

# **Super G3 FAX Board-AS/AS2**

## **SERVICE MANUAL**

**Canon**

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Rev. 5**

# Introduction

## Important Notices

### 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.

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### 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	Symbols	Explanation
	Check.		Remove the claw.
	Check visually.		Insert the claw.
	Check a sound.		Push the part.

Symbols	Explanation	Symbols	Explanation
	Disconnect the connector.		Connect the power cable.
	Connect the connector.		Disconnect the power cable.
	Remove the cable/wire from the cable guide or wire saddle.		Turn on the power.
	Install the cable/wire to the cable guide or wire saddle.		Turn off the power.
	Remove the screw.		Loosen the screw.
	Install the screw.		Tighten the screw.
	Cleaning is needed.		Measurement is needed.

The following rules apply throughout this Service Manual:

- 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.
- In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (\*) as in "DRMD\*" indicates that the DRMD signal goes on when '0'.  
In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other purposes, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.

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# Safety Precautions

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## Notes Before it Works Servicing

- At servicing, be sure to turn off the power source according to the specified steps and disconnect the power plug.
- Do not turn off the power switch (of the host machine) when downloading is under way. Turning off the main power switch while downloading is under way can disable the machine.

## Points to Note at Cleaning

When performing cleaning using organic solvent such as alcohol, be sure to check that the component of solvent is vaporized completely before assembling.

## Notes on Assembly/Disassembly

Follow the items below to assemble/disassemble the device.

1. Disconnect the power plug to avoid any potential dangers during assembling/disassembling works.
2. If not specially instructed, reverse the order of disassembly to reinstall.
3. Ensure to use the right screw type (length, diameter, etc.) at the right position when assembling.
4. To keep electric conduction, binding screws with washers are used to attach the grounding wire and the varistor. Ensure to use the right screw type when assembling.
5. Unless it is specially needed, do not operate the device with some parts removed.
6. Never remove the paint-locked screws when disassembling.

### CAUTION:

#### English

##### CAUTION

The fuse may be in the neutral, and that the mains shall be disconnected to de-energize the phase conductors.

#### German

##### VORSICHT

Die Sicherung kann sich im Nulleiter befinden und das Hauptnetz muss abgetrennt werden, um die Phasenleiter stromlos zu machen.



# Product Overview

Specifications..... 4



## Specifications

Following is a specification list.

Item	Description
Communication	G3
Line type	Public Switched Telephone Network
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, TC7.2 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
Dial tone detection	yes
Modem IC	Modem supporting V.34 standard
Error correction	ITU-T ECM
Transmission original size	A3, A4, A4R, A5, A5R, B4, B5, B5R, LTR, LTRR, LGL, 11x17, STMT, STMTR ADF: double-sided originals accepted
Scanning line density	Normal: 8 pels*2/mm x 3.85 line/mm Fine: 8 pels*2/mm x 7.7 line/mm Super-Fine: 8 pels*2/mm x 15.4 line/mm Ultra-Fine: 16 pels*2/mm x 15.4 line/mm
Halftone	256 gradations
Recording unit	maximum reception size: A3 (297 mm x 420 mm) scanning line density: 600 dpi x 600 dpi
Memory	image memory (Canon Fax Standard Chart No.1): Approx. 6000 prints memory type: Hard disk storage: JBIG
Extension telephone connection	yes
Answering machine connection	no
Fax/Tel switch-over	yes
Quick Direct Transmission	yes
Transmission Header (Add Remote Name on Header SW)	yes
Remote reception	yes
Polling (F code)	no
Memory box	yes
Password reception	yes
Machine telephone No. transmission	yes
User abbreviation transmission	yes
Auto Dial Function	Address Book: 1,800 destinations (including destinations stored in one-touch buttons)
Broadcasting	256 targets (maximum number of targets) maximum number of targets by 10 key dialing: 64 target



# Technical Explanation

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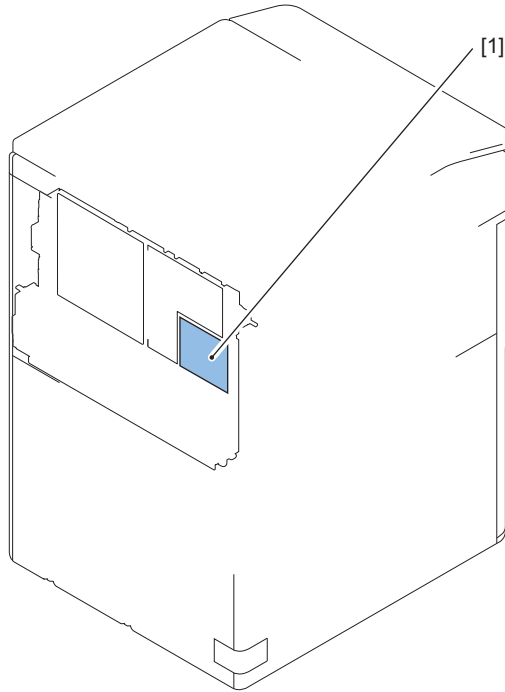
## Basic Configuration

### Basic Construction

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



[1]

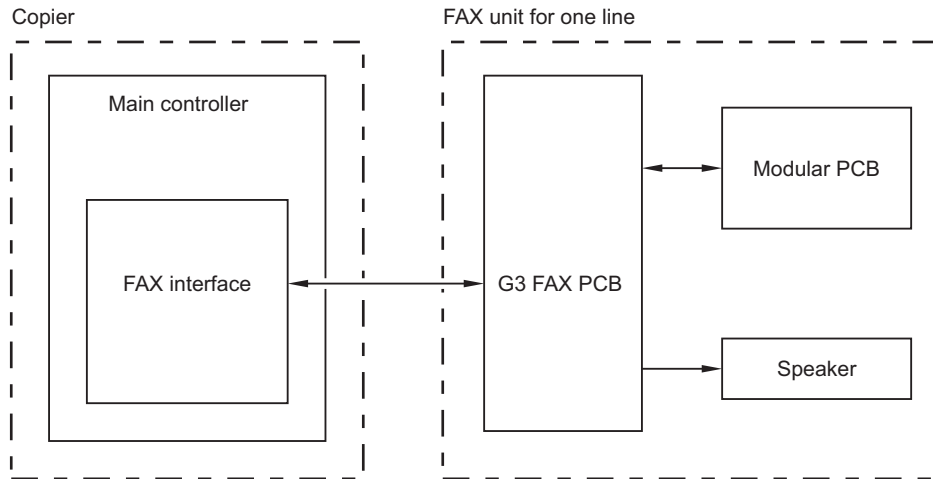
FAX Unit

# 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.





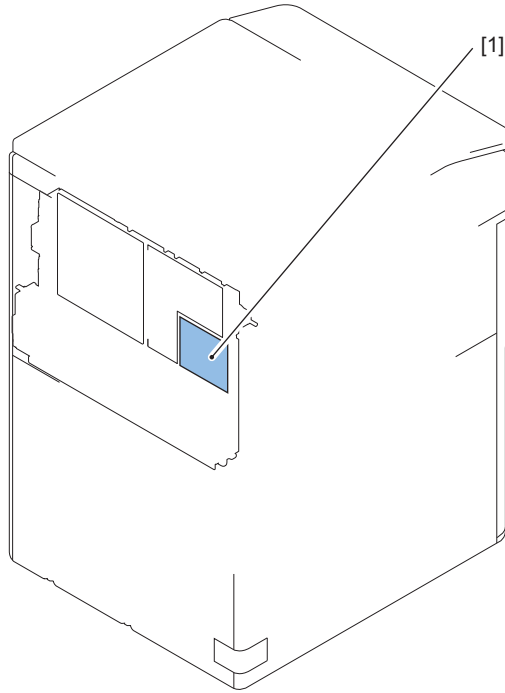
# Parts Replacement and Cleaning

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## Parts List

### PCBs

No.	Part name	Reference
[1]	FAX PCB	-

**NOTE:**

When replacing the parts, be sure to refer to the Installation Procedure and perform the reverse order of it to remove the parts.



# Error/Jam/Alarm

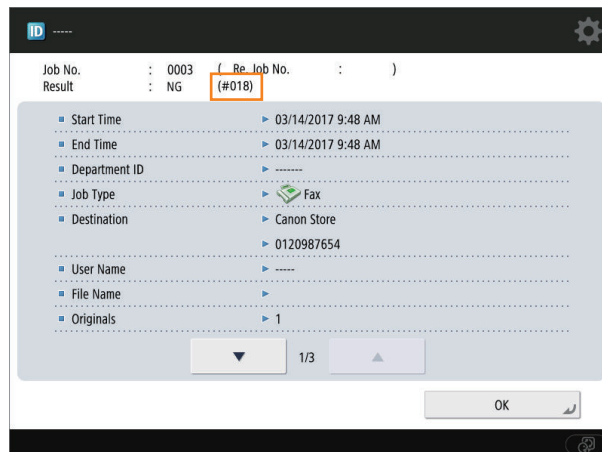
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## How to View Fax Error Codes

When the service mode #1 SSSW SW01 Bit0 is set to "1" after installing the Fax Board, service error code is output on the communication management report, reception result report, and error transmission report in the event that the communication is resulted in an error.

Moreover, when an error occurs, the error code can be checked by performing the following procedure.

Status Monitor/Cancel > Send > Job Log > Details



The error codes displayed on the screen are shown in a list in "User Error Codes" and "Service Error Codes".

For remedies for user error codes, refer to the User's Guide. For remedies for service error codes, refer to "G3/G4 Facsimile Error Code List (REVISION 2)" (document number: HY8-23A0-020) provided as a separate volume.



## User error codes

Regarding the user error codes, refer to Top > Troubleshooting > A Message or a Number Starting with "#" (an Error Code) Is Displayed > Countermeasures for Each Error Code.

## Service Error Code

Code	Cause	Remedy
##3016	[T/R] An instruction of disconnection (BYE) was received from the network at an unexpected time.	Perform a communication again.

\*1: G3FAX

\*2: IPFAX

No.*1	No.*2	T/R	Description
##100	##3100	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##101	##3101	[T/R]	the modem speed does not match that of the other party.
##102	##3102	[T]	at time of transmission, fall-back cannot be used.
##103	##3103	[R]	at time of reception, EOL cannot be detected for 5 sec (15 sec if CBT).
##104	##3104	[T]	at time of transmission, RTN or PIN is received.
##106	##3106	[R]	at time of reception, the procedural signal is received for 6 sec while in wait for the signal.
##107	##3107	[R]	at time of reception, the transmitting party cannot use fall-back.
##109	##3109	[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	##3111	[T/R]	memory error has occurred.
##114	##3114	[R]	at time of reception, RTN is transmitted.
##116	##3116	[T/R]	Disconnection of loop current was detected during communication.
##200	##3200	[R]	at time of reception, no image carrier is detected for 5 sec.
##201	##3201	[T/R]	DCN is received outside the normal parity procedure.
##204	##3204	[T]	DTC without transmission data is received.
##220	##3220	[T/R]	system error (main program out of control) has occurred.
##223	##3223	[T/R]	while a communication is under way, the line is cut.
##224	##3224	[T/R]	in communication, an error has occurred in the procedural signal.
##226	##3226	[T/R]	the stack printer has fallen outside the RAM area.
##227	##3227	[R]	An attempt was made to record a file without image.
##229	##3229	[R]	the recording unit has remained locked for 1 min.
##230	##3230	[T/R]	A unit for controlling the display has malfunctioned.
##231	##3231	[T/R]	A unit for controlling the Control Panel buttons has malfunctioned.
##232	##3232	[T]	encoding error has occurred.
##237	##3237	[R]	decoding error has occurred.
##238	##3238	[R]	the print control unit is out of order.
##261	##3261	[T/R]	system error has occurred.
##280	##3280	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##281	##3281	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##282	##3282	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##283	##3283	[T]	at time of transmission, the procedural signal has been transmitted more than specified.
##284	##3284	[T]	at time of transmission, DCN is received after transmission of TCF.
##285	##3285	[T]	at time of transmission, DCN is received after transmission of EOP.
##286	##3286	[T]	at time of transmission, DCN is received after transmission of EOM.
##287	##3287	[T]	at time of transmission DCN is received after transmission of MPS.
##288	##3288	[T]	after transmission of EOP, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##289	##3289	[T]	after transmission of EOM, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.

No.*1	No.*2	T/R	Description
##290	##3290	[T]	after transmission of MPS, a signal other than PIN, PIP, MCF, RTP, or RTN has been received.
##670	##3670	[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	##3671	[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	##3672	[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	##3673	[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	##3674	[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	##3675	[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	##3750	[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	##3752	[T]	at time of ECM transmission, DCN is received after transmission of PPS-NULL.
##753	##3753	[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	##3754	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-NULL.
##755	##3755	[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	##3757	[T]	at time of ECM transmission, DCN is received after retransmission of PPS-MPS.
##758	##3758	[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	##3759	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-MPS.
##760	##3760	[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	##3762	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOM.
##763	##3763	[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	##3764	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOM.
##765	##3765	[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	##3767	[T]	at time of ECM transmission, DCN is received after transmission of PPS-EOP.
##768	##3768	[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	##3769	[T]	at time of ECM transmission, the procedural signal has been transmitted more than specified after transmission of PPS-EOP.
##770	##3770	[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	##3772	[T]	at time of ECM transmission, DCN is received after transmission of EOR-NULL.
##773	##3773	[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	##3774	[T]	at time of ECM transmission, ERR is received after transmission of EOR-NULL.
##775	##3775	[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	##3777	[T]	at time of ECM transmission, DCN is received after transmission of EOR-MPS.
##778	##3778	[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	##3779	[T]	at time of ECM transmission, ERR is received after transmission of EOR-MPS.
##780	##3780	[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.

No.*1	No.*2	T/R	Description
##782	##3782	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOM.
##783	##3783	[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	##3784	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOM.
##785	##3785	[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	##3787	[T]	at time of ECM transmission, DCN is received after transmission of EOR-EOP.
##788	##3788	[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	##3789	[T]	at time of ECM transmission, ERR is received after transmission of EOR-EOP.
##790	##3790	[R]	at time of ECM reception, ERR is transmitted after transmission of EOR-Q.
##791	##3791	[T/R]	while ECM mode procedure is under way, a signal other than a meaningful signal is received.
##792	##3792	[R]	at time of ECM reception, PPS-NULL cannot be detected over partial page processing.
##793	##3793	[R]	at time of ECM reception, no effective frame is received while high-speed signal reception is under way, thus causing time-out.
##794	##3794	[T]	at time of ECM reception, PPR with all 0s is received.
##795	##3795	[T/R]	a fault has occurred in code processing for communication.
##796	##3796	[T/R]	a fault has occurred in code processing for communication.



# 5

## Service Mode

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## Overview

### Configuration of the Service Mode

Service mode is divided into the following 10 items (#1 to #10).

Item	Name	Description
#1 SSSW	Service software switch	This can be used to conduct the registration/settings relating to basic functions of the fax, such as error management, echo prevention and prevention of communication problems.
#2 MENU	Menu switch setting	This can be used to conduct the registration/settings relating to the required functions at installation, such as NL equalizer, transmission level.
#3 NUMERIC Param.	Setting of numeric parameters	This can be used to enter numeric parameters.
#4 NCU	(Adjustment by a service technician is not possible.)	The values of this item are collectively set based on the setting of #5 TYPE.
#5 TYPE	Country setting	If the item "STANDARD" displayed on the display is set, #4 NCU data is collectively set to comply with the communication standards in Japan.
#6 IPFAX	Communication settings of IPFAX	If the license option for IPFAX has been enabled, IPFAX is displayed.
#7 PRINT	Printer function setting	This can be used to conduct the registration/settings relating to the printer basic service functions, such as size reduction conditions for received images.
#8 CLEAR	Data initialization mode setting	This item is to initialize each data.
#9 TEST	Test Mode	To execute various tests.
#10 REPORT	Service Report	To execute report print.

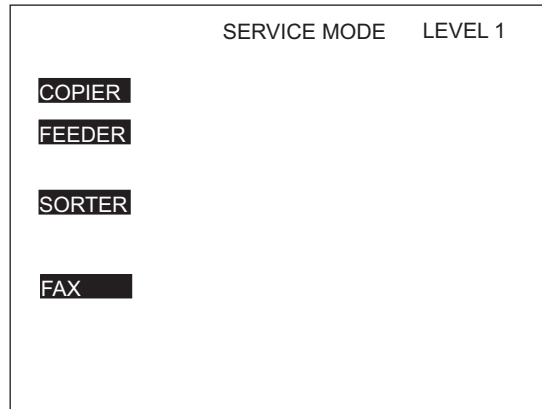
#### CAUTION:

If a 2nd line fax option is installed, IPFAX cannot be used.

### Operation method

1. Enter service mode.

2. When the connected options (FEEDER, SORTER, FAX, BOARD) are displayed, select FAX and enter service mode of this board.



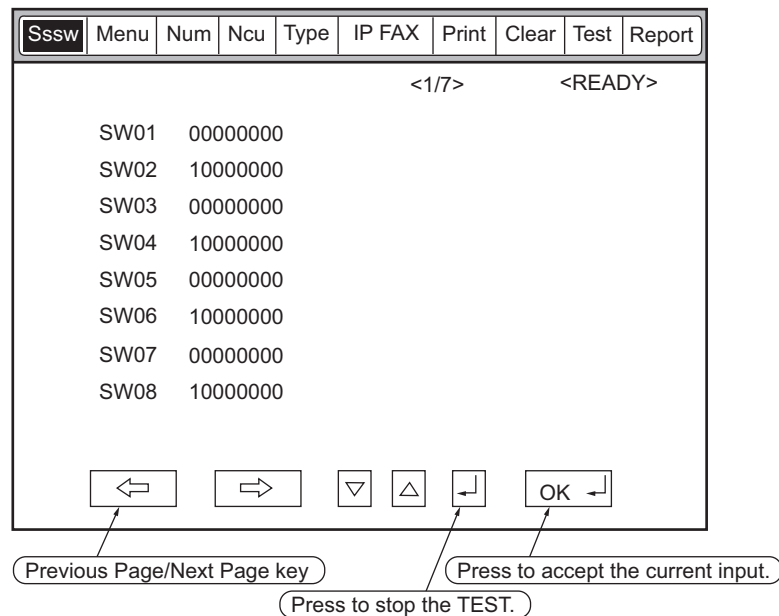
COPIER: Service mode of the connected equipment

FEEDER: Service mode of the ADF (\*)

SORTER: Service mode of the Finisher (\*)

FAX: Service mode of the fax (\*)

The following explains the operation method using the #1 SSSW screen as an example. The meaning of the keys and operations are common for all screens.



- When changing the setting of the bit switch, directly press the bit (numeric value) you want to change.
- To enter a numeric value, use the numeric keypad.
- When confirming a change in a numeric value or when executing an item, press the [OK] key.
- To return to the previous layer, use the [Reset] key.

#### CAUTION:

When changing the service mode settings, turn OFF and then ON the power.

The details of settings in service mode are stored in the HDD of the host machine. The settings for this board are enabled by loading the settings stored in the HDD of the host machine to the G3 Fax Control PCB when the main power is turned ON. Therefore, be sure to turn OFF and then ON the power when the settings have been changed.



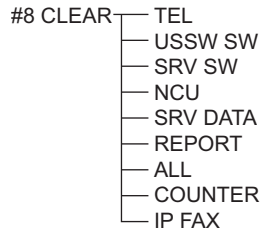
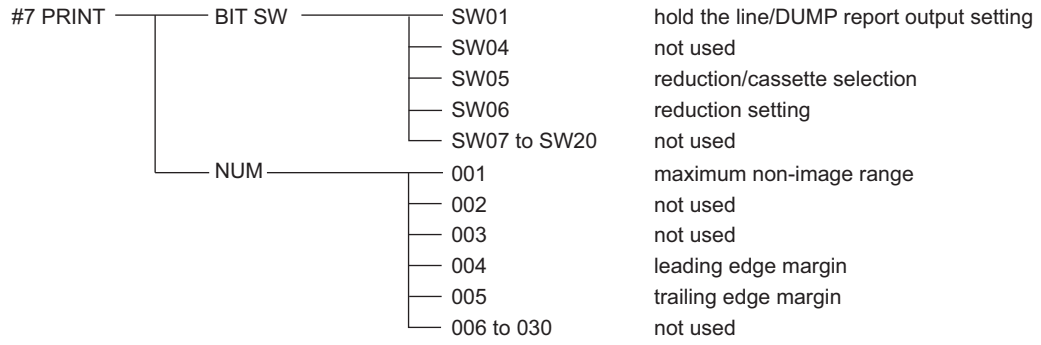
## Menu List

#1 SSSW	SW01	error management
	SW02	Not used
	SW03	set remedy against echo
	SW04	set remedy against communication error
	SW05	set standard function <DIS signal>
	SW06 to SW08	Not used
	SW09	set communication result display
	SW10 to SW11	Not used
	SW12	set page timer
	SW13	Display of the screen Settings
	SW14	Inch/mm resolution settings
	SW15	Not used
	SW17	Transmission level setting of modem
	SW18	The control of IP supported communication setting
	SW19 to SW21	Not used
	SW22	Settings of archive send function
	SW23 to SW24	Not used
	SW25	set report display function
	SW26	set transmission function
	SW27	Not used
	SW28	set V. 8/V. 34
	SW29	Not used
	SW30	Dial tone detection method switching
	SW31 to SW50	Not used

#2 MENU	001 to 004	Not used
	005	NL equalizer
	006	line monitor
	007	transmission level (ATT)
	008	V.34 modulation speed upper limit
	009	V.34 data speed upper limit
	010 to 020	Not used

#3 NUM	001	not used
	002	RTN transmission condition (1)
	003	RTN transmission condition (2)
	004	RTN transmission condition (3)
	005	NCC pause time (before ID code)
	006	NCC pause time (after ID code)
	007	pre-pulse time at time of call
	008	not used
	009	number of characters in telephone numbers between transmitting and receiving parties.
	010	line connection identification time
	011	T.30 T1 timer (for reception)
	012	not used
	013	T.30 EOL timer
	014	not used
	015	hooking detection time
	016	Time until a temporary response is obtained when switching FAX/TEL
	017	Pseudo RBT signal pattern ON time
	018	Pseudo RBT signal pattern ON time (short)
	019	Pseudo RBT signal pattern OFF time (long)
	020	Pseudo CI signal pattern ON time
	021	Pseudo CI signal pattern OFF time (short)
	022	Pseudo CI signal pattern OFF (long)
	023	CNG detection level when switching FAX/TEL
	024	Pseudo RBT transmission level when switching FAX/TEL
	025	CNG monitoring time when the answering phone connection function is set
	026	Silent detection level when the answering phone connection function is set
	027	preamble detection time for V.21 low-speed flag
	028	Off-hook PCB duty settings
	029-80	not used





## Setting of Bit Switch (SSSW)

### Bit Switch Composition

The registration/setup items of the switch are set according to the positions of its 8 bits; the bit switch shown on the display is as follows, each bit being either 0 or 1:

Bit 7	Bit 0
SW01	0 0 0 0 0 0 0 0

#### CAUTION:

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

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
					<1/7>			<READY>	
SW01		0	0	0	0	0	0	0	0
SW02		1	0	0	0	0	0	0	0
SW03		0	0	0	0	0	0	0	0
SW04		1	0	0	0	0	0	0	0
SW05		0	0	0	0	0	0	0	0
SW06		1	0	0	0	0	0	0	0
SW07		0	0	0	0	0	0	0	0
SW08		1	0	0	0	0	0	0	0

### ■ SSSW-SW01

#### Functional Construction

Bit	Function	1	0
0	Error codes for service technician	Output	Do not output
1	Error dump list	Output	Do not output
2	Not used	-	-
3	Not used	-	-
4	Display service error codes in the ##300 series	Display	Do not display
5	Increase the capacity of SUBLOG for USBFAX2	Increase	Do not increase
6	Not used	-	-
7	Cancel prohibition of user setting collectively	Cancel	Do not cancel

#### Details of Bit 0

Select whether to output service error codes.

When "Output" is selected, service error codes will be on the display and on the report.

#### Detailed Discussions of Bit 1

Select whether to output error dump list.

When "Output" is selected, the error transmission report and the reception result report at the time of occurrence of an error are output with the error dump list attached.

#### Detailed Discussions of Bit 4

Select whether to display service error codes in the ##300 series.

**Detailed Discussions of Bit 5**

Select whether to increase the log storage area when firmware automatic update function of USBFAX2 (a modem with Silicone Labs modem mounted version) is used.

**Detailed Discussions of Bit 7**

Select whether to collectively cancel the prohibition of user settings.

■ **SSSW-SW02****Functional Construction**

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	To prohibit control channel retrain during V.34	Prohibit	Do not prohibit
5	Not used	-	-
6	Not used	-	-
7	F-NET service without ring tone	Supported	Not supported

**Detailed Discussions of Bit 4**

Select whether to prohibit the control channel retrain during V.34.

**Detailed Discussions of Bit 7**

Select whether to support F-NET (fax communication network) service without a ring tone.

If "Supported" is selected, fax document will be automatically received without a ring tone when FC signal (1300 Hz tonal signal) from F-NET is detected.

■ **SSSW-SW03****Functional Construction**

Bit	Function	1	0
0	Not used	-	-
1	Echo protect tone at high speed transmission	Send	Do not send
2	Not used	-	-
3	Not used	-	-
4	Transmission mode: International transmission (1)	Yes	No
5	Transmission mode: International transmission (3)	Yes	No
6	Send mode	International transmission (3)	International transmission (2)
7	Tonal signal before sending CED signal	Send	Do not send

**Detailed Discussions of Bit 1**

Use it to enable/disable sending an echo protect tone for a high-speed transmission V.29 modem signal (transmission speed at 9600 or 7200 bps).

If errors occur frequently at time of sending fax because of the condition of the line, select "Send". Selecting "send" sends non-modulated carrier for about 200 ms as the synchronous signal before sending images.

**NOTE:**

Error codes caused by line condition when sending fax

##100, ##104, ##281, ##282, ##283, ##750, ##755, ##760, ##765

**Detailed Discussions of Bits 4, 5 and 6**

Transmission mode: Selected to use whether international transmission (1), international transmission (2) or international transmission (3).

Use these switches or the dial registration to select a transmission mode if errors occur frequently at time when sending fax overseas.

**NOTE:**

Error codes caused by echoes at time of sending fax

##005, ##100, ##101, ##102, ##104, ##201, ##280, ##281, ##283, ##284, ##750, ##760, ##765, ##774, ##779, ##784, ##794

Settings using the Dial Registration (user level):

Select "international transmission (1)" when making an entry in the address book. If errors persist, select "international transmission (2)" and then "international transmission (3)".

Transmission mode selected using One-Touch Dial function or the Speed Dial function will be given priority over the setting made by the service soft switch.

An international transmission mode may be selected using the keypad if a mode has been selected using this switch; for settings, see the following table:

Transmission mode	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
International transmission (1)	*	0	0	1	-	-	*	-
International transmission (2)	*	0	1	0	-	-	*	-
International transmission (3)	*	1	1	0	-	-	*	-

International transmission (1): Selected to ignore the first DIS signal from the other party.

International transmission (2): Selected to transmit a 1850-Hz total signal when transmitting the DIS signal.

International transmission (3): Selected to transmit a 1650-Hz total signal when transmitting the DIS signal.

**Detailed Discussions of Bit 7**

Select whether to enable/disable sending of a 1080-Hz tonal signal before sending CED signal.

Select "Send" if errors occur frequently because of an echo when reception is from overseas.

**NOTE:**

Error codes caused by echoes at the time of reception

##005, ##101, ##106, ##107, ##114, ##200, ##201, ##790

## ■ SSSW-SW04

**Functional Construction**

Bit	Function	1	0
0	LC monitoring	Monitor	Do not monitor
1	Check the CI signal frequency	Check	Do not checked
2	Final flag sequences of the procedure signal	2 pcs	1 piece
3	Reception mode after sending CFR signal	High speed	High speed/low speed
4	Time to ignore low-speed signals after sending CFR signal	1500 msec	700 msec
5	Check the CS signal frequency (when PBX is set)	Check	Do not check
6	CNG signal at the time of manual sending	Send	Do not send
7	CED signal at the time of manual reception	Send	Do not send

**Detailed Discussions of Bit 1**

Select whether to check the CI signal frequency.

**Detailed Discussions of Bit 2**

Select the number of the final flag sequences with the procedure signal (300 bps transmission speed).

Select "2" when the other party's machine does not properly receive the procedure signal sent by this machine.

**NOTE:**

Error codes occurring at the time of sending fax

##100, ##280, ##281, ##750, ##753, ##754, ##755, ##758, ##759, ##760, ##763, ##764, ##765, ##768, ##769, ##770, ##773, ##775, ##778, ##780, ##783, ##785, ##788

**Detailed Discussions of Bit 3**

Select a reception mode after sending CFR signal.

Select "High speed" in the case of frequent errors caused by line condition at the time of reception. Simultaneously, turn "OFF" the "ECM reception" of the user data.

**NOTE:**

Error codes caused by line condition at the time of reception

##107, ##114, ##201

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 sending the CFR signal.

**Detailed Discussions of Bit 4**

Select the time length during which low-speed signals are ignored after sending the CFR signal.

Select "1500 msec" when reception of image signal is difficult because the line condition is not good.

**Detailed Discussions of Bit 5**

Select whether to check the CI signal frequency when PBX is set.

**Detailed Discussions of Bit 6**

Select whether to send CNG signal at the time of manual sending.

If error occurs frequently at manual sending when the destination device that has FAX/TEL switch mode does not change to the fax mode, select "Send".

**Detailed Discussions of Bit 7**

Select whether to send CED signal at the time of manual reception.

Select "Send" when the other party's machine does not start sending although manual reception is executed.

## ■ SSSW-SW05

**Functional Construction**

Bit	Function	1	0
0	Not used	-	-
1	To execute mm/inch conversion (text mode).	Yes	No
2	Not used	-	-
3	To send bit 33 or later of DIS signal.	Prohibit	Do not prohibit
4	Record paper length to be declared by DIS signal	A4/B4 size	Any size
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

**Detailed Discussions of Bit 1**

Execute mm/inch conversion for the image scanned in text mode.

**Detailed Discussions of Bit 3**

Select whether to send bit 33 or later of DIS signal.

**CAUTION:**

If "Prohibit" is selected, the super-fine reception from other brand printers or memory box function will be disabled.

**Detailed Discussions of Bit 4**

Select whether the paper to be declared by DIS signal is a cut paper.

Select "A4/B4 size" if dividing the original at the sending machine side at the time of receiving a long original.

**NOTE:**

Depending on the model of sending machine, long originals may not be divided.

## ■ SSSW-SW09

### Functional Construction

Bit	Function	1	0
0	Communication result at normal completion	Display	Do not display
1	Communication result at completion with an error	Display	Do not display
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 0 and 1

Select whether to continue displaying the communication result on the Control Panel at normal completion and/or at completion with an error.

## ■ SSSW-SW12

### Functional Construction

Bit	Function	1	0
0	Timeout period for sending 1 page (sending)	1	0
1	Timeout period for sending 1 page (sending)	1	0
2	Timeout period for sending 1 page (HT sending)	1	0
3	Timeout period for sending 1 page (HT sending)	1	0
4	Timeout period for sending 1 page (reception)	1	0
5	Timeout period for sending 1 page (reception)	1	0
6	Not used	-	-
7	Page timer settings for sending/receiving	Set	Do not set

This machine stops communication when sending/receiving per original page takes 32 minutes or longer. When setting the timer different from the above, see the following to set the most appropriate time length.

When 'Do not set' is selected using bit 7, the timeout length per page for all modes will depend on the setting of bit 0 and bit 1.

#### Timeout period at the time of sending/receiving

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

#### Timeout period at the time of sending (in text mode)

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

#### Timeout period at the time of sending (in text mode)

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

Timeout period	Bit7	Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
64 min.	1	*	*	*	1	1	*	*

### Timeout period at the time of reception

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

## ■ SSSW-SW13

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Display Modem Dial-in/My Number Setting screen	Yes	No
4	Display Number Display Setting screen	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 3

To set whether to display Modem Dial-in Setting screen and My Number Setting screen.

#### NOTE:

Turn OFF and then ON the power of the host machine after the setting.

#### Detailed Discussions of Bit 4

To set whether to enable the display of Number Display Setting screen.

#### NOTE:

Turn OFF and then ON the power of the host machine after the setting.

## ■ SSSW-SW14

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	inch-configuration resolution declaration	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 4

At the time of G3 communication, select whether to declare inch-configuration resolution to the other party's machine. 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-SW17

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	To select the transmission level of the modem	0 to 15	8 to 15
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 1

Select the transmission level of the modem.

## ■ SSSW-SW18

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Prohibition of the control of IP supported communication	Yes	No
3	Number of command retransmission (V1.7 or earlier)	6 times	3 times
4	Request retransmission of all frames after frame loss at JBIG reception	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 2

Set whether to prohibit the control of IP supported communication

1: Yes

0: No

#### Detailed Discussions of Bit 3

Number of command retransmission

1: 6 times

0: 3 times

#### Detailed Discussions of Bit 4

Set whether to request retransmission of all frames after frame loss at JBIG reception

1: Yes

0: No

## ■ SSSW-SW22

### Functional Construction

Bit	Function	1	0
0	Backup when an archive transmission error occurs	Use	Do not use
1	Not used	-	-
2	Not used	-	-
3	Prohibit manual polling operation	-	-
4	Not used	-	-
5	Not used	-	-
6	Archive transmission function	Enabled	Disabled
7	Not used	-	-



**Detailed Discussions of Bit0**

Select whether to back up data when a communication error occurs during archive transmission.  
This function is available on the Platform Version 3.6 or later.

**Detailed Discussions of Bit3**

Set whether to prohibit of manual polling operation

**Detailed Discussions of Bit 6**

Set whether to send the sent images to the destination specified by the forwarding function.

■ **SSSW-SW23****Functional Construction**

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Prohibit to rotate A4 or larger paper in portrait position by 180 degrees	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

**Detailed Discussion of Bit 2**

Set whether to add header with or without rotating the image by 180 degrees when A4 or larger paper is placed in the feeder in portrait position (R position).

- 1: Yes
- 0: No

■ **SSSW-SW25****Functional Construction**

Bit	Function	1	0
0	Sender's phone number indicated in the report	Receiver's number	Caller's number
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Firmware automatic update (USB Fax)	Prohibit	Do not prohibited
6	Not used	-	-
7	Not used	-	-

**Detailed Discussions of Bit 0**

Select a phone number to be indicated on the report after transmission is completed.

Caller's number: To display the caller's phone number on the report

Receiver's number: To indicate the phone number (CSI signal data) sent from the other party's machine on the report

**Detailed Discussions of Bit 5**

Select whether to prohibit the firmware automatic update for USB Fax.

■ **SSSW-SW26****Functional Construction**

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Check the sequential broadcast.	Check	Do not check

Bit	Function	1	0
3	Not used	-	-
4	Not used	-	-
5	Redial function when transmission error occurs	Use	Do not use
6	Not used	-	-
7	Error report when sending process is canceled	Do not output	Output

#### Detailed Discussions of Bit 2

Select whether to display a confirmation message when entering destination for the sequential broadcast in order to prevent the user from broadcasting by mistake.

#### Detailed Discussions of Bit 5

Select whether to use the redial function when outgoing transmission error occurs.

#### Detailed Discussions of Bit 7

Select whether to output an error report when the [Stop] key is pressed to cancel sending.

## ■ SSSW-SW28

### Functional Configuration

Bit	Function	1	0
0	V.8 procedure at the caller side	No	Yes
1	V.8 procedure at the receiver side	No	Yes
2	V.8 late start at the caller side	No	Yes
3	V.8 late start at the receiver side	No	Yes
4	Fallback from the V.34 receiver side	Prohibit	Do not prohibit
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Detailed Discussions of Bit 0

Select whether to execute V.8 procedure when making a call.

"No": V.8 procedure is not executed even if V.8 procedure is received from the receiver side, and the procedure starts from V.21.

#### Detailed Discussions of Bit 1

Select whether to execute V.8 procedure when receiving a call.

"No": V.8 procedure is not executed, and the procedure starts from V.21.

#### Detailed Discussions of Bit 2

Select whether to execute V.8 procedure when ANSam signal from the receiver side cannot be recognized at the time of making a call and V.8 procedure is declared by DIS signal from the receiver side.

"Yes": CI signal is sent in response to the DIS signal of the receiver side to execute the V.8 procedure.

"No": CI signal is not sent in response to the DIS signal of the receiver side, and the V.21 procedure is executed.

In the case of manual transmission, there will be no V.8 late start regardless of this setting.

#### Detailed Discussions of Bit 3

Select whether to declare the existence of the V.8 procedure with the DIS signal that is transmitted after the ANSam signal in case that the ANSam signal at the reception is not recognized at the caller side.

"Yes": V.8 procedure is declared by DIS signal and V.8 procedure is executed after CI signal is sent from the caller side.

"No": V.8 procedure is not declared by DIS signal, and V.21 procedure is executed.

In the case of manual transmission, there will be no V.8 late start regardless of this setting.

#### Detailed Discussions of Bit 4

Select whether to prohibit fallback from the V.34 receiver side.

"Prohibit": There will be no fallback from the receiver side.

## ■ SSSW-SW30

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Switching the dial tone detection method	-	New detection method
6	Flow control between pages	Control	Do not control
7	Not used	-	-

#### Detailed Discussions of Bit 5

Switch the detection method when executing the dial tone detection at the time of calling.

0: New detection method (default)

1: Not used

#### Detailed Discussions of Bit 6

Select whether to execute flow control between pages.

## ■ SSSW-SW50

### Functional Construction

Bit	Function	1	0
0	Transmission number restriction: Function to prevent no external access code *2	ON: Enable	OFF: Disable
1	Transmission number restriction: Extension allowance, prohibition *2	Prohibited	Allow
2	Transmission number restriction: Add "0" to the first digit of external access code *2	Yes	No
3	Operate as the client of a fax server *1 *a	Yes	No
4	Display the send job stop confirmation screen when pressing Stop key *2	No	Yes
5	Send jobs that are targeted to stop when pressing Stop key *2	Ongoing send job	Incomplete send job
6	not used	-	-
7	not used	-	-

\*1: Supported by the platform version 306 or later

\*2: Supported by the platform version 307 or later

\*a: Enabled only for USA

#### Details of Bit 0

To prevent incorrectly sending fax due to forgetting to use the external access number, "0", this function displays a pop-up warning window and prevents sending and returns to the status before pressing Start button by pressing [OK] after setting the fax number in [Fax] or [Scan and Send] and pressing Start button if the set telephone number does not start with "00". This function is supported even if the machine is operating in the fax server mode.

0: ON: Disable

1: OFF: Enable

**CAUTION:**

- If using this function, enter the telephone number from the area code.
- This function applies to the fax destination telephone number of "Address List", "One-touch" and "Numeric Keypad input".  
However, the warning is not displayed with "sending from Mail Box" and "manual sending".
- A warning is displayed when sending IP fax but it is not displayed when sending PC fax.
- A warning is not displayed when forwarding transmission.
- If any registered number matches to the condition for displaying a warning, the warning is displayed with "sequential broadcast" and "group sending".
- "\*" and "#" are also processed as a number.

**NOTE:**

Example of sending fax to 03-1234-5678

- The machine accepts sending fax with "0 (external access code) + 03 1234 5678 (telephone number)".
- The machine displays a warning and stops sending with "(no external access code) + 03 1234 5678 (telephone number)".
- If the external access code is other than "0", it can be changed from the following service mode.

Service Mode > FAX > NUM > 080

Change the default setting of 080 from "0" to the external access code used in the installation environment.

**Details of Bit 1**

This is set to allow or prohibit transmission to the extension line.

This is enabled only if Bit 0 (function to prevent no external access code) is "1" (ON: Enable).

If transmission to the extension line is allowed, all telephone numbers not starting with the external access code are allowed. For example, if the external access code is "0", any number starting with "00" as starting 2 digits and number of the extension line are allowed. This means numbers starting with "01" to "09" are prohibited and other numbers are allowed.

If transmission to the extension line is prohibited, only allow the telephone number starting with the external access code + area code "0". For example, if the external access code is "0", allow only numbers starting with "00" as starting 2 digits.

Prohibit all extension numbers. This means only numbers starting with "00" are allowed and other numbers are prohibited.

0: Allow

1: Prohibit

**Details of Bit 2**

This is the switch to add "0" to the beginning of external access code (default "0") set by the NUM switch 080.

The NUM switch can be used to set "0" and "1" but not "00" and "01" as the external access code.

This switch is used to solve this issue. In the above example, set this setting to "add" and then set the NUM switch 080 to "0" and "1" to set the external access code of "00" and "01".

0: No

1: Yes

**CAUTION:**

- This automatically adds the external access number to the destination telephone number for sending fax registered by Address List, One-touch and entering by the Numeric Keypad excluding Direct Send and Send from Mail Box.
- This should be set only in the network environment that sends fax by adding the external access code.
- Do not add the external access code to the telephone number for fax send destination as the external access code is automatically added.

**Details of Bit 3**

This switch operates the machine as the client of fax server.

0: No

1: Yes

**CAUTION:**

When changing this switch, make sure to turn OFF and then ON then ON the power supply twice. This is the specification for changing the fax configuration and is the same specification as adding the Fax Board to the existing machine.

**Details of Bit 4**

This is the switch to set to display the send job stop confirmation screen if the Stop key is pressed during sending fax.

0: No

1: Yes

**Details of Bit 5**

This is the switch to set to stop the ongoing send job or incomplete send job if the Stop key is pressed during sending fax.

0: Incomplete send job

1: Ongoing send job

## Setting of Menu Switch (MENU)

### Configuration of Menu Switches

Sssw	Menu	Num	Ncu	Type	IPFAX	Print	Clear	Test	Report

No.	Function	Scope of selection
005	NL equalizer	1: ON, 0: OFF
006	Phone line monitoring	0 to 3
007	Transmission level (ATT)	8 to 15 (ex: 15 = -15 dBm)
008	Upper limit for V.34 modulation speed	0: 3429, 1: 3200, 2: 3000, 3: 2800, 4: 2743, 5: 2400
009	Upper limit for V.34 data speed	0 to 13
010	Frequency of pseudo CI signal	0: 50 Hz, 1: 25 Hz, 2: 17 Hz

#### 005: NL equalizer

Select ON/OFF of NL equalizer.

Select "1: ON" in the case of frequent errors caused by line status at the time of communication.

#### NOTE:

Error codes caused by line status at the time of transmission

##100, ##101, ##102, ##104, ##201, ##281, ##282, ##283, ##750, ##755, ##765, ##774, ##779, ##784, ##789

Error codes caused by line status at the time of reception

##103, ##107, ##114, ##201, ##790, ##793

#### 006: Phone line monitoring

Set whether to make monitoring tone of the phone line from the speaker.

- 0 (DIAL):  
To make monitoring tone of the phone line from the speaker from the start of line connection until the DIS.
- 1:  
To make monitoring tone of the phone line from the speaker from the start of communication until the completion.
- 2:  
Not used
- 3 (OFF):  
There will be no monitoring tone of the phone line from the speaker.

#### 007: ATT transmission level

Set the transmission level (ATT).

Increase the transmission level (make it closer to 8) in the case of frequent errors caused by line status at the time of communication.

**NOTE:**

Error codes caused by line status at the time of transmission

##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

Error codes caused by line status at the time of reception

##103, ##106, ##107, ##201, ##793

**008: Upper limit for V.34 modulation speed**

Select the upper limit of the modulation speed (baud rate) in the V.34 primary channel.

When 4 (2743 baud) is selected, the communication is actually performed at 2400 baud.

**009: Upper limit of V.34 data speed**

Select an upper limit of data transmission speed in the V.34 primary channel in the range between 2.4k and 33.6kbps at 2400bps intervals (0: 2.4 kbps to 13: 33.6 kbps).

**010: Pseudo CI signal frequency**

Set pseudo CI signal frequency.

Depending on the type of external phones, there is no ring tone when the FAX/TEL switching function is working. Change the pseudo CI signal frequency when there is no ring tone.

## Setting of Numeric Parameter (NUMERIC Param.)

### Configuration of Numeric Parameters

Sssw	Menu	Num	Ncu	Type	IPFAX	Print	Clear	Test	Report
				<1/10>				<READY>	
001				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
002				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
003				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
004				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
005				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
006				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
007				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					
008				xxxxx ← {(yyyyy)}; {aaaaa~bbbbb}					

No.	Function	Setting range	Default value
002	RTN transmission condition (1)	1 to 99%	10
003	RTN transmission condition (2)	2 to 99 times	15
004	RTN transmission condition (3)	1 to 99 lines	12
005	NCC pause time (before ID code)	1 to 60 sec	4
006	NCC pause time (after ID code)	1 to 60 sec	4
007	Prepose time at the time of making a call	0 to 9999 (x 10 ms)	0
009	Comparing the number of digits between the sender's telephone number and the receiver's telephone number	0 to 20 digits	0
010	Line connection identification time	0 to 9999 (x 10 ms)	5500
011	T.30 T1 timer (for reception)	0 to 9999 (x 10 ms)	3500
013	T.30 EOL timer	500 to 3000 (x 10 ms)	1300
015	Hooking detection time	0 to 999	120
016	Time until a temporary response is obtained when switching FAX/TEL	0 to 9	4
017	Pseudo RBT signal pattern ON time	0 to 999	100
018	Pseudo RBT signal pattern OFF time (short)	0 to 999	0
019	Pseudo RBT signal pattern OFF time (long)	0 to 999	200
020	Pseudo CI signal pattern ON time	0 to 999	100
021	Pseudo CI signal pattern OFF time (short)	0 to 999	0
022	Pseudo CI signal pattern OFF time (long)	0 to 999	200
023	CNG detection level when switching FAX/TEL	0 to 7	4
024	Pseudo RBT transmission level when switching FAX/TEL	10 to 20 (TYPE = STANDARD)	20
025	CNG monitoring time when the answering phone connection function is set		
026	Silent detection level when the answering phone connection function is set		
027	V.21 low-speed flag preamble detection time	20 (-10 ms)	0
028	Off-hook PCB duty settings	1 to 99%	0 (50%)
080	Transmission number restriction: Outside line transmission number *1	0 to 9999	0

\*1 : Supported on the platform version 307 or later

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

Set the RTN signal transmission condition.



In the case of frequent errors caused by RTN signal transmission at the time of reception, increase the parameters to loosen the RTN signal transmission condition.

**NOTE:**

Error codes caused by RTN signal transmission at the time of reception

##104, ##107, ##114, ##201

RTN signal transmission condition (1) is the ratio of error lines for the total number of lines per page of the received image.

RTN signal transmission condition (2) is the reference value (\*2) of burst error (\*1).

RTN signal transmission condition (3) is the number of errors that fail to meet the reference value of burst error.

\*1: Burst error (transmission errors with several continued lines)

\*2: Reference value (When "15" is set, transmission error with 15 consecutive lines is recognized as a burst error.)

When any of the above conditions is detected during reception of image signals, RTN signal is sent after reception of the procedure signal from the sending machine. Increasing such parameter sends less RTN signal.

**005: NCC pause time (before ID code)**

Set the pause time to be automatically entered between the access code and ID code when dialing on NCC (New Common Carrier) line.

**006: NCC pause time (after ID code)**

Set the pause time to be automatically entered between the ID code and the other party's telephone number when dialing on NCC (New Common Carrier) line.

**007: Prepose time at the time of making a call**

When automatically making a call, set the time from closing a line to making a call.

**009: Comparing the number of digits between the sender's telephone number and the receiver's telephone number**

Set the TSI comparing the number of digits (last XX digits) when matching telephone numbers.

**010: Line connection identification time**

Set the line connection identification time.

Increase this parameter in the case of frequent errors caused by line connection status at the time of communication.

**NOTE:**

Error codes caused by line connection status

##005, ##018

The line connection identification time is the duration from when the dial signal is transmitted until the line is disconnected at the sending side, or from when DIS signal is transmitted until the line is disconnected at the reception side.

**011: T.30 T1 timer (for reception)**

Set T1 timer at the time of reception (wait time until receiving the meaningful signal after DIS transmission).

**013: T.30 EOL timer**

Set the receivable 1 line transmission time.

In the case of a long line data length (e.g.: computer FAX), extend the transmission time to prevent reception errors.

**015: Hooking detection time**

Set the hooking detection time.

**016: Time until the primary response is obtained when switching FAX/TEL**

Set the time from when capturing the line until transmission of pseudo RBT at FAX/TEL switching function operation.

**017: Pseudo RBT signal pattern ON time/ 018: Pseudo RBT signal pattern OFF time (short)/ 019: Pseudo RBT signal pattern OFF time (long)**

Set the pattern of pseudo RBT signal to be sent at Fax/Tel switching function operation.

**020: Pseudo CI signal pattern ON time/ 021: Pseudo CI signal pattern OFF time (short)/ 022: Pseudo CI signal pattern OFF time (long)**

Set the pattern of pseudo CI signal to be sent at Fax/Tel switching function operation.

**023: CNG detection level when switching FAX/TEL**

Set the CNG detection level at Fax/Tel switching function operation.

**024: Pseudo RBT transmission level when switching FAX/TEL**

Set the transmission level of pseudo RBT at Fax/Tel switching function operation.

**025: CNG monitoring time when the answering phone connection function is set**

**027: V21 low-speed flag preamble detection time**

Set the period of time for judge detection of V.21 low-speed command preamble.  
Continuous detection for the fixed period of time leads to command analysis.

**028: Off-hook PCB duty settings**

Set the Off-hook PCB duty setting.  
When 0 or a value that is 100 or more is entered, the duty becomes 50%.

**080: Transmission number restriction: Outside line transmission number**

This sets the number permitted to dial to the outside line.  
Only the outside line transmission by the set number is permitted and other numbers are prohibited from transmission.

## Setting of Destination (TYPE)

### Overview

When the type shown on the display is set, all the service data is set to match each country domestic telecommunication standards.

## Setting of Printer Functions (PRINTER)

### Setting of Bit Switch (SSSW)

#### ■ SSSW-SW01

##### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Hold the line (when error code occurs)	Hold	Do not hold
7	Output a print log when DUMP report is output	Output	Do not output

##### Detailed Discussions of Bit 6

Select whether to hold the line when an error code occurs.

However, in the case of vertical scanning prioritized recording, even when 0 is set for Bit 1 and Bit 0, the priority order will be Letter -> A4 -> Legal.

##### Detailed Discussions of Bit 7

Select whether to output a print log at the time of the DUMP report output.

#### ■ SSSW-SW05

##### Functional Construction

Bit	Function	1	0
0	Letter priority	Set	Do not set
1	Legal priority	Set	Do not set
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	To prohibit reduced size printing (A4)	Prohibited	Not prohibited
6	To prohibit reduced size printing (A4)	Prohibited	Not prohibited
7	Vertical scanning prioritized recording	Set	Do not set

##### Detailed Discussions of Bit 0 and 1

When an image which can be printed in 100% magnification and with the same number of divided pages on any of A4, letter and legal is received, set which paper is prioritized for printing.

With the settings of Bit 0 and Bit 1, the priority order of the recording paper is shown in the following table.

Bit 1	Bit 0	Priority order of the recording paper
0	0	A4 -> Letter -> Legal
0	1	Letter -> A4 -> Legal
1	0	Legal -> Letter -> A4
1	1	Letter -> Legal -> A4

However, in the case of vertical scanning prioritized recording, the priority order will be Letter -> A4 -> Legal even when 0 is set for Bit 1 and Bit 0.

##### Detailed Discussions of Bit 5 and 6

Select whether to enable reduced size printing for A4 or LTR.

## Detailed Discussions of Bit 7

Set whether to set vertical scanning prioritized recording.

### Set:

If B4 recording paper and A4 recording paper are set and an A4 extra-long image (\*) is received, printing will be on the B4 recording paper.

### Do not set:

If B5 horizontal recording paper and A4 recording paper are set and a B4 image is received, printing will be by division and on B5 horizontal recording paper.

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

## ■ SSSW-SW06

### Functional Construction

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Reduced printing from A4 to B5	Enable	Disable
6	Not used	-	-
7	Not used	-	-

## Detailed Discussions of Bit 5

Set whether to execute the reduction print that forcibly reduces the received A4 size document into the B5 size. This function is invalid when outputting the report.

## Setting of Numeric Parameter (NUMERIC Param.)

### ■ Numerical Parameter Composition

No.	Function	Setting range	Initial setting	Unit
01	Missing areas of printing image when receiving image with longer length than standard	0 to 9999	12	1 mm
04	Leading edge blank area	0 to 9999	3	1 mm
05	Trailing edge blank area	0 to 9999	3	1 mm

#### <001: printing upon reception of extra-length image>

Use it to set the range of the image to be removed from when printing an extra-length received image.

Lower the parameter to decrease the range if the trailing edge of the received image must be retained (as when it is longer than the effective recording length).

#### <004: leading edge margin>

Use it to set the leading-edge margin for the effective recording length.

#### <005: trailing edge margin>

Use it to set the trailing-edge margin for the effective recording length.

## IPFAX Setting



### ■ BASIC N

Bit	Function	Setting range
2	Session control reception timeout (sec.)	0 to 9999 (0*)
20	Reception start delay time (sec.)	0 to 9999 (0*)
21	BYE sending delay time at transmission (x10 msec.)	0 to 9999 (0*)
22	BYE receiving delay time at transmission (x10 msec.)	0 to 9999 (0*)

### ■ NETA NUM

Bit	Function	Setting range
1	T0 timer(Timer C) for IPFAX(sec.)	0 to 9999 (55*)

### ■ NETC NUM

Bit	Function	Setting range
1	SW for adjusting the speed at VoIPGW transmission [%]	0 to 9999* However, the value is fixed in the case of ECM, and is corrected by adding 5 %.
2	VoIPGW buffer size [byte]	0 to 9999* However, when the value is 0, it is internally interpreted as 200.
3	Packet division size [byte]	0 to 9999* However, when the value is 0, it is internally interpreted as 66.
4	Number of VoIPGW buffer reset frames at ECM * At ECM transmission, when frames of the number of this NUM value have been transmitted, the next frames will be transmitted after the VoIPGW buffer becomes empty.	0 to 9999* However, when the value is 0, it is internally interpreted as 16.

### ■ T.38 Bit Setting

#### ● SW01

Bit	Function	Setting range	
		1	0
1	German mode is effective during T.38 communication.	Effective	Invalid *
2	T.38 significant bit of DIS (bit123) is ignored. (When this SW is effective, the other party's machine is regarded as IPFAX even if DIS bit123 is 0.)	Ignore	Not ignore
3	Transmission ECM = OFF setting	Effective	Invalid *
4	Reception ECM = OFF setting	Effective	Invalid *

### ■ T.38 NUM Setting

Bit	Function	Setting range
1	High-speed flag sending time of ECM mode for IPFAX (x10 msec.).	0 to 9999 (0*)
2	WAIT time from the close of T.38 to the close of SIP: Unit; second (However, the setting becomes 2 seconds even if the setting is changed to 2 or more. ).	0 to 9999 (1*)

## Initialization of Set Value (CLEAR)

### Overview

Selecting the following items enables the applicable data to be initialized.

When clear is executed, the setting items and numeric values for various parameters are set back to the factory setting values.

Item	Data to be initialized
TEL	Registered telephone number data (*1)
USSW SW	Contents registered in the user data and service mode #1 to #3 Memory management contents of the user data are not cleared. Image data stored in the memory is not cleared.
SRV SW	Contents of the user data and service mode #1 to #3, and #7
NCU	Contents of service mode #4
SRV DATA	Contents of the system dump list
REPORT	Contents of the communication management report
ALL	All Settings/Registration data (*1) except service mode #5 TYPE (*2)
COUNTER	The number of printed sheets, the number of read sheets
IPFAX	Contents of service mode IPFAX

\*1: With models that can register information other than fax in destination, the telephone number data is not cleared even when TEL (service mode > FAX > Clear > TEL) or ALL (service mode > FAX > Clear > ALL) is executed.

To clear the data, execute the following service mode on the host machine.

COPIER > Function > CLEAR > ADRS-BK

\*2: When service mode > FAX > Clear > ALL is executed, a value is registered in service mode > FAX > TYPE according to the location of the host machine (in the case of Japanese model, "STANDARD" is registered).

#### CAUTION:

If service mode > FAX > Clear > ALL is executed with a fax job waiting to be processed and the fax job is cancelled before the power is turned OFF and then ON, E674-0100 may occur when the power is turned OFF and then ON.

If E674-0100 occurs, the machine can be recovered by executing service mode > FAX > Clear > ALL again and then turning OFF and then ON the power.

In order to prevent the foregoing error, be sure to check for any remaining fax jobs before executing service mode > FAX > Clear > ALL. If there is a remaining job, cancel the job and then execute service mode > FAX > Clear > ALL.

## Test Mode (TEST)

### Overview

#### ■ Test Mode Construction

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
ISDNMOD2									
MODEM									
MODEM2									
FACULTY									
FACULTY2									
DATA SET									
ISDNMOD									

Using Test Mode

1. Press the desired item to highlight; then, press the OK key to bring up its screen.

The following table shows text mode items that are valid and invalid when a fax board is installed:

Yes: may be used

-: not used

Level 1	Level 2	Fax Board present
MODEM	RELAY-1	Yes
	RELAY-2	-
	FREQ	Yes
	G3TX	Yes
	DTMFTX	Yes
	TONERX	-
	V34G3TX	Yes
FACULTY	G3 4800TX	Yes
	SPEAKER	-
	DETECT1	-
	DETECT2	-
	DETECT3	-
	VOICETX	-
DATA SET		-
ISDNMOD		-
ISDNMOD2		-

#### CAUTION:

Do not use items in the table identified as "-."



## MODEM Test

### ■ Relay Test (RELAY-1)

Use it to see if the individual relays on the NCU board go on and off as expected.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>		<RELAY-1>		<1/1>		<READY>			
CML		OFF							
P		OFF							
S		OFF							
H		OFF							
D		OFF							
R		OFF							

Using Text Mode

1. From the relays indicated on the screen, select the one you want to test; then, turn it off or on using the Up/Down key. (Some of the relays may not actually exist on the NCU board.)

### ■ Frequency Test (FREQ)

Of the items indicated below, press one; in response, the DC circuit will be closed and the selected frequency will be transmitted using the tone transmission function of the modem. You can also monitor the transmission signal by listening to the sound generated by the speaker. To stop the operation and end test mode, press the  key.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>		<FREQ>		<1/1>		<READY>			
RBT									
462Hz									
1100Hz									
1300Hz									
1500Hz									
1650Hz									
1850Hz									
2100Hz									

**CAUTION:**

'RBT' is not currently supported.

### ■ G3 Signal Transmission Test (G3 Tx)

Of the items indicated below, press one. In response, the DC circuit will be closed and the selected frequency will be transmitted using the G3 signal transmission function of the modem. You can also monitor the transmission signal by listening to the sound generated by the speaker. To stop the operation and end test mode, press the  key.


Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>	<G3TX>	<1/2>	<READY>						
				300bps					
				2400bps					
				4800bps					
				7200bps					
				9600bps					
				TC7200					
				TC9600					
				12000bps					
<input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="▽"/> <input type="button" value="△"/> <input type="button" value="↵"/> <input type="button" value="OK ↵"/>									

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<MODEM>	<G3TX>	<2/2>	<READY>						
				14400bps					
				300-ALL0					
				300-ALL1					
				300-1:1					
				300-1:4					
				300-4:1					
<input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="▽"/> <input type="button" value="△"/> <input type="button" value="↵"/> <input type="button" value="OK ↵"/>									

**CAUTION:**

'300-ALL0' through '300-4:1' are not currently supported.

## ■ DTMF Transmission Test

Of the items indicated below, press one; in response, the DC circuit will be closed and the selected DTMF signal will be transmitted using the DTMF transmission function of the modem. You can also monitor the transmission signal by listening to the speaker. To stop the operation and to end test mode, press the  key.


Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report							
<MODEM>	<DTMF TX>	<1/1>	<READY>													
				LONG												
					0	1	2	3	4	5	6	7	8	9	*	#
<input type="button" value="←"/> <input type="button" value="→"/> <input type="button" value="▽"/> <input type="button" value="△"/> <input type="button" value="↵"/> <input type="button" value="OK ↵"/>																

- From the items indicated on the screen, select the item you want to test; then, press the key on keypad that corresponds to the DTMF signal to test.

**CAUTION:**

'SHORT' is not currently supported.

## ■ V.34 G3 Signal Transmission Test (V34G3Tx)

Select the transmission speed you want to test, and then select a modulation speed (baud rate); in response, the V.34 G3 transmission signal will be transmitted to the telephone line terminal and the speaker. To stop the operation and to end test mode, press the  key.


Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
	<MODEM>			<V34G3TX>			<1/1>		<READY>
	SPEED			33600bps					
	3429baud								
	3200baud								
	3000baud								
	2800baud								
	2743baud								
	2400baud								
	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>←</span> <span>→</span> <span>▽</span> <span>△</span> <span>↵</span> <span>OK ↵</span> </div>								

Using Text Mode

- Select 'SPEED', and then select the speed you want to test using the Up/Down key.
- Select the baud rate you want to test.

## Function Test

### ■ 4800-bps Signal Transmission Test

The DC circuit will be closed, and a 4800-bps signal will be transmitted using the 4800-bps signal transmission function of the modem. You can also monitor the transmission signal by listening to the speaker. To stop the operation and end test mode, press the  key.

Sssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
	<FACULTY>			<G34800TX>			<1/1>		<READY>
	G34800TX								
	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>←</span> <span>→</span> <span>▽</span> <span>△</span> <span>↵</span> <span>OK ↵</span> </div>								

## Service Report (REPORT)

### System Data List

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

2003 09/02 TUE 12:00 FAX 001

```

*****
*** SYSTEM DATA LIST ***
*****
SERIAL NO          XXXXXXXX

#1 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

#2 MENU
  01:              ..... 0
  02:              ..... 0
  03:              ..... 0
  04:              ..... 0
  05:              ..... 0
  06:              ..... 0
  07:              ..... 10
  08:              ..... 0
  09:              ..... 0
  10:              ..... 2

```

### System Dump List

**NOTE:**

A system dump list is generated when you execute the following in service mode: FAX > Report > DUMP.

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

2013 04/05 FRI 12:00 FAX

001

```

*****
*** SYSTEM DUMP LIST ***
*****

SERIAL NO          XXXXXXXX
CLEAR DATE         2013 02/03 FRI 13:37

*1 TX = 1298
*2 A4 = 1302 B4 = 49 A3 = 27 LTR = 0 LGL = 0
*1 RX = 1572
*2 A4 = 1581 B4 = 59 A3 = 59 LTR = 0 LGL = 0
*3 NWSPD = 0
*3 33600 = 1 31200 = 0 28800 = 2986 26400 = 0 24000 = 0
   21600 = 0 19200 = 0 16800 = 0 14400 = 0 12000 = 0
   9600 = 0 7200 = 0 4800 = 0 2400 = 0
   14400 = 83 12000 = 1 TC9600 = 0 TC7200 = 0
   14400 = 0 14400 = 0
   9600 = 2 7200 = 0 4800 = 4 2400 = 0
*4 STD = 60 FINE = 2839 SUPER = 107 ULTRA = 71
*5 MH = 7 MR = 32 MMR = 9 JBIG = 3029 JPEG = 0
*6 G3 = 37 ECM = 3040 G4 = 0 IPECM = 0 IPG3 = 0
*7 #000 0 0 0 0 0 0 0 0
      0 0 0 0 0 0 0 0
      0 0 2 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
      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 22 0 0 0 0
      0 0 0 0 0 0 0 0
  
```

- \*1: RX, total reception number of times; TX, total transmission number of times.
  - \*2: number of pages sent/received according to original size.
  - \*3: number of pages sent/received in connection with different modem speeds (NWSPD : For IPFAX communication count).
  - \*4: number of communication pages by resolution(Standard, Fine, Super Fine, Ultra Fine).
  - \*5: number of pages sent/received in connection with different coding methods.
  - \*6: number of transmissions/receptions according to mode.
  - \*7: number of occurrences according to error code.
- Indication sample

```

#280      1          7          3      0      0
          ↑          ↑          ↑
    number of errors ##280  number of errors ##281  number of errors ##282
  
```

It provides error information on the 3 most recent communications.

```

2003 09/02 TUE 12:00 FAX
#1 ----- #1 LATEST #000
*2 START TIME 09/02 10:00
*3 OTHER PARTY 12345678
*4 MAKER CODE 10001000
*5 MACHINE CODE 0100001 00000000
RCV V8 FRAME E0 S1 85 D4 90 7E 00 00 <-Not displayed when IPFAX is enabled
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00
*6 Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 00000001 (bit 64)
(bit 65) 00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)
*7 Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 00000001 (bit 64)
(bit 65) 00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)

#8 -----
Rx : NSF CSI DIS CFR MCF MCF
Tx : NSS TSI DCS PIX-288 PPS-NUL PIX-288 PPS-NUL PIX-288 PPS-NUL

#2 #000
START TIME 09/02 09:30
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV V8 FRAME E0 S1 85 D4 90 7E 00 00 <-Not displayed when IPFAX is enabled
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00
*6 Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 00000001 (bit 64)
(bit 65) 00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)
*7 Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 00000001 (bit 64)
(bit 65) 00000001 00000001 00000100 00000000 00000000 00000000 00000000 00000000 (bit 128)

#3 OLDEST #000
START TIME 09/02 09:00
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV V8 FRAME E0 S1 85 D4 90 7E 00 00
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 00
ERR SECTXB 00
ERR SECRXB 00

```

- \*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 128 of DIS, DCS, or DTC that has been received.
- \*7: bit 1 through bit 128 of DIS, DCS, or DTC that has been transmitted.
- \*8: RX, procedural signal received; TX, procedural signal transmitted.

## Error Transmission Report

An error transmission report is an error transmission report together to which a service error code and error dump list is attached.

```

2003 09/02 TUE 12:00 FAX
*****
*** FAX ERROR TX REPORT ***
*****
TX FUNCTION WAS NOT COMPLETED

JOB NO. 1269
DESTINATION ADDRESS 12345678
PSWD/SUBADDRESS
DESTINATION ID
ST. TIME 09/02 09:00
USAGE T 01'50
PGS. 1
RESULT NG
1 ##750

START TIME 09/02 09:00
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV V8 FRAME E0 S1 85 D4 90 7E 00 00
SYMBOL RATE 3429 baud
DATA RATE 28800 bps [V.34]
TX LVL REDUCTION 0
ERR ABCODE 92
ERR SECTXB 8A
ERR SECRXB 80
Rx : (bit 1) 00000100 01110111 01011111 00100011 00000001 10101001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 00000000 (bit 96)
Tx : (bit 1) 00000000 01000010 00011111 00100001 00000001 00000001 00000001 (bit 56)
(bit 57) 00000001 00000001 00000100 00000000 00000000 (bit 96)

Rx : NSF CSI DIS CFR MCF MCF
Tx : NSS TSI DCS PIX-288 PPS-NUL PIX-288 PPS-NUL PIX-288 PPS-NUL

Rx : MCF MCF MCF
Tx : PIX-288 PPS-NUL PIX-288 PPS-EOP DCN

```



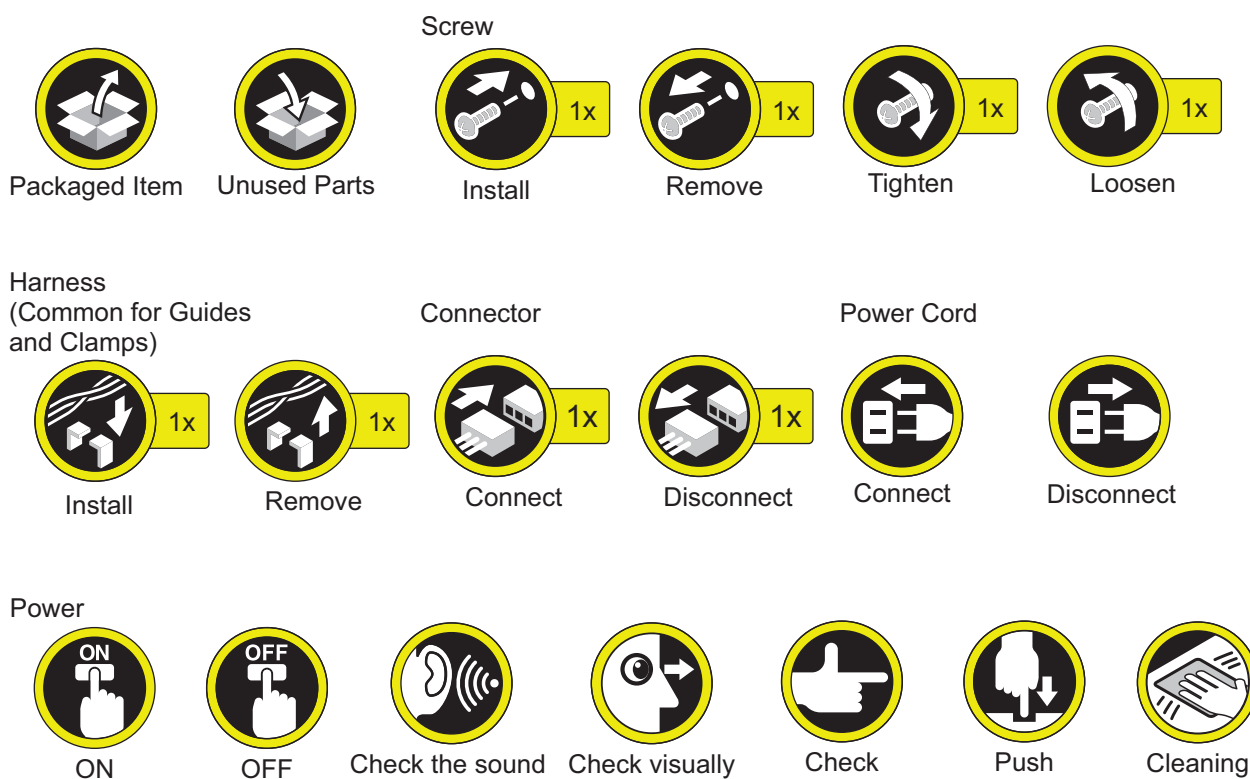
# Installation

How to Utilize This Installation	
Procedure.....	51
Pre-checks.....	52
Checking the Contents.....	53
Installation Procedure.....	54
Checking the Operation.....	68

## How to Utilize This Installation Procedure

### Symbols

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





## Pre-checks

### 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.

- F632501

### Points to Note at Installation

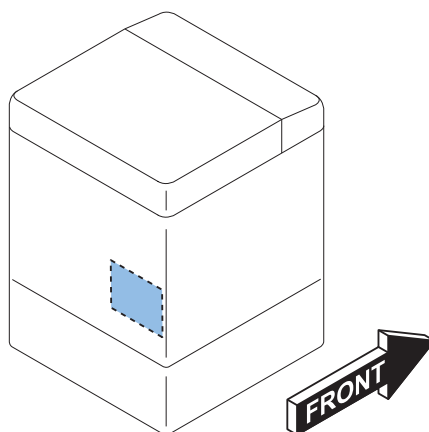
- When installing the Super G3 2nd Line Fax Board and this equipment at the same time, after checking "Checking the Contents", and install them following the Installation Procedure for Super G3 2nd Line Fax Board.
- For "Checking the Operation", refer to this document.

### Check Items When Turning OFF the Main Power

Check that the main power switch is OFF.



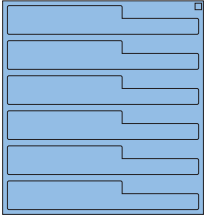

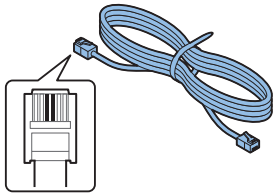
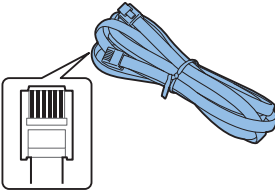
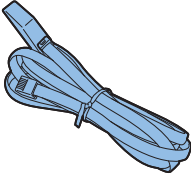
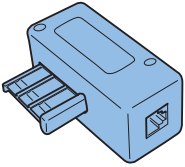
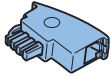
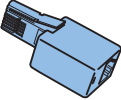

1. Turn OFF the main power switch of the host machine.
2. Be sure that display in the Control Panel and the lamp of the main power supply are turned off, then disconnect the power plug.

### Installation Outline Drawing



## Checking the Contents



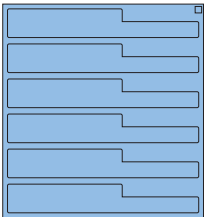

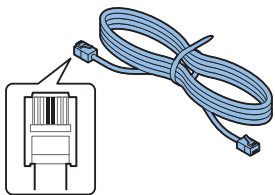
### < Super G3 FAX Board-AS1 >

<input type="checkbox"/> [1] FAX Unit X 1 	<input type="checkbox"/> [2] Screw (TP; M3x4 Black) X 1 	<input type="checkbox"/> [3] Modular Label X 1 	<input type="checkbox"/> [4] Fax Approval Label X 1 Included for USA and Taiwan 
<input type="checkbox"/> [5] Telephone Cord (2 Contact type) X 1 	<input type="checkbox"/> [6] Telephone Cord (6 Contact type) (only for Europe) X 1 	<input type="checkbox"/> [7] PTT Cable (only for Asia) X 1 	<input type="checkbox"/> [8] PTT Plug (Only for France) X 1 
<input type="checkbox"/> [9] PTT Plug (Only for Germany) X 1 	<input type="checkbox"/> [10] PTT Plug (Only for U.K.) X 1 	<input type="checkbox"/> [11] Modular Cover (only for Europe) X 1 	

### <Others>

- Including guides

### < Super G3 FAX Board-AS2 >

<input type="checkbox"/> [1] FAX Unit X 1 	<input type="checkbox"/> [2] Screw (TP; M3x4 Black) X 1 	<input type="checkbox"/> [3] Modular Label X 1 	<input type="checkbox"/> [4] Fax Approval Label X 1 
<input type="checkbox"/> [5] Telephone Cord (2 Contact type) X 1 			

### <Others>

- Including guides

## Installation Procedure

### NOTE:

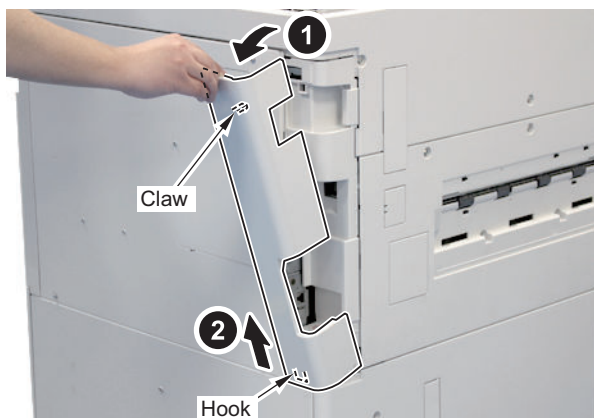
- When installing the Super G3 2nd Line Fax Board and this equipment at the same time, check the parts included in the package, and install them following the Installation Procedure for Super G3 2nd Line Fax Board.
- For "Checking the Operation", refer to this document.

## In the Case of iR-ADV 8500/6500 Series



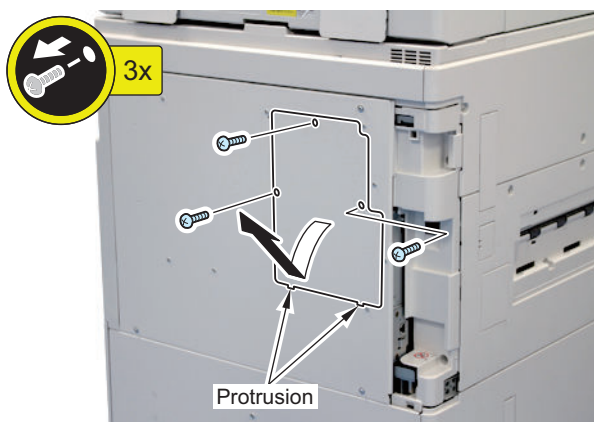
### 1. Remove the Left Rear Cover.

- 1 Claw
- 1 Hook



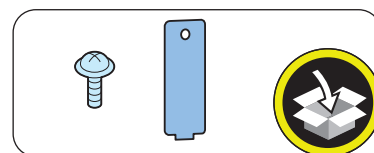
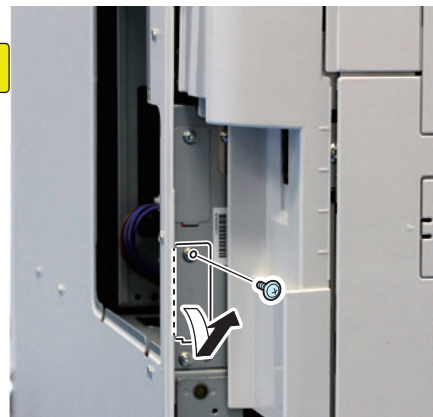
### 2. Remove the Rear Cover 2.

- 3 Screws
- 2 Protrusions



### 3. Remove the Face Cover. (The removed parts will not be used.)

- 1 Screw (used in the next step only in EUR)
- 1 Protrusion

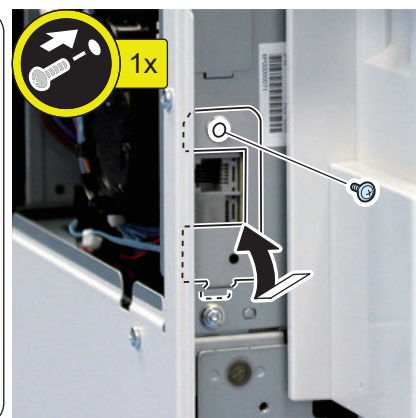


### NOTE:

This step is only for Europe.

### 4. Install the Modular Cover.

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)



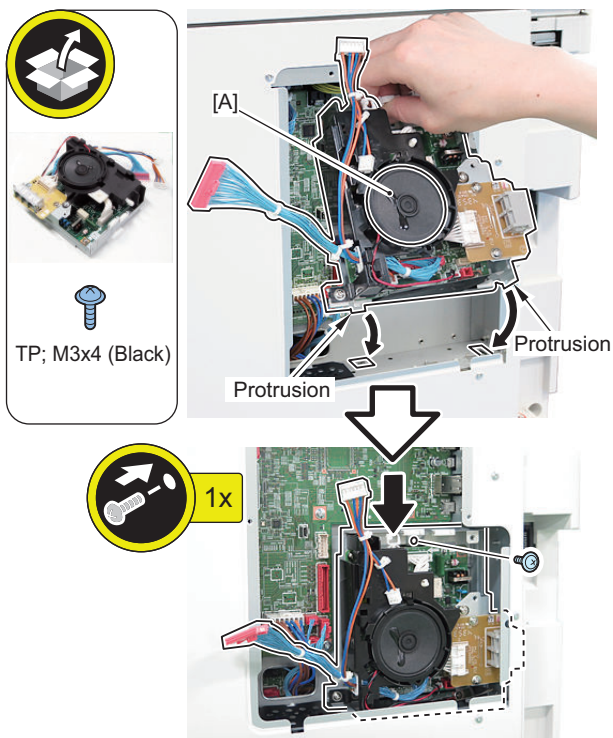


**5. Remove the tape and, install the Fax Unit.**

- 2 Protrusions
- 1 Screw (TP; M3x4: Black)

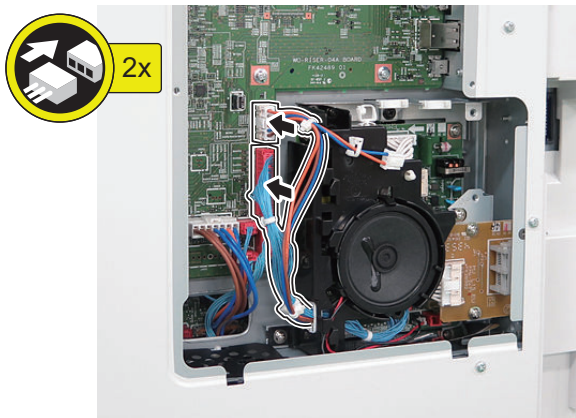
**CAUTION:**

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



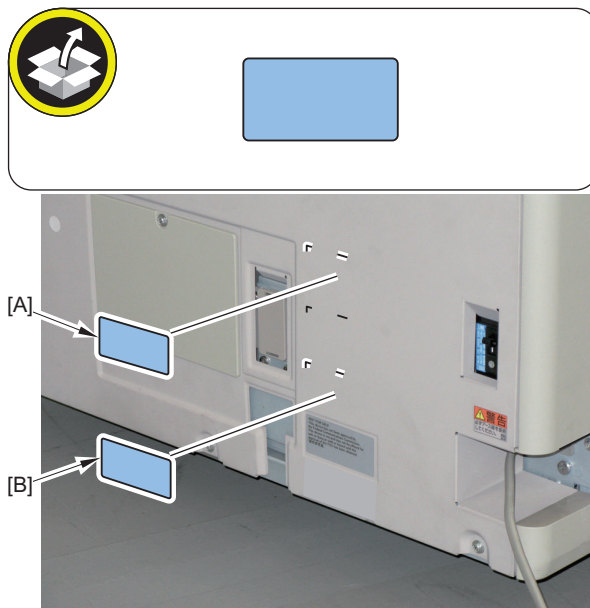
**6. Connect the 2 cables of the FAX Unit.**

- 2 Connectors

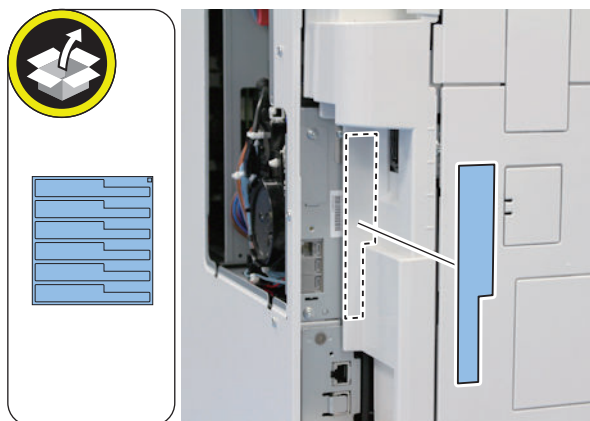


**7. Affix the following FAX Approval Label.**

- [A] For USA
- [B] For Taiwan



**8. Affix the appropriate Modular Label over the existing label.**

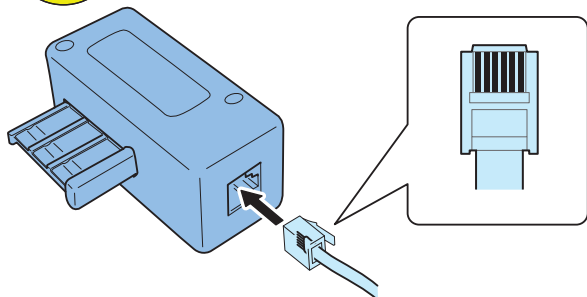
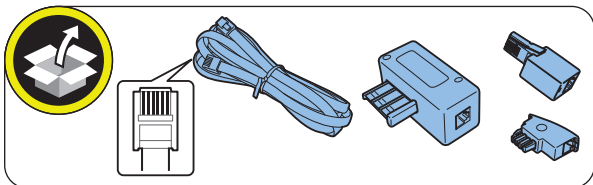




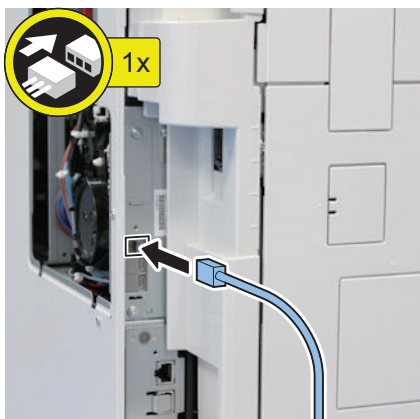
**NOTE:**

This step is only for Europe.  
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.

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

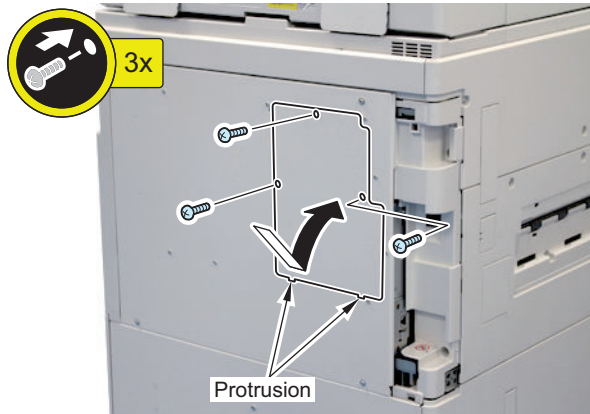


10. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.



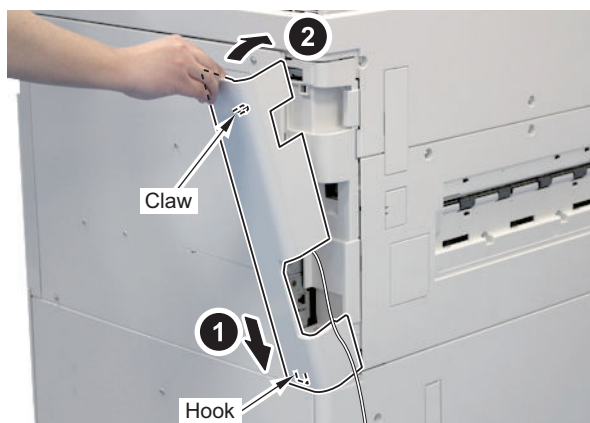
11. Install the Rear Cover 2.

- 2 Protrusions
- 3 Screws



12. Install the Left Rear Cover.

- 1 Hook
- 1 Claw



13. Connect the Power Plug to the outlet.

14. Turn ON the main power switch.

**CAUTION:**

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

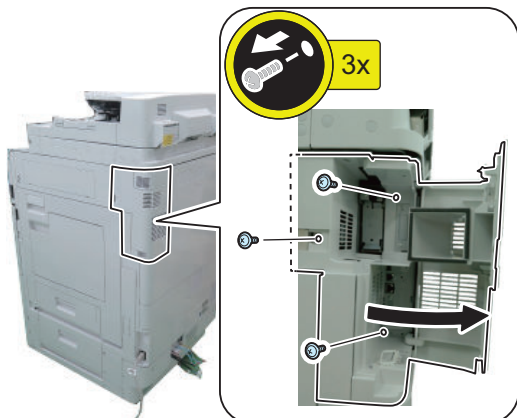
**NOTE:**

After completion of this procedure, proceed to "Checking the Operation" on page 68.

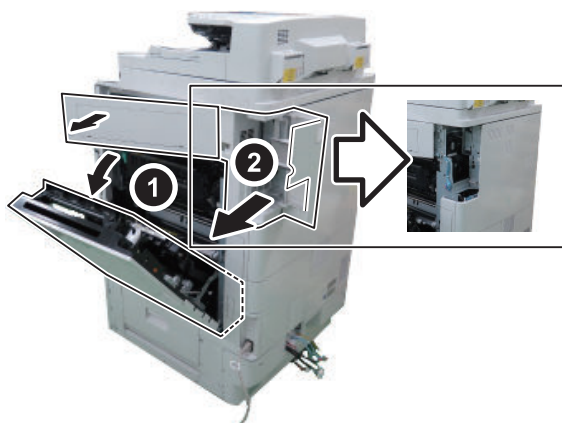
## In the Case of iR-ADV C5500 Series



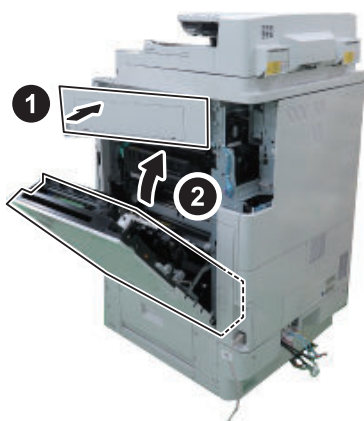
1. Open the Right Rear Cover 1 and remove the 3 screws.



2. Open the Right Lower Cover (the Right Upper Cover will open at the same time), and remove the Right Rear Cover 1.

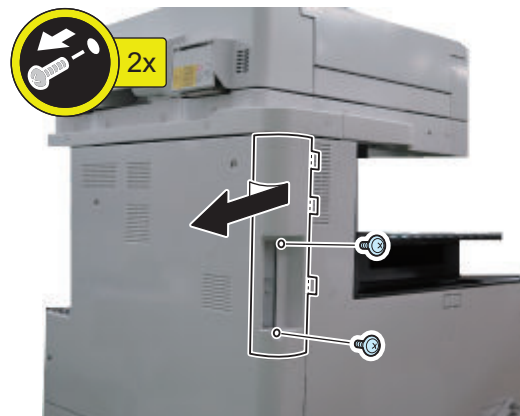


3. Close the Right Upper Cover and the Right Lower Cover.



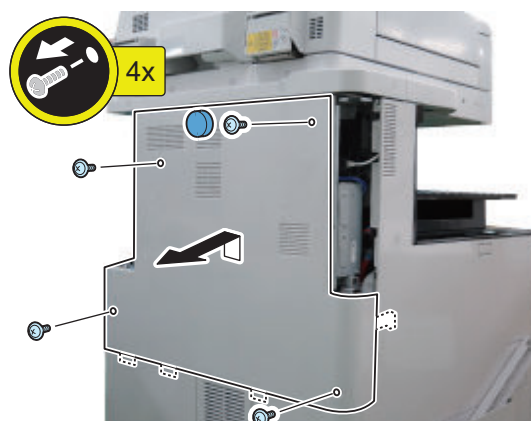
4. Remove the Left Rear Cover.

- 2 Screws
- 3 Protrusions



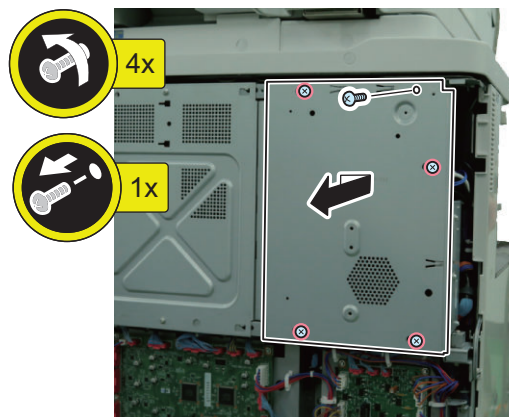
5. Remove the Rear Cover.

- 1 Rubber Cap
- 4 Screws
- 1 Claw
- 3 Protrusions



6. Remove the Controller Box Cover.

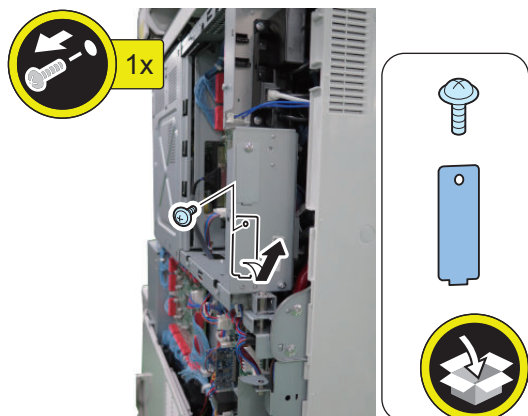
- 5 Screws





**7. Remove the Face Cover. (The removed parts will not be used.)**

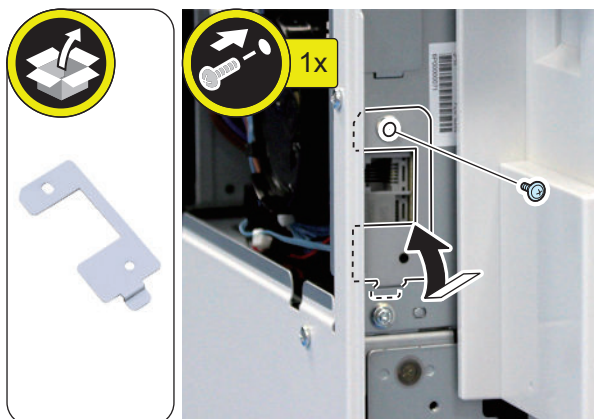
- 1 Screw (used in the next step only in EUR)
- 1 Protrusion



**NOTE:**  
This step is only for Europe.

**8. Install the Modular Cover.**

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)

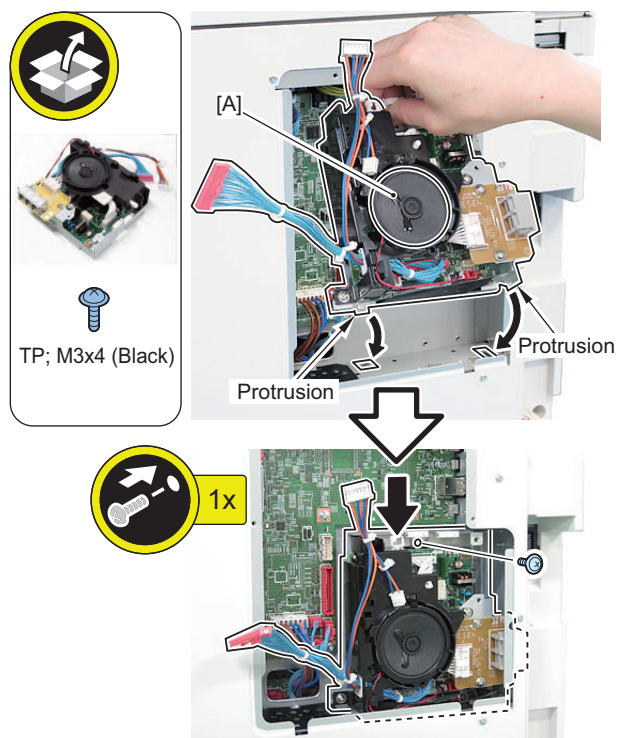


**9. Remove the tape and, install the Fax Unit.**

- 2 Protrusions
- 1 Screw (TP; M3x4; Black)

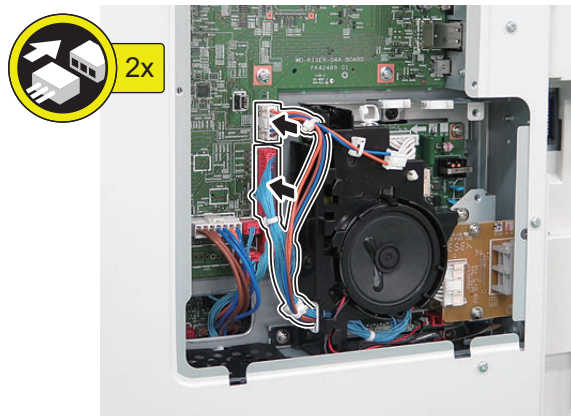
**CAUTION:**

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



**10. Connect the 2 cables of the FAX Unit.**

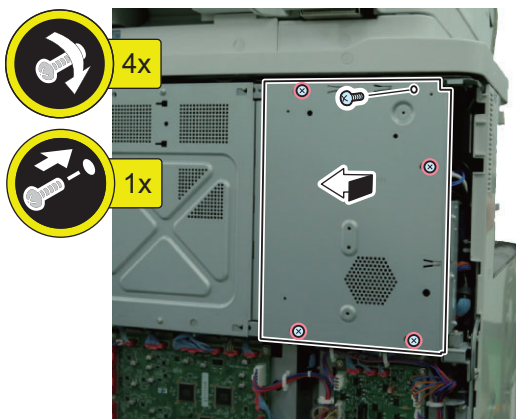
- 2 Connectors



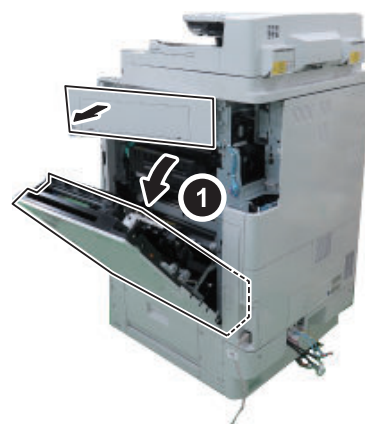


**11. Install the Controller Box Cover.**

- 5 Screws

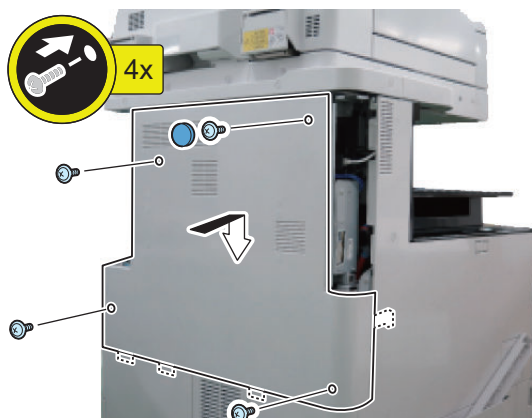


**14. Open the Right Lower Cover (the Right Upper Cover will open at the same time).**

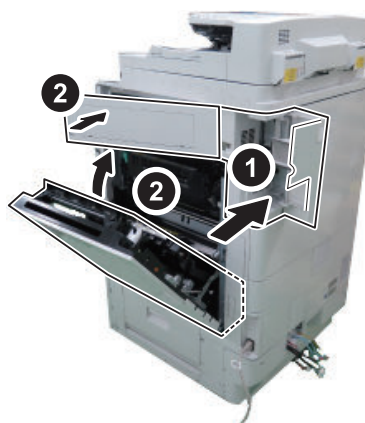


**12. Install the Rear Cover.**

- 3 Protrusions
- 1 Claw
- 4 Screws
- 1 Rubber Cap

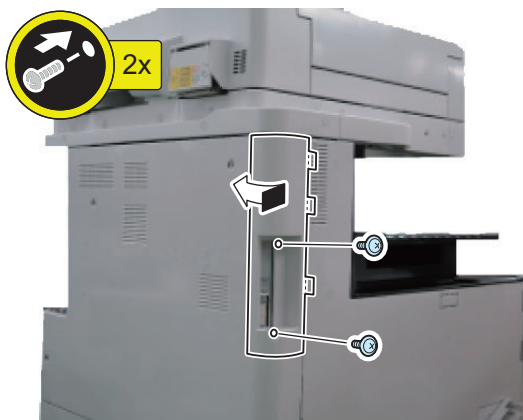


**15. Install the Right Rear Cover 1, and close the Right Upper Cover and the Right Lower Cover.**



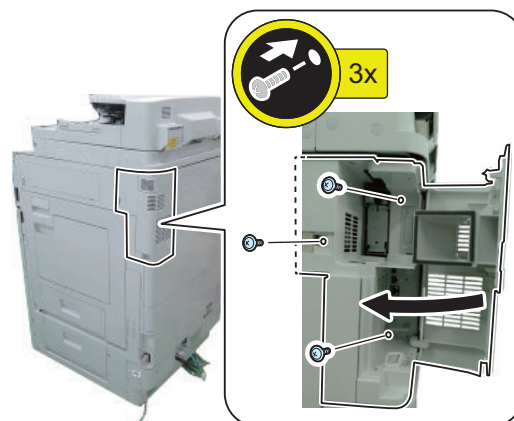
**13. Install the Left Rear Cover.**

- - 3 Protrusions
- 2 Screws



**16. Close the Right Rear Cover 1.**

- 3 Screws



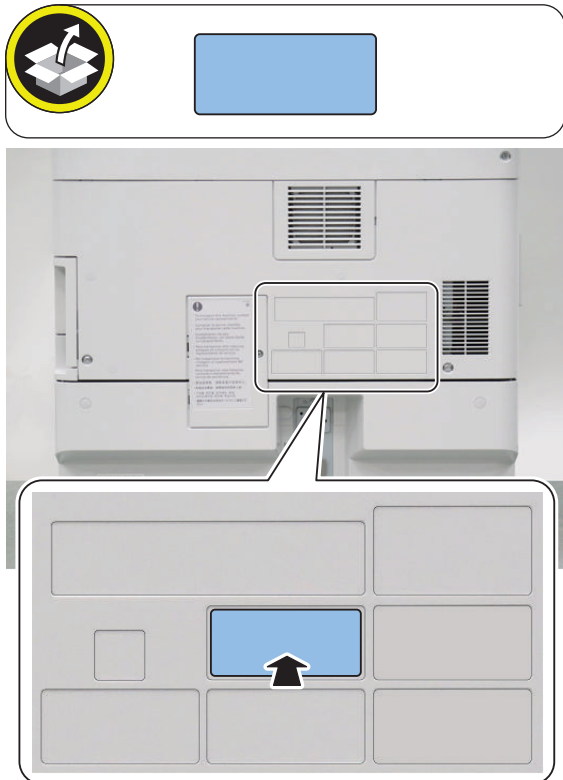


□

**NOTE:**

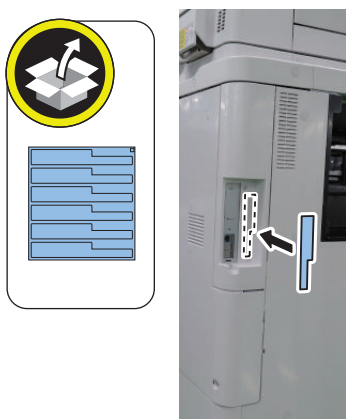
This step is only for USA and Taiwan.

17. Affix the following FAX Approval Label.



□

18. Affix the appropriate Modular Label to the place shown in the figure.

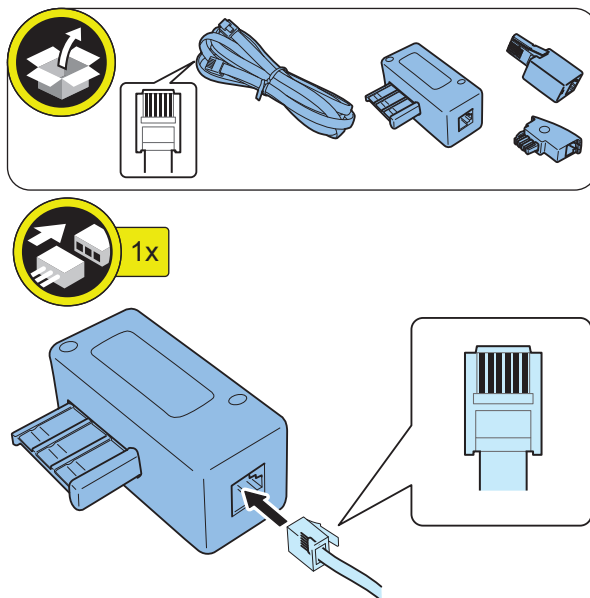


□

**NOTE:**

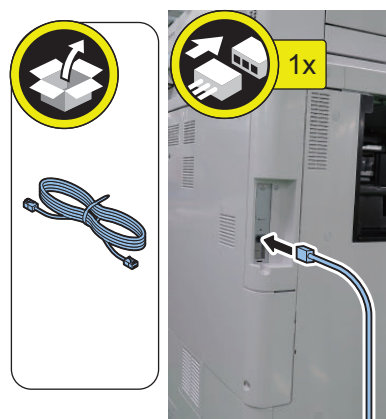
This step is only for Europe.  
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.

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



□

20. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.



□

21. Connect the Power Plug to the outlet.

22. Turn ON the main power switch.

**CAUTION:**

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

**NOTE:**

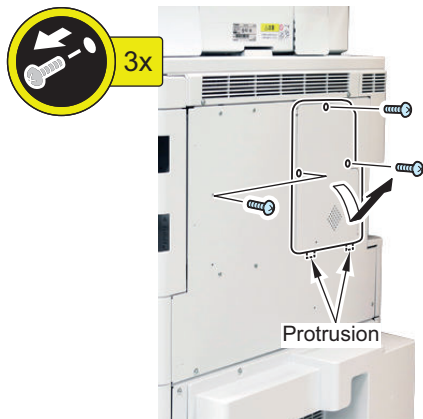
After completion of this procedure, proceed to "Checking the Operation" on page 68.

**In the Case of iR-ADV C7580/ C7570/C7565 Series**



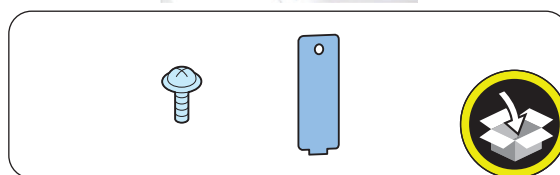
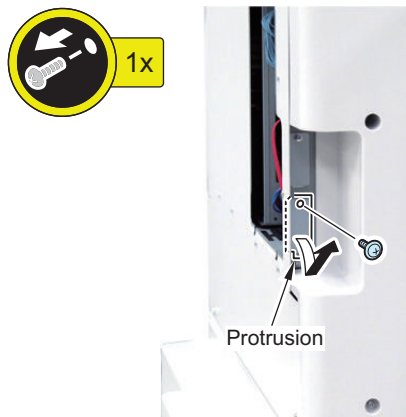
1. Remove the Rear Cover 2.

- 3 Screws
- 2 Protrusions



2. Remove the Face Cover. (The removed parts will not be used.)

- 1 Screw (used in the next step only in EUR)
- 1 Protrusion

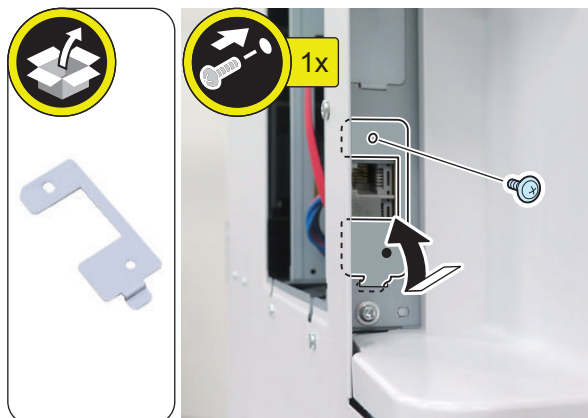


**NOTE:**

This step is only for Europe.

3. Install the Modular Cover.

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)



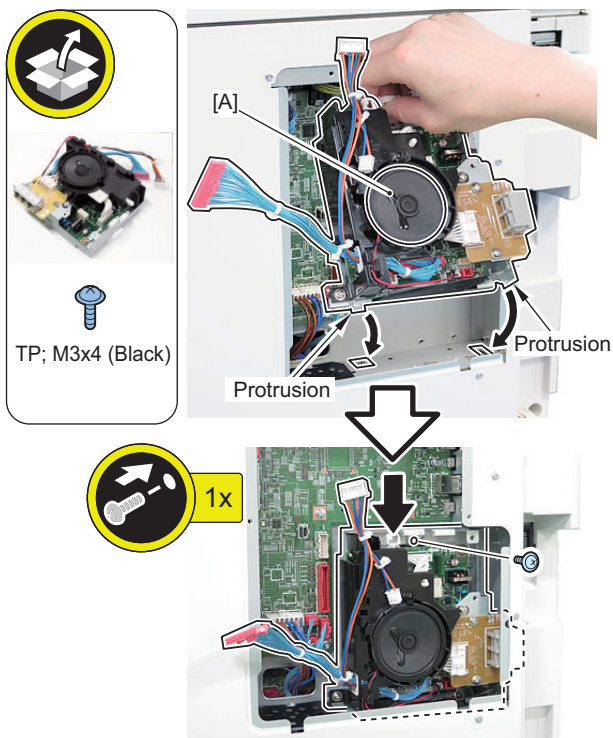


**4. Remove the tape and, install the Fax Unit.**

- 2 Protrusions
- 1 Screw (TP; M3x4: Black)

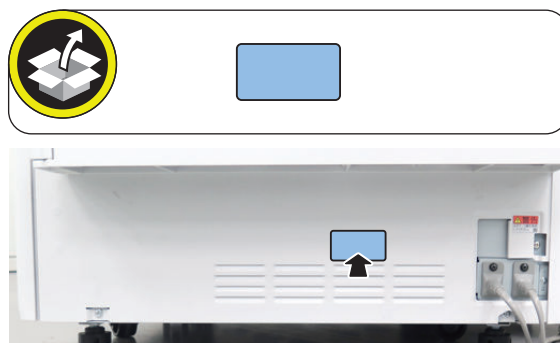
**CAUTION:**

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.

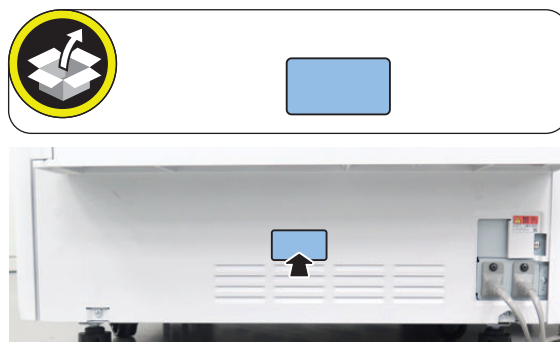


**6. Affix the following FAX Approval Label.**

- For USA

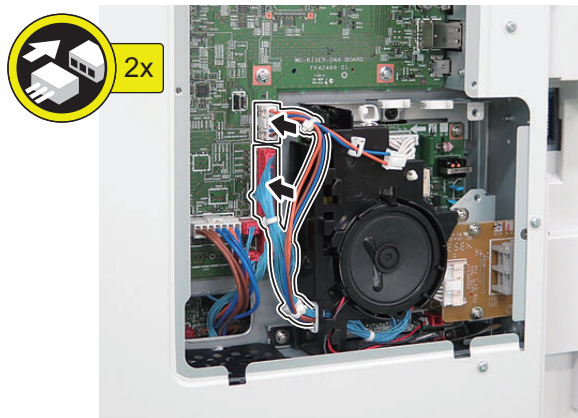


- For Taiwan

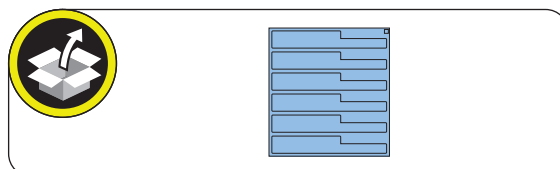


**5. Connect the 2 cables of the FAX Unit.**

- 2 Connectors



**7. Affix the appropriate Modular Label over the existing label.**

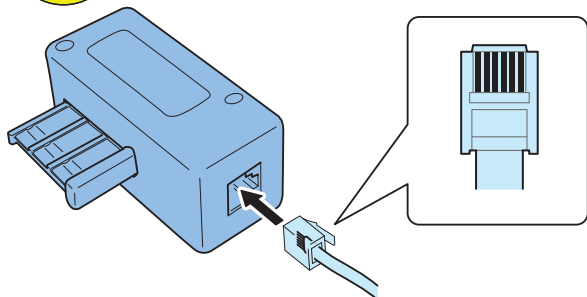
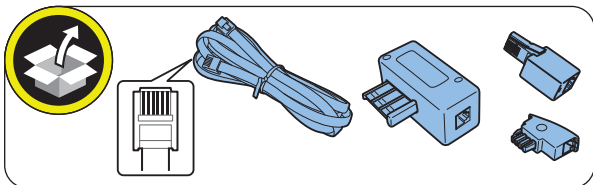




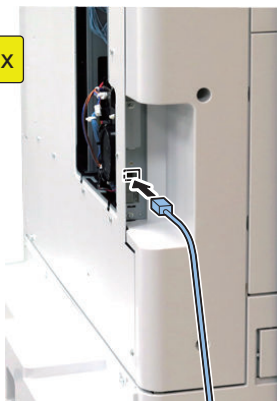
**NOTE:**

This step is only for Europe.  
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.

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

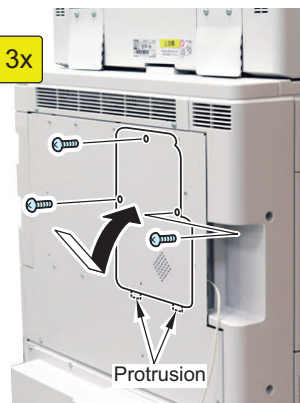


9. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.



10. Install the Rear Cover 2.

- 2 Protrusions
- 3 Screws



11. Connect the Power Plug to the outlet.



12. Turn ON the main power switch.

**CAUTION:**

If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

**NOTE:**

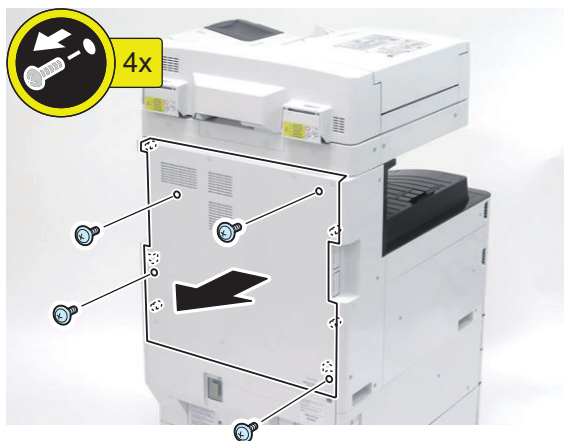
After completion of this procedure, proceed to "Checking the Operation" on page 68.

## In the Case of iR-ADV 4500 Series



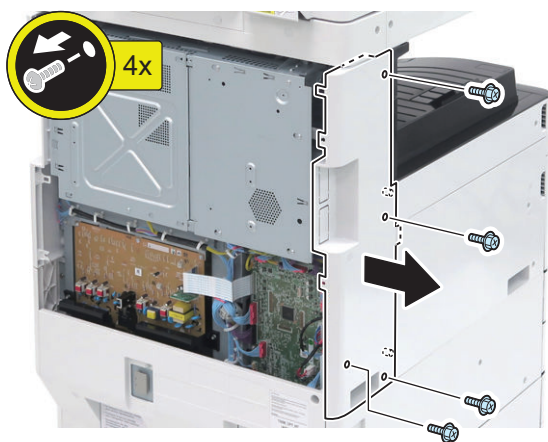
### 1. Remove the Rear Cover.

- 4 Screws
- 6 Protrusions



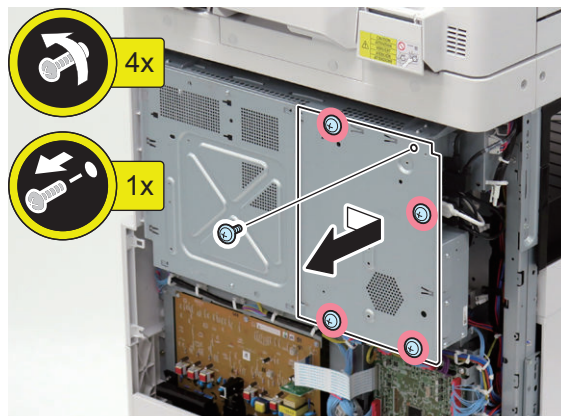
### 2. Remove the Left Rear Cover.

- 4 Screws
- 3 Protrusions



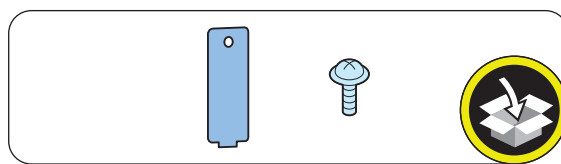
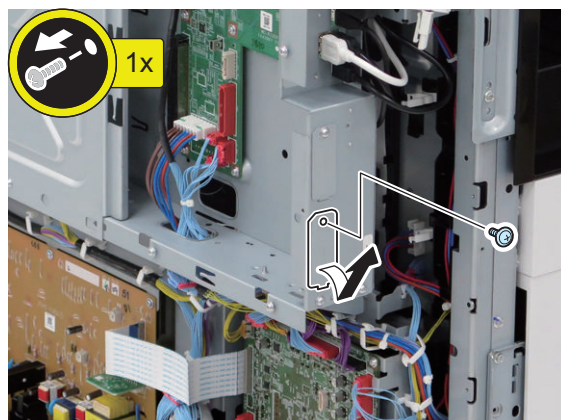
### 3. Remove the Controller Box Cover.

- 4 Screws (to loosen)
- 1 Screw (to remove)



### 4. Remove the Face Cover. (The removed parts will not be used.)

- 1 Screw (used in the next step only in EUR)
- 1 Protrusion

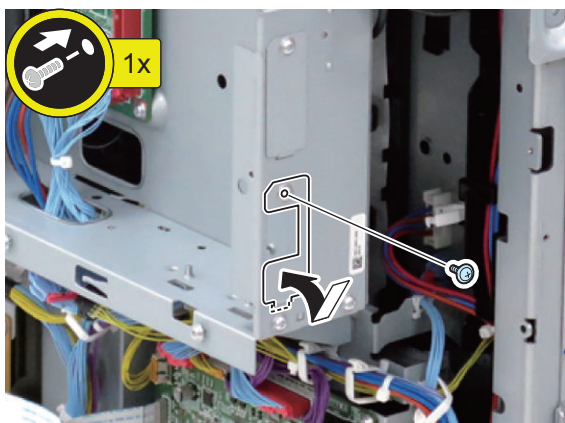




**NOTE:**  
This step is only for Europe.

**5. Install the Modular Cover.**

- 1 Protrusion
- 1 Screw (use the screw removed in the previous step)

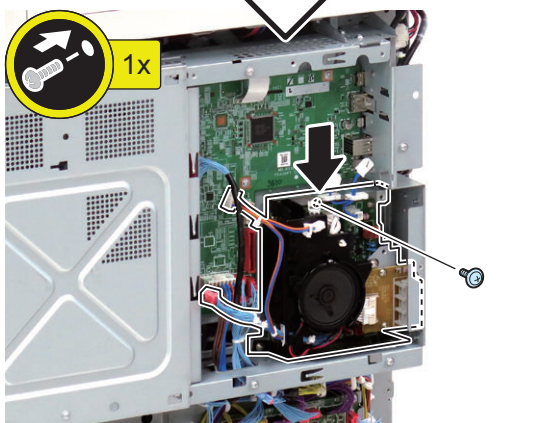
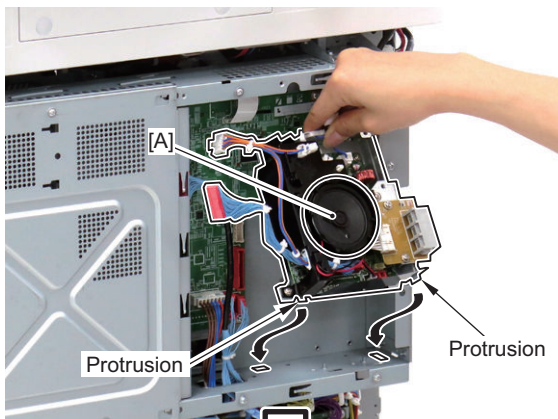
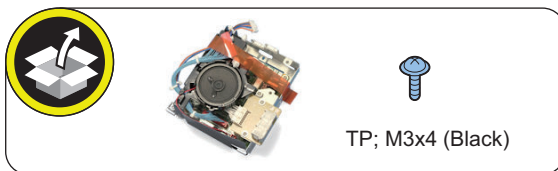


**6. Remove the tape and, install the Fax Unit.**

- 2 Protrusions
- 1 Screw (TP; M3x4: Black)

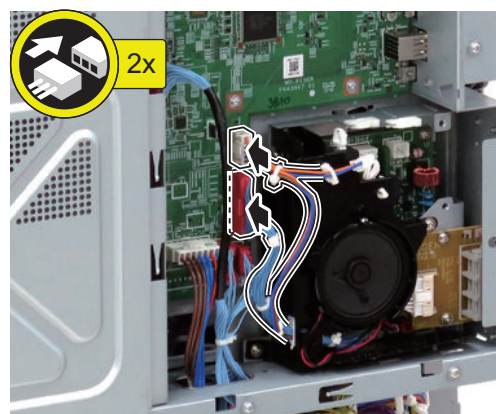
**CAUTION:**

- Be careful not to damage the [A] part of the speaker as the wiring may be broken.
- Be sure to tighten the screw while holding the FAX Unit.
- After tightening the screw of the FAX Unit, check for any backlash. If there is backlash, tighten the screw again with the protrusion precisely fitted.



**7. Connect the 2 cables of the FAX Unit.**

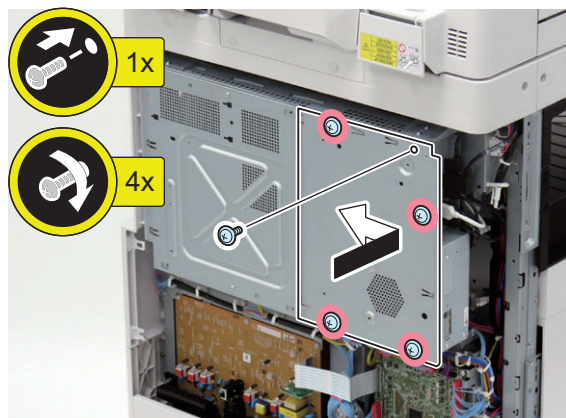
- 2 Connectors





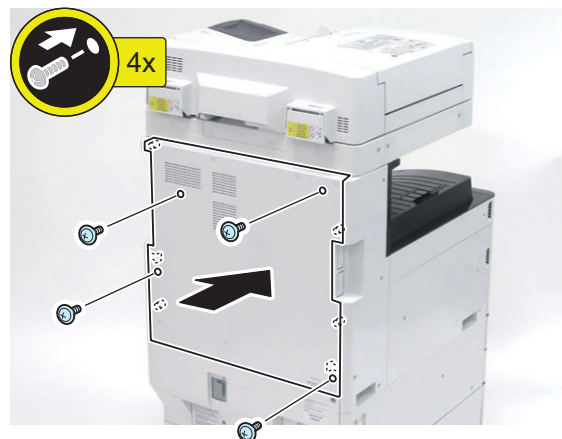
**8. Install the Controller Box Cover.**

- 1 Screw (to install)
- 4 Screws (to tighten)



**11. Install the Rear Cover.**

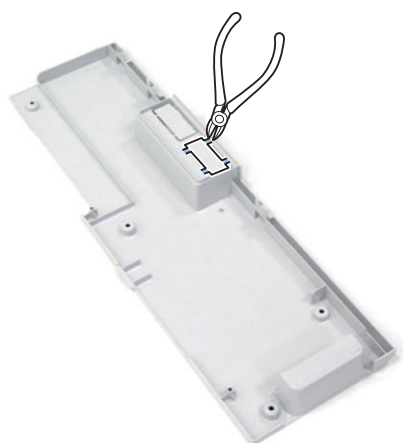
- 6 Protrusions
- 4 Screws



**9. Cut off the Face Plate with nippers.**

**NOTE:**

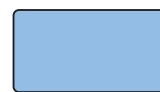
When cutting off the part, be sure not to make burrs.



**NOTE:**

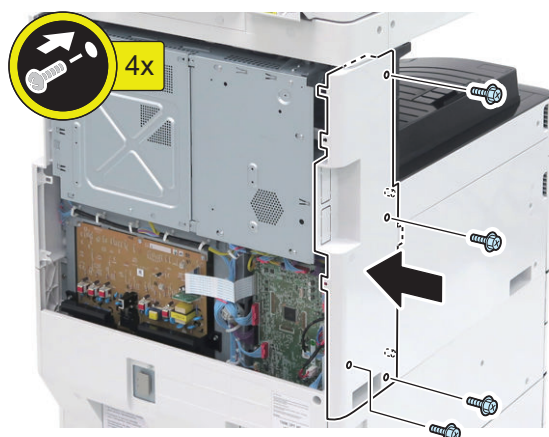
This step is only for USA and Taiwan.

**12. Affix the FAX Approval Label in the vacant space.**



**10. Install the Left Rear Cover.**

- 3 Protrusions
- 4 Screws



□

13. Affix the appropriate Modular Label to the place shown in the figure.

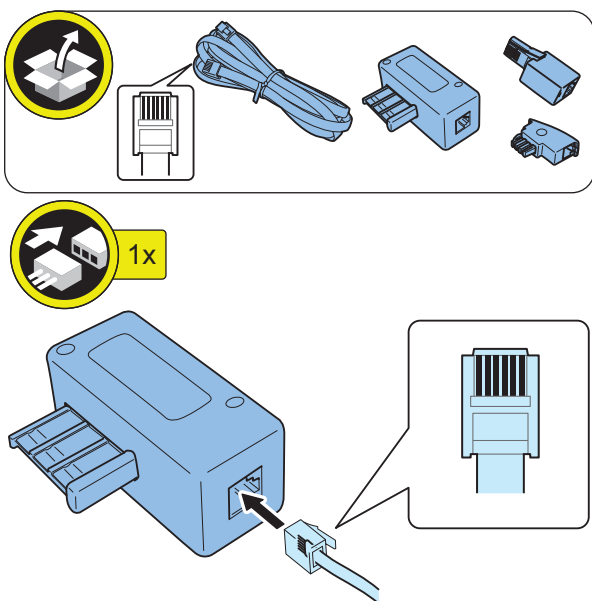


□

**NOTE:**  
This step is only for Europe.

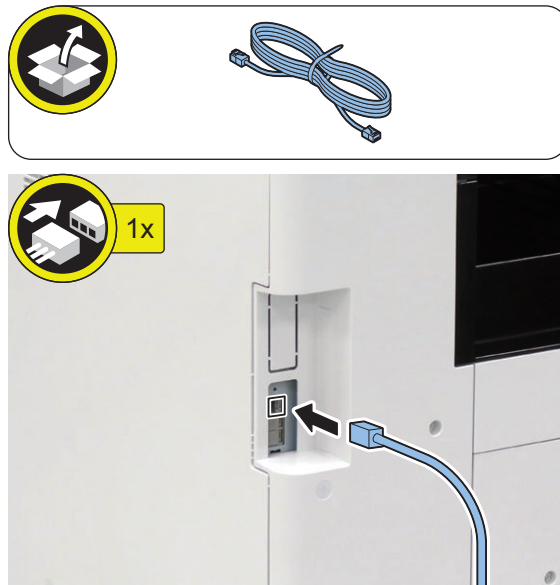
14. Connect the PTT Plug matched the field or area to the PTT Cable (6 contact type).

**CAUTION:**  
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.



□

15. Connect the end of the PTT Cable or Telephone Cord to the modular jack on the Host machine, and connect the other end to the modular jack on the wall.



□

16. Connect the Power Plug to the outlet.

□

17. Turn ON the main power switch.

**CAUTION:**  
If the machine does not recognize this equipment, unplug and then plug the power plug after turning OFF the main power switch, or turn OFF the main power switch and then turn it ON within 20 seconds. To avoid this symptom, unplug the power plug or turn the breaker OFF when installing.

**NOTE:**  
After completion of this procedure, proceed to "Checking the Operation" on page 68.



## Checking the Operation

### Type Setting



1. From the following service mode, check that the type setting of Fax board is [STANDARD] and press OK.  
FAX > TYPE > TYPE
2. Confirm that service mode 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 > Auto Shutdown 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.



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

### FAX Communication Test

Perform 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 properly.