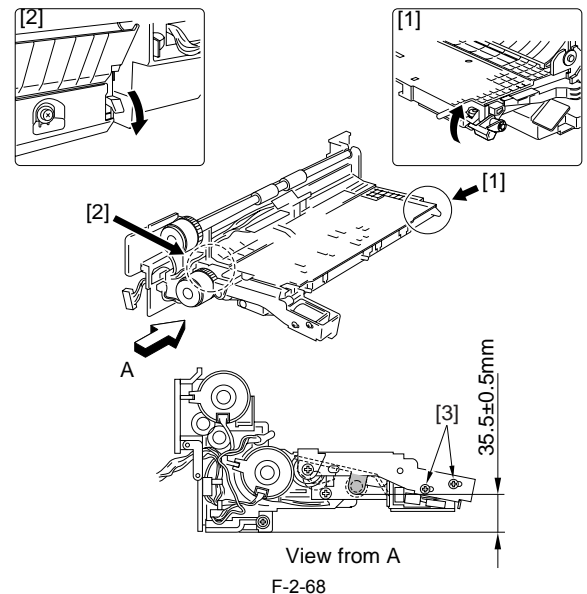


F-2-67

2.8.16 Position of the Cassette 3/4 Pickup Solenoid (SL9/10)

iR7105 / iR7095 / iR7086 /

Use the screw [3] so that the distance from the pickup unit bottom face of each cassette holder and the bushing bottom edge of the A roller support plate is 35.5 ± 0.5 mm when the plunger of the pickup roller releasing solenoid is drawn (as occurring when [1] and [2] are operated as shown). (After adjustment, make sure that the distance between the paper face and the A roller is 2.5 ± 0.5 mm when the A roller is in UP position.)

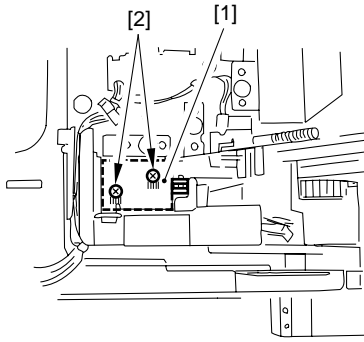


F-2-68

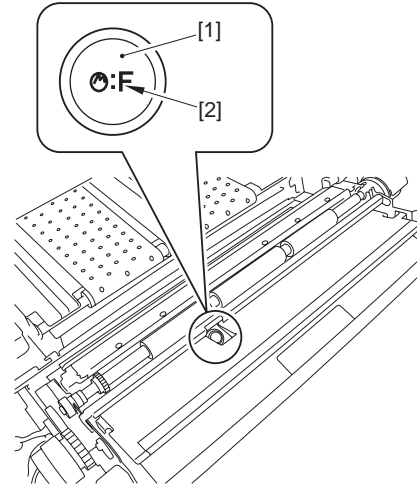
2.8.17 Position of the Side Paper Deck Pickup Roller Releasing Solenoid

iR7105 / iR7095 / iR7086 /

Before removing the deck pickup roller releasing solenoid [1] from the support plate, make mental notes of the positions of the 2 fixing screws [2] of the solenoid with reference to the index on the support plate. (Or, mark the position of the solenoid on the support plate with a scribe.) If you are replacing the solenoid on its own, you must secure it in its initial position.



F-2-69

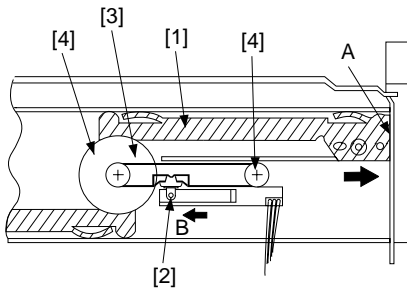


F-2-72

2.8.18 Fitting the Side Guide Timing Belt of the Manual Feed Tray Assembly

iR7105 / iR7095 / iR7086 /

Butt the rack plate [1] of the manual feed tray against section A (open state). Move the slide volume [2] in the direction of B, and fit the timing belt [3] to the pulley [4].

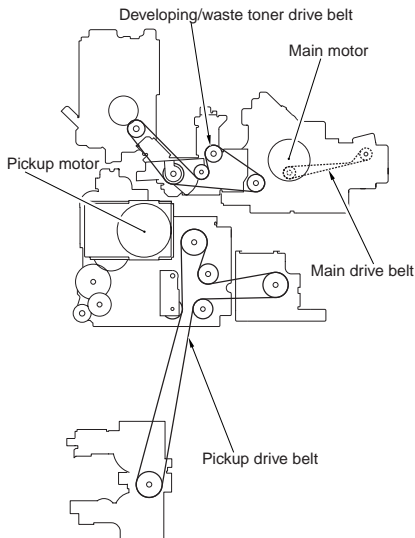


F-2-70

2.8.19 Fitting the Drive Belt

iR7105 / iR7095 / iR7086 /

Fit the drive belt to the pulleys and rollers as follows:



F-2-71

2.8.20 Cleaning the Double-Feed Sensor (transmission)

iR7105 / iR7095 / iR7086 /

If the surface of the double-feed sensor (transmission) [1] is soiled or shows a build-up of paper lint, clean it to avoid incorrect operation of the double-feed detection mechanism. Keep in mind, however, that the fine print [2] on the sensor surface is a notation used for production control, and is not the result of soiling.

Chapter 3 Error Code

3.1 Error Code Details

3.1.1 Error Code Details

iR7105 / iR7095 / iR7086 /

T-3-1

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
E000	The fixing unit has overheated. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	The reading of the main thermistor is less than 70 deg C 3.5 min after power-on.	Check the mounting/soiling of the main thermistor. Replace the fixing heater. Replace the main thermistor. Replace the AC driver PCB. Replace the DC controller PCB.
0010	The power has been turned off and then on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E001	The fixing unit has overheated. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0001	The reading of the main thermistor or the sub thermistor is 230 deg C or more for 2 sec. (hardware detection)	Replace the AC driver PCB. Replace the DC controller PCB.
0002	The reading of the main thermistor or the sub thermistor is 230 deg C or more for 2 sec or more. (software detection)	Check the mounting/soiling of the main thermistor. Replace the main thermistor. Replace the sub thermistor. Replace the AC driver PCB. Replace the DC controller PCB.
0003	The difference in the readings of the main thermistor and the sub thermistor is 50 deg C for 1 sec. (main thermistor reading>sub thermistor reading)	Check the mounting/soiling of the main thermistor. Replace the main thermistor. Replace the AC driver PCB. Replace the DC controller PCB.
0004	The difference in the readings of the main thermistor and the sub thermistor is 50 deg C for 1 sec or more. (main thermistor reading>=sub thermistor reading)	
0010	The power has been turned off and then on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E002	The fixing unit has overheated. After correcting the error, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	The reading of the main thermistor has exceeded 70 deg C, but does not reach 100 deg C within 2.5 sec thereafter.	Disconnect and then connect J508 of the DC controller PCB. Disconnect and then connect the connectors of the fixing unit. Check the wiring between the main/sub thermistor and the DC controller. Check the mounting/soiling of the main thermistor. Replace the fixing heater. Replace the AC driver PCB. Replace the DC controller PCB.
0001	The reading of the main thermistor has exceeded 100 deg C, but does not reach 150 deg C within 2.5 min thereafter.	
0010	The power has been turned on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E003	The fixing unit temperature is abnormally low. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	The reading of the main thermistor has exceeded 100 deg C, but is 70 deg C or less for 2 sec thereafter.	Disconnect and then connect J508 of the DC controller PCB. Disconnect and then connect the connectors of the fixing unit. Check the wiring between the main/sub thermistor and the DC controller PCB. Check the mounting/soiling of the main thermistor. Replace the fixing heater. Replace the AC driver PCB. Replace the DC controller PCB.
E004	The fixing unit has a fault. (protective circuit ON) After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	While the sub heater is on, the SSR for the heater drive has a short-circuit for 5 sec or more.	Replace the AC driver PCB. Replace the DC controller PCB.
0001	While the main heater is on, the SSR for the heater drive has a short-circuit for 5 sec or more.	
E005	The fixing web has run out. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	The absence of the fixing web has been detected for 5 sec or more.	Check the position of the fixing web detecting lever. Replace the fixing web. Replace the fixing web length sensor. Replace the DC controller PCB. If you have replaced the fixing web, be sure to reset the counter: - COPIER>COUNTER>MISC>FIX-WEB - COPIER>COUNTER>DRBL-1>FX-WEB
0010	The power has been turned off and then on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E010	The main motor rotation is faulty.	

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
0000	After the main motor has gone on, the FG signal of the motor is not detected for 2 sec or more.	Disconnect and then connect J611 and J612 of the main motor. Disconnect and then connect J514 of the DC controller PCB. Disconnect and then connect J1720 of the relay PCB. Replace the main motor. Replace the relay PCB. Replace the DC controller PCB.
E012	The drum motor rotation is faulty.	
0000	After the drum motor has gone on, the PLL lock signal of the motor is not detected for 2 sec or more.	Disconnect and then connect J1721 of the relay PCB. Disconnect and then connect J512 of the DC controller PCB. Disconnect and then connect J601 and J602 of the drum motor. Replace the drum motor. Replace the DC controller PCB.
E013	The waste toner feedscrew is stuck. (clogged with waste toner) After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0000	The waste toner feedscrew is stuck for 4 sec or more.	Detach and then attach the waste toner pipe. Replace the waste toner pipe. Replace the waste toner feedscrew detecting switch. Replace the DC controller PCB.
0010	The power has been turned off and then on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E014	The fixing motor rotation is faulty.	
0000	After the fixing motor has gone on, the PLL signal of the motor is not detected for 2 sec or more.	Disconnect and then connect J651 and J652 of the fixing motor. Replace the fixing motor. Replace the relay PCB. Replace the DC controller PCB.
E015	The pickup motor rotation is faulty.	
0000	The pickup motor has gone on, but the FG signal of the motor is not detected for 2 sec or more.	Disconnect and then connect J621 and J622 of the pickup motor. Replace the pickup motor. Replace the relay PCB. Replace the DC controller PCB.
E019	The waste toner case is full.	
0000	After the waste toner case has become full, 50,000 prints (A4) or more have been made without disposing of the waste toner.	Dispose of the waste toner. Check the operation of the waste toner bottle base. Disconnect and then connect J514 of the DC controller PCB. Replace the waste toner case full sensor. Replace the DC controller PCB.
E020	The developing assembly is out of toner. The buffer motor rotation is faulty. The toner feed motor (sub hopper) rotation is faulty. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0001	The absence of toner inside the developing assembly is detected of 120 sec or more even when toner supply operation has been executed for the assembly.	Disconnect and then connect the connector (J504, J512) of the DC controller PCB. Replace the developing cylinder clutch (CL4). Replace the buffer motor (M18). Replace the magnet roller drive clutch (CL1).
0002	The absence of toner in the buffer is detected for 60 sec even after toner supply operation for the buffer has been executed and when there is toner inside the hopper.	Disconnect and connect the connector (J504, J511) of the DC controller PCB. Replace the buffer motor (M18). Replace the following: magenta roller drive clutch (CL1), toner transport motor (sub hopper; M22), toner transport clutch (sub hopper; CL23), buffer inside toner sensor (TS1), buffer inside toner lower limit sensor (TS2).
0003	The absence of toner inside the buffer is detected for 210 sec or more even when there is toner inside the sub hopper and after toner supply operation of that buffer following the replacement of the toner bottle.	
0004	The absence of toner inside the buffer is detected for 150 sec or more even when there is toner inside the buffer and after toner supply operation has been executed for the buffer following the replacement of the toner bottle.	
0005	When installation mode (COPIER>FUNCTION>INSTALL>TONER-S) is executed, the developing assembly inside toner sensor does not detect the presence of toner.	Disconnect and then connect the connector (J504) of the DC controller PCB. Replace the developing assembly inside toner sensor (TS3).
0006	When installation mode (COPIER>FUNCTION>INSTALL>TONER-S) is executed, the developing assembly inside toner sensor detects the presence of toner, but it does not detect the presence for 600 sec or more thereafter.	
0007	When installing mode (COVER>FUNCTION>INSTALL>TONER-S) is executed, the buffer inside toner sensor does not detect the presence of toner for 60 sec or more.	Disconnect and connect the connector (J504, J511) of the DC controller PCB. Replace the toner transport motor (sub hopper; M22), toner transport clutch (sub hopper; CL23), buffer inside toner sensor (TS1).
0008	When the toner feed motor (sub hopper) is driven, a fault is detected for 3 sec or more for the motor.	Disconnect and connect the connector (J511) of the DC controller PCB. Replace the toner feed motor (sub hopper; M22).
0009	There is a fault in the rotation of the buffer motor.	Disconnect and then connect the connector (J504) of the DC controller PCB. Replace the buffer motor (M18).
0010	The power has been turned off and then on without resetting the error.	Reset the error. (COPIER>FUNCTION>CLEAR>ERR)
E025	The toner bottle motor rotation is faulty.	

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
0000	A toner bottle motor error (over-current) is detected for 10 sec for a second time. MEMO: The 1st detection of the error will cause the machine to indicate the message "Shake and Replace the Toner Container."	Disconnect and then connect J512 of the DC controller PCB.
0001	The toner bottle motor is not connected.	
E032	The copy data controller/NE controller counter fails to operate.	
0001	An open circuit of the counter signal has been detected.	Disconnect and then connect J1022 of the main controller PCB. Replace the copy data controller/NE controller. Replace the main controller PCB.
E043	The rotation of the pickup motor of the side paper deck is faulty.	
0000	The side paper deck pickup motor has gone on, but the PLL lock signal is not detected for 2 sec or more (1st detection). MEMO: For the 2nd and subsequent detection, the machine will indicate "E043" on the screen offering a choice of sources of paper.	Disconnect and then connect J101 and J106 of the side paper deck driver PCB. Replace the pickup motor. Replace the side paper deck driver PCB. Replace the DC controller PCB.
E051	The horizontal registration HP detection has an error.	
0001	After the start of horizontal registration HP detection, the HP sensor is not off within 5 sec (i.e., not leaving home position). MEMO: If an error is detected in the course of horizontal registration HP detection at power-on, the machine will indicate the presence of a jam.	At the start of horizontal registration detection in the course of printing, the horizontal registration detection operation for downstream paper does not end within 5 sec.
0002	After the start of horizontal registration HP detection, the home position is not detected within 5 sec. MEMO: If an error is detected in the course of horizontal registration HP detection at power-on, the machine will indicate the presence of a jam.	
0003	Replace the horizontal registration HP sensor. Replace the horizontal registration motor. Replace the stackless transport driver PCB. Replace the DC controller PCB.	
E065	The high-voltage output has a fault. (primary charging assembly)	
0000	A fault (leak) is detected when high voltage is supplied to the primary charging assembly.	Remove and then mount the primary charging assembly. Check for soiling. Disconnect and then connect T601, J723, and J731 of the HV-DC PCB. Replace the HV-DC PCB.
E067	The high-voltage output has a fault.	
0000	A fault is detected at the same time in 2 of the following: primary high voltage, pre-transfer high voltage, transfer high voltage, separation high voltage.	Remove and mount the primary charging assembly. Remove and mount the pre-transfer charging assembly. Remove and mount the transfer/separation charging assembly. Disconnect and then connect J721, J723, J731, and J734 of the HV-DC PCB. Replace the HV-DC PCB. Replace the HV-AC PCB.
E068	The high-voltage output has a fault. (separation charging assembly)	
0000	A fault (leak) has been detected while the separation charging assembly is being supplied with high voltage.	Remove and mount the transfer/separation charging assembly. Disconnect and then connect J7233 and J734 of the HV-DC PCB. Disconnect and then connect J741 and J742 of the HV-AC PCB. Replace the HV-AC PCB. Replace the transfer/separation charging assembly. Replace the pre-transfer charging assembly.
E069	The transfer high voltage has an error.	
0000	A fault (leak) has been detected while the transfer charging assembly is being supplied with high voltage.	Remove and mount the transfer/separation charging assembly. Check for soiling. Disconnect and then connect T701 and J723 of the HV-DC PCB. Replace the HV-DC PCB. Replace the pre-transfer charging assembly.
E102	A read error has occurred in relation to the laser scanner unit EEPROM data.	
0001	The correction data cannot be read from the EEPROM of the laser scanner unit.	Disconnect and then connect the connector of the video PCB. Disconnect and then connect the DC controller PCB. Replace the laser scanner unit.
E110	The laser scanner motor rotation has a fault.	
0000	After the laser scanner motor has gone on, the PLL lock signal of the motor is not detected for 15 sec or more.	Check to see if all covers have been attached to the primary charging assembly. Disconnect and then connect J764 of the laser scanner motor drive PCB (in the laser scanner unit). Disconnect and then connect J1401 of the video PCB. Disconnect and then connect J506 of the DC controller PCB. Replace the laser scanner unit. Replace the video PCB. Replace the DC controller PCB.
E111	The laser scanner motor cooling fan rotation has a fault.	

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
0000	After the laser scanner motor cooling fan has gone on, the fan stop signal is detected for 5 sec or more.	Disconnect and then connect J503 of the DC controller PCB. Replace the laser scanner motor cooling fan. Replace the DC controller PCB.
E121	A fault exists in the rotation of the following: laser scanner unit cooling fan, reader heat discharge fan 1, reader heat discharge fan 2.	
0001	The laser scanner unit cooling fan has a fault. After the laser scanner unit cooling fan has gone on, the fan stop signal is detected for 5 sec or more.	Disconnect and then connect J503 of the DC controller PCB. Replace the laser scanner unit cooling fan. Replace the DC controller PCB.
0002	The reader heat discharge fan 1 has a fault. After the reader heat discharge fan 1 has gone on, the fan stop signal is detected for 5 sec or more.	Connect and then disconnect J512 of the DC controller PCB. Replace the reader heat discharge fan 1. Replace the DC controller PCB.
0003	The reader heat discharge fan 2 has a fault. After the reader heat discharge fan 2 has gone on, the fan stop signal is detected for 5 sec or more.	Disconnect and then connect J521 of the DC controller PCB. Replace the reader heat discharge fan 2. Replace the DC controller PCB.
E197	The laser scanner motor communication has a fault.	
0000	The communication with the laser control IC is not normal.	Replace the laser scanner unit. Replace the video PCB.
E202	The scanner HP detection mechanism has a fault.	
0001	While HP positioning is under way, the forward trip fails.	Disconnect and then connect the connector of the scanner HP sensor. Replace the scanner HP sensor. Replace the scanner motor. Replace the reader controller PCB.
0002	While HP positioning is under way, the reverse trip fails.	
E225	The intensity of the scanning lamp is inadequate. (The lamp is exhausted.)	
0001	At time of shading, the intensity of light is below the standard level.	Disconnect and then connect the connector of the scanning lamp. Replace the scanning lamp. Replace the inverter PCB. Replace the reader controller PCB.
** 0002	In ADF mode, the intensity of light is below the standard level between sheets.	
E227	The reader unit power supply (24 V) has a fault.	
0001	At power-on, the 24V port is off.	Disconnect and then connect the reader power supply connector. Replace the power supply.
0002	At the start of a job, the 24V port is off.	
0003	At the end of a job, the 24V port is off.	
0004	While a load is driven, the 24V port is off.	
E240 **	A fault exists in the communication between the main controller and the DC controller.	
0000	A fault has occurred in the communication between the CPUs of the main controller and the DC controller.	Disconnect and then connect the connector. Replace the DC controller PCB. Replace the main controller PCB.
E248	A fault exists in the following: main controller SRAM, reader controller EEPROM.	
0000	At start-up, an SRAM check error has occurred.	Replace the main controller PCB.
0001	An error has occurred at time of power-on (EEPROM).	Replace the reader controller PCB.
0002	An error has occurred during write operation (EEPROM).	
0003	A read error has occurred after write operation (EEPROM).	
E251	The inverter cooling fan rotation is faulty.	
0000	After the inverter cooling fan has gone on, the fan stop signal is detected for 5 sec or more.	Disconnect and then connect J1110 of the reader controller PCB. Replace the inverter cooling fan. Replace the reader controller PCB.
E302	Shading operation is faulty.	
0000	In the course of shading operation, the processing doses not end within the reader controller.	Disconnect and then connect J1107 and J1108 of the reader controller PCB. Replace the reader controller PCB.
E315	The image data codec has a fault.	
0007	A JBIG encoder error has occurred.	Replace the main controller PCB.
000d	A JBIG decoding error has occurred.	
000e	An error has occurred in the course of software decoding.	Replace the DDR-SDRAM. Replace the HDD. Replace the main controller PCB.
0100	An overrun error has occurred.	Replace the main controller PCB.
0200	the open I/F relay PCB has detected an error (no recovery after a retry).	Replace the open I/F relay PCB (relay PCB between the main controller and PS controller). Turn off and then back on the power. Replace the main controller PCB.
0300	Cubic time-out	
0400	Shift Device A time-out	
0401	Shift Device B time-out	
E351	An error has occurred in the main controller communication.	
0000	At start-up, a main controller communication error has occurred.	Replace the main controller PCB.
E400 **	An ADF communication error has occurred.	
0001	A check sum error has occurred.	Disconnect and then connect the connector. Replace the reader controller PCB. Replace the ADF controller PCB.
0002	A reception status error has occurred.	
0003	A reception interrupt error has occurred.	
E402 *	The ADF belt motor rotation is faulty.	

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
	0000 While the belt motor drive signal is on, no lock signal occurs for 100 msec.	Disconnect and then connect the cable between the belt motor driver PCB and the ADF controller PCB. Replace the belt motor clock sensor. Replace the belt motor clock sensor. Replace the belt motor. Replace the belt motor driver PCB. Replace the ADF controller PCB.
E404 *	The ADF delivery motor rotation is faulty.	
	0000 When the delivery motor drive signal is on, no clock signal occurs for 200 msec.	Replace the delivery motor. Replace the delivery motor clock sensor. Replace the ADF controller PCB.
E405 *	The ADF separation motor rotation is faulty.	
	0000 When the separation motor drive signal is on, no clock signal occurs for 200 msec.	Replace the separation motor. Replace the separation motor clock sensor. Replace the ADF controller PCB.
E410 *	The ADF pickup motor rotation is faulty.	
	0000 No signal occurs from the following sensors within 2 sec after the pickup motor is driven: - pickup roller height sensor 1 (PI8), pickup roller height sensor 2 (PI9) - pickup roller HP sensor (PI7)	Replace the pickup motor. Replace the pickup roller height sensor (PI8). Replace the pickup roller height sensor 2 (PI9). Replace the pickup roller HP sensor (PI7). Replace the ADF controller PCB.
E413 **	The ADF shift motor rotation is faulty.	
	0001 The shift motor HP sensor is open.	Disconnect and then connect the connector. Replace the shift motor HP sensor. Replace the shift motor.
	0002 Shift motor HP sensor is closed.	
E420 *	An ADF EEPROM read error has occurred.	
	0000 At power-on, an attempt to read the EEPROM backup data fails. Or, data that has been read has a fault.	Replace the ADF controller PCB.
E490	The ADF is of the wrong type.	
	0001 The ADF is of the wrong type.	Replace the ADF.
E602	The HDD has an error.	See the description under E602.
E604	The time memory (DDR-SDRAM) is faulty or inadequate.	
	0000 A DDR-SDRAM (1 GB) of adequate capacity is not detected.	Replace the DDR-SDRAM.
E609	The HDD temperature is abnormally low.	
	0008 At start-up, the HDD does not reach a specific temperature within a specific time.	Replace the HDD.
	0009 When returning from sleep mode, the HDD does not reach a specific temperature within a specific time.	
E610	The HDD encryption key is faulty.	
	0001 The memory is missing.	Install the security board.
	0002 The memory is inadequate.	Replace the DDR-SDRAM with one for the model in question (1 GB).
	0101 An attempt to initialize the key storage area of the memory has failed.	Turn off and then on the power. Replace the main controller PCB.
	0102 An error has occurred while the encryption processing area is being initialized.	Turn off and then on the power. Replace the security board.
	0201 An error has occurred in the encryption processing area.	
	0202 An error has occurred in the encryption processing area.	
	0301 An attempt to create an encryption key has failed.	
	0302 A fault exists in the encryption key.	
	0303 A fault exists in the encryption key.	Turn off and then on the power. Replace the main controller PCB.
	0401 An error has been detected during coding.	Turn off and then on the power. Replace the security board.
	0402 A fault has been detected in decoding.	
	0501 An error exists in the file management information in the image storage area.	
E711	An error has occurred in the communication between the pickup/delivery accessory and the printer unit.	
	0001 The communication controller has detected a fault.	Turn off and then back on the power. (Turn off the machine and its delivery accessories; then, turn back on all accessories and then the machine.) Connect the communication cables and terminals between the machine and the delivery accessories once again. Replace the accessories controller PCB. Replace the transceiver PCB.
E712	An error exists in the communication between the ADF and the reader unit.	
	0001 As much as 5 sec or more has passed without recovery after communication stopped between the reader controller and the ADF controller.	Disconnect and then connect the connectors between the reader unit and the ADF. Replace the reader controller PCB. Replace the ADF controller PCB.
E717	An error exists in the communication with the NE controller. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
	0001 The NE controller that has been connected before power-off is not recognized at power-on.	Disconnect and then connect the main controller PCB. Install the NE controller. Replace the NE controller.
	0002 An error that cannot be reset (e.g., cable break) has been detected in the communication.	

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
E719	An error has occurred in the communication with the coin vendor/card reader. After correcting the fault, be sure to reset the error. (COPIER>FUNCTION>CLEAR>ERR)	
0001	The coin vendor that was connected before power-off is not recognized at power-on.	Disconnect and then connect the connector of the main controller PCB. Install the coin vendor. Replace the coin vendor.
0002	In the communication with the coin vendor, an error that cannot be reset has occurred (e.g., cable break).	
0003	In the communication with the coin vendor, a communication error has occurred during acquisition of unit price information.	
0011	The card reader that was connected before power-off is not recognized at power-on.	Disconnect and then connect the connector of the main controller PCB. Install the card reader. Replace the card reader.
0012	In the communication with the card reader, an error that cannot be reset has occurred (e.g., cable break).	
E730	A PDL-related error has occurred.	
1001	An initialization error has occurred at the start of a job.	Reset the PDL mechanism. Turn off and then on the power.
100A	An error has occurred in the communication with an external controller.	
9004	A fault has been detected in the cable connection with an external controller.	Turn off and then on the power. Replace the external controller relay PCB. Replace the external controller.
9005	A fault has been detected in the cable connection with an external controller.	
A006	The PDL mechanism does not respond.	Reset the PDL mechanism. Turn off and then on the power. Reinstall the system software. Replace the main controller.
A007	At start-up, the version of the machine control software and that of the PDL control software do not match.	Reset the PDL mechanism. Turn off and then on the power. Execute full formatting of the HDD, and reinstall the system software.
B013	The font data is corrupted at start-up.	Turn off and then on the power. Reinstall the system software. Execute full formatting of the HDD, and reinstall the system software.
E732	An error has occurred in the communication between the reader unit and the main controller.	
0001	An error has occurred in the communication between the reader unit and the main controller.	Disconnect and connect the connectors of the read communication cable. Check the power supply of the reader unit (to see if initialization occurs at power-on). Replace the reader controller PCB. Reap the reader I/F PCB. Replace the main controller PCB.
0010	A fault has been detected in the reader sync signal detection mechanism.	
E733	An error has occurred in the communication between the reader unit and the main controller.	
0000	An error has occurred in the communication between the reader unit and the main controller.	Disconnect and then connect the connector. Check the power supply of the DC controller (to see if initialization occurs at time of start-up). Replace the DC controller PCB. Replace the main controller PCB.
0001	An attempt to communicate with the DC controller fails.	
0010	A fault has occurred in the printer engine sync signal detection mechanism.	
E740	An error exists in the LAN controller.	
0002	An illegal MAC address has been detected at start-up.	Replace the main controller PCB.
E743	A fault exists in the communication between the main controller and the reader controller.	
0000	The reader controller has detected an error in the communication between the main controller and the reader controller.	Disconnect and then connect the connectors of the reader communications cable. Replace the reader controller PCB. Replace the main controller PCB.
E744	An error exists in the language file/boot ROM.	
0001	The version of the language file on the HDD and that of bootable do not match.	Update the version of the language file (Language), or install the appropriate file.
0002	The language file on the HDD is too large.	
0003	There is no language to which a switchover is made as described in the Config file on the HDD.	
0004	An attempt to switch over to the language described in the Config file on the HDD fails.	
1000	The connected boot ROM is not one designed for the model in question.	Replace the boot ROM.
2000	An illegal engine ID has been detected.	Reinstall the system software.
E746	An unsupported optional board has been detected.	
0003	The option board that has been detected is one deigned for a different model.	Replace it with one for the model in question.
E749	Restart in accordance with a change of the product configuration	
0001	A boot ROM designed for a different model has been fitted in place (as when installing an PDL option).	There is no need for remedial action. Nevertheless, the fact will remain as part of the error history.
E800	The auto power-off circuit has an error.	
	An open circuit has been detected for 3 sec or more in the auto power-off circuit.	Turn off and then on the power. Disconnect and then connect J505 of the DC controller PCB. Disconnect and then connect J1719 of the relay PCB. Replace the relay PCB. Replace the DC controller PCB.

Code	Description	Remedial action
*: model equipped with DADF-Q1 (outside Japan, iR7105/7095; inside Japan: iR7105/7095/7086). **: model equipped with DADF-M1 (outside Japan: iR7086).		
E804	The rotation of the following is faulty: power supply cooling fan 1, power supply cooling fan 2, controller cooling fan.	
0001	The fan stop signal has been detected for 5 sec or more after the power supply cooling fan 1 has gone on.	Disconnect and then connect J505 of the DC controller PCB. Replace the power supply cooling fan 1. Replace the DC controller PCB.
0002	The fan stop signal has been detected for 5 sec or more after the power supply cooling fan 2 has gone on.	Disconnect and then connect J505 of the DC controller PCB. Replace the power supply cooling fan 2. Replace the DC controller PCB.
0004	The fan stop signal of the controller cooling fan has been detected continuously for 16 sec.	Disconnect and then connect J1028 of the main controller PCB. Replace the controller cooling fan. Replace the main controller PCB.
E805	The fixing heat discharge fan rotation is faulty.	
0002	The fan stop signal has been detected for 5 sec or more after the fixing heat discharge fan has gone on.	Disconnect and then connect J503 of the DC controller PCB. Replace the fixing heat discharge fan. Replace the DC controller PCB.
E820	The drum fan rotation is faulty.	
0000	The fan stop signal has been detected for 5 sec or more after the drum fan has gone on.	Disconnect and then connect J512 of the DC controller PCB. Replace the drum fan. Replace the DC controller PCB.
E823	The pre-transfer charging assembly fan rotation is faulty.	
0000	The fan stop signal has been detected for 5 sec or more after the pre-transfer charging assembly fan has gone on.	Disconnect and then connect J504 of the DC controller PCB. Replace the pre-transfer charging assembly fan. Replace the DC controller PCB.
E840	An HP detection error has occurred in relation to the fixing inlet sensor (fixing wrap jam detection).	
0000	The home position is not detected when the sensor is moved up/down (i.e., the sensor has not gone on).	Disconnect and then connect J508, J552, and J553 of the DC controller PCB. Disconnect and then connect J4001 and J4002 of the fixing inlet sensor ascent/descent motor driver PCB; as necessary, replace the fixing inlet sensor ascent/descent motor. Replace the fixing inlet sensor ascent/descent motor driver PCB.
0001	The home position is not detected when the sensor is moved up/down (i.e., the sensor has not gone off).	
E850	There is a fault in the double-feeding detection unit.	
0000	The double-feeding sensor (reception) fails to attain an ultrasonic signal of a specific level.	Remove paper lint from the surface of the double-feeding sensor (reception). Remount the double-feeding sensor (transmission, reception). Disconnect and then connect J509 and J550 of the DC controller PCB. Replace the double-feeding sensor (transmission, reception). Replace the double-feeding sensor PCB (transmission, reception).

3.1.2 Detail in E602

iR7105 / iR7095 / iR7086 /

<E602-XXYY>

XX= "00"

T-3-2

XX	YY	Description	Action to take
00	01	The HDD cannot be recognized.	- Turn off the power, and check the HDD cable. Thereafter, turn off the power. - Turn on the power, and listen for a sound from the HDD or touch the HDD, to see if the HDD is rotating. - Replace the HDD, and reinstall the system software. - Replace the main controller PCB.
	02	There is no system software for the main CPU. At time of start-up, no start-up partition (BOOTDEV) is found.	- Start up in safe mode, and perform full formatting using the SST and reinstall the system software; then, turn off and then on the power. - Replace the HDD, and reinstall the system software.
	03	An interrupt has been detected while data is being written to the boot device.	Take action according to the type of error code screen: <error code screen is black-and-white> - Turn off the power, and turn on the power while holding down the 1 and 9 keys. In response, the machine will automatically start to repair the sector in which the write operation has been interrupted. (The screen changes to solid black.) While repairs are being made, the progress of processing will be indicated on the screen, turning white at its end. When done, turn off and then back on the power. - Start up in safe mode, and perform full formatting using the SST and reinstall the system software; then, turn off and the back on the power. - Replace the HDD, and reinstall the system software. <error core screen is normal (spanner mark)> - Set CHK-TYPE=0, and execute HD-CHECK; then, turn off and then back on the power. - Start up in safe mode, and execute full formatting using the SST and reinstall the system software; then, turn off and back on the power. - Replace the HDD, and reinstall the system software.
	06	No system software is found for the sub CPU.	- Start up in safe mode, and perform full formatting using the SST and reinstall the system software; then, turn off and then back on the power. - Replace the HDD, and reinstall the system software.
	12	A file used by the Web browser to make references is damaged, or has been deleted.	- Reinstall the content of the Web browser. - Replace the HDD, and reinstall the system software.

XX				YY							
XX	CHK-TYPE	Partition	Description	Occurrence at time of start-up			Occurrence during normal execution				
				03	05	00,01,02,04	11,21	13,25	10,12,14,22,23,24		
				Action			Action				
01	1	FSTDEV	compressed image data (e.g., Box)	*1	*5	*9	*10	*11	*12		
02		IMG_MNG	file management table, profile								
03		FSTCDEV	job archiving (changing)								
04	2	APL_GEN	general-purpose data								
05		TMP_GEN	general-purpose data (temporary file)								
06		TMP_FAX	not used								
07		TMP_PSS	for PDL spool (temporary file)								
08	3	PDLDEV	PDL-related file								
09	4	BOOTDEV	firmware (system, MEAP, key, certificate, PDF dictionary, RUI, content, voice dictionary)							*3	*8
10	5	APL_MEAP	MEAP application							*1	*5
11	6	APL_SEND	address book, filter							*2	*6
12	7	APL_KEEP	for non-initialization data storage							*3	*8
13	8	APL_LOG	system log							*1	*5
FF	0	not specified	check for and recovery of HDD full-fault sectors	*4	*7						

	YY	Description	Action
*1	03	The ongoing write operation is interrupted (at start-up).	- Set the partition number in question for CHK-TYPE, and execute HD-CLEAR; then, turn off and then back on the power. - Enter CHK-TYPE in question (for the partition), and execute HD-CLEAR; then, turn off and then back on the power.
*2			- Ask the user to download the address book data using a remote UI. - Set the partition number in question for CHK-TYPE, and execute HD-CLEAR; then, turn off and then back on the power. - Start download mode, and perform full formatting using the SST and reinstall the system software; then turn off and then back on the power.
*3			The recovery operation for the boot partition is not possible without the use of the SST in save mode. - Set CHK-TYPE=0, and execute HD-CHECK; then, turn off and then back on the power. - Start download mode, and perform full formatting using the SST and reinstall the system software; then, turn off and then back on the power.
*4			- Set CHK-TYPE=0, and execute HD-CHECK; then, turn off and then back on the power. - Set CHK-TYPE=1, 2, 3, 5, and execute HD-CLEAR; then, turn off and then back on the power.
*5	05	A file system error has occurred.	- Enter CHK-TYPE in question (for the partition), and execute HD-CLEAR; then, turn off and then back on the power. - Replace the HDD, and reinstall the system software.
*6			The machine is designed so that execution of HD-CLEAR is not possible in service mode (so as to prevent loss of information, e.g., address book, filter information). - Ask the user to download the address book data using a remote UI. - In service mode, start download mode, and execute full formatting using the SST and reinstall the system software; then, turn off and then back on the power.
*7			- Set CHK-TYPE=1, 2, 3, 5, and execute HD-CLEAR; then, turn off and then back on the power. - Replace the HDD, and reinstall the system software.
*8			The recovery operation for the boot partition is not possible without the use of the SST in save mode. - Start up in safe mode, and execute full formatting using the SST and reinstall the system software; then, turn off and back on the power. - Replace the HDD, and reinstall the system software.
*9	00 01 02 04	The HDD has poor contact, or a system error has occurred.	- Check the cable and the power cord. - Start up in safe mode, and execute full formatting using the SST and reinstall the system software; then, turn off and back on the power. - Replace the HDD, and reinstall the system software.
*10	11 21	The HDD has poor contact.	- Check the cable and the power cord. - Replace the HDD, and reinstall the system software.
*11	13 25	The ongoing write operation has been interrupted.	There is a strong possibility of damage in the file data (e.g., Box) stored on the HDD. - Set the partition number in question for CHK-TYPE, and execute HD-CHECK; then, turn off and back on the power. - Set the partition number in question for CHK-TYPE, and execute HD-CLEAR; then, turn off and back on the power. (In the case of BOOTDEV, BOOTDEV2 or APL_SEND, execute reformatting using the SST, and reinstall the system software.) - Replace the HDD, and reinstall the system software.
*12	10 12 14 22 23 24	A system error or a packet error has been detected.	- Start up in safe mode, and perform full formatting using the SST and reinstall the system software; then, turn off and back on the power. - Replace the HDD, and reinstall the system software.

3.2 Jam Code

3.2.1 Jam Code (printer)

iR7105 / iR7095 / iR7086 /

T-3-4

Code	Jam type	Sensor type	Sensor No.
01xx	delay jam	See the table	
02xx	stationary jam		
0Axx	power-on residual jam		
0Bxx	door open jam		
0C00	double-feeding	double-feeding sensor (reception)	PS65

Code	Sensor type	Sensor No.	Code	Sensor type	Sensor No.
xx01	right deck pickup sensor	PS20	xx0F	duplexing reversal sensor	PS12
xx02	left deck pickup sensor	PS25	xx10	duplexing outlet sensor	PS61
xx03	cassette 3 pickup sensor	PS37	xx11	pre-confluence sensor	PS14
xx04	cassette 4 pickup sensor	PS42	xx12	post-confluence sensor	PS15
xx05	vertical path 1 paper sensor	PS47	xx13	left deck feed sensor	PS26
xx06	vertical path 2 paper sensor	PS49	xx14	right deck feed sensor	PS27
xx07	vertical path 3 paper sensor	PS41	xx15	side paper deck feed sensor	PS106
xx08	vertical path 4 paper sensor	PS46	xx16	multifeeder curl-removal sensor	PS68
xx09	registration roller sensor	PS5	xx17	side paper deck pickup sensor	PS101
xx0A	fixing claw jam sensor	PS65	xx18	image write start sensor	PS60
xx0B	inside delivery sensor	PS9	xx19	manual feeder feed sensor	PS35
xx0C	outside delivery sensor	PS10	xx1A	fixing inlet sensor	PS63
xx0D	fixing feed unit outlet sensor	PS11			

3.2.2 Jam Code (DADF-Q1)

iR7105 / iR7095 /

T-3-5

Code	Sensor type	Sensor No.	Description
0001	separation delay	S4	At time of separation, the separation sensor does not detect the original after it has been moved a specific distance (221 mm) following the start of the separation motor.
0002	pickup delay	S4,S2	At time of separation, the pre-registration roller sensor does not detect the original after it has been moved a specific distance (93 mm) following the detection of its lead edge by the separation sensor.
0003	pickup stationary 1	S3	At time of pickup, the post-registration sensor does not detect the original after it has been moved a specific distance (40 mm) following the start of the reversal motor.
0004	pickup stationary 2	S2	At time of pickup, the pre-registration roller sensor detects the original after it has been moved a specific distance (330 mm if small; 660 mm if large) following the start of the reversal motor.
0005	reversal delay	S1	At time of reversal, the reversal sensor does not detect the original after it has been moved a specific distance (104 mm) from the platen roller.
0006	reversal stationary	S1	At time of reversal, the reversal sensor detects the original after it has been moved a specific distance (original length x 1.5 mm) following arching operation.
0007	delivery delay	PI13	At time of delivery, the delivery sensor does not detect the original after it has been moved a specific distance (631 mm - original length) following the start of the belt motor.
0008	delivery stationary 1	PI13,S9	At time of delivery, the manual feeder registration roller sensor detects the original after it has been moved a specific distance (original length + 100 mm) following the activation of the delivery sensor.
0009	delivery stationary 2	PI13,S9	At time of delivery, the delivery sensor detects the original after it has been moved a specific distance (original length + 100 mm) following the deactivation of the manual feeder registration roller sensor.
0010	pre-reversal delay 1	S3	At time of pre-reversal, the post-registration roller sensor does not detect the original after it has been moved a specific distance (50 mm) following the activation of the reversal motor.
0011	pre-reversal delay 2	S1,S3	At time of pre-reversal, the reversal sensor does not detect the original after it has been moved a specific distance (100 mm) after the post-registration roller sensor has gone on.
0012	pre-reversal delay 3	PI4	At time of pre-reversal, the reversal sensor does not detect the original when it has been moved over a specific distance (100 mm) after the reversal motor has stopped.
0013	pre-reversal stationary 1	S1,S4	At time of reversal, the separation sensor has detected the original when it has been moved over a specific distance (169 mm) after the reversal sensor has gone on.
0014	pre-reversal stationary 2	S2,S4	At time of pre-reversal, the pre-registration sensor has detected the original when it has been moved over a specific distance (120 mm) after its trail edge has moved past the separation pull-off roller.
0015	pre-reversal stationary 3	S2,S3	At time of pre-reversal, the post-registration roller sensor detects the original after it has been moved a specific distance (50 mm) following the passage of the trail edge of the original for the pre-registration roller sensor.
0016	pre-reversal stationary 4	S1,S3	At time of pre-reversal, the reversal sensor detects the original after it has been moved a specific distance (100 mm) following the passage of the trail edge of the original from the pre-registration roller sensor.
0017	pre-reversal pickup delay	S1	At time of pre-reversal pickup, the reversal sensor does not detect the original after it has been moved a specific distance (100 mm) following the start of the reversal sensor.
0018	pre-reversal pickup stationary 1	S1,PI4	At time of pre-reveal, the pre-reversal sensor has detected the original when it has been moved over a specific distance after the reversal sensor has detected its lead edge.

Code	Sensor type	Sensor No.	Description
0019	pre-reversal pickup stationary 2	S1,P14	At time of pre-reversal pickup, the reversal sensor detects the original after it has been moved a specific distance following the detection of its trail edge by the pre-reversal sensor.
0020	reversal pickup delay	S2	At time of reversal, the pre-registration roller sensor does not detect the original after it has been moved a specific distance (197 mm) following the end of arching operation.
0021	reversal pickup stationary	S2	At time of reversal, the pre-registration roller sensor detects the original after it has been moved a specific distance (original length X 1.5 mm) following the start of the pre-registration roller sensor.
0022	pickup lead edge skew	S4,S5	At time of separation, there is a discrepancy of an equivalent of 10 mm in the timing of detecting the lead edge between the separation sensor and the skew sensor.
0023	pickup trail edge skew	S4,S5	At time of pickup, there is a discrepancy of an equivalent of 10 mm in the timing of detecting the trail edge between the separation sensor and the skew sensor.
0024	pickup fault 1	S1	At time of pickup, the reversal sensor detects an original before it moves past the pre-registration roller sensor.
0025	pickup fault 2	S3,S2	At time of pickup, the post-registration sensor detects an original before the start of the reversal motor. At time of pickup, the pre-registration roller sensor does not detect the original after it has been moved a specific distance. At time of pre-reversal, the pre-registration roller sensor detects an original before the start of the reversal motor. At time of reversal, the pre-registration roller sensor does not detect the original while its trail edge is moving past the reversal sensor.
0026	reversal pickup trail edge skew	S4,S5	At time of pre-reversal, there is a discrepancy of an equivalent of 10 mm in the timing of detecting the trail edge between the separation sensor and the skew sensor.
0027	reversal pickup fault 1	P14	At time of reversal, the pre-reversal sensor detects the original during a wait for the activation of the pre-registration roller sensor.
0030	manual feed registration delay	S9	At time of arching operation in manual feed mode, the manual feeder registration roller sensor does not detect an original within a specific period of time (1 sec) from the start of the delivery motor.
0031	manual feed registration delay	S1	At time of pickup from the manual feeder, the reversal sensor does not detect the original after it has been moved a specific distance (638 mm) following the start of the belt motor.
0032	manual feeder reversal stationary	S1	At time of pickup from the manual feeder (platen roller), the reversal sensor does not detect the original after it has been moved a specific distance (50 mm) following the start of the belt motor.
0033	manual feed delivery delay	PI13	At time of manual feed delivery, the delivery sensor does not detect the original after it has been moved a specific distance (621 mm - original length).
0034	manual feed delivery stationary	PI13	At time of manual feed delivery, the delivery sensor detects the original after it has been moved a specific distance (original length x 1.5) following the activation of the delivery sensor.
0043	1st sheet pickup stationary 1	S3	The 1st sheet is identified as a pickup delivery 1 jam (0003).
0044	1st sheet pickup stationary 2	S2	The 1st sheet is identified as a pickup stationary 2 jam (0004).
0045	1st sheet reversal delay	S1	The 1st sheet is identified as a reversal delay jam (0005).
0046	1st sheet reversal stationary	S1	The 1st sheet is identified as a reversal stationary jam (0006).
0047	1st sheet delivery delay	PI13	The 1st sheet is identified as a delivery delay jam (0007).
0048	1st sheet delivery stationary 1	PI13,S9	The 1st sheet is identified as a delivery delay jam (0008).
0049	1st sheet delivery stationary 2	PI13,S9	The 1st sheet is identified as a delivery stationary 2 jam (0009).
0050	1st sheet pre-reversal delay 1	S3	The 1st sheet is identified as a pre-reversal delay 1 jam (0010).
0051	1st sheet pre-reversal delay 2	S1,S3	The 1st sheet is identified as a pre-reversal delay 2 jam (0011).
0052	1st sheet pre-reversal delay 3	P14	The 1st sheet is identified as a pre-reversal delay 3 jam (0012).
0053	1st sheet pre-reversal stationary 1	S1,S4	The 1st sheet is identified as a pre-reversal stationary 1 jam (0013).
0054	1st sheet pre-reversal stationary 2	S2,S4	The 1st sheet is identified as a pre-reversal stationary 2 jam (0014).
0055	1st sheet pre-reversal stationary 3	S2,S3	The 1st sheet is identified as a pre-reversal stationary 3 jam (0015).
0056	1st sheet pre-reversal stationary 4	S1,S3	The 1st sheet is identified as a pre-reversal stationary 4 jam (0016).
0057	1st sheet pre-reversal pickup delay	S1	The 1st sheet is identified as a pre-reversal pickup delay jam (0017).
0058	1st sheet pre-reversal pickup stationary 1	S1,P14	The 1st sheet is identified as a pre-reversal pickup stationary 1 jam (0018).
0059	1st sheet pre-reversal pickup stationary 2	S1,P14	The 1st sheet is identified as a pre-reversal pickup stationary 2 jam (0019).
0060	1st sheet reversal pickup delay	S2	The 1st sheet is identified as a reversal pickup delay (0020).
0061	1st sheet reversal pickup stationary	S2	The 1st sheet is identified as a reversal pickup stationary jam (0021).
0062	1st sheet pickup lead edge skew	S4,S5	The 1st sheet is identified as a pickup lead edge skew jam (0022).
0063	1st sheet pickup trail edge skew	S4,S5	The 1st sheet is identified as a pickup trail edge skew jam (0023).
0064	1st sheet pickup fault 1	S1	A pickup NG1 condition (0024) has occurred on the 1st sheet.
0065	1st sheet pickup fault 2	S3,S2	A pickup NG1 condition (0025) has occurred on the 1st sheet.
0066	1st sheet reversal pickup trail edge skew	S4,S5	A reversal pickup trail edge skew condition (0026) has occurred on the 1st sheet.
0067	1st sheet reversal pickup NG1	P14	The 1st sheet is identified as a reversal pickup fault 1 jam (0027).
0071	timing fault 1	-	The software control mechanism has failed.
0072	timing fault 2	-	In copyboard mode, an original has been read and moved to and stopped at the right side of the platen roller; however, the preceding original has not been delayed.

Code	Sensor type	Sensor No.	Description
0073	illegal size	S3	At time of LDR stream reading, the post-registration sensor detects the original after it has been moved a specific distance (30 mm) from the wait position.
0074	manual feed original size error	S9,S1	At time of manual feed, the reversal sensor detects an original while the manual registration roller sensor also detects an original.
0075	image lead edge position error	S7	At time of stream reading, no change has occurred in the read position in response to a request for a change.
0076	1st sheet image lead edge position error	S7	The 1st sheet is identified as having an image lead edge position error (0075).
0077	belt speed setting error	PI1	The speed setting of the belt motor is below the minimum speed (100 mm/sec) or above the maximum speed (700 mm/sec).
0078	belt speed switch-over error	PI1	When the belt motor speed is switched over, the belt motor is not moving at a constant speed.
0079	belt status error	PI1	At time of switch-over, the state is not any of the following: acceleration, constant speed rotation, deceleration.
0080	image lead edge output timing error	S2,S3,SW301	At time of stream reading, the image lead edge signal is generated in the course of acceleration while a move is made from the wait position to the image lead edge position.
0081	reversal speed setting error	PI5	The speed setting of the reversal motor is below the minimum speed (100 mm/sec) or above the maximum speed (700 mm/sec).
0082	reversal speed switch-over error	PI5	At time of switching over the reversal motor speed, the reversal motor is not rotating at a constant speed.
0083	reversal status error	PI5	At time of switch-over, the state of the reversal motor is not any of the following: acceleration, constant speed, deceleration.
0084	last original error	PI1	A belt motor error occurs while the last original is being discharged by the platen roller or being moved.
0085	error	PI1,PI2,PI11	A motor error other than an IPC communication or pickup error has occurred. (less than 3 times)
0090	ADF open	PI10	The ADF is identified as being open.
0091	user DF open	PI10	The ADF is identified as being open while the machine is operating.
0092	cover open	PI3,PI6	The cover is identified as being open.
0093	user cover open	PI3,PI6	The cover (front or rear) is identified as being open while the machine is operating.
0094	initial stationary	PI4,PI12,PI13,S1,S2,S3,S4,S5,S9	At the start of operation, a sensor inside the paper path detects an original.
0095	cycle fault	S6	The pickup signal has been received for a specific period of time (2 sec) in the absence of a detected original.
0096	residual original	S1	The reversal sensor detects an original while the belt motor is moved for a specific distance before the start of a left pickup job.
0097	manual feeder residual original	S1,S9	At time of manual feed pickup, the reversal sensor detects an original while the manual feeder registration roller sensor also detects an original.
0098	power-down	-	A drop occurs in the voltage supplied by the host machine while the machine is operating.

3.2.3 Jam Code (DADF-M1)

IR7086

T-3-6

Code	Sensor	Notation	Description
0001	post-separation sensor	PI7	The post-separation sensor does not detect paper when paper has been moved 452 mm after the start of separation.
0002	post-separation sensor	PI7	- The separation sensor detects paper when paper has been moved 500 mm (if extra-length, +200 mm) -45.5 mm after registration pickup. - the sensor goes on (paper with hole) before paper has been fed 12 mm after the detection of the trailing edge; the separation sensor detects paper after paper has been fed 50 mm from when the separation sensor has gone on.
0003	registration sensor	PI1	The registration sensor does not detect paper a feed length of 134.8 mm after the post-separation sensor has gone on.
0004	registration sensor	PI1	The read sensor goes off before the registration sensor goes off.
0005	read sensor	PI8	- The read sensor does not detect paper a feed length of 364.2 mm (182.1 x 2) from the point of registration. - The read sensor does not detect paper a feed length of 157.4 mm (78.7 x 2) from the point of No. 2 registration.
0006	read sensor	PI8	- The read sensor detects paper a feed length of 500 mm (if extra-length, +200 mm) after the start of feed, resumed after a temporary stop for reading. - At time of LTRR/LGL identification in mix mode, the read sensor detects paper a feed length of 514 mm after the start of feed from the edging wait point.
0007	delivery reversal sensor	PI9	If not in high-speed duplexing mode, the delivery sensor does not detect paper when paper is moved 132.1 mm after it has reached the leading edge lower stream roller with reference to the activation of the read sensor.
0008	delivery reversal sensor	PI9	The delivery sensor detects paper a feed length of 161.9 mm after the trailing edge read end point.
0042	post-separation sensor	PI7	1st sheet, post-separation sensor, stationary
0043	registration sensor	PI1	1st sheet, registration sensor, non arrival
0044	registration sensor	PI1	1st sheet, registration sensor, stationary
0045	read sensor	PI8	1st sheet, read sensor, non arrival
0046	read sensor	PI8	1st sheet, read sensor, stationary
0047	delivery reversal sensor	PI9	1st sheet, delivery sensor, non arrival
0048	delivery reversal sensor	PI9	1st sheet, delivery sensor, stationary
0071	TIMING NG	-	fault in software timing

Code	Sensor	Notation	Description
0073	TIMING NG	-	fault in shift motor
0090	ADF open/closed sensor 1	PS502	The ADF has been opened while in operation.
0091	ADF open/closed sensor 1	PS502	The ADF has been opened while in operating (paper wait).
0092	DF cover open/closed sensor	PI6	The cover has been opened while in operation (drive system in operation).
0093	DF cover open/closed sensor	PI6	The cover has been opened while in operation (paper wait).
0094	registration sensor, separation sensor, feed sensor, delivery reversal sensor	PI1, PI7, PI8, PI9	Paper has been detected in the path while the 1st sheet is being picked up.
0095	original set sensor, DF cover open/closed sensor, ADF open/closed sensor 1	PI5, PI6, PS502	With no paper in the tray or while the tray is open, the start of pickup operation is detected.

3.2.4 Jam Code (finisher)

iR7105 / iR7095 / iR7086 /

T-3-7

Code	Jam	Sensor	Description
1002	Inlet sensor delay	PS3	The inlet sensor (PS3) does not detect paper within a specific period of time (distance) after the delivery signal from the host machine has been received.
1004	Shift unit sensor delay	PS4	The shift unit sensor (PS4) does not detect paper within a specific period of time (distance) after the inlet sensor (PS3) has detected paper.
1006	Buffer path 1 sensor delay	UN13	The buffer path 1 sensor (UN13) does not detect paper within a specific period of time (distance) after the shift unit sensor (PS4) has detected paper.
1008	Buffer path 2 sensor delay	UN14	The buffer path 2 sensor (UN14) does not detect paper within a specific period of time (distance) after the shift unit sensor (PS4) has detected paper.
100A	Upper delivery sensor delay	PS5	The upper delivery sensor (PS5) does not detect paper within a specific period of time (distance) after the buffer path 2 sensor (UN14) has detected paper.
100C	Lower path sensor delay	UN24	The lower path sensor (UN24) does not detect paper within a specific period of time (distance) after the buffer path 2 sensor (UN14) has detected paper.
100E	Lower delivery sensor delay	PS6	The lower delivery sensor (PS6) does not detect paper within a specific period of time after the buffer path 2 sensor (UN14) has detected paper.
1042	Saddle inlet sensor delay	PS101	The saddle inlet sensor (PS101) does not detect paper within a specific period of time (distance) after the lower path sensor (UN24) has detected paper.
1044	Saddle small sensor delay	PS103	The saddle small sensor (PS103) does not detect paper within a specific period of time (distance) after the saddle inlet sensor (PS101) has detected paper.
1046	Saddle vertical path sensor delay	PS105	The paper does not detect the saddle vertical path sensor (PS105) within a specific period of time after the saddle stop plate operation has been ended.
104A	Saddle pre-pressing sensor delay	PS111	The saddle pre-pressing sensor (PS111) does not detect paper within a specific period of time after the saddle stop plate operation has been ended.
1054	Saddle pressing home position sensor delay	PS113	The saddle pressing home position sensor (PS113) does not detect the home position within a specific period of time after the start of saddle stack delivery operation.
1103	Inlet sensor stationary	PS3	The paper does not leave the inlet sensor (PS3) within a specific period of time after it has detected paper.
1105	Shift unit sensor stationary	PS4	The paper does not leave the shift unit sensor (PS4) within a specific period of time (distance) after the inlet sensor (PS3) has detected paper.
1107	Buffer path 1 sensor stationary	UN13	The paper does not leave the buffer path 2 sensor (UN14) within a specific period of time (distance) after the shift unit sensor (PS4) has detected paper.
1109	Buffer path 2 sensor stationary	UN14	The paper does not leave the buffer path 2 sensor (UN14) within a specific period of time (distance) after the shift unit sensor (PS4) has detected paper.
110B	Upper delivery sensor stationary	PS5	The paper does not leave the upper delivery sensor (PS5) within a specific period of time (distance) after the buffer path 2 sensor (UN14) has detected paper.
110D	Lower path sensor stationary	UN24	The paper does not leave the lower path sensor (UN24) within a specific period of time (distance) after the buffer path 2 sensor (UN14) has detected paper.
110F	Lower delivery sensor stationary	PS6	The paper does not leave the lower delivery sensor (PS6) within a specific period of time (distance) after the buffer path 2 sensor (UN14) has detected paper.
1143	Saddle inlet sensor stationary	PS101	The paper does not leave the saddle inlet sensor (PS101) within a specific period of time (distance) after the lower path sensor (UN24) has detected paper.
1145	Saddle small sensor stationary	PS103	The paper does not leave the saddle small sensor (PS103) within a specific period of time (distance) after the saddle inlet sensor (PS101) has detected paper.
1147	Saddle vertical path sensor stationary	PS105	The paper does not leave the saddle vertical path sensor (PS105) within a specific period of time after the saddle stop plate operation has been started.
114B	Saddle pre-pressing sensor stationary	PS111	The paper does not leave the saddle pre-pressing sensor (PS111) within a specific period of time after the end of saddle stop plate operation.
1155	Saddle pressing home position sensor stationary	PS113	The saddle home position sensor (PS113) remains on (detects the home position) at the start of saddle pressing operation.
1320	Residual (at power-on)		Paper exists within the transport path at power-on.
1422	Door open	MSW1	The front cover switch (MSW1) has identified the front cover as being open during machine operation.
1550	stitcher staple	SU	The saddle stitcher unit does not detect the start-up of the stitcher motor (M110) within a specific period of time.
1721	Residual (during initial rotation)		Paper exists in the path during initial rotation of the host machine.
1F52	Saddle stop plate	PS110	The saddle stop plate sensor (PS110) does not detect the start-up of the saddle motor stop plate motor (M106) within a specific period of time.

3.3 Alarm Code

3.3.1 Alarm Code

iR7105 / iR7095 / iR7086 /

T-3-8

EE	Location	ffff	Alarm
00	error code indication	0804	system fan alarm (detail code: 0004)

EE	Location	ffff	Alarm		
02	reader unit (scanner system)	0003	dust detection small 1		
		0004	dust detection small 2		
		0005	dust detection small 3		
		0006	dust detection small 4		
		0007	dust detection small 5		
		0008	dust detection small 6		
		0009	dust detection small 7		
		0010	dust detection large 1		
		0011	dust detection large 2		
		0012	dust detection large 3		
		0013	dust detection large 4		
		0014	dust detection large 5		
		0015	dust detection large 6		
		0016	dust detection large 7		
		0017	small position stream read disable		
		0018	large position stream read disable		
		0019	scanner lamp intensity too low		
		04	pickup/transport system	0001	right deck lifter
				0002	left deck lifter alarm
0003	cassette 3 lifter alarm				
0004	cassette 4 lifter alarm				
0007	manual feeder tray lifter alarm				
0008	side paper deck lifter alarm				
0011	right deck retry alarm				
0012	left deck retry alarm				
0013	cassette 3 retry alarm				
0014	cassette 4 retry alarm				
0017	manual feeder retry alarm				
0018	side paper deck retry alarm				
0019	right deck pickup sensor low intensity alarm				
0020	left deck pickup sensor low intensity alarm				
0021	cassette 3 pickup sensor low intensity alarm				
0022	cassette 4 pickup sensor low intensity alarm				
0023	right deck pull-off sensor low intensity alarm				
0024	left deck pull-off sensor low intensity alarm				
0025	cassette 3 pull-off sensor low intensity alarm				
0026	cassette 4 pull-off sensor low intensity alarm				
0027	side paper deck pickup sensor low intensity alarm				
0028	side paper deck pull-off sensor low intensity alarm				
30	high-voltage system			0001	primary charging assembly leakage
				0002	transfer charging assembly leakage
				0003	separation charging assembly leakage
32	potential control system			0001	potential control VD alarm
				0002	potential control VL alarm
33	fan system			0001	delivery assembly curl-removing fan alarm
		0006	developing assembly fan alarm		
		0007	delivery anti-adhesion fan alarm		
61	stapler system (sorter/finisher)	0001	no staple		
62	saddle stitcher system	0001	no switch		
65	puncher system (sorter/finisher)	0001	punch case full		

Chapter 4 User Mode Items

4.1 User Mode Items

4.1.1 Common Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

*3 Indicates information that is delivered only if the number of output trays in the host machine and client machines is the same.

T-4-1

Item	Settings
Initial Function	Select Initial Function: Copy*1, Send, Mail Box, MEAP Set System Monitor as the Initial Function: On/Off*1 Set the default screen for System Monitor: Settings: Print Status*1, Consumables, Others (Copy*1, Send, Receive), Status*1, Log
Auto Clear Setting	Initial Function*1/Selected Function
Function Order Settings	Function Order Settings: Copy*1, Send*2, Mail Box, Scan, Printer*2 Settings for Function Group Order: Group A, Group B, MEAP
Audible Tones	Entry Tone: On*1, Off Invalid Entry Tone: On, Off*1 Restock Supplies Tone: On, Off*1 Error Tone: On*1, Off Job Done Tone: On*1, Off Forgot Original Tone (for the imageRUNNER 7086): On, Off*1
Display Remaining Paper Message	ON*1/OFF
Inch Entry	ON*1/OFF
Drawer Eligibility For APS/ADS	Copy, Printer, Mail Box, Receive, Other: (Stack Bypass: On/Off*1, All Other Paper Sources: On*1/Off)
Register Paper Type	Copy: Consider Paper Type: On/Off*1 Paper Drawers 1 and 2 and Paper Deck-W1 or Paper Deck-X1: Plain*1, Recycled, Color, Letterhead, Bond, 3-Hole Punch, Heavy Paper Drawers 3 and 4: Plain*1, Recycled, Color, Letterhead, Bond, 3-Hole Punch, Heavy, Tab Paper
Energy Saver Mode	-10%*1/-25%/-50%/None
Energy Consumption in Sleep Mode	Low*1/High
LTRR/STMT Original Selection	Distinguish Manually, Use LTRR Format*1, Use STMT Format
Tray Designation*2*3	If the Optional Finisher-V1 or Saddle Finisher-V2 Is Attached: Tray A: Copy*1, Mail Box*1, Printer*1, Receive*1, Other*1 Tray B: Copy*1, Mail Box*1, Printer*1, Receive*1, Other*1 If the Optional Finisher-V1 or Saddle Finisher-V2, and High Capacity Stacker A1 Are Attached: Tray A: Copy*1, Mail Box*1, Printer*1, Receive, Other Tray B: Copy*1, Mail Box*1, Printer*1, Receive, Other Tray C: Receive*1, Other*1
High Volume Stack Mode*2	ON/OFF*1
Printing Priority	Copy: 1*1/2/3 Printer : 1/2*1/3 Mail Box, Receive, Other: 1/2/3*1
Register Form for Form Composition	Register (Entire Image Composition*1, Transparent Image), Erase, Check Print, Details
Register Characters for Page No./Watermark	Register, Edit, Erase
Stack Bypass Standard Settings	ON/OFF*1
Registering Irregular Size for Stack Bypass	Register/Edit, Erase, Register Name

Item	Settings
Standard Local Print Settings	<p>Paper Select: Auto*1, All Paper Sources</p> <p>Copies: 1*1 to 9,999 sets</p> <p>Finishing:</p> <p>If the Optional Finisher-V1 or Saddle Finisher-V2 Attached: Do Not Collate, Collate, Offset Collate*1, Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right) (Double: Left, Right)</p> <p>If the Optional Punch Unit-V1 Is Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right), (Double: Left, Right), Hole Punch</p> <p>If the Optional Paper Folding Unit-D1 Is Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right), (Double: Left, Right), Z-Fold</p> <p>If the Optional Punch Unit-V1 and Paper Folding Unit-D1 Are Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right), (Double: Left, Right), Hole Punch, Z-Fold</p> <p>If the Optional High Capacity Stacker-A1 Is Attached Do Not Collate, Collate, Offset Collate*1, Group, Offset Group</p> <p>If the Optional High Capacity Stacker-A1 and Finisher-V1 or Saddle Finisher-V2 Are Attached: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right) (Double: Left, Right)</p> <p>If the Optional High Capacity Stacker-A1 and Punch Unit-V1 Are Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right) (Double: Left, Right), Hole Punch</p> <p>If the Optional High Capacity Stacker-A1 and Paper Folding Unit-D1 Are Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right) (Double: Left, Right), Z-Fold</p> <p>If the Optional High Capacity Stacker-A1, Punch Unit-V1 and Paper Folding Unit-D1 Are Attached to the Optional Finisher-V1 or Saddle Finisher-V2: Do Not Collate, Collate, Offset Collate*1, Group, Offset Group, Staple (Corner: Top Left, Bottom Left, Top Right, Bottom Right) (Double: Left, Right), Hole Punch, Z-Fold</p> <p>Offset: 1*1 to 9,999 sets</p> <p>Face Up/Face Down: Auto*1, Face Down (Normal), Face Up (Reverse)</p> <p>Stack. Destination*2 Stacker*1, Output Tray</p> <p>Two-sided Print: On (Book Type, Calender Type), Off*1</p> <p>Merge Documents: On, Off*1</p> <p>Language Switch ON/OFF*1</p> <p>Reversed Display (Color) ON/OFF*1</p> <p>Offset Jobs*2 ON*1/OFF</p> <p>Job Separator between Jobs ON/OFF*1</p> <p>Job Separator between Copies ON/OFF*1</p> <p>Number of Copies/Wait Time Status Display ON*1/OFF</p> <p>Register Sizes for Side Paper Deck*2 A3/A4/A4R/B4/B5/11"X17"/LGL/LTR/LTRR</p> <p>Different Paper Sizes for the Output Tray*2 ON*1/OFF</p> <p>Cleaning Display for the Original Scanning Area ON*1/OFF</p> <p>Limited Functions Mode*2 Finisher Tray A/B: ON/OFF*1 Finisher Saddle Stitcher Unit: ON/OFF*1 Finisher Inserter: ON/OFF*1 Folding Unit: ON/OFF*1 Puncher Unit: ON/OFF*1 Stacker: ON/OFF*1</p> <p>Shutdown Mode Press [Start]</p> <p>Initialize Common Settings Initialize</p>

4.1.2 Timer Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

T-4-2

Item	Setting
Time Fine Adjustment	00:00 to 23:59, in one minute increments
Auto Sleep Time	10, 15, 20, 30, 40, 50 min., 1 hour*1, 90 min., 2, 3, 4 hours
Auto Clear Time	0 (Off) to 9 minutes, in one minute increments; 2 min.*1
Time Until Unit Quiets Down	0 (Off) to 9 minutes, in one minute increments; 1 min.*1

Item	Setting
Daily Timer Settings	Sunday to Saturday, 00:00 to 23:59, in one minute increments
Low-power Mode Time	10, 15*1, 20, 30, 40, 50 min., 1 hour, 90 min., 2, 3, 4 hours

4.1.3 Adjustment/Cleaning

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

T-4-3

Item	Setting
Zoom Fine Adjustment	X/Y: -1.0% to +1.0% in 0.1% increments; 0.0%*1
Saddle Stitch Position Adjustment*2	All paper size: -2.0 mm to +2.0 mm, in 0.25 mm increments; 1.00 mm*1
Double Staple Space Adjustment	4 3/4" to 5 7/8" (120 mm to 150 mm), 4 3/4" (120 mm)*1
Trim Width Adjustment	0.08" to 0.78" (2.00 mm to 20.00 mm), in 0.01" (0.1 mm) increments; 0.08" (2.00 mm)*1
Adjust Creep (Displacement) Correction	Correction (for each paper type) 0.000" to 0.078" (0.00 mm to 2.00 mm), 0.002" (0.05 mm) increments; 0.010" (0.25 mm)*1
Exposure Recalibration	Copy/Inbox, Send: Light, Dark: 1 to 9 levels; 5*1
Character/Background Contrast Adjustment	Relative Contrast Value: -7 to +7; 0*1 Sample Print Sample Print Settings: Background Pattern: None*1, Arabesque, Fans, Polka Dots, Stars, Mesh, Clouds, Cherry Blossoms, Leaves Size: Small (36 pt.), Medium (54 pt.)*1, Large (72 pt.) White Letters on Colored Background: On, Off*1 Print Characters Vertically: On, Off*1 Standard Value Settings: 0 to 64; 20*1 Sample Print Print Settings: Sample Print Settings: Background Pattern: None*1, Arabesque, Fans, Polka Dots, Stars, Mesh, Clouds, Cherry Blossoms, Leaves Size: Small (36 pt.), Medium (54 pt.)*1, Large (72 pt.) White Letters on Colored Background: On, Off*1 Print Characters Vertically: On, Off*1 Latent String Density: 0 to 36; 8*1
Feeder Cleaning	Press [Start]
Wire Cleaning	Press [Start]

4.1.4 Report Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

*4 The Activity Report does not appear when the optional iR Security Kit is activated.

T-4-4

Item	Setting
Settings: Send*2	
TX Report	For Error Only*1, On, Off Report With TX Image: On*1, Off
Activity Report*4	Aut Print: On*1, Off Daily Activity Report Time: On, Off*1 Timer Setting: 00:00 to 23:59 Send/Receive Separate: On, Off*1
Print List: Send*2	
Address Book List	Address Book 1 to 10; Address Book 1*1, One-touch Buttons, Print List
User's Data List	Print List
Print List: Network*2	
Print List: Printer*2	

4.1.5 System Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

*5 Indicates items that are not delivered as device information.

Item	Setting
System Manager Settings	System Manager ID: 7 digit number maximum System Password: 7 digit number maximum System Manager: 32 characters maximum E-mail Address: 64 characters maximum Contact Information: 32 characters maximum Comment: 32 characters maximum
Dept. ID Management	Dept. ID Management: On, Off*1 Register Dept. ID/Password: Register, Edit, Erase, Limit Functions Page Totals: Clear, Print List, Clear All Totals Allow Printer Jobs With Unknown IDs: On*1, Off Allow Remote Scan Jobs with Unknown IDs: On*1, Off
Communications Settings*2	E-mail/I-Fax Settings Maximum Data Size For Sending: 0 (OFF), 1 to 99 MB; 3 MB*1 Full Mode TX Timeout: 1 to 99 hours, 24 hours*1 Divided Data RX Timeout: 0 to 99 hours, 24 hours*1 Default Subject: 40 characters maximum; Attached*1 Print MDN/DSN on Receipt: On, Off*1 Always send notice for RX errors: On*1, Off Use Send Via Server: On, Off*1 Memory RX Inbox Settings Memory RX Inbox Password: 7 digit number Use I-Fax Memory Lock: On, Off*1 Memory Lock Start Time: Everyday, Select Days, Off*1 Memory Lock End Time: Everyday, Select Days, Off*1
Remote UI	On*1, Off Use SSL*5: On, Off*1
Restrict Access to Destinations*2	Address Book Password: 7 digit number Access Number Management: On, Off*1 Restrict New Addresses: On, Off*1 E-Mail/I-Fax Domain Sending Restriction: Restrict Sending to Domain: On (Register*5, Edit*5, Erase*5), Off*1
Device Information Settings	Device Name: 32 maximum Location: 32 maximum
Network Settings*2	
Forwarding Settings*2	Validate/Invalidate, Register, Forward w/o Conditions E-mail Priority, Edit, Erase, Print List
Clear Message Board	Clear
Auto Online/Offline	Auto Online: On, Off*1 Auto Offline: On, Off*1
Date & Time Settings	Date and Time Setting (12 digit number) Time Zone: GMT -12:00 to GMT +12:00; GMT -05:00*1 Daylight Saving Time: On*1, Off
Register LDAP Server*2	Register, Edit, Erase, Print List
License Registration	24 characters maximum
Copy Set Numbering Option Settings	Copy Set Num. Op: On (Dept. ID: On, Off; Date: On, Off; Characters: On, Off), Off*1
MEAP Settings	Use HTTP: On*1, Off Use SSL*5: On, Off*1 Print System Information: Print
Device Information Delivery Settings	Transmitting Settings Register Destinations: Select All, Auto Search/Register, Register, Details, Erase, Print List Auto Delivery Settings: Everyday, Select Days, Off*1 Add. Functions Settings Value: On (Network Settings: Include, Exclude*1), Off*1 Dept. ID: On, Off*1 Address Book: On, Off*1 Select All, Details Manual Delivery Add. Functions Settings Value: On (Network Settings: Include, Exclude*1), Off*1 Dept. ID: On, Off*1 Address Book: On, Off*1 Select All, Details, Manual delivery Start Receiving Settings Restrictions for Receiving Device Info.: On, Off*1 Restore Data: Add. Functns Set. Value, Dept. ID, Address Book Press [Start]. Receive Restriction for Each Function: Add. Functions Settings Value: On*1, Off Dept. ID: On*1, Off Address Book: On*1, Off Communication Log: Details, Print List, Report Settings: Auto Print: On*1, Off Daily Activity Report Time: On*1, Off Separate Report Type: On, Off*1
Initialize All Data/Settings	Initialize
Display Dept.ID/User Name	On*1, Off

Item	Setting
Use Asterisks to Enter Access No./Passwords	On*1, Off
Forced Secure Watermark Mode*2	Copy: Do Not Set*1, Set Watermark: (COPY, INVALID, CONFIDENTIAL, FILE COPY, TOP SECRET, Create: Enter, Register) Date: Select the date format. Copy Set Numbering: 1 to 9,999; 1*1 Serial Number: Print Dept. ID: Print Mail Box: Do Not Set*1, Set Watermark: (COPY, INVALID, CONFIDENTIAL, FILE COPY, TOP SECRET, Create: Enter, Register) Date: Select the date format. Copy Set Numbering: 1 to 9,999; 1*1 Serial Number: Print Dept. ID: Print Printer: Do Not Set*1, Set Watermark: (COPY, INVALID, CONFIDENTIAL, FILE COPY, TOP SECRET, Create: Enter, Register) Date: Select the date format. Copy Set Numbering: 1 to 9,999; 1*1 Serial Number: Print Dept. ID: Print

4.1.6 Copy Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

T-4-6

Item	Settings
Screen Display Setting	Regular Copy Only*1, Regular and Express Copy, Express Copy Only Regular Copy Screen Priority: On*1, Off
Paper Select Key Size for Express Copy Screen	Large*1: Four paper sources maximum (Stack Bypass, Stack Bypass Settings, Paper Drawer 1, Paper Drawer 2, Paper Drawer 3, Paper Drawer 4, or Paper Deck-W1/X1), Small
Standard Key 1, 2 Settings for Regular Screen	Various modes; No Settings*1
Standard Key Settings for Express Copy Screen	Displayed Standard Keys: Up to 5 Set Keys*1, Up to 10 Set Keys, Settings: Various modes; No Settings*1
Auto Collate*2	On*1, Off
Image Orientation Image Orientation	On, Off*1
Auto Orientation	On*1, Off
Photo Mode	On, Off*1
Standard Settings	Store, Initialize
Register Remote Device	Register (Seven devices maximum), Details, Erase, Move To Top
Remote Device Transmission Timeout	5 to 30 seconds; 30 seconds*1
Initialize Copy Settings	Initialize

4.1.7 Communications Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

T-4-7

Item	Settings
Common Settings: TX Settings	
Unit Name*2	24 characters maximum
Erased Failed TX*2	On*1, Off
Handle Documents with Forwarding Errors*2	Always Print, Store/Print, Off*1
Photo Mode*2	On, Off*1
Retry Times*2	0 to 5 times; 3 times*1
Edit Standard Send Settings*2	Scanning Mode, File Format, Divide into Pages, Stamp (for the imageRUNNER 7086 only)
Register Favorites Button*2	Register/Edit, Erase (M1 to M18)
PDF(OCR) Settings*2	Smart Scan: On*1, Off Num. of Char. for Doc. Name Setting: 1 to 24 characters; 10 characters*1
Default Screen for Send*2	Favorites Buttons, One-touch Buttons, New Address*1
TX Terminal ID*2	On*1 (Printing Position: Inside, Outside*1; Display Destination Name: On*1, Off), Off
Initialize TX Settings*2	Initialize
Common Settings: RX Settings	
Two-sided Print*2	On, Off*1

Item	Settings
Select Cassette*2	Switch A: On*1, Off Switch B: On*1, Off Switch C: On*1, Off Switch D: On*1, Off
Receive Reduction*2	On*1: RX Reduction: Auto*1, Fixed Reduction, Reduce % Reduce Direction: Vertical & Horizontal, Vertical Only*1 Off
Received Page Footer*2	On, Off*1
2 On 1 Log*2	On, Off*1

4.1.8 Mail Box Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

*5 Indicates items that are not delivered as device information.

T-4-8

Item	Settings
User Inboxes Settings	Inbox No.: 00 to 99 Register Inbox Name: 24 characters maximum Password*5: Seven digits maximum Time until Doc. Auto Erase: 0 (Off), 1, 2, 3, 6, 12 hours, 1, 2, 3*1, 7, 30 days URL Send Settings Print upon storing from the printer driver: On, Off*1 Initialize*5
Photo Mode	On, Off*1
Standard Scan Settings	Store, Initialize
Confidential Fax Inboxes Settings*2	Inbox No.: 00 to 49 Register Inbox Name: 24 characters maximum Password*5: Seven digits maximum URL Send Settings Initialize*5

4.1.9 Address Book Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

T-4-9

Item	Settings
Register Address*2	Register New Address, Edit, Erase
Register Address Book Name*2	Address Book 1 to 10; Address Book 1*1, Register Name (16 characters maximum)
One-touch Buttons*2	Register/Edit (from 001 to 200), Erase

4.1.10 Voice Guide Settings

iR7105 / iR7095 / iR7086 /

*1 Indicates the default setting.

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

T-4-10

Mode	Description
voice guide reading volume/speed*2	volume: 1 to 5*1 to 9 speed: (slow) -5 to 0*1 to +5 (fast)
voice type*2	male/female*1
auto clear in voice guide*2	ON/OFF*1
initialize voice guide settings*2	Is it OK to initialize? yes/no
speaker/headphone switch*2	speaker*1/headphone

Chapter 5 Service Mode

5.1 DISPLAY (Status Display Mode)

5.1.1 COPIER

5.1.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /

<VERSION>

T-5-1

COPIER > DISPLAY > VERSION		
Sub item	Description	Level
Use it to indicate the ROM version of a specific PCB (host machine, accessory). - EX: <R-CON XX.YY>XX, where XX indicates a version number while YY indicates an R&D control No. - In the absence of a PCB, the indication will be <-,>.		
DC-CON	indicates the ROM version of the DC controller PCB	1
R-CON	indicates the ROM version of the reader controller PCB	1
PANEL	indicates the ROM version of the control panel CPU PCB	1
FEEDER	indicates the ROM version of the ADF controller PCB	1
SORTER	indicates the ROM version of the finisher controller PCB (master CPU)	1
NIB	indicates the version of the network software	1
MN-CONT	indicates the ROM version of the main controller PCB	1
RIP1	not used	1
DIAG-DVC	indicates the ROM version of the self-diagnostic device	1
RUI	indicates the version of the remote user interface	1
PUNCH	indicates the version of the punch unit (inside the finisher)	1
LANG-EN	indicates the version of the English language file	1
LANG-FR	indicates the version of the French language file	1
LANG-DE	indicates the version of the German language file	1
LANG-IT	indicates the version of the Italian language file	1
LANG-JP	indicates the version of the Japanese language file	1
TRIM-VER	indicates the version of the trimmer	1
MEAP	indicates the version of the MEAP content	1
OCR-CN	indicates the OCR version of the Chinese language (simplified)	1
OCR-JP	indicates the OCR version of the Japanese language	1
OCR-KR	indicates the OCR version of the Korean language file	1
OCR-TW	indicates the OCR version of the Chinese language (classical)	1
BOOTROM	indicates the version of the boot ROM format: xx.yy_z, where z indicates the type of boot ROM	1
TTS-JA	indicates the version of the audio dictionary of the Japanese language	1
TTS-EN	indicates the version of the audio dictionary of the English language	1
WEB-BRWS	indicates the version of the Web browser	1
FN-INS	indicates the ROM version of the cover inserter for the finisher	1
STK-IF	indicates the version of the ROM of the relay PCB for the stacker	1
STACK	indicates the version of the ROM for the stacker	1
BND-IF	for future use	1
BND-MSTR	for future use	1
BND-SLAV	for future use	1
BND-TRIM	for future use	1
BND-INS	for future use	1
LANG-CS	indicates the version of the Czech language file	2
LANG-DA	indicates the version of the Danish language file	2
LANG-EL	indicates the version of the Greek language file	2
LANG-ES	indicates the version of the Spanish language file	2
LANG-ET	indicates the version of the Estonian language file	2
LANG-FI	indicates the version of the Finnish language file	2
LANG-HU	indicates the version of the Hungarian language file	2
LANG-KO	indicates the version of the Korean language file	2
LANG-NL	indicates the version of the Dutch language file	2
LANG-NO	indicates the version of the Norwegian language file	2
LANG-PL	indicates the version of the Polish language file	2
LANG-PT	indicates the version of the Portuguese language file	2
LANG-RU	indicates the version of the Russian language file	2
LANG-SL	indicates the version of the Slovenian language file	2
LANG-SV	indicates the version of the Swedish language file	2

COPIER > DISPLAY > VERSION		
Sub item	Description	Level
Use it to indicate the ROM version of a specific PCB (host machine, accessory). - EX: <R-CON XX.YY>XX, where XX indicates a version number while YY indicates an R&D control No. - In the absence of a PCB, the indication will be <-,>.		
LANG-TW	indicates the version of the Chinese language file (simplified)	2
LANG-ZH	indicates the version of the Chinese language file (classical)	2
LANG-BU	indicates the version of the Bulgarian language file	2
LANG-CR	indicates the version of the Croatian language file	2
LANG-RM	indicates the version of the Romanian language file	2
LANG-SK	indicates the version of the Slovakian language file	2
LANG-TK	indicates the version of the Turkish language file	2

<ACC-STS>

T-5-2

COPIER > DISPLAY > ACC-STS		
Sub item	Description	Level
FEEDER	Use it to indicate the connection of the ADF. 0: not connected; 1: connected	1
SORTER	Use it to indicate the connection of a finisher and the puncher. <sorter type> 0: none 1: finisher 2: saddle finisher 3: saddle finisher + inserter 4: saddle finisher + paper folding unit 5: saddle finisher + inserter + paper folding unit 6: stacker <punch type> 0: none; 1: 2-hole; 2: 2-hole/3-hole; 3: 4-hole (FRN); 4: 4-hole (SWE)	1
DECK	Use it to indicate the connection of a paper deck. 0: not connected; 1: connected (small); 2: connected (large)	1
CARD	Use it indicates the connection of a card reader. 0: card reader connected, but card not inserted 1: card reader not connected, or card reader connected and card inserted ('1' if ready for copying; '0' if not ready for copying)	1
DATA-CON	Use it to indicate the connection of a copy data controller. 0: not connected; 1: connected	1
RAM	Use it to indicate the capacity of the memory mounted on the main controller PCB. 1024 MB	1
COINROBO	Use it to indicate the connection of a coin vendor. 0: not connected; 1: connected	1
NIB	Use it to indicate the connection of a network board. 0: connected 1: Ethernet board connected 2: TokenRing board connected 3: Ethernet board and TokenRing board connected	1
PS/PCL	not used	1
RIPI	not used	1
NETWARE	Use it to indicate installation of NetWare. 0: not installed; 1: installed	1
SEND	Use it to indicate addition of the SEND function. 0: SEND function not added; 1: SEND function added	1
TRIM-CN	Use it to indicate the connection of a trimmer. 0: not connected; 1: connected	1
PDL-FNC1/2	Use it to indicate the state (enabled/disabled) of the PDL function: 0000 0000 0000 0000 - 1111 1111 1111 1111 (0: OFF, 1: ON) for PDL-FNC1, b31 thorough b16 for PDL-FNC2, b15 thorough b0 b31: BDL, b30: PS, b29: PCL, b28: PDF, b27: LIPS, b26: N201, b25: I5577, b24: ESC/P, b23: HPGL, b22: HPGL2, b21: IMAGING, b20: KS, b19 through b0: for future use	1
HDD	Use it to indicate the model name of the HDD.	1
OVL P-UNT	Use it to indicate the connection of a double-feeding detection unit. 0: not connected; 1: connected	1
PCI/2/3	Use it to indicate the board name of PC1/2/3. if not connected: - (hyphen) if connected: board name <board name> Voice Board: voice guidance board 3DES Board: security expansion board	1
USBH-SPD	Use it to indicate the connection of the USB device.	2

<ANALOG>

T-5-3

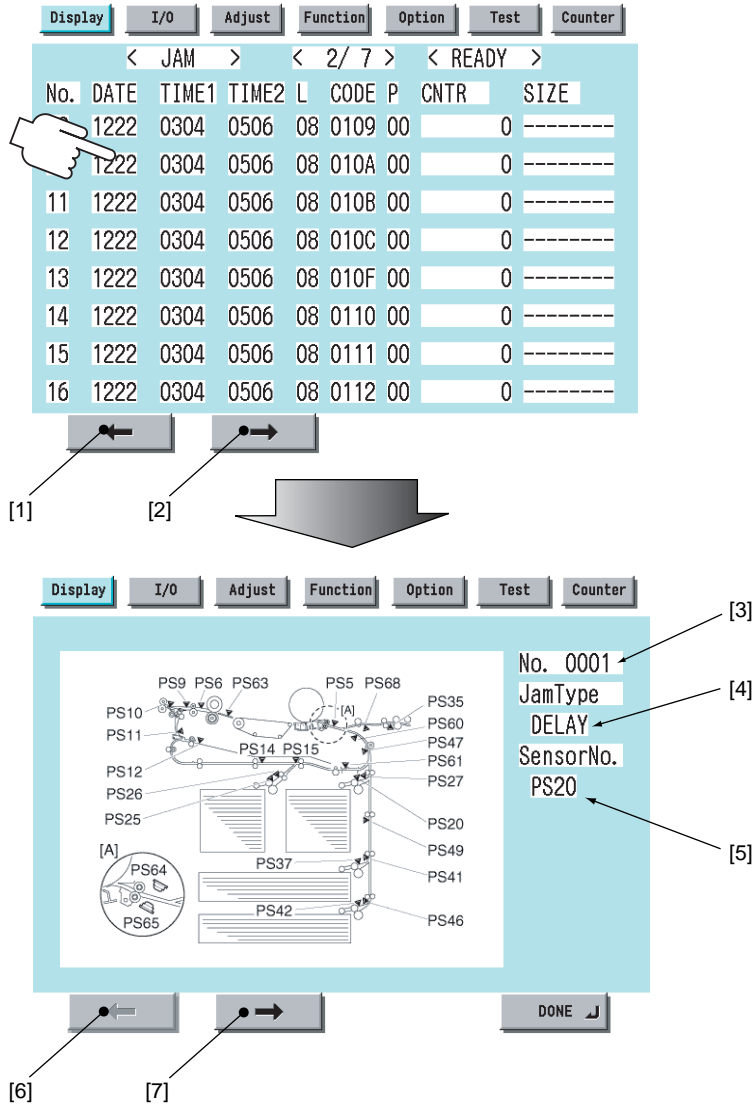
COPIER > DISPLAY > ANALOG		
Sub item	Description	Level
TEMP	machine inside temperature (environment sensor); unit: deg C	1
HUM	machine inside humidity (environment sensor); unit: %RH	1
ABS-HUM	water content (environment sensor); unit: g	1
FIX-C	fixing roller surface temperature (main thermistor); unit: deg C	1
FIX-E	fixing roller edge surface temperature (sub thermistor); unit: deg C	1

<CST-STES>

T-5-4

COPIER > DISPLAY > CST-STES		
Sub item	Description	Level
WIDTH-C3	indicates the paper width of cassette3 in terms of paper size; unit: mm	2
WIDTH-C4	indicates the paper width of cassette 4 in terms of paper size; unit: mm	2
WIDTH-MF	indicates the paper width size of the manual feeder tray; unit: mm	2

<JAM>



F-5-1

A touch on any Jam Indication screen will bring up the Detail screen of the jam in question.

- [1] to previous page
- [2] to next page
- [3] number indicating order of jam occurrence
- [4] type of jam
- [5] sensor in question
- [6] to previous jam screen
- [7] to next jam screen

No.: number indicating the order of jam occurrence; 1 through 50 (the higher the number, the older the jam)

DATE: date of jam occurrence

TIEM1: time of jam occurrence

TIEM2: time of jam recovery

L: location of jam

Code	Location
00	host machine
01	feeder
02	finisher / paper folding unit / insertion unit / panch unit / trimmer
51	stacker
61	for future use

CODE: jam code

P: source of paper

Code	Description
01	right deck
02	left deck
03	cassette 3
04	cassette 4
07	side paper deck

Code	Description
08	manual feeder tray
09	duplexing assembly
0A	inserter for finisher (upper)
0B	inserter for finisher (lower)
60	for future use
61	for future use

CNTR: reading of soft counter for source of paper
 SIZE: paper size



The jam detail screen can only display jam codes that occur in the units shown below.

- Main unit
- ADF
- Paper deck
- Finisher

When a jam occurs in other units, the jam detail screen is not displayed, but you can specify a jam occurrence location (unit) using the jam-processing screen (in animation) displayed in the user screen.



Measures for a jam (when both of a finisher and stacker are installed)

A finisher and stacker share some jam codes.

For such jam codes, the jam detail screen always displays finisher information (illustrations, sensor numbers), but the jam might be actually occurring in the stacker. **Be sure to check the display of "location, category" ("L") in the jam history screen to specify the unit where the jam occurs.**

<ERR>

Display	I/O	Adjust	Function	Option	Test	Counter
< ERR > < 2/ 7 > < READY >						
No.	DATE	TIME1	TIME2	CODE	DTL	L P
09	0102	0304	0506	E0708	090A	0C 0D
10	----	----	----	-----	----	-- --
11	0102	0304	0506	E0708	090A	0C 0D
12	0102	0304	0506	E0708	090A	0C 0D
13	0102	0304	0506	E0708	090A	0C 0D
14	0102	0304	0506	E0708	090A	0C 0D
15	0102	0304	0506	E0708	090A	0C 0D
16	0102	0304	0506	E0708	090A	0C 0D

F-5-2

No.: number indicating order of error occurrence (the higher the number, the older the error)

DATE: date of error occurrence

TIME1: time of error occurrence

TIME2: time of error recovery

CODE: error code

DTL: detail code (if none, '0000')

L: location grouping

Code	Location grouping
00	main controller
01	DADF
02	finisher / paper folding unit / insertion unit / panch unit / trimmer
04	reader unit
05	Printer unit
06	PDL board
51	stacker
61	for future use

P: not used

<HV-ST>

T-5-5

COPIER > DISPLAY > HV-ST		
Sub item	Description	Level
PRIMARY	level of primary charging current in relation to the photosensitive drum resistance detection control mechanism (APVC) (uA)	1
PRI-GRID	grid voltage of primary charging (V)	1
PRE-TR	level of pre-transfer charging current (uA)	1
TR	setting of transfer current of the job executed last (uA)	1

COPIER > DISPLAY > HV-ST5		
Sub item	Description	Level
SP	level of separation charging current (uA)	1
BIAS	developing bias setting of the job executed last (V)	1

<CCD>

T-5-6

COPIER > DISPLAY > CCD		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Description
TARGET-G	shading target value of green for the CCD	2
GAIN	gain level adjustment value for the CCD	2
GAIN-OG	gain level adjustment value for green of the odd-number bits of the CCD	2
GAIN-OR *	gain level adjustment value for red of the odd-number bits of the CCD	2
GAIN-EG	gain level adjustment value for green of the even-number bits of the CCD	2
GAIN-ER *	gain level adjustment value for red of the even-number bits of the CCD	2

<DPOT>

T-5-7

COPIER > DISPLAY > DPOT		
Notes: Except DPOT-K, the value indicated is in relation to the most recent potential control.		
Sub item	Description	Level
DPOT-K	photopositive drum surface potential (real-time indication) range: 0 to 600	1
VLIT	light area potential target value (for copier) range: 0 to 600	1
VLIM	light area potential measurement value (for copier) range: 0 to 600; approx. optimum: VLIT +/-6 V	1
VDT	dark area potential target value (for copier) range: 0 to 600	1
VDM	dark area potential measurement value (for copier) range: 0 to 600; approx. optimum: VDT +/-6 V	1
VG-K	primary charging grid voltage (for copier) range: 0 to 900	1
VLIM-P	light area potential measurement level (for printer) range: 0 to 600; approx. optimum: VLIT-P +/-6 V	1
VLIT-P	light area potential target value (for printer) range: 0 to 600	1
BIAS-P	developing bias voltage (for printer) range: 0 to 600	1
BIAS-C	developing bias voltage (for copier) range: 0 to 600	1
LPOWER-P	laser power value (for printer) range: 0 to 255	1
LPOWER-C	laser power value (for copier) range: 0 to 255	1
VDM-P	dark area potential measurement (for printer) range: 0 to 600; approx. optimum: VDT-P +/-6 V	1
VDT-P	dark area potential target value (for printer) range: 0 to 600	1
VDT-S	dark area potential target value (OHT, heavy paper, tracing paper) range: 0 to 600	1
VDM-S	dark area potential measurement value (OHT, heavy paper, tracing paper) range: 0 to 600; approx. optimum: VDT-S +/-6 V	1
VLT-S	light area potential target value (OHT, heavy paper, tracing paper) range: 0 to 600	1
VLM-S	light are potential measurement value (OHT, heavy paper, tracing paper) approx. optimum: VLT-S +/-6 V	1
VG-K-P	primary charging grid voltage (for printer) range: 0 to 900	2
VG-K-S	primary charging grid voltage (OHT, heavy paper, tracing paper) range: 0 to 900	2
LPOWER-S	laser power level (OHT, heavy paper, tracing paper) range: 0 to 255	2
BIAS-S	developing bias voltage (OHT, heavy paper, tracing paper) range: 0 to 600	2

<SENSOR>

T-5-8

COPIER > DISPLAY > SENSOR		
Sub item	Description	Level
DOC-SZ	indicates the size of the original detected by the original size sensor	2

<ALARM-2>

Display							I/O	Adjust	Function	Option	Test	Counter
<ALARM-2>							< 1/7 >		< READY >			
No.	DATE	TIME1	TIME2	CODE	DTL	CNTR						
01	---	---	---	---	---	---						
02	---	---	---	---	---	---						
03	---	---	---	---	---	---						
04	---	---	---	---	---	---						
05	---	---	---	---	---	---						
06	---	---	---	---	---	---						
07	---	---	---	---	---	---						
08	---	---	---	---	---	---						

No.: number indicating order of alarm occurrence (the higher the number, the older the alarm)

DATE: date of alarm occurrence

TIME1: time of alarm occurrence

TIME2: time of alarm recovery

CODE: code of alarm location

DTL: detail code of alarm

CNTR: total counter reading at time of alarm occurrence

<ENVRNT>

Indicates the history of changes with reference to the monitor output of the environment sensor and the fixing thermistor (main); machine inside temperature (deg C), humidity (%), fixing roller surface (middle portion) temperature (deg C).

The intervals at which data is collected may be changed in service mode: COPIER > OPTION > BODY > ENVP-INT.

Display							I/O	Adjust	Function	Option	Test	Counter
< ENVRNT >							< 1/13 >		< READY >			
No.	DATE	TIME	D+°C	E+%	F+°C							
001	0101	0000	0000	E000	F000							
002	0201	0000	0000	E000	F000							
003	0301	0000	0000	E000	F000							
004	0401	0000	0000	E000	F000							
005	0501	0000	0000	E000	F000							
006	0601	0000	0000	E000	F000							
007	0701	0000	0000	E000	F000							
008	0801	0000	0000	E000	F000							

F-5-3

Item	Description
No.	number indicating data collection (the higher the number, the older the data)
DATE	date of data collection
TIME	time of data collection
D+deg C	machine inside temperature
E+%	machine inside humidity
F+deg C	fixing roller surface (middle portion) temperature

5.1.2 FEEDER

5.1.2.1 FEEDER Items

iR7105 / iR7095 / iR7086 /

T-5-9

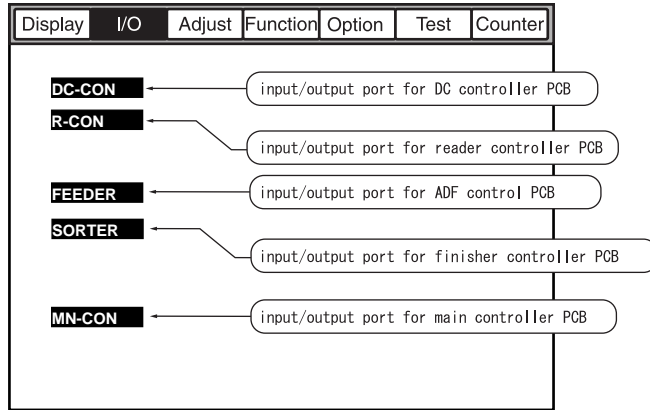
FEEDER > DISPLAY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
FEEDSIZE	indicates the size of the original detected by the ADF	1
TRY-WIDE **	indicates the distance moved by the original width detecting slider (for detection of the width of paper; 0.1 mm)	1
SPSN-LMN **	post-separation sensor light intensity indicates the manual adjustment value (light voltage) of the post-separation sensor optimum range 179 or less	1
SPSN-RCV **	post-separation sensor light reception amount indicates the light reception voltage of the post-separation sensor after manual adjustment optimum range paper present: 154 or less paper absent: 179 or more	1
RDSN-LMN **	read sensor light emission amount indicates the manual adjustment value (light emission voltage) of the reader sensor optimum range 179 or less	1
RDSN-RCV **	read sensor light reception amount indicates the light reception voltage of the read sensor after manual adjustment optimum range paper present: 154 or less paper absent: 179 or more	1
DRSN-LMN **	delivery reversal sensor light intensity indicates the manual adjustment value (light emission voltage) of the delivery reversal sensor optimum range 905 or less	1
DRSN-RCV **	delivery reversal sensor light reception amount indicates the light reception voltage of the delivery reversal sensor after manual adjustment optimum range paper present: 154 or less paper absent: 179 or more	1

5.2 I/O (I/O Display Mode)

5.2.1 Overview

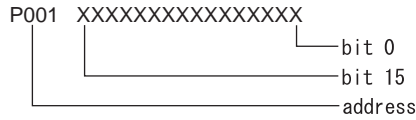
iR7105 / iR7095 / iR7086 /

The following screen appears in response to: COPIER>I/O DISPLAY.



F-5-4

<Guide to Screen>



F-5-5

5.2.2 <DC-CON>

iR7105 / iR7095 / iR7086 /

T-5-10

Address	Bit	Description	Notation	Remarks
P001	0	laser scanner motor cooling fan stop detection signal	FM1	
	1	fixing heat discharge fan stop detection signal	FM2	1: off
	2	laser scanner fan stop detection signal	FM3	1: off
	3	not used	-	
	4	curl-removing fan stop detection signal	FM6	1: off
	5	bottle motor error detection signal	M23	1: error
	6	drum suction fan stop detection signal	FM8	1: off
	7	pre-transfer charging assembly fan stop signal	FM10	1: off
	8	power supply cooling fan 1 stop detection signal	FM11	1: off
	9	power supply cooling fan 2 stop detection signal	FM12	1: off
	10	separation fan stop detection signal	FM13	1: off
	11	laser scanner motor lock detection signal	M4	0: constant speed
	12	delivery anti-adhesion fan stop detection signal	FM17	1: off
	13	developing fan stop detection signal	FM15	1: off
	14	reader heat discharge fan 1 stop detection signal	FM21	1: off
	15	reader heat discharge fan 2 stop detection signal	FM18	1: off

Address	Bit	Description	Notation	Remarks
P002	0	manual feed curl-removal sensor	PS68	1: paper present
	1	duplexing reversal sensor	PS12	1: paper present
	2	duplexing outlet sensor	PS61	1: paper present
	3	pre-confluence sensor	PS14	1: paper present
	4	post-confluence sensor	PS15	1: paper present
	5	image write start sensor	PS60	1: paper present
	6	fixing inlet HP sensor	PS66	1: HP
	7	fixing inlet sensor	PS63	1: paper present
	8	vertical path 1 paper sensor	PS47	1: paper present
	9	vertical path 2 paper sensor	PS49	1: paper present
	10	manual feeder transport sensor	PS35	1: paper present
	11	registration roller sensor	PS5	1: paper present
	12	inside delivery sensor	PS9	1: paper present
	13	outside delivery sensor	PS10	1: paper present
	14	fixing transport outlet sensor	PS11	1: paper present
15	claw jam sensor	PS6	1: paper present	
P003	0	buffer inside toner sensor	TS1	0: toner absent
	1	buffer inside toner lower limit sensor	TS2	0: toner absent
	2	developing assembly inside toner sensor	TS3	0: toner absent
	3	fixing web length sensor	PS7	1: no web
	4	fixing web length warning sensor	PS8	1: no web alert
	5	toner bottle sensor	PS67	1: present
	6	waste toner feedscrew lock detecting switch	MSW 2	0: waste toner clog
	7	waste toner full sensor	PS19	1: waste toner case full
	8	right deck pickup sensor	PS20	1: paper present
	9	left deck pickup sensor	PS25	1: paper present
	10	cassette 3 pickup sensor	PS37	1: paper present
	11	cassette 4 pickup sensor	PS42	1: paper present
	12	vertical path 3 paper sensor	PS41	1: paper present
	13	vertical path 4 paper sensor	PS46	1: paper present
	14	right deck pull-off sensor	PS27	1: paper present
15	left deck pull-off sensor	PS26	1: paper present	
P004	0	right deck lifter sensor	PS21	1: paper present
	1	left deck lifter sensor	PS31	1: paper present
	2	cassette 3 lifter sensor	PS38	1: paper present
	3	cassette 4 lifter sensor	PS43	1: paper present
	4	right deck paper level middle sensor	PS51	1: paper present
	5	right deck paper level upper sensor	PS52	1: paper present
	6	left deck paper level middle sensor	PS54	1: paper present
	7	left deck paper level upper sensor	PS55	1: paper present
	8	right deck paper sensor	PS22	1: paper present
	9	left deck paper sensor	PS32	1: paper present
	10	cassette 3 paper sensor	PS39	1: paper present
	11	cassette 4 paper sensor	PS44	1: paper present
	12	manual feeder tray paper sensor	PS17	1: paper present
	13	fixing inlet sensor lift motor driver PCB connection detection	PCB3 4	1: connected
	14	right deck limit sensor	PS24	1: limit
15	left deck limit sensor	PS34	1: limit	

Address	Bit	Description	Notation	Remarks
P005	0	cassette 3 paper length sensor	SV1	
	1	cassette 3 paper length sensor	SV1	
	2	cassette 4 paper length sensor	SV2	
	3	cassette 4 paper length sensor	SV2	
	4	right deck open/closed sensor	PS23	1: closed
	5	left deck open/closed sensor	PS33	1: closed
	6	cassette 3 open/closed sensor	PS40	1: closed
	7	cassette 4 open/closed sensor	PS45	1: closed
	8	upper right cover open/closed sensor	PS58	1: closed
	9	lower right cover open/closed sensor	PS48	1: closed
	10	manual feeder tray cover open/closed sensor	PS56	1: closed
	11	front cover open/closed detection	MSW7	1: closed
	12	bottle cover open/closed sensor	PS59	1: closed
	13	through path tray detection		0: present
	14	fixing transport unit release lever sensor	PS28	1: released
15	not used		1: error	
P006	0	drum motor lock detection	M0	0: constant speed
	1	laser scanner motor lock detection	M4	0: constant speed
	2	fixing motor lock detection	M3	0: constant speed
	3	primary charging error detection	PCB11	1: error
	4	transfer charging error detection	PCB11	1: error
	5	transfer charging error detection	PCB11	1: error
	6	buffer motor error detection	M18	1: error
	7	bottle motor error detection	M23	1: error
	8	sub hopper motor error detection	M22	1: error
	9	separation heat discharge fan stop detection	FM20	1: off
	10	right door fan stop detection	FM23	1: off
	11	duplexing transport fan stop detection	FM19	1: off
	12	sub hopper inside toner sensor	TS4	0: toner absent
	13	AC relay shut-off open circuit detection		1: normal
	14	overcurrent notification (24 V)	PCB14	1: overcurrent
15	overcurrent notification (38 V)	PCB14	1: overcurrent	
P007	0	primary charging wire cleanser drive	M8	1: to rear
	1	primary charging wire cleaner drive	M8	1: to front
	2	pre-transfer charging wire cleaner drive	M7	1: to front
	3	pre-transfer charging wire cleaner drive	M7	1: to rear
	4	transfer/separation charging wire cleaner drive	M9	1: to rear
	5	transfer/separation charging wire cleaner drive	M9	1: to front
	6	fixing motor brake signal	M3	1: brake
	7	sub hopper motor drive	M22	1: ON
	8	drum motor drive	M0	0: ON
	9	main motor drive	M1	0: ON
	10	pickup motor drive	M2	0: ON
	11	fixing motor drive	M3	0: ON
	12	laser scanner motor drive	M4	0: ON
	13	bottle motor drive	M23	1: ON
	14	buffer motor drive	M18	1: ON
15	laser scanner motor speed switchover	M4	0: high-speed	

Address	Bit	Description	Notation	Remarks
P008	0	fixing main heater drive	H1	1: ON
	1	fixing sub heater drive	H2	1: ON
	2	cassette heater drive	H4	0: ON
	3	drum heater drive	H3	1: ON
	4	drum heater half-wave/full-wave	H3	0: half-wave
	5	separation heat discharge fan full speed	FM20	0: ON
	6	bottle motor drive	M23	0: ON
	7	separation heat discharge fan half speed	FM20	0: off
	8	laser scanner motor cooling fan full speed	FM1	1: ON
	9	laser scanner motor cooling fan half speed	FM1	1: ON
	10	laser scanner cooling fan full speed	FM3	1: ON
	11	laser scanner cooling fan half speed	FM3	1: ON
	12	pre-transfer charging assembly fan full speed	FM10	1: ON
	13	pre-transfer charging assembly fan half speed	FM10	1: ON
	14	not used		
15	duplexing transport fan full speed	FM19	0: ON	
P009	0	vibration motor 1	M10	1: ON
	1	vibration motor 2	M20	1: ON
	2	separation fan full speed	FM13	1: ON
	3	not used		
	4	curl-removing fan full speed	FM6	1: ON
	5	developing fan full speed	FM15	1: ON
	6	developing fan half speed	FM15	1: ON
	7	not used		
	8	fixing heat discharge fan full speed	FM2	1: ON
	9	fixing heat discharge fan half speed	FM2	1: ON
	10	not used		
	11	delivery anti-adhesion fan full speed	FM17	1: ON
	12	drum suction fan full speed	FM8	1: ON
	13	drum suction fan half speed	FM8	1: ON
	14	power supply cooling fan 1/2 full speed	FM11/ 12	1: ON
15	power supply cooling fan 1/2 half speed	FM11/ 12	1: ON	
P010	0	left deck transport clutch	CL19	1: ON
	1	lower transport right clutch	CL17	1: ON
	2	lower transport middle clutch	CL16	1: ON
	3	developing cylinder clutch	CL4	1: ON
	4	developing cylinder deceleration clutch	CL20	1: ON
	5	left deck pickup solenoid	SL8	1: ON
	6	cassette 3 pickup solenoid	SL9	1: ON
	7	cassette 4 pickup solenoid	SL10	1: ON
P011	0	delivery flapper solenoid	SL3	1: ON
	1	reversal flapper solenoid	SL11	1: ON
	2-5	not used		
	6	for R&D		
	7	for R&D		
P012	0	not used		
	1	right deck pickup clutch	CL10	1: ON
	2	left deck pickup clutch	CL11	1: ON
	3	cassette 3 pickup clutch	CL12	1: ON
	4	cassette 4 pickup clutch	CL14	1: ON
	5	vertical path 1 clutch	CL8	1: ON
	6	vertical path 2 clutch	CL9	1: ON
	7	vertical path 3 clutch	CL13	1: ON
P013	0	vertical path 4 clutch	CL15	1: ON
	1	manual feeder tray pickup clutch	CL7	1: ON
	2	manual feeder tray transport clutch	CL18	1: ON
	3	pre-registration clutch	CL5	1: ON
	4	speed switchover delivery clutch	CL21	1: reversal; 0: straight
	5	multifeeder transport clutch	CL22	1: ON
	6	DDI command		
	7	DDI command		

Address	Bit	Description	Notation	Remarks
P014	0	buffer inside magnet roller drive clutch	CL1	1: ON
	1	sub hopper inside toner feed clutch	CL23	1: ON
	2	right deck pickup solenoid	SL7	1: ON
	3	manual feed pickup latch solenoid (return)	SL6	1: ON
	4	manual feed latch solenoid (pull)	SL6	1: ON
	5	double-feeding detection PCB (reception) power supply	PCB33	0: power supplied
	6	reader heat discharge fan 1 full speed	FM21	1: ON
	7	reader heat discharge fan 1 half speed	FM21	1: ON
P015	0	video PCB manual reset	PCB3	0: reset
	1	reader heat discharge fan 2 full speed	FM18	1: ON
	2	reader heat discharge fan 2 half speed	FM18	1: ON
	3	fixing web solenoid	SL2	1: ON
	4	fixing transport unit lock solenoid (return)	SL4	0: ON
	5	fixing transport unit lock solenoid (pull)	SL4	1: ON
	6	pre-exposure lamp	LED1	1: ON
	7	for factory check		
P016	0	potential sensor	PCB19	1: ON
	1	high-voltage DC output	HVT	0: high-voltage output on
	2	developing AC output	HVT	0: ON
	3	pre-transfer charging AC bias/separation AC bias	HVT	0: ON
	4	paper transport guide bias	PCB11	0: ON
	5	paper transport guide bias switchover	PCB11	0: 200V 1: 600V
	6	waste toner case full reset	MSW2	0: reset
	7	main power shut-off	SW1	1: shut-off
P017	0-5	DDI command		
	6	double-feeding detection PCB (reception) connection detection	PCB33	1: connected
	7	bottle motor connection detection	PCB23	0: connected
P018	0-2	DDI command		
	3	not used		
	4	right deck lifter motor drive	M13	1: ON
	5	left deck lifter motor drive	M14	1: ON
	6	cassette 3 lifter motor drive	M16	1: ON
	7	cassette 4 lifter motor drive	M17	1: ON
	P019	0	DDI command	
1		DDI command		
2		not used		
3		not used		
4		relay ON		
5		not used		
6		not used		
7		PTOP output		
P020	0	LED2		
	1	LED1		
	2-7	not used		
P021	0	for check		
	1	download control (reserved)		
	2	horizontal registration sensor		
	3	clock signal		
	4-7	not used		
P022	0	model switchover 1		
	1	model switchover 0		
	2	registration clutch brake		
	3	registration roller clutch		
	4	model switchover 2		
	5	relay SNS		
	6	not used		
	7	not used		
P023	0-7	factory mode		

Address	Bit	Description	Notation	Remarks
P024	0-5	factory mode		
	6	not used		
	7	not used		
P025	0	optical sensor off 7		
	1	optical sensor off 6		
	2	optical sensor off 5		
	3	optical sensor off 4		
	4	optical sensor off 3		
	5	optical sensor off 2		
	6	optical sensor off 1		
P026	7	optical sensor off 0		
	0	side paper deck LED		
	1	side paper deck pickup roller release solenoid		
	2	side paper deck pull-off clutch		
	3	side paper deck pickup clutch		
	4	side paper deck pickup motor		
	5	side paper deck lifter motor		
	6	side paper deck lifter up/down		
	7	side paper deck open solenoid		
	8	side paper deck chip select		(H: CL, etc.; L: SNR)
	9	side paper deck latch IC control		(on only at power-on)
	10	side paper deck sensor switchover		(L: pickup; H: pull-out)
	11	side paper deck sensor LED		(H: force off; L: on)
	12	side paper deck speed switchover 1		
	13	side paper deck speed switchover 2		
14	not used			
15	not used			
P027	0	side paper deck open switch		L: OPEN
	1	side paper deck paper present		H: prevented
	2	side paper deck pickup position sensor		H: ON
	3	side paper deck pickup sensor on		H: ON
	4	side paper deck pull-off sensor on		H: ON
	5	side paper deck pickup solenoid		H: ON
	6	side paper deck motor clock detection		H: detected
	7	side paper deck paper supply position sensor		H: ON
	8	side paper deck paper level detection		H: detected
	9	side paper deck lifter lower limit detection		H: detected
	10	side paper deck installation detection		H: installed
	11	side paper deck state detection		H: closed
	12	side paper deck lifter motor overcurrent detection		H: detected
	13	not used		
	14	side paper deck connection detection		H: detected
15	side paper deck connection detection		L: detected	
P028-P029		not used		
P030	0	sub SSR error		H: shorted
	1	main SSR error	E004	H: shorted
	2	fixing thermistor 2 error detection		H: error
	3	fixing thermistor 1 error detection	E001	H: error
	4	fixing thermistor 2 open circuit detection		H: released
	5	fixing thermistor 1 open circuit detection		H: released
	6	fixing motor zero-cross error		H: error
	7	not used		
	8	released by sub SSR		H: released
	9	released by main SSR		H: released
	10	released by error in fixing thermistor 2		H: released
	11	released by error in fixing thermistor 1		H: released
	12	released by open circuit fixing thermistor 2		H: released
	13	released by open circuit in fixing thermistor 1		H: released
	14	not used		
15	not used			

5.2.3 <R-CON>

iR7105 / iR7095 /

shading RAM chip select

T-5-11

Address	Bit	Description	Remarks
P001	0	reader heat discharge fan 1 stop detection	1: off
	1	reader heat discharge fan 1	1: ON
	2	reader heat discharge fan 2 stop detection	1: off
	3	reader heat discharge fan 2	1: ON
	4	not used	
	5	DDI-S command signal	
	6	DDI-S command signal	
	7	DDI-S command signal	
P002	0	xenon lamp control signal	0: ON
	1	power supply monitor (24V system)	1: 24V
	2	power supply monitor (13V system)	1: 13V
	3	not used	
	4	scanner motor control signal	1: ON
	5	sub scanning detection signal	0: ON
	6	sub scanning detection signal	0: ON
	7	main scanning detection signal	0: ON
P003	0	DDI-S command signal	
	1	ADF serial communication (TxD)	
	2	DDI-S command signal	
	3	ADF serial communication (RxD)	
	4	start-up check LED	
	5	DDI-S command signal	
	6	not used	
	7	not used	
P004	0	DDI-S command signal	
	1	DDI-S command signal	
	2	reader start-up signal	
	3	CPU operation mode setup	
	4	not used	
	5	not used	
	6	scanner motor reference voltage	
	7	not used	
P005	0	PC I/F	
	1	PC I/F	
	2	DDI-S command signal	
	3	DDI-S command signal	
	4	not used	
	5	not used	
	6	not used	
	7	not used	
P006	0	not used	
	1	for factory mode	
	2	original size detection control signal	1: ON
	3	main scanning detection signal	0: ON
	4	image lead edge signal	0: ON
	5	scanner home position signal	0: HPdetected
	6	not used	
	7	copyboard closed detection signal	0: closed
P007	0	address bus	
	1	address bus	
	2	address bus	
	3	not used	
	4	download start	
	5	ADF reset signal	
	6	ADF mode setup	
	7	DDI-S command signal	

Address	Bit	Description	Remarks
P008	0	not used	
	1	CCD on/off control signal	1: ON
	2	wait signal	
	3	write signal (Low)	
	4	write signal (High)	
	5	read signal	
	6	not used	
P009	7	CPU clock	
	0	not used	
	1	shading RAM chip select	
	2	work RAM chip select	
	3	ASIC RAM chip select	
	4	Flash ROM chip select	
	5	not used	
	6	not used	
7	not used		

5.2.4 <R-CON>

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Address	bit	Description	Remarks
P001	0	delivery motor clock	
	1	DDIS IF(OPTO0-)	0: operation prohibited
	2	DDIS IF(SPRDY)	0: operation enabled
	3	DDIS IF(OPTI0)	0: active
	4	ADF pickup motor clock	
	5	fan power supply on signal	1: ON
	6	ADF read motor clock	
P002	7	size sensor on	1: ON
	0	shift motor clock	
	1	24V power supply monitor	0: normal
	2-3	not used	
	4	scanner motor clock	
	5	13V power supply monitor	0: normal
	6	Canon Denshi switchover	0: Cannon Denshi
P003	7	DDIS IF(SCPRDY)	0: operation enabled
	0	DDIS serial communication (TxD)	-
	1	ADF serial communication (TxD)	-
	2	DDIS serial communication (RxD)	-
	3	ADF serial communication (RxD)	-
	4	LED control	1: ON
	5	ADF serial communication (STACK)	-
P004	6-7	not used	
	0	original size detection 0	0: original present
	1	original size detection 1	0: original present
	2	original size detection 2	0: original present
	3	original size detection 3	0: original present
	4	DF connection detection	-
	5	DDIS IF(SRTS)	0: reception ready
	6	scanner motor Vref output	-
P005	7	not used	-
	0	PC connection IF (TxD)	-
	1	PC connection IF (RxD)	-
	2	fan lock detection signal	0: enabled
	3	DDIS IF(SCTS)	0: reception ready
P006	4-7	not used	
	0	not used	-
	1	PCB check terminal	1: normal
	2	DDIS IF(OPTI1)	0: active
	3	DDIS IF(OPTO1)	0: active
	4	ADF sensor interrupt input	0: active
	5	copyboard open/closed sensor interrupt input 0	1: copyboard closed
6	HP sensor interrupt input	1: HP	
7	not used	-	

Address	bit	Description	Remarks
P007	0	address bus 16	-
	1	address bus 17	-
	2	address bus 18	-
	3-4	not used	-
	5	ADF pickup motor lock interrupt input	
	6	ADF read motor lock interrupt input	
	7	ADF delivery reversal motor lock interrupt input	
P008	0	lamp on signal	1: ON
	1	CCD drive on signal	1: ON
	2	wait sign	0: wait
	3	L light signal	0: active
	4	H light signal	0: active
	5	read signal	0: active
	6	ADF serial communication (LOAD)	0: enabled
P009	7	CPU clock output	-
	0	not used	
	1	shading RAM chip select	0: selected
	2	work RAM chip select	0: selected
	3	ASIC register select	0: selected
P009	4	ROM chip select	0: selected
	5-7	not used	

5.2.5 <FEEDER>

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Address	bit	Description	Notation	Remarks
P001	0	image lead edge signal		1: image lead edge
	1	pre-registration sensor	S2	1: original present
	2	OSC		
	3	not used		
	4	not used		
	5	delivery motor clock	P111	during output, alternately between '0' and '1'
	6	delivery motor PWM signal	M5	0: output present
P002	7	not used		
	0	belt motor phase A		during output, alternately between '0' and '1'
	1	belt motor phase B		during output, alternately between '0' and '1'
	2	belt motor phase A*		during output, alternately between '0' and '1'
	3	belt motor phase B*		during output, alternately between '0' and '1'
	4	separation motor PWM signal	M4	0: output present
	5	reversal motor phase A		during output, alternately between '0' and '1'
P003	6	separation motor reference Ref		
	7	reversal motor phase B		during output, alternately between '0' and '1'
	0	TxD0		
	1	not used		
	2	RxD0		
	3	not used		
	4	SCK0		
P004	5	EEPROM chip select		1: EEPROM selected
	6	not used		
	7	not used		
	0	not used		
	1	not used		
	2	original sensor	S6	0: original present
	3	original trail edge sensor	S7	1: original present
P004	4	24VP down detection		1: 17 V or less
	5	24VL down detection		1: 17 V or less
	6	13V down detection		1: 10 V or less
	7	manual feeder registration roller sensor	S9	1: original present
P005	0-2	not used		
	3	A/D conversion trigger		
	4-7	not used		

Address	bit	Description	Notation	Remarks
P006	0	DA load signal		1: transmit
	1	PICK1		
	2	PICK0		
	3	PICKSTBY		
	4	separation sensor	S4	0: original present
	5	sheet-to-sheet sensor		
	6	belt motor clock		
	7	post-registration roller sensor	S3	1: original present
P007	0	ADF open/closed detection	PI10	1: closed
	1	pre-reversal sensor	PI4	1: original present
	2	left cover rear sensor (rear)	PI3	1: closed
	3	not used		
	4	skew sensor	S5	1: original present
	5	separation clock		during output, alternately '0' and '1'
	6	reversal sensor	S1	1: original present
	7	reversal slave clock		during output, alternately '0' and '1'
P008	0	pickup roller HP sensor	PI7	1: HP
	1	pickup roller height position sensor 1	PI8	1: paper present
	2	pickup roller height position sensor 2	PI9	1: paper present
	3	left cover front sensor (front side)	PI6	1: closed
	4	not used		
	5	not used		
	6	delivery sensor	PI13	1: original present
	7	manual feeder original sensor	PI12	1: original present
P009	0	tray LED		1: ON
	1	reversal flapper solenoid	SL1	1: ON
	2	shutter solenoid	SL2	0: plunger pulled
	3	shutter solenoid		0: plunger returned
	4	belt motor fan ON signal	FM1	0: ON
	5	pre-reversal flapper solenoid	SL3	1: ON
	6	separation clutch	CL1	1: ON
	7	solenoid timer		0: 100msec
P010	0	pickup motor phase A		
	1	pickup motor phase B		
	2	pickup motor phase A*		
	3	pickup motor phase B*		
	4	not used		
	5	not used		
	6	not used		
	7	not used		
P011	0	delivery flapper solenoid	SL4	0: plunger pulled
	1	delivery flapper solenoid	SL4	0: plunger returned
	2	not used		
	3	sensor power supply (+5R) ON/OFF		1: 5V ON
	4-7	not used		
P012	0	7-segment LED (D)		
	1	7-segment LED (E)		
	2	7-segment LED (C)		
	3	7-segment LED (G)		
	4	7-segment LED (B)		
	5	7-segment LED (F)		
	6	7-segment LED (A)		
	7	not used		
P013	0	original width detecting switch (SW1)		
	1	original width detecting switch (SW2)		
	2	original width detecting switch (SW3)		
	3	original width detecting switch (SW4)		
	4	original width detecting switch (SW5)		
	5	push switch (SW2)		0: pressed
	6	push switch (SW3)		0: pressed
	7	push switch (SW4)		0: pressed

Address	bit	Description	Notation	Remarks
P014	0	DIP switch (DIPSW1)		0: ON
	1	DIP switch (DIPSW2)		0: ON
	2	DIP switch (DIPSW3)		0: ON
	3	DIP switch (DIPSW4)		0: ON
	4	DIP switch (DIPSW5)		0: ON
	5	DIP switch (DIPSW6)		0: ON
	6	DIP switch (DIPSW7)		0: ON
	7	DIP switch (DIPSW8)		0: ON
P015		separation clock F/V		hereafter, analog port
P016		delivery clock F/V		
P017		original sensor AD		
P018		original sensor AD		
P019		reversal motor current adjustment		
P020		belt motor power supply adjustment		
P021		original sensor adjustment		
P022		original trail edge sensor adjustment		
P023		separation sensor adjustment		
P024		skew sensor adjustment		
P025		pre-registration roller sensor adjustment		
P026		post-registration roller sensor adjustment		
P027		reversal sensor adjustment		
P028		manual feeder registration roller sensor adjustment		
P029		sensor Ref voltage adjustment		
P030		separation motor current limit adjustment		

5.2.6 <FEEDER>

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Address	bit	Description	Remarks
P001	0	read sensor	0: paper present
	1	registration sensor	1: paper present
	2	delivery reversal sensor	0: paper present
	3	ADF cover open/closed sensor	0: ADF open
	4-7	not used	
P002	0	delivery reversal motor current setting 1	
	1	delivery reversal motor current setting 2	
	2	release motor current setting 1	
	3	release motor current setting 2	
	4	stamp solenoid drive	1: ON
	5	clutch drive	1: ON
	6	original detection LED	1: on
	7	fan motor drive	1: ON
P003	0	pickup motor current setting CUT	
	1	pickup motor current setting CUT	
	2	locking motor current setting	
	3	transport motor mode setting	
	4	transport motor current setting 1	
	5	transport motor current setting 2	
	6	pickup motor current setting 1	
	7	pickup motor current setting 2	
P004	0	ADF cover closed/open sensor	0: ADF cover open
	1-6	not used	
	7	stamp present/absent	0: stamp present
P005	0	not used	
	1	release H sensor	1: released
	2	delivery reversal sensor	0: paper present
	3	post-separation sensor	0: paper present
	4	LGL sensor	1: paper present
	5	AB/inch sensor	1: AB
	6	not used	
	7	original placement sensor	0: paper present
P006	0-7	for R&D	
P007	0-7	for R&D	
P008	0-7	for R&D	
P009	0-7	for R&D	

Address	bit	Description	Remarks
P010	0-7	for R&D	
P011	0-7	for R&D	

5.2.7 <SORTER>

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Address	Bit	Description	Remarks	
P001	0	shift transport motor FG		
	1	buffer motor FG		
	2	punch motor FG		
	3	inlet motor FG		
	4	punch RX interrupt		
	5	punch TX interrupt		
	6	trimmer RX interrupt		
	7	trimmer TX interrupt		
	8	stack delivery clock		
	9	pre-buffer transport motor FG		
	10	not used		
	11	folding motor FG		
	12	saddle press motor encoder clock		
	13	saddle feed motor FG		
	14	saddle butting motor encoder clock		
15	saddle folding encoder clock			
P002	0	inserter output		
	1	download output		
	2	inserter input		
	3	download input		
	4	inserter reset		
	5	inserter mode		
	6	not used		
	7	not used		
	8	horizontal registration sensor		
	9	buffer No. 2 sensor		
	10	buffer sensor		
	11	dust sensor		
	12	not used		
	13	lower path sensor		
	14	sample tray ISA/paper surface		
15	stack tray ISA/paper surface			
P003	0	paper folding unit output		
	1	paper folding unit input		
	2	not used		
	3	power supply remote output	1: ON	
	4-7	not used		
	8	ASIC0 chip select		
	9	ASIC1 chip select		
	10	ASIC reset output	0: Reset	
	11	SST download mode		
	12	ASIC0 interrupt 1		
	13	ASIC1 interrupt		
	14	sample tray idle movement detection		
	15	ASIC0 interrupt 2		
	P004	0-3	address bus	
		4	not used	
5		delivery motor FG		
6		ARCNET-INT		
7		stack tray idle movement detection		
8		download hard latch command		
9		download hard latch input		
10		download latch release		
11		light signal (lower order)		
12		light signal (upper order)		
13		read signal		
14		not used		
15		clock output		

Address	Bit	Description	Remarks
P005	0	check LED	1: on
	1	SRAM chip select	0: selected
	2	not used	
	3	ROM chip select	0: selected
	4	ARCNET chip select	0: selected
	5-15	not used	
P006	0	swing motor speed setting (High)	
	1	swing motor speed setting (Middle)	
	2	swing motor speed setting (Low)	
	3	swing motor on*	0: ON
	4	knurled belt shift motor phase A	
	5	knurled belt shift motor phase B	
	6	knurled belt shift motor current switchover	
	7	not used	
	8	upper guide motor phase A	
	9	upper guide motor phase B	
	10	upper guide motor current switchover	
	11	not used	
	12	assist motor clock	
	13	assist motor CW	1: CCW
	14	assist motor current switchover 1	
15	assist motor current switchover 2		
P007	0	stack delivery motor clock	
	1	stack delivery motor CW	1: CCW
	2	stack delivery motor current switchover 1	
	3	stack delivery motor current switchover 2	
	4	conveyer motor phase A	
	5	conveyer motor phase B	
	6	conveyor motor current switchover	
	7-15	not used	
P008	0-15	not used	
P009	0-8	not used	
	9	upper guide HP sensor	1: HP
	10	knurled belt shift HP sensor	1: HP
	11	stack delivery motor 8FG	
	12	assist motor 8FG	
	13	saddle sub tray sensor	
	14	conveyer paper sensor 2	1: paper present
15	conveyer paper sensor 1	1: paper present	
P010	0	LED4 (for indication of presence of paper)	1: ON
	1	not used	
	2	saddle butting motor CCW	1: CW
	3	saddle butting motor CW	1: CCW
	4	saddle butting transport motor PWM	0: ON
	5	saddle folding transport motor PWM	0: ON
	6	saddle folding transport motor CCW	1: CW
	7	saddle folding transport motor CW	1: CCW
	8	saddle alignment motor phase A	
	9	saddle alignment motor phase B	
	10	saddle alignment motor current	1: retained
	11	saddle press motor PWM	0: ON
	12	saddle alignment motor phase A*	
	13	saddle alignment motor phase B*	
	14	not used	
15	not used		
P011	0	saddle press motor CCW	1: CW
	1	saddle press motor CW	1: CCW
	2	not used	
	3	not used	
	4	saddle stapler motor CCW	1: CCW
	5	saddle stapler motor CW	1: CW
	6-12	not used	
	13	LED1	1: ON
	14	not used	
	15	not used	

Address	Bit	Description	Remarks
P012	0-11	not used	
	12	saddle press motor clock sensor	
	13	saddle transport motor FG	
	14	SDL butting motor lock sensor	
	15	saddle folding motor clock sensor	
P013	0-7	not used	
	8	saddle press HP sensor	1: HP
	9	saddle press intermediate sensor	
	10	saddle lead edge stopper HP sensor	1: HP
	11	saddle alignment HP sensor	1: HP
	12	saddle lead edge path sensor	1: paper present
	13	saddle staple detection 2	1: staple present
	14	saddle staple detection 2	1: staple present
P014	15	saddle stapler HP sensor	1: HP
	0	rear alignment motor clock	
	1	rear alignment motor CW	
	2	rear alignment motor current switchover	
	3	not used	
	4	front alignment motor clock	
	5	front alignment motor CW	
	6	front alignment motor current switchover IH	
	7	not used	
	8	front bin shift motor phase A	
	9	front bin shift motor phase B	
	10	front bin shift motor current switchover	
	11	not used	
	12	trail edge motor phase A	
	13	trail edge motor phase B	
14	trail edge motor alignment switchover		
P015	15	handling tray solenoid	
	0	paddle lift motor phase A	
	1	paddle lift motor phase B	
	2	paddle lift motor current switchover	
	3	power-down (host standby mode)	
	4-7	not used	
	8	paddle rotation motor clock	
	9	paddle rotation motor CW	
	10	paddle rotation motor current switchover	
	11	not used	
	12	tray motor A	
	13	tray motor B	
	14	tray motor ON	
	15	check LED	1: on
	P016	0-7	not used
8		check SW8	
9		check SW7	
10		check SW6	
11		check SW5	
12		check SW4	
13		check SW3	
14		check SW2	
15		check SW1	
P017	0-2	not used	
	3	paddle lift HP sensor	1: HP
	4	shutter HP sensor	0: HP
	5	swing guide closed detection	0: Close
	6	swing guide open detention	1: HP
	7	tray HP sensor	1: HP
	8	paddle rotation HP sensor	1: HP
	9	swing motor clock sensor	
	10	rear alignment motor HP sensor	1: HP
	11	bin \$ sensor 2	
	12	handling tray paper sensor	0: paper present
	13	assist HP sensor	1: HP
	14	bin sensor 1	0: HP (bin HP)
	15	front alignment HP sensor	1: HP

Address	Bit	Description	Remarks
P018	0-3	not used	
	4	saddle lead edge stopper motor phase A	
	5	saddle lead edge stopper motor phase B	
	6	saddle lead edge stopper current	1: retained
	7	not used	
	8	saddle flapper solenoid 1	1: ON
	9	saddle flapper solenoid 2	1: ON
	10-15	not used	
P019	0	saddle pull-in roller shift motor phase A	
	1	saddle pull-in roller shift motor phase B	
	2	saddle pull-in roller shift motor current switchover	1: retained
	3	not used	
	4	saddle roller guide motor phase A	
	5	saddle roller guide motor phase B	
	6	saddle roller guide motor current switchover	1: retained
	7	not used	
	8	saddle transport motor clock	
	9	saddle transport motor CW	
	10	saddle transport motor current	
	11	saddle transport motor current	
	12	motor off signal	1: ON
	13-15	not used	
P020	0-15	not used	
P021	0-7	not used	
	8	saddle butting HP sensor	1: HP
	9	saddle vertical path sensor	1: paper present
	10	saddle pull-in roller HP sensor	1: HP
	11	saddle roller guide HP sensor	1: HP
	12	saddle stack delivery sensor	0: paper present
	13	saddle small sensor	0: paper present
	14	saddle inlet sensor	1: paper present
15	saddle roller guide HP sensor passage detection	1: HP passed	
P022	0	buffer motor clock	
	1	buffer motor CW	1: CCW
	2	buffer motor current switchover 1	
	3	buffer motor current switchover 2	
	4	trimmer remote signal	0: ON
	5	trimmer output spare	
	6	Z-fold roller drive motor clock	
	7	Z-fold drive motor ON	1: ON
	8	pre-buffer transport motor clock	
	9	pre-buffer transport motor CW	1: CCW
	10	pre-buffer transport motor current switchover 1	
	11	pre-buffer transport motor current switchover 2	
	12	inserter detachment	0: detached
	13	paper folding unit detachment	0: detached
	14	saddle detachment	1: detached
	15	not used	
P023	0	shift transport motor clock	
	1	shift transport motor CW	1: CCW
	2	shift transport motor current switchover 1	
	3	shift transport motor current switchover 2	
	4	not used	
	5	fan on signal	1: ON
	6	Z-fold release solenoid	1: ON
	7	Z-fold lock solenoid	1: ON
	8	Z-fold inlet flapper solenoid	1: ON
	9	Z-fold B4 No. 1 solenoid	1: ON
	10	A-fold B4 No. 2 solenoid	1: ON
	11	motor standby	1: operating
	12	inlet transport motor clock	
	13	inlet transport motor CW	1: CCW
	14	inlet transport motor ON signal	
15	inlet transport motor current switchover		

Address	Bit	Description	Remarks
P024	0	lower delivery sensor	1: paper present
	1	buffer No. 2 sensor	0: paper present
	2	horizontal registration sensor	0: paper present
	3	buffer path sensor	0: paper present
	4	shift unit trail edge sensor	1: paper present
	5	inlet sensor	1: paper present
	6	upper delivery sensor	1: paper present
	7	lower path sensor	0: paper present
	8	Z-fold path residual paper sensor 1	1: paper present
	9	Z-fold path residual paper sensor 2	1: paper present
	10	Z-fold path residual paper sensor 3	1: paper present
	11	Z-fold transport path paper sensor 1	1: paper present
	12	Z-fold transport path paper sensor 2	1: paper present
	13	Z-fold transport path paper sensor 3	1: paper present
	14	Z-fold transport path paper sensor 4	1: paper present
	15	horizontal registration HP sensor	1: HP
P025	0	stapler HP sensor	0: HP
	1	punch motor HP detection	1: HP
	2	punch front detection	1: rear; 0: front
	3	shift roller unit HP sensor	1: HP
	4	transport roller HP sensor	1: HP
	5	trail edge HP	1: HP
	6	professional puncher standby	
	7	professional puncher PUNCHENABLE signal	
	8	professional puncher PAERCOMACK signal	
	9	professional puncher PAPEREXIT signal	
	10	professional puncher door open	
	11	professional puncher connection detection	
	12	professional puncher connection detection	0: connected
	13	trimmer connection detection	0: connected
	14	not used	
	15	not used	
P026	0	paper surface sensor A/D input selector 1	
	1	paper surface sensor A/D input selector 2	
	2	paper surface sensor A/D input selector 3	
	3	not used	
	4	lower tray motor clock	
	5	lower tray motor CW	1: CW
	6	lower tray motor current switchover 1	
	7	lower tray motor current switchover 2	
	8	upper tray motor clock (sample tray)	
	9	upper tray motor CW (sample tray)	1: CW
	10	upper tray motor current switchover 1	
	11	upper tray motor current switchover 2	
	12	sub tray lifter solenoid	0: ON
	13	not used	
	14	stapler motor ON	
	15	stapler motor direction switchover	
P027	0	stapler shift motor clock	
	1	stapler shift motor CW	1: CW
	2	stapler shift motor current switchover	
	3	stapler shift motor current switchover	
	4	lower tray detachment	0: detached
	5	not used	
	6	inserter CONFIGSET	
	7	inserter FEEDREQ	
	8	7-segment DOT	1: on
	9	7-segment G	1: on
	10	7-segment F	1: on
	11	7-segment e	1: on
	12	7-segment d	1: on
	13	7-segment c	1: on
	14	7-segment b	1: on
	15	7-segment a	1: on

Address	Bit	Description	Remarks
P028	0	upper tray area sensor 1	1: light blocked
	1	upper tray area sensor 2	1: light blocked
	2	upper tray area sensor 3	1: light blocked
	3	upper tray area sensor 4	1: light blocked
	4	lower tray position sensor 1	1: light blocked
	5	lower tray position sensor 2	1: light blocked
	6	lower tray position sensor 3	1: light blocked
	7	lower tray position sensor 4	1: light blocked
	8	lower tray sensor	0: paper present
	9	lower tray paper surface sensor	0: paper present
	10	lower tray ISA sensor	0: paper present
	11	upper tray sensor	0: paper present
	12	upper tray paper surface sensor	0: paper present
	13	upper tray ISA sensor	0: paper present
	14	rib guide safety detection	1: detected
15	tray approach switch	0: detected	
P029	0	upper tray paper sensor	1: paper present
	1	lower tray paper sensor	1: paper present
	2	waste staple case full detection 1	1: not set/full
	3	puncher unit detection	0: present
	4	stapling position 1	1: OK
	5	stapling position 2	1: OK
	6	stapling position 3	1: OK
	7	stapling position 4	1: OK
	8	stapler slide HP	
	9	stapler 24V down detection	1: 24V OFF
	10	READY detection	1: Ready
	11	staple absent detection	0: staple absent
	12	inserter SENSON	
	13	inserter serial error	
	14	inserter connector detection	1: connected
15	not used		
P030	0	assist roller shift solenoid 1	1: ON
	1	upper path switchover solenoid	1: ON
	2	punch PWM	
	3	saddle path switching solenoid	1: ON
	4	delivery motor clock	
	5	delivery motor CW/CCW	1: CCW
	6	delivery motor current switchover 1	
	7	delivery motor current switchover 2	
	8	horizontal registration shift motor clock (1-2 phase)	
	9	horizontal registration motor CW/CCW	1: CCW
	10	horizontal registration shift motor current switchover 1	
	11	horizontal registration shift motor current switchover 2	
	12	transport roller shift motor phase A	
	13	transport roller shift motor phase B	
	14	transport roller shift motor current switchover 1	
15	transport roller shift motor current switchover 2		
P031	0	horizontal registration detection motor phase A	
	1	horizontal registration detection motor phase B	
	2	horizontal registration detection motor current switchover 1	
	3	horizontal registration detection motor current switchover 2	
	4	horizontal registration detection motor phase A*	
	5	horizontal registration detection motor phase B*	
	6	buffer path switchover solenoid	1: ON
	7	not used	
	8	punch motor on signal	PCH-M-CW
	9	punch motor direction switchover	PCH-M-CCW
	10	5V power-down	0: power-down
	11	not used	
	12	professional puncher MACHINEON	
	13	professional puncher PAPERLATCH	
	14	professional puncher PAPERENTRY	
15	professional puncher PAPEREXITACK		

Address	Bit	Description	Remarks
P032	0	check SW8	
	1	check SW7	
	2	check SW6	
	3	check SW5	
	4	check SW4	
	5	check SW3	
	6	check SW2	
	7	check SW1	
	8	puncher check 2	
	9	puncher check 1	
	10	puncher check 0	
	11	for adjustment 0	
	12	for adjustment 1	
	13	for adjustment 2	
	14	for adjustment 3	
	15	for adjustment 4	
P033	0	push switch (for ENTER)	not used
	1	push switch (for +)	0: pushed
	2	push switch (for -)	0: pushed
	3	fold transport motor FG	
	4	pre-buffer transport FG	
	5	door 24V power-down detection	1: power-down
	6	punch 2-hole/3-hole detection	1: 3-hole; 0: 2-hole
	7	punch waste case set detection	1: set
	8	front door open detection	0: open
	9	punch fan error	1: error
	10	upper cover open detection	0: open
	11	power supply fan error	1: error
	12	Z-fold path set detection	1: present
	13	Z-fold unit upper cover open detection	0: open
	14	folding unit connection detection	0: connected
15	saddle unit connection detection	0: connected	
P045		horizontal registration sensor	analog output
P046		buffer No. 2 sensor	
P047		buffer sensor	
P048		waste sensor	
P049		not used	
P050		lower path sensor	
P051		sample tray ISA/paper surface	
P052		stack tray ISA/paper surface	
P053		not used	
P054		punch waste case full sensor adjustment	
P055		sample tray ISA sensor adjustment	
P056		buffer path 2 adjustment	
P057		horizontal registration sensor adjustment	
P058		buffer path sensor adjustment	
P059		swing guide adjustment	
P060		lower path sensor adjustment	
P061-P063		not used	
P064		stack tray ISA sensor adjustment	
P065-P067		not used	

5.2.8 <MN-CONT>

iR7105 / iR7095 / iR7086 /

Address	Bit	Description	Remarks
P001	0-15	for R&D	
P002	0-3	reader multi-purpose signal	
	3	reader power signal	
	4	printer start-up signal	
	5-7	printer multi-purpose signal	
	8	reader start-up signal	
	9	printer power signal	
	10-15	for R&D	

Address	Bit	Description	Remarks
P003	0-5	for R&D	
	6	not used	
	7-15	for R&D	
P004	0-15	for R&D	
P005	0-9	for R&D	
	10	control panel connection (for MFP model)	0: connected
	11	control panel connection (for printer model)	0: connected
	12-15	for R&D	
P006-P016		not used	

5.3 ADJUST (Adjustment Mode)


5.3.1 COPIER

5.3.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /


<AE>

T-5-16

COPIER > ADJUST > AE		
Sub item	Description	Level
AE-TBL	Use it to adjust the character density for image density adjustment. range: 1 to 9 A higher setting will increase the density of characters. A lower setting will decrease the density of characters.  Be sure to enter the value indicated on the service label if you have initialized the RAM on the reader controller PCB.	1

<ADJ-XY>

T-5-17

COPIER > ADJUST > ADJ-XY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model). **: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
Use it to adjust the image read start position.  Be sure to enter the value indicated on the service label if you have replaced the reader controller PCB or initialized the RAM.		
ADJ-X	Use it to adjust the image read start position (image lead edge) in sub scanning direction. range: 1 to 423 * / 1 to 2970 ** An increase by '1' will shift the image read start position by 0.1 mm toward the trail edge.	1
ADJ-Y	Use it to adjust the image read start position (horizontal registration) in main scanning direction. range: 1 to 423 * / 0 to 1000 ** An increase by '1' will shift the image read start position by 0.1 mm toward the front.	1
ADJ-S	Use it to adjust the shading correction data measurement position. range: 20 to 500 * / 0 to 4 ** A change by '1' will increase the image read start position by 0.1 toward the front.	1
ADJ-Y-DF	main scanning position adjustment or ADF stream reading range: 1 to 423 * / 0 to 1000 ** A change by '1' will increase the image read start position by 0.1 toward the front.	1
STRD-POS **	Use it to adjust the CCD read position for ADF stream reading mode. range: 1 to 200	1
ADJ-Y-FX *	Use it to adjust the main scanning position for ADF fixed reading mode. range: 1 to 423 A change by '1' will shift the image read start position by 0.1 mm toward the front.	1
ADJ-X-MG	Use it to fine-adjust the sub scanning magnification for copyboard mode. range: -50 to +50 (unit: 0.01%)	1

<CCD>

T-5-18

COPIER > ADJUST > CCD		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model). **: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
CCD, shading-related adjustment		
SH-TRGT	Use it to enter the white level target value for shading correction. Procedure Execute the following: COPIER > FUNCTION > CCD > CCD-ADJ, LUT-ADJ (LUT-ADJ2). Thereafter, if an image fault occurs, enter the value indicated on the service label. range: 1 to 2043	1

COPIER > ADJUST > CCD		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
CCD, shading-related adjustment		
DFTAR-G **	Use it to enter the shading target value for green for ADF mode. Procedure Execute the following: COPIER > FUNCTION > CCD > DF-WLVL1/DF-WLVL2. Thereafter, if an image fault occurs, enter the value indicated on the service label. range: 0 to 2047	1





<LASER>

T-5-19

COPIER > ADJUST > LASER		
Sub item	Description	Level
Laser output adjustment		
PVE-OFST	Use it to adjust the laser A/C emission position. range: -300 to 300 A higher setting will cause a move toward the rear. A lower setting will cause a move toward the front. The laser B emission position moves in keeping with laser A, while the laser D emission position moves in keeping with laser C.	1
LA-PWR-A	Use it to enter the laser A power adjustment value. range: 0 to 255	1
LA-PWR-B	Use it to enter the laser B power adjustment value. range: 0 to 255	1
LA-PWR-C	Use it to enter the laser C power adjustment value. range: 0 to 255	1
LA-PWR-D	Use it to enter the laser D power adjustment value. range: 0 to 255	1


<DEVELOP>

T-5-20

COPIER > ADJUST > DEVELOP		
Notes: At times, the value indicated for the following items may differ before and after input (maximum of +/-3). The fact has to do with how the indication values are computed, and will not affect the operation of the machine.		
Sub item	Description	Level
DE-DC	Use it to enter the developing DC bias output value for when an image is being formed. range: 0 to 600	1
DE-NO-DC	Use it to enter the developing DC bias output value for when no image is being formed. range: 0 to 600	1
HVT-DE	Use it to enter the offset value for the developing high-voltage output of the high-voltage unit. range: -50 to 50  Be sure to enter the value indicated on the label attached to the new unit if you have replaced the high-voltage unit. Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
D-HV-DE	Use it to enter the offset value for the developing high-voltage of the DC controller PCB. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new PCB if you have replaced the DC controller PCB. Be sure to enter the value indicated on the service label if you have initialized the RAM on the DC controller PCB.	1
OFFSETDA	Use it to enter the high-voltage D/A output offset value for the developing AC bias. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new PCB if you have replaced the DC controller PCB. Be sure to enter the value indicated on the service label if you have initialized the RAM on the DC controller PCB.	1
OFFSETAC	Use it to adjust the offset value of the developing AC bias. range: -120 to 120  Be sure to enter the value indicated on the label attached to the new unit if you have replaced the high-voltage unit. Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1


<DENS>

T-5-21

COPIER > ADJUST > DENS		
Sub item	Description	Level
DENS-ADJ	Use it to correct the image density.	1
	Correct the F-value table if fogging occurs or a faint image occurs in a high-density area. A higher setting will reduce faint images. A lower setting will reduce fogging. range: 1 to 9  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	


<BLANK>

T-5-22

COPIER > ADJUST > BLANK		
Sub item	Description	Level
 Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.		
BLANK-T	Use it to enter the image lead edge non-image width adjustment value. range: 0 to 2362 A higher setting will increase the non-image width.	1
	BLANK-B	
BLANK-TE	Use it to enter a value of the non-image width in image main scanning direction (left, right). range: 10 to 50 Notes: If you have changed BLANK-B and BLANK-TE, the higher setting will be given priority.	1


<V-CONT>

T-5-23

COPIER > ADJUST > V-CONT		
Sub item	Description	Level
 Enter the value indicated on the service label if you have replaced the DC controller PCB, initialized the RAM, or replaced the potential sensor (EPOTOFST only).		
EPOTOFST	Use it to enter the offset value of the potential sensor. range: 0 to 30	1
	VL-OFST	
VD-OFST	Use it to enter the offset value of the potential control dark area target potential. range: -50 to 50	1
	DE-OFST	
OHP-OFST	Use it to enter the offset value of transparency potential control. range: -50 to 50	1
	VD-OFS-O	


<HV-PRI>







T-5-24

COPIER > ADJUST > HV-PRI		
Sub item	Description	Level
GRID	Use it to enter the adjustment value for the primary charging assembly grid current. range: 400 to 900	1
	 Use it to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	

<HV-TR>





T-5-25

COPIER > ADJUST > HV-TR		
Sub item	Description	Level
Notes: At times, the indicated value for the fogging items may differ before and after input (maximum of +/-3). The fact has to do with the way indicated values are computed, and will not affect the operation of the machine.		
TR-N1	Use it to enter the output adjustment value of the transfer charging current. (simplex mode, plain paper; or 1st side of double-sided print) range: -650 to 0	1
	 Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	

COPIER > ADJUST > HV-TR		
Sub item	Description	Level
Notes: At times, the indicated value for the fogging items may differ before and after input (maximum of +/-3). The fact has to do with the way indicated values are computed, and will not affect the operation of the machine.		
TR-N2	Use it to enter the output adjustment value of the transfer charging current. (plain paper, 2nd side of double-sided print) range: -650 to 0  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
PRE-TR	Use it to enter the output adjustment value of the pre-transfer charging current. range: 0 to 300  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
HVT-TR	Use it to enter the offset value of the transfer high-voltage output for the high-voltage unit. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new unit if you have replace the high-voltage unit. Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
H-PRE-TR	Use it to enter the offset voltage of the pre-transfer output for the high-voltage unit. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new unit if you have replace the high-voltage unit. Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
D-PRE-TR	Use it to enter the offset value of the pre-transfer high-voltage output or the DC controller PCB. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new PCB if you have replaced the DC controller PCB. Be sure to enter the value indicated on the service label if you have initialized the RAM on the DC controller PCB.	1
D-HV-TR	Use it to enter the offset value of the transfer high-voltage output for the DC controller PCB. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new PCB if you have replaced the DC controller PCB. Be sure to enter the value indicated on the service label if you have initialized the RAM on the DC controller PCB.	1

<HV-SP>


T-5-26

COPIER > ADJUST > HV-SP		
Sub item	Description	Level
Notes: At times, the indicated value for the following items may differ before and after input (maximum of +/-3). The fact has to do with the way indicated values are computed, and will not affect the operation of the machine.		
SP-N1	Use it to enter the output adjustment value of the separation charging current. (plain paper, simplex mode; or, 1st side of double-sided print) range: 0 to 800  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
SP-N2	Use it to enter the output adjustment value of the separation charging current. (plain paper, 2nd side of double-sided print) range: 0 to 800  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
HVT-SP	Use it to enter the offset value of the separation high-voltage output for the high-voltage unit. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new unit if you have replace the high-voltage unit. Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	1
D-HV-SP	Use it to enter the offset value of the separation high-voltage output for the DC controller PCB. range: -100 to 100  Be sure to enter the value indicated on the label attached to the new PCB if you have replaced the DC controller PCB. Be sure to enter the value indicated on the service label if you have initialized the RAM on the DC controller PCB.	1

<FEED-ADJ>


T-5-27

COPIER > ADJUST > FEED-ADJ		
Sub item	Description	Level
REGIST	Use it to adjust the timing at which the registration roller clutch goes on.	1
	A higher setting will delay the timing at which the registration roller clutch goes on, thus decreasing the lead edge margin. range: -100 to 100 (unit: 0.1 mm)	

COPIER > ADJUST > FEED-ADJ		
Sub item	Description	Level
ADJ-REFE	Use it to adjust the horizontal registration for re-pickup.	1
	Increase the value if the image is displaced to the front. range: -100 to 100 (unit: 01 mm)  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM.	

<CST-ADJ>

T-5-28

COPIER > ADJUST > CST-ADJ		
Sub item	Description	Level
Use it to make adjustments related to the cassette/manual feeder tray.  Be sure to enter the value indicated on the service label if you have replaced the DC controller PCB or initialized the RAM. Be sure to execute FUNCTION>CST if you have replaced the paper width detecting VR. (C-3STMTR/A4R, C4-STMTR/A4R, MF-A4R/A6R/A4)		
C3-STMTR	Use it to enter the paper width basic value for cassette 3. (STMTR) range: 0 to 255	1
C3-A4R	Use it to enter the paper width basic value for cassette 3. (A4R) range: 0 to 255	1
C4-STMTR	Use it to enter the paper width basic value for cassette 4. (STMTR). range: 0 to 255	1
C4-A4R	Use it to enter the paper width basic value for cassette 4. (A4R) range: 0 to 255	1
MF-A4R	Use it to enter the paper width basic value for the manual feeder tray. (A4R) range: 0 to 255	1
MF-A6R	Use it to enter the paper width basic value for the manual feeder tray. (A6R) range: 0 to 255	1
MF-A4	Use it to enter the paper width bias value for the manual feeder tray. (A4) range: 0 to 255	1
C3-LVOL	Use it to enter the capacity of cassette 3. (50 sheets) range: 0 to 255	1
C3-HVOL	Use it to enter the capacity of cassette 3. (250 sheets) range: 0 to 255	1
C4-LVOL	Use it to enter the capacity of cassette 4. (50 sheets) range: 0 to 255	1
C4-HVOL	Use it to enter the capacity of cassette 4. (250 sheets) range: 0 to 255	1

<EXP-LED>

T-5-29

COPIER > ADJUST > EXP-LED		
Sub item	Description	Level
PRE-TR	Use it to enter the output adjustment value of the pre-transfer exposure. range: 20 to 80	1

5.3.2 FEEDER

5.3.2.1 FEEDER Items

iR7105 / iR7095 / iR7086 /

<ADJUST>

T-5-30

FEEDER > ADJUST		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
DOCST	Use it to adjust the original stop position for ADF mode (pickup from the original tray).	1
	range: -30 to 30 (unit: 0.5 mm) A higher value decreases the lead edge margin. <Procedure> 1) Place the original in the original tray. 2) Select the item, and enter the appropriate value; then, press the OK key. 3) Press the OK key so that the original will be picked up. 4) Open the ADF, and check the original stop position. 5) Press the OK key so that the original is delivered.	
DOCST-M *	Use it to adjust the original stop position for ADF mode (pickup from the manual feeder tray).	1
	range: -30 to 30 (unit: 0.5 mm) Use the same procedure used for FEEDER > ADJUST > DOCST.	
LA-SPEED	Use it to adjust the original transport speed for ADF stream reading mode.	1
	A higher setting will increase the speed. range: -30 to 30 (unit: 0.1%)	
STRD-S *	Use it to adjust the scanner stop position for stream reading mode (small-size).	1
	range: -25 to 25 (unit: 0.1 mm)	
STRD-L *	Use it to adjust the scanner stop position for stream reading mode (large-size).	1
	range: -25 to 25 (unit: 0.1 mm)	
RVM-SPD *	Use it to adjust the speed of the reversal motor.	2
	A higher setting will increase the speed. range: -30 to 30 (unit: 0.1%)	

5.3.3 SORTER**5.3.3.1 SORTER Items**

iR7105 / iR7095 / iR7086 /

T-5-31

SORTER > ADJUST		
Sub item	Description	Level
PNCH-HLE	Not used	1
PNCH-Y	Use it to adjust the punch hole position (rear/front). range: -5 to 5 (unit: 0.45 mm)	1

5.4 FUNCTION (Operation/Inspection Mode)

5.4.1 COPIER

5.4.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /

<INSTALL>

T-5-32

COPIER > FUNCTION > INSTALL		
Sub item	Description	Level
TONER-S	Use it to stir the toner inside the developing assembly at time of installation.	1
	Procedure 1) Select the item to highlight. 2) The message "Check the Developer" appears. Check to make sure that the connector of the developing assembly is connected. 3) Press the OK key to start the operation. The machine will stop automatically when a specific count has been taken. Notes: The message "Check the Developer" is used to prevent disconnection of the connector that could otherwise occur when mounting the developing assembly.	
CARD	Use it to make card reader settings as part of installation work.	1
	Procedure Enter a number between 1 and 2001, and press the OK key. (As many as 1000 cards may be used starting with the one bearing the number you enter.) At this time, the machine initializes the card control information (group ID and ID number).	
E-RDS	Use it to make E-RDS settings (embedded RDS).	1
	Range 0: disable RDS (off); 1: enable RDS (transmit all counter information)	
RGW-PORT	Use it to set the port number for the server used by E-RDS.	1
	range: 1 to 65535	
COM-TEST	Use it to check the connection to the server used for E-RDS.	1
	1) Select the item to highlight, and press the OK key. 2) Check the result expressed in OK or NG.	
COM-LOG	Use it to indicate the details of the result of a test executed on the communication with the server used for E-RDS.	1
	Procedure 1) Select the item to highlight, and press an information item. history particulars: calendar, date, time, error code, error details (128 characters max.)	
RGW-ADR	Use it to specify the URL of the server used for E-RDS.	1
	Procedure 1) Select the item to highlight, and press an information item. 2) When the URL input screen appears, press the OK key. (default: https://a01.ugwdevice.net/ugw/agentif010)	

<CCD>

T-5-33

COPIER > FUNCTION > CCD		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
CCD-ADJ	Use it to execute CCD auto adjustment.	1
	<Procedure> 1) Place 10 or more sheets of paper on the copyboard glass. (Make sure the paper is the whitest of all used by the user but is not one for color printing). 2) Select 'CCD-ADJ' to highlight, and press the OK key. 3) See that auto adjustment takes place (about 15 sec), during which 'ACTIVE' appears in the upper right of the screen. 4) See that the LED (scanning lamp) goes on twice in the course of the adjustment and the screen indicates 'OK!' to end the adjustment. 5) All items under COPIER > ADJUST > CCD will be updated. Print out a service sheet for future reference.	
LUT-ADJ *	Use it to execute CCD gain abridged correction.	1
	<Procedure> 1) Select the item, and press the OK key so that auto adjustment takes place. 2) See that adjustment ends automatically. 3) The items under COPIER>ADJUST>LAMP, COPIER>ADJUST>CCD in service mode are updated. Print out a service sheet for future reference.	
DF-WLVL1 ** DF-WLVL2 **	Use it to adjust the ADF white level.	1
	<Procedure> 1) Place paper on the copyboard glass, and execute DF-WLVL1. (Make sure that the paper is a type used by the user.) -> The machine will read the white level used for copyboard mode (i.e., checks the transmissivity of the copyboard glass). 2) Place paper in the ADF, and execute DF-WLVL2. (Make sure that the paper is a type used by the user.) -> The machine reads the white level used for ADF stream reading mode (i.e., to check the transmissivity of the stream reading glass). Be sure to execute the foregoing always in combination in the correct order, i.e., DF-WLVL1 and then DF-WLVL2.	
LUT-ADJ2 *	Use it to fine-adjust the CCD gain.	2
	Use it if the difference, if any, in density cannot be corrected using LUT-ADJ (CCD gain abridged correction). <Procedure> 1) Place the 10-gradation chart (D-10 Test Sheet) on the copyboard glass. 2) Select the item, and press the OK key so that auto adjustment takes place. 3) See that the machine ends the adjustment automatically. 4) The items under COPIER > ADJUST > LAMP, COPIER > ADJUST > CCD are updated. Print out a service sheet for future reference.	

<LASER>

T-5-34

COPIER > FUNCTION > LASER		
Sub item	Description	Level
POWER-A/B/ C/D	Use it to turn on the laser (A, B, C, D).	1
	<Procedure> 1) Select the item, and press the OK key. 2) See that the laser goes on, and 'STRWT' -> 'ACTIVE' appears. 3) See that the laser goes off in about 60 sec automatically and 'OK!' appears.	

<DPC>

T-5-35

COPIER > FUNCTION > DPC		
Sub item	Description	Level
OFST	Use it to adjust the offset of the potential sensor.	1
	Do not execute this item on its own. It is part of a series of operations performed when replacing the potential sensor unit. <Procedure> 1) Select the item, and press the OK key so that offset adjustment takes place. 2) See that the machine ends the adjustment automatically.	

<CST>

T-5-36

COPIER > FUNCTION > CST		
Sub item	Description	Level
Use it to execute size auto adjustment of the cassette/manual feeder tray.		
C3-STMTR C3-A4R C4-STMTR C4-A4R	Use it to register the paper width basic value for cassette 3/4. STMTR width: 139.5 mm; A4R width: 210 mm	1
	<Procedure> 1) Place paper in the cassette, and adjust the side guide plate to suit the width of the paper. 2) Select the item, and press the OK key. The value will be registered at the end of the adjustment. Notes: If fine-adjustment is needed after registration of the basic value, use ADJUST > CST-ADJ > C3-STMTR, C3-A4R, CR-STMTR, C4-A4R.	
MF-A4R MF-A6R MF-A4	Use it to register the paper width basic value of the manual feeder tray. A4R width: 210 mm; A6R width: 105 mm; A4 width: 297 mm	1
	<Procedure> 1) Place paper in the manual feeder tray, and adjust the guide to suit the width of the paper. 2) Select the item, and press the OK key. The value will be registered at the end of the adjustment. Notes: If fine-adjustment is needed after registration of the basic value, use ADJUST > CST > ADJ > MF-A4R, MF-A6R, MF-A4.	

<CLEANING>

T-5-37

COPIER > FUNCTION > CLEANING		
Sub item	Description	Level
WIRE-CLN	Use it to execute auto cleaning of the charging wire.	1
	Execute the item after replacing the primary charging wire or the transfer charging wire. <Procedure> 1) Select the item, and press the OK key so that wire cleaning starts (5 trips). 2) See that the machine stops automatically when cleaning is done.	

<FIXING>

COPIER > FUNCTION > FIXING		
Sub item	Description	Level
NIP-CHK	Use it to adjust the fixing nip width.	1
	Make test prints for measurement of the fixing nip width. <Procedure> 1) Make about 20 A4 prints using the test sheet. 2) Place A4 paper in the manual feeder tray. 3) Select the item, and press the OK key. The paper will be stopped at the fixing nip area, and then discharged in about 20 sec. 4) Measure the nip. (The points of reference are 10 mm from the edges of the paper.) <div style="text-align: center;"> </div> b = 100V/200V: 9.0mm +/- 0.5mm 208/230V: 10.0mm +/- 0.5mm a-c =0.5mm or less	

<PANEL>

COPIER > FUNCTION > PANEL		
Sub item	Description	Level
LCD-CHK	Use it to check for missing dots. <Procedure> 1) Select the item, and press the OK key so that the LCD will go on in the following sequence: white, black, red, green, blue. 2) Press the stop key to stop the operation.	1
LED-CHK	Use it to check the activation of the LEDs on the control panel. Use it to check the activation of the LEDs on the control panel. 1) Select the item, and press the OK key so that the LEDs will go on in sequence. 2) Select LED-OFF to stop the operation.	1
LED-OFF	Use it to check the activation of the LEDs on the control panel (to stop). <Procedure> 1) Select the item to stop LED-CHK operation.	1
KEY-CHK	Use it to check key inputs. <Procedure> 1) Select the item so that the number/name of a specific input key appears. 2) Press a key to check. If normal, the corresponding character will appear on the LCD. (See the table.) 3) Select the item once again to stop the operation.	1
TOUCHCHK	Use it to adjust the coordinates of the LCD. Execute this item if you have replaced the control panel so that specific points on the LCD will match specific coordinates. <Procedure> 1) Select the item, and press the OK key. 2) Press the 9 +s that appear in sequence on the LCD.	1

<Input Key Names and Screen Indications>

Key	Indications	Key	Indications	Key	Indications
0 to 9, #, *	0 to 9, #, *	Initial Setup/Register	USER	Authenticate	ID
Reset	RESET	Start	START	Help	?
Stop	STOP	Clear	CLEAR	Check Counter	BILL

<PART-CHK>

COPIER > FUNCTION > PART-CHK		
Sub item	Description	Level
CL	Use it to specify the clutch whose operation you want to check. (settings: 1 to 21) <Procedure> 1) Select the item. 2) Type in the appropriate number using the keypad. 3) Press the OK key.	1
CL-ON	Use it to start a check on the operation of a clutch. <Procedure> 1) Select the item, and press the OK key so that the clutch repeatedly goes on and off as follows: on for 05 sec -> off for 10 sec -> on for 0.5 sec -> off for 10 sec -> on for 0.5 speed -> off	1
MTR	Use it to select a motor whose operation you want to check. (settings: 1 to 13) <Procedure> 1) Select the item. 2) Type in the appropriate number using the keypad. 3) Press the OK key.	1

COPIER > FUNCTION > PART-CHK		
Sub item	Description	Level
MTR-ON	Use it to start a check on the operation of a motor. <Procedure> 1) Select the item, and press the OK key. - on for 20 sec -> off - if buffer motor or duplexing horizontal registration motor, on for 10 sec -> off - if shift tray motor, stops at front/rear HP - if vibration motor (M10/M20), repeats on and off at intervals of about 5 sec	1
SL	Use it to select the operation of a solenoid. <Procedure> 1) Select the item. 2) Enter the appropriate number using the keypad. 3) Press the OK key.	1
SL-ON	Use it to start a check on the operation of a solenoid. <Procedure> 1) Select the item, and press the OK key. on for 0.5 sec -> off for 5 sec -> on for 0.5 sec -> off for 5 sec, on for 0.5 sec -> of	1

<Clutch>

Code	Name	Code	Name	Code	Name
1	manual feeder tray pickup clutch (CL7)	8	deck (left) pickup clutch (CL11)	15	registration brake clutch (CL3)
2	cassette 3 pickup clutch (CL12)	9	vertical path 2 clutch (CL9)	16	manual feeder tray transport clutch (CL18)
3	vertical path 3 clutch (CL13)	10	pre-registration clutch (CL5)	17	buffer inside magnet roller drive clutch (CL1)
4	cassette 4 pickup clutch (CL14)	11	lower transport middle clutch (CL16)	18	developing cylinder clutch (CL4)
5	vertical path 4 clutch (CL15)	12	lower transport right clutch (CL17)	19	registration roller clutch (CL2)
6	deck (right) pickup clutch (CL10)	13	deck (left) transport clutch (CL19)	20	side paper deck transport clutch (CL101)
7	vertical path 1 clutch (CL8)	14	delivery speed switchover clutch (CL21)	21	side paper deck pickup clutch (CL102)

<Motor>

Code	Name	Code	Name
1	drum motor (M0)	8	horizontal registration motor (M15)
2	main motor (M1)	9	duplexing reversal motor (M11)
3	pickup motor (M2)	10	duplexing transport motor (M12)
4	fixing motor (M3)	11	deck main motor (M101)
5	laser scanner motor (M4)	12	vibration motor1 (M10)
6	sub hopper inside toner feed motor (M22)	13	vibration motor2 (M20)
7	buffer motor (M18)		

<Solenoid>

Code	Name	Code	Name
1	deck (right) pickup solenoid (SL7)	7	delivery flapper solenoid (SL3)
2	deck (left) pickup solenoid (SL8)	8	reversal flapper solenoid (SL11)
3	deck 3 pickup solenoid (SL9)	9	fixing web solenoid (SL2)
4	cassette 4 pickup solenoid (SL10)	10	fixing feed unit lock solenoid (SL4) lock
5	manual feed pickup clutch solenoid (SL6) (The manual feeder pickup roller moves up.)	11	fixing transport unit lock solenoid (SL4) unlock
		12	not used
6	manual feeder pickup clutch solenoid (SL6) (The manual feeder pickup roller moves down.)	13	side paper deck pickup solenoid
		14	not used

<CLEAR>

T-5-41

COPIER > FUNCTION > CLEAR		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
ERR	Use it to reset an error code. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then on the main power.	1
DC-CON	Use it to initialize the RAM on the DC controller PCB. The RAM will be initialized when the main power is turned off and then back on. <Procedure> 1) Print out the particulars of service mode by making the following selections: COPIER > FUNCTION > MISC-P > P-PRINT. 2) Select the item, and press the OK key. 3) Turn off and then back on the main power. 4) As necessary, enter the data printed out using P-PRINT.	1

COPIER > FUNCTION > CLEAR		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
R-CON	Use it to initialize the RAM on the reader controller PCB.	1
	<Procedure> 1) Print out the particulars of service mode by making the following selections: COPIER>FUNCTION>MISC-P>P-PRINT. 2) Select the item, and press the OK key. 3) Turn off and then back on the main power. 4) As necessary, enter the data printed using P-PRINT.	
JAM-HIST	Use it to reset the jam history.	1
	The jam history will be reset when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
ERR-HIST	Use it to reset the error code history.	1
	The error code history will be reset when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
PWD-CLR	Use it to reset the password for 'system administrator' set in user mode.	1
	The password will be reset when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
ADRS-BK	Use it to reset the address book data.	1
	The address book data will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power switch.	
CNT-MCON	Use it to reset the service counter controlled by the main controller PCB.	1
	The counter will be reset when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
CNT-DCON	Use it to reset the service counter controlled by the DC controller PCB.	1
	The counter will be reset when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
OPTION **	Use it to initialize the RAM on the reader controller PCB. (items under COPIER>OPTION only)	1
	The RAM will be initialized when the OK key is pressed. <Procedure> 1) Select the item, and press the OK key.	
MMI	Use it to reset user mode settings. - backup data for copier control panel (user settings) - backup data for common settings (user settings) - various backup data (user settings)	1
	The settings will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the power.	
MN-CON	Use it to initialize the RAM on the main controller PCB.	1
	<Procedure> 1) Print out the particulars of service mode by making the following selections: COPIER > FUNCTION > MISC-P > P-PRINT. 2) Select the item, and press the OK key. 3) Turn off and then back on the main power. 4) As necessary, enter the data printed out using P-PRINT.	
CARD	Use it to reset the data related to the card ID (group).	1
	The data will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turns off and then back on the main power.	
ALARM	Use it to reset the alarm log.	1
	The log will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power.	
SLT-CLR	Use it to reset the salutation setting.	1
	<Procedure> 1) Select the item, and press the OK key.	
LANG-ERR	Use it to reset a language-related error.	1
	The error will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power.(resets to the default language)	
ERDS-DAT	Use it to reset the E-RDS-related settings.	1
	<Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power.	

COPIER > FUNCTION > CLEAR		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
SND-STUP	Use it to reset the transmission read settings.	2
	The settings will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power.	
CA-KEY	Use it to reset the CA certificate and key.	2
	The certificate and key will be reset when the main power is turned off and then back on. <Procedure> 1) Select the item, and press the OK key. 2) Turn off and then back on the main power.	

<MISC-R>


T-5-42

COPIER > FUNCTION > MISC-R		
Sub item	Description	Level
SCANLAMP	Use it to turn on the scanning lamp.	1
	<Procedure> 1) Select the item. 2) Press the OK key so that the scanning lamp goes on and remains on for about 3 sec.	

<MISC-P>

T-5-43

COPIER > FUNCTION > MISC-P		
Sub item	Description	Level
P-PRINT	Use it to print out the settings of service mode.	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
KEY-HIST	Use it to print out control panel key inputs.	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
HIST-PRT	Use it to print out a jam and error history.	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
TRS-DATA	Use it to move data received in memory to a Box.	1
	<Procedure> 1) Select the item. 2) Press the OK key to move the data.	
USER-PRT	Use it to print out the settings of service mode.	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
LBL-PRNT	Use it to print out the service label.	1
	<Procedure> 1) Place A4/LTR paper in cassette 1. 2) Select the item. 3) Press the OK key to obtain a printout.	
PRE-EXP	Use it to check the activation of the pre-exposure lamp (LED).	1
	<Procedure> 1) Select the item to highlight. 2) Press the OK key so that individual operations take place for several seconds and end. (all LEDs ON) 3) Press the OK key to obtain a printout.	
ENV-PRT	Use it to print out the data on the history of changes that have taken place in the machine inside temperature/humidity and fixing temperature.	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
PJH-P-1	Use it to print out the data on the history of print jobs with details. (most recent 100 jobs)	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
PJH-P-2	Use it to print out the data on the history of print jobs with details. (all jobs)	1
	<Procedure> 1) Select the item. 2) Press the OK key to obtain a printout.	
P-TR-EXP	Use it to check the activation of the pre-transfer exposure lamp.	2
	<Procedure> 1) Select the item, and press the OK key so that the pre-transfer exposure lamp goes on. 2) See that the lamp goes on and remains on for several seconds and then goes off automatically.	

COPIER > FUNCTION > MISC-P		
Sub item	Description	Level
CL-ADJ	<p>Use it to adjust the timing at which a clutch goes on and off.</p> <p><Clutches in Question> Vertical path 1 clutch /Vertical path 2 clutch /Vertical path 3 clutch /Vertical path 4 clutch /Lower feeder middle clutch /Lower feeder right clutch /Deck (left) feeding clutch /Side paper deck feeding clutch</p>  <p>Be sure to execute this mode item whenever you have replaced the DC controller PCB. Otherwise, there will likely be a drop in the accuracy of positioning the paper being moved, in turn increasing the frequency of jams.</p>	2

<SENS-ADJ>

T-5-44

COPIER > FUNCTION > SENS-ADJ		
Sub item	Description	Level
OP-SENS	<p>Use it to execute automatic adjustment of the optical sensor.</p> <p>1) Place paper in all decks and cassettes. 2) Select the item, and press the OK key. 3) See that 'ACTIVE' is indicated, with the result (OK/NG) indicated for the sensors that have been checked in sequence.</p>	2

<SYSTEM>

T-5-45

COPIER > FUNCTION > SYSTEM		
Sub item	Description	Level
DOWNLOAD	<p>Use it to switch over to download mode.</p> <p><Procedure> 1) Select the item. 2) Press the OK key to switch to the Download mode screen.</p>	1
CHK-TYPE	<p>Use it to specify the partition (No.) for which HD-CHECK, HD-CLEAR will be executed.</p> <p><Procedure> 1) Select the item. 2) Type in the number of the partition using the keypad, and press the OK key. 0: entire HDD* 1: FSTDEV (compression image data), IMG_MNG (file control table, profile), FSTCDEV (job archiving) 2: AP_GEN (general-purpose data, TMP_GEN (temporary file), TMP_PSS (for PDL spooling) 3: PDLDEV (PDL-related file) 4: BOOTDEV (various firmware such as system software and content)* 5: APL_MEAP (MEAP application) 6: APL_SEND (address book, filter) 7: not used 8: APL_KEEP (non-initialization; for storage)</p> <p>*: HD-CLEAR will not initialize the HDD. If necessary, use the SST/USB memory in safe mode.</p>	1
HD-CHECK	<p>Use it to check and recover the partition selected by CHK-TYPE.</p> <p><Procedure> 1) Select the item. 2) Press the OK key. 3) See the result (1: OK; 2: NG (hardware); 3: NG (software); recovery/alternative sector).</p>	1
HD-CLEAR	<p>Use it to initialize the partition selected using CHK-TYPE.</p> <p><Procedure> 1) Select the item. 2) Press the OK key. 3) Turn off and then on the main power so that initialization starts.</p> <p>Do not turn off the power while initialization is under way.</p>	1
DEBUG-1	<p>Use it to set the type of log to store/timing of storage to the HDD.</p> <p>settings 0 to 3 (default: 0) Use this item when troubleshooting a fault. Be sure to change the setting as instructed by the QA Support department.</p>	2
DEBUG-2	<p>Use it to print out logs stored on the HDD.</p> <p><Procedure> 1) Select the item. 2) Press the OK key. 3) See that the log is printed. (about 2 sheets of A4) Use this time when troubleshooting a fault. Be sure to change the setting as instructed by the QA Support department.</p>	2

5.4.2 FEEDER

5.4.2.1 FEEDER Items

iR7105 / iR7095 / iR7086 /

T-5-46

FEEDER > FUNCTION		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
SENS-INT	Use it to adjust the sensitivity of the various sensors of the ADF.	1
	Be sure to clean the sensors before executing the item. Procedure 1) Select the item, and press the OK key. 2) See that the adjustment ends automatically.	
BLT-CLN *	Use it to clean the separation belt of the ADF.	1
	<Procedure> 1) Select the time, and press the OK key. 2) See that the separation belt goes on. Press the Stop key to stop the operation.	
REG-CLN *	Use it to clean the registration roller of the ADF.	1
	<Procedure> 1) Select the item, and press the OK key. 2) See that the registration roller rotates. Press the Stop key to stop the operation.	
MTR-CHK **	Use it to check the ADF motor on its own.	1
	<Procedure> 1) Select the item. 2) Type in the number of a specific part using the keypad. 3) Press the OK key. 4) Press MTR-ON to check the operation. No. and Part 0: pickup motor 1: transport motor	
TRY-A4 **	Use it to execute auto adjustment on paper width detection reference point 1 for the original pickup tray of the ADF. (A4)	1
TRY-A5R **	Use it to execute auto adjustment on paper width detection reference point 2 for the original pickup tray of the ADF. (A5R)	1
TRY-LTR **	Use it to execute auto adjustment on paper width detection reference point 1 for the original pickup tray of the ADF. (LTR)	1
TRY-LTRR **	Use it to execute auto adjustment on paper width detection reference point 2 for the original pickup tray of the ADF. (LTRR)	1
FEED-CHK **	Use it to check paper passage for the ADF on its own.	1
	<Procedure> 1) Select the item. 2) Type in the number of a specific paper passage mode using the keypad. 3) Press the OK key. 4) Press FEED-ON to check the operation. No. and Paper Passage Mode 0: simplex pickup delivery operation 1: duplex pickup delivery operation 2: simplex pickup delivery operation w/ stamp 3: duplex pickup delivery operation w/ stamp	
CL-CHK **	Use it to check the ADF clutch on its own.	1
	<Procedure> 1) Select the item 2) Type in the number of a specific part using the keypad. 3) Press the OK key. 4) Press CL-ON to check the operation. No. and Part 0: pickup clutch	
CL-ON **	Use it to start the operation of the clutch.	1
	<Procedure> 1) Select the item, and press the OK to start the operation of the clutch. 2) Press the OK key to stop the operation. (It will stop automatically in about 2 sec. But the indication will not change to 'STOP' until the OK key is pressed once again.)	
FAN-CHK **	Use it to check the operation of the clutch on its own.	1
	<Procedure> 1) Select the item. 2) Type in the number of a specific part using the keypad. 3) Press the OK key. 4) Press FAN-ON to check the operation. No. and Part 0, 1: cooling fan	
FAN-ON **	Use it to start fan operation.	1
	<Procedure> 1) Select the item, and press the OK key to start fan operation. 2) Press the OK key to stop the operation. (The operation will stop automatically in about 5 sec, but the indication will not change to 'STOP' until the OK key is pressed once again.)	

FEEDER > FUNCTION		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
SL-CHK **	Use it to check the ADF solenoid on its own. <Procedure> 1) Select the item. 2) Type in the number of a specific part using the keypad. 3) Press the OK key. 4) Press SL-ON to check the operation. No. and Part 0: locking solenoid 1: stamp solenoid	1
SL-ON **	Use it to start the operation of the solenoid. <Procedure> 1) Select the item, and press the OK key to start the motor operation. 2) Press the OK key to stop the operation. (The operation will stop automatically in about 5 sec, but the indication will not change to 'STOP' until the OK key is pressed once again.)	1
MTR-ON **	Use it to start motor operation. <Procedure> 1) Select the item, and press the OK key so that the motor will start. 2) Press the OK key to stop the operation. (The operation will stop automatically in about 5 sec, but the indication will not change to 'STOP' until the OK key is pressed once again.)	1
ROLL-CLN **	Use it to clean the ADF roller. <Procedure> 1) Select the item so that the roller starts to rotate. 2) While the roller is rotating, clean it by pressing lint-free paper (moistened with alcohol) against it. 3) Select ROLL-CLN to highlight, and press the OK key so that the roller will stop.	1
FEED-ON **	Use it to check the passage of paper on the ADF on its own. <Procedure> 1) Select the item, and press the OK key so that paper movement starts according to the operation mode selected using FEED-CHK.	1

5.4.3 SORTER**5.4.3.1 SORTER Items**

iR7105 / iR7095 / iR7086 /

T-5-47

SORTER > FUNCTION		
Sub item	Description	Level
PCH-STUP	Use it to setup up a high-accuracy puncher. (non-Japanese model only)	1
	Use it to adjust the horizontal registration position when installing a high-accuracy puncher. Procedure 1) Select the item, and press the OK key. 2) See that the machine turns out a blank print.	

5.5 OPTION (Machine Settings Mode)

5.5.1 COPIER

5.5.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /

<BODY>

T-5-48

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
PO-CNT	Use it to enable/disable the potential control mechanism.	1
	settings 0: off; 1: on (default)	
TRNSG-SW	Use it to select an appropriate transfer guide bias control mode.	1
	settings 0: absolute moisture content (if 22 g or higher, 200 V; otherwise, 600 V) 1: fixed to 600 V 2: fixed to 200 V 3: if absolute water content of 18 g or more, 200 V; otherwise, 600 V (default) 4: if absolute waste content of 14 g or more, 200 V; otherwise, 600 V	
MODEL-SZ	Use it to switch over the display of default magnifications and ADF original size detection.	1
	settings 0: AB (6R5E) (default) 1: INCH (5R4E) 2: A (3R3E) 3: AB/INCH (6R5E)	
FIX-TEMP	Use it to set the down sequence start temperature for heavy paper.	1
	settings 0: 194 deg C; 1: 189 deg C (default); 2: 184 deg C	
FUZZY	Use it to enable/disable the fuzzy control mechanism and make environment settings.	1
	Affects the charging current level for pre-transfer, transfer, and separation. - if set to '1' thorough '3', the mechanism will be free of the environment sensor readings. settings 0: fuzzy control on (default) 1: low humidity environment mode (current level lower than standard) 2: normal humidity environment mode 3: high humidity environment mode (current level higher than standard)	
CNT-W/PR	Use it to enable/disable the density variation mode mechanism for a printing session (PDL input).	1
	settings 0: correct target value to enable density variation during printing (default) 1: disable density variation during printing	
CONFIG	Use it to select multiple firmware items on the hard disk for changing settings (country/area, language, destination, paper size series).	1
	<Procedure> 1) Select <CONFIG>. 2) Select the item to change. 3) Press the +/- key. (Each press changes the setting.) 4) Have all settings for all items, and press the OK key. 5) Turn off and then back on the main power switch. XXYYZZAA XX: country (e.g., JP=Japan) YY: language (e.g., ja=Japanese) ZZ: destination (e.g., 00=Canon) AA: paper size series (00=AB; 01=inch; 02=A; 03=inch/AB)	
TR-SP-C1	Use it to change the transfer/separation output settings for pickup from the right deck.	1
	settings 0: plain paper (default); 1: recycled paper; 2: tracing paper	
TR-SP-C2	Use it to change the transfer/separation output setting for pickup from the left deck.	1
	settings 0: plain paper (defeat); 1: recycled paper; 2: tracing paper	
TR-SP-C3	Use it to change the transfer/separation output setting for cassette 3.	1
	settings 0: plain paper (default); 1: recycled paper; 2: tracing paper	
TR-SP-C4	Use it to change the transfer/separation output setting for pickup from cassette 4.	1
	settings 0: plain paper (default); 1: recycled paper; 2: tracing paper	
TR-SP-MF	Use it to change the transfer/separation output setting for pickup from the manual feeder tray.	1
	settings 0: plain paper (default); 1: recycled paper; 2: tracing paper	
TR-SP-DK	Use it to change the transfer/separation output setting for pickup from the side paper deck.	1
	settings 0: plain paper (default); 1: recycled paper; 2: tracing paper	
DEV-SLOW	Use it to enable/disable the developing cylinder speed variation mechanism.	1
	settings 0: change to suit environment; 1: high speed; 2: low speed (default)	

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
W/SCNR	Use it to indicate the presence/absence of a reader unit.	1
	settings 0: printer model (w/o reader); 1: copier model (w/ reader) If the reader unit is detected at start-up, '1' will be set automatically.	
STPL-SFT	Use it to enable/disable offset stacking in stapler mode.	1
	settings 0: use offset stacking in stapler mode (default) 1: do not use offset stacking in stapler mode The foregoing choice is valid only when 1-point stapling is used.	
DFDST-L1	Use it to adjust the dust detection level when the ADF is in use. (sheet-to-sheet correction)	1
	A higher setting will make the mechanism more sensitive, detecting finer particles of dust. settings: 0 to 255	
DFDST-L2	Use it to adjust the dust detection level when the ADF is in use. (post-job detection)	1
	A higher setting will make the mechanism more sensitive, detecting finer particles of dust. settings: 0 to 255	
CCD-LUT *	Use it to indicate whether or not to use data for CCD gain correction.	1
	Indicates whether or not to use the data collected by COPIER > FUNCTION > CCD > LUT-ADJ2. settings 0: do not use; 1: use (1-point correction); 2: use (3-point correction)	
ENVP-INT	Use it to set the intervals at which the history data is collected on the machine inside temperature/fixing temperature.	1
	settings: 0 to 480 (unit: min) If '0', the history data is not collected.	
BASE-SW	Use it to switch from the MEAP full model to the base model.	1
	settings 0: off (base model); 1: on (full model)	
SC-L-CNT	Use it to set the threshold for identifying large size paper for the scan counter.	1
	settings 0: B4 (default); 1: LTR	
LDAP-ADD	Use it to indicate whether or not to add a LDAP search switch.	1
	Indicates whether or not to add 'Object Class' and 'SrchnamRow' (Search Name Row) to the pull-down list showing the normal set of conditions (name, group, organization unit, e-mail). settings 0: do not add; 1: add The addresses to be searched are limited to e-mail addresses.	
ACFRQNY	Use it to set the developing AC bias frequency (remedy for retransfer/fogging; for plain paper).	1
	Varies the developing AC bias frequency to adjust the level of fogging. - if retransfer is too noticeable, decrease the setting (i.e., increase the level of fogging). - if fogging is too noticeable, increase the setting. settings: -5: 2.0KHz -4: 2.1KHz -3: 2.2KHz -2: 2.3KHz -1: 2.4KHz 0: 2.5KHz (default) 1: 2.6KHz 2: 2.7KHz 3: 2.8KHz 4: 2.9KHz 5: 3.0KHz The foregoing settings are valid only if '0' is set for the following: COPIER > OPTION > BODY > TR-SP-C1/C2/C3/C4/MF/DK.	
CNT-TMG	Use it to switch over the counter increment specifications when a delivery accessory is in use.	1
	settings 0: increase count upon delivery of paper from delivery accessory (default); 1: increase count upon delivery of paper from host machine	
ACFRQ-R	Use it to set the developing AC bias frequency (remedy for retransfer/fogging; for recycled paper).	1
	Varies the developing AC bias frequency to adjust the level of fogging. - if retransfer is too noticeable, decrease the setting (i.e., increase the level of fogging). - if fogging is too noticeable, increase the settings. settings -5: 2.0KHz -4: 2.1KHz -3: 2.2KHz -2: 2.3KHz -1: 2.4KHz 0: 2.5KHz (default) 1: 2.6KHz 2: 2.7KHz 3: 2.8KHz 4: 2.9KHz 5: 3.0KHz The foregoing settings are valid only when '0' is set for the following: COPIER > OPTION > BODY > TR-SP-C1/C2/C3/C4/MF/DK.	
ACFRQ-T	Use it to set the developing AC bias frequency (remedy for retransfer/fogging; for heavy paper).	1
	Varies the developing AC bias frequency to adjust the level of following. - if retransfer is too noticeable, decrease the setting (i.e., increase the level of fogging). - if fogging is too noticeable, increase the setting. settings -5: 2.0KHz -4: 2.1KHz -3: 2.2KHz -2: 2.3KHz -1: 2.4KHz 0: 2.5KHz (default) 1: 2.6KHz 2: 2.7KHz 3: 2.8KHz 4: 2.9KHz 5: 3.0KHz The foregoing settings are valid only when '0' is set for the following: COPIER > OPTION > BODY > TR-SP-C1/C2/C3/C4/MF/DK.	
K-DOT	Use it to select an appropriate retransfer remedial mode.	1
	Selects a mode in which minute dots are formed over the entire surface of the print (outside the image) as a remedy for retransfer. A higher setting will decrease the level of retransfer. settings 0: off (default); 1: 1-dot/75% frequency; 2: 1-dot/100% frequency; 3: 1 to 1.5-dot/100% frequency; 4: 1.5-dot/75% frequency This item is valid only when a type of paper other than heavy paper has been selected.	
FIX-EXP	Use it to select an appropriate fixing smear remedial mode.	1
	Selects VD down control mode to limit smearing occurring at time of fixing. Be sure to set it to '0' if you have replaced the DC controller or initialized the RAM. settings 0: off; 1: use of developing assembly 90 to 10,000 prints/VD down control to suit moisture content (default); 2: VD down control to suit use of developing assembly (0 to 10,000 prints); 3: specific level VD down control	
OVL-DM	Use it to enable/disable double-feeding detection mechanism.	1
	0: disable; 1: enable	

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
ABC-MODE *	Use it to switch over original background processing. (digital ABC setting switchover)	1
	A higher setting (between 1 and 3) will limit the background more. settings -1: limits removal of background density (for photo original or originals with complex elements) 0: off (no idle rotation) 1: remove background 1 2: remove background 2 3: remove background 3	
IDL-MODE	Use it to enable/disable the mechanism that computes the scan area based on the selected paper size.	2
	settings 0: OFF (disable idle rotation) 1: use auto control by environment sensor 2: start idle rotation when fixing roller temperature is 100 deg C 3: start idle rotation when main power switch goes on	
SCANSLCT	Use it to enable/disable computation of the scan area with reference to selected paper size.	2
	settings 0: off (determine scan area based on original detection; default) 1: on (determine scan area based on paper size)	
OHP-TEMP	Use it to switch over the transparency mode temperature control setting.	2
	Decreases the fixing temperature to facilitate separation of transparencies from the fixing roller. 0: 198 deg C (default); 1: 198.3 deg C; 3: 183 deg C	
OHP-CNT	Use it to enable/disable the transparency mode potential control mechanism.	2
	settings 0: use the target value obtained from transparency mode (default) 1: do not execute potential control during transparency mode	
FIX-TMPI	Use it to select a start temperature for plain paper down sequence.	2
	If the user places priority on image quality, set it to '0'; on speed, to '2'. settings: 0: 183 deg C; 1: 178 deg C (default); 2: 173 deg C	
TRSW-P-B	Use it to enable/disable the transfer current output correction mechanism for the trail edge of paper.	2
	settings 0: on; 1: off (default)	
SP-MODE	Use it to enable/disable the separation current output correction control mechanism.	2
	settings 0: standard mode (default); 1: low-voltage mode	
FTMP-DWN	Use it to select an appropriate stacking performance enhancement mode.	2
	Decreases the fixing temperature to improve the performance of stacking in the finisher. settings 0: off (default); 1: -5 deg C; 2: -10 deg C; 3: -15 deg C	
DRUM-CLN	Use it to select an appropriate drum cleaning performance enhancement mode (stop sequence).	2
	- use it if cleaning faults occur. - during copying, stops the rotation of the drum for 1 sec when the setting is reached, recovering the cleaning performance of the cleaning blade. - the higher the setting (0 to 3), the more effective it is. settings 0: if single-sided, 1,000 prints; if double-sided, 500 prints (default) 1: if single-sided, 500 prints; if double-sided, 250 prints 2: if single-sided, 250 prints; if double-sided, 125 prints 3: at absolute moisture content of 9 g or more, if single-sided, passage of 1,000 prints/if double-sided, of 500 prints at absolute moisture content of less than 9 g, if single-sided, passage of 250 prints/if double-sided, of 125 prints 4: off (do not stop drum rotation)	
DRM-IDL	Use it to set the drum idle rotation mode executed at power-on.	2
	Enable it if a smear occurs or the density drops immediately after power-on. - rotates the photosensitive drum idly to prevent adhesion of toner to the drum. settings 0: off (do not execute idle rotation; default) 1: rotate drum idly for 30 sec if absolute moisture content is 18 g or more 2: rotate drum idly for 2 min if absolute moisture content is 18 g or more 3: rotate drum for 30 sec regardless of environment 4: rotate drum for 2 min regardless of environment	
SENS-CNF	Use it to set up the original sensor.	2
	settings 0: AB; 1: inch	
RAW-DATA	Use it to set the reception image troubleshooting mode.	2
	Isolates faults occurring in reception images between received image data and image processing. settings 0: normal operation (default); 1: print out without image processing	
SHARP	Use it to change the image sharpness level.	2
	A higher setting will make the images sharper. settings 1 to 5 (default: 3)	
FDW-DLV	Use it to switch over face-down delivery for multiple printing (to ensure proper stacking).	2
	settings 0: normal (if 1 original, face-down for all) 1: if 1 original, face-up delivery for 1 set, but face-down delivery for multiple sets (default)	

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
COTDPC-D	Use it to set toner save mode.	2
	settings 0: off (do not use toner save mode; default) 1: about -10%; 2: about -20%; 3: about -30%	
RMT-LANG	Use it to switch over languages for the remote UI.	2
	To switch over, use the +/- key to select an appropriate language.	
IFAX-LIM	Use it to limit the number of output characters for i-fax reception.	2
	settings 0 (no limit) to 999 (default: 500)	
DF-BLINE	black line remedial processing for DF stream reading	2
	Use it to enable/disable use of a remedy against black lines caused by dust on the platen roller. setting 0: do not use (default); 1: use	
THICK-PR	Use it to set potential control for heavy paper mode.	2
	settings 0: use the value determined at time of potential control for plain paper mode (default) 1: use the value determined at time of potential control for transparency mode	
TEMP-TBL	Use it to select an appropriate fixing temperature.	2
	settings - if 200V model 0: 183 deg C 1: 193 deg C 2: 178 deg C 3: 173 deg C 4: 168 deg C - if 208V/230V model 0: 193 deg C 1: 198 deg C 2: 188 deg C 3: 183 deg C 4: 178 deg C	
DRM-H-SW	Use it to enable/disable the continuous drum heater off mode.	2
	settings 0: continuous drum heater on (default) 1: check environment temperature every 2 hr, and turn off drum heater if absolute moisture content is 9 g or less	
DEV-IDLR	Use it to set the forced developing assembly idle rotation mode. (before execution of black band sequence at power-on)	2
	settings 0: if 2,000 prints or more made on previous day and, in addition, absolute moisture content is 16 g or more (default); 1: at all times	
BK-BD-1 to BK-BD-12	Use it to set the month-based black band sequence mode (January to December).	2
	settings 0: do not execute if absolute moisture content is less than 9 g; if 9 g or more, execute every 200 prints (default); 1: execute every 60 prints; 2: execute every 20 prints; 3: execute every 6 prints	
PAPER-TY	Use it to set the fixing temperature/pre-transfer assembly control mechanism to suit paper type (inside/outside Japan).	2
	0: control to suit destination (A, AB, inch, AB/inch) 1: assume use of paper for Japan; 2: assume use of paper for outside Japan	
SMTPXP	Use it to change the SMTP transmission port number.	2
	settings 0 to 6535 (default: 25)	
SMTPRXP	Use it to change the SMTP transmission port number.	2
	settings 0 to 65535 (default: 25)	
POP3PN	Use it to change the POP reception port number.	2
	settings 0 to 6535 (default: 110)	
RUI-DSP	Use it to set the copier function option switch of the remote UI (for compliance with disability laws).	2
	settings 0: do not show copier screen for remote UI (default); 1: display	
ORG-LGL	Use it to set special paper sizes (not recognized when the ADF is in use).	2
	settings: * 0: Legal-R (default); 1: Bolivian Officio-R; 2: Argentine Officio-R; 3: Argentine Legal-R; 4: Mexican Officio-R ** 0: Legal-R; 1: Foolscap-R; 2: Officio-R; 3: Folio-R; 4: Australian Foolscap-R; 5: Ecuadorian Officio-R; 6: Bolivian Office-R; 7: Argentine Officio-R; 8: Argentine Legal-R; 9: Government Legal-R; 10: Mexican-R	
ORG-LTR	Use it to select special paper sizes (not recognized when the ADF is in use).	2
	settings * 0: Letter (default); 1: Executive; 2: Korean Government; 3: Argentine Letter; 4: Government Letter ** 0: Letter (default); 1: Executive; 2: Argentine Letter; 3: Government Letter	
ORG-B5 **	Use it to set a special paper size (not recognized when the ADF is in use).	2
	settings 0: B5 (delay); 1: Korean Government	
UI-COPY	Use it to enable/disable display of the copier screen on the control panel.	2
	settings 0: do not display; 1: display (default)	
UI-BOX	Use it to enable/disable display of the box screen on the control panel.	2
	settings 0: do not display; 1: display (default)	

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
UI-SEND	Use it to enable/disable display of the transmission screen on the control panel.	2
	settings 0: do not display; 1: display (default)	
UI-FAX	not used	2
UI-EXT	Use it to enable/disable display of the extension screen on the control panel.	2
	settings 0: do not display; 1: display (default)	
NW-SPEED	Use it to select an appropriate data transmission speed for service when connected to a network.	2
	settings 0: auto (default); 1: 100Base-TX; 2: 10Base-T	
TRY-CHG	Use it to switch over the tray control mechanism for a tray full condition.	2
	settings: 0: delivers to priority tray (default); 1: delivers to tray used for previous job	
STS-PORT	Use it to turn off/on the TOT sync type command communication port.	2
	Turns on/off the inquiry/response (sync) type command communication port for TUF over TCP/IP. settings 0: off (default); 1: on	
CMD-PORT	Use it to turn on/off the TOT async type status communication port.	2
	Turns off/on the async status communication port for TUIF over TCP/IP. settings 0: off (default); 1: on	
MODELSZ2	Use it to make global support settings for copyboard original size detection.	2
	settings 0: normal; 1: inch/AB mix detection	
SZDT-SW	Use it to switch between means of copyboard original size detection (CCD -> photosensor).	2
	settings 0: disable; 1: enable	
NS-CMD5	Use it to set restrictions on the use of CRAM-MD5 authentication for SMTP authentication.	2
	settings 0: depend on SMTP server (default); 1: disable	
NS-GSAPI	Use it to set restrictions on the use of GSSAPI authentication on SMTP authentication.	2
	settings 0: depend on SMTP server (default); 1: disable	
NS-NTLM	Use it to set restrictions on the use of NTLM authentication for SMTP authentication.	2
	settings 0: depend on SMTP server (default); 1: disable	
NS-PLNWS	Use it to set restrictions on the use of PLAIN/LOGIN authentication for SMTP authentication.	2
	Use it to set restrictions on the use of PLAIN/LOGIN (plain text authentication for SMTP authentication) in an environment in which communication packets are encrypted. settings 0: depend on SMTP server (default); 1: disable	
NS-PLN	Use it to set restrictions on PLAIN/LOGIN authentication (plain text authentication) for SMTP authentication.	2
	Use it to set restrictions on the use of PLAIN/LOGIN (plain text authentication for SMTP authentication) in an environment in which communication packets are not encrypted. 0: depend on SMTP server (default); 1: disable	
NS-LGN	Use it to set restrictions on the use of LOGIN authentication for SMTP authentication.	2
	settings 0: depend on SMTP server (default); 1: disable	
MEAP-PN	Use it to change the HTTP port number for MEAP applications.	2
	settings 0 to 65535 (default: 8000)	
SPECK-SW *	Use it to switch between the timing of white plate dust detection.	2
	settings 0: normal timing; 1: for each job	
SVMD-ENT	Use it to switch between methods of starting service mode.	2
	settings 0: user mode key -> 2 and 8 at same time -> user mode key (default) 1: user mode key -> 4 and 9 at same time -> user mode key	
DA-CNCT	Use it to set WPGW(Workplace Gateway) connection.	2
	settings 0: off (default); 1: on	
CHNG-STS	Use it to set the ToT status connection port number.	2
	Changes the port number for status connection in a TUIF over TCP/IP environment. settings 1 to 65535 (default: 20010)	
CHNG-CMD	Use it to set the ToT command connection port number.	2
	Use it to set the port number for the command connection in an TUIF over TCP/IP environment. settings 1 to 65535 (default: 20000)	

COPIER > OPTION > BODY		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
MEAP-DSP	Use it to prohibit a switch-over from the MEAP screen to the Native screen.	2
	settings 0: off (shift to Native screen; default); 1: on (do not shift to Native screen)	
ANIM-SW	Use it to prohibit display of the Error/Jam screen while a MEAP application is in operation.	2
	settings 0: off (display warning screen; default); 1: on (do not display warning screen)	
MEAP-SSL	Use it to set the HTTPS port for MEAP.	2
	settings 0 to 65535 (default: 8443)	
KSIZE-SW	Use it to support Chinese paper (K size).	2
	settings 0: support (default); 1: do not support	
LPD-PORT	Use it to set the LPD port number.	2
	settings 1 to 65535 (default: 515)	
DFDST-L3 *	Use it to adjust the dust detection level when the ADF is in use (sheet-to-sheet correction; large-size paper).	2
	A higher setting will make the mechanism more sensitive, detecting finer particles of dust. settings: 0 to 255	
DFDST-L4 *	Use it to adjust the dust detection level when the ADF is in use (post-job detection; large-size paper)	2
	A higher setting will make the mechanism more sensitive, detecting finer particles of dust. settings: 0 to 255	
ORG-A4R	Use it to set a special paper size not recognized when the ADF is in use.	2
	settings 0: A4R (default); 1: Folio-R	
ORG-FLSC *	Use it to set a specific paper size not recognized when the ADF is in use.	2
	settings 0: Foolscap-R (default); 1: Officio-R; 2: Folio-R; 3: Australian Foolscap-R; 4: Ecuadorian Officio-R; 5: Argentine Officio-R; 7: Argentine Legal-R; 8: Government Legal-R; 10: Mexican Officio-R	
PDF-RDCT	Use it to enable/disable reduction for transmission (PDF transmission).	2
	Use it to enable/disable reduction of images received in fax mode (by converting into PDF for e-mail or file transmission). settings 0: do not reduced for transmission (default); 1: reduce for transmission	
REBOOTSW	enables/disables the rebooting mechanism in conjunction with E240	2
	settings: 0: reboot (default); 1: do not reboot	

<USER>

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COPIER > OPTION > USER		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
COPY-LIM	Use it to change the upper limit for the number of copies.	1
	settings 1 to 9999 prints (default: 9999)	
SLEEP	Use it to enable/disable the sleep function.	1
	settings 0: off; 1: on (default) The sleep function depends on the timer set in user mode.	
WEB-DISP	Use it to enable/disable the indication of a fixing web length warning message.	1
	settings 0: off (do not indicate warning; default); 1: on (indicate warning) If set to '0', the message will be limited to the service mode screen.	
W-TONER	Use it to turn off/on the waste toner case full message.	1
	settings 0: off (do not indicate message; default); 1: on (indicate message) If set to '0', the warning message will be limited to the service mode screen.	
COUNTER1	Use it to set soft counter 1 for the user mode screen.	1
	settings 101: total 1 (fixed)	
COUNTER2 to COUNTER6	Use it to set soft counters 2 through 6 for the user mode screen.	1
	settings 0 to 999 For a list of settings, see the "Soft Counter Specifications" found later.	
CONTROL	enables/disables the charging mechanism (PDL job)	1
	settings 0: do not restrict (default); 1: restrict	
B4-L-CNT	For soft counters 1 through 6, use it to specify whether B4 should be counted as large-size or small-size.	1
	settings 0: small size (default); 1: large size	

COPIER > OPTION > USER		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
COPY-JOB	Use it to prohibit reservation of a copy job when a card reader/coin robot is in use.	1
	settings 0: enable reservation (default); 1: disable reservation	
TAB-ROT	Use it to enable/disable rotation of images by 180 deg for PDL printing (if tab paper is used for landscape orientation).	1
	settings 0: do not rotate; 1: rotate	
PR-PSESW	Use it to enable/disable display of the print pause function switch.	1
	settings 0: do not display (default); 1: display	
IDPRN-SW	Use it to switch between job types that initiate increases in group counters.	1
	settings 0: for print category, Box Print, Report Print, End Local Print, PDL Print for copy category, Copy (default) 1: for print category, Report Print, Send Local Print, PDL Print for copy category, Copy, Box Print	
CNT-SW	Use it to switch between charge counter default indication items.	1
	settings 0: 101 (total 1; default) 1: 102 (total 2), 202 (copy total 2), 127 (total A2) 2: 101 (total 1), 104 (total small), 103 (total large), 501 (scan total 1)	
TAB-ACC	Use it to enable/disable auto cassette switchover in response to the absence of tab paper (index paper).	1
	settings 0: do not switch between cassettes (default); 1: switch between cassettes	
BCNT-AST	Use it to switch between job types that initiate an increase in the box print count for the NE controller.	1
	settings 0: count as PDL job (default); 1: count as copy job	
DOC-REM *	Use it to enable/disable the indication of the Remove Original message.	1
	Normally, when an original is placed in the ADF and the Start button is pressed without opening and then closing the copyboard cover after an original has been read from the copyboard, the machine will indicate a message asking for the removal of the original. Use it to enable/disable the indication of the message. settings 0: do not indicate (default); 1: indicate	
TRAY-SEL	Use it to select the delivery tray. (finisher)	1
	Use it to select the target of delivery for the following: multiple originals, copy count at 1, sort selected, special tray A and B. settings 0: use sample tray (default); 1: use tray B	
LDAP-SW	Use it to switch cover search conditions for the LDAP server.	1
	settings 0: 'includes next'; 1: 'does not include next'; 2: 'is identical to'; 3: 'is not identical to'; 4: 'begins with' (default); 5: 'ends with'	
FROM-OF	Use it to enable/disable the deletion of 'from address' for mail transmissions.	1
	settings 0: do not delete (default); 1: delete	
SPEAKER	Use it to enable/disable display of the speaker/headset switch for user mode.	1
	Enables/disables display of the speaker/headset switch for user mode. settings 0: do not display (default); 1: display	
FILE-OF	Use it to enable/disable transmission to a file address.	1
	Enables/disables transmission to a file address by prohibiting input of a file address from the address book. settings 0: do not prohibit (default); 1: prohibit If a file address has already been registered, the address may be used even after selecting '1'; be sure to remove it manually.	
MAIL-OF	Use it to enable/disable transmission to an e-mail address.	1
	Enables/disables transmission to an e-mail address by prohibiting input of an e-mail address from the address book. settings 0: do not prohibit (default); 1: prohibit If an e-mail address has already been registered, the address may be used even after selecting '1'; be sure to remove it manually.	
IFAX-OF	Use it to enable/disable transmission to an i-fax address.	1
	Enables/disables transmission to an i-fax address by prohibiting input of an i-fax address from the address book. settings 0: do not prohibit (default); 1: prohibit If an i-fax address has already been registered, the address may be used even after '1' has been selected; be sure to delete it manually.	
LDAP-DEF	Use it to change the LDAP server search condition default settings.	1
	Use it to change the default conditions for the search attributes specified at time of making an LDAP server detail search. settings 0: 'name' 'default'; 1: 'e-mail'; 2: 'fax'; 3: 'group'; 4: 'group unit'; 5: user setting 1; 6: user setting 2	
ENCR-SW	Use it to enable/disable the HDD encryption function.	1
	Enables/disables the encryption function when the security expansion kit (encryption) and the iR security kit (HDD deletion) are used in combination. The performance will be higher than the use in combination. 0: do not use encryption; 1: use encryption (default)	

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*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
SIZE-DET	Use it to enable/disable the original size detection function.	2
	The machine is designed so that the scanning lamp goes on for detection of the size of the original when the copyboard cover is opened and then closed; if the user finds its light to be too intense, set it to '0'. settings 0: off; 1: on (default)	
DATE-DSP	Use it to switch between date notations.	2
	settings 0: YYMM/DD; 1: DD/MM/YY; 2: MM/DD/YY	
MB-CCV	Use it to set restrictions on the individuals permitted the use of mail box control card.	2
	settings 0: do not restrict (default); 1: restrict	
PR-D-SEL	Use it to set the density for printing (PDL input).	2
	settings 0: (light) <->4 (standard; default) <-> 8 (dark)	
TRY-STP	Use it to set the output interrupt mode used in response to a tray full condition.	2
	settings 0: normal mode (suspend when finisher tray becomes full; default); 1: suspend in relation to height	
MF-LG-ST	Use it to set extra length mode key.	2
	settings 0: normal (default); 1: indicate extra length key on supported mode screen	
SPECK-DP	Use it to enable/disable display of a warning message in response to the result of dust detection for stream reading.	2
	settings 0: do not indicate; 1: indicate (default)	
CNT-DISP	Use it to enable/disable the indication of a serial number in response to a press on the counter check mode.	2
	settings 0: indicate (default); 1: do not indicate	
PH-D-SEL	Use it to specify the number of lines for photo mode.	2
	settings 0: 141 lines (default); 1: 134 lines	
OP-SZ-DT	Use it to enable/disable the original size detection function in reference to the opening of the copyboard cover.	2
	The machine may be set so that it detects the size of an original with the copyboard cover open (e.g., for a book). settings 0: off (default); 1: on If set to '1', the machine executes original size detection in response to a press on the Start key.	
NW-SCAN	Use it to enable/disable the network scan function.	2
	settings 0: do not permit; 1: permit This choice is not available on a Japanese model. For a non-Japanese PS/PCL model, the settings is fixed to '1'.	
INS-C/S	Use it to expand the inserter function.	2
	settings 0: support only cover (default); 1: support multi-inserter (cover + interleaf)	
TBIC-RNK	Use it to enable/disable halftone uneven density reduction mode.	2
	settings 1 to 5 (default: 2)	
HDCR-DSP	Use it to switch between HDD deletion modes.	2
	settings 1: once using 0s (default); 2: once using random data; 3: 3 times using random data	
BCK-CVR	Use it to enable/disable the back cover function.	2
	settings 0: off; 1: on	
JOB-INVL	Use it to set job intervals for an interrupt.	2
	settings 0: continue with next job immediately for interrupt (default) 1: start next job after delivery of last sheet of interrupt 2: start next job after last sheet of all jobs	
LGSW-DSP	Use it to enable/disable display of 'enable/disable log indication' for user mode.	2
	settings 0: do not display (default); 1: display	
PCL-COPY	Use it to set PCL command COPIES Meru/Pinatubo/Hood compatibility.	2
	settings 0: control on page basis according to COPIES command set on each page (default) 1: Meru/Pinatubo/Hood compatibility mode; 2 through 65535: for future expansion	
PRJOB-CP	Use it to make CCV count pulse settings for reception and report output.	2
	settings 0: do not generate count pulse (default); 1: generate count pulse	
DPT-ID-7	Use it to enable/disable group ID registration and 7-character authentication input.	2
	settings 0: normal (default); 1: 7-character input	
RUI-RJT	Use it to cut the HTTP port in response to 3 attempts at illegal authentication from a remote UI.	2
	settings 0: disable (default); 1: enable	

COPIER > OPTION > USER		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
CTM-S06	Use it to enable/disable deletion of the password from an export file with a file transmission address.	2
	settings 0: do not delete (default); 1: delete	
FREG-SW	Use it to enable/disable display of the free area of the MEAP counter (SPEED).	2
	settings 0: do not display (default); 1: display	
IFAX-SZL	Use it to set restrictions on transmission sizes for i-fax transmission.	2
	settings 0: set restrictions; 1: do not set restrictions (only if not through server; default)	
IFAX-PGD	Use it to enable/disable page division for transmission in i-fax simple mode (when the data exceeds the upper limit for transmission size).	2
	settings 0: do not permit (default); 1: permit	
MEAPSAFE	Use it to switch to MEAP safe mode.	2
	settings 0: normal mode (default); 1: safe mode If it is set to '1', the notation "MPSF" will appear at the top of the screen.	
TRAY-FLL	Use it to set the notification mechanism used in response to a tray full condition.	2
	settings 0: issue when all available trays are full 1: when special trays are full	
PRNT-POS	Use it to specify whether or not to suspend subsequent jobs when the ongoing job is cancelled in the presence of an error.	2
	Enables/disables suspension of subsequent jobs when a job cancel (e.g., #037) has occurred because of an error (other than a service call) during PDL printing. settings 0: do not suspend; 1: suspend	
AFN-PSWD	Use it to set restrictions on access in user mode.	2
	settings 0: off (shift to user mode scan without requiring password; default) 1: on (shift to user mode scan after password match)	
PTJAM-RC	Use it to set the PDL jam recovery switch.	2
	settings 0: off (do not execute recovery); 1: on (execute recovery; default)	
SLP-SLCT	Use it to set the switch designed to switch between existing network-based applications.	2
	settings 0: do not use (default); 1: use When it is set to '1', a shift to sleep mode 3 (1w sleep) will not occur.	
PS-MODE	Use it to make PS compatible settings.	2
	settings 0: no compatibility (default) 1: PS type 3 Halftone command compatible (dither growth reversed); 2 to 65535: for future expansion	
CNCT-RLZ	Use it to enable/disable the connection serialization function.	2
	settings 0: off; 1: on	
DOM-ADD	Use it to set the transmission target domain input complementary switch for mail transmission.	2
	Use it to enable/disable combination of the address entered for transmission with a domain (e.g., @xxx.co.jp) set in user mode. settings 0: do not combine (default); 1: combine <when sending mail to aaaa@xxxx.co.jp> 1) Set 'xxxx.co.jp' in the domain in user mode; then, set '1' for the item. 2) At time of transmission, type 'aaaa' so that the address will read 'aaaa@xxxx.co.jp'.	

<CST>

T-5-50

COPIER > OPTION > CST		
Sub item	Description	Sub item
P-SZ-C1/C2	Use it to select the size of the paper used in the front deck (C1: right deck; C2: left deck).	1
	settings 6: A4 (default); 15: B5; 18: LTR	
U1-NAME to U4-NAME	Use it to enable/disable indication of the paper name when paper of a particular size group (U1 through U4) is detected.	2
	settings 0: indicate 'U1, U2, U3, U4' on touch panel (default) 1: indicate paper name set in service mode (CST-U1, U2, USE, U4)	
CST-U1	Use it to specify the name of paper used in a paper size group (U1).	2
	When any of the following special size papers is set for U1, the paper may be used as a special size paper for U1 (universal cassette). settings 22: K-LGL; 31: Government LETTER (default)	
CST-U2	Use it to specify the name of paper used in a paper size group (U2).	2
	When any of the following special size papers is set for U2, the paper may be used as a special size paper for U2 (universal cassette). settings 24: Foolscap (default); 26: Officio; 27: Ecuadorian Officio; 33: Argentine Legal; 36: Argentina Officio; 37: Mexican Officio	

COPIER > OPTION > CST		
Sub item	Description	Sub item
CST-U3	Use it to specify the name of paper in a paper size group (U3).	2
	When any of the special size papers is specified for U3, the paper may be used as a special size paper for U3 (universal cassette). settings 25: Australian Foolscap; 34: Government Legal (default); 35: Folio	
CST-U4	Use it to specify the image of paper used in a paper size group (U4).	2
	When any of the following special size papers is set for U4, the paper may be used as a special size paper for U4 (universal cassette). settings 18: LTR (default); 29: Argentine Letter	

<ACC>

T-5-51

COPIER > OPTION > ACC		
Sub item	Description	Level
COIN	Use it to set the coin vendor mechanism.	1
	settings 0: coin vendor not used (default); 1: coin vendor used; 2: remote counter	
DK-P	Use it to specify the size of the paper in the side paper deck (small).	1
	settings 0: A4 (default); 1: B5; 2: LTR	
PD-SIZE	Use it to specify the size of the paper in the side paper deck (large).	1
	settings 0: as set in user mode (default); 22: Korean Government; 23: Korean Government-R; 24: Foolscap; 25: Australian Foolscap; 26: Officio; 27: Ecuadorian Officio; 28: Bolivian Officio; 29: Argentine Letter; 30: Argentine Letter-R; 31: Government Letter; 32: Government Letter-R; 33: Argentine Legal; 34: Government Legal; 35: Folio; 36: Argentine Officio; 37: Mexican Officio This mode item is indicated only when a large paper deck is connected.	
TRM-CTR	Use it to enable/disable display of the message for replacement of the trimmer blade on the user screen	1
	settings 0: do not display (default); 1: display	
TRM-CTRH	enabling/disabling display of the trimmer blade replacement message on the user screen	1
	settings 0: do not display (default); 1: display	
BND-CTR	for future use	1
BND-CTRH	for future use	1
CC-SPSW	Use it to change the I/F support level for the control card (CC IV/CC V).	2
	settings 0: do not support (default); 1: support (priority on speed); 2: support (control by priority on upper limit) If set to '1', suspension of printing may not be accurate based on the upper limit owing to the priority given to the maintenance of performance of the printer engine. If set to '2', suspension of printing is possible based on the upper limit, but the printer engine performance may drop depending on which source of paper is selected.	

<INT-FACE>

T-5-52

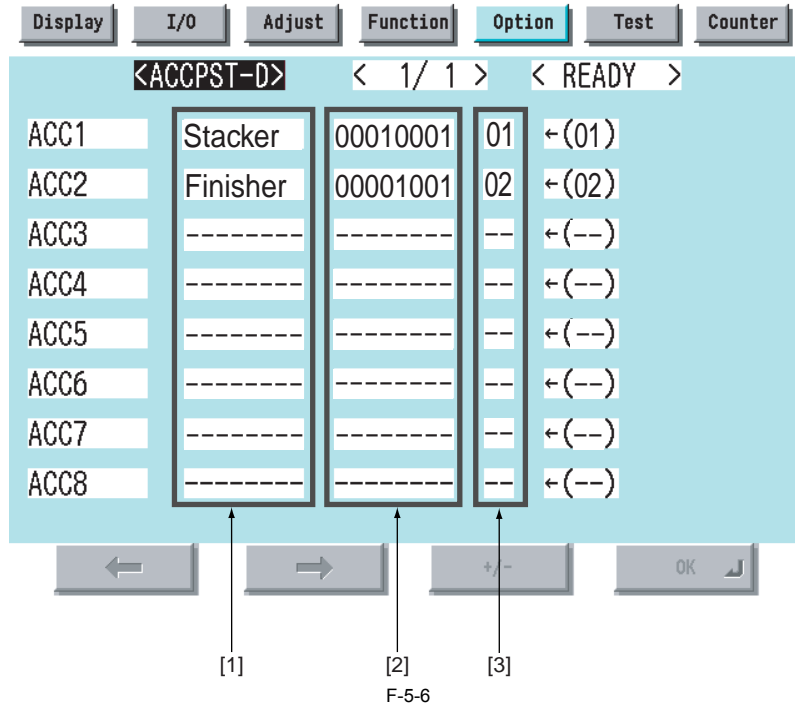
COPIER > OPTION > INT-FACE		
Sub item	Description	Level
IMG-CONT	Use it to indicate the connection of a PS print server unit.	1
	settings 0: PS print server unit not connected (default); 3: PS print server unit connected	
AP-OPT	Use it to enable/disable printing from a PS print server unit application (PrintMe).	2
	settings 0: permit printing by specific account; 1: permit printing by all accounts (default); 2: do not permit printing (permit only specific group ID)	
AP-ACCNT	Use it to set a group ID for printing (job) from a PS print server unit application (PrintMe).	2
	settings 0 to 9999999 (default: 0)	
AP-CODE	Use it to set the path for printing (CPCA) from a PS print server unit application (PrintMe).	2
	settings 0 to 9999999 (default: 0)	
NWCT-TM	Use it to set the time-out length in a network environment.	2
	settings 1 to 5 (unit: min; default: 5)	

<LCNS-TR>

COPIER > OPTION > LCNS-TR		
Indication EX: ST-XXXX 1 <-(0) [0 to 0] [1] [2] [1] status indication; 0: not installed (default); 1: installed [2] invalidation execution; 0: invalidation execution (accepts only 0) <Invalidation Transfer> 1) Select SET-XXXX, and type in '0'; then press the OK key. 2) See that TR-XXXX indicates a license number (24 characters) for transfer.		
Sub item	Description	Level
ST-SEND	for the SEND function in relation to transfer invalidation, indicates the installation status/executes transfer invalidation	2
TR-SEND	for the SEND function in relation to transfer invalidation, obtains a transfer license key	2
ST-ENPDF	for the SEND encryption PDF transmission function in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-ENPDF	for the SEND encryption PDF transmission function in relation to transfer invalidation, obtains a transfer license	2
ST-SPDF	for the SEND searchable PDF transmission function in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-SPDF	for the SEND searchable PDF transmission function in relation to transfer invalidation, obtains a transfer license key	2
ST-EXPDF	for the PDF expansion kit (encryption PDF + searchable PDF, compound function) in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-EXPDF	for the PDF expansion kit (encryption PDF + searchable PDF, compound function) in relation to transfer invalidation, obtains a transfer license key	2
ST-LIPS	for LIPS in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-LIPS	for LIPS in relation to transfer invalidation, obtains a transfer license key	2
ST-PDFDR	for PDF direct in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-PDFDR	for PDF direct in relation to transfer invalidation, obtains a transfer license key	2
ST-SCR	for encryption secure print in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-SCR	for encryption secure print in relation to transfer invalidation, obtains a transfer license key	2
ST-HDCLR	for HDD encryption/full deletion in relation to transfer invalidation, indicates invalidation status/executes transfer invalidation	2
TR-HDCLR	for HDD encryption/full deletion in relation to transfer invalidation, obtains a transfer license key	2
ST-BRDIM	for BarDIMM in relation to transfer invalidation, obtains a transfer license	2
TR-BRDIM	for BarDIMM in relation to transfer invalidation, obtains a transfer license key	2
ST-VNC	for VNC in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-VNC	for VNC in relation to transfer invalidation, obtains a transfer license key	2
ST-WEB	for the Web browser in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-WEB	for the Web browser in relation to transfer invalidation, obtains a transfer license key	2
ST-TRSND	for the trial SEND function in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-TRSND	for the trial SEND function in relation to transfer invalidation, obtains a transfer license key	2
ST-WTMRK	for the background print function in relation to transfer invalidation, indicates installation status/executes transfer invalidation	2
TR-WTMRK	for the background print function in relation to transfer invalidation, obtains a transfer license key	2

<ACCPST-D>

COPIER > OPTION > ACCPST-D		
Sub item	Description	Level
ACC1 to ACC8	Use it to set the order of connection of ARCNET accessories (delivery system). Sets the order of connection of delivery accessories connected to the ARCNET network, starting from the host machine moving upstream. Be sure to use the item at time of installation or when you have replaced the DC controller PCB or initialized the RAM; otherwise, the break in the ARCNET network between the host machine and accessories will prevent the use of accessories. <Procedure> 1) Of ACC1 through ACC8, select the item for which the name of the accessory in question is indicated. 2) Check to find out the position of the accessory with reference to the host machine, and type in the number indicating its order. 3) Press the OK key. 4) Turn off and then back on the host machine and the accessory in the correct sequence. settings 0 to 99	1



- [1] Names of connected accessories
- [2] IDs of connected accessories (unique, 8-character)
- [3] Order of connection

5.5.1.2 Soft Counter Specifications

iR7105 / iR7095 / iR7086 /

T-5-55

No.	Counter description	Support
101	total 1	yes
102	total 2	yes
103	total (large)	yes
104	total (small)	yes
105	total (full color 1)	
106	total (full color 2)	
108	total (black-and-white 1)	yes
109	total (black-and-white 2)	yes
110	total (mono color; large)	
111	total (mono color; small)	
112	total (black-and-white; large)	yes
113	total (black-and-white; small)	yes
114	total 1 (double-sided)	yes
115	total 2 (double-sided)	yes
116	large (double-sided)	yes
117	small (double-sided)	yes
118	total (mono color 1)	
119	total (mono color 2)	
120	total (full color; large)	
121	total (full color; small)	
122	total (full color + mono color; large)	
123	total (full color + mono color; small)	
124	total (full color + mono color 2)	
125	total (full color + mono color 1)	
126	total A1	yes
127	total A2	yes
128	total A (large)	yes
129	total A (small)	yes
130	total A (full color 1)	
131	total A (full color 2)	
132	total A (black-and-white 1)	yes
133	total A (black-and-white 2)	yes
134	total A (mono color; large)	
135	total A (mono color; small)	
136	total A (black-and-white; large)	yes
137	total A (black-and-white; small)	yes
138	total A1 (double-sided)	
139	total A2 (double-sided)	
140	large A (double-sided)	
141	small A (double-sided)	
142	total A (mono color 1)	
143	total A (mono color 2)	
144	total A (full color; large)	
145	total A (full color; small)	
146	total A (full color + mono color; large)	
147	total A (full color + mono color; small)	
148	total A (full color + mono color 2)	
149	total A (full color + mono color 1)	
150	total B1	yes
151	total B2	yes
152	total B (large)	yes
153	total B (small)	yes
154	total B (full color 1)	
155	total B (full color 2)	
156	total B (black-and-white 1)	yes
157	total B (black-and-white 2)	yes
158	total B (mono color; large)	
159	total B (mono color; small)	
160	total B (black-and-white; large)	yes
161	total B (black-and-white; small)	yes
162	total B1 (double-sided)	

No.	Counter description	Support
163	total B2 (double-sided)	
164	large B (double-sided)	
165	small B (double-sided)	
166	total B (mono color 1)	
167	total B (mono color 2)	
168	total B (full color; large)	
169	total B (full color; small)	
170	total B (full color + mono color; large)	
171	total B (full color + mono color; small)	
172	total B (full color + mono color 2)	
173	total B (full color + mono color 1)	

T-5-56

No.	Counter description	Support
201	copy (total 1)	yes
202	copy (total 2)	yes
203	copy (large)	yes
204	copy (small)	yes
205	copy A (total 1)	yes
206	copy A (total 2)	yes
207	copy A (large)	yes
208	copy A (small)	yes
209	local copy (total 1)	yes
210	local copy (total 2)	yes
211	local copy (large)	yes
212	local copy (small)	yes
213	remote copy (total 1)	yes
214	remote copy (total 2)	yes
215	remote copy (large)	yes
216	remote copy (small)	yes
217	copy (full color 1)	
218	copy (full color 2)	
219	copy (mono color 1)	
220	copy (mono color 2)	
221	copy (black-and-white 1)	yes
222	copy (black-and-white 2)	yes
223	copy (full color; large)	
224	copy (full color; small)	
225	copy (mono color; large)	
226	copy (mono color; small)	
227	copy (black-and-white; large)	yes
228	copy (black-and-white; small)	yes
229	copy (full color + mono color; large)	
230	copy (full color + mono color; small)	
231	copy (full color + mono color; 2)	
232	copy (full color + mono color; 1)	
233	copy (full color; large; double-sided)	
234	copy (full color; small; double-sided)	
235	copy (mono color; large; double-sided)	
236	copy (mono color; small; double-sided)	
237	copy (black-and-white; large; double-sided)	
238	copy (black-and-white; small; double-sided)	
245	copy A (full color 1)	
246	copy A (full color 2)	
247	copy A (mono color 1)	
248	copy A (mono color 2)	
249	copy A (black-and-white 1)	yes
250	copy A (black-and-white 2)	yes
251	copy A (full color; large)	
252	copy A (full color; small)	
253	copy A (mono color; large)	
254	copy A (mono color; small)	
255	copy A (black-and-white; large)	yes
256	copy A (black-and-white; small)	yes
257	copy A (full color + mono color; large)	
258	copy A (full color + mono color; small)	

No.	Counter description	Support
259	copy A (full color + mono color 2)	
260	copy A (full color + mono color 1)	
261	copy A (full color; large; double-sided)	
262	copy A (full color; small; double-sided)	
263	copy A (mono color; large; double-sided)	
264	copy A (mono color; small; double-sided)	
265	copy A (black-and-white; large; double-sided)	
266	copy A (black-and-white; small; double-sided)	
273	local copy (full color 1)	
274	local copy (full color 2)	
275	local copy (mono color 1)	
276	local copy (mono color 2)	
277	local copy (black-and-white 1)	yes
278	local copy (black-and-white 2)	yes
279	local copy (full color; large)	
280	local copy (full color; small)	
281	local copy (mono color; large)	
282	local copy (mono color; small)	
283	local copy (black-and-white; large)	yes
284	local copy (black-and-white; small)	yes
285	local copy (full color + mono color; large)	
286	local copy (full color + mono color; small)	
287	local copy (full color + mono color 2)	
288	local copy (full color + mono color 1)	
289	local copy (full color; large; double-sided)	
290	local copy (full color; small; double-sided)	
291	local copy (mono color; large; double-sided)	
292	local copy (mono color; small; double-sided)	
293	local copy (black-and-white; large; double-sided)	
294	local copy (black-and-white; small; double-sided)	

T-5-57

No.	Counter description	Support
002	remote copy (full color 1)	
003	remote copy (full color 2)	
004	remote copy (mono color 1)	
005	remote copy (mono color 2)	
006	remote copy (black-and-white 1)	yes
007	remote copy (black-and-white 2)	yes
008	remote copy (full color; large)	
009	remote copy (full color; small)	
010	remote copy (mono color; large)	
011	remote copy (mono color; small)	
012	remote copy (black-and-white; large)	yes
013	remote copy (black-and-white; small)	yes
014	remote copy (full color + mono color; large)	
015	remote copy (full color + mono color; small)	
016	remote copy (full color + mono color 2)	
017	remote copy (full color + mono color 1)	
018	remote copy (full color; large; double-sided)	
019	remote copy (full color; small; double-sided)	
020	remote copy (mono color; large; double-sided)	
021	remote copy (mono color; small; double-sided)	
022	remote copy (black-and-white; large; double-sided)	
023	remote copy (black-and-white; small; double-sided)	

T-5-58

No.	Counter description	Support
301	print (total 1)	yes
302	print (total 2)	yes
303	print (large)	yes
304	print (small)	yes
305	print A (total 1)	yes
306	print A (total 2)	yes
307	print A (large)	yes
308	print A (small)	yes
309	print (full color 1)	

No.	Counter description	Support
310	print (full color 2)	
311	print (mono color 1)	
312	print (mono color 2)	
313	print (black-and-white 1)	yes
314	print (black-and-white 2)	yes
315	print (full color; large)	
316	print (full color; small)	
317	print (mono color; large)	
318	print (mono color; small)	
319	print (black-and-white; large)	yes
320	print (black-and-white; small)	yes
321	print (full color + mono color; large)	
322	print (full color + mono color; small)	
323	print (full color + mono color; 2)	
324	print (full color + mono color; 1)	
325	print (full color; large; double-sided)	
326	print (full color; small; double-sided)	
327	print (mono color; large; double-sided)	
328	print (mono color; small; double-sided)	
329	print (black-and-white; large; double-sided)	
330	print (black-and-white; small; double-sided)	
331	PDL print (total 1)	yes
332	PDL print (total 2)	yes
333	PDL print (large)	yes
334	PDL print (small)	yes
335	PDL print (full color 1)	
336	PDL print (full color 2)	
339	PDL print (black-and-white 1)	yes
340	PDL print (black-and-white 2)	yes
341	PDL print (full color; large)	
342	PDL print (full color; small)	
345	PDL print (black-and-white; large)	yes
346	PDL print (black-and-white; small)	yes
351	PDL print (full color; large; double-sided)	
352	PDL print (full color; small double-sided)	
355	PDL print (black-and-white; large; double-sided)	
356	PDL print (black-and-white; small; double-sided)	

T-5-59

No.	Counter description	Support
401	copy + print (full color; large)	
402	copy + print (full color; small)	
403	copy + print (black-and-white; large)	
404	copy + print (black-and-white; small)	
405	copy + print (black-and-white 2)	
406	copy + print (black-and-white 1)	
407	copy + print (full color + mono color; large)	
408	copy + print (full color + mono color; small)	
409	copy + print (full color + mono color; 2)	
410	copy + print (full color + mono color; 1)	
411	copy + print (large)	
412	copy + print (small)	
413	copy + print (2)	
414	copy + print (1)	
415	copy + print (mono color; large)	
416	copy + print (mono color; small)	
417	copy + print (full color; large; double-sided)	
418	copy + print (full color; small; double-sided)	
419	copy + print (mono color; large; double-sided)	
420	copy + print (mono color; small; double-sided)	
421	copy + print (black-and-white; large; double-sided)	
422	copy + print (black-and-white; small; double-sided)	

T-5-60

No.	Counter description	Support
501	scan (total 1)	yes
502	scan (total 2)	yes

No.	Counter description	Support
503	scan (large)	yes
504	scan (small)	yes
505	black-and-white scan (total 1)	yes
506	black-and-white scan (total 2)	yes
507	black-and-white scan (large)	yes
508	black-and-white scan (small)	yes
509	color scan (total 1)	
510	color scan (total 2)	
511	color scan (large)	
512	color scan (small)	

T-5-61

No.	Counter description	Support
601	box print (total 1)	yes
602	box print (total 2)	yes
603	box print (large)	yes
604	box print (small)	yes
605	box print (full color 1)	
606	box print (full color 2)	
607	box print (mono color 1)	
608	box print (mono color 2)	
609	box print (black-and-white 1)	yes
610	box print (black-and-white 2)	yes
611	box print (full color; large)	
612	box print (full color; small)	
613	box print (mono color; large)	
614	box print (mono color; small)	
615	box print (black-and-white; large)	yes
616	box print (black-and-white; small)	yes
617	box print (full color + mono color; large)	
618	box print (full color + mono color; small)	
619	box print (full color + mono color 2)	
620	box print (full color + mono color 1)	
621	box print (full color; large; double-sided)	
622	box print (full color; small; double-sided)	
623	box print (mono color; large; double-sided)	
624	box print (mono color; small; double-sided)	
625	box print (black-and-white; large; double-sided)	
626	box print (black-and-white; small; double-sided)	

T-5-62

No.	Counter description	Support
701	reception print (total 1)	yes
702	reception print (total 2)	yes
703	reception print (large)	yes
704	reception print (small)	yes
705	reception print (full color 1)	
706	reception print (full color 2)	
707	reception print (grayscale 1)	
708	reception print (grayscale 2)	
709	reception print (black-and-white 1)	yes
710	reception print (black-and-white 2)	yes
711	reception print (full color; large)	
712	reception print (full color; small)	
713	reception print (grayscale; large)	
714	reception print (grayscale; small)	
715	reception print (black-and-white; large)	yes
716	reception print (black-and-white; small)	yes
717	reception print (full color + grayscale; large)	
718	reception print (full color + grayscale; small)	
719	reception print (full color + grayscale 2)	
720	reception print (full color + grayscale 1)	
721	reception print (full color; large; double-sided)	
722	reception print (full color; small; double-sided)	
723	reception print (grayscale; large; double-sided)	
724	reception print (grayscale; small; double-sided)	
725	reception print (black-and-white; large; double-sided)	

No.	Counter description	Support
726	reception print (black-and-white; small; double-sided)	

T-5-63

No.	Counter description	Support
801	report print (total 1)	yes
802	report print (total 2)	yes
803	report print (large)	yes
804	report print (small)	yes
805	report print (full color 1)	
806	report print (full color 2)	
807	report print (grayscale 1)	
808	report print (grayscale 2)	
809	report print (black-and-white 1)	yes
810	report print (black-and-white 2)	yes
811	report print (full color; large)	
812	report print (full color; small)	
813	report print (grayscale; large)	
814	report print (grayscale; small)	
815	report print (black-and-white; large)	yes
816	report print (black-and-white; small)	yes
817	report print (full color + grayscale; large)	
818	report print (full color + ray scale; small)	
819	report print (full color + grayscale 2)	
820	report print (full color + grayscale 1)	
821	report print (full color; large; double-sided)	
822	report print (full color; small; double-sided)	
823	report print (grayscale; large; double-sided)	
824	report print (grayscale; small; double-sided)	
825	report print (black-and-white; large; double-sided)	
826	report print (black-and-white; small; double-sided)	

T-5-64

No.	Counter description	Support
901	copy scan total 1 (color)	
902	copy scan total 1 (black-and-white)	
903	copy scan total 2 (color)	
904	copy scan total 2 (black-and-white)	
905	copy scan total 3 (color)	
906	copy scan total 3 (black-and-white)	
907	copy scan total 4 (color)	
908	copy scan total 4 (black-and-white)	
909	local copy scan (color)	
910	local copy scan (black-and-white)	
911	remote copy scan (color)	
912	remote copy scan (black-and-white)	
913	transmission scan total 1 (color)	
914	transmission scan total 1 (black-and-white)	
915	transmission scan total 2 (color)	
916	transmission scan total 2 (black-and-white)	yes
917	transmission scan total 3 (color)	
918	transmission scan total 3 (black-and-white)	yes
919	transmission scan total 4 (color)	
920	transmission scan total 4 (black-and-white)	
921	transmission scan total 5 (color)	
922	transmission scan total 5 (black-and-white)	yes
929	transmission scan total 6 (color)	
930	transmission scan total 6 (black-and-white)	yes
931	transmission scan total 7 (color)	
932	transmission scan total 7 (black-and-white)	
933	transmission scan total 8 (color)	
934	transmission scan total 8 (black-and-white)	
935	universal transmission scan total (color)	
936	universal transmission scan total (black-and-white)	
937	box scan (color)	
938	box scan (black-and-white)	
939	remote san (color)	
940	remote scan (black-and-white)	yes

No.	Counter description	Support
941	transmission scan /fax (color)	
942	transmission scan/fax (black-and-white)	
943	transmission scan/i-fax (color)	
944	transmission scan/i-fax (black-and-white)	
945	transmission scan/e-mail (color)	
946	transmission scan/e-mail (black-and-white)	
947	transmission scan/FTP (color)	
948	transmission scan/FTP (black-and-white)	
949	transmission scan/SMB (color)	
950	transmission scan/SMB (black-and-white)	
951	transmission scan/IPX (color)	
952	transmission scan/IPX (black-and-white)	
953	transmission scan/database (color)	
954	transmission scan/database (black-and-white)	
955	transmission scan/local print (color)	
956	transmission scan/local print (black-and-white)	
957	transmission scan/box (color)	
958	transmission scan/box (black-and-white)	

5.5.2 FEEDER

5.5.2.1 FEEDER Items

iR7105 / iR7095 / iR7086 /

T-5-65

FEEDER > OPTION		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
DOC-F-SW *	Use it to enable/disable stream reading mode.	1
	settings 0: stream reading (default); 1: stream reading for small size only; 2: fixed reading	
SIZE-SW	Use it to enable/disable the mixed original detection mechanism (AB and inch).	1
	settings 0: on (disable detection; default); 1: off (enable detection)	
SLW-SPRT *	Use it to decrease the separation speed for original pickup.	1
	settings 0: normal mode (default); 1: deceleration mode	
LS-DBL **	Use it to enable/disable ADF high-speed duplexing mode.	1
	settings 0: on (high-speed duplexing mode; default); 1: off (low-speed duplexing mode)	
STAMP-SW **	Use it to indicate the installation of a stamp.	1
	settings 0: stamp not installed; 1: stamp installed (default)	
HS-DBL *	Use it to enable/disable ADF high-speed reversal mode.	1
	settings 0: off (normal mode; default); 1: on (high-speed duplexing mode) If an increase in productivity is desired in ADF duplexing mode, set it to '1'.	

5.5.3 SORTER

5.5.3.1 SORTER Items

iR7105 / iR7095 / iR7086 /

T-5-66

SORTER > OPTION		
Sub item	Description	Level
BLNK-SW	Use it to set the margin width for the left and right sides of the crease when the saddle stitcher is used.	1
	settings 0: normal width (5 mm); 1: large width (10 mm); 2: no margin (default)	
MD-SPRTN	Use it to enable/disable bare-minimum (regression) mode.	1
	settings 0: normal operation (default); 1: enable bare-minimum operation (no stapling, alignment)	
SDL-PRS	Use it to specify saddle stitcher press operation.	1
	settings 0: enable pressing (one-way; default); 1: disable pressing; 2: enable pressing (both ways)	
BUFF-SW	Use it to enable/disable buffer operation of the finisher.	1
	settings 0: enable buffer operation (fault); 1: disable buffer operation The use of paper with a low friction coefficient (e.g., coated paper) tends to cause displacement in the buffer assembly. If such is the case, set it to '1' (a drop in productivity, however, will be a trade-off).	
TRY-EJCT	Use it to switch over delivery operation for the stack tray of the finisher.	1
	settings 0: normal operation (default); 1: delivery for thin paper The use of thin paper (i.e., paper with little body) can cause poor stacking. If such is the case, set it to '1'.	
PN-SKEW	Use it to increase the accuracy of punch hole positioning (in the direction of horizontal registration).	1
	settings 0: normal mode (default); 1: hole position enhancement mode If an increase in the accuracy of punch hole positioning is desired when the puncher unit is in use, set it to '1'. standard: +/-1.0 mm -> +/-0.5 mm A trade-off will be a drop in productivity (100 -> about 80 ppm).	
CNTR-OUT	Use it to set the delivery center position for the stacker.	2
	settings 0: disable center position delivery (default); 1: enable center position delivery This mode item is valid when a stacker is connected.	

5.5.4 BOARD

5.5.4.1 BOARD Items

iR7105 / iR7095 / iR7086 /

T-5-67

BOARD > OPTION		
Sub item	Description	Level
FONTDL	Use it to enable/disable display of the service setup screen for fonts listed by the PS kanji font downloader.	1
	settings 0: disable display (default); 1: enable display	
MENU-1 to MENU-4	Use it to enable/disable display of levels 1 thorough 4 for the printer setup menu.	2
	settings 0: disable display (default); 1: enable display	

5.6 TEST (Test Print Mode)

5.6.1 COPIER

5.6.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /

<PG>

T-5-68

COPIER > TEST > PG		
Sub item	Description	Level
TYPE	Use it to select a type of test print.	1
	<Procedure> 1) Select the item, and type in the number of the test print you want. 2) Press the Start key so that test printing starts. 3) When done, put back the value to '0'. settings: 0 to 50 0: image from CCD (normal print); 1: grid; 2: 17-gradation (error diffusion); 3: 17-gradation (dither screen); 4: blank; 5: halftone 80H (error diffusion); 6: halftone 80 H (dither screen); 7: solid black; 8: horizontal lines (space: 27 dots; line width: 40 dots); 9: horizontal lines (space: 50 dots; line width: 60 dots); 10: horizontal lines (space: 3 dots; line width: 2 dots); 11: halftone 60 H (error diffusion); 12: halftone 60 H (dither screen); 13: halftone 30 H (error diffusion); 14: halftone 30 H (dither screen); 31: 1200-dpi vertical lines (space: 21 dots; line width: 8 dots); 32: 1200-dpi horizontal lines (space: 21 dots; line width: 8 dots); 33: for check on displacement of image in main scanning direction	
TXPH	Use it to set the image mode for test printing.	1
	settings: 0 to 4 0: text (default); 1: photo; 2: auto; 3: text/photo/map; 4: film print	
PG-PICK	Use it to select the source of paper for test printing.	1
	settings: 1 to 8 1: right deck (default); 2: left deck; 3: cassette 3; 4: cassette 4; 5: side paper deck; 6: manual feeder tray; 7 to 8: not used;	
2-SIDE	Use it to set the output mode for test printing.	1
	settings: 0: simplexing; 1: duplexing	
PG-QTY	Use it to set a copy count for test printing.	1
	setting: 1 to 999 (default: 1)	

<NETWORK>

T-5-69

COPIER > TEST > NETWORK		
Sub item	Description	Level
PING	Use it to issue the PING command.	1
	Use it to check the connection between the machine and the network (TCP/IP only).	
	Use it to check the connection to the network at time of installation or when suspecting a fault in the connection to the network.	

5.7 COUNTER (Counter Mode)

5.7.1 COPIER

5.7.1.1 COPIER Items

iR7105 / iR7095 / iR7086 /

<TOTAL>

T-5-70

COPIER > COUNTER > TOTAL		
Sub item	Description	Level
SERVICE1	total counter 1 for service	1
SERVICE2	total counter 2 for service	1
	large size: increase by 2; small size: increase by 1	
COPY	total copy counter	1
PDL-PRT	PDL print counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
FAX-PRT	fax reception printer counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
RMT-PRT	remote print counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
BOX-PRT	box print counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
RPT-PRT	report print counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
2-SIDE	double-sided copy/printer counter	1
	A blank sheet will not be counted. The counter reading may be reset.	
SCAN	scan counter	1
	A blank sheet will not be counted. The counter reading may be reset.	

<SCANNER>

T-5-71

COPIER > COUNTER > SCANNER		
Sub item	Description	Level
SC-TTL	scanner total scan counter	1
SC-STRM	ADF stream reading counter	1
SC-NRM	ADF fixed reading counter	1

<PICK-UP>

T-5-72

COPIER > COUNTER > PICK-UP		
Sub item	Description	Level
C1	right deck pickup total counter	1
C2	left deck pickup total counter	1
C3/C4	cassette 3/4 pickup total counter	1
MF	manual feeder tray pickup total counter	1
DK	side paper deck pickup total counter	1
2-SIDE	duplexing pickup total counter	1

<FEEDER>

T-5-73

COPIER > COUNTER > FEEDER		
Sub item	Description	Level
FEED	ADF original pickup total counter	1
L-FEED	large-size original ADF pickup total counter	1
S-FEED	small-size original ADF pickup total counter	1
TTL-MF	ADF manual feeder pickup total counter	1
DFOP-CNT	ADF hinge operation (open/close) counter	1

<JAM>

T-5-74

COPIER > COUNTER > JAM		
Sub item	Description	Level
TOTAL	total jam counter	1
FEEDER	ADF total jam counter	1
SORTER	finisher total jam counter	1

COPIER > COUNTER > JAM		
Sub item	Description	Level
2-SIDE	duplexing unit jam counter	1
MF	manual feeder pickup jam counter	1
C1	right deck pickup jam counter	1
C2	left deck pickup jam counter	1
C3/C4	cassette 3/4 pickup jam counter	1
DK	side paper deck jam counter	1

<MISC>

T-5-75

COPIER > COUNTER > MISC		
Sub item	Description	Level
FIX-WEB	fixing web counter	1
	Be sure to reset it after replacing the fixing web.	
WST-TNR	waste toner counter	1
	Be sure to reset it after replacing the waste toner.	
R-PD-SEN	right deck pickup sensor	1
L-PD-SEN	left deck pickup sensor	1
C3-SEN	cassette 3 pickup sensor	1
C4-SEN	cassette 4 pickup sensor	1
SDPD-SEN	side paper deck sensor	1
RK-F-SEN	right deck pull-off sensor	1
LK-F-SEN	left deck pull-off sensor	1
VPT3-SEN	vertical path 3 sensor	1
VPT4-SEN	vertical path 4 sensor	1
SP-F-SEN	side paper deck transport sensor	1

<PRDC-1>

T-5-76

COPIER > COUNTER > PRDC-1		
Sub item	Description	Level
PRM-WIRE	primary charging wire counter	1
PRM-GRID	primary grid wire counter	1
PO-WIRE	pre-transfer charging counter	1
TR-WIRE	pre-transfer charging counter	1
SP-WIRE	separation charging wire counter	1
FIX-TH1	fixing main thermistor (TH1) counter	1
FIX-TH2	fixing sub thermistor (TH2) counter	1
FX-TSW	fixing thermal switch (TP1) counter	1
OZ-FIL1	ozone filter (drum) counter	1
OZ-FIL2	ozone filter (separation) counter	1
OZ-FIL3	ozone filter (fixing) counter	1

<DRBL-1>

T-5-77

COPIER > COUNTER > DRBL-1		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
SCN-LMP *	not used	1
PRM-UNIT	primary charging assembly counter	1
PRM-CLN	primary charging wire cleaner counter	1
PO-UNIT	pre-transfer charging assembly counter	1
PO-CLN	pre-transfer charging wire cleaner counter	1
PO-SCRPR	pre-transfer charging assembly scraper counter	1
TR-CLN	pre-transfer charging wire cleaner counter	1
T/S-UNIT	transfer/separation charging assembly counter	1
SP-CLN	separation charging wire cleaner counter	1
CLN-BLD	cleaning blade counter	1
SP-CLAW	cleaner separation claw counter	1
BS-SL-F	drum cleaner assembly side seal (front) counter	1
BS-SL-R	drum cleaner assembly side seal (rear) counter	1
DVG-CYL	developing cylinder counter	1
DVG-ROLL	developing roll counter	1
DEV-ICL	developing cylinder clutch counter	1

COPIER > COUNTER > DRBL-1		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
C3/C4/LD/ RD/M-PU-RL	cassette 3/cassette 4/left deck/right deck/manual feeder tray pickup roller counter	1
C3/C4/LD/ RD/M-SP-RL	cassette 3/cassette 4/left deck/right deck/manual feeder tray separation roller counter	1
C3/C4/LD/ RD/M-FD-RL	cassette 3/cassette 4/left deck/right deck/manual feeder tray feeder roller counter	1
FX-UP-RL	fixing upper roller counter	1
FX-LW-RL	fixing lower roller (pressure roller) counter	1
FX-IN-BS	fixing heat insulating bush counter	1
FIX-WEB	fixing web counter	1
FX-BRG-U	fixing upper bearing counter	1
FX-BRG-L	fixing lower bearing counter	1
DLV-UCLW	delivery upper separation claw counter	1
DLV-LCLW	delivery lower separation claw counter	1

<DRBL-2>

T-5-78

COPIER > COUNTER > DRBL-2		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
DF-PU-RL	pickup roller counter (ADF)	1
	regardless of the selected read mode (single-sided/double-sided) or paper size (small-size/large-size), the count is increased by 1 for each original	
DF-SP-PL **	separation plate counter (ADF)	1
DF-SP-PD **	separation pad counter (ADF)	1
DF-FD-RL	transport roller counter (ADF)	1
	single-sided mode: increase by 1 per original read double-sided mode: increase by 3 per original read (for passage of face, back, and idle) no distinction between large side and small size	
DF-SP-BL *	separation belt counter (ADF)	1
DF-F-BLT *	transport belt counter (ADF)	1
LNT-TAPI/2/3/ 4/5 **	dust removing sheet A/B/C/D/E counter (ADF)	1
STAMP **	stamp counter (ADF)	1
DF-HNG-L *	hinge (left) counter (ADF)	1
	increase by 1 per opening/closing of the copyboard	
DF-HNG-R *	hinge (right counter; DF)	1
	increase by 1 per opening/closing of the copyboard cover	
DF-SP-M *	separation motor counter (ADF)	1
DF-DL-RL *	delivery roller counter (ADF)	1
DF-DL-M *	delivery motor counter (ADF)	1
DF-TRL-U *	turn roller unit counter (ADF)	1
	turn roller unit counter (ADF) single-sided mode: increase by 1 per original read double-sided mode: increase by 3 per original read (for passage of face, back, and idle) no distinction between large size and small size	
PD-PU-RL	pickup roller counter (side paper deck)	1
PD-SP-RL	separation roller counter (side paper deck)	1
PD-PU-CL	pickup clutch counter (side paper deck)	1
PD-FD-RL	transport roller counter (side paper deck)	1
PD-PL-CL	pull-off clutch counter (side paper deck)	1
PD-PU-MR	pickup motor counter (side paper deck)	1
PD-PU-SL	pickup solenoid counter (side paper deck)	1
NON-SORT	static eliminator counter (finisher upper delivery slot)	1
FIN-STPR	stapler counter (finisher)	1
SDL-STPL	side stapler counter (finisher)	1
PUNCH	punch unit counter (inside finisher)	1
SORT-2	knurled belt counter (finisher)	1
STCK	stack delivery upper roller counter (finisher)	1
DL-STC-L	static eliminator counter (delivery guide inside finisher)	1
DL-STC-R	static eliminator counter (delivery roller inside finisher)	1
STK-STC	stack discharge roller static eliminator counter (finisher)	1
SDL-STC1	inlet stack eliminator counter (finisher saddle transport upper guide)	1
SDL-STC2	static eliminator counter (finisher transport upper guide)	1
FLAP-STC	flapper static eliminator counter (finisher saddle transport upper guide)	1
SDL-RL	shift roller counter (finisher)	1

COPIER > COUNTER > DRBL-2		
*: model equipped with DADF-Q1 (outside Japan: iR7105/7095; inside Japan: All model).		
**: model equipped with DADF-M1 (outside Japan: iR7086).		
Sub item	Description	Level
PF-STC-L	paper stack eliminator counter (paper folding unit left guide)	1
PF-STC-R	paper static eliminator counter (paper folding unit right guide)	1
IS-P-RL1	pickup roller counter (inserter upper tray for finisher)	1
IS-S-RL1	separation roller counter (inserter upper tray for finisher)	1
IS-F-RL1	transport roller counter (inserter upper tray for finisher)	1
IS-TQLM1	torque limiter counter (inserter upper tray for finisher)	1
IS-P-RL2	separation roller counter (inserter lower tray for finisher)	1
IS-S-RL2	transport roller counter (inserter lower tray for finisher)	1
IS-F-RL2	transport roller counter (inserter lower tray for finisher)	1
IS-TQLM2	torque limiter counter (inserter lower tray for finisher)	1
IS-P-RL3	for future use	1
IS-S-RL3	for future use	1
IS-F-RL3	for future use	1
IS-TQLM3	for future use	1
IS-P-RL4	for future use	1
IS-S-RL4	for future use	1
IS-F-RL4	for future use	1
IS-TQLM4	for future use	1
BND-STC1	for future use	1
BND-STC2	for future use	1
SWBK-RL	for future use	1
ALMT-MTR	for future use	1
ST-DT-VR	for future use	1
GRIP-MTR	for future use	1
HEATER	for future use	1
BND-COLL	for future use	1
SNS-ARM1	for future use	1
SNS-ARM2	for future use	1
SNS-ARM3	for future use	1
BND-CUT	for future use	1
CUT-HLDR	for future use	1
TRM-CUT1	trimming upper blade counter (trimmer)	1
TRM-CUT2	trimming lower blade counter (trimmer)	1
TRM-BLT	flat belt counter (trimmer)	1
STK-STC1	static eliminating brush counter (stacker sample tray outlet)	1
STK-STC2	static eliminating brush counter (stacker stacking assembly outlet)	1
STK-STC3	static eliminating brush counter (stacker inlet)	1
STK-STC4	static eliminating brush counter (stacker downstream outlet)	1
PNCH-RL ***	aligning idle roller assembly counter (professional puncher)	1
PN-BP-RL ***	bypass roller kit counter (professional puncher)	1
PN-DR-RL ***	roller energy drive counter (professional puncher)	1
PNCH-BLT ***	aligning belt counter (professional puncher)	1
PNCH-SL ***	back gauge solenoid counter (professional puncher)	1

<H-DRBL-1>

Counters for Durables (used as reference after a long period of use of the host machine, i.e., at 6,000,000 prints)

T-5-79

COPIER > COUNTER > H-DRBL-1		
Sub item	Description	Level
DEV-U	developing assembly counter	1
PT-DRM	photosensitive drum counter	1
DRM-DR-U	drum drive counter	1
D-CLW-AM	reciprocating arm counter	1
BRUSH-U	power supply brush unit counter	1
O-DLV-RL	outside delivery roller counter	1
D-CLW-CL	delivery separation claw reciprocating one-way counter	1
D-CLW-GR	delivery separation claw reciprocating gear counter	1
RV-RL	reversal rubber roller counter	1
I-DLV-RL	inside delivery roller counter	1
REG-RL	registration upper roller counter	1
REG-COL	registration lower color counter	1
RD-FD-SH	roller B shaft (right deck) right deck counter	1
LD-FD-SH	roller B shaft (left deck) left deck counter	1

COPIER > COUNTER > H-DRBL-1		
Sub item	Description	Level
REV-GD	reversing guide counter	1
FLP-SL	flapper solenoid duplexing unit counter	1
RV-G-SL	reversing guide solenoid (SL11) duplexing unit counter	1
RD-PU-SL	right deck pickup solenoid (SL7) right deck counter	1
PU-DR-U	pickup main drive (except pickup motor) counter	1
PR-RG-RL	sponge roller (pre-registration roller) counter	1
PU-D-GR	pickup drive gear counter	1
M-DR-PT	multifeeder door hinge counter	1
DLV-S-AM	delivery sensor lever counter	1
DLV-UP-U	delivery roller guide (delivery upper unit) counter	1
LD-PU-1W	transport roller shaft one-way left deck counter	1
RD-PU-CL	right deck pickup clutch (CL10) right deck counter	1
LD-PU-CL	left deck pickup clutch (CL11) left deck counter	1
V-FD-RL	vertical path drive shaft (roller) counter	1
DUP-F-RL	duplexing sponge roller duplexing unit counter	1
DUP-D-GR	pulley gear 2 duplexing unit counter	1
WEB-SL	web solenoid (SL2) counter	1
CL-DR-U	cleaner drive assembly counter	1
DEV-DR-U	development drive assembly counter	1
PU-D-BLT	pickup drive timing belt counter	1
M-D-BLT	main drive timing belt counter	1

<H-DRBL-2>

Counters for Durables (used as reference after a long period of use of the host machine, i.e., 12,000,000 prints)

T-5-80

COPIER > COUNTER > H-DRBL-2		
Sub item	Description	Level
P-KIT	AP kit counter	1
CRG-D-U	toner cartridge drive unit counter	1
X-FD-U	fixing unit counter	1
RD-U	right deck unit right deck counter	1
LD-U	left deck unit left deck counter	1
C-PU-U	cassette pickup unit counter	1
V-FD-SNS	vertical path sensor base counter	1
V-FD-RL	vertical path roller counter	1
V-P-SNS1	paper detection base counter	1
PRG-V-GD	pre-registration vertical path guide counter	1
V-P-SNS2	vertical path paper sensor 2 counter	1
DUP-U	duplexing unit counter	1
FX-PS-PL	fixing positioning plate counter	1
VFD-SH-U	vertical path drive shaft unit counter	1
DRM-SFT	drum shaft unit counter	1
GEAR-U	90-T gear unit counter	1
V-FD-D-U	vertical path drive unit counter	1
L-PU-D-U	left pickup drive unit left deck counter	1
C-PU-D-U	cassette pickup drive unit counter	1
R-LFT-DR	right deck lifter drive unit counter	1
L-LFT-DR	left deck lifter drive assembly counter	1
MLT-DR-U	multifeeder pickup drive unit counter	1
MN-DR-U	main drive unit counter	1
AR-FIL1	air filter counter	1
AR-FIL2	air filter 2 counter	1
AR-FIL3	air filter 3 counter	1
AR-FIL4	air filter 4 counter	1
DRM-FAN	drum suction fan counter	1
W-T-PIPE	waste toner pipe counter	1
BUSH-1	bushing 1 counter	1
BUSH-2	bushing 2 counter	1
BUSH-3	bushing 3 counter	1
BUSH-4	bushing 4 counter	1
BUSH-5	bushing 5 counter	1

Chapter 6 Outline of Components

6.1 Clutch/Solenoid

6.1.1 Clutches

iR7105 / iR7095 / iR7086 /

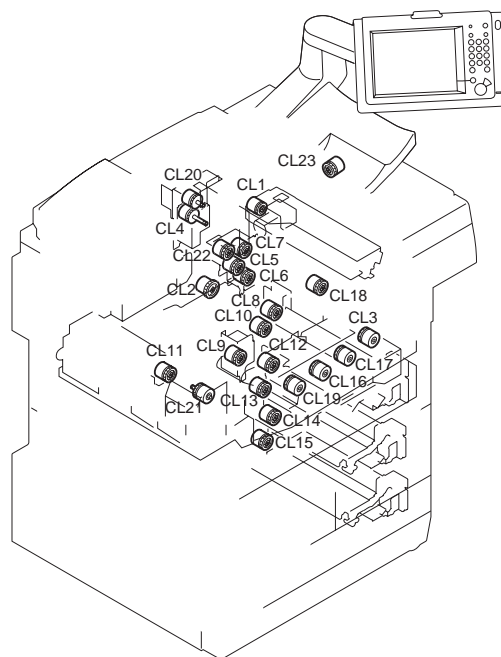
1. Reader Unit

The reader unit does not use clutches.

2. Printer Unit

T-6-1

Notation	Parts Name.	Parts No.	PART-CHK	Connector No.	
				no-stacking driver PCB	DC controller PCB
CL1	Magnet roller drive clutch	FH7-5840	CL>1		J504
CL2	Registration clutch	FH6-5013	CL>2		J509
CL3	Registration brake clutch	FH6-5014	CL>3		J509
CL4	Development 1 clutch	FH6-5015	CL>4		J512
CL5	Pre-registration clutch	FH6-5016	CL>5		J513
CL6	Pre-registration brake clutch	FH6-5014	CL>6		J513
CL7	Manual feed tray pickup roller clutch	FH6-5043	CL>7		J513
CL8	Vertical path 1 clutch	FH6-5014	CL>8		J511
CL9	Vertical path 2 clutch	FH6-5043	CL>9		J514
CL10	Deck (right) pickup clutch	FH6-5043	CL>10		J511
CL11	Deck (left) pickup clutch	FH6-5043	CL>11		J518
CL12	Cassette 3 pickup clutch	FH6-5043	CL>12		J515
CL13	Vertical path 3 clutch	FH6-5014	CL>13		J515
CL14	Cassette 4 pickup clutch	FH6-5043	CL>14		J517
CL15	Vertical path 4 clutch	FH6-5014	CL>15		J517
CL16	Lower feeder middle clutch	FH6-5014	CL>16	J3603	J519
CL17	Lower feeder right clutch	FH6-5014	CL>17	J3603	J519
CL18	Manual feed tray pulling clutch	FH6-5043	CL>18		J513
CL19	Deck (left) feeding clutch	FH6-5014	CL>19	J3603	J519
CL20	Developing cylinder deceleration clutch	FH6-5017	CL>20		J516
CL21	Delivery speed switching clutch	FH7-5844	CL>21		J508
CL22	Manual feed tray feeding roller clutch	FH6-5043	CL>22		J510
CL23	Sub hopper transport clutch	FH7-5840	CL>23		J511



F-6-1

6.1.2 Solenoids

iR7105 / iR7095 / iR7086 /

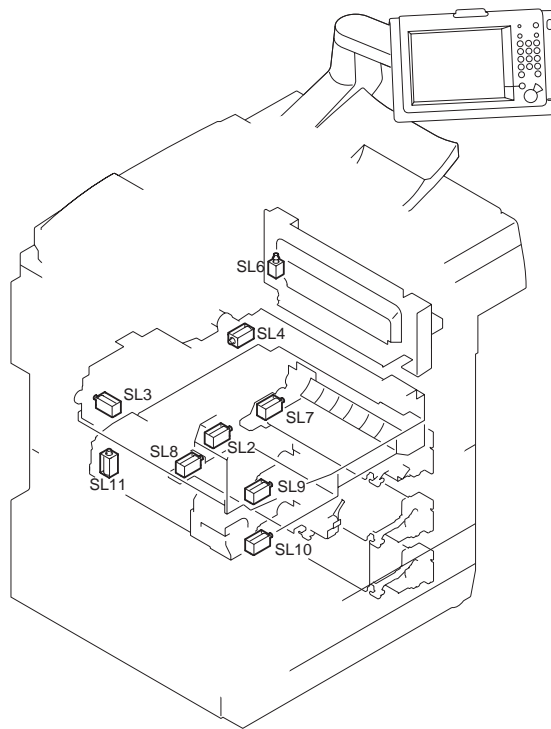
1. Reader Unit

The reader unit does not use solenoids.

2. Printer Unit

T-6-2

Notation	Parts Name	Parts No.	PART-CHK	Connector No.	
				no-stacking driver PCB	DC controller PCB
SL2	Fixing web solenoid	FK2-0034	SL>2		J508
SL3	Delivery flapper solenoid	FH7-5837	SL>3		J508
SL4	Fixing/feeder unit locking solenoid	FH7-5845	SL>4		J509
SL6	Manual feed pickup solenoid	FH7-5838	SL>6		J510
SL7	Deck (right) pickup solenoid	FK2-0126	SL>7		J511
SL8	Deck (left) pickup solenoid	FK2-0126	SL>8		J518
SL9	Cassette 3 pickup solenoid	FH7-5702	SL>9		J515
SL10	Cassette 4 pickup solenoid	FH7-5702	SL>10		J517
SL11	Reversing flapper solenoid	FH7-5837	SL>11	J3604	J519



F-6-2

6.2 Motor

6.2.1 Motors

iR7105 / iR7095 / iR7086 /

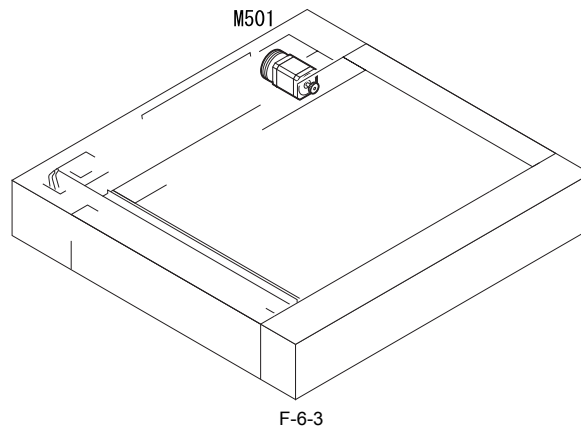
1. Reader Unit

T-6-3

Notation	Parts Name	Description	Parts No.	E code
M501	Scanner motor	drives the No. 1/No. 2 mirror base	FK2-1182	E202

T-6-4

Notation	Connector No.	
	I/F PCB	Reader controller PCB
M501	J306	J205

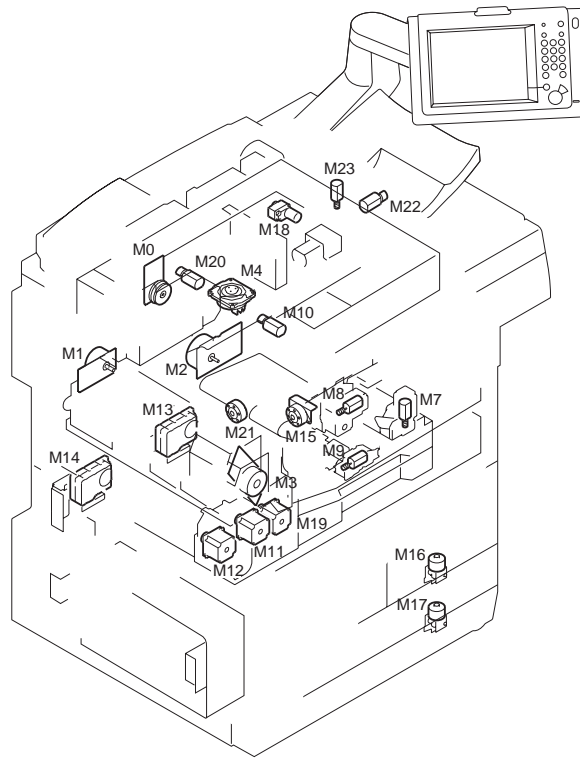


2. Printer Unit

Notation	Parts Name	Description	Parts No.	PART-CHK	E code
M0	Drum motor	drives components associated with the photosensitive drum	FH6-1934	MTR>0	E012
M1	Main motor	drives major components of the printer unit	FH6-1935	MTR>1	E010
M2	Pickup motor	drives the pickup assembly	FH6-1936	MTR>2	E015
M3	Fixing motor	drives the fixing assembly	FH6-1937	MTR>3	E014
M4	Polygon motor	drives the laser scanner	FM2-5449 (Laser scanner unit)	MTR>4	E110
M7	Pre-transfer charging wire cleaner motor	drives the pre-transfer wire cleaner	FH5-1138	MTR>7	
M8	Primary charging wire cleaner motor	drives the primary wire cleaner	FH5-1138	MTR>8	
M9	Transfer/separation charging wire cleaner motor	drives the transfer separation charging wire cleaner	FH5-1138	MTR>9	
M10/20	Vibration motor	drives the cleaning blade	FH5-1141	MTR>10/20	
M11	Duplex reversal motor	drives the reversing roller, lower feeding middle roller, lower feeding right motor	FH6-1939	MTR>11	
M12	Duplex feeder motor (left)	drives the U-turn roller 1, 2	FH6-1940	MTR>12	
M13	Deck (right) lifter motor	drives the Lifter of the deck (right)	FK2-0017	MTR>13	
M14	Deck (left) lifter motor	drives the Lifter of the deck (left)	FK2-0017	MTR>14	
M15	Horizontal registration motor	drives the horizontal registration sensor	FH6-1542	MTR>15	E051
M16	Cassette 3 lifter motor	drives the lifter of the cassette 3	FH6-1960	MTR>16	
M17	Cassette 4 lifter motor	drives the lifter of the cassette 4	FH6-1960	MTR>17	
M18	Buffer motor	supplies toner to the developing assembly	FH6-1543	MTR>18	
M19	Duplex feeder motor (right)	drives the Pre-confluence roller	FH6-1940	MTR>19	
M21	Fixing inlet sensor lift motor	drives ascent/descent of the fixing inlet sensor	FH6-1542	MTR>21	
M22	Sub hopper motor	supplies toner to the buffer unit	FH6-1543	MTR>22	
M23	Toner bottle rotation motor	supplies toner to the sub hopper	FK2-0015	MTR>23	

Notation	Connector No.		
	no-stacking feeding driver PCB	Interface PCB	DC controller PCB
M0			J512
M1			J514
M2			J513
M3			J508
M4			J506
M7			J504
M8			J502
M9			J509
M10/20			J529
M11	J3607		J519
M12	J3607		J519
M13			J514
M14			J514
M15	J3603		J519
M16			J516
M17			J516
M18			J504
M19	J3608		J519
M21			J508
M22			J511
M23			J512

Notation	Connector No.		
	no-stacking feeding driver PCB	Interface PCB	DC controller PCB
M501		J306	



F-6-4

6.3 Fan

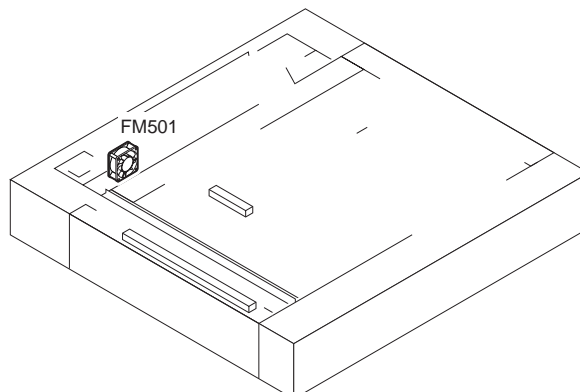
6.3.1 Fans

iR7086

1. Reader Unit

T-6-5

Notation	Parts Name	Description	Parts No.	Connector No.		
				Interface PCB	Reader controller PCB	E/Alarm code
FM501	Reader cooling fan1	cools the reader assembly	FK2-0636	J313	J205	33-0003



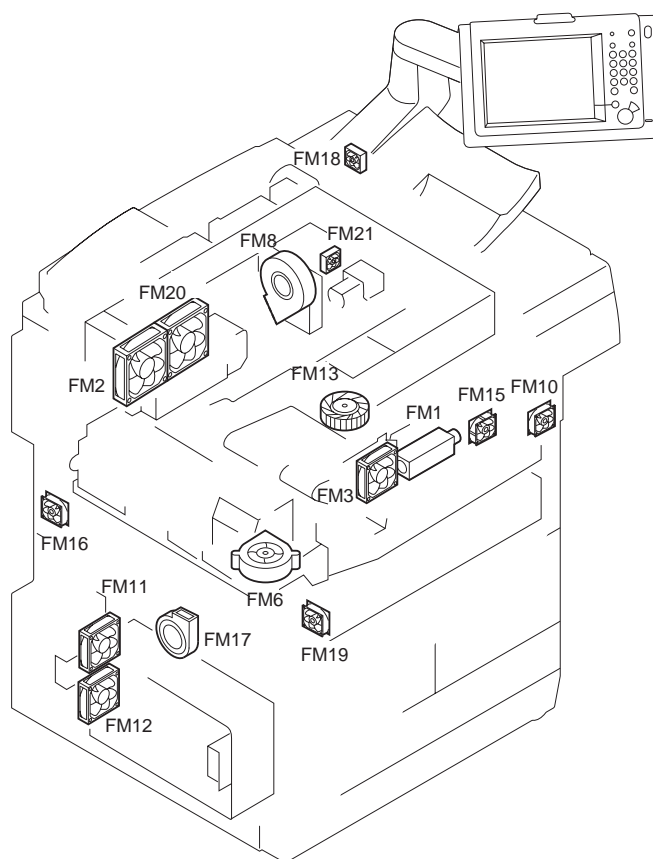
F-6-5

2. Printer Unit

T-6-6

Notation	Parts Name	Description	Parts No.	E code	Alarm code
FM1	polygon mirror cooling fan	cools the laser scanner motor; thermally insulates the unit from the fixing assembly; prevents soiling of the wire of the primary charging assembly	FH6-1941	E111-1111	-
FM2	fixing heat discharge fan	discharges heat from around the fixing assembly	FH6-1545	E805-0001	-
FM3	laser cooling fan	cools the laser scanner unit	FH6-1546	E121-0001	-
FM6	de-curling fan	cools paper	FH6-1548	-	33-0001

Notation	Parts Name	Description	Parts No.	E code	Alarm code
FM8	drum fan	draws out the ozone and stray toner from around the drum; cools the area	FH6-1550	E820-0000	-
FM10	pre-transfer charging assembly fan	discharges the ozone from around the pre-transfer charging assembly	FH6-1547	E823-0000	-
FM11	power supply cooling fan 1	cools the DC power supply PCB	FH6-1546	E804-0000	-
FM12	power supply cooling fan 2	cools the DC power supply PCB	FH6-1546	E804-0000	-
FM13	separation fan	helps separate paper from the drum	FH6-1942	E830-0000	-
FM15	developing fan	cools the developing assembly	FH6-1547	-	33-0006
FM16	system fan	cools the PCBs inside the system box	FH6-1878	-	00-0804
FM17	delivery anti-adhesion fan	cools paper being delivered	FH6-1877	-	33-0007
FM18	scanner heat discharge fan 2	discharges heat from around the laser scanner unit	FH6-1740	E121-0003	-
FM19	duplexing transport fan	cools the duplexing transport motor	FH6-1878	-	33-0009
FM20	separation heat discharge fan	discharges heat from around the separation assembly; improves separation	FH6-1545	E805-0002	-
FM21	scanner heat discharge fan 1	discharges heat from around the laser scanner unit	FH6-1547	E121-0001	-



F-6-6

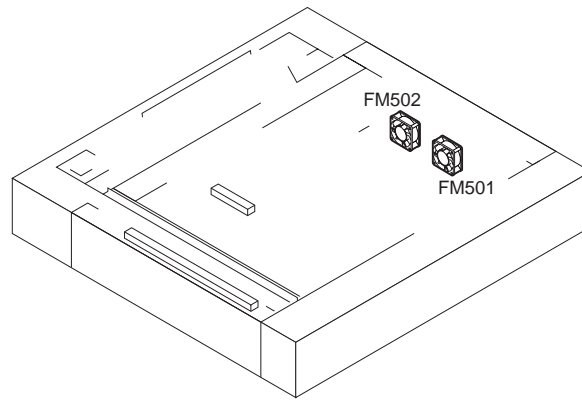
6.3.2 Fans

iR7105 / iR7095 /

1. Reader Unit

T-6-7

Notation	Parts Name	Description	Parts No.	Connector No.		E/Alarm code
				Interface PCB	Reader controller PCB	
FM501	Reader cooling fan1	cools the reader assembly	FK2-1188	J311	J205	33-0003
FM502	Reader cooling fan2	cools the reader assembly	FK2-1189	J311	J205	33-0004

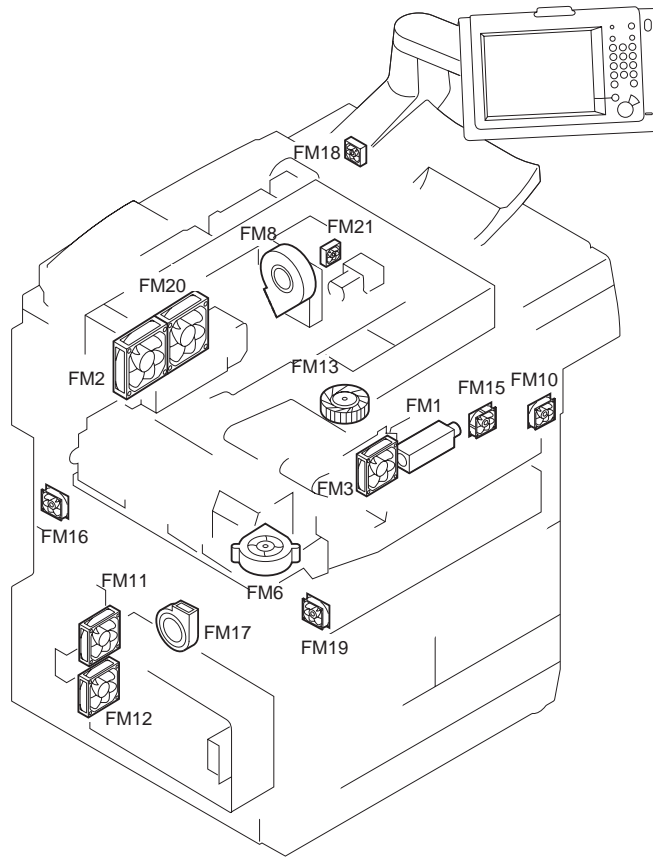


F-6-7

2. Printer Unit

T-6-8

Notation	Parts Name	Description	Parts No.	E code	Alarm code
FM1	polygon mirror cooling fan	cools the laser scanner motor; thermally insulates the unit from the fixing assembly; prevents soiling of the wire of the primary charging assembly	FH6-1941	E111-1111	-
FM2	fixing heat discharge fan	discharges heat from around the fixing assembly	FH6-1545	E805-0001	-
FM3	laser cooling fan	cools the laser scanner unit	FH6-1546	E121-0001	-
FM6	de-curling fan	cools paper	FH6-1548	-	33-0001
FM8	drum fan	draws out the ozone and stray toner from around the drum; cools the area	FH6-1550	E820-0000	-
FM10	pre-transfer charging assembly fan	discharges the ozone from around the pre-transfer charging assembly	FH6-1547	E823-0000	-
FM11	power supply cooling fan 1	cools the DC power supply PCB	FH6-1546	E804-0000	-
FM12	power supply cooling fan 2	cools the DC power supply PCB	FH6-1546	E804-0000	-
FM13	separation fan	helps separate paper from the drum	FH6-1942	E830-0000	-
FM15	developing fan	cools the developing assembly	FH6-1547	-	33-0006
FM16	system fan	cools the PCBs inside the system box	FH6-1878	-	00-0804
FM17	delivery anti-adhesion fan	cools paper being delivered	FH6-1877	-	33-0007
FM18	scanner heat discharge fan 2	discharges heat from around the laser scanner unit	FH6-1740	E121-0003	-
FM19	duplexing transport fan	cools the duplexing transport motor	FH6-1878	-	33-0009
FM20	separation heat discharge fan	discharges heat from around the separation assembly; improves separation	FH6-1545	E805-0002	-
FM21	scanner heat discharge fan 1	discharges heat from around the laser scanner unit	FH6-1547	E121-0001	-

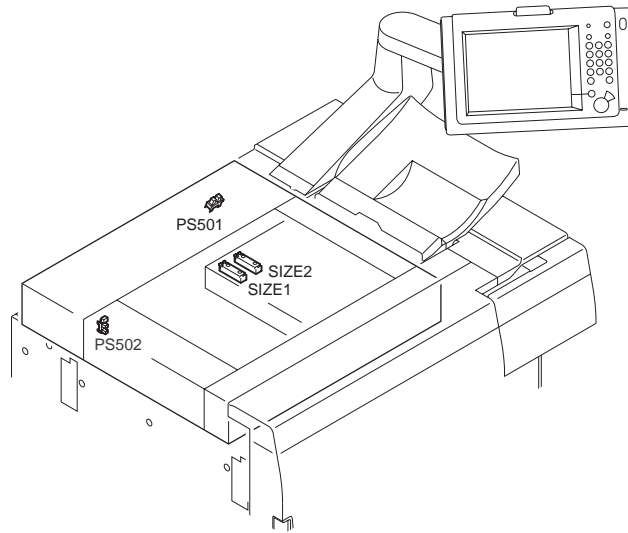


F-6-8

6.4 Sensor

6.4.1 Sensor (reader)

iR7105 / iR7095 /



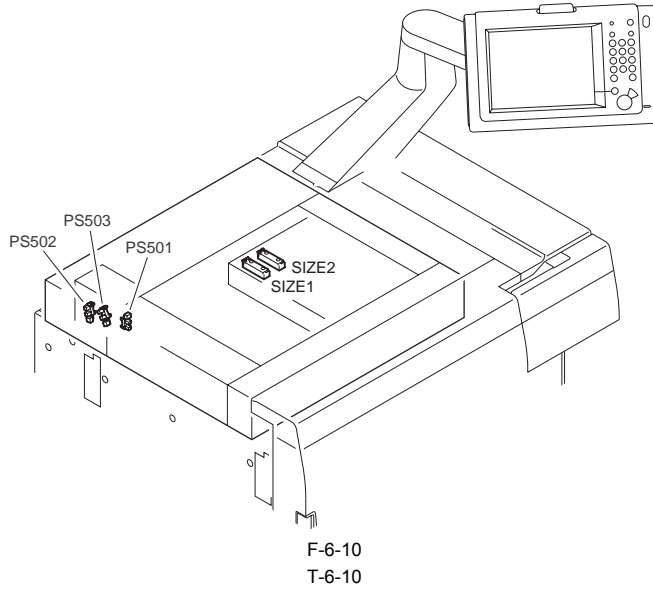
F-6-9
T-6-9

Notation	Name	Description	Parts No.	I/O (RCON)		Connector No.	
						Interface PCB	Reader controller PCB
PS501	ADF open/closed 1 sensor	detects the state (open/closed) of the ADF	FK2-0149	P006-7	0:ADF close	J301/302	J205
PS502	Scanner HP sensor	detects scanner home position	FK2-0149	P006-5	0:HP	J305/303	J202

Notation	Name	Description	Parts No.	I/O (RCON)		Connector No.	
						Interface PCB	Reader controller PCB
SIZE1	Original size sensor 1	detects the original size (A/B, sub scanning direction)	FK2-0238				J206
SIZE2	Original size sensor 2	detects the original size (inch, sub scanning direction)	FK2-0238				J207

6.4.2 Sensor (reader)

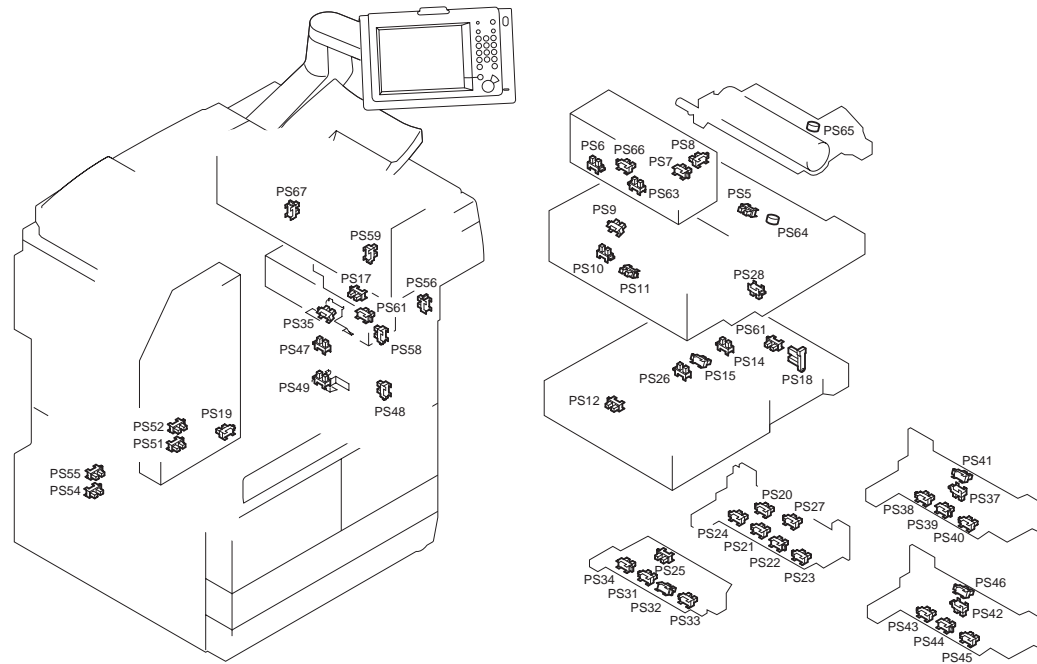
iR7086



Notation	Name	Description	Parts No.	I/O (RCON)		Connector No.	
						Interface PCB	Reader controller PCB
PS501	ADF open/closed 1 sensor	detects the state (open/closed) of the ADF	FK2-0149	P006-6	1:HP	J310/307	J203
PS502	Scanner HP sensor	detects scanner home position	FK2-0149	P006-4	1:ADF close	J310/308	J202
PS503	ADF open/closed 2 sensor	detects the timing of original size	FK2-0149	6-59-11	1:ADF close	J310/308	J202
SIZE1	Original size sensor 1	detects the original size (A/B, sub scanning direction)	FK2-0238				J207
SIZE2	Original size sensor 2	detects the original size (inch, sub scanning direction)	FK2-0238				J208

6.4.3 Sensor 1

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F-6-11

T-6-11

Notation	Name	Description	Parts No.	I/O (DCON)	
PS5	Registration sensor	detects the registration paper	FK2-0149	P002-11	l:paper present
PS6	Claw jam sensor	detects fixing claw jam	FK2-0149	P002-15	l:presence
PS7	No web sensor	detects fixing web length	FK2-0149	P003-3	l:no web
PS8	Web length warning sensor	detects no web alert	FK2-0149	P003-4	l:alert
PS9	Internal delivery sensor	detects the internal delivery	FK2-0149	P002-12	l:paper present
PS10	External delivery sensor	detects the external delivery	FK2-0149	P002-13	l:paper present
PS11	Fixing/feeding outlet sensor	detects the fixing/feeding outlet paper	FK2-0149	P002-14	l:paper present
PS12	Duplex reversal sensor	detects the duplex reversal paper	FK2-0149	P002-1	l:paper present
PS14	Pre-confluence reversal sensor	detects pre-confluence reversal paper	FK2-0149	P002-3	l:paper present
PS15	Post-confluence sensor	detects post-confluence paper	FK2-0149	P002-4	l:paper present
PS17	Multi tray paper sensor	detects paper on the multi tray	FK2-0149	P004-12	l:paper present
PS18	Horizontal registration sensor	detects HP of the horizontal registration guide	FH7-7196-020	-	-
PS19	Waste toner full sensor	detects the waste toner full	FK2-0149	P003-7	l:full
PS20	Right deck pickup sensor	detects the right deck paper pick up	FG6-8605	P003-8	l:paper present
PS21	Right deck lifter sensor	detects the right deck lifter	FK2-0149	P004-0	l:detects lifter
PS22	Deck right paper sensor	detects the paper in the right deck	FK2-0149	P004-8	l:paper present
PS23	Deck right open/closed sensor	detects the right deck open/closed	FK2-0149	P005-4	l:closed
PS24	Deck right limit sensor	detects the right deck limit	FK2-0149	P004-14	l:limit
PS25	Left deck pickup sensor	detects the left deck paper pick up	FG6-8605	P003-9	l:paper present
PS26	Left deck feed sensor	detects the left deck re-try	FG6-8605	P003-15	l:paper present
PS27	Right deck feed sensor	detects the right deck re-try	FG6-8605	P003-14	l:paper present
PS28	Fixing transport unit release lever sensor	detects fixing transport unit release	FK2-0149	P005-14	l:release
PS31	Left deck lifter sensor	detects the left deck lifter	FK2-0149	P004-1	l:detects lifter
PS32	Deck left paper sensor	detects the left deck lifter	FK2-0149	-	-
PS33	Deck left open/closed sensor	detects the left deck open/closed	FK2-0149	P005-5	l:closed
PS34	Deck left limit sensor	detects the left deck limit	FK2-0149	P004-15	l:limit
PS35	Multifeeder pickup sensor	detects the multifeeder re-try	FK2-0149	P002-10	l:paper present
PS37	Cassette 3 pickup sensor	detects paper in the cassette 3	FG6-8605	P003-10	l:paper present
PS38	Cassette 3 open/closed sensor	detects the cassette 3 lifter	FK2-0149	P004-2	l:detects lifter
PS39	Cassette 3 paper sensor	detects paper in the cassette 3	FK2-0149	P004-10	l:paper present
PS40	Cassette 3 open/closed sensor	detects the cassette 3 open/closed	FK2-0149	P005-6	l:closed
PS41	Vertical path 3 sensor	detects the vertical path 3 paper	FG6-8605	P003-12	l:paper present
PS42	Cassette 4 pickup sensor	detects the cassette 4 paper pick up	FG6-8605	P003-11	l:paper present
PS43	Cassette 3 lifter sensor	detects the cassette 4 lifter	FK2-0149	P004-3	l:detects lifter
PS44	Cassette 4 paper sensor	detects the paper in the cassette 4	FK2-0149	P004-11	l:paper present
PS45	Cassette 4 open/closed sensor	detects the cassette 4 open/closed	FK2-0149	P005-7	l:closed
PS46	Vertical path 4 sensor	detects the vertical path 4 paper	FG6-8605	P003-13	l:paper present
PS47	Vertical path 1 sensor	detects the vertical path 1 paper	FK2-0149	P002-8	l:paper present

Notation	Name	Description	Parts No.	I/O (DCON)	
PS48	Lower right cover open/closed sensor	detects the lower right cover open/closed	FK2-0149	P005-9	1:closed
PS49	Vertical path 2 sensor	detects the vertical path 2 paper	FK2-0149	P002-9	1:paper present
PS51	Right deck paper level middle sensor	detects the right deck level (middle)	FK2-0149	P004-4	1:paper present
PS52	Right deck paper level upper sensor	detects the right deck level (upper)	FK2-0149	P004-5	1:paper present
PS54	Left deck paper level middle sensor	detects the left deck level (middle)	FK2-0149	P004-6	1:paper present
PS55	Left deck paper level upper sensor	detects the left deck level (upper)	FK2-0149	P004-7	1:paper present
PS56	Manual feeder tray cover open/closed sensor	detects manual feeder tray cover open/closed	FK2-0149	P005-10	1:closed
PS58	Upper right cover open/closed sensor	detects the upper right cover open/closed	FK2-0149	P005-8	1:closed
PS59	Bottle cover open/closed sensor	detects the toner bottle cover open/closed	FK2-0149	P005-12	1:closed
PS60	Image write start sensor	detects the laser write start	FK2-0149	P002-5	1:paper present
PS61	Duplex outlet sensor	detects the duplex outlet	FK2-0149	P002-2	1:paper present
PS63	Fixing inlet sensor	detects the fixing inlet	FK2-0149	P002-7	1:paper present
PS64	Double feeding sensor (transmission)	detects double feeding (transmission)	FK2-0999	-	-
PS65	Double feeding sensor (reception)	detects double feeding (reception)	FK2-0999	-	-
PS66	Fixing inlet HP sensor	detects remaining paper on fixing inlet guide	FK2-0149	P002-6	1:HP
PS67	Toner bottle sensor	detects the toner bottle	FK2-0149	P003-5	1:detects bottle
PS68	Multiple curling prevention sensor	detects paper at multiple curling roller	FK2-0149	P002-0	1:paper present

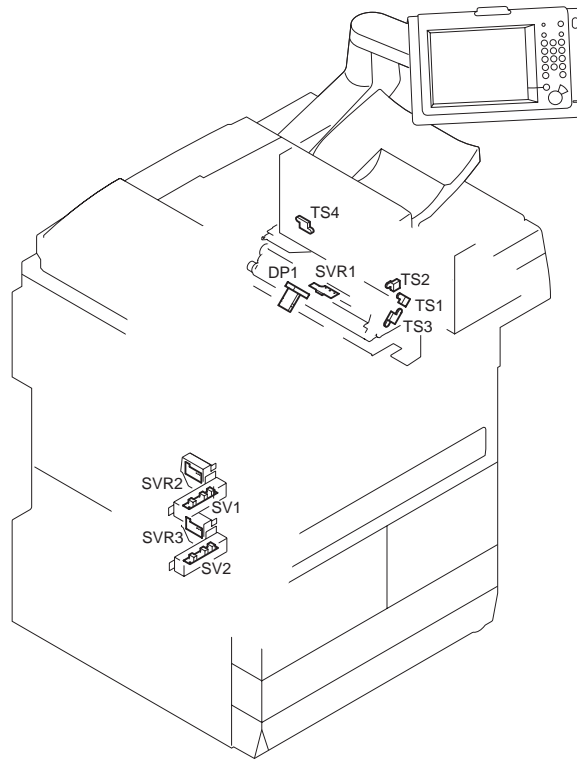
T-6-12

Notation	Name	Connector No.				JAM
		Double feeding detection PCB (transmission)	Double feeding detection PCB (reception)	No-stacking feeder driver PCB	DC controller PCB	
PS5	Registration sensor				J509	xx09
PS6	Claw jam sensor				J508	
PS7	No web sensor				J508	
PS8	Web length warning sensor				J508	
PS9	Internal delivery sensor				J508	xx0B
PS10	External delivery sensor				J508	xx0C
PS11	Fixing/feeding outlet sensor				J508	xx0D
PS12	Duplex reversal sensor			J3605/J3602	J519	xx0F
PS14	Pre-confluence reversal sensor			J3602/J3602	J519	xx11
PS15	Post-confluence sensor			J3603/J3602	J519	xx12
PS17	Multi tray paper sensor				J510	
PS18	Horizontal registration sensor			J3603/J3602	J519	
PS19	Waste toner full sensor				J513	
PS20	Right deck pickup sensor				J511	xx01
PS21	Right deck lifter sensor				J511	
PS22	Deck right paper sensor				J511	
PS23	Deck right open/closed sensor				J511	
PS24	Deck right limit sensor				J511	
PS25	Left deck pickup sensor				J518	xx02
PS26	Left deck feed sensor			J3602/J3602	J519	xx13
PS27	Right deck feed sensor				J511	xx14
PS28	Fixing transport unit release lever sensor				J509	
PS31	Left deck lifter sensor				J518	
PS32	Deck left paper sensor				J518	
PS33	Deck left open/closed sensor				J518	
PS34	Deck left limit sensor				J518	
PS35	Multifeeder pickup sensor				J510	xx19
PS37	Cassette 3 pickup sensor				J515	xx03
PS38	Cassette 3 open/closed sensor				J515	
PS39	Cassette 3 paper sensor				J515	
PS40	Cassette 3 open/closed sensor				J515	
PS41	Vertical path 3 sensor				J515	xx07
PS42	Cassette 4 pickup sensor				J517	xx04
PS43	Cassette 3 lifter sensor				J517	
PS44	Cassette 4 paper sensor				J517	
PS45	Cassette 4 open/closed sensor				J517	
PS46	Vertical path 4 sensor				J517	xx08
PS47	Vertical path 1 sensor				J502	xx05
PS48	Lower right cover open/closed sensor				J516	

Notation	Name	Connector No.				JAM
		Double feeding detection PCB (transmission)	Double feeding detection PCB (reception)	No-stacking feeder driver PCB	DC controller PCB	
PS49	Vertical path 2 sensor				J516	xx06
PS51	Right deck paper level middle sensor				J513	
PS52	Right deck paper level upper sensor				J513	
PS54	Left deck paper level middle sensor				J514	
PS55	Left deck paper level upper sensor				J514	
PS56	Manual feeder tray cover open/closed sensor				J502	
PS58	Upper right cover open/closed sensor				J502	
PS59	Bottle cover open/closed sensor				J512	
PS60	Image write start sensor				J503	xx18
PS61	Duplex outlet sensor			J3605/J3602	J519	xx10
PS63	Fixing inlet sensor				J508	xx1A
PS64	Double feeding sensor (transmission)	J2703/J2702			J509	
PS65	Double feeding sensor (reception)		J2704/J2706		J550	xx0A
PS66	Fixing inlet HP sensor				J508	
PS67	Toner bottle sensor				J512	
PS68	Multiple curling prevention sensor				J510	xx16

6.4.4 Sensor 2

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F-6-12
T-6-13

Notation	Name	Description	Parts No.	Connector No.	
				Potential measurement PCB	DC controller PCB
SV1	Cassette 3 paper length sensor	detects cassette 3 paper length	FG5-8221		J513
SV2	Cassette 4 paper length sensor	detects cassette 4 paper length	FG5-8221		J514
SVR1	Manual feed tray paper width detecting volume	detects manual feed tray paper width	FG5-1958		J510
SVR2	Cassette 3 paper width detecting volume	detects cassette 3 paper width	FG5-1957		J513
SVR3	Cassette 4 paper width detecting volume	detects cassette 4 paper width	FG5-1957		J514
TS1	hopper toner level sensor	detects the level of toner remaining inside the hopper	FK2-0158		J504

Notation	Name	Description	Parts No.	Connector No.	
				Potential measurement PCB	DC controller PCB
TS2	hopper toner lower limit sensor	detects the lower limit of toner remaining inside the hopper	FK2-0158		J504
TS3	developing assembly toner sensor	detects the level of toner remaining inside the developing assembly	FK2-0158		J504
TS4	sub hopper toner level sensor	detects the level of toner remaining inside the sub hopper	FK2-0158		J511
DP1	Potential sensor	measures potential voltage of Photosensitive drum	FG3-4067	J1,J2/J3	J502

6.5 Switch

6.5.1 Switches

iR7105 / iR7095 / iR7086 /

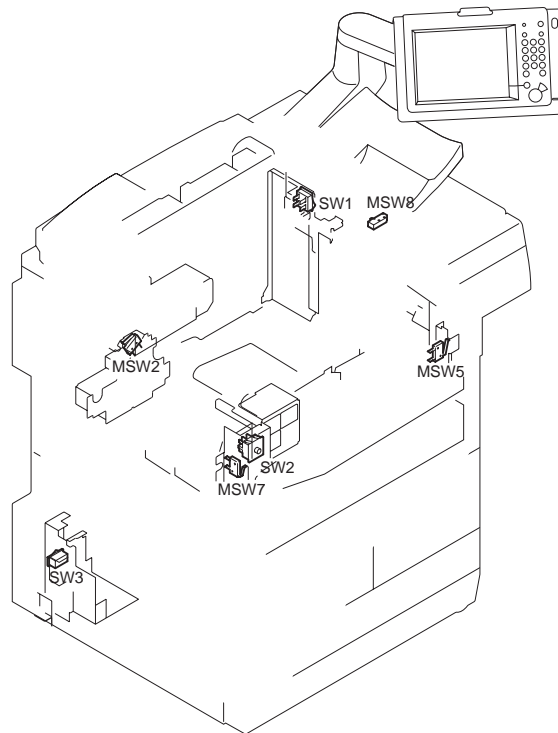
1. Reader Unit

The reader unit does not have any switch.

2. Printer Unit

T-6-14

Notation	Parts Name	Description	Parts No.	E code
SW1	Main switch	turns on/off the main power	FK2-0140	
SW2	Front cover switch	detects the front cover	FH7-6253	
SW3	Drum heater switch	turns on/off the drum heater	WC1-5179	
MSW2	Waste toner lock detection switch	detects the state (locked/unlocked) of the waste toner screw	WC4-5029	E013-0000
MSW5	Manual feed tray cover open/closed detecting switch	detects the state (open/closed) of the manual feed tray	WC4-5153	
MSW7	Front cover open/closed detecting switch	detects the front cover	WC4-0153	
MSW8	Cartridge motor drive switch	detects drive of the cartridge motor	WC4-0241	

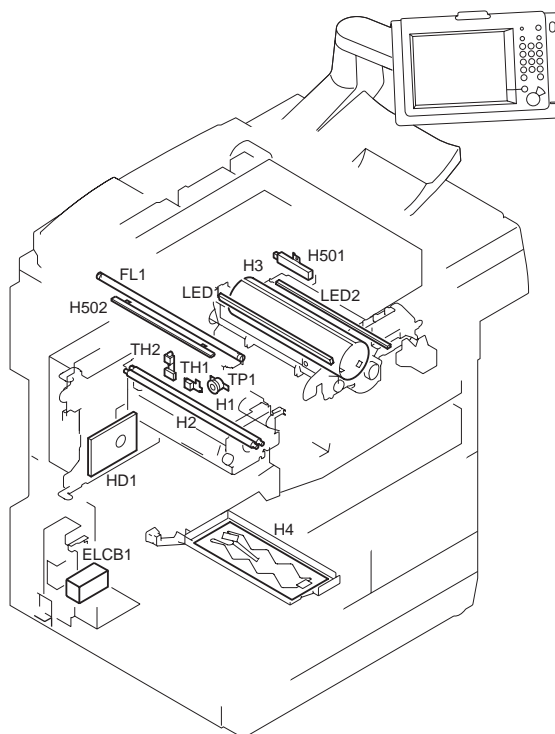


F-6-13

6.6 Lamps, Heaters, and Others

6.6.1 Heaters, Lamps, and Others

iR7105 / iR7095 / iR7086 /



F-6-14

T-6-15

Notation	Parts Name	Description	Parts No.	PART-CHK	E code
H1	Fixing main heater	main heater (controls the fixing roller temperature)	FH7-4707(100V)*1		E000, E001, E002, E003, E004
			FH7-4719(200V)*2		
			FH7-4708(208V)*3		
			FH7-4720(230V)*4		
			FH7-4709(230V)*5		
H2	Fixing sub heater	sub heater (controls the fixing roller temperature)	FH7-4710(100V)*1		
			FH7-4723(200V)*2		
			FH7-4711(208V)*3		
			FH7-4724(230V)*4		
			F14-4712(230V)*5		
H3	Drum heater	prevents condensation on the drum	FH7-4713(100V)*1		
			FH7-4714(200/208V)		
			FH7-4715(230V)		
H4	Cassette heater	prevents absorption of moisture by paper inside the cassette	FH7-4584(100V)		
			FH7-4585(230V)		
H501	Lens heater	prevents condensation on the lens	FK2-0226(100V)		
			FK2-0228(230V)		
H502	Mirror heater	prevents condensation on the mirror	FK2-0227(100V)		
			FK2-0229(230V)		
TH1	fixing main thermistor	performs fixing temperature control, detects error	FH7-7553		E000, E001, E002, E003
TH2	fixing sub thermistor	performs fixing temperature control, detects error	FH7-7464		E000, E001, E002, E003
TP1	fixing thermal switch	serves as a safety mechanism for the fixing assembly	FH7-6333		
ELCB1	Leakage breaker	Leakage breaker	FK2-0014(100V)		
			FH7-7626(200V)		
HD1	Hard disk	holds programs, images	WM2-5225		E602, E609, E610
LED1	pre-exposure lamp (LED)	removes residual charges from the surface of the photosensitive drum	FK2-1003		
LED2	Pre-transfer exposure lamp (LED)	removes residual charges from the surface of the photosensitive drum	FK2-1004		
LA1	scanning lamp	illuminates originals	FK2-1250	MISC-R>SCANLAMP	E225

T-6-16

Notation	Main controller PCB	Inverter PCB	Reader controller PCB	Relay PCB	AC driver PCB	DC controller PCB
H1					J6	J505
H2					J6	J505
H3					J5	J505

Notation	Main controller PCB	Inverter PCB	Reader controller PCB	Relay PCB	AC driver PCB	DC controller PCB
H4					J5	J505
H501				J1733	J5	
H502				J1733	J5	
TH1						J508
TH2						J508
TP1					J6	J505
ELCB1					J1	
HD1	J1003/J1004					
LED1						J504
LED2						J504
LA1		J602/601	J203			

6.7 PCBs

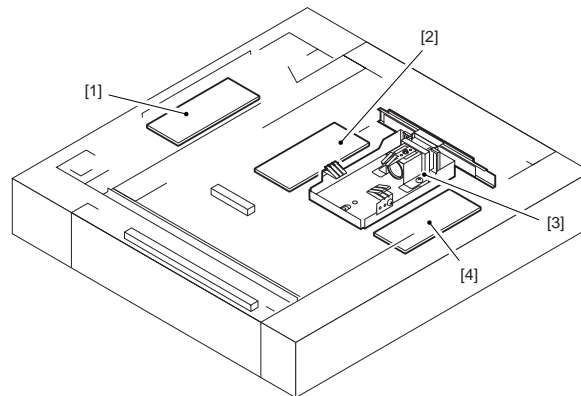
6.7.1 PCBs

iR7105 / iR7095 / iR7086 /

1. Reader Unit

T-6-17

Notation	Parts Name	Parts No.	Description
[1]	Interface PCB	FM2-4820	communicates with the printer unit, ADF
[2]	Reader controller PCB	FM2-4819	controls the reader unit
[3]	CCD/AP PCB	FM2-4742 (CCD unit)	performs analog image processing
[4]	Inverter PCB	FK2-1251	drives the scanning lamp



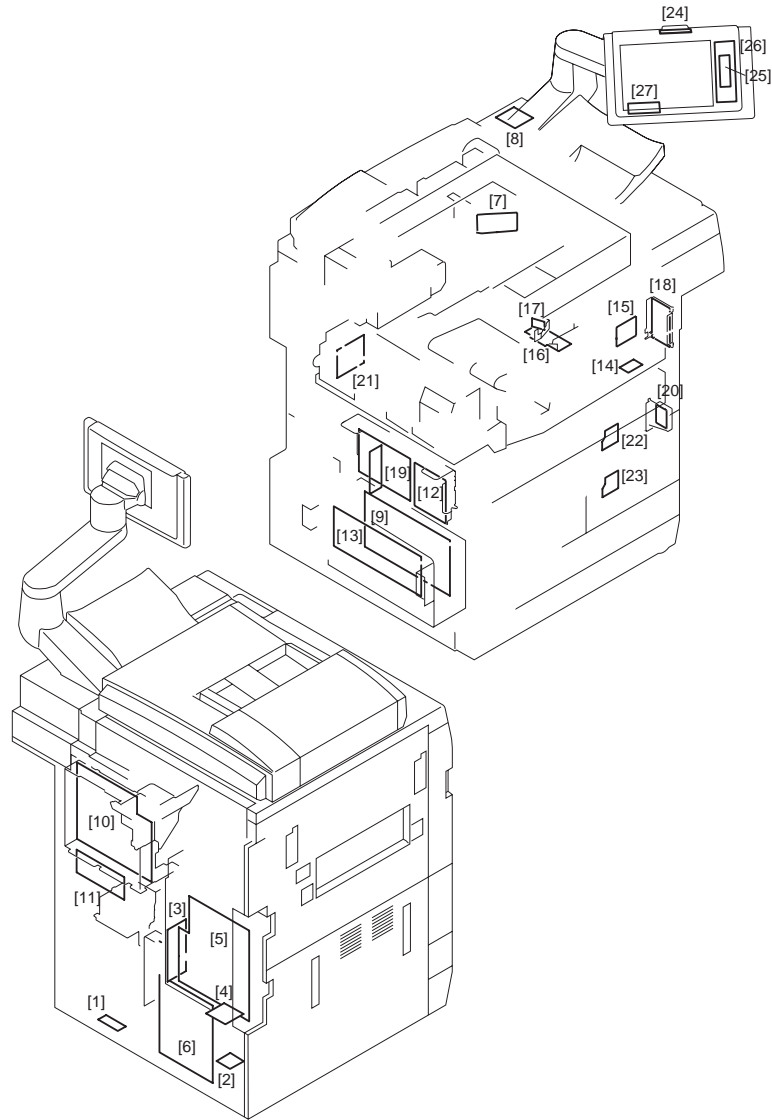
F-6-15

2. Printer Unit

T-6-18

Notation	Parts Name	Parts No.	Description
[1]	Fixing assembly inlet sensor (up/down) driver PCB	FM2-5066	Controls the fixing inlet sensor ascent/descent
[2]	ARCNET PCB	FM2-4884	Controls network communications
[3]	Video PCB	FM2-4354	Executes pixel/line conversion
[4]	Reader I/F PCB	FM2-3796	Converts communication signals
[5]	Main controller PCB	FM2-5423	Controls the system
[6]	DC controller PCB	FM2-4355	Controls the printer unit
[7]	Laser driver PCB 1	FM2-5449 (Laser scanner unit)	Drives the laser diode
[8]	Laser driver PCB 2	FM2-4394	Controls the laser intensity
[9]	DC power supply PCB	FK2-0967 (100V), FG6-8608 (200V), FG6-8600 (208V), FG6-7238 (230V)	Supplies DC power
[10]	HV-DC PCB	FM2-4351	Generates high-voltage DC components
[11]	HV-AC PCB	FG6-7249	Generates high-voltage AC components
[12]	All-day power supply PCB	FK2-0968 (100V), FM2-4366 (200V)	Supplies DC power
[13]	Relay PCB	FM2-4361	Distributes DC power supply
[14]	Double feeding detection PCB (reception)	FK2-0959 (standard if US)	Detects double-feeding of paper (receiving)
[15]	Double feeding detection PCB (transmission)	FK2-0960 (standard if US)	Detects double-feeding of paper (transmitting)
[16]	Drum heater control PCB	FM2-4360 (100V), FM2-4359 (200V)	Drives the drum heater
[17]	BD PCB	FM2-5449 (Laser scanner unit)	Detects the laser beam
[18]	Potential control PCB	FG3-4067 (potential sensor unit)	Controls the drum surface potential

Notation	Parts Name	Parts No.	Description
[19]	AC driver PCB	FM2-5063 (100V), FM2-5064 (200V)	Drive the fixing heater
[20]	Environment sensor PCB	FH7-7426	Detects the machine outside temperature/humidity
[21]	No-stacking feeding driver PCB	FG6-8585	Drives the duplex/feeder unit
[22]	Cassette 3 paper level detection PCB	FG6-1941	Detects the level of paper in the cassette 3
[23]	Cassette 4 paper level detection PCB	FG6-1941	Detects the level of paper in the cassette 4
[24]	Controls panel LED PCB	FM2-5463	Controls the LED indications
[25]	Controls panel CPU PCB	FM2-5461	Controls the control panel
[26]	Control panel key PCB	FM2-5462	Controls panel key inputs and LED indications
[27]	Control panel inverter PCB	FK2-1646	controls the back-light activation of the LCD



F-6-16

Chapter 7 System Construction

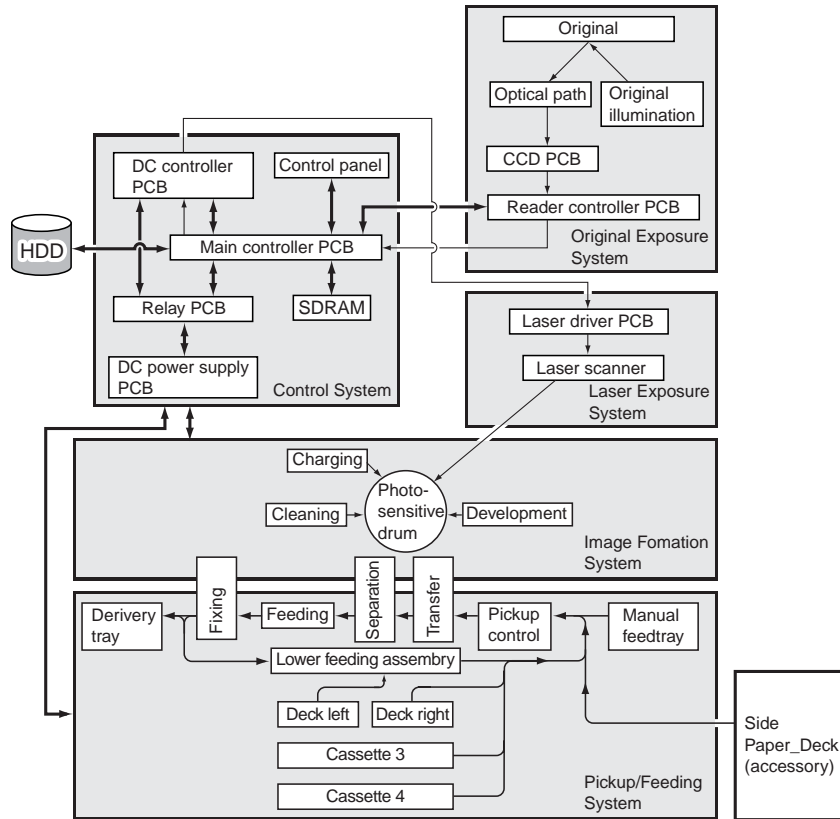
7.1 Construction

7.1.1 Functional Construction

iR7105 / iR7095 / iR7086 /

The copier is divided into the following five functional blocks

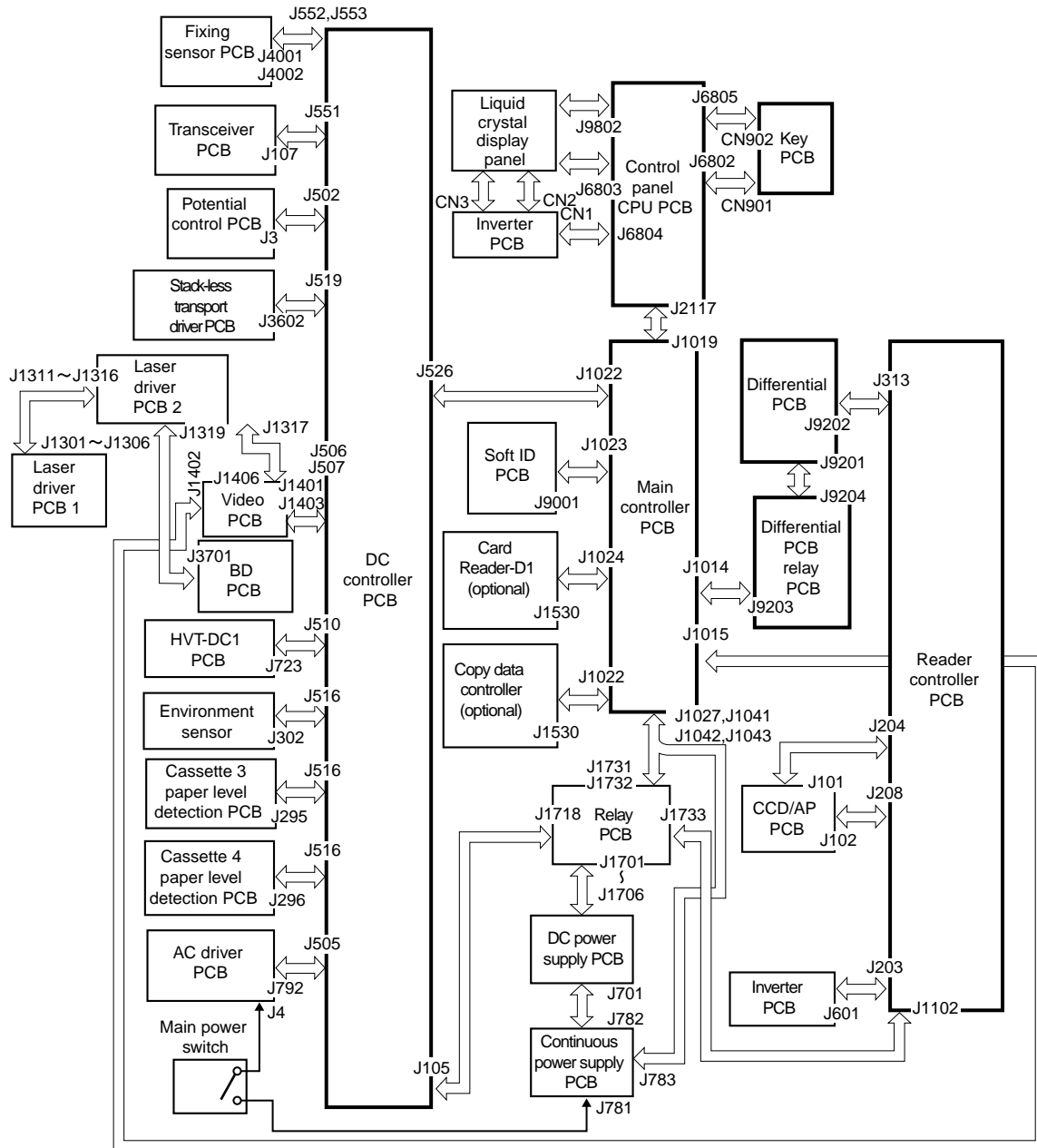
- Original exposure system
- Laser exposure system
- Image formation system
- Pickup/feeding system
- Control system



F-7-1

7.1.2 Wiring Diagram of the Major PCBs

iR7105 / iR7095 / iR7086 /



Note: The \longleftrightarrow in the diagram indicates major wiring between PCBs, not the direction of signals.

F-7-2

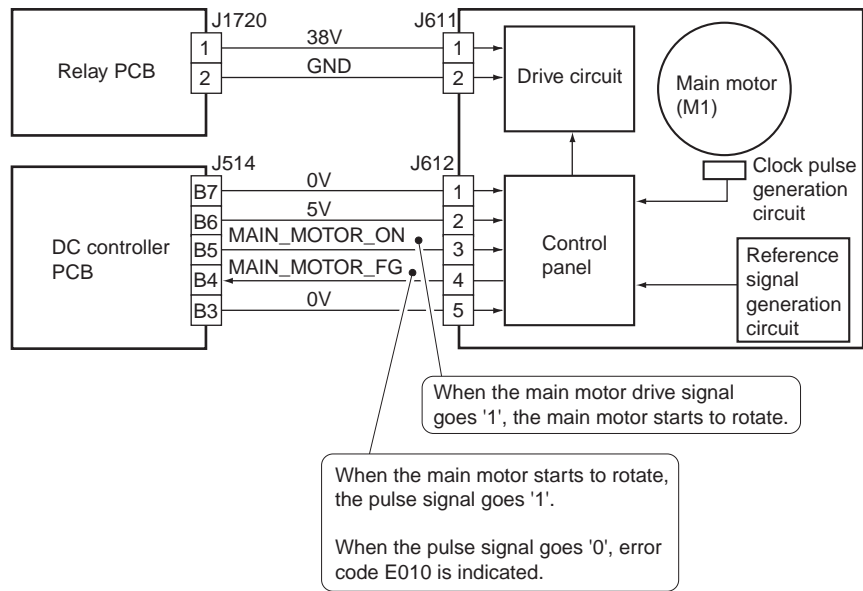
7.1.3 Controlling the Main Motor (M1)

iR7105 / iR7095 / iR7086 /

Table shows the functions of the main motor control circuit, and Figure is a block diagram of the circuit.

T-7-1

Item	Description
Power supply	38 V from the relay PCB.
Drive signal	Signals (MAIN_MOTOR_ON) from the DC controller PCB.
Operating/drive assembly	Waste toner feeding screw Cleaner assembly Feeding belt Internal delivery roller External delivery roller Reversing roller Separation claw (reciprocating operation) Developing assembly unit (through CL10)
Control	ON/OFF control Constant speed control
Error detection	Error code E010



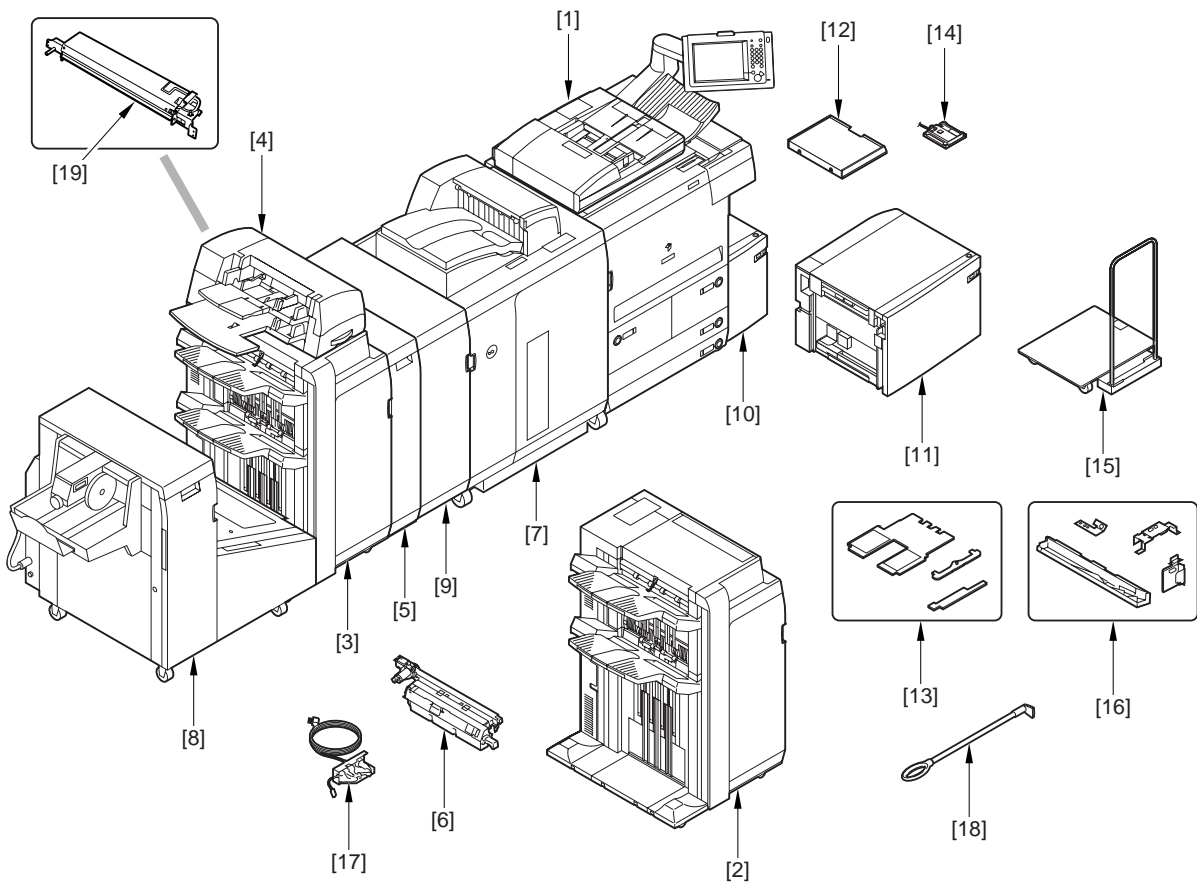
F-7-3

7.2 System Construction

7.2.1 System Configuration with Input/Output Accessories

iR7105 / iR7095 / iR7086 /


The following shows a typical system configuration:



F-7-4

- [1] DADF-Q1/M1 (standard)
- [2] Finisher-V1
- [3] Saddle Finisher-V2
- [4] Document Insertion Unit-C1
- [5] Paper Folding Unit-D1
- [6] Punch Unit-U1/V1/W1/X1

- [7] High Capacity Stacker-A1
 - [8] Booklet Trimmer-B1
 - [9] Professional Puncher-A1
 - [10] Paper Deck-W1
 - [11] Paper Deck-X1
 - [12] Document Tray-L1
 - [13] Tab Feeding Attachment-A1 (standard)
 - [14] Card Reader-D1
 - [15] Stacker Dolly-A1
 - [16] Double Feeding Detection Kit-A1
 - [17] Finisher Option Power Supply Unit-R1
 - [18] ADF Access Handle-A1
 - [19] Inserter Attachment Kit-A1
-

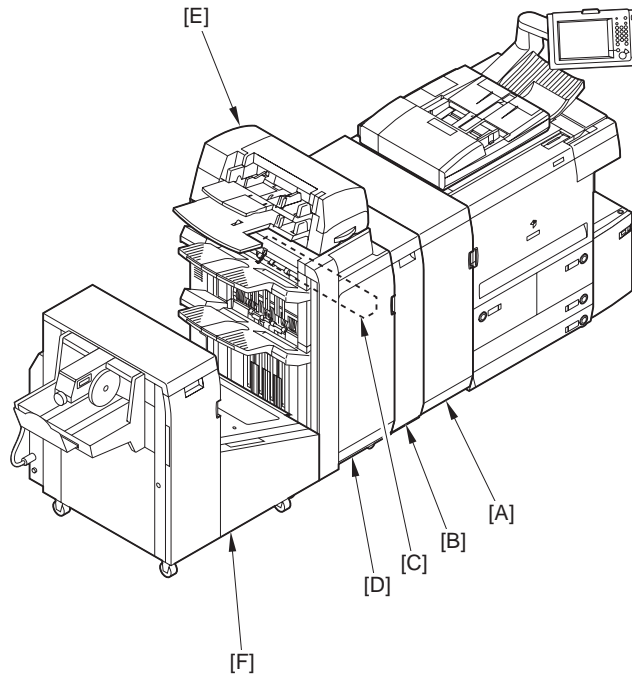
 Not all products are necessarily available in all sales areas.

7.2.2 Combination of Delivery Accessories

iR7105 / iR7095 / iR7086 /

3 Possible Combinations

1. Main Unit + Finisher



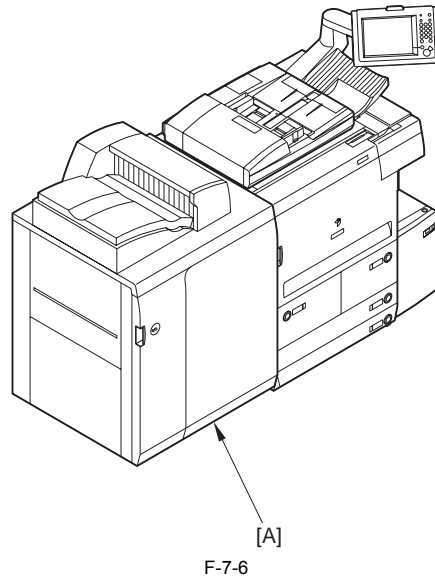
F-7-5

[A] Professional Puncher (outside Japan)
 [B] Paper Folding Unit
 [C] Punch Unit

[D] Finisher
 [E] Insertion Unit
 [F] Booklet Trimmer

- * Either a professional puncher or a punch unit may be used.
- * A trimmer must be used in combination with a saddle finisher.
- * If the use of an inserter is planned, an Inserter Mounting Kit will be needed.

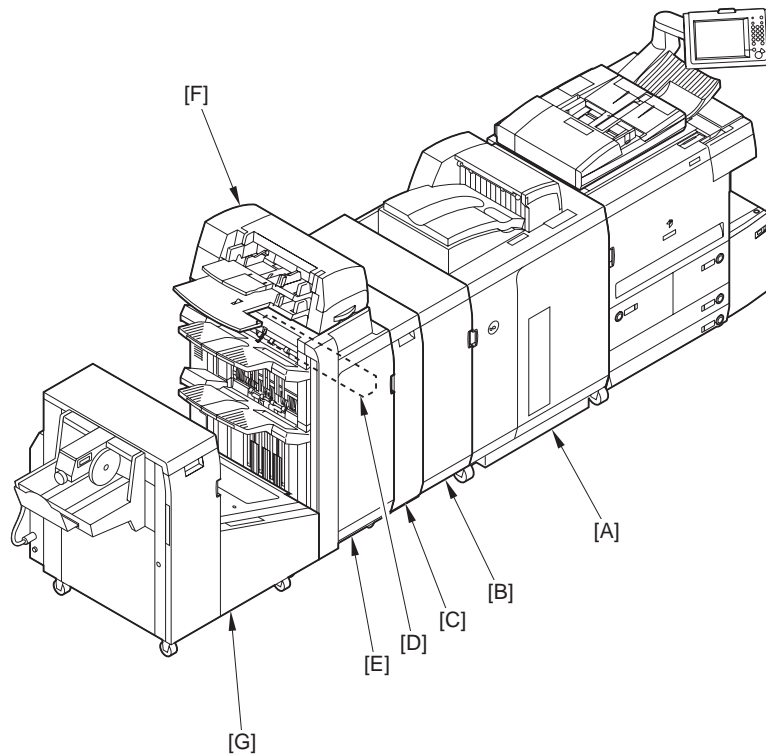
2. Main Unit + High Capacity Stacker



F-7-6

[A] High Capacity Stacker

3. Main Unit + High Capacity Stacker + Finisher



F-7-7

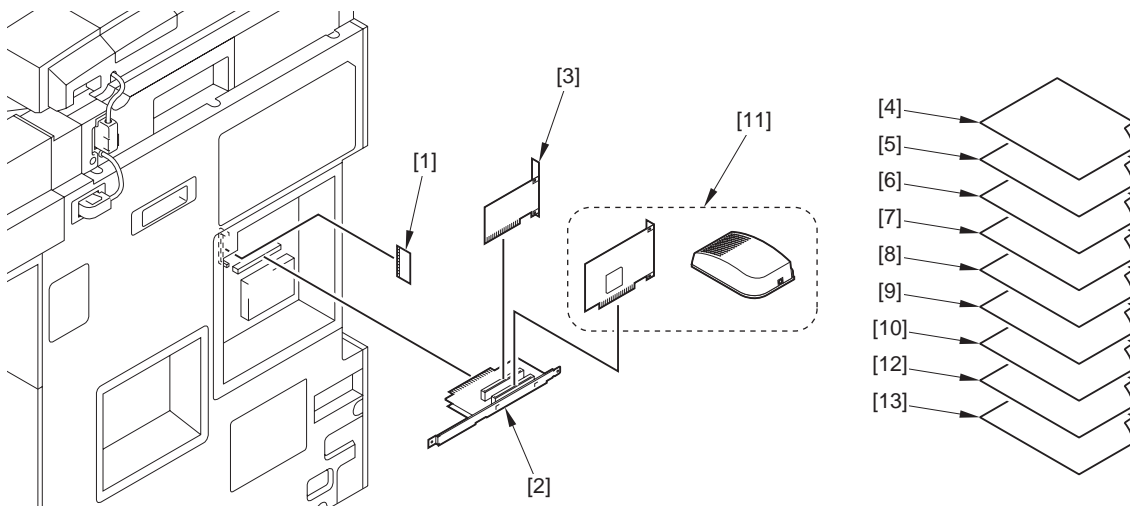
- | | |
|--|---------------------|
| [A] High Capacity Stacker | [E] Finisher |
| [B] Professional Puncher (outside Japan) | [F] Insertion Unit |
| [C] Paper Folding Unit | [G] Booklet Trimmer |
| [D] Punch Unit | |

- * Either a professional puncher or a punch unit may be used.
- * A trimmer must be used in combination with a saddle finisher.
- * If the use of an inserter is planned, an Inserter Mounting Kit will be needed.

7.2.3 System Configuration with Printing/Transmission Accessories

iR7105 / iR7095 / iR7086 /

The following is a diagram of the system configuration:



F-7-8

- | |
|--|
| [1] Multi-PDL Printer Kit-H1 (Boot) |
| [2] Expansion Bus-D1 |
| [3] Security Expansion Board-F1 |
| [4] iR Security Kit-A2 (license certificate) |
| [5] Universal Send Kit-E1 (license certificate) |
| [6] Universal Send PDF Encryption Kit-B1 (license certificate) |
| [7] Universal Send Searchable PDF Kit-A1 (license certificate) |

- [8] Encrypted Printing Software-A3 (license certificate)
- [9] Web Access Software-C1 (license certificate)
- [10] Remote Operators Software Kit-A1 (license certificate)
- [11] Voice Guidance Kit-A2
- [12] Barcode Printing Kit-B1 (license certificate)
- [13] Security Mark-A1 (license certificate)

7.2.4 Functions of Printing/Transmission Accessories

iR7105 / iR7095 / iR7086 /

The following shows the accessories needed for individual functions:

T-7-2

UFR II/PCL/PS printing + PDF/Tiff direct printing	==>	Multi-PDL Printer Kit-H1
transmission	==>	Univrsal Send Kit-E1
security function (HDD formatting + encryption)	==>	Security Expansion Board-F1 Expansion Bus-D1 iR Security Kit-A2
encryption PDF function	==>	Univrsal Send Kit-E1 Universal Send PDF Encryption Kit-B1
searchable PDF function	==>	Univrsal Send Kit-E1 Universal Send Searchable PDF Kit-A1
voice guidance	==>	Voice Guidance Kit-A2 Expansion Bus-D1
remote operation	==>	Remote Operators Software Kit-A1
web browsing	==>	Web Access Software-C1
barcode printing	==>	Multi-PDL Printer Kit-H1 Barcode Printing Kit-B1
secure printing	==>	Encrypted Printing Software-A3
security mark printing	==>	Security Mark-A1

7.3 Product Specifications

7.3.1 Product Specifications

iR7105 / iR7095 / iR7086

Body	Console
Copyboard	Fixed
Light source type	Xenon lamp
Lens type	fixed array
Photosensitive medium	Amorphous silicon drum (108-mm dia.)
Reproduction method	indirect static charging
Charging method	by corona
Exposure method	by 4-beam laser
Copy density adjustment function	Auto or manual
Development method	dry, 1-component toner projection
Pickup method	- Paper deck (2 cassettes; right deck, left deck) - Cassette (2 cassettes; cassette 3, caste 4) - Manual feed tray
Cassette pickup method	Separation retard
Paper deck pickup method	Separation retard
Multifeeder pickup method	Separation retard
Transfer method	corona transfer, post charging/exposure
Separation method	Electrostatic
Drum cleaning method	Blade + magnet roller
Fixing method	Heat roller
Counter	Soft counter
Toner type	Magnetic, positive toner
Toner supply type	Toner bottle
Original type	Sheet, book, 3-D object (2 kg max.)
Maximum original size	A3/279.4 x 431.8 mm (11 x 17)
Reproduction ratio	100% (1:1), reduce (1:0.250, 1:0.500, 1:0.611, 1:0.707, 1:0.816, 1:0.865), enlarge (1:1.154, 1:1.224, 1:1.414, 1:2.000, 1:4.000), zoom (1:0.250 to 4.000) (25% to 400%:in increments of 1%)
Fine adjustment of reproduction ratio	for 100%, in user mode
Warm-up time	6 min or less (20 deg C, rated input)
First print time	feeder: 4.1 sec (stream reading, right deck (manual), 1 original, 100%, A4/LTR, non-AE, straight delivery, lamp pre-heating included) copyboard: 2.8 sec (book mode, right deck, manual, 100%, A4/LTR, non-AE, straight delivery, lamp pre-heating not included)

Continuous reproduction	1 to 9999 prints
Reading speed	iR7105/7095 single-sided: 85 ipm double-sided: 40 ipm iR7086 single-sided: 68 ipm double-sided: 46 ipm
Printing speed	iR7105: 105 ppm iR7095: 95 ppm iR7086: 86 ppm
Reading resolution	600dpi X 600dpi
Printing resolution	1200 (equivalent) x 600 dpi
Gradation	256 gradations
Paper deck capacity	right/left: 1500 sheets (80 g/m2 paper)
Cassette capacity	cassette 3/4: 550 sheets (80 g/m2 paper)
Multifeeder tray capacity	manual feeder tray: 50 sheets (80 g/m2 paper)
Hard disk	40GB
Non-image width (leading edge)	Direct/R-E: 4.0 + 1.5/-1.0 mm (when an ADF is used: 4.0 +/-1.8 mm/-1.4 mm)
Non-image width (trailing edge)	Direct/R-E: 2.5 +/-1.5 mm (when an ADF is used: 2.5 +/-1.8mm)
Non-image width (left/right)	Direct/R-E: 2.5 +/-1.5 mm (when an ADF is used: 2.5 +/-1.8mm)
Image margin (leading edge)	Direct/R-E: 4.0 + 1.5/-1.0 mm (when an ADF is used: 4.0 +/-1.5/-1.0 mm)
Image margin (trailing edge)	Direct/R-E: (one-sided) 2.5 +/-1.5 mm (when an ADF is used: 2.5 +/-1.5 mm) Direct/R-E: (two-sided) 2.5 +/-2.0 mm (when an ADF is used: 2.5 +/-2.0 mm)
Image margin (left/right)	Direct/R-E: 2.5 + 1.5 mm (when an ADF is used: 2.5 +/-1.5mm) (on left, 0.5 mm or more)
Auto Clear	yes (2 min standard; may be varied between 0 and 9 min in 1-min increments)
Auto power off	No
Low-power mode	yes (15 min standard; may be varied for following in user mode: 10, 15, 20, 30, 40, 50, 60, 90 min; 2, 3, 4 hr)
Sleep mode	yes (60 min standard; may be varied for following in user mode: 10, 15, 20, 30, 40, 50, 60, 90 min; 2, 3, 4 hr)
Energy save mode	yes (-10% standard; may be varied for following in user mode: -10%, -25%, -50%; 0% if no return)
Option	See "System Configuration."
Operating environment (temperature range)	See Installation>Selecting the Site of Installation.
Operating environment (humidity range)	See Installation>Selecting the Site of Installation.
Operating environment (atmospheric pressure)	810.6 to 1013.3 hpa (0.8 to 1.0 atm)
Power supply rating	200 V/15 A (50/60 Hz) 208 V/12 A (60 Hz) 230 V/13 A (50 Hz)
Power consumption (maximum)	2.5 kw or less
Noise	during copying: 79 dB or less; during standby: 63 dB or less
Ozone	initially, 0.02 ppm or less avr and 63 dB or less during standby over time (after 250,000 prints), 0.05 ppm or less avr, 0.10 ppm or less max.
Dimensions	1163 mm (W) x 795 (D) x 1430 (H) mm approx.
Weight	280 kg (approx.; including ADF)
Environmental consideration	drum heater: standard for all models cassette heater (common for all): standard for 100/200V model; not offered for 208V model; offered as service part for 230V model reader heater (common for all): optional for 100/200V model; not offered for 208V model; offered as service part for 230V model deck heater (common for all): optional for 100/200V model; not offered for 208V model; offered as service part for 230V model

7.4 Function List

7.4.1 Print Speed

iR7105 / iR7095 / iR7086 /

The value in brackets <> represents the iR7095.

The value in brackets [] represents the iR7086.

- AB

Enlargement/reduction		Size	Paper size	Copies/min (1-to-N)	
				cassette/deck	manual feeder
Direct		A3 (297 x 420 mm)	A3	53 <50> [44]	50 <47> [44]
		A4 (210 x 297 mm)	A4	105 <95> [86]	90 <90> [86]
		B4 (257 x 364 mm)	B4	62 <59> [56]	57 <56> [55]
		B5 (182 x 257 mm)	B5	105 <95> [86]	90 <90> [86]
		A4R (297 x 210 mm)	A4R	72 <68> [63]	72 <68> [63]
		B5R (257 x 182 mm)	B5R	84 <79> [73]	80 <78> [73]
		A5R (210 x 148 mm)	A5R	100 <95> [86]	90 <90> [86]
Reduce	II (50.0 %)	A3 -> A5R	A5R	100 <95> [86]	90 <90> [86]
	III (61.1 %)	A3 -> B5R	B5R	84 <79> [73]	80 <78> [73]
	IV (70.7 %)	B4 -> B5R	B5R	84 <79> [73]	80 <78> [73]
		A3 -> A4R	A4R	72 <68> [63]	72 <68> [63]
	V (81.6 %)	B4 -> A4R	A4R	72 <68> [63]	72 <68> [63]
		B5R -> A5R	A5R	100 <95> [86]	90 <90> [86]
	VI (86.5 %)	A4 -> B5	B5	105 <95> [86]	90 <90> [86]
Enlarge	IV (200.0 %)	A3 -> A5R	A5R	100 <95> [86]	90 <90> [86]
		A4R -> A3	A3	53 <50> [44]	50 <47> [44]
	III (141.4 %)	B5R -> B4	B4	62 <59> [56]	57 <56> [55]
		A4R -> B4	B4	62 <59> [56]	57 <56> [55]
	II (122.4 %)	A5 -> B5	B5	105 <95> [86]	90 <90> [86]
		A3 -> B4	B4	62 <59> [56]	57 <56> [55]
	I (115.4 %)	B4 -> A3	A3	53 <50> [44]	50 <47> [44]
	B5 -> A4	A4	105 <95> [86]	90 <90> [86]	

Delivery from copier, auto paper select, density auto adjust, non-sort, deck/cassette

- Inch

T-7-4

Enlargement/reduction		Size	Paper size	size Copies/min (1-to-N)	
				cassette/deck	manual feeder
Direct		279.4 x 431.8 mm (11 x 17)	279.4 x 431.8 mm (11 x 17)	53 <49> [43]	49 <46> [43]
		LTR	LTR	105 <95> [86]	90 <90> [86]
		LTR (index sheet)	LTR (index sheet)	95 <87> [80]	79 <79> [79]
		LGL	LGL	63 <60> [57]	59 <56> [52]
		LTRR	LTRR	77 <72> [67]	75 <72> [67]
		STMTR	STMTR	100 <95> [86]	90 <90> [86]
		Reduce	II (50.0 %)	279.4 x 431.8 mm (11 x 17) -> STMTR	STMTR
III (64.7 %)	279.4 x 431.8 mm (11 x 17) -> LTRR		LTRR	77 <72> [67]	76 <72> [67]
IV (73.3 %)	279.4 x 431.8 mm (11 x 17) -> LGL		LGL	63 <60> [57]	59 <56> [52]
V (78.6 %)	LGL -> LTRR		LTRR	77 <72> [67]	76 <72> [67]
Enlarge	III (200.0 %)	STMTR* -> 279.4 x 431.8 mm (11 x 17)	279.4 x 431.8 mm (11 x 17)	53 <49> [43]	49 <46> [43]
	II (129.4 %)	LTRR -> 279.4 x 431.8 mm (11 x 17)	279.4 x 431.8 mm (11 x 17)	53 <49> [43]	49 <46> [43]
	I (121.4 %)	LGL -> 279.4 x 431.8 mm (11 x 17)	279.4 x 431.8 mm (11 x 17)	53 <49> [43]	49 <46> [43]

Delivery from copier, auto paper select, density auto adjust, non-sort, deck/cassette

* The ADF does not accommodate STMTR originals.

The values in the foregoing tables are subject to change for product revisions.

7.4.2 Paper Type

iR7105 / iR7095 / iR7086 /

T-7-5

Type	Size	Source		
		cassette	deck (left/right)	manual feeder
Plain paper (64 to 90g/m2) Recycled paper Colored paper Heavy paper (91 to 200g/m2) Bond paper Letterhead	A3, B4, A4R, A5R, B5R, 11"x17", LGL, LTRR, STMTR, 8K, 16K	yes	no	yes
	A4, B5, LTR	yes	yes	yes
	EXEACTIVE	no	no	yes

Type		Size	Source		
			cassette	deck (left/right)	manual feeder
Special paper	Transparency	A4, A4R, LTR, LTRR	no	no	yes
	Postcard	Postcard, Reply Postcard, 4 on 1 Pcard	no	no	yes
	label sheet	A4, A4R, B4, LTR, LTRR	no	no	yes
	index sheet	A4, LTR	yes	no	no
	Tracing paper	A3, B4, A4R, A4	no	no	yes
	3-hole paper	A4, LTR	yes	yes	yes
	Card Stock	4"x6", 5"x8"	no	no	yes

Chapter 8 Upgrading

8.1 Upgrading

8.1.1 Overview of Upgrading Work

iR7105 / iR7095 / iR7086 /

The machine and its system software options may be upgraded as follows:

- downloading from a PC to which the Service Support Tool (SST) has been installed
- downloading from a USB device
- replacing the DIMM-ROM

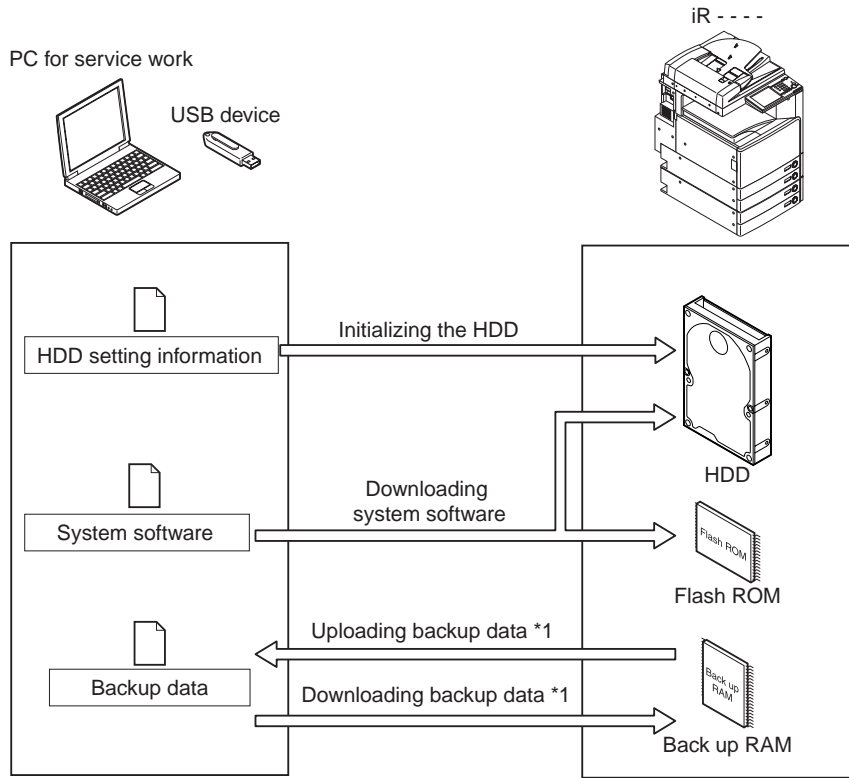
T-8-1

Machine	System software type	Upgrading tool			SST display		Remarks
		SST	USB	Other	Product name	System software name	
Host Machine	main controller	yes	yes	-	iR7105	SYSTEM	
	language module	yes	yes	-		LANGUAGE	
	remote UI content	yes	yes	-		RUI	
	boot program	yes	yes	replacing the DIMM-ROM		BOOT	
	MEAP library	yes	yes	-		MEAPCONT	
	voice dictionary	yes	yes	-		TTS	used when adding the Voice Guidance Kit (optional)
	Web browser	yes	yes	-		BROWSER	used when adding the Web Browser Kit (optional)
	DC controller	yes	yes	-		DCON	
	reader controller (DADF-Q1 model)	yes	yes	-	RCON	DADF-Q1 model outside Japan: iR7105/7095 inside Japan: iR7105i/7095i/7086N	
	reader controller (DADF-M1 model)	yes	yes	-	iR5570	RCON	DADF-M1 model outside Japan: iR7086 controls also ADF mechanisms
	OCR dictionary	yes	yes	-	iRYYYY	SDICT	used when adding the Searchable PDF Kit (optional)
encryption communication key/certificate/CA certificate	yes	yes	-	KEY		used for SSL communication/e-RDS communication	
ADF (DADF-Q1)	ADF controller	yes	-	-	ADFY4	CPU	requires a special service tool (downloader PCB; FY9-2034)
Finisher	finisher controller	yes	yes	-	FIN_V	FIN_CON	
inserter	inserter	yes	yes	-	FIN_V	INSRTR	
Trimmer	trimmer	-	-	special software (PC in use)	-	-	- special software supplied together with the system software - calls for a PC possessing an RS232C interface
Professional Puncher	professional puncher	-	-	HyperTerminal (PC in use)	-	-	- non-Japanese model only - special software supplied together with the system software - calls for a PC possessing an RS232C interface - HyperTerminal comes standard with Windows
Hi-Capacity Stacker	stacker controller	yes	yes	-	HSTK_A1	STK	
	network controller	yes	yes	-	HSTK_A1	OP_CON	

8.1.2 Outline of the Functions and Operations

iR7105 / iR7095 / iR7086 /

When connected to a PC (to which the SST and system software have been installed) and USB device (to which system software has been copied), the machine provides the following functions:



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*1: Not when USB is in use.

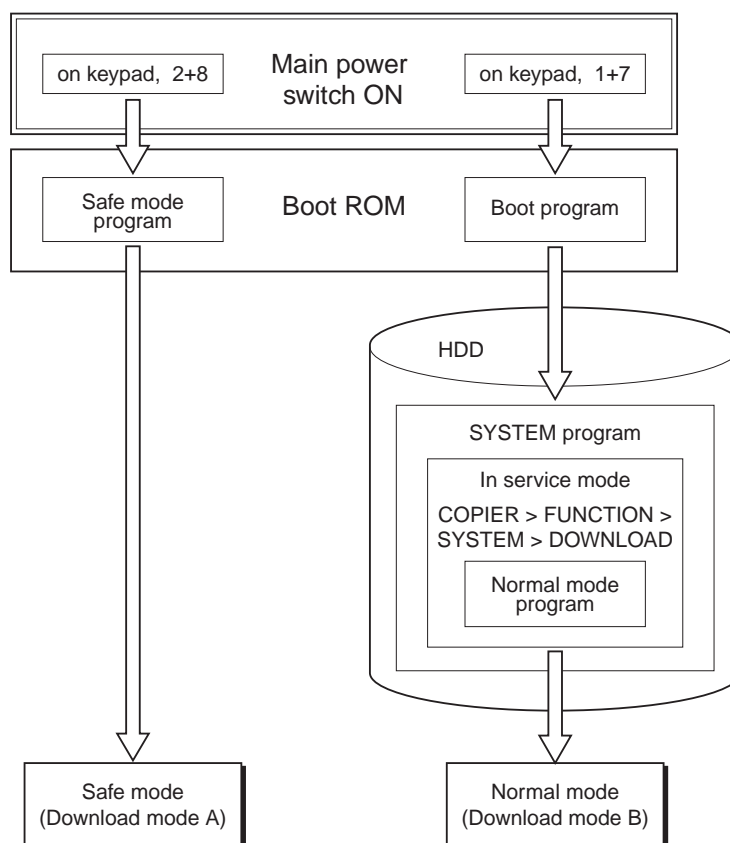
To use these functions, the machine must be in download mode, which may be either of the following:

- Normal Mode (download mode B)

Turn on the main power while holding down the keys 1+7; then, make the following selections in service mode: COPIER > FUNCTION > SYSTEM > DOWN-LOAD.

- Safe Mode (download mode A)

Turn on the main power while holding down the keys 2+8.



F-8-2



Use safe mode for the following:
 - after replacing the HDD
 - when the system fails to start up normally

The following shows combinations of download modes and functions:

T-8-2

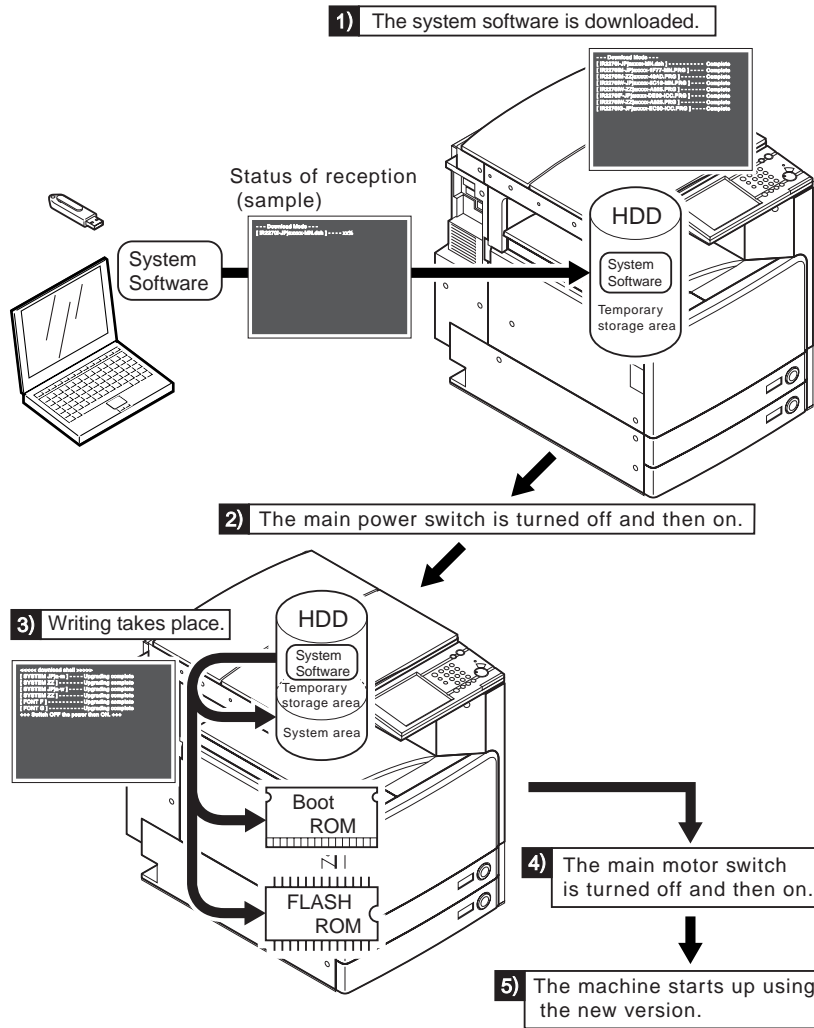
Function	Download mode	
	Normal mode (download mode B)	Safe mode (download mode A)
Formatting the HDD	- -	All BOOTDEV
Downloading the system software *1	System Language RUI Boot Dcon Rcon SDICT MEAPCONT KEY TTS BROWSER FIN_CON INSRTR STK OP_CON	System Language RUI Boot Dcon Rcon SDICT MEAPCONT KEY TTS BROWSER FIN_CON INSRTR STK OP_CON
Uploading/downloading of backup data *2	- - SramRCON SramDCON	SramImg Meapback - -

*1: Not all software to download may be selected for downloading while USB is in use.

*2: Not when USB device is in use.

Installing the System Software

When downloaded, the system software is stored in the temporary storage area of the HDD. At the end of downloading, the main power switch must be turned off and then back on, thus restarting the machine and writing the system software to both system area and flash ROM from the temporary storage area. When the main power switch is turned off and then back on once again, the machine will start up using the new system software.



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8.1.3 Points to Note at Time of Downloading

iR7105 / iR7095 / iR7086 /

⚠ Do Not Turn Off the Power During Download/Write Operation

Do not turn off the power while the system software is being downloaded/written. Otherwise, the machine may fail to start up when its power is turned back on. (If such is the case, execute HDD formatting, and download the system software. In the case of a boot ROM, replace the DIMM-ROM.)

⚠ Points to Note About Upgrading the DC Controller/Reader Controller

The DC controller/reader controller may be downloaded in either in normal mode or in safe mode. If done in safe mode, however, the controller version information cannot be obtained, causing the data retained by the SST to be written over. It is a good idea, therefore, to use normal mode (so that the software will not be replaced with software of a previous version).

Feb 3 2006

