

Portable Manual

MF9100 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 Periodically Replaced Parts

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

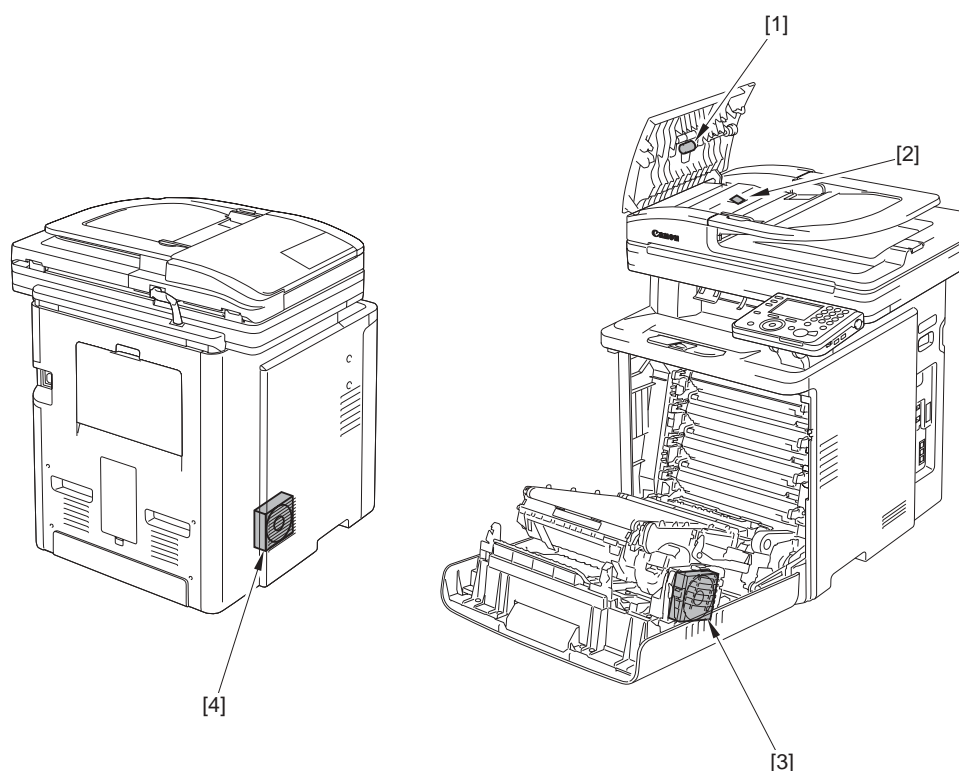
This machine does not have parts that require periodical replacement.

1.2 Durables and Consumables

1.2.1 Expected Service Life of Consumable Parts

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

Some parts of the machine are likely to require replacement once or more because of wear or damage. Replace them when they are found to be faulty by referring to the following table:



F-1-1
T-1-1

No	Parts name	Parts No.	Q'ty	Estimated life
[1]	ADF separation roller	FL2-6637	1	50,000 sheets
[2]	ADF separation pad	FC7-6297	1	50,000 sheets
[3]	Duplex fan	RK2-0954	1	25,000 hours
[4]	Main body fan	RK2-0954	1	25,000 hours

*: The estimated life in the case of continuous power distribution at 24 hours/day for 25,000 hours is nearly equivalent to 3 years.
(It is nearly equivalent to 5 years in the case of power distribution at 14 hours/day.)

1.3 Scheduled Servicing Basic Procedure

1.3.1 Periodic Service

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

This machine does not have parts that require periodic servicing.

Chapter 2 Standards and Adjustments

2.1 Scanning System

2.1.1 Procedure after Replacing the Copyboard Glass

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

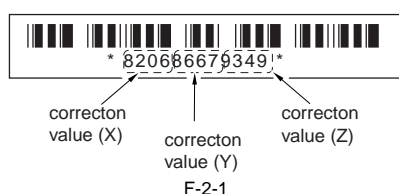
After replacing the copyboard glass, enter the correction values (X, Y, Z) of the standard white plate which are indicated on the back of the new copyboard glass in the service mode.

Correction value (X): Service mode> COPIER> ADJUST> CCD> WPLT-X

Correction value (Y): Service mode> COPIER> ADJUST> CCD> WPLT-Y

Correction value (Z): Service mode> COPIER> ADJUST> CCD> WPLT-Z

Also, rewrite the values in the service book.



F-2-1

2.2 Fixing System

2.2.1 Checking the Nip Width (fixing pressure roller)

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

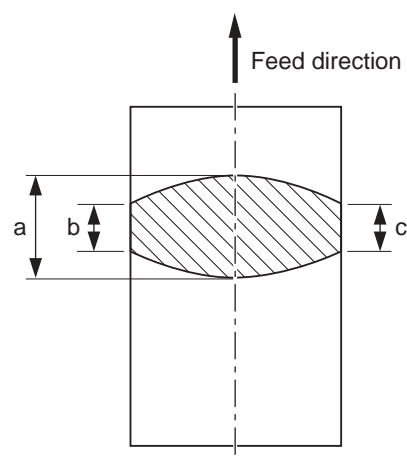


When removing a paper, be sure to turn on the power supply and remove it after checking that jam has occurred in the machine.
Take notice that removing a paper with no jam occurred in the machine may cause a broken fixing film.

An incorrect nip width may cause the faulty fixing.

Check the nip width by following the procedure below if poor fixing image defect occurs.

- 1) Make an all solid black print of A4 or Letter size using a toner cartridge same as for this machine, and take the print to the customer's site.
- 2) Place the solid black print, with the printed side facing DOWN, in the cassette of the printer.
- 3) Press the test print switch.
- 4) Open the upper cover as soon as the leading edge of the paper appears in the delivery slot. Leave it for ten seconds.
- 5) Turn OFF the machine and take fixing unit from the machine. Then take the paper out from the fixing unit.
- 6) Measure the width of the glossy band across the paper and check that it meets the requirements as shown in Figure.
 - Center (a): 8 +/- 1.0 mm
 - Difference between right/left and center (a-b, a-c): 0 to 1 mm
 - Difference between right and left (b-c): 1.5 mm or less



Center of A4 or Letter sized paper

F-2-2

Replace the fixing unit if the nip width is out of specification, since the nip width of the fixing unit is not adjustable in this machine.

2.3 Electrical Components

2.3.1 Procedure after Replacing the DC controller PCB

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

In the case that the DC controller PCB has been replaced, execute the following procedure.

- 1) Execute the service mode> COPIER> FUNCTION> VIFFNC> RSTR-DCN to restore the backup data stored in EEPROM of the main controller PCB.
- 2) Execute Additional Functions> Report Settings> Print List> User's Data List to print the user's data list.
- 3) Execute Additional Functions> Adjustment/Cleaning> Auto Gradation Correction> Full Correction.

2.3.2 Procedure after Replacing the Main Controller PCB

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

If you have replaced the main controller PCB with a new one, perform the following operations:

- Using the service support tool, download the latest firmware (System/Boot) and language files.
- Delete the languages not used at the destination (Service mode> CLEAR> FILE SYSTEM).
- Input the all value printed on the service label affixed to the rear cover.

Make the following adjustments:

a. Correction of output between CIS channels

- 1) Enter the service mode.
Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 2) Press the arrow key on the control panel to display "TEST MODE".
- 3) Press [OK].
- 4) Press the [2] key to display "SCAN TEST".
- 5) Press the [1] key to display "SHADING".
- 6) Press [OK].
After completion of the above procedure, the CCD output is compensated and parameters are set automatically.
After completion of automatic adjustment, "OK" is displayed.

b. Read position adjustment

- 1) Enter the service mode.
Sequentially press the Additional functions key, 2 key, 8 key, and Additional functions key on the operation panel.
- 2) Press the arrow key on the control panel to display "TEST MODE".
- 3) Press [OK].
- 4) Press the [2] key to display "SCAN TEST".
- 5) Press the [3] key to display "SHEET POS ADJ".
- 6) Press [OK].
The optical system starts scanning. Several seconds later, automatic adjustment of the reading position finishes and "OK" appears.



If automatic adjustment fails, "NG" appears. Perform the following procedure:
Clean the white board of the ADF and the document glass of the reader, and then retry auto adjustment.

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

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



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

a. Exporting user data

- 1) Output a user data list in the following user mode.
Additional Functions> Report Setting > Print List > User Data List
- 2) Press the following keys to enter the service mode.
Main Menu> 2, 8 key> Main Menu
- 3) Select COPIER> FUNCTION> PARAM> SYS-SW> SW03, and then press the OK.
Message: SW03 00001000
- 4) Position the cursor at Bit-6 (second from left) using ◀ or ▶, and then press the 1 key.
Message: SW03 01001000
- 5) Press the OK key. Check that "SW003" changes to "SW004".
Message: SW04 00000000
- 6) Press the Reset key to exit the service mode.
- 7) Turn off the main power switch, and then turn it on again.
- 8) Start the PC and connect it to this machine with a USB cable.
- 9) Open My Computer on the PC to check that the "Removable Disk" icon is displayed.
If the "Removable Disk" icon is not displayed, repeat the above procedure starting with step 1.
- 10) Double-click the "Removable Disk" icon, and then copy the user data (address_book.abk and user_data.dat) onto the Desktop.
- 11) Close the window on the Desktop.
- 12) Turn off the main power switch of this machine.
- 13) Disconnect the USB cable from this machine.

b. Importing user data

- 1) Press the following keys to enter the service mode.
Main Menu> 2, 8 key> Main Menu
- 2) Select COPIER> FUNCTION> PARAM> SYS-SW> SW03, and then press the OK.
Message: SW03 00001000
- 3) Check that Bit-6 (second from left) is set to set to "1".
If Bit-6 is not set to "1", position the cursor at this bit using ◀ or ▶, and then press the 1 key.
Message: SW03 01001000
- 4) Press the OK key. Check that "SW003" changes to "SW004".
Message: SW04 00000000
- 5) Press the Reset key to exit the service mode.
- 6) Turn off the main power switch, and then turn it on again.
- 7) Open My Computer on the PC to check that the "Removable Disk" icon is displayed.
- 8) Write the user data (address_book.abk and user_data.dat) copied onto the Desktop as described in "a. Exporting user data" over the removable disk.
- 9) Disconnect the USB cable from the machine.
- 10) Turn off the main power switch, and then turn it on again.
- 11) Perform steps 1) to 4) again to reset Bit-6 of "SW003" to "0".
- 12) Press the OK key. When "SW003" changes to "SW004", press the Reset key to exit the service mode.
- 13) Check the user data list output as described in "a. Exporting user data" to make sure that the user data has been loaded into the machine properly.

Chapter 3 Error Code

3.1 Error Code Details

3.1.1 Error Code Details

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-3-1

Code	Description	Action
E000	Error in start-up of fixing assembly	
0000	<p>Description When 1 sec passed after energization of the heater, the detected temperature of the main thermistor is not 5 deg C or more (0 deg C at power on).</p> <p>Cause Disconnection of main thermistor, disconnection of fixing heater, error in DC controller PCB.</p>	<ul style="list-style-type: none"> - Check of the connector of the low-voltage power supply PCB - Replacement of fixing film unit - Replacement of DC controller PCB
E001	Error in overheating of fixing assembly	
0000	<p>Description The status where the detected temperature of the main thermistor is 225 deg C (approx. 0.84V equivalent) or more is detected for 0.5 continuous sec or more.</p> <p>Cause Error in main thermistor, error in DC controller PCB.</p>	<ul style="list-style-type: none"> - Check of the connector of the low-voltage power supply PCB - Replacement of fixing film unit - Replacement of DC controller PCB
0001	<p>Description The status where the detected temperature of the sub thermistor is 245 deg C (approx. 2.12V equivalent) or more is detected for 0.5 continuous sec or more.</p> <p>Cause Error in sub thermistor, error in DC controller PCB.</p>	
E003	Error in abnormally low temperature of fixing assembly	
0000	<p>Description The status where the detected temperature of the main thermistor is 100 deg C (approx. 2.60V equivalent) or less is detected for 0.5 continuous sec or more.</p> <p>Cause Error in low-voltage power supply PCB, disconnection of main thermistor, error in DC controller PCB.</p>	<ul style="list-style-type: none"> - Replacement of low-voltage power supply PCB - Replacement of fixing film unit - Replacement of DC controller PCB
0001	<p>Description The status where the detected temperature of the sub thermistor is less than 100 deg C (approx. 0.38V equivalent) is detected 0.5 continuous sec or more after energization of the heater.</p> <p>Cause Error in sub thermistor, error in DC controller PCB.</p>	<ul style="list-style-type: none"> - Check of the connector of the low-voltage power supply PCB - Replacement of fixing film unit - Replacement of DC controller PCB
E004	Error in fixing power supply drive circuit	
0000	<p>Description Cannot detect the zero cross signal for the specified period or more.</p> <p>Cause Error in fixing control circuit block.</p>	<ul style="list-style-type: none"> - Replacement of low-voltage power supply PCB

Code	Description	Action
E012	Error in activation of motor	
0000	<p>Description When 3.5 sec passed after activation of ETB motor, the cycle of ETB motor speed detection signal does not become its specified value.</p> <p>Cause Error in ETB motor, error in DC controller PCB.</p>	<p>- Replacement of ETB motor - Replacement of DC controller PCB</p>
0001	<p>Description After ETB motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in ETB motor, error in DC controller PCB.</p>	
0002	<p>Description When 2.5 sec passed after activation of the yellow drum motor, the cycle of drum motor speed detection signal does not become its specified value.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	<p>- Replacement of drum motor - Replacement of DC controller PCB</p>
0003	<p>Description After the yellow drum motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0004	<p>Description When 2.5 sec passed after activation of the magenta drum motor, the cycle of drum motor speed detection signal does not become its specified value.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0005	<p>Description After the magenta drum motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0006	<p>Description When 2.5 sec passed after activation of the cyan drum motor, the cycle of the drum motor speed detection signal does not become its specified value.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0007	<p>Description After the cyan drum motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0008	<p>Description When 2.5 sec passed after activation of the black drum motor, the cycle of the drum motor speed detection signal does not become its specified value.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
0009	<p>Description After the black drum motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in drum motor, error in DC controller PCB.</p>	
E014	Error in activation of fixing motor	
0000	<p>Description When 2.5 sec passed after activation of fixing motor, the cycle of the fixing motor speed detection signal does not become its specified value.</p> <p>Cause Error in fixing motor, error in DC controller PCB.</p>	<p>- Replacement of fixing motor - Replacement of DC controller PCB</p>
0001	<p>Description After the fixing motor speed detection signal became the specified value of the cycle, it exceeds the specified cycle for 2 continuous sec or more.</p> <p>Cause Error in fixing motor, error in DC controller PCB.</p>	
E015	Failure in developing disengagement	
0000	<p>Description Developing cylinder disengagement mechanism does not function correctly.</p> <p>Cause Developing disengagement mechanism fault, developing disengagement solenoid fault, developing disengagement sensor fault, DC controller PCB fault.</p>	<p>Check the developing disengagement mechanism. Replace developing disengagement solenoid. Replace developing disengagement sensor. Replace DC controller PCB.</p>
E020	Error in density sensor	

Code		Description	Action
	0000	Description Cannot receive enough light when detecting image density. Cause Dirt on density sensor, error in density sensor, error in DC controller PCB, error in toner cartridge.	- Replacement of ETB unit - Error in high-voltage joint (Check high-voltage joint for each color, and each joint to high-voltage PCB) - Replacement of DC controller - Replacement of toner cartridge

Code	Description	Action
E024	Toner level sensor failure	
0000	Description Failure output from the toner level sensor (Yellow). Cause Memory controller PCB assembly fault, DC controller PCB assembly fault, toner cartridge fault.	<ul style="list-style-type: none"> - Replace toner cartridge - Replace memory controller PCB assembly - Replace DC controller PCB assembly
0001	Description Failure output from the toner level sensor (Magenta). Cause Memory controller PCB assembly fault, DC controller PCB assembly fault, toner cartridge fault.	
0002	Description Failure output from the toner level sensor (Cyan). Cause Memory controller PCB assembly fault, DC controller PCB assembly fault, toner cartridge fault.	
0003	Description Failure output from the toner level sensor (Black). Cause Memory controller PCB assembly fault, DC controller PCB assembly fault, toner cartridge fault.	
E066	Error in environment sensor	
0000	Description Failure in environment sensor. Cause Environment sensor fault, DC controller PCB assembly fault.	<ul style="list-style-type: none"> - Replace environment sensor - Replace DC controller PCB assembly
E078	Error in primary transfer estrangement unit	
0000	Description Primary transfer estrangement unit does not function properly. Cause Terminal assembly fault, transfer roller estrangement solenoid fault, EBT unit fault, high-voltage power PCB assembly fault.	<ul style="list-style-type: none"> - Replace ETB estrangement solenoid - Replace ETB unit - Terminal assembly fault (check on every contact between the terminals of each color and the high voltage PCB assembly)
E100	Error in scanner motor, laser unit, BD	
0000	Description Yellow scanner assembly malfunction. Cause Laser scanner unit fault, DC controller PCB assembly fault.	<ul style="list-style-type: none"> - Replace laser scanner unit - Replace DC controller PCB assembly
0001	Description Magenta scanner assembly malfunction. Cause Laser scanner unit fault, DC controller PCB assembly fault.	
0002	Description Cyan scanner assembly malfunction. Cause Laser scanner unit fault, DC controller PCB assembly fault.	
0003	Description Black scanner assembly malfunction. Cause Laser scanner unit fault, DC controller PCB assembly fault.	
0004	Description Failure output of a magenta BD signal Cause laser scanner unit fault, DC controller PCB fault.	Replace laser scanner unit. Replace DC controller PCB.
0005	Description Failure output of a magenta BD signal Cause laser scanner unit fault, DC controller PCB fault.	Replace laser scanner unit. Replace DC controller PCB.
E194	Error in CPR sensor	
0000	Description Cannot detect color displacement detection pattern, detected results fall outside the acceptable range. Cause Dirty color displacement detection sensor, color displacement detection sensor fault, DC controller PCB assembly fault, toner cartridge fault.	<ul style="list-style-type: none"> - Replace ETB unit - Terminal assembly fault (check on every contact between the terminals of each color and the high voltage PCB assembly) - Replace DC controller PCB assembly - Replace toner cartridge
E196	Error in DCON ROM	
0001	Updating the ROM on the DC controller PCB assembly has been failed.	- Replace DC controller PCB assembly
E197	Engine Communication Error	
0000	Internal communication error	<ul style="list-style-type: none"> - Replace DC controller PCB assembly - Replace video controller PCB assembly

Code		Description	Action
E198		DC controller memory malfunction	
	0000	Description DC controller memory malfunction. Cause DC controller PCB assembly fault.	- Replace DC controller PCB assembly

Code	Description	Action
E202	Reader HP sensor fault	
0001	Reader HP outward fault The CCD unit moves backward, but does not move to the home position.	- Replace reader HP sensor. - Replace reader motor sensor. - Replace reader unit.
0002	Reader HP homeward fault The CCD unit moves forward, but does not move to the home position.	- Replace reader HP sensor. - Replace reader motor sensor. - Replace reader unit.
E225	Error in light intensity of the lamp	
0000	Decrease of light intensity of the lamp.	Replace reader unit.
E248	EEPROM access error	
0001	Error at EEPROM power-on EEPROM data cannot be read at power-on.	Replace reader unit.
0002	Error in EEPROM writing EEPROM writing cannot be performed.	Replace reader unit.
0003	Error in EEPROM reading after writing EEPROM reading cannot be performed after writing is performed.	Replace reader unit.
0004	Error in EEPROM register writing EEPROM register writing cannot be performed.	Replace reader unit.
E351	Main controller PCB fault	
0000	Description Internal error of the main controller PCB Cause Main controller PCB fault.	Replace main controller PCB.
E719	Communication error of options	
0000	Erroneous communication with card reader (serial communication) - Disconnection from the card reader has been detected since communication started after confirmation of normal connection to the card reader (after power-on). - A serial communication error has occurred. (The serial communication error cannot be recovered.)	- Check the connectors of the card reader and image processor PCB. - Replace the card reader for normal connection. - Replace the image processor PCB.
0002	Erroneous communication with coin vendor (serial communication) - Disconnection from the coin vendor has been detected since communication started after confirmation of normal connection to the coin vendor (after power-on). - A serial communication error has occurred. (The serial communication error cannot be recovered.)	- Check the connection between the image processor PCB and serial PCB. - Check the connectors of the serial PCB and coin vendor for normal connection. - Replace the serial PCB. - Check the coin vendor. - Replace the image processor PCB.
E744	Language file/boot ROM/USB memory error	
0001	Language file version error The language file version does not match Bootable.	Download a language file of the correct version.
0002	Language file size error The language file is longer than the permitted size.	Download a language file of the correct version.
0003	Language file version error The language file version does not match Bootable.	Download a language file of the correct version.
0004	Language file read error Reading of language file is invalid.	Download a language file of the correct version.
E804	Error in power supply fan	
0000	Description The fan lock detection signal is input for about 10 sec or longer continuously. Cause Power supply fault, DC controller PCB fault.	- Replace the power supply fan - Replace the DC controller PCB
E805	Error in duplexing fan/CPU fan	
0005	Description The duplexing fan lock detection signal is input for about 10 sec or longer continuously. Cause Duplexing fan fault, DC controller PCB fault.	- Replace the duplexing fan - Replace the DC controller PCB
E840	Error in pressure release mechanism	
0000	Description Although passing 2.5 sec from the start of HP control, HP (pressure condition) cannot be controlled. Cause Fixing drive assembly fault, fixing pressure release cam fault.	- Replace the fixing drive assembly - Replace the fixing pressure release cam

3.2 Jam Code

3.2.1 Jam Code (main body)

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-3-5

Code	Name	Sensor No.	Description
0104	Delay jam in paper pickup section	SR710	The registration sensor cannot detect the leading edge of paper from the moment paper pickup starts to the moment the jam detection time is reached.
0208	Stationary jam in paper pickup section	SR710	The registration sensor cannot detect the no paper status specified time before the leading edge of the picked up paper reaches this sensor.
010c	Delay jam in deliver section	SR710, SR6005	<ul style="list-style-type: none"> - The fixing delivery sensor cannot detect presence of paper within the specified time after turning on of the registration clutch. - The fixing delivery sensor detected absence of paper within the specified time after the sensor had detected presence of paper within the specified time after turning on of the registration clutch. - The No.1 delivery sensor cannot detect presence of paper within the specified time after turning on of the fixing delivery sensor.
0210	Stationary jam in delivery section	SR710, SR6005	<ul style="list-style-type: none"> - The fixing delivery sensor cannot detect absence of paper within the specified time after turning off of the registration clutch. - The fixing delivery sensor cannot detect absence of paper within the specified time after the sensor detected the leading edge of paper. - The No.1 delivery sensor cannot detect absence of paper within the specified time after the sensor detected the leading edge of paper.
0214	Stationary jam in machine	SR706, SR710, SR6001, SR6005	Paper was detected in the paper transport path during initial rotation, during automatic delivery, at the end of cleaning, or at reception of an emergency stop command.
1118	Door open jam	SR720	The door was opened when there was printing paper in the transport path.
0221	Reverse section JAM	SR706, SR715	This jam is applied when the double-fed paper drops on the back of the host machine. The machine determines the reverse section jam if the paper length that is detected by the reverse sensor (SR706) is 50mm or more longer than the paper length that is detected by the delivery sensor (SR715).
0228	Reverse re-pickup section jam	SR710	<p>The machine determines the reverse re-pickup jam if the registration sensor (SR710) cannot detect the presence of paper within the specified time (t) after the duplexing pickup starts. Specified time (t) differs depending on the feeding speed.</p> <p>1/1 speed: approx. 2.0 sec 4/5 speed: approx. 2.5 sec 1/2 speed: approx 4.0 sec</p>

3.2.2 Jam Code (ADF)

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-3-6

Code	Name	Sensor No.	Description
0001	ADF paper trailing edge sensor (SR719) not reaching (delay jam)	SR719	<p>The leading edge of paper does not reach the ADF paper trailing edge sensor (SR719) within 1.8 sec after the trailing edge of precedent page passes through the ADF paper trailing edge sensor (SR719) in 1-sided multiple jobs.</p> <p>The leading edge of paper does not reach the ADF paper trailing edge sensor (SR719) within 1.2 sec after reverse operation starts in 2-sided job.</p>
0002	ADF paper trailing edge sensor (SR719) stray (stray jam)	SR719	<p>The trailing edge of paper does not passes through the ADF paper trailing edge sensor (SR719) within 3.4 sec after the leading edge of paper reaches the ADF paper trailing edge sensor (SR719) in 1-sided job.</p> <p>The trailing edge of paper does not passes through the ADF paper trailing edge sensor (SR719) within 3.5 sec after the leading edge of paper reaches the ADF paper trailing edge sensor (SR719) in 2-sided job.</p>
0094	Initial stationary (in-body residual jam)	SR719	The ADF paper trailing edge sensor (SR719) detects paper at power-ON.
0095	Pickup NG	SR718	The paper is removed from the ADF original tray within 0.1 sec after the start key is pressed.

3.3 Alarm Code

3.3.1 Alarm Code (ADF)

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-3-7

Code	Name	Sensor No.	Description
0003H	Separation NG alarm	SR719	The leading edge of paper does not reach the ADF paper trailing edge sensor (SR719) within 3.2 sec after the ADF pickup motor starts positive rotation.

Chapter 4 User Mode Items

4.1 User Mode Items

4.1.1 Overview

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

The following are the user mode setting items.

MEMO:

- Drawer 2 is an option cassette.
- Some setting items are displayed by pressing the left/right Any key. Perform operations by referring to the functions of the left/right Any key displayed at the bottom of the screen.
- Depending on the country of purchase, some settings may not be available.
- The menus described in this section are based on the model Color imageRUNNER C1022i.
- Depending on the model of your machine, some settings may not be available.

4.1.2 Volume Settings

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

*: default settings

*3: Only when the Super G3 FAX Board is attached.

T-4-1

Volume Settings		
Item		Settings
Monitor Volume Settings *3		Volume Key Setting Priority *, Screen Settings Priority
	Send Tone	ON*/OFF
	Volume	1*-3
Audible Tones		
	Incoming Ring *3	ON*/OFF
	Volume	1*-3
	Entry Tone	ON*/OFF
	Volume	1*-3
	Warning Tone	ON*/OFF
	Volume	1*-3
	TX Done Tone	ON*/OFF
	Volume	1*-3
	Receive Tone *3	ON*/OFF
	Volume	1*-3
	Print Done Tone	ON*/OFF
	Volume	1*-3
	Scan Done Tone	ON*/OFF
	Volume	1*-3

4.1.3 Printer Settings

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

*: default settings

*2: Only when the PCL Printer Kit is attached.

*3: Only when the Barcode Printing Kit is attached.

T-4-2

Printer Settings	
Item	Settings
Number of Copies	1 to 999 Copies 1*
2-Sided	1-Sided *, 2-Sided
Paper Feed	
Default Paper Size	LTR, LGL, STMT, EXEC, FLSC, OFI, B-OFI, M-OFI, G-LTR, G-LGL, COM10, Monarch, DL, ISO-c5, ISO-B5, A4, A5, B5 (*: A4(For all excluding USA, Canada), LTR(Only for USA, Canada))
Default Paper Type	Plain *, Plain H, Recycled Paper, Color, Heavy 1, Heavy 2, Transparencies, Labels, Rough, Envelope
Printing Quality	
Gradation level	High Gradation 1 *, High Gradation 2
Toner Density	
Cyan (C)	-8 (Lighter) to +8 (Darker) (0*)
Magenta (M)	-8 (Lighter) to +8 (Darker) (0*)
Yellow (Y)	-8 (Lighter) to +8 (Darker) (0*)
Black (Bk)	-8 (Lighter) to +8 (Darker) (0*)
Save Toner	OFF*/ON
Line Control	Resolution Priority *, Gradation Priority
Layout	
Margin Direction	Long Edge *, Short Edge
Unit of Measure	Milimeter, Inch (*: Milimeter(For all excluding USA, Canada), Inch(Only for USA, Canada))
Margin	mm: -50.0 to +50.0 mm Width 0.5 mm (0.0) in: -1.97 to +1.97 inch Width 0.01 inch (0.00)
Auto Error Skip	OFF*/ON
Collate	OFF*/ON
Timeout	OFF/Timeout (5 to 300 Seconds) 15*
Color Mode	Auto Switch *, Color, Black and White
Gradation Settings	
Gradation	OFF*/Smooth 1/Smooth 2
Graphics	OFF/ON*
Image	OFF/ON*
Compressed Image Output	Output *, Display Error Message
Initialize Printer Settings	Initialize settings? (No, Yes)

T-4-3

Printer Settings	
Item	Settings
PCL Settings*2	
Paper Save	OFF* / ON
Orientation	Portrait *, Landscape
Font Number	(0 to 91) 0*
Character Size	4.00 to 999.75 point Width 0.25 point (12*) point (4.00 to 999.75) 12.00* Width 0.25point
No. of Characters	0.44 to 99.99 cpi Width 0.01 cpi (10*)
Rows	5 to 128 Lines (*: 60(U.S.A, Canada), 64(Others))
Character Code	DESKTOP / ISO4 / ISO6 / ISO11 / ISO15 / ISO17 / ISO21 / ISO60 / ISO69 / ISOL1 / ISOL2 / ISOL5 / ISOL6 / ISOL9 / Legal / MATH8 / MCTEXT / MSPUBL / PC775 / PC8 * / PC850 / PC852 / PC858 / PC8DN / PC8TK / PC1004 / PIFONT / PSMATH / PSTEXT / ROMAN8 / Roman 9 / VNINTL / VNMATH / VNUS / WIN30 / WINBALTWINL1 / WINL2 / WINL5
User Paper Size Settings	OFF* / ON
Unit	Milimeter, Inch (*: Milimeter(For all excluding USA, Canada), Inch(Only for USA, Canada))
Width	76.2 to 215.9 mm Width 0.1 mm 3.00 to 8.50 inch Width 0.01 inch
Height	127.0 to 355.6 mm Width 0.1 mm 5.00 to 14.00 inch Width 0.01 inch
Append CR to LF	Yes / No*
A4 Print Area Enlargement	OFF* / ON
Halftones	OFF* / ON
Text	Resolution *, Gradation
Graphics	Resolution, Gradation *
Image	Resolution, Gradation *
RGB Source Profile	
Text	sRGB* / Gamma 1.5 / Gamma 1.8 / Gamma 2.4
Graphics	sRGB* / Gamma 1.5 / Gamma 1.8 / Gamma 2.4
Image	sRGB* / Gamma 1.5 / Gamma 1.8 / Gamma 2.4
Output Profile	
Text	Normal* / Photo
Graphics	Normal* / Photo
Image	Normal / Photo*
Matching Method	
Text	Perceptual, Saturation *, Colorimetric
Graphics	Perceptual *, Saturation, Colorimetric
Image	Perceptual *, Saturation, Colorimetric
Gray Compensation	
Text	OFF / ON*
Graphics	OFF / ON*
Image	OFF / ON*
CMS (Matching) Selection	Printer *, Host
CMS (Matching) Gamma	
Text	Gamma / CMS*
Graphics	Gamma / CMS*
Image	Gamma / CMS*
Gamma Correction	
Text	1.0 / 1.4* / 1.8 / 2.2
Graphics	1.0 / 1.4* / 1.8 / 2.2
Image	1.0 / 1.4* / 1.8 / 2.2
Advanced Smoothing	
Advanced Smoothing	OFF / Smooth 1* / Smooth 2
Graphics	OFF* / ON
Text	OFF / ON*
BarDIMM *3	Invalid *, Valid
FreeScale	OFF ~ " # \$ / \ ? { }

4.1.4 Timer Settings

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

***: For all excluding Japan, Asia

The following are the items for timer settings.

1. Month
2. Week (1st/2nd/3rd/4th/End)
3. Day of week
4. Time(00 - 23): No setting by minutes

Default: No setting

T-4-4

Timer Settings	
Item	Settings
Date/Time Settings	
Current Time Settings	YYYY MM / DD --:--
Time Zone Settings	1. GMT-12:00 2. GMT-11:00 3. GMT-10:00 4. GMT-9:00 5. GMT-8:00 6. GMT-7:00 7. GMT-6:00 8. GMT-5:00: Default for North America (EST) 9. GMT-4:00 10. GMT-3:30 11. GMT-3:00 12. GMT-2:00 13. GMT-1:00 14. GMT: Default for Europe/general 15. GMT+1:00 16. GMT+2:00 17. GMT+3:00 18. GMT+3:30 19. GMT+4:00 20. GMT+4:30 21. GMT+5:00 22. GMT+5:30 23. GMT+6:00 24. GMT+7:00 25. GMT+8:00 26. GMT+9:00: Default for Japan 27. GMT+9:30 28. GMT+10:00 29. GMT+11:00 30. GMT+12:00
Daylight Saving Time Set. ***	OFF*/ON
Start date	
Month	
Week	
Day of week	
Time	
End date	
Month	
Week	
Day of week	
Time	
Auto Sleep Time	ON/OFF
Shift time	3 to 240 Minutes 15*
Auto Clear Time	0 = Off, 1 to 9 Minutes (by minutes) 2*

4.1.5 Report Settings

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

*: default settings

*4: Only when the appropriate optional equipment is attached.

Settings

T-4-5

Report Settings > Settings		
Item		Settings
TX Report		OFF/ON/Only When Error Occurs *
	Display Send Original	OFF/ON*
	Color Send Original Display *4	OFF/ON*
Activity Report		
	Auto Print	OFF/ON*
	Send/ Receive Separate *4	OFF*/ON
RX Report *4		OFF*/ON/Only When Error Occurs

Print List

T-4-6

Report Settings > Print List		
Item		Settings
Address Book List *4		
	Address Book	Do you want to print the address book list? No/Yes
	One-touch	Do you want to print the address book list? No/Yes
User's Data List		Is it OK to print the user's data list? No/Yes

Chapter 5 Service Mode

5.1 COPIER

5.1.1 DISPLAY

5.1.1.1 DISPLAY List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<VERSION>

T-5-1

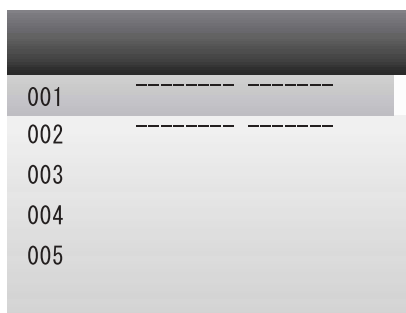
COPIER > DISPLAY > VERSION	
Sub item	Description
MAIN	Display of the version/checksum/date of Bootable (product program area)
BOOT	Display of the version/checksum/date of BootROM (boot program area)
OPROM	Not used
ECONT	Display of the ROM version of the recording engine

<ERR>

Error code display screen

Display error codes and detailed codes for system errors.

128 errors maximum



F-5-1

<CCD>

T-5-2

COPIER > DISPLAY > CCD	
Sub item	Description
TARGET-B	BLUE color shading target value
TARGET-G	GREEN color shading target value
TARGET-R	RED color shading target value
GAIN-OB	CCD odd-bit BLUE color gain level adjustment value
GAIN-OG	CCD odd-bit GREEN color gain level adjustment value
GAIN-OR	CCD odd-bit RED color gain level adjustment value
GAIN-EB	CCD odd-bit BLUE color offset level adjustment value
GAIN-EG	CCD odd-bit GREEN color offset level adjustment value
GAIN-ER	CCD odd-bit RED color offset level adjustment value

5.1.2 I/O

5.1.2.1 R-CON

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-5-3

Address	BIT	Description
P001	-	Not used
P002	0	Display of the sensor status (DES)
	1	Display of the sensor status (DS)
	2	Display of the sensor status (HPS)

5.1.3 ADJUST

5.1.3.1 ADJUST List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<ADJ-XY>

T-5-4

COPIER > ADJUST > ADJ-XY	
Sub item	Description
ADJ-X	Adjustment of the optical image leading edge position (image reading start position in the sub-scanning direction) [When used] Incorrect copyboard reading position in the sub scanning direction. [Adjustment method] - When the no-image width is larger than the standard value, decrease the setting value. - When the area outside of the document field is printed, increase the setting value. - When the setting value is increased by 1, the image reading start position moves toward the trailing edge by 0.1mm. Setting range: -100 to 100 [Factory setting value: Differs depending on the machine.] [Value after RAM clearing: 0]
ADJ-Y	Adjustment of the CCD reading start cell position (image reading start position in the main-scanning direction) [When used] Incorrect copyboard reading position in the main scanning direction. [Adjustment method] - When the no-image width is larger than the standard value, decrease the setting value. - When the area outside of the document field is printed, increase the setting value. - When the setting value is increased by 1, the image reading start position moves toward the front side by 0.1mm. Setting range: 1 to 435 [Factory setting value: Differs depending on the machine.] [Value after RAM clearing: 169]
ADJ-Y-DF	Adjustment of the DF stream reading main-scanning position [When used] Incorrect DF stream reading position in the main scanning direction [Adjustment method] - When the setting value is increased by 1, the image reading start position moves toward the front side by 0.1mm. Setting range: 1 to 435 [Factory setting value: Differs depending on the machine.] [Value after RAM clearing: 338]
STRD-POS	Adjustment of the DF stream reading CCD reading position [When used] Incorrect DF stream reading position in the sub scanning direction. [Adjustment method] - When the setting value is increased by 1, the image reading start position moves toward the leading edge by 0.1mm. Setting range: -100 to 100 [Factory setting value: Differs depending on the machine. (It differs depending on whether the machine is a reader or an ADF.)] [Value after RAM clearing: 0]
ADJ-X-MG	Fine adjustment of the copyboard reading sub-scanning magnification [When used] The image printed in the copy output sheet is larger or smaller than the document image. [Adjustment method] Compare the document and copy output sheet, and make an adjustment. - When the image printed in the output sheet is smaller than the document image, increase the value. - When the image printed in the output sheet is larger than the document image, decrease the value. Setting range: -512 to 512 [Factory setting value/Value after RAM clearing: 0] [Caution: This adjustment is made to adjust the image position, and it may affect the SEND image.]

<CCD>

T-5-5

COPIER > ADJUST > CCD	
Sub item	Description
W-PLT-X	Entry of white level data for standard white plate Enter a correction value (X) for standard white plate on the backside of the copyboard glass using the service mode after replacement of the copyboard glass or after execution of RAM clearing for the reader unit. Setting range: 4096 to 9999 [Factory setting value/Value after RAM clearing: 8232]
W-PLT-Y	Entry of white level data for standard white plate Enter a correction value (Y) for standard white plate on the backside of the copyboard glass using the service mode after replacement of the copyboard glass or after execution of RAM clearing for the reader unit. Setting range: 4096 to 9999 [Factory setting value/Value after RAM clearing: 8693]
W-PLT-Z	Entry of white level data for standard white plate Enter a correction value (Z) for standard white plate on the backside of the copyboard glass using the service mode after replacement of the copyboard glass or after execution of RAM clearing for the reader unit. Setting range: 4096 to 9999 [Factory setting value/Value after RAM clearing: 9370]
DF-TAR-R	Entry of the shading target value when DF is used (RED color) (Normal document reading position) Make the following adjustment using this item. [When used] An image failure occurred after execution of ADF white level adjustment (COPIER>FUNCTION>CCD>DF-WLV1/DF-WLV2) (caused by a dirt on the chart, etc.). Setting range: 0 to 99999 [Factory setting value: Differs depending on the machine] [Value after RAM clearing: 0]

COPIER > ADJUST > CCD	
Sub item	Description
DFTAR-G	Entry of the shading target value when DF is used (GREEN color) (Normal document reading position) Make the following adjustment using this item. [When used] An image failure occurred after execution of ADF white level adjustment (COPIER>FUNCTION>CCD>DF-WLVL1/DF-WLVL2) (caused by a dirt on the chart, etc.). Setting range: 0 to 99999 [Factory setting value: Differs depending on the machine] [Value after RAM clearing: 0]
DFTAR-B	Entry of the shading target value when DF is used (BLUE color) (Normal document reading position) Make the following adjustment using this item. [When used] An image failure occurred after execution of ADF white level adjustment (COPIER>FUNCTION>CCD>DF-WLVL1/DF-WLVL2) (caused by a dirt on the chart, etc.). Setting range: 0 to 99999 [Factory setting value: Differs depending on the machine] [Value after RAM clearing: 0]

<PASCAL>

T-5-6

COPIER > ADJUST > PASCAL	
Sub item	Description
OFST-P-Y	Adjustment of the test print reading density Perform an offset adjustment for the test print reading signal when PASCAL control is performed at the time of automatic gradation correction (full correction). Setting range: -32 to 32
OFST-P-M	Adjustment of the test print reading density Perform an offset adjustment for the test print reading signal when PASCAL control is performed at the time of automatic gradation correction (full correction). Setting range: -32 to 32
OFST-P-C	Adjustment of the test print reading density Perform an offset adjustment for the test print reading signal when PASCAL control is performed at the time of automatic gradation correction (full correction). Setting range: -32 to 32
OFST-P-K	Adjustment of the test print reading density Perform an offset adjustment for the test print reading signal when PASCAL control is performed at the time of automatic gradation correction (full correction). Setting range: -32 to 32

<MISC>

T-5-7

COPIER > ADJUST > MISC	
Sub item	Description
SEG-ADJ	Adjustment of the separation level of text and photo in the text/photo/map mode Setting range: -4 to 4 [Factory setting value/Value after RAM clearing: 0]
ACS-EN	Adjustment of copyboard ACS-EN ACS- judgment area [When used] The user does not need color adjustment of the upper edge or corners of the BOOK document. (At copyboard reading) Setting range: -2 to 2 Increase the setting value to enlarge the judgment area. [Factory setting value/Value after RAM clearing: 1]
ACS-EN2	Adjustment of DF ACS-EN ACS- judgment area [When used] The user does not need color adjustment of the upper edge or corners of the BOOK document. (At DF stream reading) Setting range: -2 to 2 Increase the setting value to enlarge the judgment area. [Factory setting value/Value after RAM clearing: 1]

<VIFADJ>

T-5-8

COPIER > ADJUST > VIFADJ	
Sub item	Description
CRG-BS-Y	Charging bias setting value (Y) [When used] Low/high image density or fogging occurs but the problem cannot be solved by changing the density setting and performing special printing process. [Adjustment method] - When fogging occurs, it may be eliminated by increasing the setting value. - Increase the setting value to slightly lower the image density. - Decrease the setting value to slightly increase the image density. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]

COPIER > ADJUST > VIFADJ	
Sub item	Description
CRG-BS-M	Charging bias setting value (M) [When used] Low/high image density or fogging occurs but the problem cannot be solved by changing the density setting and performing special printing process. [Adjustment method] - When fogging occurs, it may be eliminated by increasing the setting value. - Increase the setting value to slightly lower the image density. - Decrease the setting value to slightly increase the image density. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
CRG-BS-C	Charging bias setting value (C) [When used] Low/high image density or fogging occurs but the problem cannot be solved by changing the density setting and performing special printing process. [Adjustment method] - When fogging occurs, it may be eliminated by increasing the setting value. - Increase the setting value to slightly lower the image density. - Decrease the setting value to slightly increase the image density. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
CRG-BS-K	Charging bias setting value (Bk) [When used] Low/high image density or fogging occurs but the problem cannot be solved by changing the density setting and performing special printing process. [Adjustment method] - When fogging occurs, it may be eliminated by increasing the setting value. - Increase the setting value to slightly lower the image density. - Decrease the setting value to slightly increase the image density. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
DEV-BS-Y	Developing bias setting value (Y) [When used] Low/high image density or fogging occurs but the problem cannot be eliminated by changing the density setting and performing special printing process. [Adjustment method] - Increase the setting value to increase the image density. - Decrease the setting value to decrease the image density. - When fogging occurs, it may be eliminated by decreasing the setting value. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
DEV-BS-M	Developing bias setting value (M) [When used] Low/high image density or fogging occurs but the problem cannot be eliminated by changing the density setting and performing special printing process. [Adjustment method] - Increase the setting value to increase the image density. - Decrease the setting value to decrease the image density. - When fogging occurs, it may be eliminated by decreasing the setting value. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
DEV-BS-C	Developing bias setting value (C) [When used] Low/high image density or fogging occurs but the problem cannot be eliminated by changing the density setting and performing special printing process. [Adjustment method] - Increase the setting value to increase the image density. - Decrease the setting value to decrease the image density. - When fogging occurs, it may be eliminated by decreasing the setting value. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
DEV-BS-K	Developing bias setting value (Bk) [When used] Low/high image density or fogging occurs but the problem cannot be eliminated by changing the density setting and performing special printing process. [Adjustment method] - Increase the setting value to increase the image density. - Decrease the setting value to decrease the image density. - When fogging occurs, it may be eliminated by decreasing the setting value. Setting range: -10 to 10 (Unit: 20V) [Factory setting value/Value after RAM clearing: 0]
FRT-TS-Y	Transfer bias front side setting value (Y) [When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process. [Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode) Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]

COPIER > ADJUST > VIFADJ	
Sub item	Description
FRT-TS-M	<p>Transfer bias front side setting value (M)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
FRT-TS-C	<p>Transfer bias front side setting value (C)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
FRT-TS-K	<p>Transfer bias front side setting value (Bk)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
BCK-TR-Y	<p>Transfer bias backside setting value (Y)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
BCK-TR-M	<p>Transfer bias backside setting value (M)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
BCK-TR-C	<p>Transfer bias backside setting value (C)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
BCK-TR-K	<p>Transfer bias backside setting value (Bk)</p> <p>[When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for toner scatter/dotted image) - Decrease the setting value. (Effective for white dots/white flower patches/image with high granularity in halftone mode)</p> <p>Setting range: -30 to 40 (Unit: 50V) - It is preferable to enter values in the condition of "M <= C <= Y <= K". [Factory setting value/Value after RAM clearing: 0]</p>
PGR-YMCK	<p>Setting value of transfer bias between sheets (Y, M, C, Bk)</p> <p>[When used] The density of the entire area of 70 to 80mm from the leading edge of the sheet is low/high, or there are an infinite number of white or black spots in an image when the entire print is halftone, etc.</p> <p>[Adjustment method] - The problem may be eliminated by changing the setting value. - Increase the setting value. (Effective for thin density in the area 70 to 80mm from the leading edge) - Decrease the setting value. (Effective for high density in the area 70 to 80mm from the leading edge)</p> <p>Setting range: -20 to 50 (Unit: 50V) [Factory setting value/Value after RAM clearing: 0]</p>

COPIER > ADJUST > VIFADJ	
Sub item	Description
FRT-ATH	Attraction bias front side setting value [When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process. [Adjustment method] - The problem may be eliminated by changing the setting value. Setting range: -20 to 20 (Unit: 100V) [Factory setting value/Value after RAM clearing: 0]
BCK-ATH	Attraction bias backside setting value [When used] An image failure occurs depending on the type or condition of the paper AND the problem cannot be eliminated by performing special printing process. [Adjustment method] - The problem may be eliminated by changing the setting value. Setting range: -20 to 20 (Unit: 100V) [Factory setting value/Value after RAM clearing: 0]
FRFS-TMP	Fixing temperature front side setting value [When used] The problem cannot be eliminated by performing special printing process and the image is not firmly fixed to the sheet, or a residual image remains in the image. [Caution] The fixing heater temperature is changed via this mode, and therefore, attentions should be paid when using this mode. [Adjustment method] - When an image is not firmly fixed to the sheet, the problem may be eliminated by increasing the setting value. - When a residual image remains in an image, the problem may be eliminated by decreasing the setting value. Setting range: -4 to 4 (Unit: Approx. 5 degree C) [Factory setting value/Value after RAM clearing: 0]
BKFS-TMP	Fixing temperature backside setting value [When used] The problem cannot be eliminated by performing special printing process and the image is not firmly fixed to the sheet, or a residual image remains in the image. [Caution] The fixing heater temperature is changed via this mode, and therefore, attentions should be paid when using this mode. [Adjustment method] - When an image is not firmly fixed to the sheet, the problem may be eliminated by increasing the setting value. - When a residual image remains in an image, the problem may be eliminated by decreasing the setting value. Setting range: -4 to 4 (Unit: Approx. 5 degree C) [Factory setting value/Value after RAM clearing: 0]

5.1.4 FUNCTION

5.1.4.1 FUNCTION List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<INSTALL>

T-5-9

COPIER > FUNCTION > INSTALL	
Sub item	Description
CARD	Not used
E-RDS	Enabling/disabling of the e-RDS function Setting value: 0: Disabled, 1: Enabled [Factory setting value/Value after RAM clearing: 0]
RGW-PORT	Setting of the port number of the sales company's server used for E-RDS Refer to the port number in the user mode. Setting range: 1 to 65535 [Factory setting value/Value after RAM clearing: 443]
COM-TEST	Confirmation of the connection with the sales company's server used for E-RDS Try to connect the sales company's server. Make a judgment of whether connection has been made or not, and display the result by OK or NG.
COM-LOG	Display of a communication error log Display the detailed result of communication test with the sales company's server used for E-RDS. When an error occurs in communication with the sales company's server, error information is displayed. <Log contents> Number: No. 1 is assigned to the latest one. Error code: 8-digit hexadecimal number Date: Date when the error occurred Time: Time when the error occurred Detailed error information: 128 characters maximum 5 logs maximum
RGW-ADR	Setting of the URL of the sales company's server used for E-RDS Set the URL of the sales company's server. Setting value: URL (incl. NULL, SJIS is not supported) (128 characters maximum)
CNT-DATE	Setting of the date and time to start sending counter information to the server Set the date and time to start sending counter information to the server using the E-RDS third-party extended function. Refer to the date and time setting in the user mode. (12 digits: YYYYMMDDHHMM) YYYY: Year, MM: Month, DD: Day, HH: Hour, MM: Minute) Setting range: 2000/1/1 00:00 to 2037/12/31 23.59 [Factory setting value/Value after RAM clearing: 000000000000]
CNT-INTV	Setting of the interval for sending counter information to the server Set the interval of sending counter information to the server using the E-RDS third-party extended function. Setting range: 1 to 168 (Unit: 1 week) [Factory setting value/Value after RAM clearing: 24]

COPIER > FUNCTION > INSTALL	
Sub item	Description
STRD-POS	Automatic detection of the DF stream reading CCD reading position Execute this item after performing any of the replacement of the ADF unit, replacement of the reader unit, or RAM clearing for the scanner. [Operation] Å@The reading position is adjusted while the scanner continues to move by 0.1 mm. [Time] Å@When the lamp lights up: Adjustment time: 10 sec When the lamp does not light up: Lamp adjustment time of 10 to 30 sec + Adjustment time of 10 sec [Displays] 0: Operating / 1: OK / 2: NG

<ATTRACT>

Not used

<DPC>

Not used

<CST>

Not used

<CLEANING>

Not used

<FIXING>

Not used

<PANEL>

T-5-10

COPIER > FUNCTION > PANEL	
Sub item	Description
LCD-CHK	Not used
LED-CHK	Not used
LED-OFF	Not used
KEY-CHK	Not used

<PART-CHK>

Not used

<CLEAR>

T-5-11

COPIER > FUNCTION > CLEAR		
Sub item		Description
R-CON		Not used
TEL-USER		Clearing of user data and data registered in the address book SSSW is not cleared.
SRVC-DAT		Clearing of SERVICE DATA User data is not cleared.
COUNTER		Clearing of the maintenance/parts counter and mode counter to 0 Clear the counter (numerator) on the system dump list to 0.
TYPE		Initialization of USER DATA and SERVICE DATA for the specified destination setting Japan: JAPAN USA: U.S.A. Europe: EUROPE 1(area) / U.K. / SWEDEN / SWISS / AUSTRIA / DENMARK / NORWAY / HOLLAND / BERUGIUM / FINLAND / ITALY / SPAIN / PORTUGAL / IRELAND / HUNGARY / SAF / GERMANY / FRANCE / CZECH / SLOVENIA / PORTLAND / GREECE/ LUXEMBOURG / RUSSIA / EUROPE 2(area) Australia: AUSTRALIA / N.Z. China: CHINA Korea: KOREA Taiwan: TAIWAN Asia: SINGAPORE / HONG KONG / MALAYSIA / ASIA(area) Note) STANDARD / CANADA are not in use.
HIST	ACT-HIST	Clearing of the communication management history
	ACC-HIST	Clearing of the print history
	JAM-HIST	Clearing of the jam history
	ERR-HIST	Clearing of the error (E code) history
	ALARM	Not used
ENV-HIST		Not used
CARD		Clearing of the connection information of a new card reader equipment Clear data related to card IDs (department). Operation method 1) Set the department management in user registration to OFF. 2) Execute this item. 3) Execute COPIER>FUNCTION>CLEAR>ERR>E719. 4) Turn off the main power switch. 5) Remove the control card equipment. 6) Turn on the main power switch.
ERR	E355-CLR	Clearing of E355
	E719-CLR	Clearing of E719 Clear the connection information of the control card equipment and coin robo.
PWD-CLR		Clearing of the password of a system administrator
FILE-SYS		Initialization of the file system for the main and optional ROMs (File decompression)

COPIER > FUNCTION > CLEAR		
Sub item		Description
FORMAT	FMT-USB	Not used
	FMT-LDRV	Not used
	FMT-SD	Not used
	512	Not used
	1024	Not used
	2048	Not used
CA-KEY		Initialization of the CA certificate installed (Only displayed after the activation of e-RDS function)
ERDS-DAT		Initialization of e-RDS parameters (Only displayed after the activation of e-RDS function) - ERDS SWITCH - RGW-ADDRESS - RGW-PORT - CNT-DATE - CNT-INTV - COM-LOG
DEPT-USR		Setting the ID management by department and user management to OFF
SYS-INFO		Clearing of the system administration password
ALL		Clearing of the following items - USER DATA - SERVICE DATA - JOB ID - Histories - Clearing date MEMO: USER DATA/SERVICE DATA are initialized for the default destination setting.
EAM-DAT		Not used
ELA-DAT		Not used

<MISC-R>

T-5-12

COPIER > FUNCTION > MISC-R	
Sub item	Description
SCANLAMP	Turning on the scanning lamp

<MISC-P>

T-5-13

COPIER > FUNCTION > MISC-P		
Sub item		Description
MISC-SW		Not used
MISC-NUM		Not used
OUTPUT	SRVC-DAT	Output of the system data list/system dump list
	SYS-DAT	Output of the system data list Mainly output the report of each service software switch and parameter used for FAX function.
	SYS-DMP	Output of the system dump list Output the service data such as the number of communication, number of received sheets, number of sent sheets, number of recording sheets, and number of errors, etc.
	CNTR	Output of the counter report Display the counter indicating how often the function of reading, recording, communication, and copy operation is performed.
	ERR-LOG	Output of error logs
	SPEC	Output of the spec report Print the current equipment condition.
	ERDS-COM	Output of e-RDS communication error logs
	SRVC-LBL	Not used

<SENS-ADJ>

Not used

<SYSTEM>

T-5-14

COPIER > FUNCTION > SYSTEM	
Sub item	Description
DOWNLOAD	Switching to the download mode

<HV-TR>

Not used

<CCD>

T-5-15

COPIER > FUNCTION > CCD	
Sub item	Description
DF-WLVL1	Not used
DF-WLVL2	Not used

<PARAM>

T-5-16

COPIER > FUNCTION > PARAM	
Sub item	Description
SYS-SW	Registration of system parameters (See the table shown below.)

T-5-17

PARAM > SYS-SW			
SW	Bit	Function	Remarks
05	7	Switching of whether or not to prohibit exporting of PWD in the address book (0: Do not prohibit exporting, 1: Prohibit exporting)	Initial value: 1

T-5-18

COPIER > FUNCTION > PARAM		
Sub item	Description	
SYS-NUM	001 to 100	
FAX-SW	Not used	
FAX-NUM	Not used	
NET-SW	SW01 to SW50	
NETNUM	001 to 050	
NET-CERT	VERSION	CA certificate version
	SRLNUM	Serial number
	SIGALG	Signature algorithm
	ISSUER	Issuer
	VLD_FROM	Commencement date of the expiration period
	VLD_TO	Finishing date of the expiration period
	SUBJECT	Subject of issuance
	PUB_KEY	Public key algorithm and size
	THMB_PRT	Digest (Thumb imprint)
CDC-SW	Not used	
CDC-NUM	Not used	
EXC-NAVI	Switch for whether or not to start up the installation navigation When setting this switch to 1 after the installation navigation is completed, the installation navigation does not start up at the time of next activation. Setting value: 0: Start up the navigation. 1: Do not start up the navigation. [Factory setting value/Value after RAM clearing: 0]	
DSP-PPRSE	Setting of whether or not to display the paper setting screen when ACS setting is set to ON at the time of copy operation Setting value: 0: Do not display the screen. 1: Display the screen. [Factory setting value/Value after RAM clearing: 0]	
SET-PPRSZ	Setting of the ACS document size when DSP-PPRSEL is set to ON When the document size is unknown, a screen prompting an operator to enter the document size is displayed. When the sizes other than UNKNOWN are specified, ACS judgment processing is performed based on the specified document size. Setting range: 0 to 20 Setting value: 0: UNKNOWN, 2: A4, 3: A5, 7: B5, 12: LGL, 13: LTR, 60: STMT [Factory setting value/Value after RAM clearing: 0]	
DSP-TNROW	Setting of whether or not to display "Toner Low" Setting value: 0: Do not display the screen. 1: Display the screen. [Factory setting value/Value after RAM clearing: 1 (0 for iR C1022/iR C1022i (for US) only)]	
SCAN-SW	Not used	
SCAN-NUM	Not used	
APS-LTLG	Switching of whether or not to display "Automatic (LTR/LGL)" (For future expansion) Setting value: 0: Do not display the item, 1: Display the item [Factory setting value/Value after RAM clearing: 0: MF9330C/ MF9340C/ MF9370C/ iR C1021/ iR C1021i/ iR C1022/ iR C1022i/ iR C2110F/ iR C2110N 1: Other models]	
DSP-SCWD	Switching of whether or not to enable ScanToMedia (For future expansion) Setting value: 0: Enable the function, 1: Disable the function [Factory setting value/Value after RAM clearing: 0]	
DSP-MDPR	Switching of whether or not to enable MediaPrint (For future expansion) Setting value: 0: Enable the function, 1: Disable the function [Factory setting value/Value after RAM clearing: 0]	
DSP-ACS	Switching of whether or not to display [ACS Function Adjustment] when selecting [Additional Func.] > [Adjustment/Cleaning] > [ACS Function Adjustment]. Setting value: 0: Do not display the item, 1: Display the item [Factory setting value/Value after RAM clearing: 0: iR C1022i / iR C1021i / iR C1022 / iR C1021 for North America, Europe, and Australia 1: Other models]	

<PRINTER>

T-5-19

COPIER > FUNCTION > PRINTER	
Sub item	Description
SYS-SW	Not used
SYS-NUM	Not used

<VIFENC>

T-5-20

COPIER > FUNCTION > VIFENC	
Sub item	Description
RSTR-DCN	Restoration of the backup information of DC controller NVRAM retained in the controller's NVRAM to the DC controller NVRAM Perform the following procedure after replacement of the DC controller PCB. 1) Using this item, restore the backup data of the DC controller retained in the NVRAM of the main controller PCB to the NVRAM of the DC controller PCB. 2) Print the user data list by selecting "Initial setting/registration > Report output > List print > User data list". 3) Execute full correction by selecting "Initial setting/registration > Adjustment > Cleaning > Automatic gradation correction > Full correction".
CLR-DCN	Clear of the backup information of DC controller NVRAM retained in the controller's NVRAM to the DC controller NVRAM
SEL-TALC	Setting of TALC paper ETB cleaning is performed 10 times at initial rotation.
INV-ATVC	Setting to enable ATVC Ignore ATVC and use a default value for the output value of each bias.
IMP-BNDG	Setting for banding improvement Perform idling with engagement of the developing assembly and disengagement of ETB.
AANY-0 / AANY-1	Setting of any-any mode 0 / any-any mode 1 Combination of any-any mode 0 / any-any mode 1 AANY-0=0/AANY-1=0: Perform constant-speed cleaning after a job only when the paper size does not match. AANY-0=1/AANY-1=0: Perform high-speed cleaning after all jobs. AANY-0=0/AANY-1=1: Perform constant-speed cleaning after all jobs. AANY-0=1/AANY-1=1: Perform high-speed cleaning after a job only when the paper size does not match.

<SPLMAN>

T-5-21

COPIER > FUNCTION > SPLMAN	
Sub item	Description
SPL27767	Setting of high-resistance paper Decrease the final output value of transfer bias by 250V. (Only when high-humidity OHT/high-humidity gloss film is not specified) Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL27267	Setting of 4mil OHT Decrease the final output value of transfer bias by 500V. (Only when high-humidity OHT/high-humidity gloss film/high-resistance paper is not specified) Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL23866	Setting of calcium carbonate paper Apply the maximum attraction bias wherever possible regardless of the environment. Since there is no result of detection of attraction paper resistance, set a transfer bias from the environment. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL25407	Setting of thin paper/rough paper Change the process speed to 4/5 speed. Use the temperature control table for thin paper/rough paper. (Thin paper only) Do not change the process speed, but change the temperature control table. (Plain paper, Thick paper 2 only) Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL47267	Setting of high-humidity OHT Decrease the final output value of transfer bias by 100V. (OHT only) Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL47667	Setting of prevention of re-transfer Decrease the transfer bias for the 3rd/4th station depending on the environment. (Only when high-humidity OHT/high-humidity gloss film/high-resistance paper/4mil OHT is not specified) Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL34691	Setting for improvement of color misregistration Rotate the fixing motor in +0.5% speed up to the 10th page. Secure the wait time of 10 seconds when the 1st page is picked up at the time of initial rotation, mode switching, or toner ejection. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL14682	Setting for prevention of fogging 2 Turn off the pre-exposure operation. Do not add a transfer bias as measures to prevent a bird's foot print on the trailing edge. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL25200	Setting for improvement of OHT transparency Set the controlled temperature at 180 degC, and perform idling of the fixing machine for 45 seconds before initial rotation. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]

COPIER > FUNCTION > SPLMAN	
Sub item	Description
SPL53649	Setting of engagement for monochrome mode Perform full engagement of the ETB. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL35607	Setting of measures for hot offset Decrease the controlled temperature by 10 degC without exception. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL14660	Setting of the monochrome printer mode Perform the monochrome print in ETB Bk engagement mode. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL65676	Switching of the margin at the lead edge (in the direction of increasing the margin) Increase the margin at the lead edge of the paper. The standard margin is set if the setting conflicts with that of the decreased margin at the lead edge. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL65677	Switching of the margin at the lead edge (in the direction of decreasing the margin) Decrease the margin at the lead edge of the paper. The standard margin is set if the setting conflicts with that of the increased margin at the lead edge. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL68676	Switching of the margin at the right/left side (in the direction of increasing the margin) Increase the margin at the right and left side of the paper. The standard margin is set if the setting conflicts with that of the decreased margin at the right/left side. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL68677	Switching of the margin at the right/left side (in the direction of decreasing the margin) Decrease the margin at the right and left side of the paper. The standard margin is set if the setting conflicts with that of the increased margin at the right/left side. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]
SPL25607	Switching of the print mode setting Switch the print mode for "plain paper" from "Normal" to "Light" as measures for hot offset at overseas countries. Setting value: 0: OFF, 1: ON [Factory setting value/Value after RAM clearing: 0]

5.1.5 OPTION

5.1.5.1 OPTION List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<BODY>

T-5-22

COPIER > OPTION > BODY	
Sub item	Description
TMC-SLCT	Switching of the coefficient used for error diffusion correction Setting value: 0: Small granularity for CMYK 1: Small granularity for CMY, Large granularity + large stability for K 2: Large granularity + large stability for CMYK [Factory setting value/Value after RAM clearing: 0]
DFDST-L1	Adjustment of the level of dust detection when DF is used (Correction of an interval between sheets) When the value is increased, the dust detection level is increased. (This makes it easier to detect the dust causing low-density lines.) Setting range: 1 to 9999
DFDST-L2	Adjustment of the level of dust detection when DF is used (Detection after a job) When the value is increased, the dust detection level is increased. (This makes it easier to detect the dust causing low-density lines.) Setting range: 1 to 9999
TMIC-BK	Switching of the method of correcting the end of TMIC_BK_PASCAL_LUT (high-density area) Setting value: 0: Correction of the end of BK_LUT for PDL is set to OFF. Correction of the end of Bk_LUT for copy operation is set to OFF. 1: Correction of the end of BK_LUT for PDL is set to ON. Correction of the end of Bk_LUT for copy operation is set to ON. [Factory setting value/Value after RAM clearing: 1]
AST-SEL	AST-SEL for the change of the advanced smoothing range (AST level SElect) Setting range: 0 to 3 [Factory setting value/Value after RAM clearing: 2]
TMIC-CMY	Switching of the method of correcting the end of TMIC_PASCAL_LUT (high-density area) 0: Correction of the end of LUT for PDL is set to OFF. Correction of the end of LUT for copy operation is set to OFF. 1: Correction of the end of LUT for PDL is set to ON. Correction of the end of LUT for copy operation is set to ON. [Factory setting value/Value after RAM clearing: 1]
IFXEML-Z	Control of the additional function of the attribute flag when printing a message received by email Setting value: 0: For PDL_Text mode (CardDirect_Gray Correction ODM + Background On) 1: For PDL_Photo mode (CardDirect_Normal ODM + Background Off) 2: For Scan_Photo mode (CardDirect_Normal ODM + Background On) [Factory setting value/Value after RAM clearing: 0] * The Text mode is set as default because it is considered that many of the email messages contain documents mixed with text. ODM for CardDirect is used regardless of PDL or Scan because there is a restriction in terms of input/output color space.

<USER>

COPIER > OPTION > USER	
Sub item	Description
COUNTER1	Selection of the counter type for Counter 1 [Factory setting value/Value after RAM clearing: 101 (The settings cannot be changed; display only. (Reference: External and Controls > Counters)]
COUNTER2	Selection of the counter type for Counter 2 Setting range: 0 to 999 [Factory setting value/Value after RAM clearing: (Reference: External and Controls > Counters)]
COUNTER3	Selection of the counter type for Counter 3 Setting range: 0 to 999 [Factory setting value/Value after RAM clearing: (Reference: External and Controls > Counters)]
COUNTER4	Selection of the counter type for Counter 4 Setting range: 0 to 999 [Factory setting value/Value after RAM clearing: (Reference: External and Controls > Counters)]
COUNTER5	Selection of the counter type for Counter 5 Setting range: 0 to 999 [Factory setting value/Value after RAM clearing: (Reference: External and Controls > Counters)]
COUNTER6	Selection of the counter type for Counter 6 Setting range: 0 to 999 [Factory setting value/Value after RAM clearing: (Reference: External and Controls > Counters)]
TNRB-SW	Switching of whether or not to display the toner bottle counter Setting value: 0: Do not display the toner bottle counter. 1: Display the toner bottle counter. [Factory setting value/Value after RAM clearing: 0]
CNT-SW	Switching of the type of counter display Setting range: 0 to 4 [Factory setting value/Value after RAM clearing: 0]
SCALL-SW	Turning ON/OFF call button function Setting value: 0: Call button function OFF 1: Call button function ON [Factory setting value/Value after RAM clearing: 0]
SCALLCMP	Actions when repair of call button function is completed Used when actions for a repair request are completed.

Software counter specifications

100 to 199: Total
 200 to 299: Copy (When more numbers are needed, add the number from 001.)
 300 to 399: Print
 400 to 499: Copy and print
 500 to 599: Scan
 600 to 699: Box, Media/Pic/Mobile phone print
 700 to 799: Reception print
 800 to 899: Report print
 900 to 999: Sending/Box/Remote/Media

<Explanation of the symbols in the table>

- yes: Valid counter for this machine

- Large size: Paper larger than B4-size
- Small size: B4-size or smaller paper
- Numbers 1, 2 indicated under "Counter Details": Number of counts for large size paper
- Total A: Total number of counts for operation other than "local copy + remote copy"
- Total B: Total number of counts for operation other than "local copy + remote copy + Box print"
- Copy: Local copy + remote copy + Box print
- Copy A: Local copy + remote copy + Box print
- Print: PDL print + report print + Box print
- Print A: PDL print + report print
- Scan: B&W scan + color scan



Numbers from 191 to 194 are not available for the settings of Counter 2 to 6.

Compatibility	No.	Counter description
yes	101	Total 1
yes	102	Total 2
	103	Total (large)
yes	104	Total (small)
yes	105	Total (full-color 1)
yes	106	Total (full-color 2)
yes	108	Total (black and white 1)
yes	109	Total (black and white 2)
	110	Total (monocolor/large)
	111	Total (monocolor/small)
	112	Total (black and white/large)
yes	113	Total (black and white/small)
yes	114	Total 1 (two-sided)
yes	115	Total 2 (two-sided)

Compatibility	No.	Counter description
	116	Large (two-sided)
yes	117	Small (two-sided)
	118	Total (monocolor 1)
	119	Total (monocolor 2)
	120	Total (full-color/large)
yes	121	Total (full-color/small)
	122	Total (full-color + monocolor/large)
yes	123	Total (full-color + monocolor/small)
yes	124	Total (full-color + monocolor 2)
yes	125	Total (full-color + monocolor 1)
yes	126	Total A1
yes	127	Total A2
	128	Total A (large)
yes	129	Total A (small)
yes	130	Total A (full color 1)
yes	131	Total A (full color 2)
yes	132	Total A (black and white 1)
yes	133	Total A (black and white 2)
	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 A 1(double sided)
yes	139	Total A 2(double sided)
	140	large A (double sided)
yes	141	small A (double sided)
	142	Total A (mono color 1)
	143	Total A (mono color 2)
	144	Total A (full color /large)
yes	145	Total A (full color /small)
	146	Total A (full color +mono color /large)
yes	147	Total A (full color +mono color /small)
yes	148	Total A (full color +mono color 2)
yes	149	Total A (full color +mono color 1)
yes	150	Total B1
yes	151	Total B2
	152	Total B (large)
yes	153	Total B (small)
yes	154	Total B (full color 1)
yes	155	Total B (full color 2)
yes	156	Total B (black and white 1)
yes	157	Total B (black and white 2)
	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)
yes	163	Total B2 (double sided)
	164	large B (double sided)
yes	165	small B (double sided)
	166	Total B (mono color 1)
	167	Total B (mono color 2)
	168	Total B (full color /large)
yes	169	Total B (full color /small)
	170	Total B (full color +mono color /large)
yes	171	Total B (full color +mono color /small)
yes	172	Total B (full color +mono color 2)
yes	173	Total B (full color +mono color 1)
yes	191	Toner replacement / yellow
yes	192	Toner replacement / magenta
yes	193	Toner replacement / cyan
yes	194	Toner replacement / black
	195	Toner replacement / expansion 1
	196	Toner replacement / expansion 2
yes	201	Copies (total 1)
yes	202	Copies (total 2)

Compatibility	No.	Counter description
	203	Copies (large)
yes	204	Copies (small)
yes	205	Copies A (total 1)
yes	206	Copies A (total 2)
	207	Copies A (large)
yes	208	Copies A (small)
yes	209	Local copies (total 1)
yes	210	Local copies (total 2)
	211	Local copies (large)
yes	212	Local copies (small)
	213	Remote copies (total 1)
	214	Remote copies (total 2)
	215	Remote copies (large)
	216	Remote copies (small)
yes	217	Copies (full-color 1)
yes	218	Copies (full-color 2)
	219	Copies (monocolor 1)
	220	Copies (monocolor 2)
yes	221	Copies (black and white 1)
yes	222	Copies (black and white 2)
	223	Copies (full-color/large)
yes	224	Copies (full-color/small)
	225	Copies (monocolor/large)
	226	Copies (monocolor/small)
	227	Copies (black and white/large)
yes	228	Copies (black and white/small)
	229	Copies (full-color + monocolor/large)
yes	230	Copies (full-color + monocolor/small)
yes	231	Copies (full-color + monocolor/2)
yes	232	Copies (full-color + monocolor/1)
	233	Copies (full-color/large/two-sided)
yes	234	Copies (full-color/small/two-sided)
	235	Copies (monocolor/large/two-sided)
	236	Copies (monocolor/small/two-sided)
	237	Copies (black and white/large/two-sided)
yes	238	Copies (black and white/small/two-sided)
yes	245	Copies A (full-color 1)
yes	246	Copies A (full-color 2)
	247	Copies A (monocolor 1)
	248	Copies A (monocolor 2)
yes	249	Copies A (black and white 1)
yes	250	Copies A (black and white 2)
	251	Copies A (full-color/large)
yes	252	Copies A (full-color/small)
	253	Copies A (monocolor/large)
	254	Copies A (monocolor/small)
	255	Copies A (black and white/large)
yes	256	Copies A (black and white/small)
	257	Copies A (full-color + mono-color/large)
yes	258	Copies A (full-color + mono-color/small)
yes	259	Copies A (full-color + mono-color 2)
yes	260	Copies A (full-color + mono-color 1)
	261	Copies A (full-color/large/two-sided)
yes	262	Copies A (full-color/small/two-sided)
	263	Copies A (monocolor/large/two-sided)
	264	Copies A (monocolor/small/two-sided)
	265	Copies A (black and white/large/two-sided)
yes	266	Copies A (black and white/small/two-sided)
	273	Local copies (full-color 1)
	274	Local copies (full-color 2)
	275	Local copies (monocolor 1)
	276	Local copies (monocolor 2)
yes	277	Local copies (black and white 1)
yes	278	Local copies (black and white 2)
	279	Local copies (full-color/large)
yes	280	Local copies (full-color/small)

Compatibility	No.	Counter description
	281	Local copies (monocolor/large)
	282	Local copies (monocolor/small)
	283	Local copies (black and white/large)
yes	284	Local copies (black and white/small)
	285	Local copies (full-color + mono-color/large)
yes	286	Local copies (full-color + mono-color/large)
yes	287	Local copies (full-color + mono-color 2)
yes	288	Local copies (full-color + mono-color 1)
	289	Local copies (full-color/large/two-sided)
yes	290	Local copies (full-color/small/two-sided)
	291	Local copies (monocolor/large/two-sided)
	292	Local copies (monocolor/small/two-sided)
	293	Local copies (black and white/large/two-sided)
yes	294	Local copies (black and white/small/two-sided)
	002	Remote copies (full-color 1)
	003	Remote copies (full-color 2)
	004	Remote copies (monocolor 1)
	005	Remote copies (monocolor 2)
	006	Remote copies (black and white 1)
	007	Remote copies (black and white 2)
	008	Remote copies (full-color/large)
	009	Remote copies (full-color/small)
	010	Remote copies (monocolor/large)
	011	Remote copies (monocolor/small)
	012	Remote copies (black and white/large)
	013	Remote copies (black and white/small)
	014	Remote copies (full-color + monocolor/large)
	015	Remote copies (full-color + monocolor/small)
	016	Remote copies (full-color + monocolor 2)
	017	Remote copies (full-color + monocolor 1)
	018	Remote copies (full-color/large/two-sided)
	019	Remote copies (full-color/small/two-sided)
	020	Remote copies (monocolor/large/two-sided)
	021	Remote copies (monocolor/small/two-sided)
	022	Remote copies (black and white/large/two-sided)
	023	Remote copies (black and white/small/two-sided)
yes	301	Prints (total 1)
yes	302	Prints (total 2)
	303	Prints (large)
yes	304	Prints (small)
yes	305	Prints A (total 1)
yes	306	Prints A (total 2)
	307	Prints A (large)
yes	308	Prints A (small)
yes	309	Prints (full-color 1)
yes	310	Prints (full-color 2)
	311	Prints (monocolor 1)
	312	Prints (monocolor 2)
yes	313	Prints (black and white 1)
yes	314	Prints (black and white 2)
	315	Prints (full-color/large)
yes	316	Prints (full-color/small)
	317	Prints (monocolor/large)
	318	Prints (monocolor/small)
	319	Prints (black and white/large)
yes	320	Prints (black and white/small)
	321	Prints (full-color + monocolor/large)
yes	322	Prints (full-color + monocolor/small)
yes	323	Prints (full-color + monocolor/2)
yes	324	Prints (full-color + monocolor/1)
	325	Prints (full-color/large/two-sided)
yes	326	Prints (full-color/small/two-sided)
	327	Prints (monocolor/large/two-sided)
	328	Prints (monocolor/small/two-sided)
	329	Prints (black and white/large/two-sided)
yes	330	Prints (black and white/small/two-sided)

Compatibility	No.	Counter description
yes	331	PDL prints (total 1)
yes	332	PDL prints (total 2)
	333	PDL prints (large)
yes	334	PDL prints (small)
yes	335	PDL prints (full-color 1)
yes	336	PDL prints (full-color 2)
yes	339	PDL prints (black and white 1)
yes	340	PDL prints (black and white 2)
	341	PDL prints (full-color/large)
yes	342	PDL prints (full-color/small)
	345	PDL prints (black and white/large)
yes	346	PDL prints (black and white/small)
	351	PDL prints (full-color/large/two-sided)
yes	352	PDL prints (full-color/small/two-sided)
	355	PDL prints (black and white/large/two-sided)
yes	356	PDL prints (black and white/small/two-sided)
	401	Copies + prints (full-color/large)
yes	402	Copies + prints (full-color/small)
	403	Copies + prints (black and white/large)
yes	404	Copies + prints (black and white/small)
yes	405	Copies + prints (black and white 2)
yes	406	Copies + prints (black and white 1)
	407	Copies + prints (full-color + monocolor/large)
yes	408	Copies + prints (full-color + monocolor/small)
yes	409	Copies + prints (full-color + monocolor/2)
yes	410	Copies + prints (full-color + monocolor/1)
	411	Copies + prints (large)
yes	412	Copies + prints (small)
yes	413	Copies + prints (2)
yes	414	Copies + prints (1)
	415	Copies + prints (monocolor/large)
	416	Copies + prints (monocolor/small)
	417	Copies + prints (full-color/large/two-sided)
yes	418	Copies + prints (full-color/small/two-sided)
	419	Copies + prints (monocolor/large/two-sided)
	420	Copies + prints (monocolor/small/two-sided)
	421	Copies + prints (black and white/large/two-sided)
yes	422	Copies + prints (black and white/small/two-sided)
yes	501	Scans (total 1)
	502	Scans (total 2)
	503	Scans (large)
	504	Scans (small)
yes	505	Black and white scans (total 1)
yes	506	Black and white scans (total 2)
	507	Black and white scans (large)
yes	508	Black and white scans (small)
yes	509	Color scans (total 1)
yes	510	Color scans (total 2)
	511	Color scans (large)
yes	512	Color scans (small)
	601	Box prints (total 1)
	602	Box prints (total 2)
	603	Box prints (large)
	604	Box prints (small)
	605	Box prints (full-color 1)
	606	Box prints (full-color 2)
	607	Box prints (monocolor 1)
	608	Box prints (monocolor 2)
	609	Box prints (black and white 1)
	610	Box prints (black and white 2)
	611	Box prints (full-color/large)
	612	Box prints (full-color/small)
	613	Box prints (monocolor/large)
	614	Box prints (monocolor/small)
	615	Box prints (black and white/large)
	616	Box prints (black and white/small)

Compatibility	No.	Counter description
	617	Box prints (full-color + monochrome/large)
	618	Box prints (full-color + monochrome/small)
	619	Box prints (full-color + monochrome 2)
	620	Box prints (full-color + monochrome 1)
	621	Box prints (full-color/large/two-sided)
	622	Box prints (full-color/small/two-sided)
	623	Box prints (monochrome/large/two-sided)
	624	Box prints (monochrome/small/two-sided)
	625	Box prints (black and white/large/two-sided)
	626	Box prints (black and white/small/two-sided)
yes	631	Media prints (total 1)
yes	632	Media prints (total 2)
	633	Media prints (large)
yes	634	Media prints (small)
yes	635	Media prints (full-color 1)
yes	636	Media prints (full-color 2)
	637	Media prints (monochrome 1)
	638	Media prints (monochrome 2)
yes	639	Media prints (black and white 1)
yes	640	Media prints (black and white 2)
	641	Media prints (full-color/large)
yes	642	Media prints (full-color/small)
	643	Media prints (monochrome/large)
	644	Media prints (monochrome/small)
	645	Media prints (black and white/large)
yes	646	Media prints (black and white/small)
	647	Media prints (full-color + monochrome/large)
yes	648	Media prints (full-color + monochrome/small)
yes	649	Media prints (full-color + monochrome 2)
yes	650	Media prints (full-color + monochrome 1)
	651	Media prints (full-color/large/two-sided)
	652	Media prints (full-color/small/two-sided)
	653	Media prints (monochrome/large/two-sided)
	654	Media prints (monochrome/small/two-sided)
	655	Media prints (black and white/large/two-sided)
	656	Media prints (black and white/small/two-sided)
	661	PictBridge (total 1)
	662	PictBridge (total 2)
	663	PictBridge (large)
	664	PictBridge (small)
	665	PictBridge (full-color 1)
	666	PictBridge (full-color 2)
	667	PictBridge (monochrome 1)
	668	PictBridge (monochrome 2)
	669	PictBridge (black and white 1)
	670	PictBridge (black and white 2)
	671	PictBridge (full-color/large)
	672	PictBridge (full-color/small)
	673	PictBridge (monochrome/large)
	674	PictBridge (monochrome/small)
	675	PictBridge (black and white/large)
	676	PictBridge (black and white/small)
	677	PictBridge (full-color + monochrome/large)
	678	PictBridge (full-color + monochrome/small)
	679	PictBridge (full-color + monochrome 2)
	680	PictBridge (full-color + monochrome 1)
	681	PictBridge (full-color/large/two-sided)
	682	PictBridge (full-color/small/two-sided)
	683	PictBridge (monochrome/large/two-sided)
	684	PictBridge (monochrome/small/two-sided)
	685	PictBridge (black and white/large/two-sided)
	686	PictBridge (black and white/small/two-sided)
yes	701	Received prints (total 1)
yes	702	Received prints (total 2)
	703	Received prints (large)
yes	704	Received prints (small)

Compatibility	No.	Counter description
yes	705	Received prints (full-color 1)
yes	706	Received prints (full-color 2)
	707	Received prints (gray scale 1)
	708	Received prints (gray scale 2)
yes	709	Received prints (black and white 1)
yes	710	Received prints (black and white 2)
	711	Received prints (full-color/large)
yes	712	Received prints (full-color/small)
	713	Received prints (gray scale/large)
	714	Received prints (gray scale/small)
	715	Received prints (black and white/large)
yes	716	Received prints (black and white/small)
	717	Received prints (full-color + gray scale/large)
yes	718	Received prints (full-color + gray scale/small)
yes	719	Received prints (full-color + gray scale 2)
yes	720	Received prints (full-color + gray scale 1)
	721	Received prints (full-color/large/two-sided)
yes	722	Received prints (full-color/small/two-sided)
	723	Received prints (gray scale/large/two-sided)
	724	Received prints (gray scale/small/two-sided)
	725	Received prints (black and white/large/two-sided)
yes	726	Received prints (black and white/small/two-sided)
yes	801	Report prints (total 1)
yes	802	Report prints (total 2)
	803	Report prints (large)
yes	804	Report prints (small)
yes	805	Report prints (full-color 1)
yes	806	Report prints (full-color 2)
	807	Report prints (gray scale 1)
	808	Report prints (gray scale 2)
yes	809	Report prints (black and white 1)
yes	810	Report prints (black and white 2)
	811	Report prints (full-color/large)
yes	812	Report prints (full-color/small)
	813	Report prints (gray scale/large)
	814	Report prints (gray scale/small)
	815	Report prints (black and white/large)
yes	816	Report prints (black and white/small)
	817	Report prints (full-color + gray scale/large)
yes	818	Report prints (full-color + gray scale/small)
yes	819	Report prints (full-color + gray scale 2)
yes	820	Report prints (full-color + gray scale 1)
	821	Report prints (full-color/large/two-sided)
yes	822	Report prints (full-color/small/two-sided)
	823	Report prints (gray scale/large/two-sided)
	824	Report prints (gray scale/small/two-sided)
	825	Report prints (black and white/large/two-sided)
yes	826	Report prints (black and white/small/two-sided)
	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 scans (color)
	910	Local copy scans (black and white)
	911	Remote copy scans (color)
	912	Remote copy scans (black and white)
	913	Sent scan total 1 (color)
	914	Sent scan total 1 (black and white)
yes	915	Sent scan total 2 (color)
yes	916	Sent scan total 2 (black and white)
yes	917	Sent scan total 3 (color)
yes	918	Sent scan total 3 (black and white)

Compatibility	No.	Counter description
	919	Sent scan total 4 (color)
	920	Sent scan total 4 (black and white)
yes	921	Sent scan total 5 (color)
yes	922	Sent scan total 5 (black and white)
yes	929	Sent scan total 6 (color)
yes	930	Sent scan total 6 (black and white)
	931	Sent scan total 7 (color)
	932	Sent scan total 7 (black and white)
	933	Sent scan total 8 (color)
	934	Sent scan total 8 (black and white)
	935	Universal sent scan total (color)
	936	Universal sent scan total (black and white)
	937	Box scans (color)
	938	Box scans (black and white)
yes	939	Remote scans (color)
yes	940	Remote scans (black and white)
	941	Sent scans/faxes (color)
	942	Sent scans/faxes (black and white)
	943	Sent scans/I faxes (color)
	944	Sent scans/I faxes (black and white)
yes	945	Sent scans/e-mails (color)
yes	946	Sent scans/e-mails (black and white)
	947	Sent scans/FTP (color)
	948	Sent scans/FTP (black and white)
	949	Sent scans/SMB (color)
	950	Sent scans/SMB (black and white)
	951	Sent scans/IPX (color)
	952	Sent scans/IPX (black and white)
	953	Sent scans/databases (color)
	954	Sent scans/databases (black and white)
	955	Sent scans/local prints (color)
	956	Sent scans/local prints (black and white)
	957	Sent scans/box (color)
	958	Sent scans/box (black and white)
yes	959	Media scans (color)
yes	960	Media scans (black and white)

<CST>

T-5-25

COPIER > OPTION > CST	
Sub item	Description
CST-U1	Not used
CST-U2	Not used
CST-U3	Not used

<ACC>

T-5-26

COPIER > OPTION > ACC	
Sub item	Description
CARD	<p>Setting for installation of the new card reader</p> <p>Enter a card number.</p> <p>Setting range: 0 to 99999</p> <p>[Factory setting value/Value after RAM clearing: 0]</p> <p>When a card number is entered, the following settings are made.</p> <ul style="list-style-type: none"> - Initialize the information registered for department management. - Register the following number of cards based on the card number entered. <p>MF9130/MF9150c/MF9170/MF9170C/MF9330C/MF9340C/MF9340C/MF9370C/iR C1021/iR C1021i/iR c1022/iR C1022i/iR C2110F/iR C2110N:</p> <p>1000 cards</p> <p>MF8450/MF8450C:</p> <p>100 cards</p> <p>However, the number of usable IDs is 99999 maximum.</p> <ul style="list-style-type: none"> - When 0 is specified for the card number, the department ID is registered from 1.
CC-SPSW	<p>Setting of whether or not to support the control card I/F (CC-V)</p> <p>Setting value: 0: Do not support the control card I/F. 1: Support the control card I/F.</p> <p>[Factory setting value/Value after RAM clearing: 0]</p>

COPIER > OPTION > ACC	
Sub item	Description
COIN	ON/OFF setting for the coin vendor display - Change the message on the control panel prompting an operator to set a control card to the one prompting him/her to insert a coin. Setting value: 0: Default message; "Set a control card." 1: Message for a coin vendor; "Insert a coin." [Factory setting value/Value after RAM clearing: 0]
CONTROL	Control of PDL printer output Setting value: 0: Perform printing without a card. 1: Perform printing when a card is inserted. [Factory setting value/Value after RAM clearing: 0]

<LCNS-OF>

T-5-27

COPIER > OPTION > LCNS-OF	
Disabling no transfer of license - ST-xxxx, Display of the installation status	
Sub item	Description
ST-SEND	Display of the installation status of the Send function when disabling no transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
ST-BRDIM	Display of the installation status of BarDIMM when disabling no transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
ST-ERDS	Display of the installation status of the 3rd party extended function for ERDS when disabling no transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
ST-PCL	Display of the installation status of PCL when disabling non transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]

<LCNS-TR>

T-5-28

COPIER > OPTION > LCNS-TR	
Disabling license transfer - ST-xxxx, Display of the installation status	
Sub item	Description
ST-SEND	Display of the installation status of the Send function when disabling license transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
TR-SEND	Display of the 24-digit license key
ST-BRDIM	Display of the installation status of BarDIMM when disabling license transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
TR-BRDIM	Display of the 24-digit license key
ST-ERDS	Display of the installation status of the 3rd party extended function for ERDS when disabling license transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
TR-ERDS	Display of the 24-digit license key
ST-PCL	Display of the installation status of PCL when disabling license transfer Setting value: 0: ON, 1: OFF [Factory setting value/Value after RAM clearing: 0]
TR-PCL	Display of the 24-digit license key

5.1.6 COUNTER

5.1.6.1 COUNTER List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<TOTAL>

T-5-29

COPIER > COUNTER > TOTAL	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000.	
Sub item	Description
SERVICE1	Total counter for service: 1 Count up the counter value when the paper is delivered to outside of the printer. (Perform count-up regardless of large or small size.)
SERVICE2	Total counter for service: 2 Count up the counter value when the paper is delivered to outside of the printer. (Count up the value by 2 for large size, and 1 for small size.)
TTL	Total counter (copy + printer + FAX + composite function)
COPY	Total copy counter Count up the counter value when copy operation is executed and the paper is delivered to outside of the printer.
PDL-PRT	PDL print counter Count up the counter value when the paper is delivered to outside or stacked in double-sided mode according to the charging counter at the time of PDL printing. Do not perform count-up when a blank sheet is delivered or stacked. Count up the value by 1 for large and small sizes.

COPIER > COUNTER > TOTAL	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000.	
Sub item	Description
FAX-PRT	FAX reception print counter Count up the counter value when the paper is delivered to outside or stacked in double-sided mode according to the charging counter at the time of FAX reception. Do not perform count-up when a blank sheet is delivered or stacked. Count up the value by 1 for large and small sizes. The counter value can be cleared.
RPT-PRT	Report print counter Count up the counter value when the paper is delivered to outside or stacked in double-sided mode according to the charging counter at the time of report printing. Do not perform count-up when a blank sheet is delivered or stacked. Count up the value by 1 for large and small sizes. The counter value can be cleared.
2-SIDE	Double-sided copy/print counter Count up the number of times double-sided copying/printing is performed when the paper is delivered to outside or stacked in double-sided mode according to the charging counter. Do not perform count-up when a blank sheet is delivered or stacked. Count up the value by 1 for large and small sizes. The counter value can be cleared.
SCAN	Scanning counter Count up the number of times scanning is performed when reading is completed according to the charging counter. Count up the value by 1 for large and small sizes. The counter value can be cleared.

<PICK-UP>

T-5-30

COPIER > COUNTER > PICK-UP	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000.	
Sub item	Description
C1	Cassette 1 pickup total counter Display the number of sheets picked up from Cassette 1.
C2	Not used
C3	Not used
C4	Not used
MF	Manual feed total counter Display the number of sheets picked up from the manual feed pickup unit.
2-SIDE	Double-sided pickup total counter Display the number of sheets picked up in double-sided mode.

<FEEDER>

T-5-31

COPIER > COUNTER > FEEDER	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000.	
Sub item	Description
FEED	Total counter for documents picked up by ADF
DFOP-CNT	Display of the counter for the number of times the ADF hinge is opened/closed Count the number of times the ADF is opened/closed.

<JAM>

T-5-32

COPIER > COUNTER > JAM	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000.	
Sub item	Description
TOTAL	Total jam counter
FEEDER	Feeder total jam counter
SORTER	Not used
2-SIDE	Duplexing unit jam counter
MF	Multi-feeder jam counter
C1	Cassette 1 jam counter
C2	Not used
C3	Not used
C4	Not used

<MISC>

T-5-33

COPIER > COUNTER > MISC	
Sub item	Description
WST-TNR	Not used

<DRBL-2>

T-5-34

COPIER > COUNTER > DRBL-2	
Display/setting/adjustment range: 00000000 to 99999999 When 99999999 is exceeded, the value returns to 00000000. Use this item as a guide to know the timing of replacement of consumable parts. Be sure to clear the value after the replacement of parts.	
Sub item	Description
DF-SP-PD	Number of times the paper goes through the ADF separation pad Display range: 0 to 999999 (Limit: 50000) [Factory setting value/Value after RAM clearing: 0]
DF-SP-RL	Number of times the paper goes through the ADF pickup roller Display range: 0 to 999999 (Limit: 50000) [Factory setting value/Value after RAM clearing: 0]

5.2 FEEDER

5.2.1 ADJUST

5.2.1.1 ADJUST List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<ADJUST>

T-5-35

FEEDER > ADJUST	
Sub item	Description
DOCT	Adjustment of the position to stop the document when it is picked up from ADF (picked up from the document tray) Setting range: -100 to 100 For reference: When the value is increased, the margin at the lead edge is decreased.
LA-SPEED	Adjustment of the document feeding speed at DF stream reading Setting range: -512 to 512

5.2.2 FUNCTION

5.2.2.1 FUNCTION List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<FUNCTION>

T-5-36

FEEDER > FUNCTION	
Sub item	Description
FEED-CHK	Checking of paper transport at a single ADF Setting value: 0: Single-sided, 1: Double-sided
SL-ON	Start of solenoid operation
MTR-ON	Start of motor operation
FEED-ON	Checking of paper transport at a single ADF

5.3 FAX

5.3.1 SSSW

5.3.1.1 SSSW List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

T-5-37

SSSW No.	Bit No.	Function
01		(Error, Copy function-related)
	0	Error code output for service engineer
02		(Network connecting condition setting-related)
	4	Forbid communication control that supports V34 CCRTN OFF IP network
	7	Connect as F-network 2-type terminal
03		(Echo-related)
	0	TCF EQM check
	1	Transmit echo protection tone to V.29
	7	Output 1080Hz before CED

SSSW No.	Bit No.	Function
04		(Communication trouble-related)
	1	Check frequency of CI signal
	2	V.21 end flag
	3	Forbid duplex waiting of T.30 node
	4	T.30 node F echo timer
	5	Check frequency of CI signal at PBX settings
	6	Do not deliver CNG at manual transmission
05		(Standard function, DIS signal setting-related)
	1	mm/inch convert (text mode)
	2	mm/inch convert (text photo/photo mode)
	3	Forbid bit delivery after bit 33 of DIS
06		(Scanning condition settings)
	4	Scanning width 0: A4, 1: LTR
12		(Page timer settings-related) Time by 2-bit combination (0, 0): 8 min, (0, 1): 16 min, (1, 0): 32 min, (1, 1): 64min When bit 7 is 0: - 1page timeout time is specified with bit 1 and bit 0 regardless of any mode communication. When bit 7 is 1: - The timeout time for general transmission is specified with bit 1 and bit 0, for HT transmission with bit 3 and bit 2, for reception with bit 5 and bit 4
	0	1 page timeout time (transmission)
	1	
	2	1 page timeout time (HT transmission)
	3	
	4	1 page timeout time (reception)
	5	
13		
	2	Convert mm/inch when sending received image
14		
	2	Whether executing inch to mm conversion in both main and sub scanning directions, or in sub scanning direction only
15		
	2	Accept receiving ND line: Host machine line
	6	Detect continuous signal at F/T switching
18		
	0	Detect carrier disconnection between DCS and TCF
	1	Waiting time for carrier disconnection between DCS and TCF
22		
	0	Forbid delivering NSX
	3	Forbid manual polling operation
25		(Report display function settings-related)
	0	Prioritize received phone number to dialed number
	2	When receiving blank CSI, regard the CSI as not-received
28		
	3	Message language selection user SW
	0	Forbid V8 procedure at calling side
	1	Forbid V8 procedure at receiving side
	2	Forbid V8 late start at calling side
	3	Forbid V8 late start at receiving side
30		
	4	Forbid fallback start from V.34 receiving side
	5	Forbid fallback start from V.34 sending side
32		
	5	New dial tone detection method
33		
	0	0: NCU2004, 1: NCU2002
	2	(Record) whether to count B4 size as large size or not
	5	(Scan) whether to count B4 size as large size or not
35		Display toner replacement counter
	0	e-RDS function (0: OFF/1: ON)

42

Operating Method

(1) Setting tone parameter

With "#NCU" displayed, press set key -> Press "#TONE/PULSE" set key
-> Pressing "#TONE" set key makes the setting mode for tone parameter.

(2) Setting pulse parameter

With "#NCU" displayed, press set key -> Press "#TONE/PULSE" set key.
-> Pressing "#PULSE" set key makes the setting mode for pulse parameter.

T-5-40

Item		Function	Setting Range
TONE	01	Tone signal delivery time (PSTN)	10 to 9999 (ms)
	02	Minimum pause time (PSTN)	10 to 9999 (ms)
PULSE	PULSE FORM	Pulse digit format	0 -> DP (N) 1 -> DP (N + 1) 2 -> DP (10 - N)
	01	Pulse dial speed (10 pps)	5 to 300 (x 0.1 pps)
	03	Pulse dial make ratio	10 to 90 (%)
	04	Minimum pause time	10 to 9999 (ms)

<DIAL TONE>

(1) Bit switch

T-5-41

Bit No.	Function	1	0
0	Frequency sensing method	Modem	Tonal counter
1			
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal method	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-42

Parameter No.	Function	Setting Range
01	T0 timer	0 to 9999 (x 10 ms)
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 7
08	Number of signal frequencies	0 to 9999 (pce)

<2nd DIAL TONE>

(1) Bit switch

T-5-43

Bit No.	Function	1	0
0	Frequency sensing method	Modem	Tonal counter
1			
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal method	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-44

Parameter No.	Function	Setting Range
01	T0 timer	0 to 9999 (x 10 ms)
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 7
08	Number of signal frequencies	0 to 9999 (pce)

<BUSY TONE 0>

(1) Bit switch

T-5-45

Bit No.	Function	1	0
0			
1			
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal method	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-46

Parameter No.	Function	Setting Range
01		
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 7
08	Number of signal frequencies	0 to 9999 (pce)

<BUSY TONE 1>

(1) Bit switch

T-5-47

Bit No.	Function	1	0
0			
1			
2	Signal frequency	Changes	No change
3	RBT signal detection	Yes	No
4	Screening intermittent signal	From On	From Both
5	RBT signal checking cycle	1 cycle	1/2 cycle
6	Signal format	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-48

Parameter No.	Function	Setting Range
01		
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 7
08	Number of signal frequencies	0 to 9999 (pce)

<REORDER TONE>

(1) Bit switch

T-5-49

Bit No.	Function	1	0
0			
1	Signal sensing method	FED	FR3
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal format	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-50

Parameter No.	Function	Setting Range
01		
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 7
08	Number of signal frequencies	0 to 9999 (pce)

<AUTO RX>

(1) Numeric parameter

T-5-51

Parameter No.	Function	Setting Range
01	CI ON time	0 to 9999 (x 10 ms)
02	CI LONG ON time	0 to 9999 (x 10 ms)
03	CI OFF time	0 to 9999 (x 10 ms)
04	CI LONG OFF time	0 to 9999 (x 10 ms)
05	CI MAX OFF time	0 to 9999 (x 10 ms)
06	CI WAIT time	0 to 9999 (x 10 ms)
07	CI frequency	0 to 9999 (cycle)
08	Lower limit of CI frequency	0 to 9999 (Hz)
09	Upper limit of CI frequency	0 to 9999 (Hz)

<CNG DETECT>

(1) Numeric parameter

T-5-52

Parameter No.	Setting description		Setting range
01	At F/T switching	CNG MIN ON time	0 to 9999 (x 10 ms)
02		CNG MAX ON time	0 to 9999 (x 10 ms)
06		Hit ratio	0 to 9999 (%)
07	When answer phone is directly connected	CNG MIN ON time	0 to 9999 (x 10 ms)
08		CNG MAX ON time	0 to 9999 (x 10 ms)
09		instantaneous interruption tolerable time	0 to 9999 (x 10 ms)
11		Number of detection	0 to 9999 (times)
12		Hit ratio	0 to 9999 (%)

<SPECIAL N>

T-5-53

Number	Setting Description	Setting Range
04	CTC/EOR delivery timing	1 to 9 (times)
05	High speed flag delivery time in ECM mode	20 to 500 (x 10 ms)
06	Continuous delivery of 1 before image signal delivery	20 to 200 (x 10 ms)
07	Time from S relay ON to P relay OFF	0 to 9999 (x 10 ms)
08	Time that ring back tone parameter is ON	0 to 9999 (x 10 ms)
09	Time that ring back tone parameter is OFF	0 to 9999 (x 10 ms)
11	Lower limit in setting range for redial interval	2 to 99 (min)
12	DTMF delivery level (H1-3, PSTN)	0 to -16 (dBm)
13	DTMF delivery level (L1-4, PSTN)	0 to -16 (dBm)
14	ECM T5 timer	60 to 480 (sec)
15	ECM CD timer	0 to 9999 (ms)
16	CED detection level	0 to 9
17	Upper limit for F/T calling time	0 to 9999 (sec)
19	Number of trail edge margin (lines) at image's trail edge	0 to 9999 (lines)
20	Time to capture F/T line	0 to 9999 (sec) Special SW17 bit 4
24	Delivery time for V34 control channel flag	0 to 100 (x 10 ms)
25	Delivery time for V34 primary channel flag	20 to 500 (x 10 ms)
26	V34 fallback speed	1 to 4 (x 2.4 kbps)
27	Number of PPR to start V34 fallback	1 to 9 (times)
30	T2 timer	6 to 30 (sec)
40	Setting T2 timer value for V34 communication	
41	Synchronization interval for RETRY to use for synchronization of V8 procedure signal 'PC -> CC' at the time of receiving FAX	

Number	Setting Description	Setting Range
44	Number of times of RETRY to use for synchronization of V8 procedure signal 'PC -> CC' at the time of receiving FAX	
45	Waiting time with $\text{f}\ddot{\text{a}}\text{f}\text{eODT}\ddot{\text{a}}\text{ü}\text{m}\ddot{\text{a}}\text{@}\text{f}\text{ OFF}$	
46	Time to identify DialTone signal	
47	Time of not being disconnected in the case that DialTone signal is disconnected	
65	Number of maximum lines of A4 paper at the time of sending ÉJÉbÉgéÜ	
66	Number of maximum lines of B4 paper at the time of sending ÉJÉbÉgéÜ	

<RKEY>

(1) Numeric parameter

T-5-54

Parameter No.	Function	Setting Range
01	Flash connection time	0 to 9999 (x 10 ms)
02	Grounding time	0 to 9999 (x 10 ms)

<PBX DIAL TONE>

(1) Bit switch

T-5-55

Bit No.	Function	1	0
0	Frequency sensing method	Modem	Tonal counter
1			
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal format	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-56

Parameter No.	Function	Setting Range
01	T0 timer	0 to 9999 (x 10 ms)
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 9
08	Number of signal frequencies	0 to 9999 (pce)

<PBX BUSY TONE>

(1) Bit switch

T-5-57

Bit No.	Function	1	0
0			
1			
2	Signal frequency	Changes	No change
3			
4	Screening intermittent signal	From ON	From both
5			
6	Signal format	Continuous	Intermittent
7	Signal sensing	Yes	No

(2) Numeric parameter

T-5-58

Parameter No.	Function	Setting Range
01		
02	T1 timer	0 to 9999 (x 10 ms)
03	T2 timer	0 to 9999 (x 10 ms)
04	T3 timer	0 to 9999 (x 10 ms)
05	T4 timer	0 to 9999 (x 10 ms)
06	Signal sensing table	0 to 16
07	Signal sensing level	0 to 9
08	Number of signal frequencies	0 to 9999 (pce)

5.4 TESTMODE

5.4.1 SYSTEM

5.4.1.1 SYSTEM List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<DRAM>

T-5-59

TESTMODE > SYSTEM > DRAM	
Check DRAM	
Sub item	Description
TEST1	Check writing/reading of data in DRAM area (excluding system work area)
TEST2	Check data reading (high speed)

<ACC>

T-5-60

TESTMODE > SYSTEM > ACC	
Check ID control card reader	
Sub item	Description
NCR-CRD	Display: presence/absence of NCR device or the card
CRD-KIND	Card type (the first 3-digit characters)
CRD-STYL	Card format (the second 3-digit characters)
READ-STS	Read status (the third 3/2-digit characters)
NCR-STS	Device status (the fourth character)
NCR-VER	Version of NCR device (4-digit numeric figures)

<SPEAKER>

T-5-61

TESTMODE > SYSTEM > SPEAKER	
Check SPEAKER	
Sub item	Description
ON	When "ON" is selected, increase the volume step by step from the minimum up to maximum whenever OK key is pressed. When reaching the maximum volume, it goes back to the minimum volume through silent state.
MIN	When "MIN" is selected, set off the minimum volume with OK key.
MAX	When "MAX" is selected, set off the maximum volume with OK key.
VOL	Set off the volume according to the hardware volume.

5.4.2 SCAN

5.4.2.1 SCAN List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<ADJUST>

T-5-62

TESTMODE > SCAN > ADJUST	
Sub item	Description
WLVL-ADJ	Correct white level in copyboard scanning and stream scanning to determine shading target.
READ	Start copyboard scanning operation to read white level of the document (original).
F-READ	Start stream scanning operation to read white level at stream scanning.
DT-DF1-RGB	Display DT-DF1-RGB
DT-DF2-RGB	Display DT-DF2-RGB
ADF-ADJ	Execute adjustment of ADF
DF-STRM	Enter adjustment value in main (horizontal) scanning direction
DF-SPEED	Enter adjustment value for paper feeding speed
DF-OFFST	Enter adjustment value for stop position of document in DF
DF-POSAD	Not used

<SENSOR>

T-5-63

TESTMODE > SCAN > ADJUST	
Checking Sensor	
Sub item	Description
HP-SENS	Home position sensor 1: HP, 0: anything other than HP

TESTMODE > SCAN > ADJUST	
Checking Sensor	
Sub item	Description
TP-SENS	Sensor for paper in tray 1: presence of paper, 0: no paper
REG-SENS	Pre-registration sensor 1: presence of paper, 0: no paper
ESS-SENS	Front door sensor 1: ON, 0: OFF

<ADFTEST>

T-5-64

TESTMODE > SCAN > ADFTEST	
ADF Feeding Test	
Execute feeding operation according to the scanning feeding speed (specified in SPEED, 2-SIDE, COUNT)	
Sub item	Description
SPEED	Specify ADF feeding speed
2-SIDE	Select ON/OFF for duplex mode
COUNT	Counter for the number of document (originals): Yes
START	Start feeding

<BOOKFEED>

T-5-65

TESTMODE > SCAN > BOOKFEED	
Testing Book Feed Operation	
Sub item	Description
PAGE	Display the number of pages that had been book-fed
START	Start book feeding

5.4.3 PRINT

5.4.3.1 PRINT List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<PRINT>

T-5-66

TESTMODE > PRINT	
Printing PG pattern	
Sub item	Description
PG-TYPE	Enter PG number
COUNT	Enter the number to be output
PHASE	Select 1-sided/2-sided
MODE	Not used
THRU	Selection is available for gamma correction (ON/OFF)
DENS-M	Not used
DENS-C	Not used
DENS-Y	Not used
DENS-K	Not used
COLOR-M	Selection for each color is available The selected color (ON) is to be output. Setting value: 1: ON, 0: OFF
COLOR-C	Selection for each color is available The selected color (ON) is to be output. Setting value: 1: ON, 0: OFF
COLOR-Y	Selection for each color is available The selected color (ON) is to be output. Setting value: 1: ON, 0: OFF
COLOR-K	Selection for each color is available The selected color (ON) is to be output. Setting value: 1: ON, 0: OFF
SIZE	Display paper size
PAPER	Display presence/absence of paper
MATERIAL	Display paper type
F-UP-DWN	Not used
FEED	Selection for the pickup position
START	Start PG pattern print Execute output that has been selected above by pressing it.

5.4.4 FAX

5.4.4.1 FAX List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<MODEM>

T-5-67

TESTMODE > FAX > MODEM	
Sub item	Description
RELAY-1	Test ON/OFF state of NCU's each relay and port SW
RELAY-2	Test ON/OFF state of NCU's each relay and port SW
FREQ	Close DC circuit to deliver the selected frequency using the modem's tone delivery function.
G3TX	Close DC circuit to deliver the selected signal pattern with the selected frequency using the modem's G3 signal delivery function.
DTMFTX	Close DC circuit to deliver DTMF signal using the modem's DTMF delivery function.
V34G3TX	Close DC circuit to deliver the selected frequency using the modem's G3 signal delivery function (V. 34)

<FACULTY>

T-5-68

TESTMODE > FAX > FACULTY	
Sub item	Description
G34800TX	Close DC circuit to deliver the frequency of 4800bps using the modem's G3 signal delivery function.
DETECT1	Ring detection Check Ci, Fc and hook state (ON, OFF) from l-line.
DETECT2	CNG detection test 1 Check CNG signal and FED Make CML relay at ON state to detect CNG
DETECT3	CNG detection test 2 Check CNG signal and FED Make CML relay at OFF state to detect CNG

5.4.5 PANEL

5.4.5.1 PANEL List

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

<PANEL>

T-5-69

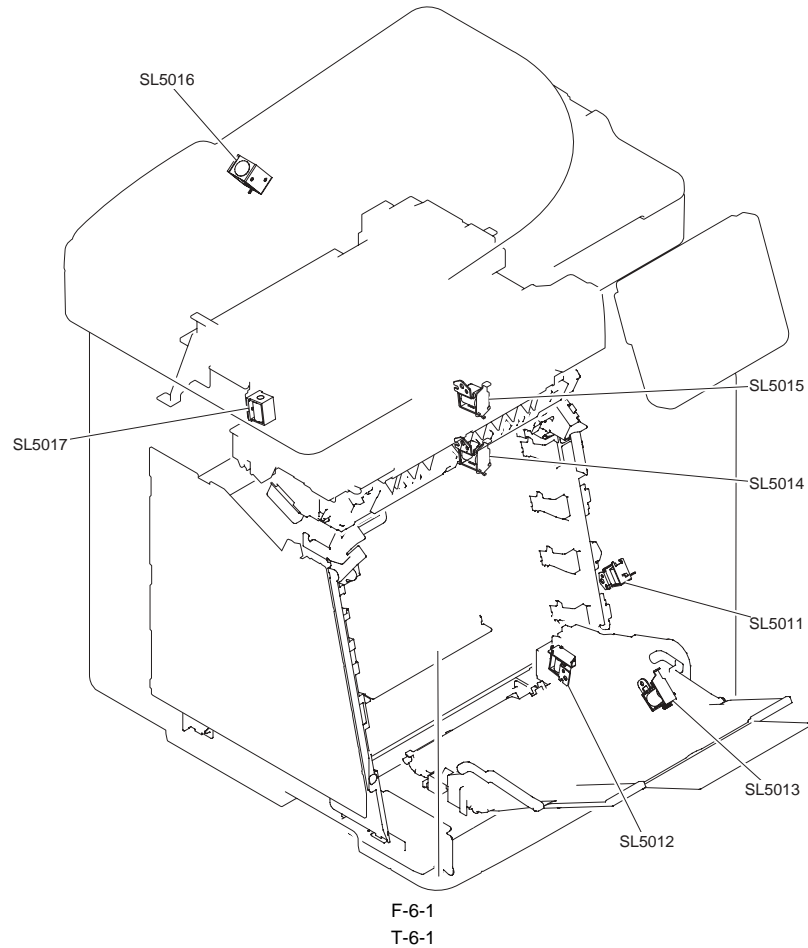
TESTMODE > PANEL	
Checking LCD, LED, Key	
Sub item	Description
KEY-CHK	Check Key
LED-CHK	Check LED
LCD-CHK	Check LCD
FLCK-CHK	Check flicker

Chapter 6 Outline of Components

6.1 Clutch/Solenoid

6.1.1 Solenoids

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

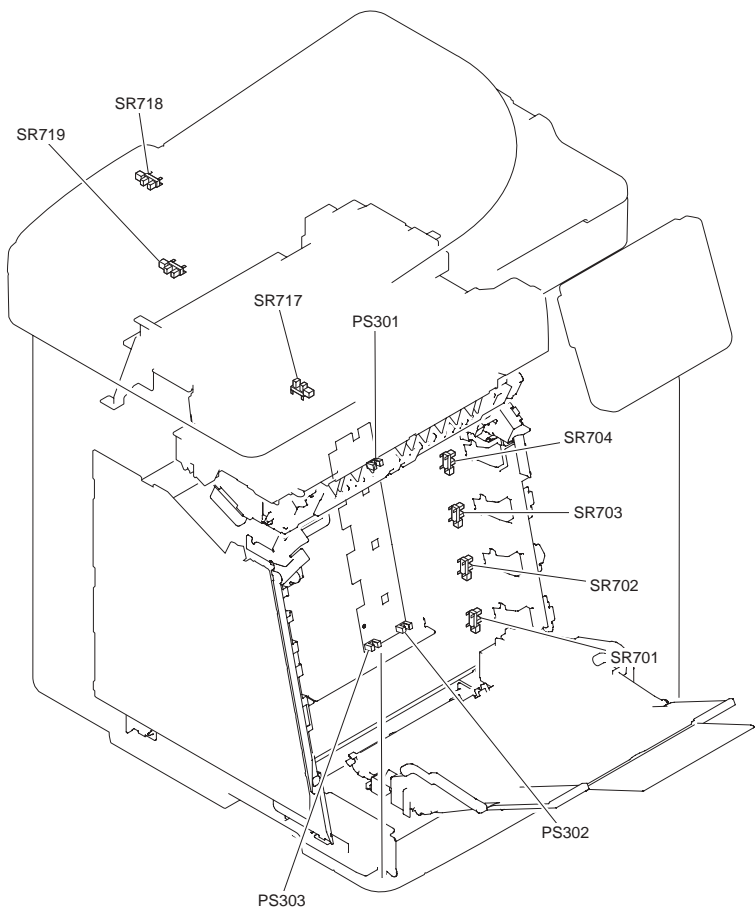


Notation	Name
SL5011	ETB disengagement solenoid
SL5012	cassette pickup solenoid
SL5013	manual pickup solenoid
SL5014	YMC developing disengagement solenoid
SL5015	Bk developing disengagement solenoid
SL5016	ADF pickup solenoid
SL5017	reverse solenoid

6.2 Sensor

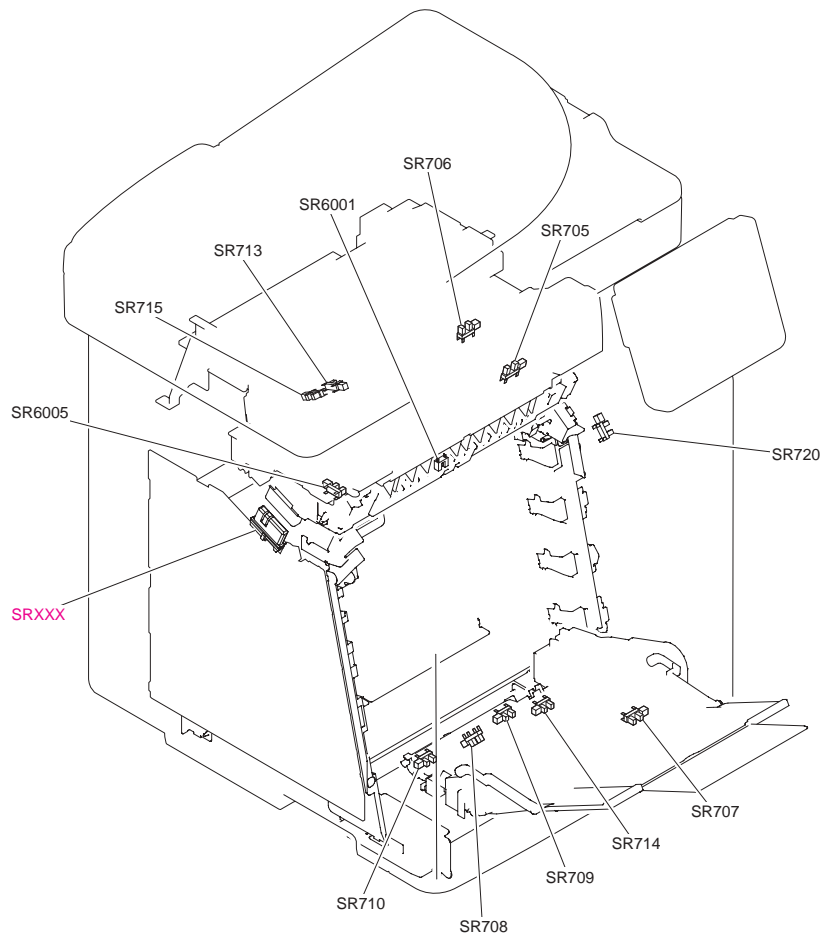
6.2.1 Sensors

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



F-6-2
T-6-2

Notation	Name
PS301	YMC developing disengagement sensor
PS302	Bk developing disengagement sensor
PS303	new cartridge sensor
SR701	M drum HP sensor
SR702	C drum HP sensor
SR703	Y drum HP sensor
SR704	Bk drum HP sensor
SR717	reader HP sensor
SR718	ADF paper sensor
SR719	ADF paper trailing edge sensor



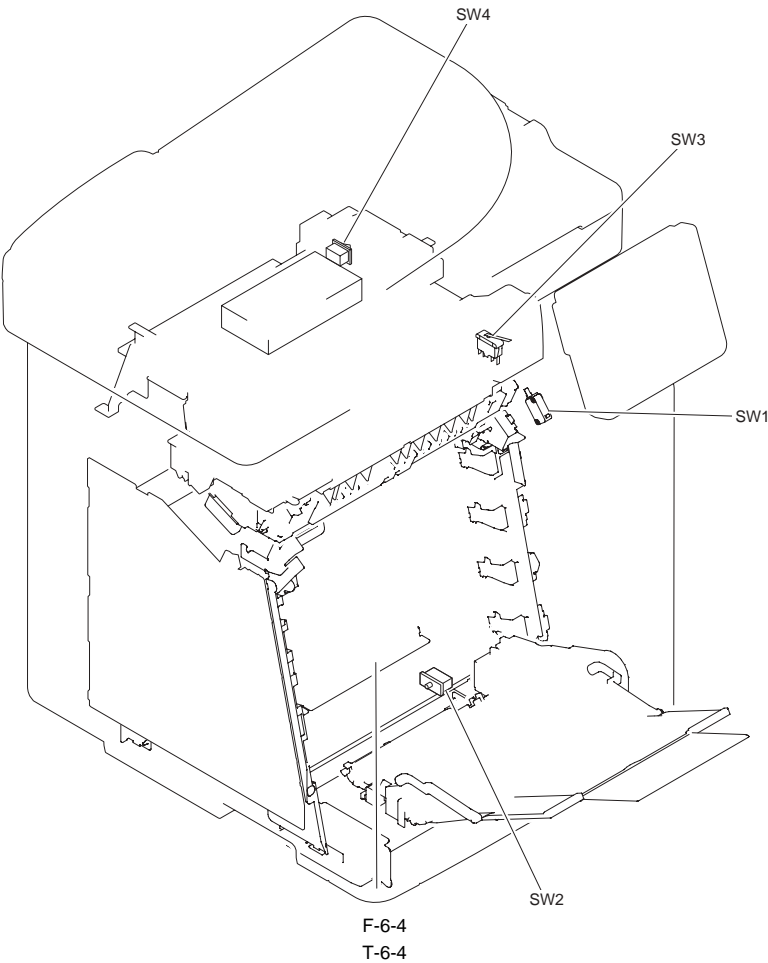
F-6-3
T-6-3

Notation	Name
SR705	fixing pressure release sensor
SR706	reverse sensor
SR707	manual feed paper sensor
SR708	pre-registration sensor
SR709	cassette paper sensor
SR710	registration sensor
SR713	delivery paper full-level sensor
SR714	paper displacement sensor
SR715	delivery sensor
SR720	front cover sensor
SR6001	paper loop sensor
SR6005	fixing delivery sensor

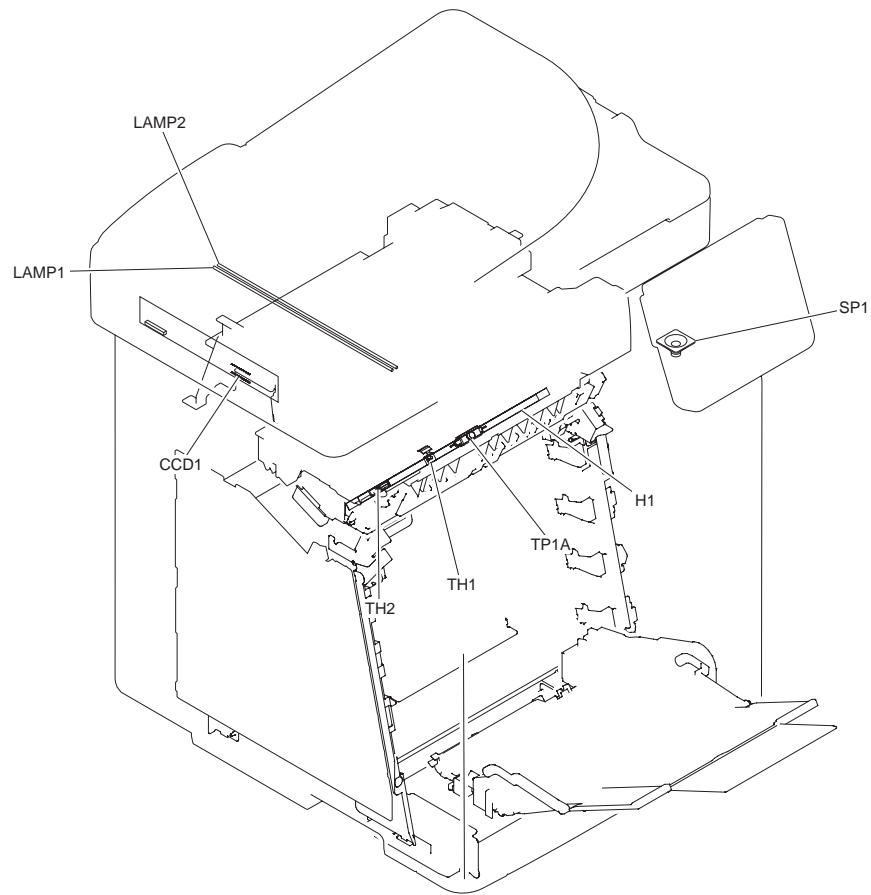
6.3 Switch

6.3.1 Switches, Speaker, and Thermistors

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



Notation	Name
SW1	front cover detection switch
SW2	cassette detection switch
SW3	delivery cover detection switch
SW4	power switch



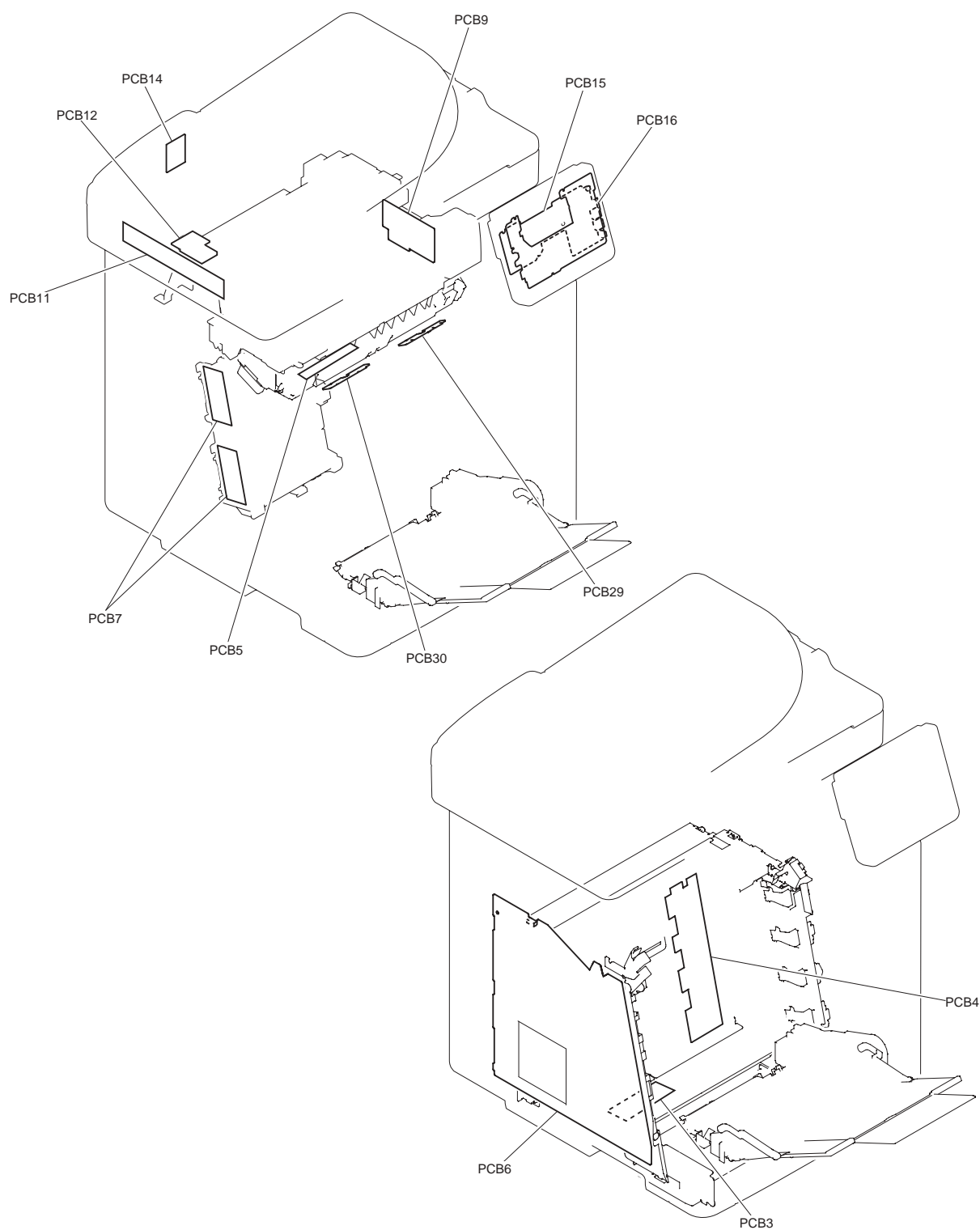
F-6-5
T-6-5

Notation	Name
CCD1	CCD
H1	fixing heater
LAMP1	document lamp
LAMP2	document lamp
SP1	speaker
TH1	fixing main thermistor
TH2	fixing sub thermistor
TP1A	fixing thermal switch

6.4 PCBs

6.4.1 PCBs

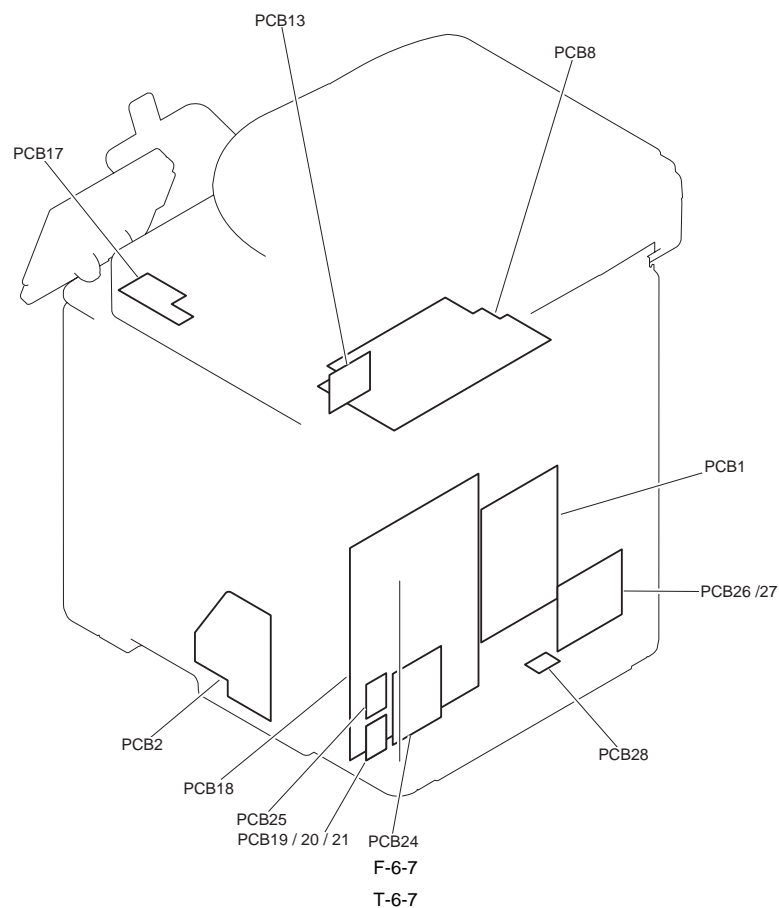
i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



F-6-6

T-6-6

Notation	Name	Notation	Name	Notation	Name
PCB3	pickup relay PCB	PCB4	memory controller PCB	PCB5	fixing relay PCB
PCB6	high-voltage power PCB	PCB7	laser driver PCB	PCB9	reverse driver PCB
PCB11	CCD PCB	PCB12	inverter PCB	PCB14	ADF relay PCB
PCB15	control panel main PCB	PCB16	control panel jog PCB		
PCB29	color displacement/density sensor (right)	PCB30	color displacement/density sensor (left)		

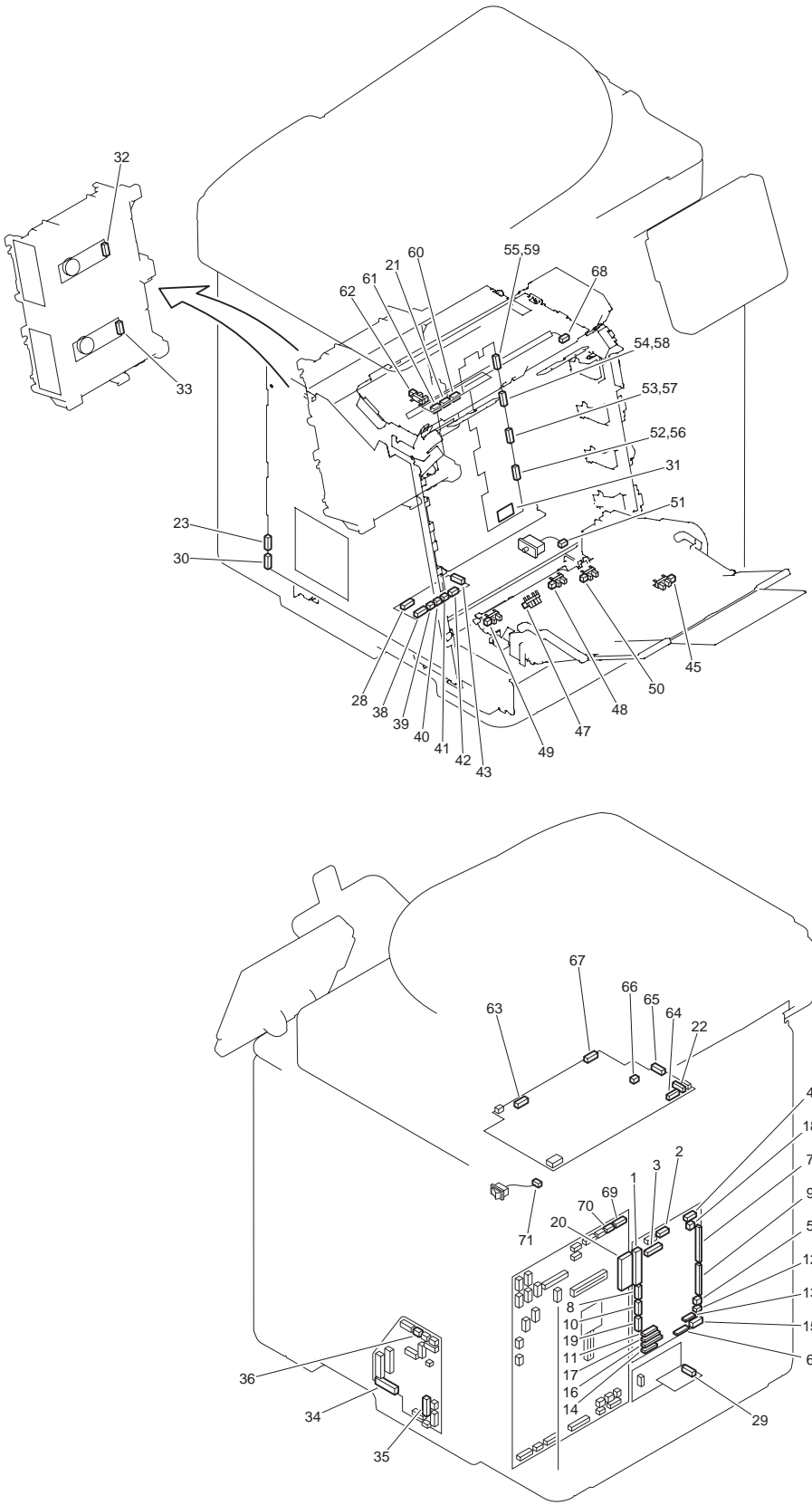


Notation	Name
PCB1	DC controller PCB
PCB2	driver PCB
PCB8	low-voltage power PCB
PCB13	CCD relay PCB
PCB17	control panel relay PCB
PCB18	main controller PCB
PCB19	modular PCB
PCB20	modular PCB
PCB21	modular PCB
PCB24	NCU PCB
PCB25	serial I/F PCB
PCB26	pseudo CI PCB (for Japan)
PCB27	off hook PCB (for outside Japan)
PCB28	environment sensor

6.5 Location of Connectors

6.5.1 Location of Connectors

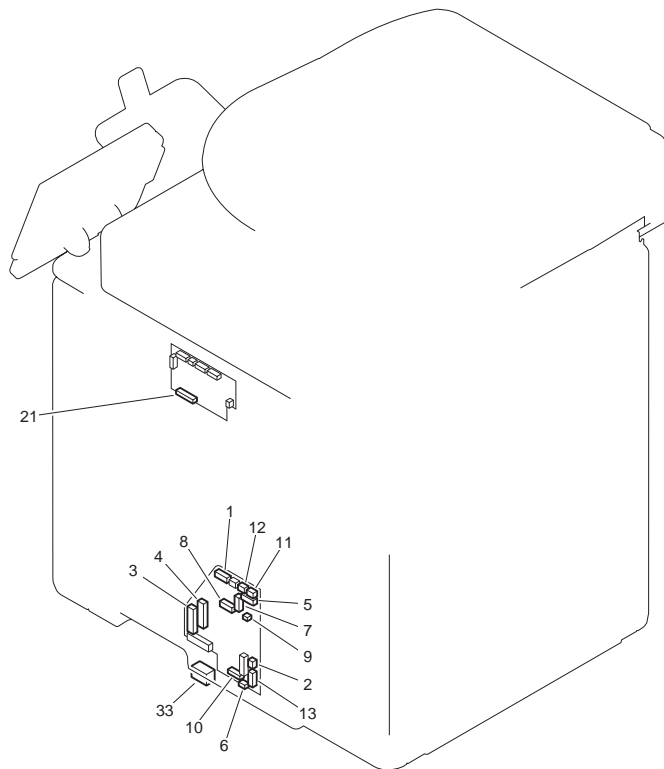
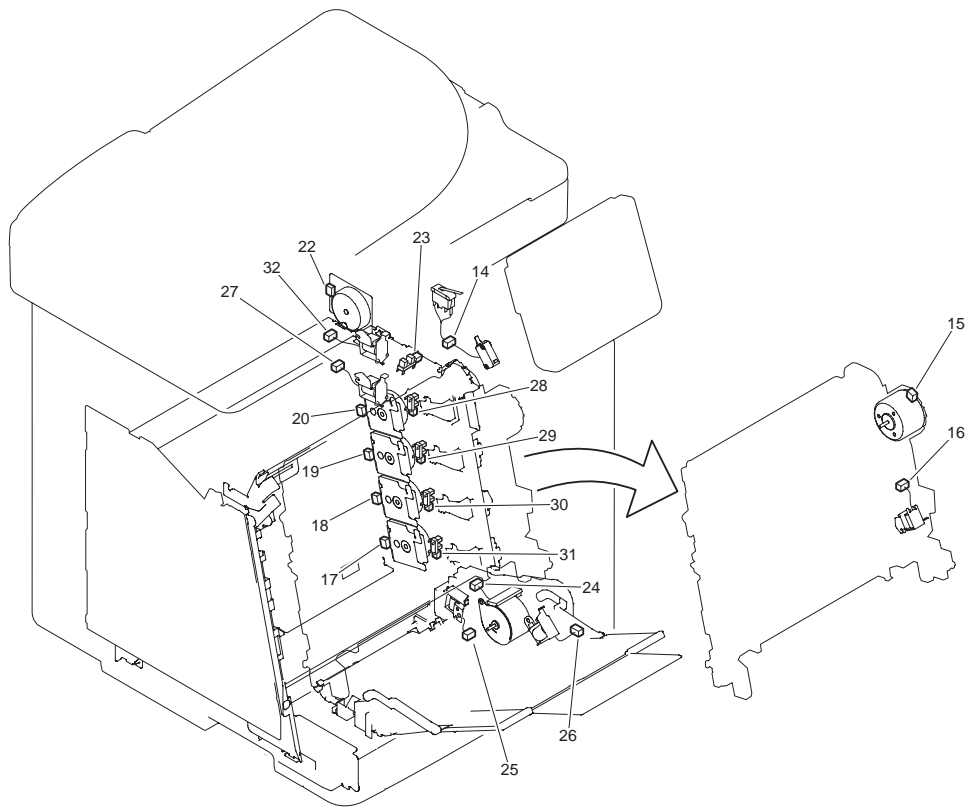
i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



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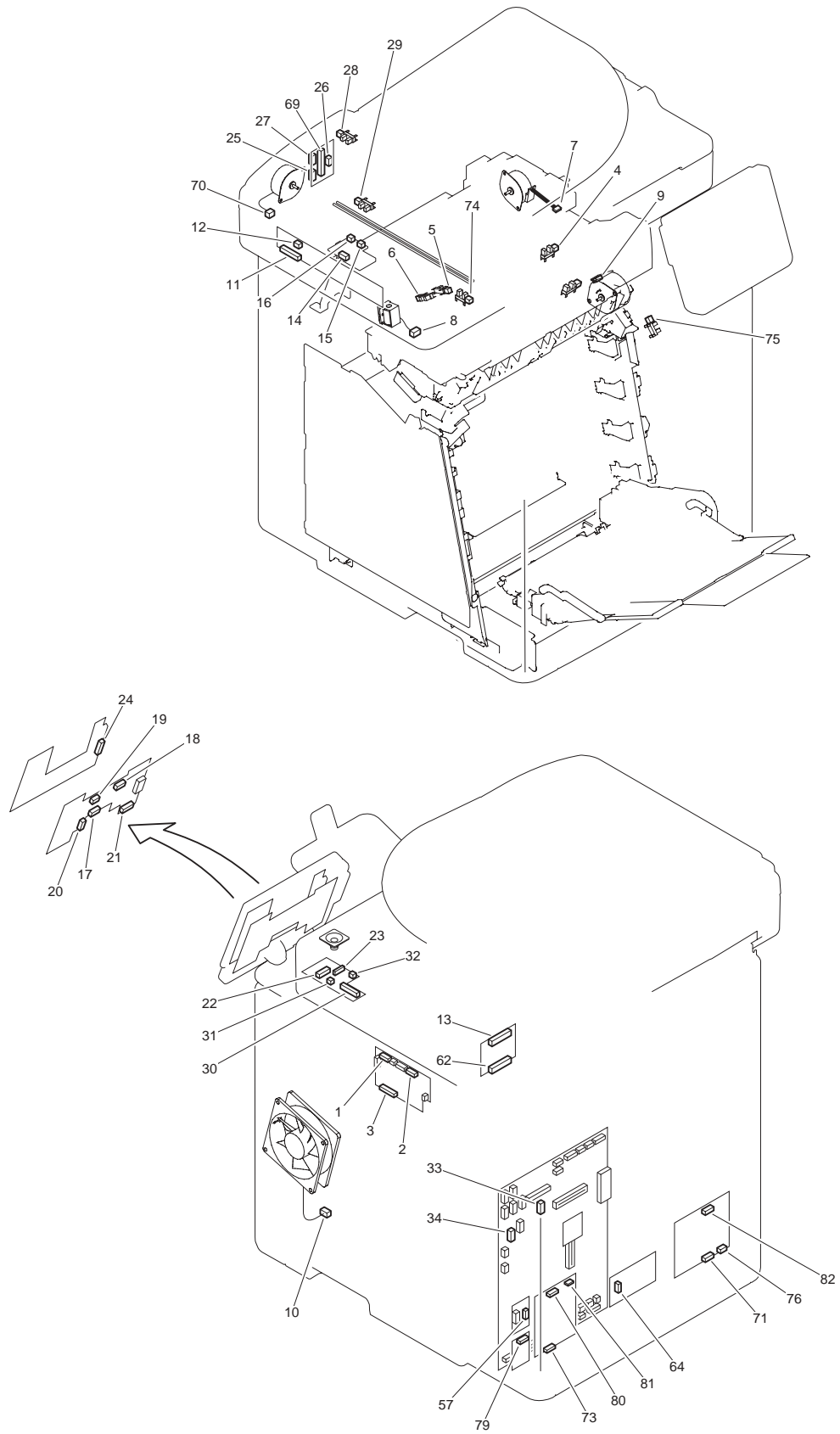
No.	Notation	J No.	Electric parts name	Relay connector		No.	J No.	Notation	Electric parts name	Remarks
1	PCB1	J1001	DC controller PCB			20	J8112	PCB18	main controller PCB	
2	PCB1	J1002	DC controller PCB	J6007		21	J6001	PCB6	fixing relay PCB	
3	PCB1	J1004	DC controller PCB	J5027		22	J3004	PCB8	low-voltage power PCB	
4	PCB1	J1006	DC controller PCB	J5026		4	-	PCB8	low-voltage power PCB	
5	PCB1	J1008	DC controller PCB			5	J1008	FM1	main unit fan	
6	PCB1	J1009	DC controller PCB			23	J2001	PCB6	high-voltage power PCB	
7	PCB1	J1010	DC controller PCB			24	J101	PCB7	laser driver PCB	
8	PCB1	J1011	DC controller PCB	J5028		25	-		ēāēēēēēēēēēē	
9	PCB1	J1012	DC controller PCB			26	J102	PCB7	laser driver PCB	
10	PCB1	J1013	DC controller PCB	J5029		27	-		ēāēēēēēēēēēē	
11	PCB1	J1014	DC controller PCB			28	J7001	PCB3	pickup relay PCB	
12	PCB1	J1018	DC controller PCB			29	J8002	PCB28	environment sensor	
13	PCB1	J1019	DC controller PCB			30	J2002	PCB6	high-voltage power PCB	
14	PCB1	J1020	DC controller PCB			31	J301	PCB4	memory controller PCB	
15	PCB1	J1021	DC controller PCB			32	J5001A	M2	scanner motor 1	
15	PCB1	J1021	DC controller PCB			33	J5001B	M3	scanner motor 2	
16	PCB1	J1022	DC controller PCB			34	J201	PCB2	driver PCB	
17	PCB1	J1023	DC controller PCB			35	J401	PCB2	driver PCB	
18	PCB1	J1024	DC controller PCB			36	J202	PCB2	driver PCB	
19	PCB1	J1025	DC controller PCB	J5030		37	-		ēāēēēēēēēēēē	
38	PCB3	J7002	pickup relay PCB	J504	J503	38	-	PCB29	color displacement/density sensor (right)	
38	PCB3	J7002	pickup relay PCB	J504	J503	38	-	PCB30	color displacement/density sensor (left)	
39	PCB3	J7003	pickup relay PCB			44	-	LED1	ēēēēēēēēēēēē	
39	PCB3	J7003	pickup relay PCB			45	J707	SR707	manual feed paper sensor	
40	PCB3	J7004	pickup relay PCB			46	J601	SW1	front cover detection switch	
41	PCB3	J7005	pickup relay PCB			47	J708	SR708	pre-registration sensor	
42	PCB3	J7006	pickup relay PCB			48	J709	SR709	cassette paper sensor	
42	PCB3	J7006	pickup relay PCB			49	J710	SR710	registration sensor	
42	PCB3	J7006	pickup relay PCB			50	J714	SR714	paper displacement sensor	
43	PCB3	J7007	pickup relay PCB			51	J604	SW2	cassette detection switch	
52	PCB4	J302	memory controller PCB			56	J310	-	TAGÉtÉçÄ[ÉēÉBÉiÉOÉÉRÉiÉ NÉ^	
53	PCB4	J303	memory controller PCB			57	J311	-	TAGÉtÉçÄ[ÉēÉBÉiÉOÉÉRÉiÉ NÉ^	
54	PCB4	J304	memory controller PCB			58	J312	-	TAGÉtÉçÄ[ÉēÉBÉiÉOÉÉRÉiÉ NÉ^	
55	PCB4	J305	memory controller PCB			59	J313	-	TAGÉtÉçÄ[ÉēÉBÉiÉOÉÉRÉiÉ NÉ^	
60	PCB5	J6002	fixing relay PCB			62	J6005	SR6005	fixing delivery sensor	
61	PCB5	J6003	fixing relay PCB			61	-	TH1	fixing main thermistor	
61	PCB5	J6003	fixing relay PCB			61	-	TH2	fixing sub thermistor	
63	PCB8	J3003	low-voltage power PCB	J6007		68	J6009	H1	fixing heater	
64	PCB8	J3012	low-voltage power PCB	J5025		69	J8125	PCB18	main controller PCB	
65	PCB8	J3013	low-voltage power PCB	J5024		70	J8129	PCB18	main controller PCB	
66	PCB8	J3016	low-voltage power PCB	J5025		69	J8125	PCB18	main controller PCB	
67	PCB8	J3020	low-voltage power PCB			71	J3020	SW4	power switch	



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No.	Notation	J No.	Electric parts name	Relay connector	No.	J No.	Notation	Electric parts name	Remarks
1	PCB2	J203	driver PCB		14	J5023	SW1	front cover detection switch	
1	PCB2	J203	driver PCB		14	J5023	SW3	delivery cover detection switch	
2	PCB2	J206	driver PCB	J5010	15	J5002	M5	ETB motor	
2	PCB2	J206	driver PCB	J5010	16	J5011	SL5011	ETB disengagement solenoid	
3	PCB2	J207	driver PCB		17	J5003	M6	M drum motor	
3	PCB2	J207	driver PCB		18	J5004	M7	C drum motor	
4	PCB2	J208	driver PCB		19	J5005	M8	Y drum motor	
4	PCB2	J208	driver PCB		20	J5006	M9	Bk drum motor	
5	PCB2	J209	driver PCB		21	J850	PCB9	reverse driver PCB	
6	PCB2	J210	driver PCB		6	-	SW2	cassette detection switch	
7	PCB2	J213	driver PCB		22	J5008	M1	fixing motor	
7	PCB2	J213	driver PCB		23	J705	SR705	fixing pressure release sensor	
8	PCB2	J402	driver PCB		24	J5007	M4	pickup motor	
8	PCB2	J402	driver PCB		25	J5012	SL5012	cassette pickup solenoid	
8	PCB2	J402	driver PCB		26	J5013	SL5013	manual pickup solenoid	
9	PCB2	J403	driver PCB		27	J403	SL5014	YMC developing disengagement solenoid	
10	PCB2	J404	driver PCB		28	J701	SR704	Bk drum HP sensor	
10	PCB2	J404	driver PCB		29	J702	SR703	Y drum HP sensor	
10	PCB2	J404	driver PCB		30	J703	SR702	C drum HP sensor	
10	PCB2	J404	driver PCB		31	J704	SR701	M drum HP sensor	
11	PCB2	J405	driver PCB		32	J405	SL5015	Bk developing disengagement solenoid	
12	PCB2	J406	driver PCB		21	J850	PCB9	reverse driver PCB	
13	PCB2	J410	driver PCB	J4010	33	J4010		paper feeder	



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No.	Notation	J No.	Electric parts name	Relay connectro	No.	J No.	Notation	Electric parts name	Remarks
1	PCB9	J802	reverse driver PCB	J5016	4	J706	SR706	reverse sensor	
1	PCB9	J802	reverse driver PCB	J5016	5	J711	SR713	delivery paper full-level sensor	
1	PCB9	J802	reverse driver PCB	J5016	6	J712	SR715	delivery sensor	
2	PCB9	J805	reverse driver PCB		7	J5018	M11	reverse motor	
2	PCB9	J805	reverse driver PCB	J5017	8	J5019	SL5017	reverse solenoid	
3	PCB9	J850	reverse driver PCB		9	J820	M10	duplexing feed motor	
3	PCB9	J850	reverse driver PCB		10	J823	FM2	duplex fan	
11	PCB11	J8501	CCD PCB		13	J6151	PCB13	CCD relay PCB	
12	PCB11	J8502	CCD PCB		14	J9102	PCB12	inverter PCB	
15	PCB12	J9103	inverter PCB		15	-	LAMP1	document lamp	
16	PCB12	J9104	inverter PCB		16	-	LAMP2	document lamp	
17	PCB15	J101	control panel main PCB		22	J201A	PCB17	control panel relay PCB	
18	PCB15	J102	control panel main PCB		18	-	-	control panel LCD	
19	PCB15	J103	control panel main PCB		19	-	-	control panel LCD	
20	PCB15	J104	control panel main PCB		23	J204	PCB17	control panel relay PCB	
21	PCB15	J105	control panel main PCB		24	J201B	PCB16	control panel jog PCB	
25	PCB14	J6032	ADF relay PCB		25	-	M13	ADF pickup motor	
26	PCB14	J6033	ADF relay PCB		26	-	SL5016	ADF pickup solenoid	
27	PCB14	J6034	ADF relay PCB		28	J718	SR718	ADF paper sensor	
27	PCB14	J6034	ADF relay PCB		29	J719	SR719	ADF paper trailing edge sensor	
30	PCB17	J202	control panel relay PCB		33	J8114	PCB18	main controller PCB	
31	PCB17	J203	control panel relay PCB		31	J203	SP1	speaker	
32	PCB17	J205	control panel relay PCB		34	J8103	PCB18	main controller PCB	
35	PCB18	J8101	main controller PCB		57	J6010	PCB25	serial I/F PCB	
36	PCB18	J8102	main controller PCB		58	J6011		ICeŦŦäpăŦŦ	
37	PCB18	J8103	main controller PCB		32	J205	PCB17	control panel relay PCB	
38	PCB18	J8104	main controller PCB		59	J6013		USB	
39	PCB18	J8110	main controller PCB		60	J6014		SD-CARD	
40	PCB18	J8111	main controller PCB		61	J6015		LAN	
41	PCB18	J8113	main controller PCB		62	J6101	PCB13	CCD relay PCB	
42	PCB18	J8114	main controller PCB		30	J202	PCB17	control panel relay PCB	
43	PCB18	J8115	main controller PCB		63	J6019		FRAMäŦŦ	
44	PCB18	J8116	main controller PCB		64	J6020	PCB23	ÉŦŦŦgIDäŦŦ	
45	PCB18	J8117	main controller PCB	J6021	65	J6035		CC-ŦŦ	
46	PCB18	J8118	main controller PCB		66	J6014		ÄuSD-CARDÄvÇŦŦÉ_ÉuÇŦŦ	100/230V
46	PCB18	J8118	main controller PCB		67	J6022		RSŦŦäŦŦ{ÄŦŦŦŦ	120V
47	PCB18	J8119	main controller PCB	J6023	68	J6036		ÉVŦŦäŦŦäŦŦEJAŦŦŦŦäAŦŦŦ_	
48	PCB18	J8120	main controller PCB		69	J6028	PCB14	ADF relay PCB	
49	PCB18	J8121	main controller PCB		70	J5015	M12	reader motor	
50	PCB18	J8126	main controller PCB		71	J280	PCB26	pseudo CI PCB	100V
51	PCB18	J8127	main controller PCB		72	J1	PCB24	NCU PCB	
52	PCB18	J8128	main controller PCB		73	J2	PCB24	NCU PCB	
53	PCB18	J8131	main controller PCB	J5014	74	J715	SR717	reader HP sensor	
54	PCB18	J8133	main controller PCB		75	J720	SR720	front cover sensor	
55	PCB18	J8134	main controller PCB		76	J281	PCB26	pseudo CI PCB	100V
55	PCB18	J8134	main controller PCB		77	J281	PCB27	off hook PCB	120/230V
56	PCB18	J8140	main controller PCB		78	J6022		RSŦŦäŦŦ{ÄŦŦŦŦ	120V
79	PCB19	J8151	modular PCB (120V)		80	J3	PCB24	NCU PCB	
79	PCB20	J8151	modular PCB (100V)		80	J3	PCB24	NCU PCB	
79	PCB21	J8151	modular PCB (230V)		80	J3	PCB24	NCU PCB	
81	PCB24	J4	NCU PCB		82	J282	PCB26	pseudo CI PCB	10

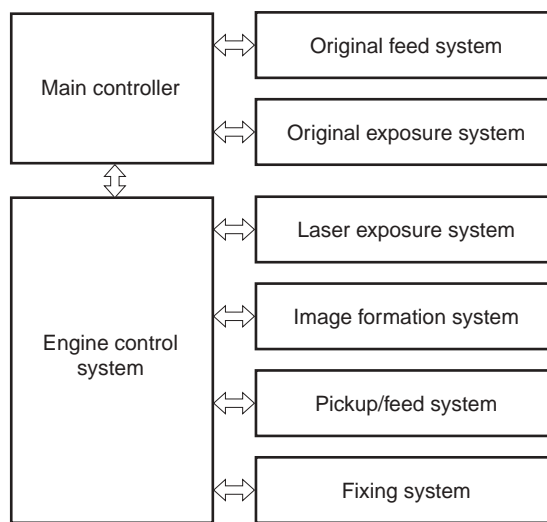
Chapter 7 System Construction

7.1 Construction

7.1.1 Functional Configuration

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

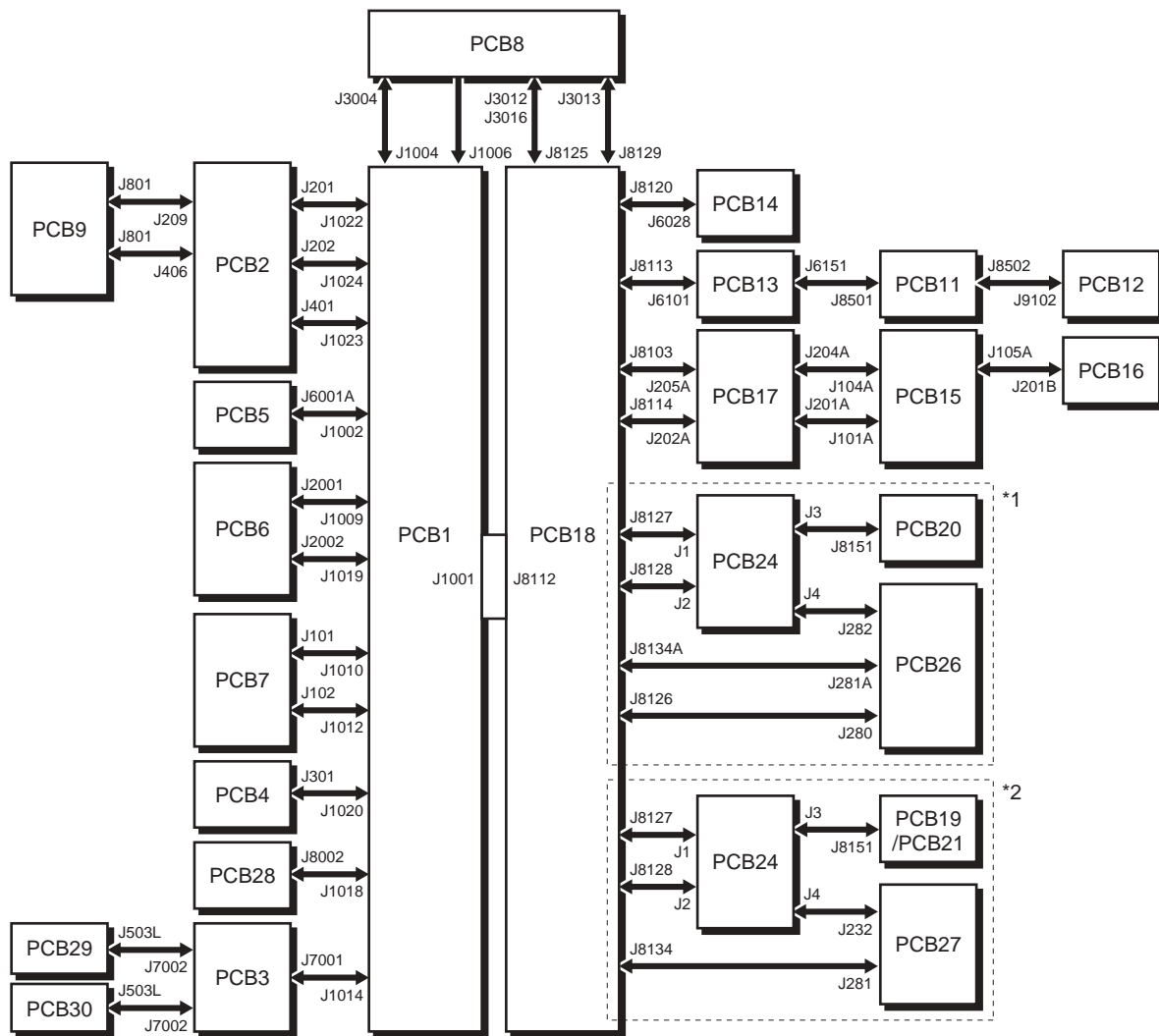
This machine's functions are divided into 8 blocks.



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7.1.2 Connecting the Main PCBs

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



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PCB1:	DC controller PCB	PCB2:	Driver PCB
PCB3:	Pickup relay PCB	PCB4:	Memory controller PCB
PCB5:	Fixing relay PCB	PCB6:	High-voltage power PCB
PCB7:	Laser driver PCB	PCB8:	Low-voltage power PCB
PCB9:	Reverse driver PCB	PCB11:	CCD PCB
PCB12:	Inverter PCB	PCB13:	CCD relay PCB
PCB14:	ADF relay PCB	PCB15:	Control panel main PCB
PCB16:	Control panel jog PCB	PCB17:	Control panel relay PCB
PCB18:	Main controller PCB	PCB19:	Modular PCB
PCB20:	Modular PCB	PCB21:	Modular PCB
PCB24:	NCU PCB	PCB26:	Pseudo CI PCB
PCB27:	Off hook PCB	PCB28:	Environment sensor
PCB29:	Color displacement/density sensor (right)	PCB30:	Color displacement/density sensor (left)

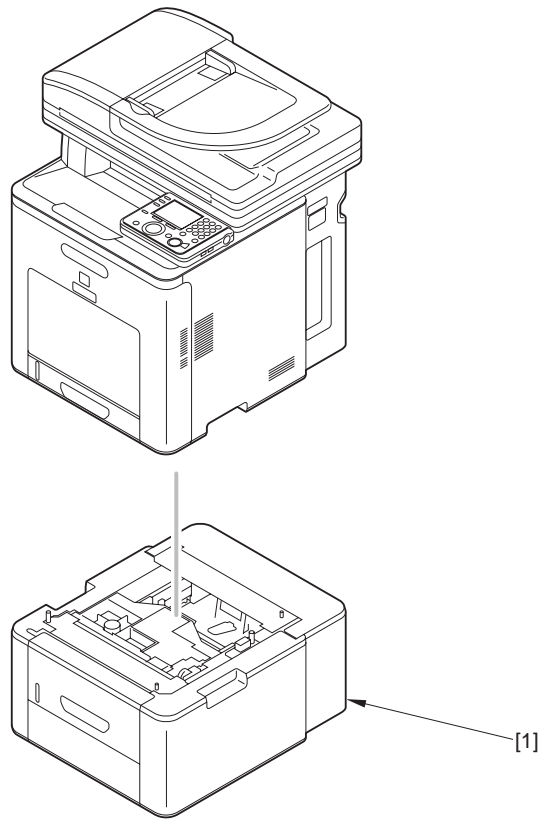
*1 For Japan

*2 For outside Japan (PCB19: 120 V, PCB21: 230 V)

7.2 System Construction

7.2.1 System Configuration of Pickup/Delivery Options

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



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[1] Cassette Feeding Unit-AB1/ AC1 *

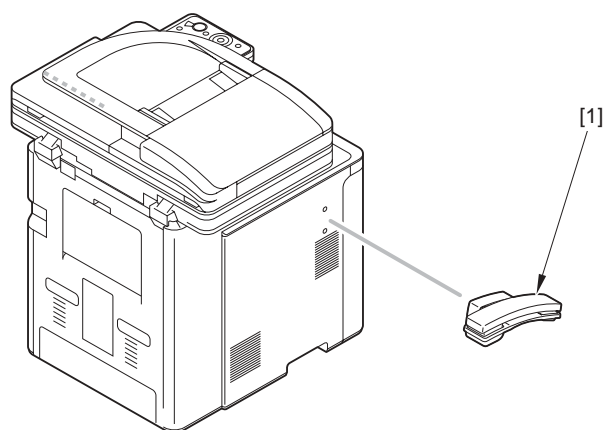
*: The following are the host machines that correspond to Cassette Feeding Unit-AB1/AC1.
North America: US, Canada, Latin America
Asia: Singapore, Hong Kong, China, Korea

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	Japan	North America	Europe	Australia	Asia
Cassette Feeding Unit-AB1				MF9170c MF8450C	MF8450C
Cassette Feeding Unit-AC1	MF8450	MF9170c MF9150c MF8450c	MF9170 MF9130 MF8450		

7.2.2 System Configuration of Print/Send Options

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450



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[1] HANDSET-J1 *

* For MF9170 (Europe) / MF8450 (Europe) / MF8450C (Singapore) only



Super G3FAX Board AB1 is required to attach Handset J1. (There is a model including Super G3FAX Board AB1 as standard equipment.)

7.3 Product Specifications

7.3.1 Main Body Specifications

i-SENSYS MF9170 / i-SENSYS MF9130

Copyboard	Fixed copyboard
Body	Desktop
Light source type	Cold-cathode tube
Lens type	Fixed focal length lens
Photosensitive medium	OPC drum (24 mm dia)
Image reading method	CCD
Exposure method	2-polygon 4-laser (2-beam/laser)
Charging method	Roller charging
Development method	Contact development
Attraction method	Roller attraction
Transfer method	Direct transfer (ETB: Electrostatic Transportation Belt)
Separation method	Curvature separation
Cassette pickup method	Duplo (Center line)
Multifeeder pickup method	Duplo (Center line)
Drum cleaning method	Cleaning blade
Transfer cleaning method	Electrostatic cleaning
Fixing method	On-demand fixing
Delivery method	Face down
Toner level detection function	Provided
Toner type	Nonmagnetic 1-component toner
Toner supply type	All-in-one cartridge
Toner save mode	Provided
Original type	Sheet, book, 3-D object (Up to 2kg)
Maximum original size	A4/ LTR/ LGL
Original size detection function	Not provided
Reproduction ratio	50% to 200% (incremented by 1%), 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200%
Warm-up time	Less than approx. 60 sec (Temperature: 20 degC, Humidity: 65%, from when the machine is turned on to when the standby screen is displayed)

Print area	At printing Paper other than envelope: Inside of the circumference of 5 mm Envelope: Inside of the circumference of 10 mm At copying Inside of the lead edge of 5 mm, both sides of 3 mm, and trailing edge of 5 mm At the time of printing a received message Inside of the lead edge of 5 mm, both sides of 3 mm, and trailing edge of 6 mm
Maximum non-image width (main scanning direction)	Less than +/- 0.5% (At stream reading: Not specified)
Maximum non-image width (sub scanning direction)	Less than +/- 0.5% (At stream reading: Less than +/- 1.0%)
Image margin (leading edge)	0 +/- 1.5 mm
Image margin (left/right)	Left edge: 0 +/- 1.5 mm (The right side is not detected.)
Non-image width (leading edge)	Less than 5.0 +/- 2.0 mm (When ADF is used (incl. stream reading): Less than 5.0 +/- 2.0 mm)
Non-image width (left/right)	Left edge: Less than 3.0 +/- 2.0 mm (When ADF is used (incl. stream reading): Less than 3.0 +/- 2.0 mm)
Gradation	256 gradation
Reading resolution	600 x 600 dpi
Reading speed	Fixed reading: Not specified Stream reading: Single-sided: 20.8ipm/LTR (600dpi), 19.7ipm/A4 (600dpi) Double-sided: Approx. 7ipm
Copying resolution	600 x 600dpi (ADF, copyboard)
Printing resolution	600 x 600 dpi
First copy time	(See "Print Speed") Fixed reading: Less than 12.5 sec (A4/LTR) Stream reading: Less than 18.5 sec (A4/LTR)
First print time	Less than 12.5 sec
Print speed	(See "Print Speed")
Print speed (A4)	21 cpm
Print speed(LTR)	22 cpm
Paper type	(See "Paper Type")
Cassette paper size	A4, B5, A5
Multifeeder paper size	A4, B5, A5, User-defined size
Cassette paper type	Plain paper, Recycled paper, Colored paper, Thick paper, Rough paper
Multifeeder tray paper type	Plain paper, Recycled paper, Colored paper, Thick paper, Transparency, Label, Rough paper, Postcard, Double postal card, Envelope
Cassette capacity	Paper cassette: 250 sheets Cassette Feeding Unit-AB1/ AC1 (optional): 500 sheets (80g/m2)
Multifeeder tray capacity	100 sheets
Auto 2-sided printing	Provided
Duplex method	Automatic double-sided printing
Delivery tray stack	250 sheets (64 to 80g/m2)
Continuous reproduction	1 to 99 sheets
Memory	Main Unit RAM: 384MB/512MB
Hard disk	No (without options)
Sleep mode	Provided
Operating environment (temperature range)	10 to 30 degC
Operating environment (humidity range)	Humidity equivalent to 10 to 80%
Noise	At standby: - Less than 43dB (Sound power level) At copying: - B&W: 66.35dB - Color: 67.3dB
Power supply rating	Rated input voltage: 100 to 127V (100V model)/220 to 240V (200V model) Rated input frequency: 50/60Hz
Power consumption (maximum)	Less than 929W (Main unit only) Less than 949W (When Cassette Unit AB1/AC1 (optional) is installed)
Power consumption	At standby: Less than 28W At sleep mode: Less than 1W (100V model), Less than 1.2W (200V model)
Ozone	At initial use: Less than 0.01ppm, After service life: Less than 0.035ppm B&W: 1.5mg/hr Color: 3.0mg/hr

Dimensions	Dimension: 546 mm x 527 mm x 627 mm (Main unit only) 546 mm x 527 mm x 930 mm (When Cassette Feeding Unit-AB1/ AC1 (optional) is installed) Installation space (Back cover and feeder released, Cassette pulled out): 546 mm x 1140 mm x 792 mm 546 mm x 1140 mm x 1095 mm (When Cassette Feeding Unit-AB1/ AC1 (optional) is installed)
Weight	Approx. 44kg (incl. toner cartridge)
Option	See "System Configuration".

7.3.2 Main Body Specifications

i-SENSYS MF8450

Copyboard	Fixed copyboard
Body	Desktop
Light source type	Cold-cathode tube
Lens type	Fixed focal length lens
Photosensitive medium	OPC drum (24 mm dia)
Image reading method	CCD
Exposure method	2-polygon 4-laser (2-beam/laser)
Charging method	Roller charging
Development method	Contact development
Attraction method	Roller attraction
Transfer method	Direct transfer (ETB: Electrostatic Transportation Belt)
Separation method	Curvature separation
Cassette pickup method	Duplo (Center line)
Multifeeder pickup method	Duplo (Center line)
Drum cleaning method	Cleaning blade
Transfer cleaning method	Electrostatic cleaning
Fixing method	On-demand fixing
Delivery method	Face down
Toner level detection function	Provided
Toner type	Nonmagnetic 1-component toner
Toner supply type	All-in-one cartridge
Toner save mode	Provided
Original type	Sheet, book, 3-D object (Up to 2kg)
Maximum original size	A4/ LTR/ LGL
Original size detection function	Not provided
Reproduction ratio	50% to 200% (incremented by 1%), 50%, 70%, 81%, 86%, 100%, 115%, 122%, 141%, 200%
Warm-up time	Less than approx. 60 sec (Temperature: 20 degC, Humidity: 65%, from when the machine is turned on to when the standby screen is displayed)
Print area	At printing Paper other than envelope: Inside of the circumference of 5 mm Envelope: Inside of the circumference of 10 mm At copying Inside of the lead edge of 5 mm, both sides of 3 mm, and trailing edge of 5 mm At the time of printing a received message Inside of the lead edge of 5 mm, both sides of 3 mm, and trailing edge of 6 mm
Maximum non-image width (main scanning direction)	Less than +/- 0.5% (At stream reading: Not specified)
Maximum non-image width (sub scanning direction)	Less than +/- 0.5% (At stream reading: Less than +/- 1.0%)
Image margin (leading edge)	0 +/- 1.5 mm
Image margin (left/right)	Left edge: 0 +/- 1.5 mm (The right side is not detected.)
Non-image width (leading edge)	Less than 5.0 +/- 2.0 mm (When ADF is used (incl. stream reading): Less than 5.0 +/- 2.0 mm)
Non-image width (left/right)	Left edge: Less than 3.0 +/- 2.0 mm (When ADF is used (incl. stream reading): Less than 3.0 +/- 2.0 mm)
Gradation	256 gradation
Reading resolution	600 x 600 dpi
Reading speed	Fixed reading: Not specified Stream reading: Single-sided: 20.8ipm/LTR (600dpi), 19.7ipm/A4 (600dpi) Double-sided: Approx. 7ipm
Copying resolution	600 x 600dpi (ADF, copyboard)
Printing resolution	600 x 600 dpi

First copy time	(See "Print Speed") Fixed reading: Less than 15.7 sec (A4/LTR) Stream reading: Less than 21.7 sec (A4/LTR)
First print time	Less than 15.7 sec
Print speed	(See "Print Speed")
Print speed (A4)	16.8 cpm
Print speed(LTR)	17.6 cpm
Paper type	(See "Paper Type")
Cassette paper size	A4, B5, A5
Multifeeder paper size	A4, B5, A5, User-defined size
Cassette paper type	Plain paper, Recycled paper, Colored paper, Thick paper, Rough paper
Multifeeder tray paper type	Plain paper, Recycled paper, Colored paper, Thick paper, Transparency, Label, Rough paper, Postcard, Double postal card, Envelope
Cassette capacity	Paper cassette: 250 sheets Cassette Feeding Unit-AB1/ AC1 (optional): 500 sheets (80g/m2)
Multifeeder tray capacity	100 sheets
Auto 2-sided printing	Provided
Duplex method	Automatic double-sided printing
Delivery tray stack	250 sheets (64 to 80g/m2)
Continuous reproduction	1 to 99 sheets
Memory	Main Unit RAM: 384 MB
Hard disk	No (without options)
Sleep mode	Provided
Operating environment (temperature range)	10 to 30 degC
Operating environment (humidity range)	Humidity equivalent to 10 to 80%
Noise	At standby: - Less than 43dB (Sound power level) At copying: - B&W: 64.95 dB - Color: 66.1 dB
Power supply rating	Rated input voltage: 100 to 127V (100V model)/220 to 240V (200V model) Rated input frequency: 50/60Hz
Power consumption (maximum)	Less than 929W (Main unit only) Less than 949W (When Cassette Unit AB1/AC1 (optional) is installed)
Power consumption	At standby: Less than 28W At sleep mode: Less than 1W (100V model), Less than 1.2W (200V model)
Ozone	At initial use: Less than 0.01ppm, After service life: Less than 0.035ppm B&W: 1.5mg/hr Color: 3.0mg/hr
Dimensions	Dimension: 546 mm x 527 mm x 627 mm (Main unit only) 546 mm x 527 mm x 930 mm (When Cassette Feeding Unit-AB1/ AC1 (optional) is installed) Installation space (Back cover and feeder released, Cassette pulled out): 546 mm x 1140 mm x 792 mm 546 mm x 1140 mm x 1095 mm (When Cassette Feeding Unit-AB1/ AC1 (optional) is installed)
Weight	Approx. 44kg (incl. toner cartridge)
Option	See "System Configuration".

7.3.3 ADF Specifications

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

Paper size	AB type: A4R, B5R, A5R, A5, B6 (B6: Horizontal feeding only) Inch type: LGL, LTRR, STMTR, STMT (Length: 128 mm to 355.6 mm, Width: 139.7 mm to 215.9 mm)
Duplex paper size	A4R/B5R/A5R/A5/B6/LTRR/LGL/STMTR (B6: Horizontal feeding only)
Original type	Sheet document
Original orientation	Face-up
Original position	Center line
Original processing mode	Single-sided/Double-sided
Original reading	Stream reading
Stack	[J/J] A4/LTR: 50 sheets, LGL: 30 sheets [LL/HH] A4/LTR: 30 sheets, LGL: 15 sheets
Mixed original sizes	Enabled

Original AE detection	Provided
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7.3.4 FAX Specifications

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

Applicable lines	Public Switched Telephone Network (PSTN) * PSTN currently supports the modem speed of up to 28.8Kbps. It, however, differs depending on the telephone line condition. Number of lines connected: 1
Transmission method	G3
Modulation method	Image modulation: V.34/V.17/V.29/V.27ter Transmission procedure: V.21
Transmission speed	Transmission speed: Approx. 3 sec per page ECM-JBIG, Transmitted from memory at 33.6Kbps * Based on the JBIG standard mode with ITU-T standard chart No. 1 Modem speed: 33,600bps, Automatic fallback
Coding	Compression method: JBIG, MMR, MR, MH
Error correction	ECM
Scanning line density	Reading: 8x 3.85/7.7/15.4 16x15.4 Recording: 600 x 600dpi
Scanning density adjustment	9 levels, manual adjustment
Half tone	256 gradation
Printing resolution	Resolution conversion: Provided <200 x 100dpi>: 8 pixels/mm x 3.85 lines/mm <200 x 200dpi>: 8 pixels/mm x 7.7 lines/mm <200 x 400dpi>: 8 pixels/mm x 15.4 lines/mm <400 x 400dpi>: 16 pixels/mm x 15.4 lines/mm
Reduction for reception	Automatic reduction of an image received: 75 to 100% (incremented by 1%)
FAX/TEL switching	Provided
Remote reception	Provided
Memory reception	Send/Receive memory: More than 1000 pages (Total number of sent/received pages) *Based on the JBIG standard mode with ITU-T standard chart No. 1 Memory reception: Provided
Redial	Automatic redialing: Provided
Memory backup	Number of memories which can be accumulated: 1236 sheets Memory backup time: 1 hour
Time	Within 60 sec per month (Zone A) Within 90 sec per month (Zone B)
Others	Dialing method - Address book (300 destinations) Group dialing (299 destinations) (incl. One-touch button (200 destinations)) - Regular dialing (by numeric keys) - Automatic redialing, manual redialing (specified from the calling record) - Broadcast transmission (301 destinations) Output of reports - Communication management report (Automatically printed for every 40 calls) - Transmission result report / Reception result report Reception method - Automatic reception - Remote reception by a telephone set (Initial setting ID: 25)

7.4 Function List

7.4.1 Print Speed

i-SENSYS MF9170 / i-SENSYS MF9130

First copy time

The following standard is defined with "35 seconds" after printing 90 sheets of A4-size plain paper in the mode of "1 vs. multiple copies" *1 at copyboard reading.
(Unit: second)

T-7-2

Size		Mode/Pickup position	
		Single-sided printing	
		Cassette/Optional cassette	Manual feed tray
Plain paper	A4R	12.5	12.5
	LGL	16.3	16.3
	LTRR	12.5	12.5
Thick paper	A4R	-	15.7
	LGL	-	-
	LTRR	-	15.7

Print speed

(Unit: #Sheets/minute)

T-7-3

Size		Mode/Pickup position							
		1 vs. multiple copies *1 (Fixed reading)				1 vs. 1 copy *1 (Stream reading)			
		Single-sided		Double-sided		Single-sided		Double-sided	
		Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray
Plain paper	A4R	20.9	20.9	10	10	19.7	19.7	7	7
	LGL	17.9	17.9	5	5	17.9	17.9	5	5
	LTRR	22.0	22.0	11	11	20.8	20.8	7	7
Thick paper	A4R	16.8	16.8	8.4	8.4	16.8	16.8	7	7
	LGL	14.3	14.3	4	4	14.3	14.3	4	4
	LTRR	17.6	17.6	8.8	8.8	17.6	17.6	7	7
Transparency *2		-	3.6 to 1.8	-	-	-	3.6 to 1.8	-	-
Postcard *2		-	10.1 to 2.5	-	-	-	10.1 to 2.5	-	-
Envelopes		-	3.2	-	-	-	3.2	-	-

*1: 1 vs. multiple copies: For example, make 10 copies of one sheet of document.
1 vs. 1 copy: For example, make one copy of one sheet of document.

*2: At the continuous print, printing speed may decelerate depending on the conditions.



The print speed indicated above may vary depending on the product environment, paper type, and paper size, etc.

7.4.2 Print Speed

i-SENSYS MF8450

First copy time

The following standard is defined with "25 seconds" after printing 75 sheets of A4-size plain paper in the mode of "1 vs. multiple copies" *1 at copyboard reading.
(Unit: second)

T-7-4

Size		Mode/Pickup position	
		Single-sided printing	
		Cassette/Optional cassette	Manual feed tray
Plain paper	A4R	15.7	15.7
	LGL	20.3	20.3
	LTRR	15.7	15.7
Thick paper	A4R	-	15.7
	LGL	-	-
	LTRR	-	15.7

Print speed

(Unit: #Sheets/minute)

T-7-5

Size		Mode/Pickup position							
		1 vs. multiple copies *1 (Fixed reading)				1 vs. 1 copy *1 (Stream reading)			
		Single-sided		Double-sided		Single-sided		Double-sided	
		Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray	Cassette/ Optional cassette	Manual feed tray
Plain paper / Thick paper	A4R	16.8	16.8	8.4	8.4	16.8	16.8	7	7
	LGL	14.3	14.3	4	4	14.3	14.3	4	4
	LTRR	17.6	17.6	8.4	8.4	17.6	17.6	7	7
Transparency *2		-	3.6 to 1.8	-	-	-	3.6 to 1.8	-	-
Postcard *2		-	10.1 to 2.5	-	-	-	10.1 to 2.5	-	-
Envelopes		-	3.2	-	-	-	3.2	-	-

*1: 1 vs. multiple copies: For example, make 10 copies of one sheet of document.
1 vs. 1 copy: For example, make one copy of one sheet of document.

*2: At the continuous print, printing speed may decelerate depending on the conditions.



The print speed indicated above may vary depending on the product environment, paper type, and paper size, etc.

7.4.3 Paper Type

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

Paper Type

Supported paper types are shown below:

A: available

—: not available

T-7-6

Type	Weight	Cassette/ Optional cassette	Manual feed tray
Plain	From 19 to 24 lb (70 to 90 g/m2)	A	A
Plain H	From 20 to 28 lb (75 to 105 g/m2)	A	A
Color	From 19 to 24 lb (70 to 90 g/m2)	A	A
Recycled	From 19 to 24 lb (70 to 90 g/m2)	A	A
Heavy 1	From 28 to 32 lb (106 to 120 g/m2)	A	A
Heavy 2	From 32 to 47 lb (121 to 176 g/m2)	-	A
Bond	20 lb (75 g/m2)	A	A
Transparency *	-	-	A
Labels	-	-	A
Envelopes	-	-	A
Rough	-	A	A

*: Use only LTR transparencies made especially for this machine.

Paper Size

Supported paper sizes are shown below.

T-7-7

	Cassette/Optional cassette	Manual feed tray
Size (W x L)	Legal, Letter, Officio, M-Officio, B-Officio, Executive, Foolscap, A4, B5, A5	3" x 5" to Legal (8 1/2" x 14") (76.2 x 127 to 215.9 mm x 355.6 mm) (Always set vertically.)

MEMO:

The default paper size is LTR. If you use a different paper size, you must change the paper size settings.

Chapter 8 Upgrading

8.1 Upgrading

8.1.1 Overview of Upgrade

i-SENSYS MF9170 / i-SENSYS MF9130 / i-SENSYS MF8450

To upgrade this machine, download the firmware from PC to the machine with using the user support tool (hereinafter called UST).
[A0ECEaEXEgAi031-MNT-UPGD-0001AjcIe`iUÄ0](#)

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