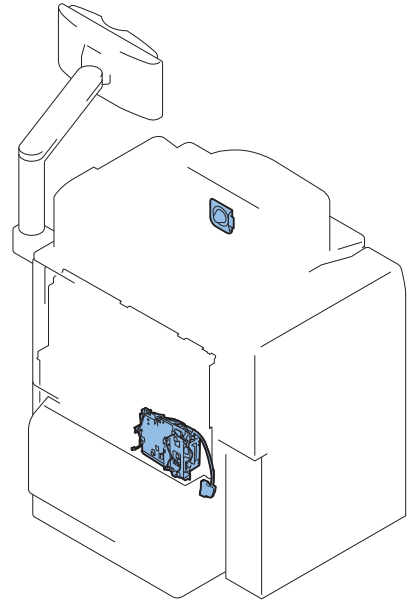
Canon

April 23, 2013
Revision 0

Super G3 FAX Board-AD2

Service Manual



Product Outline
Technology
Parts Replacing and Cleaning
Error Code
Service Mode
Installation

1 2 3 4 5 6

Application

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

Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

The following paragraph does not apply to any countries where such provisions are inconsistent with local law.

Trademarks

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Copyright

Caution

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

Explanation of Symbols

The following symbols are used throughout this Service Manual.

Symbols	Explanation
	Check.
	Check visually.
	Check the noise.
	Disconnect the connector.
	Connect the connector.
	Remove the cable/wire from the cable guide or wire saddle.
	Set the cable/wire to the cable guide or wire saddle.
	Remove the screw.
	Tighten the screw.

Symbols	Explanation
	Remove the claw.
	Insert the claw.
	Use the bundled part.
	Push the part.
	Plug the power cable.
	Turn on the power.

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.

Contents

Product Outline

Specifications

Specifications

Following is a specification list.

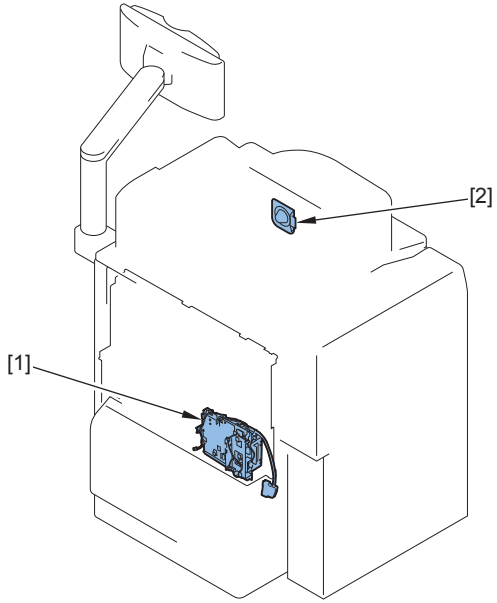
Item	Description
Communication	G3
Line type	Subscriber line (PSTN)
Modulation	<G3 image signal> ITU-T V.27ter (2.4 Kbps, 4.8 Kbps) ITU-T V.29 (7.2 Kbps, 9.6 Kbps) ITU-T V.17 (TC 7.2 Kbps, TC 9.6 Kbps, 12 Kbps, 14.4 Kbps) ITU-T V.34 (2.4 Kbps, 4.8 Kbps, 7.2 Kbps, 9.6 Kbps, 12 Kbps, 14.4 Kbps, 16.8 Kbps, 19.2 Kbps, 21.6 Kbps, 24 Kbps, 26.4 Kbps, 28.8 Kbps, 31.2 Kbps, 33.6 Kbps) <G3 procedure signal> ITU-T V.21 No.2 (300 bps) ITU-T V.8, V.34 (300 bps)
Transmission speed	33.6 Kbps, 31.2 Kbps, 28.8 Kbps, 23.4 Kbps, 24 Kbps, 21.6 Kbps, 19.2 Kbps, 16.8 Kbps, 14.4 Kbps, 12 Kbps, TC 9.6 Kbps, TC 7.2 Kbps, 9.6 Kbps, 7.2 Kbps, 4.8 Kbps, 2.4 Kbps auto fallback function
Coding method	JBIG, MMR, MR, MH
G3-specific abridged procedure	no
Modem IC	conexant DFX336
Error correction	ITU-T ECM
Transmission original size	A4-R, A5-R, B5-R, LGL, LTR-R, STMT-R, EXEC-R, 16K ADF: double-sided originals accepted
Scanning line density	Standard (200 x 100 dpi): 8 dots/mm x 3.85 lines/mm Fine (200 x 200 dpi):8 dots/mm x 7.7 lines/mm Super Fine (200 x 400 dpi): 8 dots/mm x 15.4 lines/mm Ultra Fine (400 x 400 dpi): 16 dots/mm x 15.4 lines/mm
Halftone	256 gradations
Recording unit	maximum reception size: A4 (297 mm x 210 mm) scanning line density: 600 dpi x 600 dpi
Memory	image memory (Canon Fax Standard Chart No.1): 1000 prints storage: JBIG
Extension telephone connection	no
Answering machine connection	no
Fax/Tel switch-over	no
Quick Direct Transmission	no
Transmission Header (Add Remote Name on Header SW)	yes
Remote reception	no
Polling (F code)	no
Memory box	yes
Password reception	no
Machine telephone No. transmission	yes
User abbreviation transmission	no
Dual access	64 (maximum number of reservations)
Broadcasting	Maximum number of targets: Address book: 500 New targets: 32 Maximum number of targets by 10 key dialing: 32

T-1-1

Basic Construction

Overview

This product is a FAX unit for adding FAX lines to the machine.
This machine is equipped with a telephone-based communication function and an image processing function to enable a digital copier to serve as a highly functional multi-function fax machine.
As for image transmission speed, it is capable of communicating at 33.6 kbps (max.) thanks to a modem for V.34, which comply with ITU-T standard.



F-1-1

[1] Super G3 FAX Board-AD2
[2] Speaker unit

Technology

- Basic Construction
- Controls

Basic Construction

Overview

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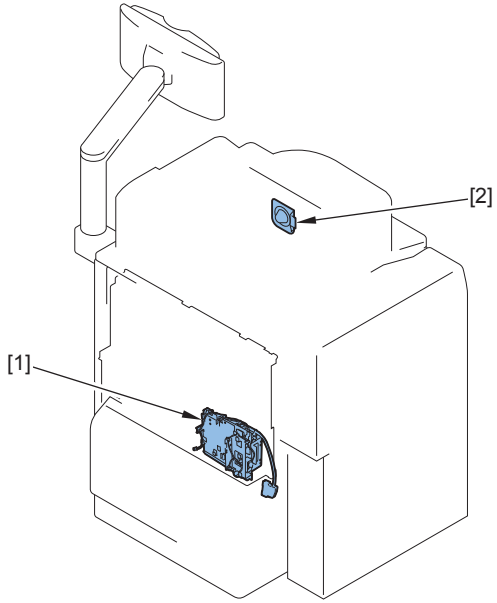


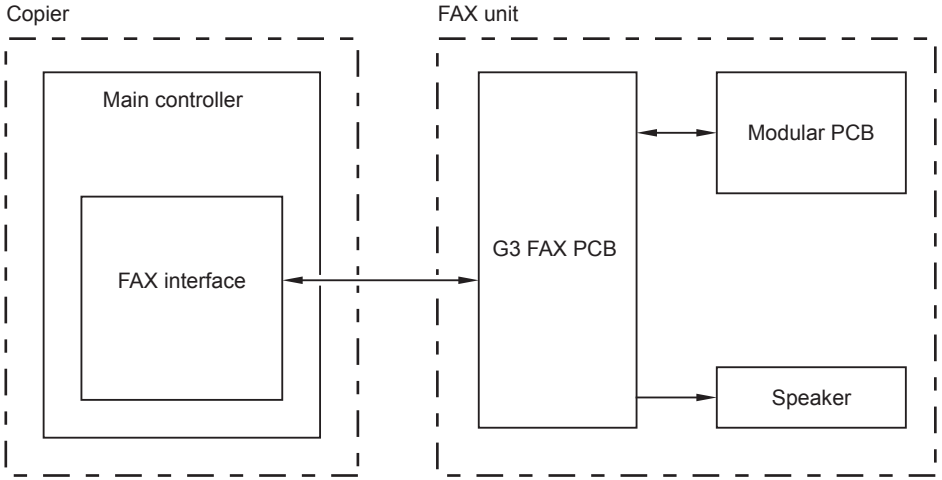
F-2-1

[1] Super G3 FAX Board-AD2
[2] Speaker unit

Controls

FAX communication control

The main controller in the machine executes FAX communication control.
The FAX control program is loaded on the main controller and controls the G3 FAX PCB in the FAX unit.



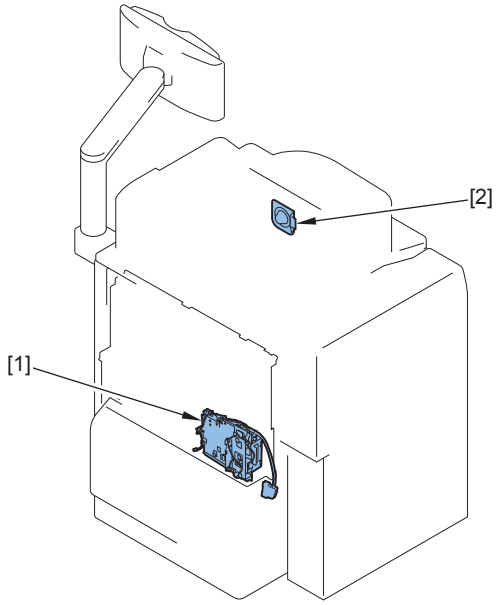
F-2-2

3 Parts Replacing and Cleaning

- Parts List
- Parts Replacing

Parts List

PCBs



F-3-1

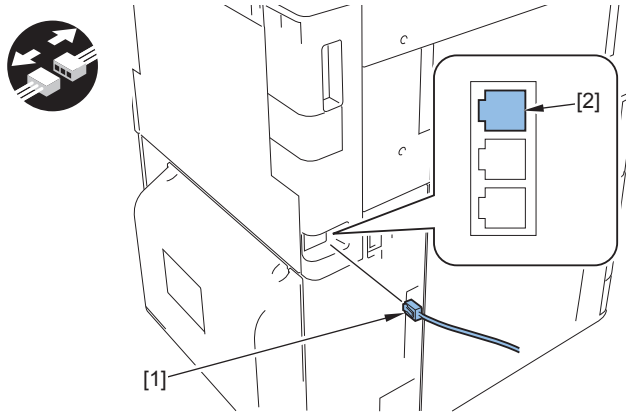
No.	Name	Reference	Adjastment during parts replacement
[1]	Super G3 FAX Board-AD2	(Refer to page 3-3)	
[2]	Speaker unit	(Refer to page 3-6)	

Parts Replacing

Removing the Fax Unit

Procedure

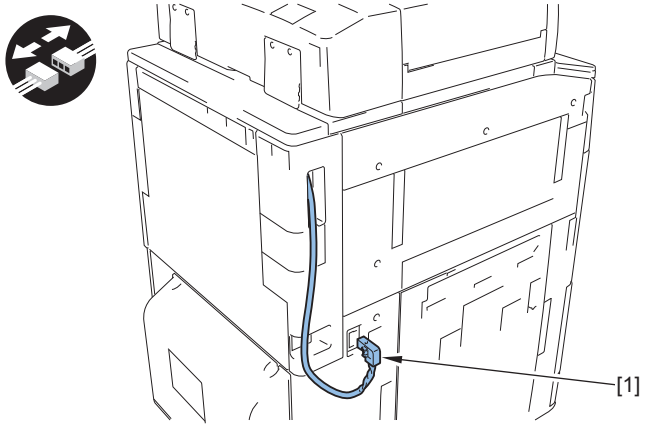
1) Disconnect one end of the Telephone Cord [1] from the modular jack (LINE 1) [2] on the host machine.



F-3-2

NOTE:
Disconnect and then connect the Reader Power Supply Cable only in the case of iR-ADV C9075 PRO/C9070 PRO/C9065 PRO/C9060 PRO series and iR-ADV C7065/C7055 series.

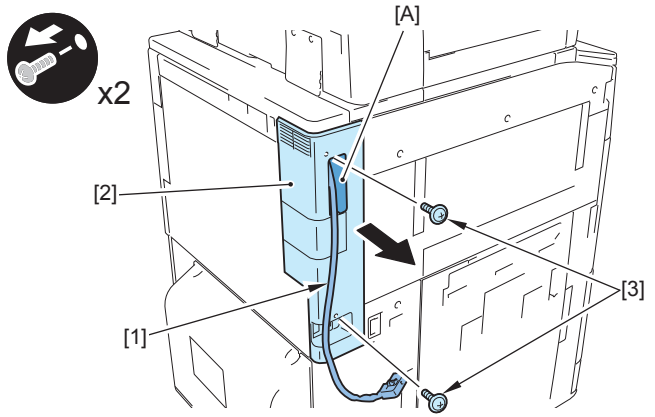
2) Disconnect the Reader Power Supply Cable [1].



F-3-3

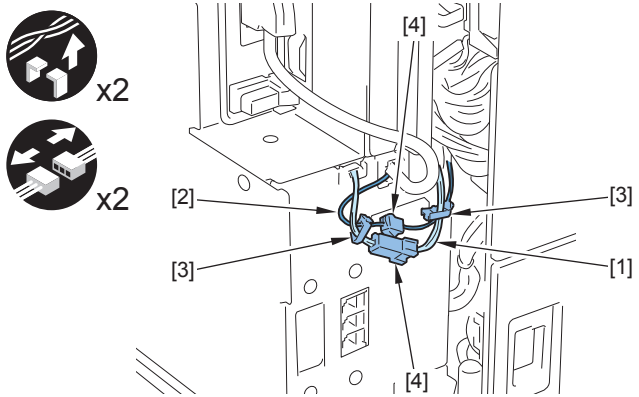
3) Put the Reader Power Supply Cable [1] through the hole [A] in the Box Left Cover [2], and then remove the cover.

- 2 Screws [3]



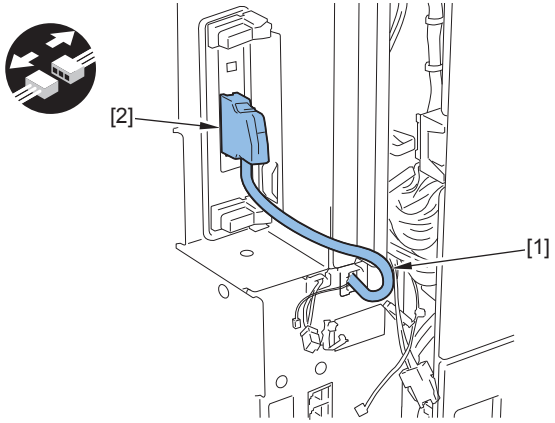
F-3-4

4) Disconnect the Arrestor Cable [1] and the Speaker Cable [2].
- 2 Wire Saddles [3]
- 2 Connectors [4]



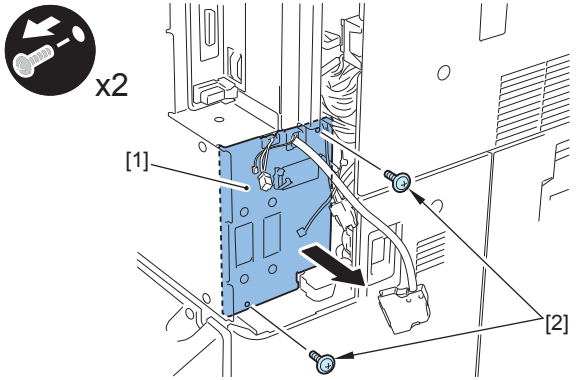
F-3-5

5) Disconnect the cable [1] of the Fax Unit.
- 1 Connector [2]



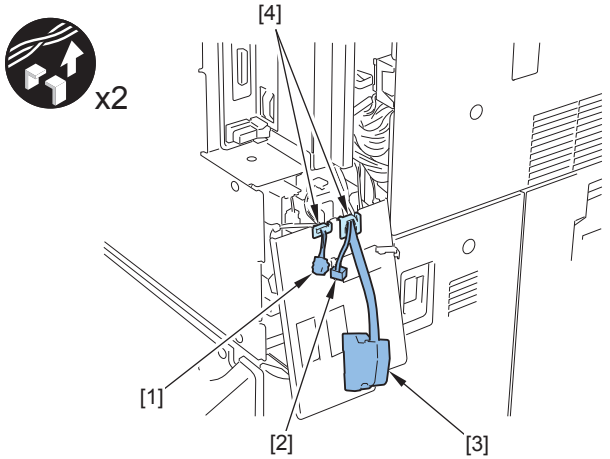
F-3-6

6) Remove the Cover Support Plate [1].
- 2 Screws [2]



F-3-7

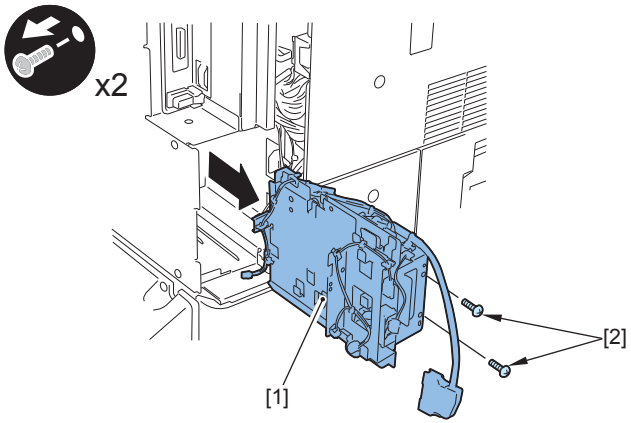
7) Free the Arrestor Cable [1], Speaker Cable [2] and Fax Unit Cable [3] from the 2 Edge Saddles [4] on the Cover Support Plate.



F-3-8

8) Remove the Fax Unit [1].

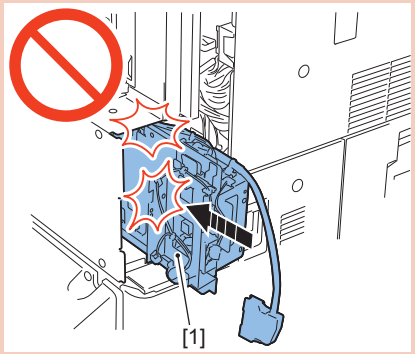
- 2 Screws [2]



F-3-9

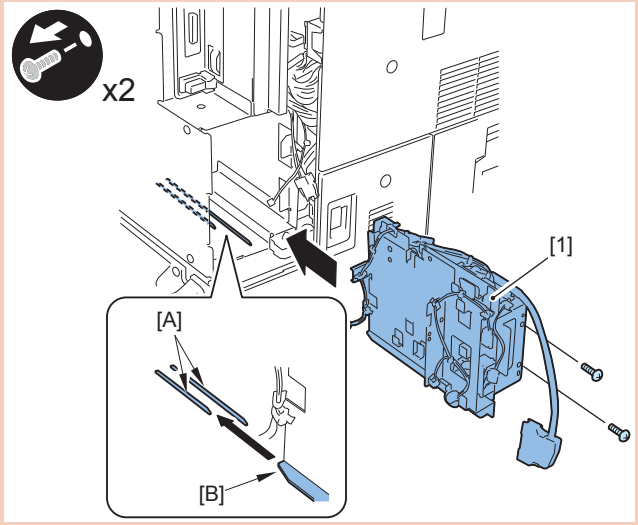
CAUTION:

- Install the Fax Unit [1] while paying attention not to trap the cables of the unit.



F-3-10

- Install the Fax Unit [1] by fitting the protrusion [B] of the unit to the rail [A] of the host machine.

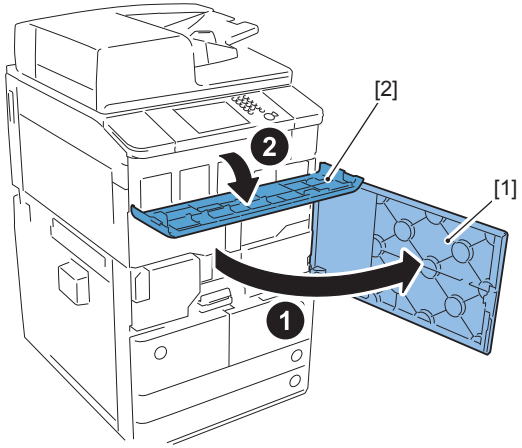


F-3-11

Removing the Speaker Unit

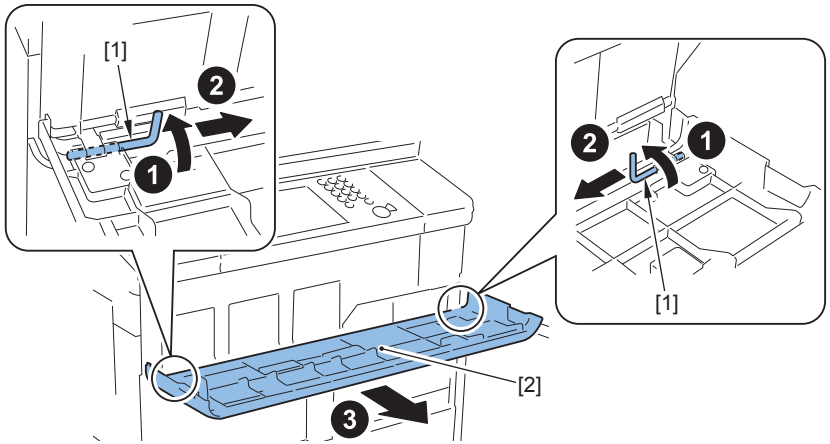
Procedure

1) Open the Front Cover [1] and the Front Upper Cover [2].



F-3-12

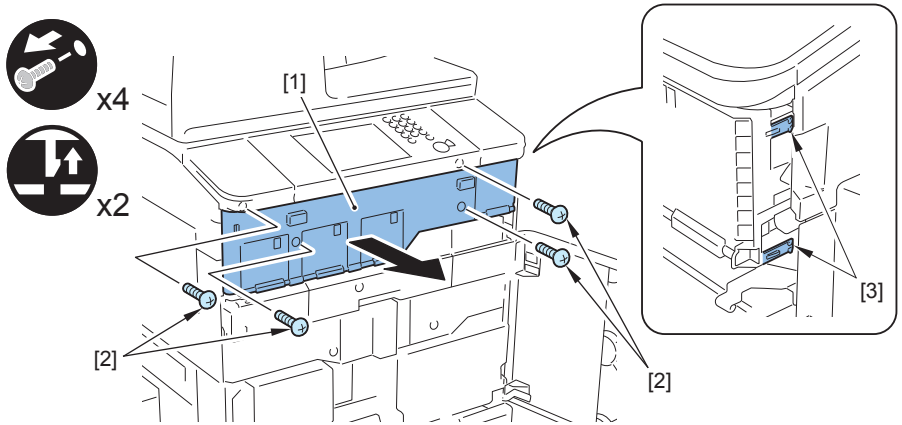
2) Remove the 2 Hinge Shafts [1] and the Front Upper Cover [2].



F-3-13

3) Remove the Toner Container Replacement Unit Inner Cover [1].

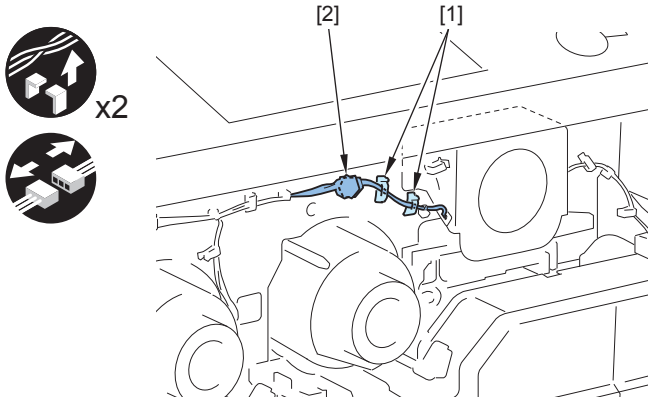
- 4 Screws [2]
- 2 Claws [3]



F-3-14

4) Disconnect the Speaker Cable [1].

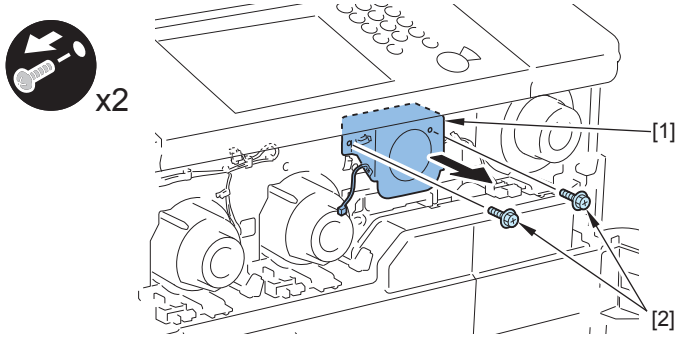
- 2 Wire Saddles [2]
- 1 Connector [3]



F-3-15

5) Remove the Speaker Unit [1].

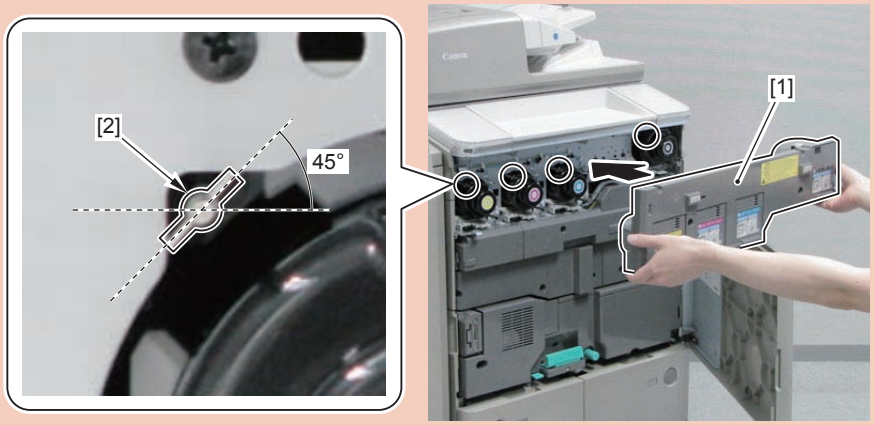
- 2 Screws [2]



F-3-16

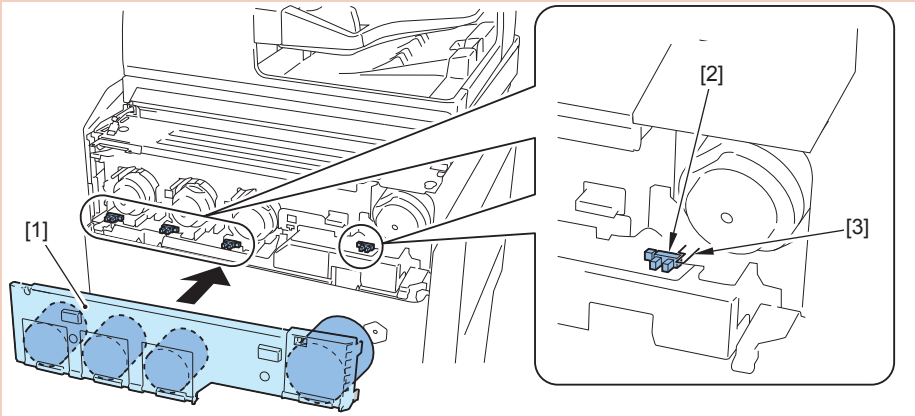
CAUTION:

- When installing the Toner Container Replacement Unit Inner Cover [1], be sure to install it while the 4 Parallel Pins [2] of the Inner Door Link Shaft are tilted at an angle of approx. 45 degrees.



F-3-17

- When installing the Toner Container Replacement Unit Inner Cover [1], be careful not to damage the 4 Toner Insertion Inlet Cover Open/Close Sensors [2] and the 4 groundings [3] on the upper side of the sensors.



F-3-18

4 Error Code

- Overview
- User Error Code
- Service Error Code

Overview

Guide to Error Code

When the Board has been installed and '1' is set for service data #1 SSSW SW01 bit 0, communications ending in error will be indicated in the following reports using service error codes: communications management report, reception result report, and error transmission report.
You can also check the code of an error by making the following selections: System Monitor > Fax > Detail.

The major error codes used by the Board are listed on the pages that follow. For information on causes and remedies in connection with other error codes, see the "G3/G4 Facsimile Error Code List" (HY8-23A0-020).
If the Board indicates a service error code, try the following:

- Increase the transmission level.
  Set -8 (dBm) for service data #2 MENU parameter No. 007.

- Decrease the transmission level.
  Set -15 (dBm) to service data #2 MENU parameter No. 007.

- Provide a remedy against echoes.
  Change the following bit setting for service data #1 SSSW SW03:

Bit7 -> 1: to cause the machine to send a total signal before sending the CED signal.
-> 0: to causes the machine not to send a tonal signal before sending the CED signal.

- EPT (echo protect tone)
  Change the setting of service data #1 SSSW SW03 bit 1:

Bit1 -> 1: to cause the machine to send EPT.
-> 0: to cause the machine not to send EPT.

- Adjust the NL equalizer.
  Set '1' for serve data #2 MENU parameter No. 005.

- Decrease the transmission start speed.
  Decrease the transmission start speed in user mode: System Settings > Communications Settings > Fax Settings > Send Start Speed.

- Make the TCF evaluation standards lenient.
  The Board does not offer a means by which to provide this remedy.

- Make the RTN transmissions conditions lenient.
  Change parameters No. 2 through No. 004 of service data #3 NUMERIC Param.
  No. 002: error rate for all lines; change it so that it is closer to 99%.
  No. 003: number of lines in connection with bursts; change it so that it is closer to 99 lines.
  No. 004: number of errors falling short of a specific number of lines in connection with bursts; change it so that it is closer to 99.

- Increase the length of silence after reception of CFR.
  Set '1' for service data #1 SSSW SW04 bit 4.

Bit4 -> 1: length of time during which a low-speed signal is ignored after transmission of CFR; 1500 msec
-> 0: length of time during which a low-speed signal is ignored after transmission of CFR; 700 msec

User Error Code

No.	T/R	Description
#001	[T]	an original has jammed.
#003	[T/R]	tine-out for copying or sending/receiving a single page has occurred.
#005	[T/R]	time-out for initial identification (T0/T1) has occurred.
#008	[R]	a mismatch of passwords at time of polling transmission has occurred.
#009	[R]	recording paper has jammed or is absent.
#012	[T]	recording paper is absent at the other party.
#018	[T/R]	auto call initiation has failed.
#022	[T]	call initiation has failed.
#037	[R]	image memory overflow at time of reception has occurred.
#080	[T]	the other party has no F code reception function/or is not set to receive it.
#081	[T]	the other party has no password reception function/or is not to receive it.
#099	[T/R]	the Stop key is pressed while a communication is under way.
#102	[T/R]	a mismatch of F-code/password has occurred.
#995	[T/R]	a memory communication reservation has been cancelled.

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Service Error Code

No.	T/R	Description
##100	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##101	[T/R]	the modem speed does not match that of the other party.
##102	[T]	at time of transmission, fall-back cannot be used.
##103	[R]	at time of reception, EOL cannot be detected for 5 sec (15 sec if CBT).
##104	[T]	at time of transmission, RTN or PIN is received.
##106	[R]	at time of reception, the procedural signal is received for 6 sec while in wait for the signal.
##107	[R]	at time of reception, the transmitting party cannot use fall-back.
##109	[T]	at time of transmission, a signal other than DIS, DTC, FTT, CFR, or CRP is received, and the procedural signal has been sent more than specified.
##111	[T/R]	memory error has occurred.
##114	[R]	at time of reception, RTN is transmitted.
##200	[R]	at time of reception, no image carrier is detected for 5 sec.
##201	[T/R]	DCN is received outside the normal parity procedure.
##204	[T]	DTC without transmission data is received.
##220	[T/R]	system error (main program out of control) has occurred.
##223	[T/R]	while a communication is under way, the line is cut.
##224	[T/R]	in G3 communication, an error has occurred in the procedural signal.
##226	[T/R]	the stack printer has fallen outside the RAM area.
##229	[R]	the recording unit has remained locked for 1 min.
##232	[T]	encoding error has occurred.
##237	[R]	decoding error has occurred.
##238	[R]	the print control unit is out of order.
##261	[T/R]	system error has occurred.
##280	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##281	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##282	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##283	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##284	[T]	at time of transmission, DCN is received after transmission of TCF.
##285	[T]	at time of transmission, DCN is received after transmission of EOP.
##286	[T]	at time of transmission, DCN is received after transmission of EOM.
##287	[T]	at time of transmission DCN is received after transmission of MPS.
##288	[T]	after transmission of EOP, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##289	[T]	after transmission of EOM, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##290	[T]	after transmission of MPS, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.

No.	T/R	Description
##670	[T]	at time of V.8 late start, the V.8 ability of DIS front the receiving party is expected to be detected, and the CI signal is expected to be transmitted in response; however, the procedure fails to advance, and the line is released because of T1 time-out.
##671	[R]	at time of V.8 arrival, procedure fails to move to phase 2 after detection of CM signal from caller, causing T1 time-out and releasing line.
##672	[T]	at time of V.34 transmission, a shift in procedure from phase 2 to phase 3 and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##673	[R]	at time of V.34 reception, a shift in procedure from phase 2 to phase 3 and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##674	[T]	at time of V.34 transmission, a shift in procedure from phase 3 and phase 4 to the control channel and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##675	[R]	at time of V.34 reception, a shift in procedure from phase 3 and phase 4 to the control channel and thereafter stops, causing the machine to release the line and suffer T1 timeout.
##750	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-NULL, causing the procedural signal to be transmitted more than specified.
##752	[T]	at time of ECM transmission, DCN is received after transmission of PPS-NULL.
##753	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-NULL, or T5 time-out (60 sec) has occurred.
##754	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-NULL.
##755	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-MPS, causing the procedural signal to be transmitted more than specified.
##757	[T]	at time of ECM transmission, DCN is received after retransmission of PPS-MPS.
##758	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS, or T5 time-out (60 sec) has occurred.
##759	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS.
##760	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-EOM, causing the procedural signal to be transmitted more than specified.
##762	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOM.
##763	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS, or T5 time-out (60 sec) has occurred.
##764	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOM.
##765	[T]	at time of ECM transmission, no meaningful signal is received after transmission of PPS-EOP, causing the procedural signal to be transmitted more than specified.
##767	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOP.
##768	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOP, or T5 time-out (60 sec) has occurred.
##769	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOP.
##770	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-NULL, causing the procedural signal to be transmitted more than specified.
##772	[T]	at time of ECM transmission, DCN is received after transmission of EOR-NULL.
##773	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-NULL, or T5 time-out (60 sec) has occurred.
##774	[T]	at time of ECM transmission, ERR is received after transmission of EOR-NULL.
##775	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-MPS, causing the procedural signal to be transmitted more than specified.
##777	[T]	at time of ECM transmission, DCN is received after transmission of EOR-MPS.
##778	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission EOR-MPS, or T5 time-out (60 sec) has occurred.
##779	[T]	at time of ECM transmission, ERR is received after transmission of EOR-MPS.
##780	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-EOM, causing the procedural signal to be transmitted more than specified.
##782	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOM.
##783	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-EOM, or T5 time-out (60 sec) has occurred.
##784	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOM.
##785	[T]	at time of ECM transmission, no meaningful signal is received after transmission of EOR-EOP, causing the procedural signal to be transmitted more than specified.
##787	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOP.
##788	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of EOR-EOP, or T5 time-out (60 sec) has occurred.
##789	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOP.
##790	[R]	at time of ECM reception, ERR is transmitted after transmission of EOR-Q.
##791	[T/R]	while ECM mode procedure is under way, a signal other than a meaningful signal is received.
##792	[R]	at time of ECM reception, PPS-NULL cannot be detected over partial page processing.
##793	[R]	at time of ECM reception, no effective frame is received while high-speed signal reception is under way, thus causing time-out.
##794	[T]	at time of ECM reception, PPR with all 0s is received.
##795	[T/R]	a fault has occurred in code processing for communication.
##796	[T/R]	a fault has occurred in decoding processing after reception of ECM

T-4-2

5 Service Mode

- Outline
- Details of Service Mode

Outline

Outline of Service Mode

The items that follow may be checked/set using the machine's service mode, which is designed the way the service mode used in fax machines is designed in terms of contents and operation.

#SSSW
Use it to register/set basic fax functions (e.g., error control, echo remedy, communication error correction). Use it to make settings related counter functions.

#MENU
Use it to register/set items related to functions needed at time of installation (e.g., NL equalizer, transmission level).

#NUMERIC
These setting items are for inputting numeric parameters such as the various conditions for the RTN signal transmission.

#SPECIAL
These setting items are for telephone network control functions. Do not use.

#NCU
These setting items are for telephone network control functions such as the selection signal transmission conditions and the detection conditions, for the control signals sent from the exchange.

#FAX
Do not use.

#SCAN
These setting items are for image adjustment in scanning.

#PRINT
These setting items are for image adjustment in printer assembly and for special mode for the field-related measures.

#NETWORK
Use it to confirm the contents of the installed CA certificates.

#CODEC
This is a setting items related to CODEC.

#SYSTEM
This is a setting items related to SYSTEM.

#ACC
Register the accessories.

#COUNTER
Use it to check estimates for maintenance/parts replacement.

#LMS
Use it to set the inactivity of the transmitted license and the license inactivity without transmitting.

#E-RDS
This is a setting items related to e-RDS (Embedded RDS).

#REPORT
Use it to generate reports on various service data.

#DOWNLOAD
Use it to download firmware to the ROM of a PCB in question.

#CLEAR
Use it to reset various data to initial settings.

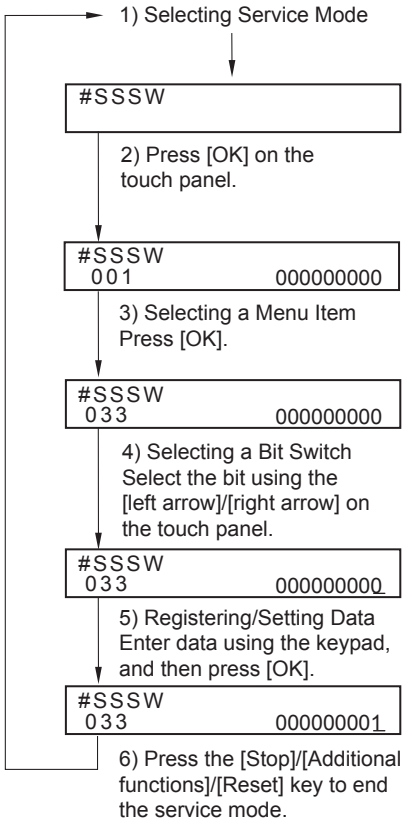
#DISPLAY
The error and detailed code which have happened now are displayed.
Display the engine speed of the main controller PCB.

#ROM
Displays ROM information, such as version numbers and checksums.

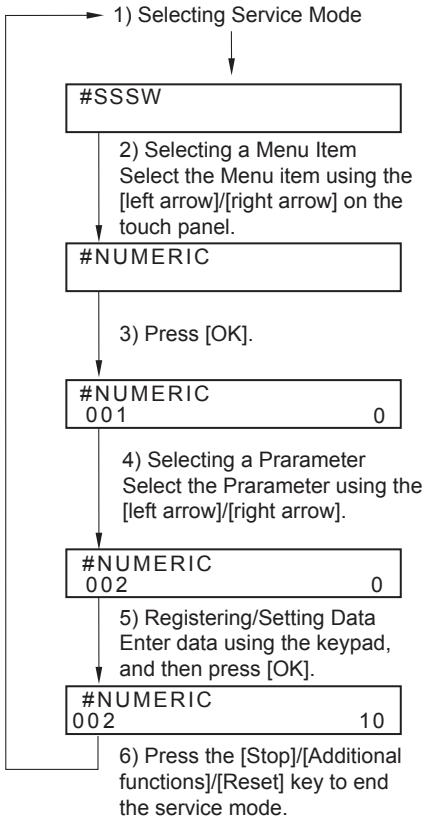
#TEST MODE
Makes various status checks, such as contact sensor, sensor and print status.

Using the Mode

<Operation at the time of Bit SW>



<Operation at the time of Parameter>



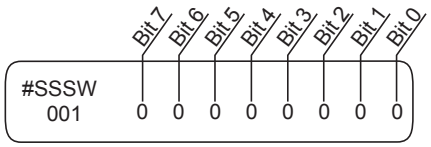
F-5-1

Setting of Bit Switch

Outline

Bit Switch Composition

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



F-5-2

CAUTION:

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

Back-Up

At time of shipment from the factory, all machines are adjusted individually, and adjustment values are recorded in their respective service labels.

If you have replaced the CIS unit or the DC controller PCB, or if you have initialized the RAM, the adjustment values will return to their default settings. If there has been any change in a service mode item, be sure to update its setting indicated on the service label. As necessary, make use of the space in the service label (as when recording an item not found on the label).

Service Label

The item of service label is described below.

In this machine, the output of the service label does not support.

	FACTORY	1	2	3		FACTORY	1	2	3
#PRINT> #PRINT NUMERIC>					#SCAN> READER> ADJUST> ADJ-XY>				
034	xxx				ADJ-X-MG	xxx			
035	xxx				#SCAN> READER> ADJUST> CCD>				
036	xxx				W-PLT-X	xxx			
037	xxx				W-PLT-Y	xxx			
038	xxx				W-PLT-Z	xxx			
054	xxx				50_RG	xxx			
136	xxx				50_GB	xxx			
140	xxx				100_RG	xxx			
141	xxx				100_GB	xxx			
142	xxx				MTF3-M1	xxx			
143	xxx				MTF3-M2	xxx			
145	xxx				MTF3-M3	xxx			
146	xxx				MTF3-M4	xxx			
147	xxx				MTF3-M5	xxx			
148	xxx				MTF3-M6	xxx			
149	xxx				MTF3-M7	xxx			
150	xxx				MTF3-M8	xxx			
#SCAN> READER> ADJUST> ADJ-XY>					MTF3-M9	xxx			
ADJ-X	xxx				#SCAN> READER> ADJUST> PASCAL>				
ADJ-Y	xxx				OFST-P-K	xxx			
ADJ-S	xxx				#SCAN> FEEDER> ADJUST>				
ADJ-Y-DF	xxx				DOCST	xxx			
STRD-POS	xxx				LA-SPEED	xxx			
					DOC-LNGH	xxx			
Body No :									

F-5-3

Details of Service Mode

#SSSW

SSSW Composition

NOTE:
This document describes the default settings for the system for USA.
The default settings used in the service mode vary depending on the shipping destination and model.

No.	Initial setting	Function
SW01	00000000	error/copy control
SW02	00010000	network connection setting
SW03	00000000	echo remedy setting
SW04	00000000	communication fault remedy setting
SW05	00000000	standard function (DIS signal) setting
SW06	10010000	read condition setting
SW7-SW11		not used
SW12	00000010	page timer setting
SW13	00000000	meter/inch resolution setting
SW14	00000001	inch/meter resolution setting
SW15	00000000	dial-in FAX/TEL switch-over function
SW16-SW17		not used
SW18	00000000	remedies for communication faults (2)
SW19-21		not used
SW22	00000000	fault remedy setting
SW23-24		not used
SW25	00000000	report indication resolution setting
SW26-27		not used
SW28	00000000	V.8/V.34 protocol settings
SW29		not used
SW30	00000000	Assigning a New Dial Tone Detection Method
SW31		not used
SW32	00000000	not used
SW33	00000000	counter function settings
SW34	00000011	waste toner full display setting
SW35	00001000	e-RDS function settings
SW36	00000000	Settings to disable auSend
SW37	11111111	Display settings for initialization menu after parts replacement 1
SW38 - SW50		not used

T-5-1

Details

SSSW-SW01

List of Functions

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

T-5-2

Detailed Discussions of Bit 0

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

SSSW-SW02

List of Functions

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	not used	-	-
3	not used	-	-
4	V34 CCRTN OFF	Disable	Not disable
5	not used	-	-
6	not used	-	-
7	F network silent termination service	Compatible	Not compatible

T-5-3

Detailed Discussions of Bit 4

V.34 control channel retrain can be disabled. When "1" is set, control channel retrain is not started by the own machine.

Detailed Discussions of Bit 7

Select whether or not the machine is compatible with the F network (facsimile communication network) silent termination service. When "Compatible" is selected, the machine automatically receives a fax upon detection of the FC signal (1300 Hz tonal signal) without generating a ringtone.

SSSW-SW03

List of Functions

Bit	Function	1	0
0	TCF criteria	Loose	Normal
1	Echo protect tone for high-speed transmission	Transmitted	Not transmitted
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	Tonal signal before CED signal transmission	Transmitted	Not transmitted

T-5-4

Detailed Discussions of Bit 0

Select whether to make the TCF criteria loose when the system with a V.34 modem receives an image using the V.17 protocol.

When "Loose" is selected, fallback hardly occurs when an image is received using the V.17 protocol.

However, since the transmission speed is fast, erroneous lines can be generated after start of image reception or the communication time can become long due to retransmission of erroneous frames.

Detailed Discussions of Bit 1

Selects whether or not the echo protect tone is transmitted for high-speed transmission (9600 or 7200 bps).

If errors due to line conditions occur frequently during fax transmission, select “Transmitted”.

When “Transmitted” is selected, a non-modulated carrier is transmitted as a synchronization signal before the image transmission.

NOTE:
Codes for errors that can occur during transmission because of line conditions:
##100, ##104, ##281, ##282, ##283, ##750, ##755, ##760,##765

Detailed Discussions of Bit 7

Use it to enable/disable transmission of a 1080-Hz tonal signal before transmission of the CED signal.

Select 'transmit' if errors occur frequently because of an echo when reception is from overseas.

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

SSSW-SW04

List of Functions

Bit	Function	1	0
0	not used	-	-
1	Check CI frequency	Yes	No
2	the number of final flag sequences of protocol signals	2	1
3	Reception mode after CFR signal transmission	high speed	high speed/low speed
4	the length of the period of ignoring low speed signals after CFR output	1500ms	700ms
5	Frequency of CI signal is checked when PBX is set.	Yes	No
6	CNG signal for manual transmission	Not transmitted	Transmitted
7	CED signal for manual reception	Not transmitted	Transmitted

T-5-5

Detailed Discussions of Bit 1

In automatic receiving, CI frequency check can be selected. If ‘Yes’ is selected, the upper and lower limits of the CI frequency are checked, and automatic receiving can only go ahead if both values meet German regulations.

Detailed Discussions of Bit 2

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

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

Detailed Discussions of Bit 3

Use it to select an appropriate reception mode after transmission of the CFR signal.

If errors occur frequently at time of reception because of the condition of the line, select 'high speed' for reception mode and, at the same time, selects 'do not receive' for 'ECM reception.'

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

Detailed Discussions of Bit 4
Use it to select the time length during which low-speed signals are ignored after transmission of the CFR signal.
If the condition of the line is not good and, therefore, the reception of image signals is difficult, select '1500 ms.'

Detailed Discussions of Bit 5
In the countries that need approval of CI signal frequency check, no checking on frequency set at PBX when changing the frequency to PSTN setting and PBX
setting for frequency checks.

Detailed Discussions of Bit 6
Selects whether or not to transmit CNG signal during manual transmission.
In manual transmitting to a fax with the FAX/TEL switching mode, if there are frequent errors due to failure to switch to fax mode, select "Transmitted" for the CNG signal.

Detailed Discussions of Bit 7
Selects whether or not to transmit CED signals during manual reception. If the other fax does not transmit even when you start manual reception, select "Transmitted" for the CED signal.

SSSW-SW05

List of Functions

Bit	Function	1	0
0	not used	-	-
1	Conversion from mm to inch (text mode)	execute	do not execute
2	Conversion from mm to inch (text/photo mode)	execute	do not execute
3	transmit bit 33 and thereafter for DIS signal	prohibit	do not prohibit
4	Recording paper length availability declared in DIS signal	A4 size	Arbitrary size
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-6

Detailed Discussions of Bit 1
Use it to enable/disable millimeter/inch conversion in sub scanning direction for images read in text mode.
Scanning direction in conversion follows the Bit 2 setting of SW14.

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

Detailed Discussions of Bit 3
Use it specify whether or not to transmit bit 33 and thereafter for the DIS signal.
If ‘prohibit’ is selected, Super Fine reception from a non-Canon machine can no longer be used.

CAUTION:
If ‘prohibit’ is selected, Super Fine reception from a non-Canon machine can no longer be used.

Detailed Discussions of Bit 4
Selects whether or not the recording paper length declared in the DIS signal is A4 size.
When receiving documents made up of long pages, to have the document divided into two pages at the transmitting fax, select “A4 size”.

NOTE:
When “A4 size” is selected, this fax uses the DIS signal to tell the transmitting fax that it is equipped with A4 size recording paper.
The transmitting fax that receives this DIS signal divides long pages into A4 size pages before transmitting it to the receiving fax.
Some fax models do not so divide long documents.

SSSW-SW06

List of Functions

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	not used	-	-
3	FAX stamp display setting	Displayed	Not displayed
4	original read width	LTR	A4
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-7

Detailed Discussions of Bit 3

Select whether to display the stamp menu in the user menu after installation of the optional stamp unit.

Detailed Discussions of Bit 4

Use it to select a read width for originals.

If 'LTR' is selected, the machine will read LTR originals at LTR width (214mm).

SSSW-SW012

List of Functions

Bit	Function	1	0
0	1-page time-out length for transmission	*	*
1		*	*
2	1-page time-out length for transmission (HT transmission)	*	*
3		*	*
4	1-page time-out length for reception	*	*
5		*	*
6	not used	-	-
7	page timer setting by transmission/reception	set	do not set

T-5-8

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

Selecting "Not set" for Bit 7 specifies the timeout period per page by the combination of the following 2 Bits at the time of communication in any mode.

Time-Out Length for Transmission/reception

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8min.	0	*	*	*	*	*	0	0
16min.	0	*	*	*	*	*	0	1
32min.	0	*	*	*	*	*	1	0
64min.	0	*	*	*	*	*	1	1

T-5-9

Time-Out Length for Transmission (text mode)

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8min.	1	*	*	*	*	*	0	0
16min.	1	*	*	*	*	*	0	1
32min.	1	*	*	*	*	*	1	0
64min.	1	*	*	*	*	*	1	1

T-5-10

Time-Out Length for Transmission (image mode other than text mode)

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8min.	1	*	*	*	0	0	*	*
16min.	1	*	*	*	0	1	*	*
32min.	1	*	*	*	1	0	*	*
64min.	1	*	*	*	1	1	*	*

T-5-11

Time-Out Length for Reception

	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
8min.	1	*	0	0	*	*	*	*
16min.	1	*	0	1	*	*	*	*
32min.	1	*	1	0	*	*	*	*
64min.	1	*	1	1	*	*	*	*

T-5-12

SSSW-SW013

List of Functions

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

T-5-13

Detailed Discussions of Bit 2

It converts "inch" into "mm" when transmitting the received image data.

Scanning direction in conversion follows the Bit 2 setting of SW14.

SSSW-SW014

List of Functions

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

T-5-14

Detailed Discussions of Bit 2

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

Detailed Discussions of Bit 4

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

SSSW-SW15

List of Functions

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	Reception of call through caller ID display line (main unit line)	Yes	No
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	Detection of continuous signal at fax/tel switchover	Yes	No
7	not used	-	-

T-5-15

Detailed Discussions of Bit 2

When a machine which is not compatible with the caller ID display/modem dial-in service is connected to the subscriber line which is compatible with that service, the "main unit line" is made ready for receiving the incoming call.

Detailed Discussions of Bit 6

Select whether to detect a continuous ROT signal at FAX/TEL switchover.

SSSW-SW18

List of Functions

Bit	Function	1	0
0	detection of carrier between DCS and TCF	detect	do not detect
1	wait time for carrier between DCS and TCF	600msec	300msec
2	To disable communication control for IP network.	Yes	No
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-16

Detailed Discussions of Bit 0

For reception, the absence of the carrier between DCS and TCF may be detected. If the machine returns FTT while the other party (PC-FAX in particular) is sending TCF to cause a reception error, be sure to set the bit to ‘1’. If the error still occurs, set bit 1 of #1 SSSW SW18 to ‘1’. This function is valid only when the machine uses an R288F modem.

Detailed Discussions of Bit 1
For reception, the length of time during which the absence of the carrier is detected between DCS and TCF may be set. This bit is valid when '1' is set to bit 0 of #1 SSSW SW18.

Detailed Discussions of Bit 2
You can change the parameter relating to communication control for IP network (SSSW-SW02 bit4) to the existing control in a batch process. The parameter value is handled as a fixed value.

SSSW-SW22

List of Functions

Bit	Function	1	0
0	To disable NSX transmission.	Yes	No
1	not used	-	-
2	not used	-	-
3	Prohibit manual polling	Yes	No
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-17

Detailed Discussions of Bit 0
Nonstandard protocol (own company mode) can be disabled.

Detailed Discussions of Bit 3
Selects whether to prohibit by manual polling (off hook key + start key).

SSSW-SW25

List of Functions

Bit	Function	1	0
0	Transmission telephone numbers displayed on reports from CSI	Other fax number	Called number
1	not used	-	-
2	If void CSI has been received, handle as non-received CSI.	Yes	No
3	Menu display of message language	Display	Do not display
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-18

Detailed Discussions of Bit 0
Selects the transmission telephone number displayed on reports after the completion of transmission.
When "Called number" is selected, the telephone number the fax called is displayed on reports.
When "Other fax number" is selected, the telephone number sent from the other fax (the CSI signal data) is displayed on reports.

Detailed Discussions of Bit 2
At "1" on this Bit, ignore the void CSI if received and if the dial has been made at this point, the dialed number will be indicated on the LCD/ Report screen.
At "0" on this Bit, even though the dialed number is acknowledged, LCD/Report screen will indicate nothing.

Detailed Discussions of Bit 3
When "Display" is selected, adds a Message Language menu to the user data "System Setting". This allows selecting different languages which to show displays and reports.

SSSW-SW28

List of Functions

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

T-5-19

Detailed Discussions of Bit 0
Select whether to use the V.8 protocol when calling. If NO is selected, the V.8 protocol is inhibited at calling and the V.21 protocol is used

Detailed Discussions of Bit 1
Select whether to use the V.8 protocol when called. If NO is selected, the V8 protocol is inhibited when called and the V.21 protocol is used.

Detailed Discussions of Bit 2
If ANSam signal is not received during transmission, select whether to use the V.8 protocol when the other fax machine declares the V.8 protocol in DIS signal. If NO is selected, the CI signal is not transmitted and the V.8 protocol is not used even if the DIS that specifies the V.8 protocol is received.
The V.8 late start is not executed during manual transmission regardless of this setting.

Detailed Discussions of Bit 3
Select whether to declare the V.8 protocol in DIS signal for reception. If NO is selected, the V.8 protocol cannot be used because it is not declared in DIS signal.
The V.8 late start is not executed during manual reception regardless of this setting.

Detailed Discussions of Bit 4
Select whether the receiver falls back during V.34 reception. If 'Prohibit' is selected, the receiver does not fall back.

Detailed Discussions of Bit 5
Select whether the transmitter falls beck during V.34 transmission. If 'Prohibit' is selected, the transmitter does not fall back.

SSSW-SW30

List of Functions

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

T-5-20

Detailed Discussions of Bit 5
When "Detect with the new method" is selected, tone is detected for 3.5 seconds before call origination in order to discriminate between dial tone and voice. If dial tone is detected and the time since line seizure is 3.5 seconds or longer, call origination takes place immediately. If the time since line seizure is less than 3.5 seconds,
call origination takes place after waiting for 1 second. (If the time since line seizure reaches 3.5 seconds during the 1-second waiting period, call origination takes place immediately. By default, "Detect with a new method" is assigned for this SW.

SSSW-SW32

List of Functions

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	NCU version	NCU2002	NCU2004
6	not used	-	-
7	not used	-	-

T-5-21

Detailed Discussions of Bit 5
NCU (Network Control Unit) version can be selected.

SSSW-SW33

List of Functions

Bit	Function	1	0
0	not used	Yes	No
1	not used	-	-
2	not used	Yes	No
3	not used	-	-
4	not used	-	-
5	Toner cartridge replacement counter display	Yes	No
6	not used	-	-
7	not used	-	-

T-5-22

Detailed Discussions of Bit 5
Select whether to display the toner cartridge replacement counter.
When "1" is selected, the counter is displayed.
When "0" is selected, the counter is not displayed.

SSSW-SW34

List of Functions

Bit	Function	1	0
0	Display the waste toner full warning	Yes	No
1	Switch the waste toner full warning	Waste toner container replacement required message displayed on an operator call	E019 displayed on an service call
2	User drum replacement menu display	Yes	No
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-23

Detailed Discussions of Bit 0

You can select whether a waste toner full warning is to be displayed.

When "1" is selected, a waste toner full warning is displayed.

When "0" is selected, a waste toner full warning is not displayed.

Detailed Discussions of Bit 1

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

Detailed Discussions of Bit 2

Select whether to display the user drum replacement menu.

When "1" is selected, the menu is displayed.

When "0" is selected, the menu is not displayed.

SSSW-SW35

List of Functions

Bit	Function	1	0
0	e-RDS function ON/OFF	Yes	No
1	Call button function ON/OFF	Yes	No
2	ScanToMeia function enable/disable	enable	disable
3	MediaPrint function enable/disable	enable	disable
4	IC card authentication management function ON/OFF	Yes	No
5	Handling of a scan job at device logout Default: 0	Stop a scan job	Not stop a scan job
6	Handling of display of the stop confirmation screen when the stop key is pressed during a scan job, except remote scan	Not display the stop confirmation screen (same specification as that of the existing models)	Display the stop confirmation screen (the display specification following that of the iR series)
7	Switching to display/hide the start button of the counter print (known as billing counter report) Default: 1	Display the counter print button	Hide the counter print button

T-5-24

Detailed Discussions of Bit 0

Select whether to set the e-RDS function.

When "1" is selected, the function is set.

When "0" is selected, the function is not set.

Detailed Discussions of Bit 1

Select whether to set the call button function.

When "1" is selected, the function is set.

When "0" is selected, the function is not set.

Detailed Discussions of Bit 2

Select whether to enable or disable the ScanToMeia function.

When "1" is selected, the function is enabled.

When "0" is selected, the function is disabled.

Detailed Discussions of Bit 3

Select whether to enable the MediaPrint function.

When "1" is selected, the function is enabled.

When "0" is selected, the function is disabled.

Detailed Discussions of Bit 4

Select whether to set the IC card authentication function.

When "1" is selected, the function is set.

When "0" is selected, the function is not set.

Detailed Discussions of Bit 5

You can select whether to stop the scan job at the time of device log logout.

Selecting "1" stops the scan job.

Selecting "0" does not stop the scan job.

Detailed Discussions of Bit 6

This is the setting to display the stop confirmation screen when the stop key is pressed during a scan job, except remote scan.
Selecting "1" hides the stop confirmation screen.

Selecting "0" displays the stop confirmation screen.

Detailed Discussions of Bit 7

You can set to display/hide the start button of the counter print (known as billing counter report).
Selecting "1" displays the counter print button.

Selecting "0" hides the counter print button.

SSSW-SW36

List of Functions

Bit	Function	1	0
0	Service switch to disable auSend Default: 0	Disable auSend. You can hide the setting item of auSend in RUI/LUI.	Enabling/disabling of auSend follows the RUI setting. auSend display in RUI/LUI is not affected.
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

T-5-25

Detailed Discussions of Bit 0

You can select whether to disable the auSend function.
Selecting "1" disables auSend. You can hide the setting item of auSend in RUI/LUI.
Selecting "0" follows the RUI setting to enable/disable auSend. auSend display in RUI/LUI is not affected.

SSSW-SW37

List of Functions

Bit	Function	1	0
0	To display the menu of "Initialization after replacement of the Transfer Roller".	Displayed	Not displayed
1	To display the menu of "Initialization after replacement of the Fixing Assembly".	Displayed	Not displayed
2	To display the menu of "Initialization after replacement of Cassette 1 Feed Roller/Separation Roller".	Displayed	Not displayed
3	To display the menu of "Initialization after replacement of Cassette 2 Feed Roller/Separation Roller".	Displayed	Not displayed
4	To display the menu of "Initialization after replacement of Cassette 3 Feed Roller/Separation Roller".	Displayed	Not displayed
5	To display the menu of "Initialization after replacement of Cassette 4 Feed Roller/Separation Roller".	Displayed	Not displayed
6	To display the menu of "Initialization after replacement of Multi-purpose Tray Pickup Roller/Separation Pad".	Displayed	Not displayed
7	To display the menu of "Initialization after replacement of the Transfer Static Eliminator".	Displayed	Not displayed

T-5-26

Detailed Discussions of Bit 0

You can set to display/hide the menu of "Initialization after replacement of the Transfer Roller".

Detailed Discussions of Bit 1

You can set to display/hide the menu of "Initialization after replacement of the Fixing Assembly".

Detailed Discussions of Bit 2

You can set to display/hide the menu of "Initialization after replacement of the Cassette 1 Feed Roller/Separation Roller".

Detailed Discussions of Bit 3

You can set to display/hide the menu of "Initialization after replacement of the Cassette 2 Feed Roller/Separation Roller".

Detailed Discussions of Bit 4

You can set to display/hide the menu of "Initialization after replacement of the Cassette 3 Feed Roller/Separation Roller".

Detailed Discussions of Bit 5

You can set to display/hide the menu of "Initialization after replacement of the Cassette 4 Feed Roller/Separation Roller".

Detailed Discussions of Bit 6
You can set to display/hide the menu of "Initialization after replacement of the Multi-purpose Tray Pickup Roller/Separation Pad".

Detailed Discussions of Bit 7
You can set to display/hide the menu of "Initialization after replacement of the Transfer Static Eliminator".

#MENU

Menu Switch Composition

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

T-5-27

Details

005: NL equalizer

Use it to enable-disable the NL equalizer.

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

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

006: Telephone line monitor

Use it to the telephone line monitor function:

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

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

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

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

007: ATT transmission level

Use it to set the transmission level (ATT).

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

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

008: V.34 modulation speed upper limit

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

009: V.34 data speed upper limit

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

010: Frequency of the pseudo CI signal

You may select a frequency for the pseudo CI signal.

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

#NUMERIC

Numerical Parameter Composition

No.	Item	Range of settings
002	RTN transmission condition (1)	1% to 99%
003	RTN transmission condition (2)	2 to 99 item
004	RTN transmission condition (3)	1 to 99 lines
005	NCC pause time length (pre-ID code)	1 to 60 sec
006	NCC pause time length (post-ID code)	1 to 60 sec
008	Time from Right After Dialing by Auto-dialing to Start of Communication	1 to 65 sec
010	line condition identification time length	0 to 9999 (10 msec)
011	T.30T1 timer (for reception)	0 to 9999 (10 msec)
012	The maximum number of received lines	0 to 65535 (line) * Unlimited in the case of 0
013	T.30 EOL timer	500 to 3000 (10 msec)
015	hooking detection time length	0 to 999
016	time length to first response at time of fax/tel switchover	0 to 9
017	pseudo RBT signal pattern ON time length	0 to 999
018	pseudo RBT signal pattern OFF time length (short)	0 to 999
019	pseudo RBT signal pattern OFF time length (long)	0 to 999
020	pseudo CI signal pattern ON time length	0 to 999
021	pseudo CI signal pattern OFF time length (short)	0 to 999
022	pseudo CI signal pattern OFF time length (long)	0 to 999
023	CNG detection level at time of fax/tel switchover	0 to 7
024	pseudo RBT transmission level at time of fax/tel switchover	10 to 20 0 to 20 (120/230V)
025	Answering machine connection function signal detection time	0 to 999
027	preamble detection time length for V21 low-speed flag	20 (x 10ms)
051	Hooking detection threshold	
053	Setting of DTMF call origination count at remote reception of fax	
055	acquisition period of environmental log data	0 to 480 (60min) (0: no data acquisition)
056	Display the type of soft counter 1	101 (Fixed)
057	Display the type of soft counter 2	0 to 999
058	Display the type of soft counter 3	0 to 999
059	Display the type of soft counter 4	0 to 999
060	Display the type of soft counter 5	0 to 999
061	Display the type of soft counter 6	0 to 999
062	Communication termination timer at SMTP transmission protocol level	0 to 65535 sec
063	Communication termination timer at SMTP reception protocol level	0 to 65535 sec
064	Communication termination timer at POP reception protocol level	0 to 65535 sec
065	Communication termination timer at FTP transmission protocol level	0 to 65535 sec
066	Communication termination timer from start to completion of the transmission of SMTP transmission data	0 to 65535 sec
067	Communication termination timer from start to completion of the reception of SMTP reception data	0 to 65535 sec
068	Communication termination timer from start to completion of the reception of POP reception data	0 to 65535 sec
069	Communication termination timer from start to completion of the transmission of FTP transmission data	0 to 65535 sec
074	e-RDS RGW port number	1 to 65535 default: 443
075	Interval of transmission for e-RDS 3rd party	1 to 168 (hours) default: 24

T-5-28

Details

002:RTN transmission condition (1), 003: RTN transmission condition (2), 004: RTN transmission condition (3)

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

NOTE:
Any of the following error codes may be indicated at time of reception because of RTN signal transmission
##0104, ##0107, ##0114, ##0201
RTN signal transmission condition (1) affects the ratio of error lines to the total number of lines per single page of received images.
RTN signal transmission condition (2) affects the standard value (*2) of burst errors (*1).
RTN signal condition (3) affects the number of errors not reaching the standard value of burst errors.
*1: transmission error occurring cover several lines.
*2: for instance, if '15' is set, a single burst error will represent an error occurring continuously cover 15 lines.
If any of these lines is detected while an image signal is being received, the RTN signal will be transmitted after receiving the protocol signal of the transmitting party. Higher parameters restrict the transmission of the RTN signal.

005:NCC pause length (pre-ID code)

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

006:NCC pause length (post-ID code)

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

008: Time from Right After Dialing by Auto-dialing to Start of Communication

The time to shift to transmission after automatic dialing can be set. The timing to start communication after connecting to the other party is delayed by the specified period of time.

010: line connection identification length

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

NOTE:
Any of the following error codes may be indicated because of the condition of the line
##0005, ##0018
The line condition identification time is between when the dial signal is transmitted and when the line condition is cut for the transmitting party, while it is between when the DIS signal is transmitted and when the line is cut for the receiving party.

011: T.30 T1 timer (for reception)

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

012: The maximum number of received lines

The number of lines at reception can be limited.

013:T.30 EOL timer

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

015: Hooking detection time length

You can set the hooking detection time.

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

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

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

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

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

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

023:CNG detention level for fax/tel switchover

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

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

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

025: Answering machine connection function signal detection time

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

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

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

051: Hook detection threshold value

The time until it is judged as Off-hook can be set.

053: To set the number of DTMF calls at FAX remote reception

The number of digits to detect remote reception ID when answering by the answering phone can be set.
Default: 2

055: Acquisition period of environmental log data

You can change data acquisition cycle of environment log.

056 - 061: Count type select

Use it to confirm the count type indicated on the Counter Check screen, which appears in response to a press on the Counter key.
When '0' is selected, count type will not be indicated.

056:Use it to indicate the type of software counter 1 of the control panel. The type of soft counter 1 cannot be changed.
057:Use it to change the type of soft counter 2* of the control panel to suit the needs of the user.
058:Use it to change the type of soft counter 3* of the control panel to suit the needs of the user.
059:Use it to change the type of soft counter 4* of the control panel to suit the needs of the user.
060:Use it to change the type of soft counter 5* of the control panel to suit the needs of the user.
061:Use it to change the type of soft counter 6* of the control panel to suit the needs of the user.
*:The default type settings of soft counter is different from models.

<Soft Counter Specifications>
The soft counters are classified a follows in terms of input numbers:
100s: total
200s: copy
300s: print
400s: copy + print
500s: scan
700s: received file print
800s: report pint
900s: transmitted scan

Guide to the Table
- 1:Count sheets of all sizes by one.
- 2:Count sheets of the large size by two.
- Bk:Black mono
- C:Full color (Scan only)
- S:Small size (A4/LTR or smaller)
- L: Large size (Larger than A4/LTR)

Since this machine is an A4/LTR model, a counter for large size (B4 and larger) does not operate although it exists. In addition, since it is also a B&W machine, only a color scan counter exists. Therefore, many similar count-up specifications exist. For example, Total1, Total2, Total(S), Total(Bk1), Total(Bk2) and Total(Bk/S) all mean the same with this machine. Any counter can be used.

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

No.	Counter type	Print system							
		Bk							
		1-sided				2-sided			
		Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print
203	Copy(L) *								
204	Copy(S)	1							
205	CopyA (Total1)	1							
206	CopyA (Total2)	1							
207	CopyA (L) *								
208	CopyA (S)	1							
209	Local copy(Total1)	1							
210	Local copy(Total2)	1							
211	Local copy(L) *								
212	Local copy(S)	1							
221	Copy(Bk1)	1							
222	Copy(Bk2)	1							
227	Copy(Bk/L) *								
228	Copy(Bk/S)	1							
237	Copy(Bk/L/2-sided) *								
238	Copy(Bk/S/2-sided)					1			
249	CopyA (Bk1)	1							
250	CopyA (Bk2)	1							
255	CopyA (Bk/L) *								
256	CopyA (Bk/S)	1							
265	CopyA (Bk/L/2-sided) *								
266	CopyA (Bk/S/2-sided)					1			
277	Local copy(Bk1)	1							
278	Local copy(Bk2)	1							
283	Local copy(Bk/L) *								
284	Local copy(Bk/S)	1							
293	Local copy(Bk/L/2-sided) *								
294	Local copy(Bk/S/2-sided)					1			
301	Print (Total1)		1		1				
302	Print (Total2)		1		1				
303	Print (L) *								
304	Print (S)		1		1				
305	PrintA (Total1)		1		1				
306	PrintA (Total2)		1		1				
307	PrintA (L) *								
308	PrintA (S)		1		1				
313	Print (Bk1)		1		1				
314	Print (Bk2)		1		1				

No.	Counter type	Print system							
		Bk							
		1-sided				2-sided			
		Local copy	PDL print	FAX print	Report print	Local copy	PDL print	FAX print	Report print
319	Print (Bk/L) *								
320	Print (Bk/S)		1		1				
329	Print (Bk/L/2-sided) *								
330	Print (Bk/S/2-sided)						1		1
331	PDLprint (Total1)		1						
332	PDL print (Total2)		1						
333	PDL print (L) *								
334	PDL print (S)		1						
339	PDL print (Bk1)		1						
340	PDL print (Bk2)		1						
345	PDL print (Bk/L) *								
346	PDL print (Bk/S)		1						
355	PDL print (Bk/L) *								
356	PDL print (Bk/S)						1		
403	Copy+Print (Bk/L) *								
404	Copy+Print (Bk/S)	1	1		1				
405	Copy+Print (Bk2)	1	1		1				
406	Copy+Print (Bk1)	1	1		1				
411	Copy+Print (L) *								
412	Copy+Print (S)	1	1		1				
413	Copy+Print (2)	1	1		1				
414	Copy+Print (1)	1	1		1				
421	Copy+Print (Bk/L) *								
422	Copy+Print (Bk/S)					1	1		1
701	Received print (Total1)			1					
702	Received print (Total2)			1					
703	Received print (L) *								
704	Received print (S)			1					
709	Received print (Bk1)			1					
710	Received print (Bk2)			1					
715	Received print (Bk/L) *								
716	Received print (Bk/S)			1					
725	Received print (Bk/L/2-sided) *								
726	Received print (Bk/S/2-sided)							1	
801	Report print (Total1)				1				
802	Report print (Total2)				1				
803	Report print (L) *								
804	Report print (S)				1				
809	Report print (Bk1)				1				
810	Report print (Bk2)				1				
815	Report print (Bk/L) *								
816	Report print (Bk/S)				1				
825	Report print (Bk/L/2-sided) *								
826	Report print (Bk/S/2-sided)								1

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*: Since this machine does not support large size, a counter for large size does not operate although it exists.

No.	Counter type	Scan system												
		Bk						C						
		1-sided												
		Pull scan	E-mail scan	FileShare DB scan	E-mail FileShare DB scan	FileShare DB Box scan	E-mail FileShare DB Box scan	Total scan	Pull scan	E-mail scan	FileShare DB scan	E-mail FileShare DB scan	FileShare DB Box scan	E-mail FileShare DB Box scan	Total scan
501	Scan (Total1)							1							1
505	Bk scan (Total1)							1							
506	Bk scan (Total2)							1							
507	Bk scan (L)														
508	Bk scan (S)							1							
509	C scan Total (1)														1
510	C scan Total (2)														1
511	C scan (L)														
512	C scan (S)														1
915	Transmission scan Total2 (C)													1	
916	Transmission scan Total2 (Bk)						1								
917	Transmission scan Total3 (C)											1			
918	Transmission scan Total3 (Bk)				1										
921	Transmission scan Total5 (C)										1				
922	Transmission scan Total5 (Bk)			1											
929	Transmission scan Total6 (C)												1		
930	Transmission scan Total6 (Bk)					1									
939	Remote scan (C)								1						
940	Remote scan (Bk)	1													
945	Transmission scan/E-mail (C)									1					
946	Transmission scan/E-mail (Bk)		1												

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062: Communication termination timer at SMTP transmission protocol level

Communication termination timer at SMTP transmission protocol level can be set.

063: Communication termination timer at SMTP reception protocol level

Communication termination timer at SMTP reception protocol level can be set.

064: Communication termination timer at POP reception protocol level

Communication termination timer at POP reception protocol level can be set.

065: Communication termination timer at FTP transmission protocol level

Communication termination timer at FTP transmission protocol level can be set.

066: Communication termination timer from start to completion of the transmission of SMTP transmission data

Communication termination timer from start to completion of the transmission of SMTP transmission data can be set.

067: Communication termination timer from start to completion of the reception of SMTP reception data

Communication termination timer from start to completion of the reception of SMTP reception data can be set.

068: Communication termination timer from start to completion of the reception of POP reception data

Communication termination timer from start to completion of the reception of POP reception data can be set.

069: Communication termination timer from start to completion of the transmission of FTP transmission data

Communication termination timer from start to completion of the transmission of FTP transmission data can be set.

074: Port number of e-RDS RGW

Port number of e-RDS RGW can be set.

1 to 65535

Default: 443

075: Transmission intervals for e-RDS 3rd party

Transmission intervals for e-RDS 3rd party can be set.

1 to 168 (hours)

Default: 24

#SCAN

■ Setting of Scanner Functions (SCANNER)

Item1	No.	Initial setting	Appropriate guideline	Description
#SCAN SW	SW01 - 04			Not used
	SW05:	Differs according to the location.		Changes "AB configuration/Inch configuration" of the original size detection
	SW06			Not used
#SCAN NUMERIC	001: - 032:			Not used
	033:	50		Vertical scan magnification correction (scanning on BOOK)
	034:	50		Horizontal scan magnification correction (scanning on BOOK)
	035: - 046:			Not used
	047:	50		Vertical scan magnification correction (scanning on ADF)
	048:	50		Horizontal scan magnification correction (scanning on ADF)
	049: - 134:			Not used
	135:	30		Leading edge trimming length when performing fax operation using the Copyboard (0.1 mm)
	136: - 137:			Not used
	138:	15		Leading edge frame length when performing copy operation using the Copyboard (0.1 mm)
	139: - 144:			Not used
	145:	30		Leading edge trimming length when performing fax operation using the ADF (0.1 mm)
	146:	30		Trailing edge trimming length when performing fax operation using the ADF (0.1 mm)
	147:	10		Left-right frame length when performing fax operation using the ADF (0.1 mm)
	148:	25		Leading edge frame length when performing copy operation using the ADF (0.1 mm)
	149: - 164:			Not used
	165:	4		Leading edge frame length when performing SEND SCAN using the Copyboard (0.1 mm)
	166: - 167:			Not used
	168:	0		Leading edge frame length when performing SEND SCAN using the ADF (0.1 mm)
	169: - 192:			Not used
#SCAN NUMERIC	193:	0	0: LEGAL 1: FOOLSCAP 2: M_OFICIO 3: A_FOOLSCAP 4: FOLIO 5: G_LEGAL 7: B_OFICIO 8: OFICIO 9: F4A	ADF special paper, standardized size: LGL misidentification-ready To enable the change in this service mode, the following settings need to be changed: #SCAN > #SCAN SW > SW05, #SYSTEM > #SYSTEM SW > SW57
	195:	0	0: LTR_R 1: FOOLSCAP 2: OFFICIO 4: G_LTR_R 6: K_LGL_R 7: EXE_R	ADF special paper, standardized size: LTR_R misidentification-ready To enable the change in this service mode, the following settings need to be changed: #SCAN > #SCAN SW > SW05, #SYSTEM > #SYSTEM SW > SW57
	196: - 290:			Not used

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Item1	Item2	Item3	Item4	Initial setting	Appropriate guideline	Description
READER	DISPLAY	CCD	TARGET-B	1 to 2047 (appropriate range)	0 to FFFF	Target value of shading for blue
			TARGET-G	1 to 2047 (appropriate range)	0 to FFFF	Target value of shading for green
			TARGET-R	1 to 2047 (appropriate range)	0 to FFFF	Target value of shading for red
			OFST			Adjustment value of offset level on CIS
			OFST-B			not used
			OFST-G			not used
			OFST-R			not used
			OFST-O			not used
			OFST-E			not used
			GAIN	0 to 255	0 to 255	Adjustment value of gain level on CIS
			GAIN-B			not used
			GAIN-G			not used
			GAIN-R			not used
			GAIN-O			not used
			GAIN-E			not used
	IO	R-CON				Display of I/O port of the Reader Controller PCB (Reader Assembly)
		FEEDER				Display of I/O port of the Reader Controller PCB (DADF)
	ADJUST	ADJ-XY	ADJ-X	20	1 to 211, 1=0.1mm	Adjustment of scanning system image lead edge position (image's scan-start position in vertical scanning direction)
			ADJ-Y	0	-25 to +25, 1=0.1mm	Adjustment value of image scan-start position <Y-direction>
			ADJ-S	75	25 to 500, 1=0.1mm	Adjustment of CIS scan-start cell position (image scan-start position in horizontal scanning direction)
			ADJ-Y-DF	0	-25 to +25, 1=0.1mm	Adjustment of horizontal scanning position at DF stream reading
			STRD-POS	100	1 to 200	Adjustment of CIS scan position at stream-reading mode with DF

Item1	Item2	Item3	Item4	Initial setting	Appropriate guideline	Description
READER	ADJUST	ADJ-XY	ADJ-X-MG	0	-10 to +10, 1=0.1%	Fine adjustment of magnification ratio in vertical scanning direction at copyboard reading
		CCD	W-PLT-X	8273	1 to 9999	White label data entry with standard white plate
			W-PLT-Y	8737	1 to 9999	White label data (Y) entry with standard white plate
			W-PLT-Z	9427	1 to 9999	White label data (Z) entry with standard white plate
			SH-TRGT	272	1 to 2047	Shading target value of the standard white plate (backup)
			50_RG			not used
			50_GB			not used
			100_RG			not used
			100_GB			not used
			50DF_RG			not used
			50DF_GB			not used
			100DF_RG			not used
			100DF_GB			not used
			DFTAR-R	292	1 to 2047	Shading target value (RED) entry when using DF (normal document scanning position)
			DFTAR-G	297	1 to 2047	Shading target value (GREEN) entry when using DF (normal document scanning position)
			DFTAR-B	294	1 to 2047	Shading target value (BLUE) entry when using DF (normal document scanning position)
			CCD-CHNG			not used
			DFTAR-K	293	1 to 2047	Black shading target value when using DF
			MTF3-M1			not used
			MTF3-M2			not used
			MTF3-M3			not used
			MTF3-M4			not used
			MTF3-M5			not used
			MTF3-M6			not used
			MTF3-M7			not used
			MTF3-M8			not used
			MTF3-M9			not used
			MTF3-M10			not used
			MTF3-M11			not used
			MTF3-M12			not used
			MTF3-S1			not used

Item1	Item2	Item3	Item4	Initial setting	Appropriate guideline	Description
READER	ADJUST	CCD	MTF3-S2			not used
			MTF3-S3			not used
			MTF3-S4			not used
			MTF3-S5			not used
			MTF3-S6			not used
			MTF3-S7			not used
			MTF3-S8			not used
			MTF3-S9			not used
			MTF3-S10			not used
			MTF3-S11			not used
			MTF3-S12			not used
			MTF4-M1			not used
			MTF4-M2			not used
			MTF4-M3			not used
			MTF4-M4			not used
			MTF4-M5			not used
			MTF4-M6			not used
			MTF4-M7			not used
			MTF4-M8			not used
			MTF4-M9			not used
			MTF4-M10			not used
			MTF4-M11			not used
			MTF4-M12			not used
			MTF4-S1			not used
			MTF4-S2			not used
			MTF4-S3			not used
			MTF4-S4			not used
			MTF4-S5			not used
			MTF4-S6			not used
			MTF4-S7			not used
			MTF4-S8			not used
			MTF4-S9			not used
			MTF4-S10			not used
			MTF4-S11			not used
			MTF4-S12			not used
		PSCAL	OFST-P-K	0	-128 to 128	Density adjustment at test print scanning

Item1	Item2	Item3	Item4	Initial setting	Appropriate guideline	Description
READER	FUNCTION	INSTALL	STRD-POS			not used
		CCD	CCD-ADJ			Gain adjustment of analog processor block.
			DF-WLVL1			ADF white level adjustment (platen board cover scan/ stream reading scan)
			DF-WLVL2			ADF white level adjustment (platen board cover scan/ stream reading scan)
			MTF-CLC			not used
			DF-WLVL3			ADF white level adjustment (platen board cover scan)
			DF-WLVL4			ADF white level adjustment (DF scan)
		CLEAR	R-CON			Clearing of the backup area for the reader in the main controller.
		MISC-R	SCANLAMP			Executing activation of the scanning lamp
	OPTION	BODY	SENS-CNF			Setting of the document detection sensor placement
			MODELSZ2			not used
			SZDT-SW			not used
			DFDST-L1	215	0 - 255	Dirt detection level adjustment (between documents) during ADF use 0:OFF
			DFDST-L2			not used
			KSIZE-SW			not used
			UNK-A5R	0	0: Detected as custom paper size 1: Detected as A5-R (STMT-R)	The setting to detect a custom paper size that is smaller than A4-R (LTR-R) by the copyboard original size detection
		USER	SIZE-DET	1	0: OFF 1: ON	ON/OFF setting of the original size detection

Item1	Item2	Item3	Item4	Initial setting	Appropriate guideline	Description
FEEDER	ADJUST	DOCST			-50 to 50	Adjusting the original stop position for ADF pickup (original tray pickup)
		LA-SPEED			-30 to 30	Adjusting the original feeding speed in stream reading
		LA-SPD2			-30 - 30	Adjustment of original feed speed at Feeder stream reading (back side)
		DOC-LNGH				not used
	FUNCTION	MTR-CHK			0 - 1	Operation check of the motors: specify a motor
		FEED-CHK			0 - 3	Checking the passage of paper for ADF
		CL-CHK				not used
		CL-ON				not used
		FAN-CHK				not used
		FAN-ON				not used
		SL-CHK			0 - 4	Checking the ADF solenoid
		SL-ON				Starting the solenoid operation
		MTR-ON				Starting the motor operation
		ROLL-CLN				not used
		FEED-ON				Checking the passage of paper with ADF
	OPTION	UNK-A5R		0	0: Detected as custom paper size 1: Detected as A5-R (STMT-R)	The setting to detect a custom paper size that is smaller than A4-R (LTR-R) by the ADF original size detection

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■ SCAN SW

● SW05

Paper size type setting for DF

Bit	Function	1	0
0	A configuration (same as AB configuration)	Enable	Disable
1	AB configuration	Enable	Disable
2	Inch configuration	Enable	Disable
3	not used	–	–
4	not used	–	–
5	not used	–	–
6	not used	–	–
7	not used	–	–

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Numeric Parameter Settings (Numeric Prama.)

033Vertical scan magnification correction

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

034: Horizontal scan magnification correction

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

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

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

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

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

135: Leading edge trimming length when performing fax operation using the Copyboard (0.1 mm)

As the value is incremented by "1", the leading edge non-image width is increased by 0.1mm.

138: Leading edge frame length when performing copy operation using the Copyboard (0.1 mm)

As the value is incremented by 1, the image position moves to the trailing edge side by 0.1mm.

145: Leading edge trimming length when performing fax operation using the ADF (0.1 mm)

As the value is incremented by "1", the leading edge non-image width is increased by 0.1mm.

146: Trailing edge trimming length when performing fax operation using the ADF (0.1 mm)

As the value is incremented by "1", the trailing edge non-image width is increased by 0.1mm.

147: Left-right frame length when performing fax operation using the ADF (0.1 mm)

As the value is incremented by 1, the image position moves to the right edge side by 0.1mm.

148: Leading edge frame length when performing copy operation using the ADF (0.1 mm)

As the value is incremented by 1, the image position moves to the trailing edge side by 0.1mm.

165: Leading edge frame length when performing SEND SCAN using the Copyboard (0.1 mm)

As the value is incremented by 1, the image position moves to the trailing edge side by 0.1mm.

168: Leading edge frame length when performing SEND SCAN using the ADF (0.1 mm)

As the value is incremented by 1, the image position moves to the trailing edge side by 0.1mm.

193: ADF special standard-sized paper: LGL misidentification-ready

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

0 : LEGAL 1 : FOOLSCAP 2 : M_OFICIO 3 : A_FOOLSCAP 4 : FOLIO
5 : G_LEGAL 7 : B_OFICIO 8 : OFICIO 9 : F4A

To enable the change in this service mode, the following settings need to be changed:
#SCAN > #SCAN SW > SW05,
#SYSTEM > #SYSTEM SW > SW57

When 1 to 5, 7, 8 are set

#SCAN > #SCAN SW > SW05	2 (Inch configuration)
#SYSTEM > #SYSTEM SW > SW57	2 (Inch configuration)

When 10 is set

#SCAN > #SCAN SW > SW05	0 or 1 (A configuration, AB configuration)
#SYSTEM > #SYSTEM SW > SW57	1 or 0 (A configuration, AB configuration)

● 195: ADF special standard-sized paper: LTR_R misidentification-ready

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

0: LTR_R 1: FOOLSCAP 2: OFFICIO
4: G_LTR_R 6: K_LGL_R 7: EXE_R

To enable the change in this service mode, the following settings need to be changed:

#SCAN > #SCAN SW > SW05,
#SYSTEM > #SYSTEM SW > SW57

When 1, 2, 4, 7 are set

#SCAN > #SCAN SW > SW05	2 (Inch configuration)
#SYSTEM > #SYSTEM SW > SW57	2 (Inch configuration)

When 6 is set

#SCAN > #SCAN SW > SW05	0 or 1 (A configuration, AB configuration)
#SYSTEM > #SYSTEM SW > SW57	1 or 0 (A configuration, AB configuration)

■ READER

● #SCAN> READER> DISPLAY> CCD> TARGET-B

Target value of shading for blue

If the scanned image has some failure, check the target value of shading for blue.
If the machine continues to display 0 (minimum) or FFFF (maximum), there may be some problem on main controller PCB.
Appropriate guideline :1 to 2047

● #SCAN> READER> DISPLAY> CCD> TARGET-G

Target value of shading for green

If the scanned image has some failure, check the target value of shading for green.
If the machine continues to display 0 (minimum) or FFFF (maximum), there may be some problem on main controller PCB.
Appropriate guideline :1 to 2047

● #SCAN> READER> DISPLAY> CCD> TARGET-R

Target value of shading for red

If the scanned image has some failure, check the target value of shading for red.
If the machine continues to display 0 (minimum) or FFFF (maximum), there may be some problem on main controller PCB.
Appropriate guideline :1 to 2047

● #SCAN> READER> DISPLAY> CCD> OFST

Adjustment value of offset level on CIS

To judge if this adjustment value is correct when an image fault attributed to CIS occurs.
Appropriate guideline :0 to 255

● #SCAN> READER> DISPLAY> CCD> GAIN

Adjustment value of gain level on CIS

To judge if this adjustment value is correct when an image fault attributed to CIS occurs.
Appropriate guideline :0 to 255

#SCAN> READER> I/O> R-CON> P001

Display of I/O port of the Reader Controller PCB (Reader Assembly)

Display the I/O state of the sensor of the reader unit.

Bit	Name	Display contents	Remarks
Bit0	ADF Open/Close Sensor (PS23)	1: Open, 0: Close	
Bit1	CIS HP Sensor (PS24)	1: HP	
Bit2	Not used		
Bit3	Not used		
Bit4	Original Size Sensor 1 (PS22)	1: Document present 0: No document	
Bit5	Original Size Sensor 2 (PS21)	1: Document present 0: No document	
Bit6	Not used		
Bit7	Not used		
Bit8-15	Not used		

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#SCAN> READER> I/O> FEEDER> P001

Display of I/O port of the Reader Controller PCB (DADF)

Display the I/O state of the sensor of the ADF unit.

Bit	Name	Display contents	Remarks
Bit0	Document Width Detection Sensor (PS31)	1: A4-R (LTR-R) or larger, 0: Smaller than A4R (LTR-R)	
Bit1	Not used		
Bit2	Document Length Detection Sensor (PS32)	1: LGL or larger, 0: Smaller than LGL	
Bit3	Not used		
Bit4	Not used		
Bit5	Read Sensor (PS25)	1: Document present 0: No document	
Bit6	Timing Sensor (PS29)	1: Document present 0: No document	
Bit7	Registration Sensor (PS26)	1: Document present 0: No document	
Bit8	Delivery/Reverse Sensor (PS27)		
Bit9	Lower Reverse Sensor (PS28)	1: Document present 0: No document	
Bit10	Not used		
Bit11	Not used		
Bit12	Not used		
Bit13	Document Set Sensor (PS30)	1: Document present 0: No document	
Bit14	ADF connection check	1: Connected, 0: Not connected	
Bit15	Not used		

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#SCAN> READER> ADJUST> ADJ-XY> ADJ-X

Adjustment of scanning system image lead edge position. (image's scan-start position in vertical scanning direction)

0.1mm shift of image scan-start position toward the trail edge direction by 1-increment in the setting.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the service label.

#SCAN> READER> ADJUST> ADJ-XY> ADJ-Y

Adjustment value of image scan-start position <Y-direction>

0.1mm shift of image scan-start position toward the trail edge direction by 1-increment in the setting.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the service label.

#SCAN> READER> ADJUST> ADJ-XY> ADJ-S

Adjustment of CIS scan-start cell position. (image scan-start position in horizontal scanning direction)

Adjust the position to measure data for shading correction with standard white plate. This item must not be normally used.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the service label.

#SCAN> READER> ADJUST> ADJ-XY> ADJ-Y-DF

Adjustment of horizontal scanning position at DF stream reading.

Adjust horizontal scanning position at DF stream reading. (Because the Original Tray at Feeder side does not have mechanism to adjust side registration.)

0.1mm shift of image scan-start position toward the front direction by 1-increment in the setting value.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the service label.

#SCAN> READER> ADJUST> ADJ-XY> ADJ-Y-POS

Adjustment of CIS scan position at stream-reading mode with DF.

This item must not be normally used.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the reader's service label.

#SCAN> READER> ADJUST> ADJ-XY> ADJ-X-MG

Fine adjustment of magnification ratio in vertical scanning direction at copyboard reading

Perform fine adjustment of magnification ratio in vertical scanning direction at copyboard reading.

0.1mm shift of image scan-start position toward the front direction by 1-increment in the setting value.

NOTE:
If changing the setting value of this item, be sure to Note the changed value on the reader's service label.

#SCAN> READER> ADJUST> CCD> W-PLT-X

White label data entry with standard white plate.

#SCAN> READER> ADJUST> CCD> W-PLT-Y

White label data (Y) entry with standard white plate.

#SCAN> READER> ADJUST> CCD> W-PLT-Z

White label data (Z) entry with standard white plate.

Execute this mode only when necessary. Do not execute it when unnecessary.

NOTE:
Be sure to enter the numeric value on copyboard glass when replacing the copyboard glass.
If changing the setting value of this item, be sure to Note the changed value on the service label.

#SCAN> READER> ADJUST> CCD> SH-TRGT

Shading target value of the standard white plate (backup).

This item must not be normally used.

#SCAN> READER> ADJUST> CCD> DFTAR-R

Shading target value (RED) entry when using DF (normal document scanning position).

#SCAN> READER> ADJUST> CCD> DFTAR-G

Shading target value (GREEN) entry when using DF (normal document scanning position).

#SCAN> READER> ADJUST> CCD> DFTAR-B

Shading target value (BLUE) entry when using DF (normal document scanning position).

This item must not be normally used.

#SCAN> READER> ADJUST> CCD> DFTAR-K

Black shading target value when using DF.

This item must not be normally used.

#SCAN> READER> ADJUST> PASCAL> OFST-P-K

Density adjustment at test print scanning.

Execute offset adjustment for test print scanning signal in PASCAL control at auto gradation correction (full correction)

#SCAN> READER> FUNCTION> CCD> CCD-ADJ

Gain adjustment of analog processor block (on CCD PCB).

The gain of LED of CIS is corrected to set the CIS parameter automatically. (AGC adjustment)
Execute this after replacing the CIS unit.

#SCAN> READER> FUNCTION> CCD> DF-WLVL1

ADF white level adjustment (platen board cover scan/stream reading scan).

#SCAN> READER> FUNCTION> CCD> DF-WLVL2

ADF white level adjustment (platen board cover scan/stream reading scan).

1) Place a paper that users normally use on the copyboard glass and execute the following item; SCAN > READER > FUNCTION > CCD > DFWLVL1/ DF-WLVL2
: Read the white level in BOOK mode. (Check the transparency of the glass for BOOK mode.)
2) Set a paper that users normally use and execute the following item;
SCAN > READER > FUNCTION > CCD > DFWLVL1/ DF-WLVL2
: Read the white level in DF mode (stream reading). (Check the transparency of the glass for stream reading.) (Read the both sides of chart.) Reading the face: Calculate DFTAR-R

NOTE:
Be sure to execute these two items (DF-WLVL1/DF-WLVL2) simultaneously.

#SCAN> READER> FUNCTION> CCD> DF-WLVL3

ADF white level adjustment (platen board cover scan).

NOTE:
Scan a blank sheet on the platen and adjust the white level.

#SCAN> READER> FUNCTION> CCD> DF-WLVL4

ADF white level adjustment (DF scan).

NOTE:
Scan a blank sheet in stream reading mode and adjust the white level.

#SCAN> READER> FUNCTION> CLEAR> R-CON

Clearing of the backup area for the reader in the main controller.

Clear the backup area for the reader in the main controller.

#SCAN> READER> FUNCTION> MISC-R> SCANLAMP

The test checks to see if the scanning lamp is on or not.

Execute the when replacing the CIS unit.

#SCAN> READER> OPTION> BODY> SENS-CNF

Setting of the document detection sensor placement

The setting of document detection size is selected in accordance with the document sensor placement.
0: AB type
1: Inch type

#SCAN> READER> OPTION> BODY> DFDST-L1

Dirt detection level adjustment (between documents) during ADF use.

Increase the value when dirt fails to be detected, resulting in black streaks. However, if the value is increased too much, even small-sized dirt of the kind which does not appear on the image will also be detected, and the cleaning instruction screen may appear frequently. Reduce the value if users complain because the cleaning instruction screen which appears when dirt is detected is displayed frequently. Conversely, if the value is reduced too much, black streaks may appear on the images.
When '0' is set, the correction control function used when dirt is detected is canceled.

#SCAN> READER> OPTION> BODY> UNK-A5R

The setting to detect a custom paper size that is smaller than A4-R (LTR-R) by the copyboard original size detection

This is the setting whether to detect a custom paper size that is smaller than A4R (LTRR) as A5R (STMTR) by the copyboard original size detection.
0: Detected as custom paper size
1: Detected as A5R (STMTR)

#SCAN> READER> OPTION> USER> SIZE-DET

ON/OFF setting of the original size detection

To set ON/OFF of the original size detection.
0: OFF
1: ON

FEEDER

#SCAN> FEEDER> ADJUST> DOCST

Adjusting the original stop position for ADF pickup (original tray pickup).

Delivering the original enables the setting. Be sure to press the OK key to deliver the original.
When changing the setting, input the setting on the main station service label.
The larger the value, the smaller the leading edge margin.

#SCAN> FEEDER> ADJUST> LA-SPEED

Adjusting the original feeding speed in stream reading.

Use this mode to adjust the original feeding speed in stream reading mode.
The larger the setting, the faster the speed (the image reduced).

#SCAN> FEEDER> ADJUST> LA-SPD2

Adjustment of original feed speed in backside stream reading mode

As the setting value is increased, the speed is increased (image is reduced).

#SCAN> FEEDER> FUNCTION> MTR-CHK

Operation check for the ADF motor, etc.

Specify a paper feed mode to check passage of paper by the DF. Select #SCAN> FEEDER> FUNCTION> MTR-ON to execute this.

0: Feed Motor (M11)
1: Delivery Reversal Motor (M12)

#SCAN> FEEDER> FUNCTION> FEED-CHK

Checking the passage of paper for ADF.

Specify a paper feed mode to check passage of paper by the DF. Select #SCAN> FEEDER> FUNCTION> FEED-ON to execute this.

0: 1-sided feed mode
1: 2-sided feed mode
2: not used
3: not used

#SCAN> FEEDER> FUNCTION> SL-CHK

Checking the ADF solenoid.

Specify a solenoid to perform a solenoid check. Select #SCAN>FEEDER > FUNCTION > SL-ON to execute this.

0: Pickup Solenoid (SL5)
1: Registration Solenoid (SL4)
2: Flapper Solenoid 1 (SL7)
3: Flapper Solenoid 2 (SL6)
4: Roller Release Solenoid (SL8)

#SCAN> FEEDER> FUNCTION> SL-ON

Start of solenoid operation

Selecting 1 starts solenoid operation.

#SCAN> FEEDER> FUNCTION> MTR-ON

Starting the motor operation.

Selecting 1 start motor operation.

#SCAN> FEEDER> FUNCTION> FEED-ON

Checking the passage of paper with ADF.

Selecting 1 starts checking passage of paper by the ADF.

#SCAN> FEEDER> OPTION> UNK-A5R

The setting to detect a custom paper size that is smaller than A4-R (LTR-R) by the ADF original size detection

This is the setting whether to detect a custom paper size that is smaller than A4R (LTRR) as A5R (STMTR) by the ADF original size detection.

0: Detected as custom paper size
1: Detected as A5R (STMTR)

#PRINT

■ Numeric Parameter Settings (Numeric Prama)

Item	No.	Default	Setting range	Function
#PRINT SW	SW01- SW12			Not used
	SW13	00000001		Stopping of drive of the Delivery Cooling FAN
	SW14:	00000100		Special mode setting
	SW15	00000010		Interruption of staple job when there is no staple
	SW16: - 50:			Not used
#PRINT NUMERIC	01: - 52:			Not used
	53:	25	0 to 9999, one unit = 0.1 mm	Adjustment of margin at leading edge of copy
	54:	25	0 to 9999, one unit = 0.1 mm	Adjustment of margin at trailing edge of copy
	55:	25	0 to 9999, one unit = 0.1 mm	Adjustment of margin at right edge of copy
	56:	25	0 to 9999, one unit = 0.1 mm	Adjustment of margin at left edge of copy
	57:			Not used
	58:	145	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Manual tray)
	59:	163	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Cassette)
	60:			Not used
	61:	145	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Duplex unit)
	62:	7	0 to 14	Temperature adjustment UP/DOWN mode (For normal paper)
	63:	7	0 to 14	Temperature adjustment UP/DOWN mode. (For thick paper)
	64:	2	0 to 4	Mode for preventing the end temperature rise
	65:	0	0 to 2	Mode for reducing sand image
	66:	0	0 to 3	Temperature/ Humidity sensor fixed mode
	67:- 133:			Not used
	134:	212	0 to 255	Laser light intensity adjustment (normal speed)
	135:	183	0 to 255	Laser light intensity adjustment (low speed)
	136:	1000	488 to 1511	Adjustment of the point to start writing in main scanning direction (A)
	137:- 139:			Not used
	144:			Not used
	145:	1000	488 to 1511	Adjustment of the magnification to write image in main scanning direction (A-B)
	146:	1000	488 to 1511	Adjustment of the magnification to write image in main scanning direction (A-C)
	147:	1000	488 to 1511	Adjustment of the magnification to write image in main scanning direction (A-D)
	148:	1000	488 to 1511	Adjustment of the point to start writing in main scanning direction (A-B)
	149:	1000	488 to 1511	Adjustment of the point to start writing in main scanning direction (A-C)
	150:	1000	488 to 1511	Adjustment of the point to start writing in main scanning direction (A-D)
	151:	100	0 to 227	Developing bias offset for DC
	152:	100	0 to 227	Primary charge offset for DC
	153:	100	0 to 227	Primary charge offset for AC
	154:	100	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Thick paper)
	155:	100	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Special paper)
	156:	100	0 to 227, one unit = 0.1 mm	Adjustment of the registration loop volume (Envelop cassette pickup)
	157:	7	0 to 14	Pickup timing adjustment
	158:-164:			Not used
	165:	0	0 to 3	Fixing auto cleaning frequency setting
	166:	7	0 to 14	Temperature adjustment UP/DOWN mode (Plain paper, manual feed tray)
	167: -169:			Not used
	170:	0	0 to	Charging frequency setting
	171: -172:			Not used
	173:	7	0 to 14	Temperature adjustment UP/DOWN mode (2nd page of double-sided printing)
	174:	0	0 to 1	Reduction in FCOT
	175:-177:			Not used
	178:	1	0 to 1	Setting of fixing auto cleaning
	179:	7	0 to 14	Temperature adjustment UP/DOWN mode (Envelop/Postcard)
	180:	7	0 to 14	Temperature adjustment UP/DOWN mode (Special mode N)

T-5-36

Item1	Item2	Item3	Default	Setting range	Function
#CST	CAS1	CAS1-U1	0	26: OFI, 37: M-OFI, 24: FLSP, 25: A-FLSP, 42: FA4, 34: G-LGL 0: default	Cassette 1paper size group special, standard-size paper entry
		CAS1-U2	0	32: G-LTR-R, 23: K-LGL-R, 0: default	
		CAS1-U3	0	Not used	
		CAS1-U4	0	28: B-OFI, 0: default	
	CAS2	CAS2-U1	0	26: OFI, 37: M-OFI, 24: FLSP, 25: A-FLSP, 42: FA4, 34: G-LGL 0: default	Cassette 2 paper size group special, standard-size paper entry
		CAS2-U2	0	32: G-LTR-R, 23: K-LGL-R, 0: default	
		CAS2-U3	0	Not used	
		CAS2-U4	0	28: B-OFI, 0: default	
	CAS3	CAS3-U1	0	26: OFI, 37: M-OFI, 24: FLSP, 25: A-FLSP, 42: FA4, 34: G-LGL 0: default	Cassette 3 paper size group special, standard-size paper entry
		CAS3-U2	0	32: G-LTR-R, 23: K-LGL-R, 0: default	
		CAS3-U3	0	Not used	
		CAS3-U4	0	28: B-OFI, 0: default	
	CAS4	CAS4-U1	0	26: OFI, 37: M-OFI, 24: FLSP, 25: A-FLSP, 42: FA4, 34: G-LGL 0: default	Cassette 4 paper size group special, standard-size paper entry
		CAS4-U2	0	32: G-LTR-R, 23: K-LGL-R, 0: default	
		CAS4-U3	0	Not used	
		CAS4-U4	0	28: B-OFI, 0: default	

T-5-37

Service Soft Switch Settings (PRINTER)

SSSW-SW13

List of Functions

Bit	Function	1	0
0	not used	-	-
1	Stopping of drive of the Delivery Cooling FAN	Stopped	Not stopped
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-38

Detailed Discussions of Bit 1

When "1" is set, the drive of the Delivery Cooling FAN is stopped.

This stops the airflow to the front of the product, which can reduce the spread of odor to the front.

Instead, the ability to cool down delivered paper decreases, which causes delivery adhesion more likely to occur.

Default: 0

SSSW-SW14

List of Functions

Bit	Function	1	0
0	Transfer bias pressure reduction mode	Enable	Disable
1	not used	–	–
2	Black belt addition mode	Enable	Disable
3	Post-rotation reduction mode	Enable	Disable
4	Flicker reduction mode	Enable	Disable
5	not used	–	–
6	not used	–	–
7	not used	–	–

T-5-39

Detailed Discussions of Bit 0

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

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

Detailed Discussions of Bit 2

Select whether to enable or disable black belt addition mode. If the user uses paper that causes

fixed toner on paper to be fused and adhered to drum, selecting "Yes" will clean the drum by forming a black band on the drum surface during the reverse rotation which is performed after printing on 50 sheets.

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

Detailed Discussions of Bit 3
Select whether to enable or disable post-rotation reduction mode. Selecting "Enable" will reduce the noise caused by the polygon motor by stopping the motor immediately after post-rotation.

Detailed Discussions of Bit 4
Select whether to enable or disable flicker reduction mode. Select "Enable" and enter a count to modify fusing temperature control to cancel fluorescent flicking during printing.

CAUTION:
Implementation of this mode would degrade the throughput.

SSSW-SW15

List of Functions

Bit	Function	1	0
0	not used	-	-
1	Interruption of staple job when there is no staple	Interrupted	Printing continued
2	not used	-	-
3	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-
7	not used	-	-

T-5-40

Detailed Discussions of Bit 1
The operation when there is no staple during staple job processing can be set.

List of Functions

053: Margin adjustment at the leading edge of the copy

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

054: Margin adjustment at the trailing edge of the copy

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

055: Margin adjustment at the right edge of the copy

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

056: Margin adjustment at the left edge of the copy

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

058: Adjustment of the registration loop volume (Manual feed tray)

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

059: Adjustment of the registration loop volume. (Cassette)

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

061:Adjustment of the registration loop volume. (Duplex unit)

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

062:Temperature adjustment UP/DOWN mode. (For plain paper)

The temperature adjustment offset relative to the target fixing temperature of plain paper can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.
Plain paper: Plain paper mode, thin paper mode, S thin paper mode, OHP mode

0 - 2: +15˚C
3 - 11: +12 to -15˚C (in steps of 3˚C)
12- 14: -15˚C

063:Temperature adjustment UP/DOWN mode. (For rough paper)

The temperature adjustment offset relative to the target fixing temperature of thick paper can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.
Thick paper: Thick paper mode, thick paper H mode, bond mode

0 - 2: +15˚C
3 - 11: +12 to -15˚C (in steps of 3˚C)
12 - 14: -15˚C

064:Mode for preventing the temperature rise of the end

User this parameter to reduce the frequency of entering the throughput down mode, suppress edge temperature rise, or prevent soiling due to the high temperature offset.
Add/subtract the threshold of the difference in detection temperature between the sub thermistor 1 (2) that starts the full speed operation of the end cooling fan and the sub thermistor 1 (2) that starts the down sequence to/from default threshold temperature.
0 - 4: +20 to -20˚C (in steps of 10˚C)

065:Mode for reducing sand image

Set when sand image *1 has occurred on the print image.
Restraining the scatter of the toner by increasing the electric current of the AC electrification; the sand image could be reduced.

Sand image *1: Multiple black dots and white dots appear on half tone. Or multiple black dots appear on white background.
0: Normal.
1 to 3: Reducing mode. (Same operation to set 1 to 3)
2: Make the print density lower. Set the initial rotation time for fixing to 3 seconds. Does not do it if the initial rotation elongation time has been set to 3 seconds or longer in another service mode.

066:Temperature/ Humidity sensor fixed mode

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

0: Normal.
1: Fixed environment of LL. (Temperature of 18 deg C and humidity of 20%)
2. Fixed environment of NN. (Temperature of 18-28 deg C and humidity of 20-75%)
3. Fixed environment of HH. (Temperature of 28 deg C and humidity of 80%)

134: Laser light intensity adjustment (normal speed)

Use this mode when reproductivity of thin lines is poor or a problem occurs to laser power (light intensity).

Initial value: 212 set as a central value
To increase (strengthen) the light intensity, set the value larger than the initial value.
To decrease (weaken) the light intensity, set the value smaller than the initial value.

Possible setting range
Initial value: 0 to 255 (actual effective range is 138 to 255) with 212 set as a central value

135: Laser light intensity adjustment (low speed)

Use this mode when reproductivity of thin lines is poor or a problem occurs to laser power (light intensity).
Initial value: 183 set as a central value
To increase (strengthen) the light intensity, set the value larger than the initial value.
To decrease (weaken) the light intensity, set the value smaller than the initial value.

Possible setting range
Initial value: 0 to 255 (actual effective range is 138 to 255) with low speed 183 set as a central value

136: Adjustment of the point to start writing in laser's main scanning direction (A)

When replacing the laser unit, enter the unit-specific delay value shown on the label affixed to the unit.

145: Adjustment of the magnification to write image in laser's main scanning direction (A-B)

Magnification between lasers A and B.
Amount of adjustment of the magnification of laser B of the laser scanner unit. Adjust the magnification of laser B with reference to that of laser A. If the input value is inappropriate, the image quality is degraded.

146: Adjustment of the magnification to write image in laser's main scanning direction (A-C)

Magnification between lasers A and C.
Amount of adjustment of the magnification of laser C of the laser scanner unit. Adjust the magnification of laser C with reference to that of laser A. If the input value is inappropriate, the image quality is degraded.

147: Adjustment of the magnification to write image in laser's main scanning direction (A-D)

Magnification between lasers A and D.
Amount of adjustment of the magnification of laser D of the laser scanner unit. Adjust the magnification of laser D with reference to that of laser A. If the input value is inappropriate, the image quality is degraded.

148: Adjustment of the point to start writing in main scanning direction (A-B)

When replacing the laser, enter the delay value (laser main scanning adjustment).

149: Adjustment of the point to start writing in main scanning direction (A-C)

When replacing the laser, enter the delay value (laser main scanning adjustment).

150: Adjustment of the point to start writing in main scanning direction (A-D)

When replacing the laser, enter the delay value (laser main scanning adjustment).

151: Developing bias offset for DC

Enter the developing bias offset for DC.
When a fault in image occurs (foggy image or light density), enter the developing bias offset for DC. Increasing the value makes the image darker.

152: Primary charge offset for DC

Enter the value to adjust the primary offset 1 for DC.

153: Primary charge offset for AC

Enter the value to adjust the primary offset 1 for AC.

154: Adjustment of the registration loop volume (Thick paper)

Incrementing the value by 1 feeds the paper 0.1 mm further and increases the registration loop volume.

155: Adjustment of the registration loop volume (Special paper)

Incrementing the value by 1 feeds the paper 0.1 mm further and increases the registration loop volume.

156: Adjustment of the registration loop volume (Envelop cassette pickup)

Incrementing the value by 1 feeds the paper 0.1 mm further and increases the registration loop volume.

157: Pickup timing adjustment

This setting is applied to the pickup permission temperature at job start irrespective of the fixing mode. The pickup permission temperature is raised or lowered from the default temperature according to the setting value.
Use this parameter to reduce the FCOT or warm-up time.

0 - 2: +15˚C
3 - 11: +12 to -15˚C (in steps of 3˚C)
12 - 14: -15˚C

165: Fixing auto cleaning frequency setting

Use this parameter to increase the fixing auto cleaning frequency. Incrementing the value increases the fixing auto cleaning frequency.
0: Not cleaned.
1: Cleaning control temperature: 225˚C, Cleaning time: 60 sec, Cleaning interval: 500 sheets
2: Cleaning control temperature: 225˚C, Cleaning time: 60 sec, Cleaning interval: 200 sheets
3: Cleaning control temperature: 225˚C, Cleaning time: 60 sec, Cleaning interval: 100 sheets

166: Temperature adjustment UP/DOWN mode (Plain paper, manual feed tray)

The temperature adjustment offset relative to the target fixing temperature of plain paper fed from the manual feed paper can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.

Plain paper: Plain paper mode, thin paper mode, S thin paper mode, OHP mode

0 - 2: +15˚C
3 - 11: +12 to -15˚C (in steps of 3˚C)
12 - 14: -15˚C

170: Charging frequency setting

For a user in an environment where image smear is less likely to occur, frequency can be switched to enable the operation for better image quality.
When "1" is set, it becomes image quality priority mode. However, image smear is likely to occur.

Default: 0

173: Temperature adjustment UP/DOWN mode (2nd page of double-sided printing)

The temperature adjustment offset relative to the target fixing temperature of the second page of double-sided printing can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.
Plain paper: Plain paper mode, thin paper mode, S thin paper mode, OHP mode

0 - 2: +15˚C
3 - 11: +12 to -15˚C (in steps of 3˚C)
12 - 14: -15˚C

174: Reduction in FCOT

Set the pickup permission temperature (temperature adjustment for the fist page of printing) to -40˚C before fixing.
Use this parameter to reduce the FCOT.

0:OFF
1:ON

178: Setting of fixing auto cleaning

You can set whether to execute the fixing auto cleaning.

179: Temperature adjustment UP/DOWN mode (Envelop/Postcard)

The temperature adjustment offset relative to the target fixing temperature of the envelope/postcard can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.
Envelop/postcard: Postcard mode, S postcard mode, Envelop mode

0 - 2:+15˚C
3 - 11:+12 to -15˚C (in steps of 3˚C)
12 - 14:-15˚C

180: Temperature adjustment UP/DOWN mode (Special mode N)

The temperature adjustment offset relative to the target temperature of fixing in special mode N can be changed in steps of 3˚C. Use this parameter when the fixing performance is low or when it is necessary to prevent the paper from slipping or being curled.

0 - 2:+15˚C
3 - 11:12 to -15˚C (in steps of 3˚C)
12 - 14:-15˚C

List of Functions(PRINT CST)

#CST> CAS1> CAS1-U1, #CST> CAS2> CAS1-U1, #CST> CAS3> CAS1-U1, #CST> CAS4> CAS1-U1

Setting of paper name used for paper size group 'U1'

When setting the following special size paper for U1, U2, U3, and U4 which are specified for the paper name to be used in paper size group, it becomes possible to treat the paper size in U1, U2, U3, and U4 as special size paper in universal size cassettes.
Settings 26: OFI, 37: M-OFI, 24: FLSP, 25: A-FLSP, 42: FA4, 34: G-LGL 0: default

#CST> CAS1> CAS1-U2, #CST> CAS2> CAS1-U2, #CST> CAS3> CAS1-U2, #CST> CAS4> CAS1-U2

Setting of paper name used for paper size group 'U2'

When setting the following special size paper for U1, U2, U3, and U4 which are specified for the paper name to be used in paper size group, it becomes possible to treat the paper size in U1, U2, U3, and U4 as special size paper in universal size cassettes.
Settings 32: G-LTR-R, 23: K-LGL-R, 0: default

#CST> CAS1> CAS1-U4, #CST> CAS2> CAS1-U4, #CST> CAS3> CAS1-U4, #CST> CAS4> CAS1-U4

Setting of paper name used for paper size group 'U4'

When setting the following special size paper for U1, U2, U3, and U4 which are specified for the paper name to be used in paper size group, it becomes possible to treat the paper size in U1, U2, U3, and U4 as special size paper in universal size cassettes.
Settings 28: B-OFI, 0: default

#NETWORK

Configuration

Item	SW No.	Bit	Setting ranges	Default value	Description
#NETWORK SW	1	-	-	-	Not used
	2	SEND 1			
		0-2	-	-	Not used
		3	0 or 1	0 (Disabled)	Flag to enable mail header printing When "1" is set, mail header is added to the print data at the time of e-mail reception. 0: Disabled, 1: Enabled
		4-7	-	-	Not used
	3	SEND 2			
		0-2	-	-	Not used
		3	0 or 1	1 (Not rotated)	Rotation transmission "No" flag 0: Rotated, 1: Not rotated
		4-6	-	-	Not used
		7	0 or 1	0 (Not deleted)	Deletion of an error e-mail from the server at the time of POP reception 0: Not deleted, 1: Deleted
	4	SEND 3			
		0	0 or 1	1 (Enabled)	Flag to enable SMTP authentication algorithm (CRAM-MD5) 0: Disabled, 1: Enabled
		1	0 or 1	1 (Enabled)	Flag to enable SMTP authentication algorithm (PLAIN) 0: Disabled, 1: Enabled
		2	0 or 1	1 (Enabled)	Flag to enable SMTP authentication algorithm (LOGIN) 0: Disabled, 1: Enabled
		3-7	-	-	Not used
	5	MIB/SNMP			
		0	0 or 1	00 (Enabled to obtain all the billing counter values)	Billing counter MIB function flag bit0=0, bit1=0: Enabled to obtain all the billing counter values bit0=0, bit1=1: Enabled to obtain only the billing counter values displayed on UI bit0=1, bit1=0: Disabled to obtain all the billing counter values
		1	0 or 1		
		2	0 or 1	00 (RW)	SNMP (canon_admin) access rights bit2=0, bit3=0: RW bit2=0, bit3=1: RO bit2=1, bit3=0: Disabled bit2=1, bit3=1: OFF
		3	0 or 1		
		4	0 or 1	00 (RW)	SNMP (canon_user) access rights bit4=0, bit5=0: RW bit4=0, bit5=1: RO bit4=1, bit5=0: Disabled bit4=1, bit5=1: OFF
		5	0 or 1		
		6-7	-	-	Not used
	6-7	-	-	-	Not used
	8	SEND 4			
		0	0 or 1	1 (Rotation specifications of fax)	Rotation specifications of I-Fax transmission 0: Comply with rotation specifications of e-mail 1: Comply with rotation specifications of fax
		1-7	-	-	Not used
	9	-	-	-	Not used
	10	Network Configuration			
		0-2	-	-	Not used
		3	0 or 1	0 (Enabled)	Acquisition of host name by DHCP (Option 12) 0: Enabled, 1: Disabled
		4	0 or 1	0 (Enabled)	Registration of host name by DHCP (Option 81) 0: Enabled, 1: Disabled
		5-7	-	-	Not used
	11	Network Configuration (IPv6)			
		0	0 or 1	0 (IPv6)	DNS inquiry priority transport 0: IPv6, 1: IPv4
		1-7	-	-	Not used
	12	SEND 6 (Destination specified transmission)			
		0	0 or 1	000 (TIFF)	B/W image format at the time of destination specified transmission 000 (all values are "0"): TIFF 001 (only the value of bit2 is "1"): PDF
		1	0 or 1		
		2	0 or 1		
		3	0 or 1	000 (JPEG)	Color image format at the time of destination specified transmission 000 (all values are "0"): JPEG 001 (only the value of bit5 is "1"): PDF
		4	0 or 1		
		5	0 or 1		
		6-7	-	-	Not used
	13	SEND 7 (Re-transfer after transfer error)			
		0	0 or 1	000 (TIFF)	B/W image format when performing transfer again after transfer error 000 (all values are "0"): TIFF 001 (only the value of bit2 is "1"): PDF
		1	0 or 1		
		2	0 or 1		
		3	0 or 1	000 (JPEG)	Color image format when performing transfer again after transfer error 000 (all values are "0"): JPEG 001 (only the value of bit5 is "1"): PDF
		4	0 or 1		
		5	0 or 1		
		6-7	-	-	Not used
	14-40	-	-	-	Not used

Item	SW No.	Bit	Setting ranges	Default value	Description
#NETWORK SW	41	Network debug switch			
		0	-	-	Not used
		1	0 or 1	0 (Hour)	NTP polling interval When "1" is set, the unit of NTP polling time set on UI is handled as minute. 0: Hour, 1: Minute
		2-7	-	-	Not used
	42-50	-	-	-	Not used

T-5-41

Item	No.	Setting range	Default value	Description
#NETWORK NUMERIC	1-7	-	-	Not used
	8	0-255	0	Number of auto line feeds for text To set the number of bytes for auto line feed when sending data with no line feed via e-mail. 0: 60 bytes 1 to 19: 20 bytes 20 and above: "setting value - 2" bytes
	9-10	-	-	Not used
	11	0-65535	0	To set the time from after POP before SMTP authentication to data transmission. (Unit: 100msec) When the setting value is "0", 300msec is set.
	12	0-65535	600	To set the termination timer when there is no reception data at the time of POP reception/SMTP reception. (Unit: sec)
	13-29	-	-	Not used
	30	0-65535	80	To set wait time when buffer failed to be obtained with network print. (Unit: msec)
	31	0-65535	1000	To set the e-mail reception interval with POP when there are 2 or more e-mails in the mail server.(Unit: msec)
	32-33	-	-	Not used
	34	0, 10-120	0	To set the timeout value at IEEE802.1X authentication. (Unit: sec) When the setting value is "0", 30msec is set.
	35-50	-	-	Not used

T-5-42

Confirmation of contents of CA certificate

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

#CODEC

Configuration

Item	No.	Default	Setting range	Description
#CODEC SW	SW01- SW09			Not used
#CODEC NUMERIC	01: - 05:			Not used
	06:	2	0-3	Control of attribute flag addition function at reception and printing of color JPEG or E-mail image
	07:	4	1-7	Adjustment of black color recognition level at black text processing
	08: - 50:			Not used

T-5-43

Details

06: Control of attribute flag addition function at reception and printing of color JPEG or E-mail image

Set the type of the attribute flag to be added at reception of a color JPEG or E-mail image.

0: For PDL_text mode

1: For PDL_photo mode

2: For scan_text mode

3: For scan_photo mode

07: Adjustment of black color recognition level at black text processing

Adjust the black color recognition level at black text processing. To improve chanses that the text color is judged as black, increase the setting value.

#SYSTEM

Configuration

Item	No.	Default	Description
#SYSTEM SW	SW01		Not used
	SW02	00000000	Import/export via USB
	SW03	00000000	Display of daylight saving time
	SW04		Not used
	SW05	11001000	Inhibition of export of password in address book
	SW06- SW08		Not used
	SW9	00000000	Forced invalidity of uniFLOW
	SW10	00000000	PS data protocol menu display/nondisplay Extra length setting
	SW11 - SW50		Not used

T-5-44

Item	No.	Default	Setting range	Description
#SYSTEM NUMERIC	01: - 19:			Not used
	20:	0	0: Display 1: Hide	Display setting of setting navigation (other settings)
	21: - 38:			Not used
	39:	4	0-5	Change of default of LDAP advanced search condition
	40:			Not used
	41:	0	0-60	PS mode 1 (8bit)
	42:	0	0-60	PS mode 2 (8bit)
	43: - 56:			Not used
	57:	0	0-4	Setting of paper size group
	58: - 100:			Not used

T-5-45

Details of Bit Switch

SW02

List of Functions

Bit	Function	1	0
0		-	-
1		-	-
2		-	-
3		-	-
4		-	-
5		-	-
6	To import/export via USB	Startup in USB import/export mode	Normal startup
7		-	-

T-5-46

Detailed Discussions of Bit 6

When "1" is set, startup is executed in USB import/export mode.

SW03

List of Functions

Bit	Function	1	0
0	To display daylight saving time.	Daylight saving time	Normal
1		-	-
2		-	-
3		-	-
4		-	-
5		-	-
6		-	-
7		-	-

T-5-47

Detailed Discussions of Bit 0

Display whether it is on daylight saving time.

Default: 0

The value is set to 1 when the following conditions are satisfied:

1. The daylight saving time function is set to ON during valid period of daylight saving time.
2. It falls within the valid period of daylight saving time when the daylight saving time function is ON.

<Setting method of daylight saving time>

The following shows a method to set daylight saving time.

Initial Setting/Registration > Timer Settings > Date/Time Settings > Use daylight saving time: ON

SW05

List of Functions

Bit	Function	1	0
0		-	-
1		-	-
2		-	-
3		-	-
4		-	-
5		-	-
6		-	-
7	Inhibition of export of password in address book	Inhibited	Not inhibited

T-5-48

Detailed Discussions of Bit 7

Select whether to inhibit export of the password in the address book.

SW09

List of Functions

Bit	Function	1	0
0	PS > Display/hide data protocol menu	Displayed	Hide
1	Long length setting	ON	OFF
2	User time setting flag	Set	Not set
3	Forced invalidity of uniFLOW	ON	OFF
4		-	-
5		-	-
6		-	-
7		-	-

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Detailed Discussions of Bit 0

You can select whether to disable export of PWD in the address book.

Default: 0

Detailed Discussions of Bit 1

You can select whether to enable long length setting (to extend the range of user-defined size).

Default: 1

Detailed Discussions of Bit 2

Whether the user made time setting can be checked.

Detailed Discussions of Bit 3

Select whether to set the forced invalidity of uniFLOW.

Default: 0

If turning ON this switch, and turning OFF and then ON the device power while the uniFLOW function is in active state, the uniFLOW function is forcibly deactivated. In addition, when this switch is ON, Activate/Deactivate request from the server is ignored.

SW10

List of Functions

Bit	Function	1	0
0		-	-
1	To set the display of installation NAVI "Setting screen for date and time".	Hidden	Display
2	To set the display of installation NAVI "Registering user telephone number".	Hidden	Display
3	To set the display of installation NAVI "Setting screen for user abbreviation".	Hidden	Display
4	To set the display of installation NAVI "Selection screen on a line type basis".	Hidden	Display
5	To set the display of installation NAVI "Selection screen for reception mode".	Hidden	Display
6	To set the display of installation NAVI "Setting screen for IP address".	Hidden	Display
7		-	-

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Detailed Discussions of Bit 1

When "1" is set, "Setting screen for date and time" of the installation NAVI can be hidden.

Detailed Discussions of Bit 2

When "1" is set, "Registering user telephone number" of the installation NAVI can be hidden.

Detailed Discussions of Bit 3

When "1" is set, "Setting screen for user abbreviation" of the installation NAVI can be hidden.

Detailed Discussions of Bit 4

When "1" is set, "Selection screen on a line type basis" of the installation NAVI can be hidden.

Detailed Discussions of Bit 5

When "1" is set, "Selection screen for reception mode" of the installation NAVI can be hidden.

Detailed Discussions of Bit 6

When "1" is set, "Setting screen for IP address" of the installation NAVI can be hidden.

Details of System Numeric

20: Display setting of installation NAVI (Other settings)

When "1" is set, "Other settings" of the installation NAVI can be hidden.

Default: 0

39: Change of default of LDAP advanced search condition

Change of the default of the LDAP advanced search condition can be set.

0: Includes the next	1: Not include the next	2: Equivalent to the next	3: Not equivalent to the next	4: Starts with the next	5: Finishes with the next

41: PS mode 1(8bit)

The PS mode 1 (8bit) can be set.

42: ePS mode 1(8bit)

The PS mde 2 (8bit) can be set.

57: Setting of paper size group

A paper size group can be set.

1: AB (PAPER_SIZE_GROUP_AB)

2: A (PAPER_SIZE_GROUP_A)

3: INCH (PAPER_SIZE_GROUP_INCH)

4: AB/INCH (PAPER_SIZE_GROUP_AB_INCH)

Initialization takes place when the following service mode is executed:

(CLEAR>ALL, TYPE, SERVICE DATA, TEL & USER DATA)

#ACC

Configuration

The table below gives summary description of the accessories available.

Item1	Item2	Explanation
#ACC	CARD	Card reader installation setting Enter a card number to use. (0 to 9999. One hundred cards are registered with the department ID beginning from the input card number in sequence.) *1:1,000 cards if option ROM is mounted. When a card number is entered, the following kinds of management information are initialized: - Card name (department ID), beginning from the input card number. - Password associated with the card
	CC-SPSW	Control card I/F support setting Set whether to support the control card I/F (CC-V) or not. 0: Do not support. 1: Support.
	COIN	Coin vendor change Set the control card set display appearing on the operator station for vendor use. 0: Control card use 1: Coin vendor use
	CONTROL	Set the PDL printer output control where the control card I/F (CC-V) is supported. 0: Enable printing without a card mounted. 1: Enable printing with a card mounted in position.

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#COUNTER

Counters

This copier is furnished with a maintenance/supplies counter set (DRBL-1), which can be used to gain rough measures of when to replace supplies. The counter set increments by one on counting each sheet.

Maintenance counter list

Item	Counter	Explanation
TOTAL (Total counter)	SERVICE1	Service total counter 1
	SERVICE2	Service total counter 2
	TTL	Total counter
	COPY	Total copy counter
	PDL-PRT	PDL print counter
	FAX-PRT	Fax print counter
	MEDIA-PRT	Media print counter
	RPT-PRT	Report print counter
	2-SIDE	Double-sided copy/print counter
	SCAN	Scan counter
PICK-UP (Paper pickup counter)	C1	Cassette 1 jam counter
	C2	Cassette 2 jam counter
	C3	Cassette 3 jam counter
	C4	Cassette 4 jam counter
	MF	Manual feed tray pickup total counter
	2-SIDE	Double-sided paper pickup total counter
FEEDER (Feeder related counters)	FEED	Feeder pickup total counter
	DFOP-CNT	ADF open/close hinge counter
SORTER (Finisher related counters)	SORT	Finisher sort path counter
	SADDLE	Finisher saddle operation counter
	SDL-STPL	Finisher saddle staple operation counter
JAM (Jam counters)	TTL	Unit total jam count
	FEEDER	Feeder total jam count
	SORTER	Finisher total jam count
	2-SIDE	Duplex unit jam counter
	MF	Manual feed tray jam counter
	C1	Cassette 1 jam counter
	C2	Cassette 2 jam counter
	C3	Cassette 3 jam counter
	C4	Cassette 4 jam counter
MISC (Other required counter)	WST-TNR	Waste toner counter

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Parts counter list

Item	Counter	Explanation	Service life
DRBL-1	TR-ROLL	Transfer roller high-voltage ON count	180,000
	SP-SC_EL	Separation static charge eliminator high-voltage ON count	90,000
	PT-DRM	Photosensitive drum rotation count	90,000
	C1-SP-RL	Cassette 1 separation roller paper pass count	80,000
	C1-FD-RL	Cassette 1 feed roller paper pass count	80,000
	M-PU-RL	Multi-purpose tray pickup roller paper pass count	150,000
	M-SP-PD	Multi-purpose tray separation pad paper pass count	150,000
	FX-UNIT	Fixing assembly paper pass count	160,000
	WST-TNR	Waste toner count	100,000
	OZ-FIL1	Not used	-
DRBL-2	C2-SP-RL	Cassette 2 separation roller paper pass count	80,000
	C2-FD-RL	Cassette 2 feed roller paper pass count	80,000
	C3-SP-RL	Cassette 3 separation roller paper pass count	80,000
	C3-FD-RL	Cassette 3 feed roller paper pass count	80,000
	C4-SP-RL	Cassette 4 separation roller paper pass count	80,000
	C4-FD-RL	Cassette 4 feed roller paper pass count	80,000

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Clearing Counters

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

- Counter clear on parts replacement
  Press the numeric keypad key 0 after displaying the counter for a part just replaced, and the counter will be cleared individually.

#LMS

Configuration

Group	Item	Default	Setting range	Description
INACTIVE	ST-SEND			not used
	TR-SEND			not used
	ST-BRDIM	0	0 - 1	To display installation state of BarDIMM when transfer is disabled.
	TR-BRDIM			The 24 digits of license transfer numbers are displayed.
	ST-ERDS	0	0 - 1	To display installation state of third party expansion function of E-RDS when transfer is disabled.
	TR-ERDS			The 24 digits of license transfer numbers are displayed.
	ST-PCL	0	0 - 1	To display installation state of PCL function when transfer is disabled.
	TR-PCL			The 24 digits of license transfer numbers are displayed.
	ST-EAM			not used
	TR-EAM			not used
	ST-ELA			not used
	TR-ELA			not used
	ST-SPDF	0	0 - 1	To display installation state of transmission function for SEND searchable PDF when transfer is disabled.
	TR-SPDF			The 24 digits of license transfer numbers are displayed.
	ST-PS	0	0 - 1	To display installation state of PS function when transfer is disabled
	TR-PS			The 24 digits of license transfer numbers are displayed.
ERASE	SEND			not used
	BRDIM	0	0 - 1	To display installation state of BarDIMM when non-transfer is disabled.
	ERDS	0	0 - 1	To display installation state of third party expansion function of E-RDS when non-transfer is disabled.
	PCL	0	0 - 1	To display installation state of PCL function when non-transfer is disabled.
	EAM			not used
	ELA			not used
	SPDF	0	0 - 1	To display installation state of transmission function for SEND searchable PDF when non-transfer is disabled.
	PS	0	0 - 1	To display installation state of PS function when non-transfer is disabled

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Outline

1. Validate an optional function which has been installed but has not been validated based on the license key issued by a license issue server (hereinafter called "LMS").

2. Invalidate the function for which a license has been already set up.

Details

1. Validate a license by entering the license issued by LMS via the local UI.

2. The license key issued by LMS cannot be entered via the remote UI.

3. Invalidate a license (Set the function to OFF) via the service mode.

4. Validate a license via the service mode.

5. A license with restriction (with an expiration date, restriction in the number of licenses) is not supported. (Restriction information is not read.)

6. Some optional functions installed are in dependent relationship with each other. For example, when using [Function A], [Function B] should be available. In this case, [Function B] is called a slave option of [Function A]. Installation of the slave option fails when it is found that the master option is not validated as a result of verification of the dependent relationship.

7. Decoding and verifying a license key
   Decode an entered license key and examine the validity of the license information obtained. When an error occurs during verification, the error information is sent back to the local UI, which displays an error message based on the information.Verification errors are assumed to occur in the following cases.
   - When a license is installed in a non-licensed device
   - When an optional function included in the license does not exist in the target device
   - When an optional function included in the license is a slave option and a master option is not validated
   - When an incorrect license key is entered
   - When a license key is illegally altered

Method of confirming license option

Confirmation could be made whether the license option is active or not in the SACTIBAT FUNCTION item by outputting the SPEC REPORT from the service mode.

Output method:

(1) Enter the service mode.
   Push [Additional Functions] Key > push 2, 8 Key > push [Additional Functions] Key.
(2) Push cursors, and display [#REPORT].
   Then press [OK].
(3) Push cursors, and display [#REPORT OUT PUT].
   Then press [OK].
(4) Push cursors, and display [#SPEC LIST].
   Then press [OK]. The 'SPEC REPORT' will be printed out.
(5) Check the items displayed under ACTIBAT FUNCTION in SPEC REPORT.
   ACTIBAT FUNCTION >
   - BW-SEND
   - CL-SEND
   Items for which ON/ON is displayed are validated.

A license option confirmation example

To check the validation of license option, see the SPEC REPORT. The details according to the list shown below.

Item Name	License Name	Status/Optional Setting
Color Universal SEND KIT	BW-SEND	ON/ON
	CL-SEND	ON/ON

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Inactivity of the transmitted license

Inactivity of the transmitted license

Situation of using this service mode

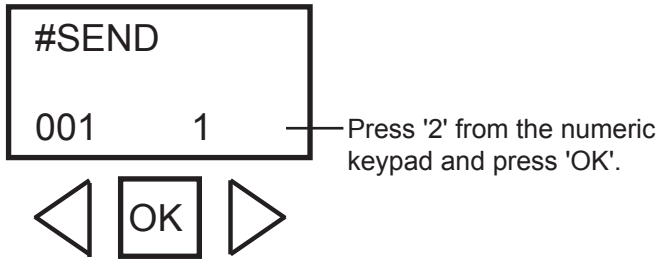
This service mode is used to invalidate a license under the assumption that, when a device is exceptionally replaced with another one due to a trouble (caused by the device), the license is transferred to another device. This operation is called "invalidating transfer of a license". Since it is possible to select the same device as a destination of the transfer, this service mode can be also used to invalidate a function on a temporary basis. Careful attention, however, is required because, if you invalidate a function by mistake, you need to contact a sales company for recovery.

Take utmost precaution when inactivating the license

When invalidating transfer of a license, it is necessary to invalidate the license by entering the service mode and issue a function invalidation certificate key, which certifies that the license has been invalidated. This operation can be executed for each optional function. At the point when a function invalidation certificate key is issued, the function is invalidated and becomes unavailable. When you report this function invalidation certificate key, the serial number of the transfer origination device, the serial number of the transfer destination device, and the reason why you need to perform the transfer to a sales company, a new license key is issued for installation for the transfer destination device. Be sure to write down the new license key when you receive it and, when it is registered in the transfer destination device successfully, inform the user of the new license key and explain him/her to keep it at hand.

Operation Procedure

(1) Enter the service mode and display the following service mode. (Press one key at once to enter the service mode in the order of "Main, 2, 8, Main".)
When you have entered the service mode, use the left and right arrow keys to display items,and press the OK key to fix the setting.
(2) Display [#LMS].
(3) Press the OK key and display [#LMS INACTIVE].
(4) Display [ST-SEND].
(5) Press the OK key.



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(6) Press 2 using the numeric key and press the OK key.

CAUTION:

The 24 digits of license transfer numbers are displayed, so you take the memo.

Because it cannot maintain the number displaying with the thing of this place limit.

If you do not take the memo, the indication contents are not held when you do OFF of the main power, it is impossible for license transfer.

Even if you push the reset key and clear the indication, the indication is never display again.

License transfer example:

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(7) Turn OFF/ON the power of the main unit.

For Reference:

When a license option is displayed in Procedure (4), 001 1 is displayed. The last "1" shows that the license is validated by license authentication.
After the license is transferred, the last number is changed to "2".
When the option is standard, the last number shows "3" which means disable for license transfer.

Details about the last number:

1: The function is validated.
0: The function is invalidated, or the license is transferred.

(8) When you contact the contact section of the sales company and report a function invalidation certificate key required for license transfer, the serial number of the transfer origination device, and the serial number of the transfer destination device, a new license key that can be registered to the transfer destination device is issued.
(9) Register the new license key to the transfer destination device and make sure that the function is validated.

■ Erasing a License

● Erasing a License

When you invalidate a license option on a temporary basis or when you do not use it for a long period of time, you can invalidate the function by erasing the license.
The license can be validated by registering the license number again.

Procedure to erase a license

You can erase a license by entering the service mode.

Operation Procedure:
(1) Enter the service mode and display the following service mode.
When you have entered the service mode, use the right and left arrow keys to display items,and press the OK key to fix the setting.
(2) Display [#LMS].
(3) Press the OK key and display [#LMS ERASE].
(4) Display [SEND].
(5) Press the OK key.
(6) Turn OFF/ON the power of the main unit.

For Reference:

There is no function to display the license registration numbers in the main unit. Therefore, when there is a possibility to restore the license after erasing it, make sure that a user has written down the license registration number.
When a license option is displayed in Procedure (4), 001 1 is displayed. The last "1" shows that the license is validated by license authentication.
After the license is erased, the last number is changed to "2".

When the option is standard, the last number shows "3" which means disable for license transfer.
Details about the last number:
1: The function is validated.
2: The function is invalidated, or a license is transferred.
3: The function is invalidated, or the license does not exist.

#E-RDS

Configuration

Settings related to e-RDS are described below.

Item	Default	Setting range	Description
E-RDS SWITCH	0	0 or 1	e-RDS OFF/ON setting (0:OFF / 1:ON)When used (ON), the counter information and error information are sent to UGW.Default: 0 (OFF)
RGW-ADDRESS	URL of UGW	Character string length:129byte (including NULL, one-byte codes only)	URL of UGWDefault: URL of actual UGWCharacter string length: 129 bytes (including NULL, one-byte codes only)
RGW-PORT	443	1-65535	Port No. of UGW Setting range: 1 to 65535
CNT-DATE			Setting of the date of sending the counter information to the server (Valid after input of license). Set the start date of the schedule to send the counter information to the server using a third party expansion function of E-RDS. Refer to the user mode date setting. (12 digits: YYYYMMDDHHMM) YYYY: Year MM: Month DD: Day HH: Hour MM: Minute
CNT-INTV	24	1-168 (on a weekly basis)	Setting of the interval of sending the counter information to the server (Valid after input of license). Set the interval of sending the counter information to the server using a third party expansion function of E-RDS.
COM-TEST			Execution of communication test An attempt is made to connect to UGW, judges whether connection is successful, and displays "COM-TEST OK" or "COMTEST NG" as the judgment result.
COM-LOG			Details of communication test result. The log of errors in communication with UGW is displayed. The error information includes the error occurrence time, error code, and details of the error.Maximum log count: 5Error information length: Max. 128 characters (excluding NULL)
SCALLCMP			Repair completion process (call button function) Used when the service personnel has completed the requested repair.

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#REPORT

Configuration

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

Item 1	Item 2	Explanation
#REPORT SW	Not used	-
#REPORT OUTPUT	SERVICE DATA LIST	"Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date)"
	SYSTEM DATA LIST	"Service mode service soft switch output (SSSW, MENU, NUMERIC Param., SPECIAL, NCU, SCAN, PRINT, SYSTEM, ROM, start date) System dump list output"
	SYSTEM DUMP LIST	Transmission count, reception count, record chart count, error count and other outputs
	COUNTER LIST	Counter output
	ERROR LOG LIST	Jam and error history output
	SPEC LIST	Type setting, print speed, memory size, ROM indication, adjustment data and other outputs
	SERVICE LABEL	Not used.
	ERDS COM LOG LIST	Output of communication error log information related to e-RDS
#REPORT NUMERIC	Not used	-

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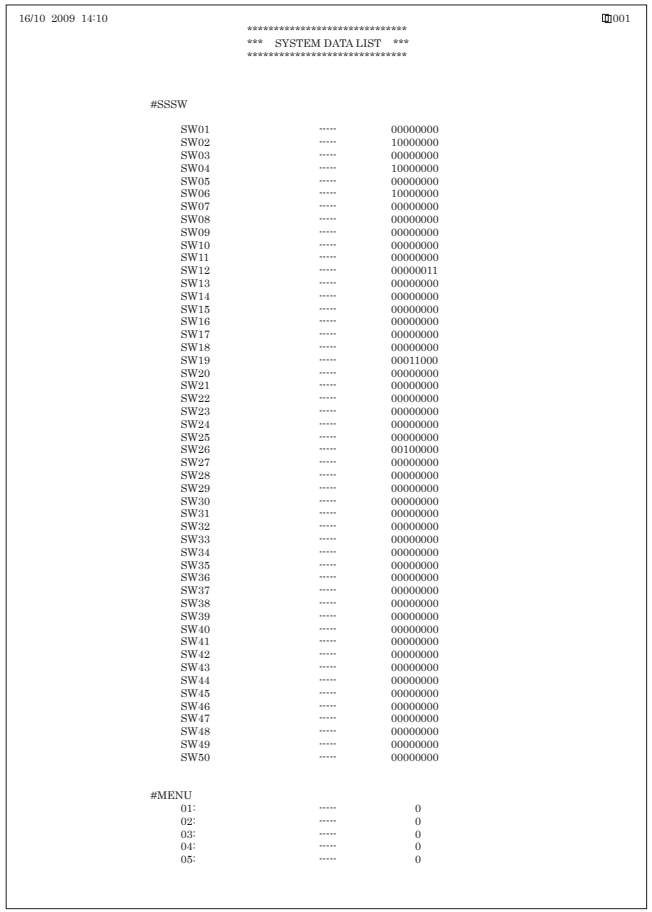
Details

System Data List

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



```
16/10 2009 14:10                                              001

                    ******************************
                    ***  SYSTEM DATA LIST  ***
                    ******************************


#SSSW

        SW01        -----       00000000
        SW02        -----       10000000
        SW03        -----       00000000
        SW04        -----       10000000
        SW05        -----       00000000
        SW06        -----       10000000
        SW07        -----       00000000
        SW08        -----       00000000
        SW09        -----       00000000
        SW10        -----       00000000
        SW11        -----       00000000
        SW12        -----       00000011
        SW13        -----       00000000
        SW14        -----       00000000
        SW15        -----       00000000
        SW16        -----       00000000
        SW17        -----       00000000
        SW18        -----       00000000
        SW19        -----       00011000
        SW20        -----       00000000
        SW21        -----       00000000
        SW22        -----       00000000
        SW23        -----       00000000
        SW24        -----       00000000
        SW25        -----       00000000
        SW26        -----       00100000
        SW27        -----       00000000
        SW28        -----       00000000
        SW29        -----       00000000
        SW30        -----       00000000
        SW31        -----       00000000
        SW32        -----       00000000
        SW33        -----       00000000
        SW34        -----       00000000
        SW35        -----       00000000
        SW36        -----       00000000
        SW37        -----       00000000
        SW38        -----       00000000
        SW39        -----       00000000
        SW40        -----       00000000
        SW41        -----       00000000
        SW42        -----       00000000
        SW43        -----       00000000
        SW44        -----       00000000
        SW45        -----       00000000
        SW46        -----       00000000
        SW47        -----       00000000
        SW48        -----       00000000
        SW49        -----       00000000
        SW50        -----       00000000


#MENU
        01:         -----       0
        02:         -----       0
        03:         -----       0
        04:         -----       0
        05:         -----       0
```

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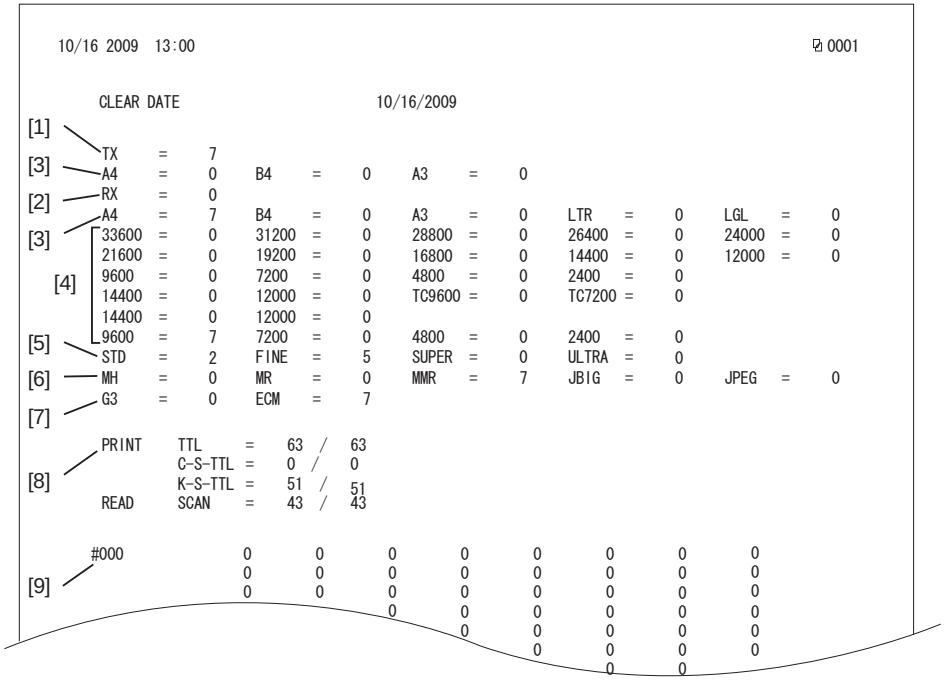
System Dump List

Use it to check the history of communications, both successful and error.



```
10/16 2009  13:00                                             0001

      CLEAR DATE                    10/16/2009
[1]
      TX    =   7
[3]   A4    =   0   B4    =   0   A3    =   0
[2]   RX    =   0
[3]   A4    =   7   B4    =   0   A3    =   0   LTR   =   0   LGL   =   0
      33600 =   0   31200 =   0   28800 =   0   26400 =   0   24000 =   0
      21600 =   0   19200 =   0   16800 =   0   14400 =   0   12000 =   0
[4]   9600  =   0   7200  =   0   4800  =   0   2400  =   0
      14400 =   0   12000 =   0   TC9600=   0   TC7200=   0
      14400 =   0   12000 =   0
      9600  =   7   7200  =   0   4800  =   0   2400  =   0
[5]   STD   =   2   FINE  =   5   SUPER =   0   ULTRA =   0
[6]   MH    =   0   MR    =   0   MMR   =   7   JBIG  =   0   JPEG  =   0
[7]   G3    =   0   ECM   =   7

      PRINT   TTL     =   63 /  63
              C-S-TTL =   0  /  0
[8]           K-S-TTL =   51 /  51
      READ    SCAN    =   43 /  43

      #000          0   0   0   0   0   0   0   0
[9]                 0   0   0   0   0   0   0   0
                    0   0   0   0   0   0   0   0
                            0   0   0   0   0   0
                            0   0   0   0   0   0
                                0   0   0   0   0
                                0   0   0   0
```

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[1]: TX, number of total pages transmission.
[2]: Total number of pages transmitted/received according to original size.
[3]: RX, number of total pages reception.
[4]: Total number of pages transmitted and received for each modem speed.
[5]: Total number of pages transmitted/received in connection with different modem speeds (Standard, Fine, Super Fine, Ultra Fine).
[6]: Total number of pages transmitted and received for each coding method.
[7]: Total number of pages transmitted and received in each mode .
[8]: Total number of pages printed/scanned.
[9]: Total number of occurrences for error code .

- Indication sample of "[9]: Total number of occurrences for error code"

#280	1	7	3	…
	↓	↓	↓	
	a	b	c	…

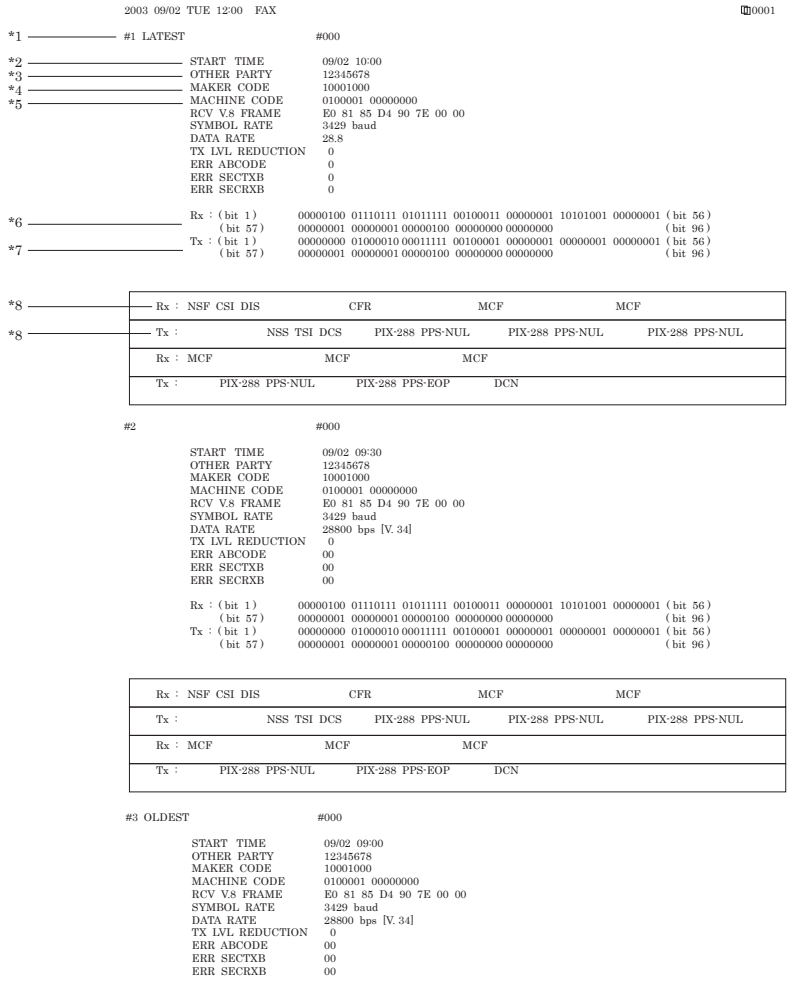
a: number of #280 error

b. number of #281 error

c. number of #282 error

The following numbers obey the similar rule.

It provides error information on the 3 most recent communications.



F-5-8

*1: service error code.

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

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

*4: MAKER CODE, manufacturer code.

*5: MACHINE CODE, model code.

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

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

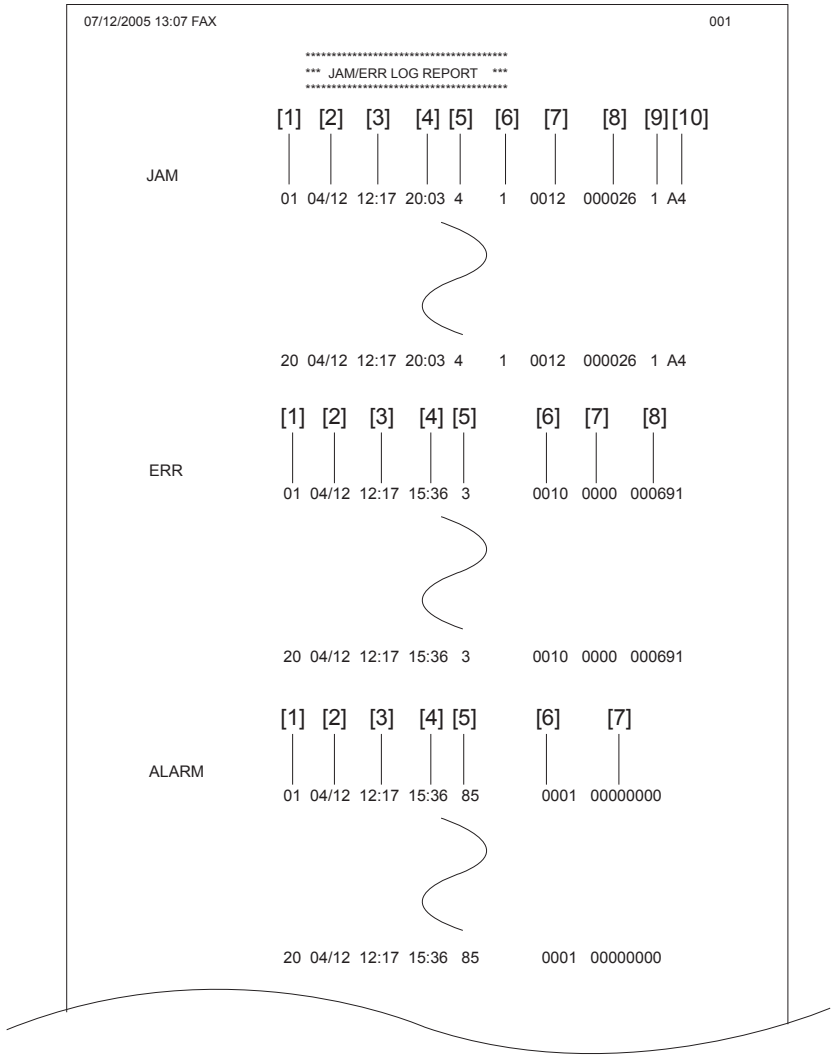
*8: RX, procedural signal received; TX, procedural signal transmitted.

Counter List

Explanation: Maintenance/supplies counter output.

(For more detailed information about the maintenance/supplies counter output, refer to "#COUNTER"(page 5-42).)

Error Log List



F-5-9

Jam history description (JAM)

	Item	Explanation
[1]	Number	The larger the number of a jam, the more recently it has occurred.
[2]	Jam date	Date of jam occurrence
[3]	Jam time	
[4]	Jam recovery time	
[5]	Location	3: Host machine, 4: ADF, 5: Finisher
[6]	Occurrence category	0: Host machine, 1: ADF, 2: Finisher
[7]	Jam code	
[8]	Total counter display	
[9]	Pickup stage position	0: Manual feed tray, 1: Cassette 1, 2: Cassette 2, 3: Cassette 3, 4: Cassette 4, 7: Duplex
[10]	Paper size	

T-5-58

Error history description (ERR)

	Item	Explanation
[1]	Number	The larger the number of an error, the more recently it has occurred.
[2]	Error date	Date of error occurrence
[3]	Error time	
[4]	Error recovery time	
[5]	Location	3: Main unit, 5: Finisher
[6]	Error code	Error code (4-digit code)
[7]	Detail code	Detail code of the error code
[8]	Total counter display	

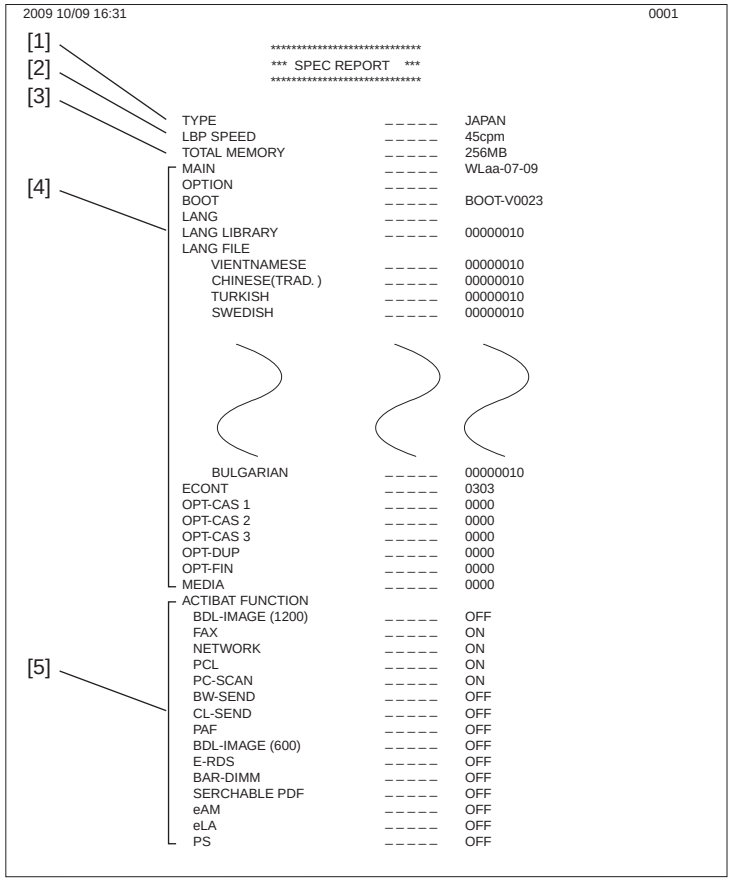
T-5-59

Alarm history description(ALARM)

	Item	Explanation
[1]	Number	The larger the number of a alarm, the more recently it has occurred.
[2]	Alarm date	Date of alarm occurrence
[3]	Alarm time	
[4]	Alarm recovery time	
[5]	Location	
[6]	Alarm code	Alarm code (4-digit code)
[7]	Detail code	Detail code of the alarm code

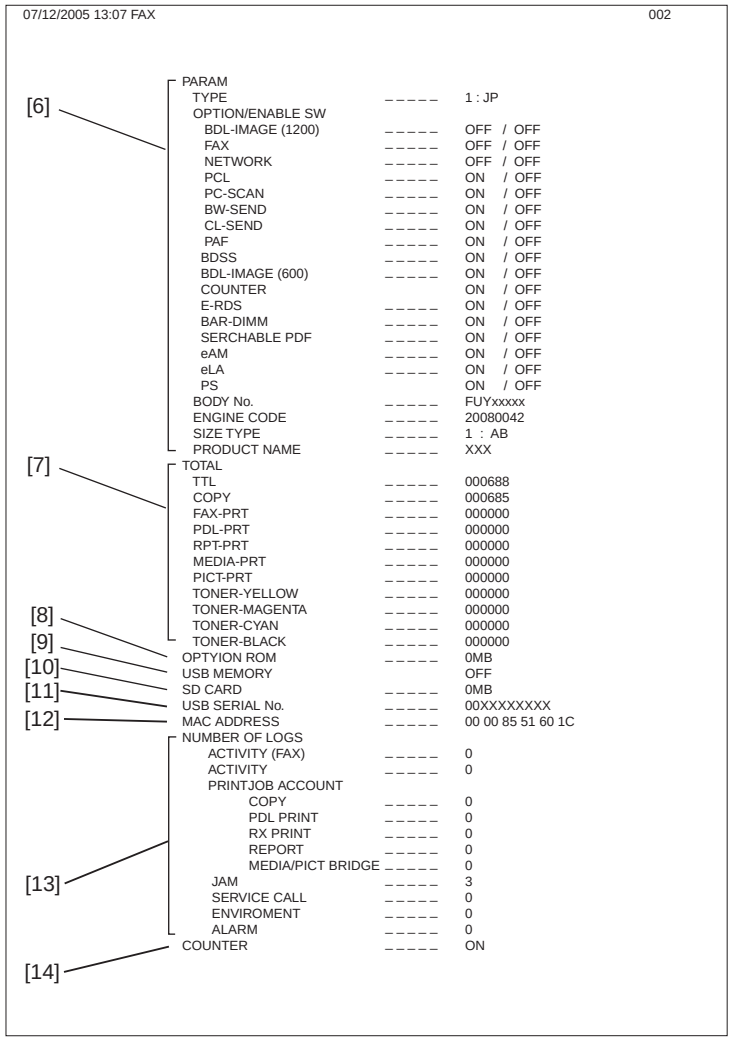
T-5-60

Spec List



F-5-10

[1] Type setting
[2] Print speed
[3] Memory size
[4] ROM version (MAIN/BOOT/LANG*1(language liblary/ language file version)ECONT/option cassette/duplex unit/finisher)
[5] Activation function ON/OFF



F-5-11

[6] Not used
[7] Total counter (TOTAL/COPY/FAX/ PDL/REPORT record counts)
[8] Option ROM availability
[9] USB memory availability
[10] Not used
[11] USB serial number
[12] MAC address
[13] output the number of histories (communication history, copy/print/report/JOB history of the reception print, jam history, E code history, humidity log)
[14] Counter ON/OFF

#DOWNLOAD

Download

The following parts of this unit can be upgraded by executing download mode using the service support tool (UST)

Main unit
ROM mounted on the main controller PCB (BOOT+PROGRAM)
ROM mounted on the DC controller PCB (DCON)

Accessory
ROM mounted on the finisher controller PCB(FIN_CON)

#CLEAR

Configuration

Group	Item	Description
TEL & USER DATA		Clears all user-registered and -set areas of telephone registration data and user data. (Telephone registration refers to the registration of codes on one-touch dialing, abbreviated dialing, and group dialing.)
SERVICE DATA		Clears theservice data. User data is not cleared.
COUNTER		Clears the maintenance counter, parts counter and mode-specific counters. Initializes the counter (numerator) in the system dump list.
SOFT-CNT		Not used
TYPE		Initializes user data and service data to suit specified destination settings.
HIST	ACTIVITY	Initializes the activity report
	ACCOUNT	Clears print histories.
	JAM	Clears the jam history.
	ERR	Clear the error (error code) history.
	ALARM	Clears the alarm history.
	ENVIROMENT	Initializes the enviroment log data.
CARD		Clears department management information held in the controller before the card reader is demounted.
ERR	E719	Clears card reader errors.
PWD		Clears the system administrator's password.
FILE SYSTEM		Not used
FORMAT	USB MEMORY	Format the USB memory.
	LICENSE DRIVE	Clears the drive for license file.
FMT-SD	512	Format the 512MB SD card.
	1024	Format the 1204MB SD card.
	2048	Format the 2048MB SD card.
CA-KEY		Initializes an installed CA certification. (Displayed only after activation of the e-RDS function.)
ERDS-DAT		The settings related to e-RDS are cleared to the factory settings. (Displayed only after activation of the e-RDS function.)
DEPT_USER_ CLEAR		Turns off the department-based ID management and user management functions.
SYSTEM_ INFO_CLEAR		Clears the system management identification number.
ENGINE	ERRCLR	Clears the engine errors.
	BKRAMCLR	Clears the engine backup RAM.
	TNRINST	Supplies toner from the toner cartridge to the developing assembly.
TONER-INSTALLED	SET	Cancels the operation to clear toner supply and toner stirring performed at installation. Use this item when canceling the below CLEAR operation after executing it.
	CLEAR	Clears toner supply and toner stirring performed at installation. Toner supply and toner stirring are performed when the power is turned ON next time. Do not use it in the normal operation since toner scattering inside the machine may occur when it is used 5 times or more.
ALL		Clears user and service data (except for some scan parameters and print parameters), and the counter setting/registration data in the system dump list, except for the print count.

T-5-61

#DISPLAY

Configuration

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

Group	Item	Description
DISPLAY	ERR	The E code and detail code of the current system error are displayed. (Multiple codes can be displayed with the left and right buttons.) <Display example> SYSTEM ERROR xxx: Eyyy-zzzz Example) 001:E602-1105 xxx: History number yyy: E Code zzzz: Detail code
	JAM	The current JAM code is displayed. (Multiple JAM codes can be displayed with the left and right buttons.) <Display example> JAM ERROR xxx:y-z-vvvv-wwww xxx: History number y: Description of position (3: Main unit (including the pickup assembly), 4: ADF, 5: Finisher) z: Cassette level (0: Manual feed tray, 1: Cassette 1, 2: Cassette 2, 3; Cassette 3,4: Cassette 4, 7: Double-sided) vvvv: JAM code wwww: paper size
	SPDTYPE	Display of engine speed type on controller PCB <Display example> SPDTYPE (Line 1) 45cpm (Line 2)

T-5-62

#ROM

Configuration

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

Group	Item	Description
ROM	MAIN (Bootable)	Displays the version number of the PROGRAM ROM mounted on the main controller PCB.
	MAIN2 (Boot)	Displays the version of the ROM (BOOT) mounted on the main controller PCB.
	OPROM	Not used
	ECONT	Displays the version number of the ROM mounted on the DC controller PCB.
	OPTION CAS1	Not used
	OPTION CAS2	Not used
	FINISHER	Displays the version number of the Staple finisher
	READER	Not used

T-5-63

#TEST MODE

Outline

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

1. D-RAM test <(1) D-RAM TEST>
Checks to see if data can be correctly written to and read from D-RAM.
2. PG output <(3) PG>
Used to generate service test patterns.
3. MODEM test <(4) MODEM TEST>
Performs relay actuation, modem DTMF and tonal signal transmission/reception tests.
4. FUNCTION test <(6) FUNCTION TEST>
Used to verify the operations of microswitches, sensors, speakers and ADF functions.

Configuration

Numerals enclosed in parentheses denote a numeric keypad key to be pressed each.

Group	subgroup	Item 1	Item2	Item3	Explanation
TEST MODE [1] - [9]					
(1) DRAM [1] - [2]					D-RAM data check
	(1) D-RAM TEST				Write/read check
	(2) D-RAM TEST				Read check
(3) PG					
	SELECT NO.01				Grid
	SELECT NO.02				Halftone
	SELECT NO.03				Solid black output
	SELECT NO.04				Solid white output
	SELECT NO.05				---(For R&D)
	SELECT NO.06				4dot-6space (vertical)
	SELECT NO.07				dot-6space (horizontal)
	SELECT NO.08				---(For R&D)
	SELECT NO.09				---(For R&D)
(4) MODEM TEST [1] - [9]					
	(1) RELAY TEST [1] - [2]				
		(1) RELAY TEST 1			NCU relay (and switch) ON/OFF test
		(2) RELAY TEST 2			230 V common NCU test
	(2) FREQ TEST [0] - [6]				Frequency test
		(0) FREQ TEST 462Hz			
		(1) FREQ TEST 1100Hz			
		(2) FREQ TEST 1300Hz			
		(3) FREQ TEST 1500Hz			
		(4) FREQ TSST 1650Hz			
		(5) FREQ TEST 1850Hz			
		(6) FREQ TEST 2100Hz			
	(4) G3 SIGNAL TX TEST [0] - [8]				G3 signal transmission test
		(0) G3 SIGNAL TX TEST 300bps			
		(1) G3 SIGNAL TX TEST 2400bps			
		(2) G3 SIGNAL TX TEST 4800bps			
		(3) G3 SIGNAL TX TEST 7200bps			
		(4) G3 SIGNAL TX TEST 9600bps			
		(5) G3 SIGNAL TX TEST TC7200bps			
		(6) G3 SIGNAL TX TEST TC9600bps			
		(7) G3 SIGNAL TX TEST 12000bps			
		(8) G3 SIGNAL TX TEST 14400bps			
	(5) DTMF TEST [0] - [9], * , #				DTMF transmission test
		(0) G3 SIGNAL TX TEST 300bps			
		(1) G3 SIGNAL TX TEST 2400bps			
		(2) G3 SIGNAL TX TEST 4800bps			
		(3) G3 SIGNAL TX TEST 7200bps			
		(4) G3 SIGNAL TX TEST 9600bps			
		(5) G3 SIGNAL TX TEST TC7200bps			
		(6) G3 SIGNAL TX TEST TC9600bps			
		(7) G3 SIGNAL TX TEST 12000bps			
		(8) G3 SIGNAL TX TEST 14400bps			
		(9) G3 SIGNAL TX TEST TC9600bps			
		(*) G3 SIGNAL TX TEST 12000bps			
		(#) G3 SIGNAL TX TEST 14400bps			
	(6) MODEM TEST				Tonal sign reception test
	(8) G3 V.34 Tx TEST				V34 G3 signal transmission test
(6) FUNCTION TEST [1] - [9]					
	(1) FUNCTION TEST G3 4800bps				G3 4800 bps signal transmission test
	(2) SENS/SW CHECK				Sensor checks
		FLAG			Sensor check with flag
		CST			Cassette check
		READER			Reader sensor check
		A/D			Analog/digital computation output sensor
		COPY			Copy confirmation sensor
		ADF			ADF sensor check
	(3) NCR sts				cardreader test
	(4) ADF TEST				ADF test
	(7) PANEL TEST				Panel test
	(9) LINE TEST [1] - [3]				Line signal reception test

T-5-64

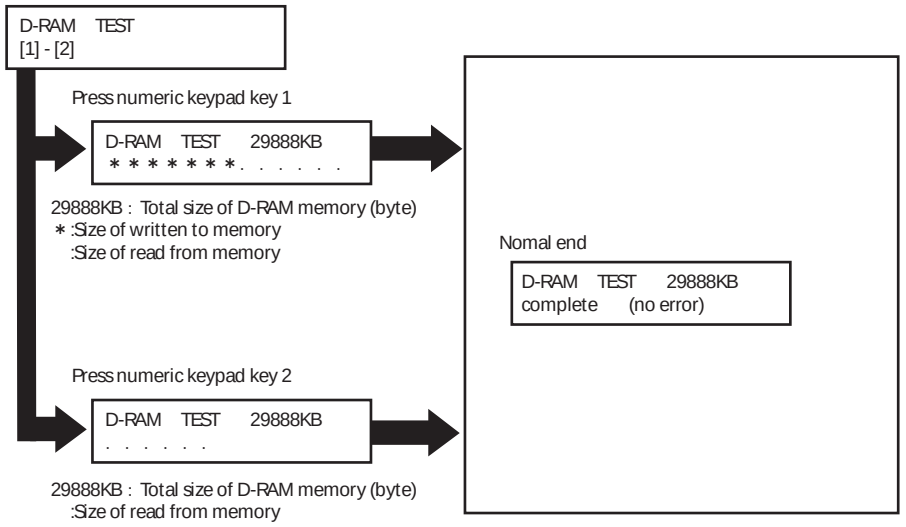
Details

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

Press the numeric keypad key 1 on the test mode menu to select the D-RAM test.
Press numeric keypad keys 1 and 2 during the D-RAM test to carry out the individual tests described below.

- Numeric keypad key 1
  Checks to see if data can be correctly written to and read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).

- Numeric keypad key 2
  Checks to see if data can be correctly read from all areas of D-RAM (SDRAM). If an error occurs making this check, the test is aborted, with an error appearing on the touch panel (LCD).



F-5-12

PG Output <(3) PG>

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

No.	Test pattern
SELECT NO.01	Grid
SELECT NO.02	Halftone
SELECT NO.03	Solid black output
SELECT NO.04	Solid white output
SELECT NO.05	---(For R&D)
SELECT NO.06	4dot-6space (vertical)
SELECT NO.07	dot-6space (horizontal)
SELECT NO.08	---(For R&D)
SELECT NO.09	---(For R&D)

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Procedure

1) Enter the PG number with numeric keys, then press the START key.
2) Select single-sided (SGL: 0) or double-sided (DBL: 1), then press the START key.
3) Enter the number of prints to be output (PG COUNT), then press the START key.
4) Specify the paper drawer (main unit), then press the START key.
   Main unit cassette (ST_C: 0), 2nd cassette (OP_C: 1), Manual feed tray (MLT: 2)
5) Specify the paper eject slot, then press the START key.
   Tray 1 (1_OUT: 0), Tray2 (2_OUT: 1)
6) Select a paper type, then press the OK key.
   Plain paper (PLN: 0), Thick paper (TCK: 1),Thin paper (OHP: 2)
7) A test pattern is output.

MODEM Test <(4) MODEM TEST>

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

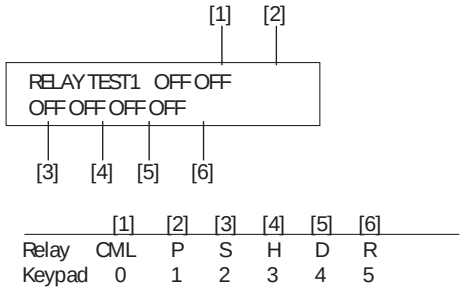
Keypad	Type	Description
1	Relay Test	Use it to turn on/off a selected relay to execute a switch-over test.
2	Frequency test	The modem sends tonal signals from the modular jack and the speaker.
4	G3 signal transmission test	The modem sends G3 signals from the modular jack and the speaker.
5	DTMF signal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

T-5-66

Relay Test

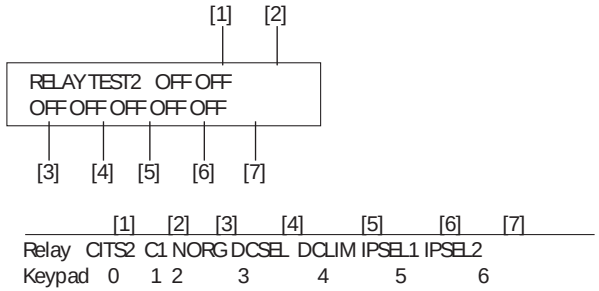
Press '1'or '2' on the keypad on the Modem test menu to select relay test mode. Use the keypad to operate the various relays of the NCU. '2' on the keypad is used for 230V machine.

- Numeric keypad key 1
  The input key and relay are shown below:



F-5-13

- Numeric keypad key 2
  The input key and relay are shown below:



F-5-14

CAUTION:

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

Frequency Test

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

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

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

G3 Signal Transmission Test

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

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

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

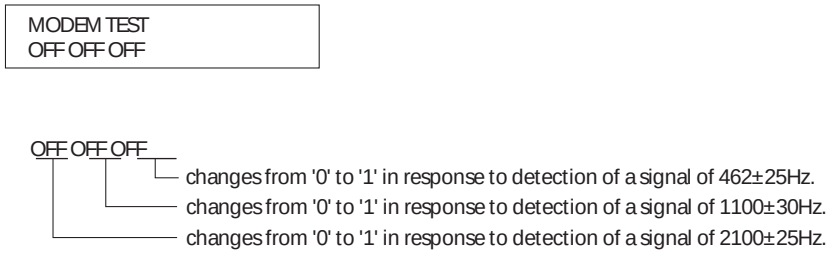
A press on '5' on the MODEM test menu selects the DTMF signal transmission test. In the test, the following DTMF signals from the modem are transmitted using the telephone line terminal and the speaker. The number pressed on the keypad selects a specific DTMF signal.

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

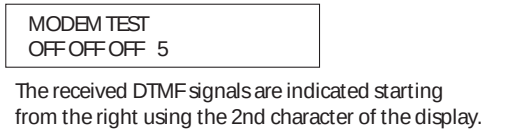
Tonal/DTMF Signal Reception Test

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

Tonal signal reception test



DTMF signal reception test



F-5-15

V.34 G3 Signal Transmission Test

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

Keypad	Baud rate
0	3429baud
1	3200baud
2	3000baud
3	2800baud
4	2743baud
5	2400baud

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Left/right arrow key	Transmission speed
<	2400bps
>	4800bps
	7200bps
	9600bps
	12000bps
	14400bps
	16800bps
	19200bps
	21600bps
	24000bps
	26400bps
	28800bps
	31200bps
	33600bps

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FUNCTION Test <(6) FUNCTION TEST>

Press the numeric keypad key 6 on the test mode menu to select the function test.
Press numeric keypad keys 1 to 4 and 9 during the function test to enter the menus listed below.

Keypad	Type	Description
1	G3 signal transmission test	Transmits 4800-bps G3 signals to a telephone line and speaker
2	Sensor test	Sensor actuation test
3	Accessory	
4	ADF test	ADF operation test
5	Not used	
6	Not used	
7	Panel test	To test operation of the Touch Panel.
8	Not used	
9	Line signal reception test	NCU board signal sensor and frequency counter operation test

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

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

Sensor test (6-2: SENSOR)

This mode is used to verify the status of the unit sensors from the touch panel (LCD) indications.

Press numeric keypad key 3 on the FUNCTION TEST menu to select the sensor test.

To select a minor item, press the START key.

The touch panel (LCD) indications change as the associated sensors turn on and off.

Group	Item		Description	Detail
(2) SENS/ SW CHECK	FLAG	Sensor check with flag (manual check)	CT: Waste Toner Full Sensor (PS2)	0: Available, 1: Full
			DO: Front Cover Sensor (PS1)	0: closed, 1: Open
			F1: Delivery Paper Full Sensor (PS4)	0: Available, 1: Full
	CST	Cassette check	SU: Cassette Pickup Sensor (PS13)	0: OFF, 1: ON
			PE: Cassette Paper Sensor (PS15)	0: OFF, 1: ON
			ZA: Cassette Paper Level Sensor A/B (PS16/PS17)	(2 digits) Right: A, Left: B 0: OFF, 1: ON
			S1: Cassette Size Detection Switch (SW2)	0: OFF, 1: ON (4 digits)
			NA: Cassette Lifting Plate Sensor (PS14)	0: OFF, 1: ON
	READER	Reader sensor check	CO: ADF Open/Close Sensor (PS23)	0/Document presence, 1/ Document absenc
			HP: CIS HP Sensor (PS24)	0: besides HP, 1: HP
			SIZE: Document size: Paper size indicated in a mix of Original Size Sensor 1/2 (PS21/PS22)	AB configuration: A4R, NONE (any size other than A4R) Inch configuration: LTRR, LGL, NONE (any size other than LTRR, LGL)
			1 (Left): Original Size Sensor 1 (PS21)	0: OFF, 1: ON
			1 (Right): Original Size Sensor 2 (PS22)	0: OFF, 1: ON
	A/D	Analog/ digital computation output sensor	HOP: Hopper Toner Sensor (TS1) output value	0: With toner, 1: Without toner
			DEV: Developing Assembly Toner Sensor (TS2) output value	0: With toner, 1: Without toner
			TEP: Environment Sensor (THU1) Temperature output value	Temperature in the machine
			HUM: Environment Sensor (THU1) Humidity output value	Humidity in the machine
	COPY	Copy confirmation sensor	MP: Manual Feeder Paper Sensor (PS7)	0: OFF, 1: ON
			RE: Pre-registration Sensor (PS12)	0: OFF, 1: ON
			RP: Arch Sensor (PS9)	0: OFF, 1: ON
			FX: Delivery Sensor (PS5)	0: OFF, 1: ON
			EX: Fixing Paper Sensor (PS19)	0: OFF, 1: ON
	ADF	ADF sensor check	W1: Document Width Detection Sensor (PS31)	0: OFF, 1: ON
			L1: Document Length Detection Sensor (PS32)	0: OFF, 1: ON
			DR: Read Sensor (PS25)	0: OFF, 1: ON
			RG: Registration Sensor (PS26)	0: OFF, 1: ON
			DS: Document Set Sensor (PS30)	0: OFF, 1: ON
			TM: Timing Sensor (PS29)	0: OFF, 1: ON
			RE: Delivery/Reverse Sensor (PS27)	0: OFF, 1: ON
			ST: Lower Reverse Sensor (PS28)	0: OFF, 1: ON

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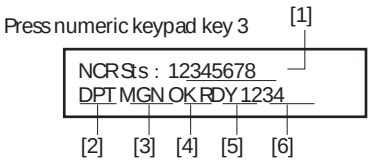
Card reader test <6-3: NCR sts>

Press numeric keypad key 3 on the FACULTY menu to select the card reader test. In this test, verify the successful operations of the card reader.



[1] Card reader and card availability indication
Card available: Eight-digit card ID
No card: Card None
No card reader available: NCR None

[2] Card type and card reader status indication
DPT: Department card
PRC: Unit pricing card
MAX: Upper limit setting card
ERS: Erased card
SRV: Service card
(No indication): No card

[3] Card type
MGN: Magnetic card
OPT: Optical card

[4] Can status
OK: Normal scan
ERR: Scan error
NG: Nonstandard error
(No indication): No card

[5] Equipment status
IN: Initialization in progress
RDY: Ready

[6] Card reader version indication
Four-digit number

F-5-16

ADF test <6-4: ADF TEST>

Execute the ADF feed test. Select 1-sided/2-sided to execute the test.

Panel test <6-7: PANEL TEST>

Execute the test for LCD, LED, keys, and coordinate position.

Line signal reception test <6-9: LINE DETECT>

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

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

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

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

6 Installation

- How to Check this Installation Procedure
- Points to Note at Installation
- Checking the Contents
- Check Items when Turning OFF the Power
- Installation Outline Drawing
- Installation Procedure
- Country Settings
- Basic Setting
- Communications Test

How to Check this Installation Procedure

When Using the Parts Included in the Package

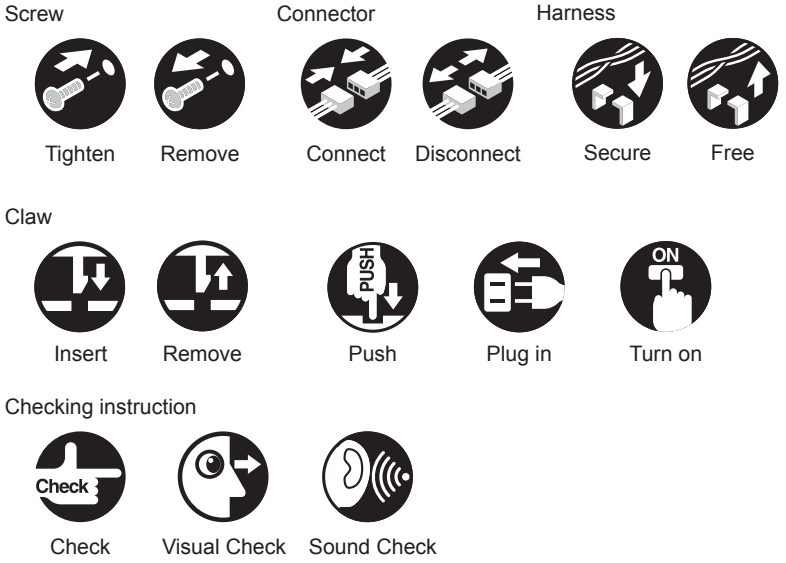
A symbol is described on the illustration in the case of using the parts included in the package of this product.

Packaged Item

F-6-1

Symbols in the Illustration

The frequently-performed operations are described with symbols in this procedure.



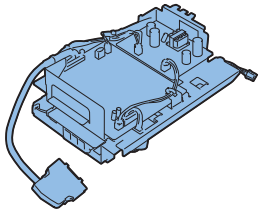
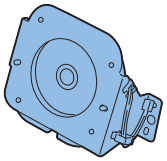
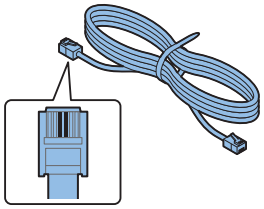
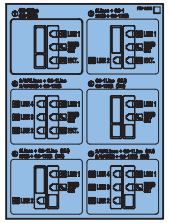
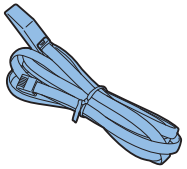
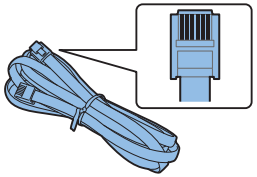
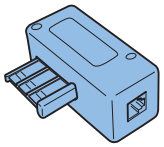
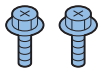
F-6-2

Product Name

Safety regulations require the product's name to be registered. In some regions where this product is sold, the following name may be registered instead.

- F626811

Checking the Contents

☐ [1] FAX unit X 1 	☐ [2] Speaker unit X 1 	☐ [3] Telephone Cord (2 Contact type) X 1 
☐ [4] FAX MJ Label X 1 	☐ [5] PTT Cable X 1 Included in Asia 	☐ [6] Telephone Cord (6 Contact type) X 1 Included in Europe 
☐ [7] PTT Plug X 1 Included in Europe Used for Germany 	☐ [8] PTT Plug X 1 Included in Europe Used for UK. 	☐ [9] PTT Plug X 1 Included in Europe Used for France 
☐ [10] FAX Approval Label X 1 Included in non-Brazil models 	☐ [12] Blanking Seal X 2 Included in Europe Use 1 of them 	☐ [13] Screw (Binding; M4x8) X 2  ☐ [12] Screw (RS Tightening; M4x8) X 2 

F-6-3

< CD/Guides >

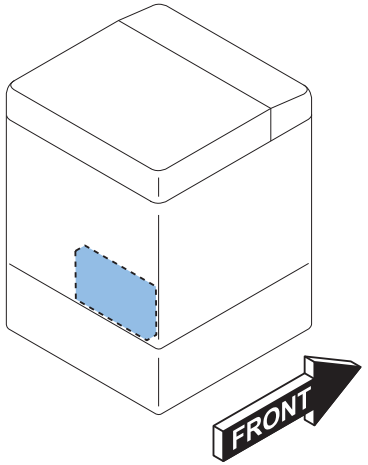
- FAX Driver CD
- FCC/IC sheet (Only for USA)
- Modular Cable Notice (Only for Europe)

Check Items when Turning OFF the Main Power

Check that the main power switch is OFF.

1) Turn OFF the main power switch of the host machine.
2) Make sure that the Control Panel Display and the Main Power Lamp is turned OFF, and disconnect the power plug.

Installation Outline Drawing



F-6-4

Installation Procedure

Installing the Fax Unit

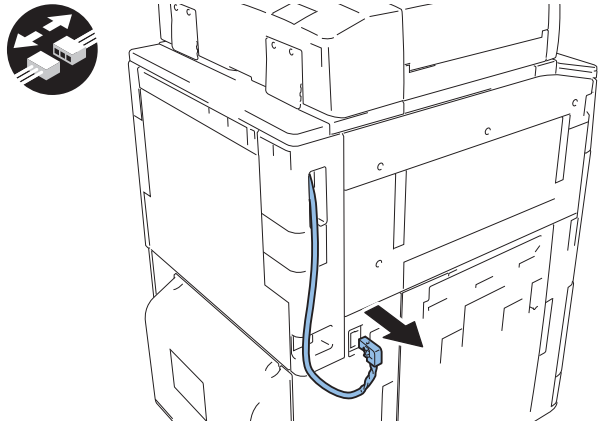
☐

1) Remove all the tapes.

NOTE:
Reseating of the Reader Power Supply Cable is a work required only on iR-ADV C9075 PRO/C9070 PRO/C9065PRO/C9060 PRO Series and iR-ADV C7065/C7055 Series.

☐

2) Remove the Reader Power Supply Cable.

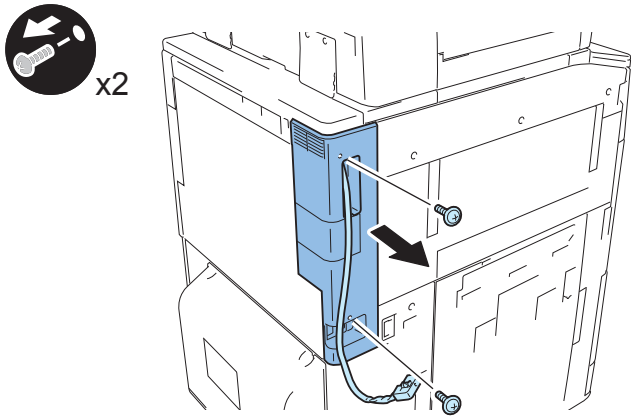


F-6-5

☐

3) Remove the Box Left Cover after putting the Reader Power Supply Cable through the hole of the Box Left Cover.

- 2 Screws

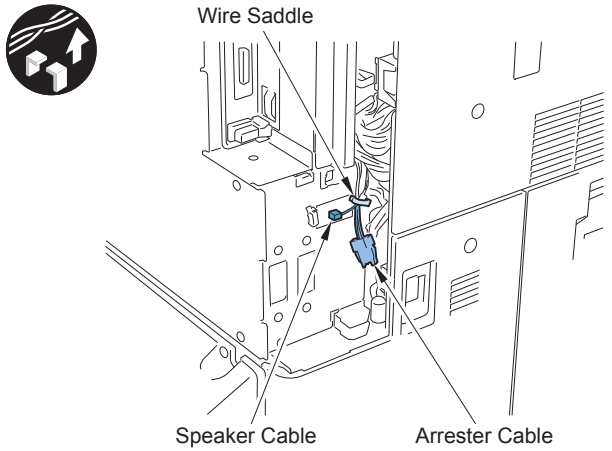


F-6-6

☐

4) Remove the Arrester Cable and the Speaker Cable.

- 1 Wire Saddle

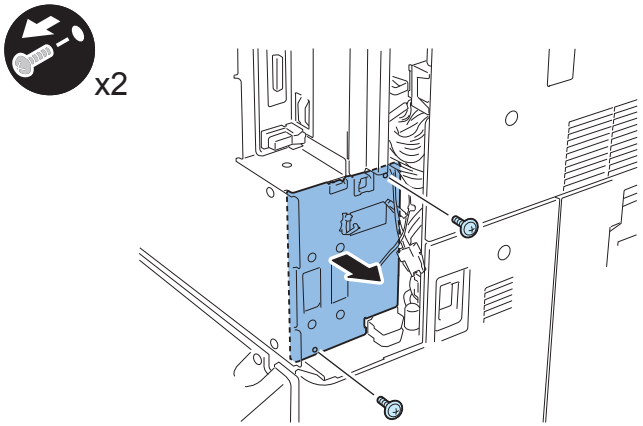


F-6-7

☐

5) Remove the Cover Support Plate.

- 2 Screws (removed screws in step 10.)



F-6-8

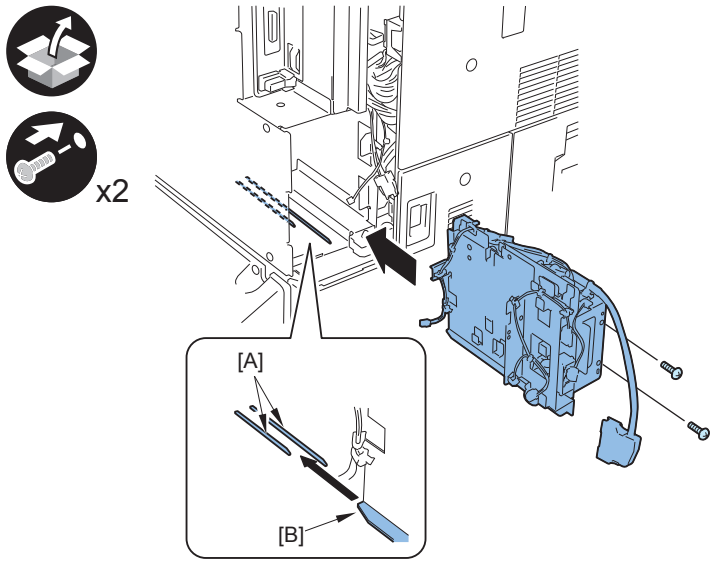
☐

6) Align the protrusion [B] of the FAX Unit to the rail part [A] of the host machine, and install the FAX Unit.

- 2 Screws (Binding; M4 x 8)

CAUTION:

Be careful to install the FAX Unit without pineching any cable of the FAX Unit with the main unit.



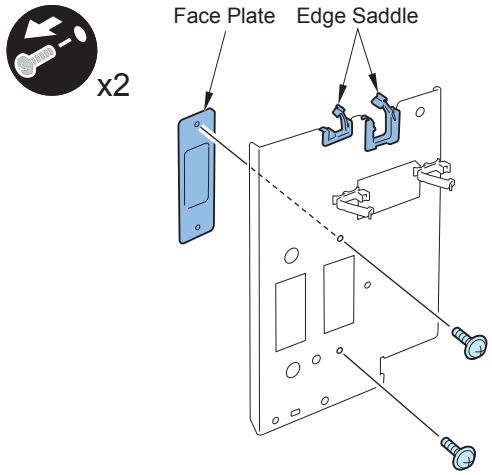
F-6-9

☐

7) Open the Edge Saddle of Cover Support Plate.

8) Remove the Face Plate of Cover Support Plate.

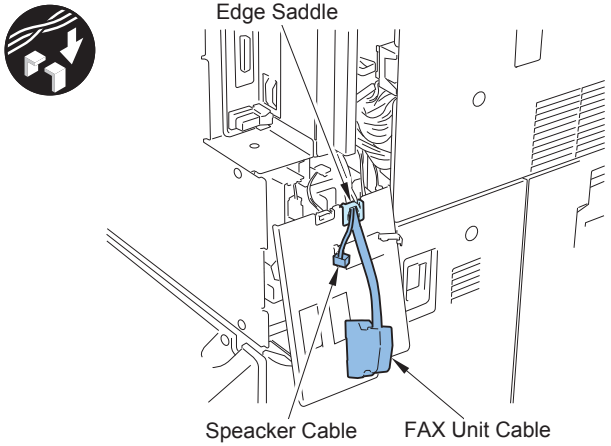
- 2 Screws (Do not reuse the Face Plate and the screws, which were removed.)



F-6-10

☐

9) Secure the Speacker Cable and the FAX Unit Cable with the Edge Saddle of Cover Support Plate.



F-6-11

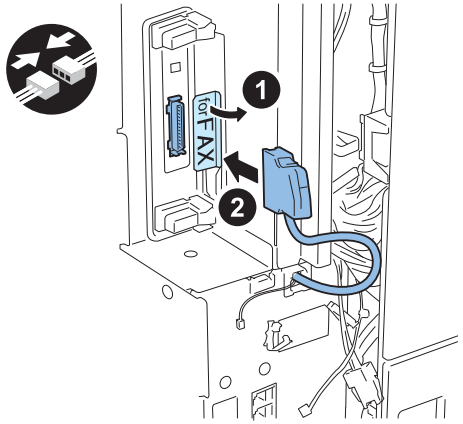
☐

10) Install the Cover Support Plate. (2 Screws)

☐

11) Turn over the FAX sheet, and connect the USB Cable

NOTE:
Turn over the FAX sheet only in the case of iR-ADV C9280 PRO/C9270 PRO series and iR-ADV C7280/C7270/C7260 series.

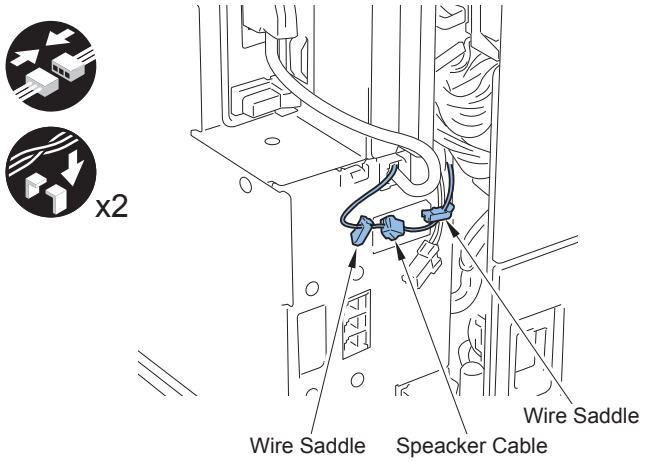


F-6-12

☐

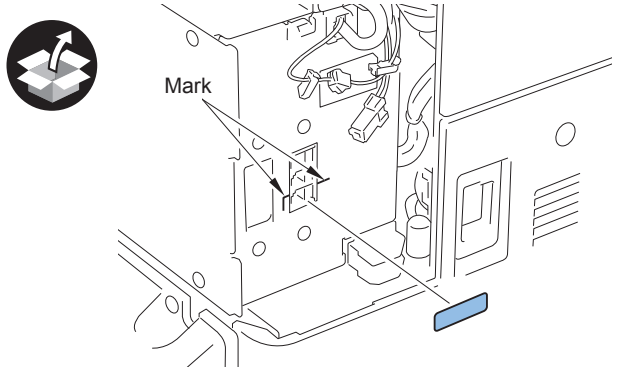
12) Connect the connector of Speacker Cable on the host machine side and the FAX Unit side.

- 2 Wire Saddles



F-6-13

☐
13) Affix the Blanking Seal by aligning it with the mark. (Europe model only)

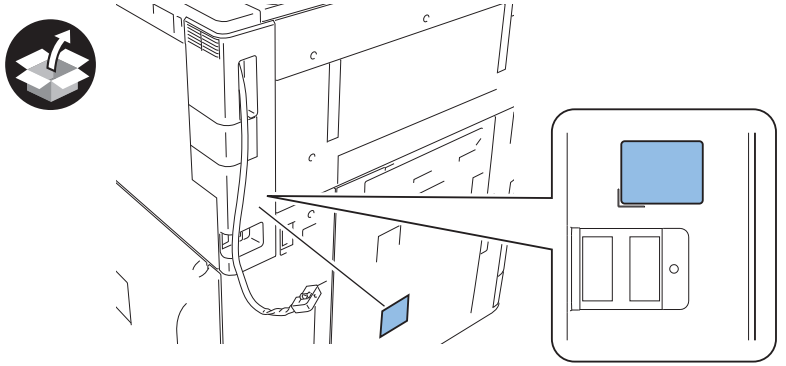


F-6-14

☐
14) Put the Reader Power Supply Cable throuth the hole of the Box Left Cover, and install the Box Left Cover. (2 Screws)

NOTE:
Reseating of the Reader Power Supply Cable is a work required only on iR-ADV C9075 PRO/C9070 PRO/C9065PRO/C9060 PRO Series and iR-ADV C7065/C7055 Series.

☐
15) Attach the conforming FAX MJ Label to the position shown in the figure.



F-6-15

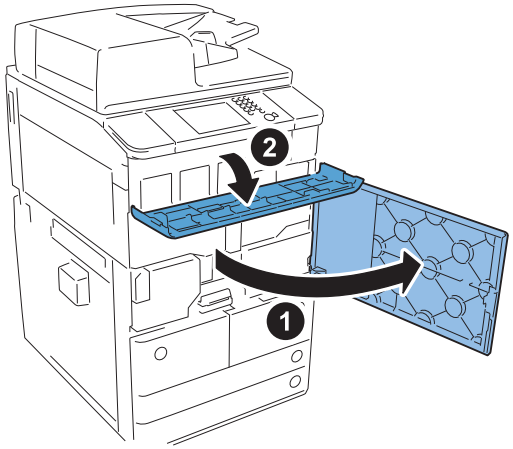
☐
16) Connect the Reader Power Supply Cable to the host machine.

NOTE:
Reseating of the Reader Power Supply Cable is a work required only on iR-ADV C9075 PRO/C9070 PRO/C9065PRO/C9060 PRO Series and iR-ADV C7065/C7055 Series.

Installing the Speaker

☐

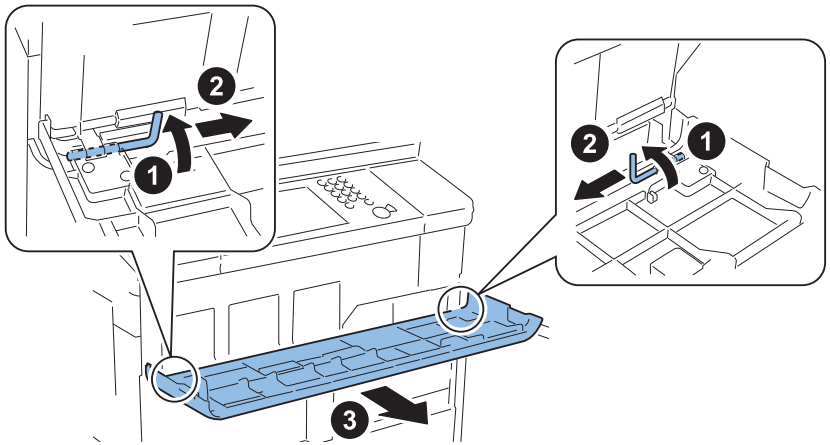
1) Open the Front Cover and Upper Front Cover.



F-6-16

☐

2) Pull the 2 Hinge Shafts and remove the Upper Front Cover.

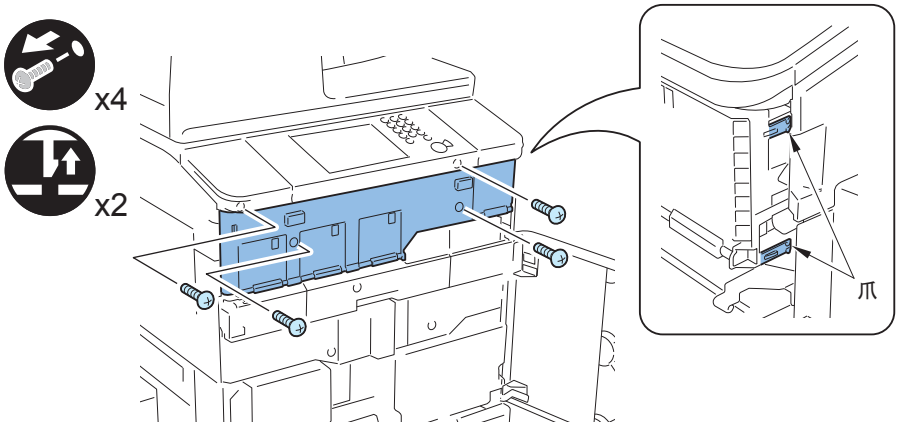


F-6-17

☐

3) Remove the Toner Container Replacement Unit Inner Cover.

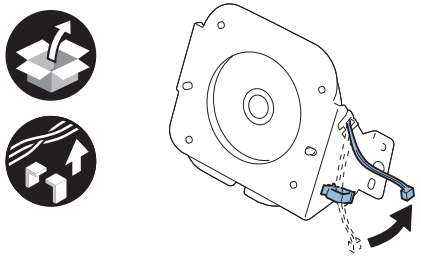
- 4 Screws
- 2 Claws



F-6-18

☐

4) Remove the cable for the Speaker Unit from the Wire Saddle and close the Wire Saddle.

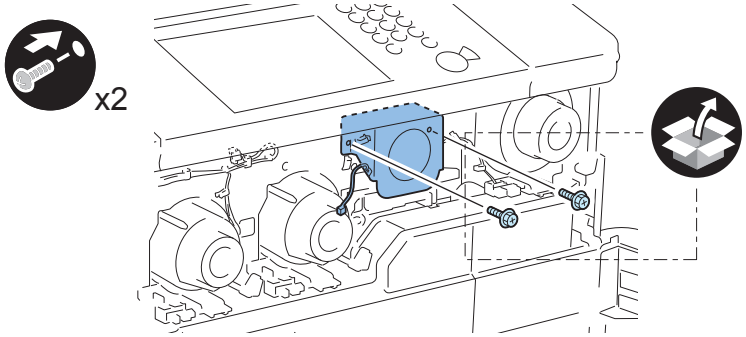


F-6-19

☐

5) Install the FAX Speacker Unit.

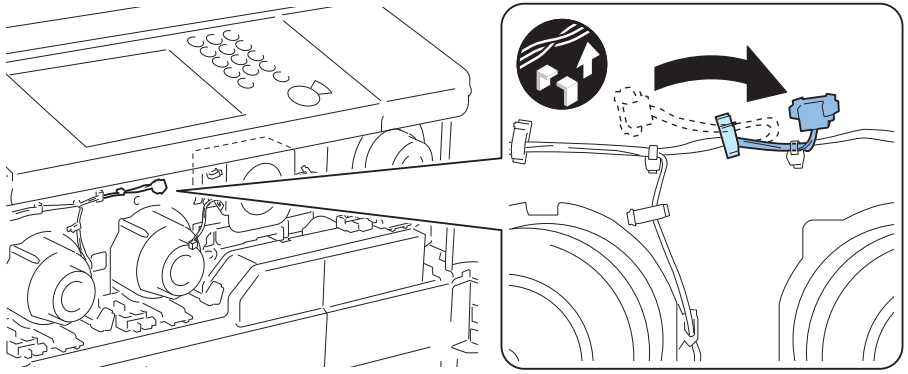
- 2 Screws (RS tight ; M4x8)



F-6-20

☐

6) Remove the folding of the Speaker Cable from the machine side from 1 location of the Wire Saddle and close the Wire Saddle.



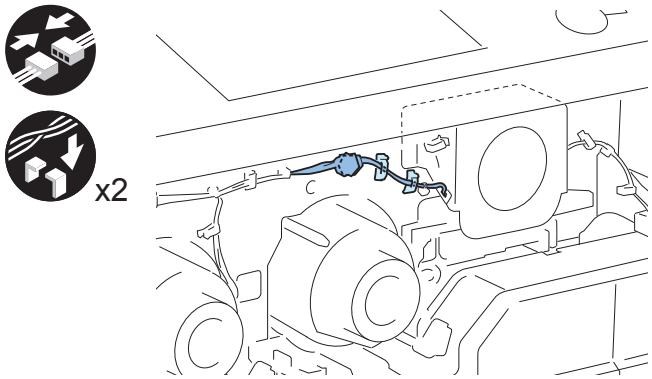
F-6-21

☐

7) Connect the Speacker Cable.

- 2 Wire Saddles

NOTE:
If the Wire Saddle interferes, turn the Wire Saddle and fix it.

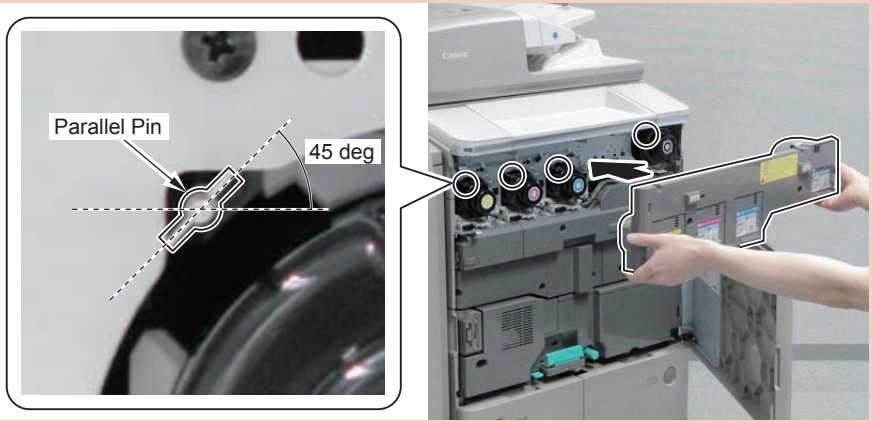


F-6-22

☐
8) Install the cover in the Toner Container Replacement Unit Inner Cover.

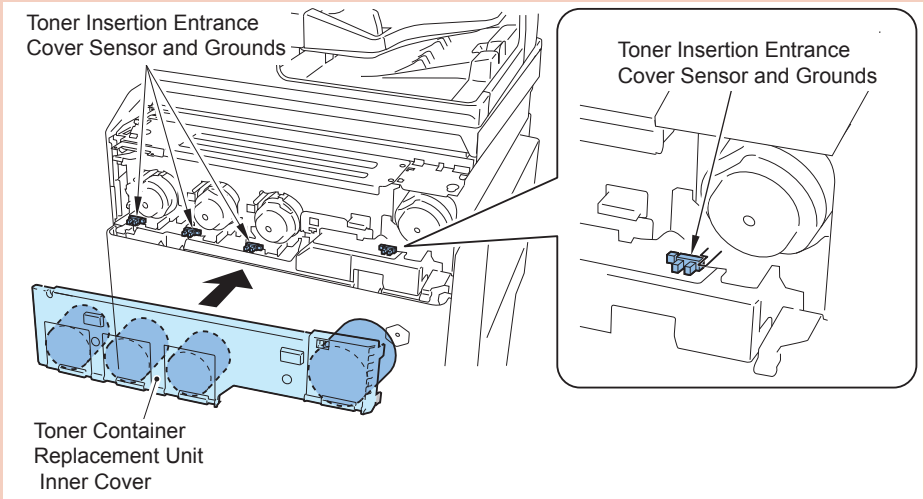
CAUTION:

- When installing, be sure to install the Toner Container Replacement Unit Inner Cover while the 4 Parallel Pins of the Inner Door Link Shaft are tilted at an angle of approx. 45 degrees.



F-6-23

- When installing, be carefulnot to damage the Toner Insertion Entrance Cover Sensor and the 4 groundingwires on top of the sernsor.



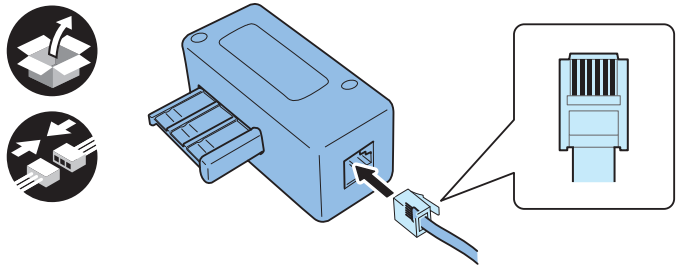
F-6-24

☐
9) Install the Upper Front Cover. (2 Hinge Shafts)

10) Close the Front Cover and the Upper Front Cover.

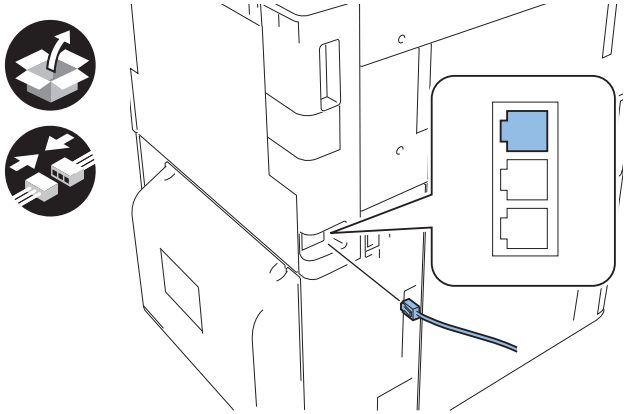
☐
11) Connect the PTT Plug matched the field or area to the Telephone Cable (6 contact type).

NOTE:
This procedure is for Europe.
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.



F-6-25

☐
12) Connect the end of the PTT Cable or Telephone Cord to the Modular Jack (LINE 1) on the host machine, and connect the other end to the Modular Jack on the wall.



F-6-26

☐

13) Insert the power plug into the outlet.

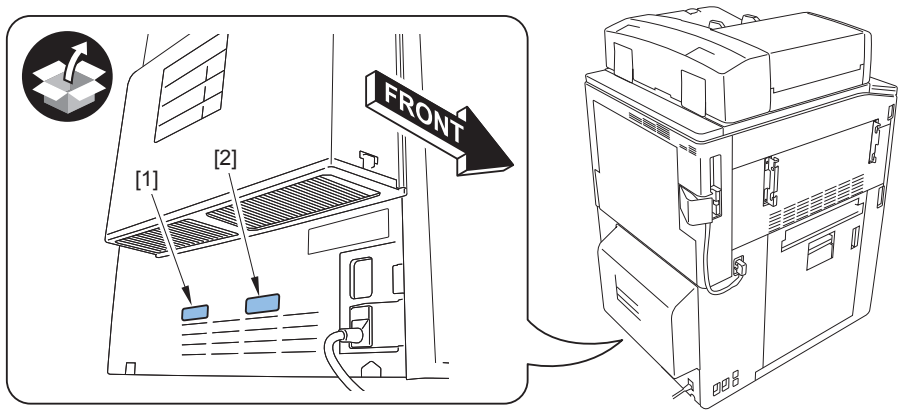
14) Turn ON the main power switch.

☐

15) Affix the FAX Approval Label in the position shown in the figure.

[1] : For USA, Europe

[2] : For Asia, Taiwan



F-6-27

Operation Setting

Type Setting

Select the country/region of the FAX Board in Service Mode: FAX > TYPE > TYPE

This setting performs the parameter settings to match the communication specification of the country/region.

☐

1) Set the TYPE of country/region to install this machine, and then press OK.

• Service Mode (level 1) > FAX > TYPE > TYPE

2) TConfirm that service mode (level 1) parameter below is "0". In the case, parameter is "1", change to "0".

• COPIER > OPTION > DSPLY-SW > SDTM-DSP

NOTE:
To change parameter to "0" makes no show below [Settings/Registration > Preferences > Time/Energy Settings > AutoShutdown Time] and auto shut down is not available.

3) Turn OFF/ON the main power switch to enable this setting.

Basic Setting

NOTE:
When “System Manager Information Settings” is set, be sure to follow the direction of user administrator in order to log in as an administrator.

In this section, make only minimum settings required for FAX communication.

☐

- User Telephone Number
  [Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Register User Telephone No.] > Enter the fax number > OK
- Type of Telephone Line
  [Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 1] > [Select Line Type] > Select the type of the connection line > OK
- Turn OFF/ON the main power switch after setting the user telephone numbers and the type of telephone line.

Fax Communication Test

Perform the communication test to check if FAX function works Correctly.

□

1) Switch the control panel display to Send/Fax display.
2) Send the test document from this machine to another machine that can handle the communication test to check that this machine can send the data correctly.
3) Send the test document from the target to this machine to check if the machine can receive the document prperly.