

# **Super G3 Fax Board-AU1**

# **Super G3 2nd Line Fax Board-AU1**

# **SERVICE MANUAL**

The Canon logo is displayed in a bold, black, sans-serif font. The letter 'C' is significantly larger than the other letters, and the 'o' contains a white dot.

**October 14, 2016  
Rev. 1**

# 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 Serving

- 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.



# Product Overview

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## 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 dot/mm x 3.85 line/mm Fine: 8 dot/mm x 7.7 line/mm Super-Fine: 8 dot/mm x 15.4 line/mm Ultra-Fine: 16 dot/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
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)



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## Basic Construction

### Overview

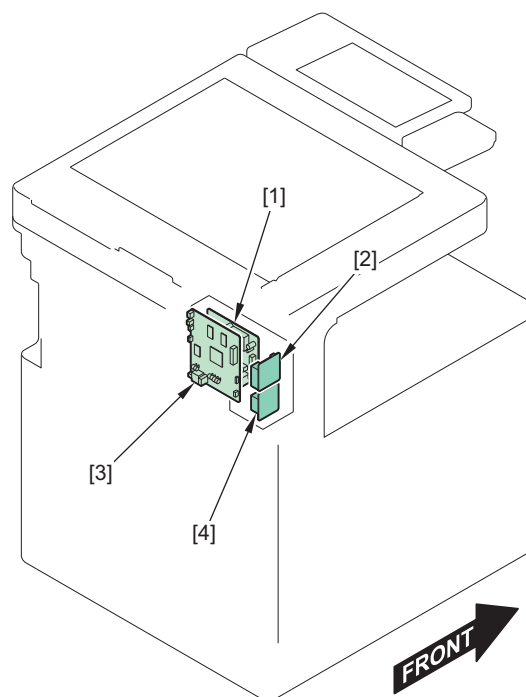
This product is a Fax Unit to connect a fax line to the host machine.

This product is equipped with image processing function to enable the digital multi function printer to be used as a multi function printer with fax, and communication function using a telephone line.

A modem supporting V.34 standard recommended by ITU-T enables this product to communicate at a maximum of 33.6 kbps.

A fax line can be added by adding the Super G3 2nd Line Fax Board-AU1 to the Fax Unit for 1-line (Super G3 Fax Board-AU1).

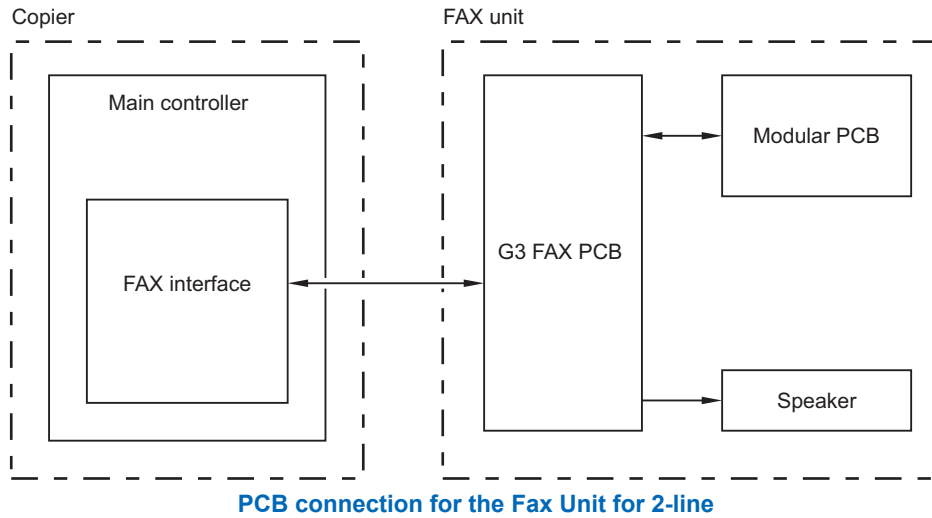
No.	Name
[1]	G3 Fax PCB
[2]	Modular PCB (1-line)
[3]	PCB for adding G3 2nd line
[4]	Modular PCB (2-line)



## Controls

### Fax Communication Control

In the case of the Fax Unit for 1-line, the Main Controller PCB in the host machine controls the G3 Fax PCB in the Fax Unit. In the case of the Fax Unit for 2-line, the Fax Unit itself performs fax communication control because fax control program is stored in the G3 Fax Control PCB.





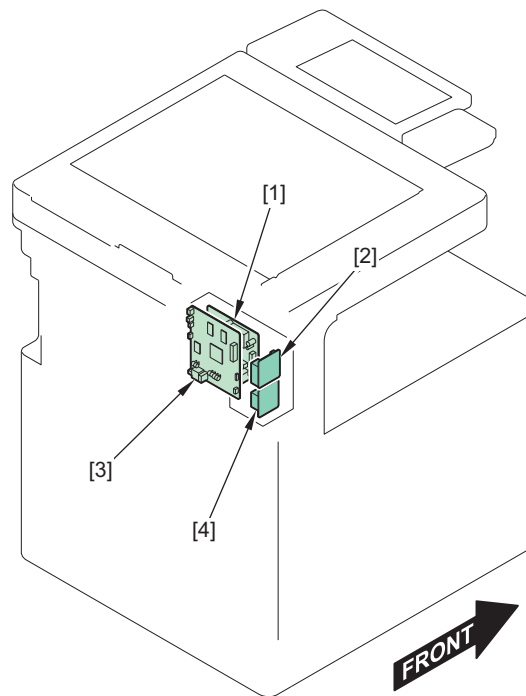
# Disassembly/ Assembly

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## Parts List

### Power Unit System

No.	Name
[1]	G3 Fax PCB
[2]	Modular PCB (1-line)
[3]	PCB for adding G3 2nd line
[4]	Modular PCB (2-line)



**NOTE:**

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



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## Overview

### How to View Error Codes

When the service mode #1 SSSW SW01 Bit0 is set to "1" after installing this 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 > Reception > Job Log > Details

The main error codes displayed by this board are described as a list in this manual.

For causes and remedies for other error codes, refer to the "G3/G4 Facsimile Error Code Service Handbook (revised edition 2)" (document number: HY8-22A6-020) provided as a separate volume.

The remedies with this board when a service error code occurs are shown below.

- Increase the transmission level  
Set -8 (dBm) for service mode #2 MENU parameter No.007.
- Decrease the transmission level  
Set -15 (dBm) for service mode #2 MENU parameter No.007.
- EPT (Echo Protect Tone)  
Change the setting of service mode #1 SSSW SW03 Bit1.  
Bit 1  
-> 1: Send EPT.  
-> 0: Not send EPT.
- Adjust the NL equalizer  
Set "1" for service mode #2 MENU parameter No.005.
- Echo prevention  
Change the following bit settings of service mode #1 SSSW SW03.
  - Bit 4  
-> 1: Ignore the first DIS signal sent from the other party's machine.  
-> 0: Not ignore the first DIS signal sent from the other party's machine.
  - Bit 5  
-> 1: Send a tonal signal (1850 or 1650 Hz) when the other party's machine sends the DIS signal.  
-> 0: Not send a tonal signal (1850 or 1650 Hz) when the other party's machine sends the DIS signal.
  - Bit 6  
-> 1: Send a 1850 Hz tonal signal when Bit 5 is 1.  
-> 0: Send a 1650 Hz tonal signal when Bit 5 is 1.
  - Bit 7  
-> 1: Send a tonal signal before sending CED signal.  
-> 0: Not send a tonal signal before sending CED signal.
- Decrease the transmission start speed  
Decrease the transmission start speed in user mode > System Settings > Communication Management Settings > TX Start Speed.
- Relax the TCF judgment criterion  
With this board, there is no way to perform this remedy.
- Relax the RTN transmission conditions  
Change the setting of service mode #3 No.004 from that of No.002.  
No. 002 Error rate of all lines: Make it close to 99%.  
No. 003 Number of lines in a burst state: Make it close to 99 lines.  
No. 004 Number of errors that fails to meet the number of lines in a burst state: Make it close to 99 errors.
- Lengthen the silence time after receiving CFR.  
Set "1" in the service mode #1 SSSW SW04 Bit4.  
Bit 4  
-> 1: Time for ignoring the low-speed signal after sending CFR: 1500 ms  
-> 0: Time for ignoring the low-speed signal after sending CFR: 700 ms



## User error codes

Regarding the user error codes, refer to e-Manual > Top > Troubleshooting > List of End Codes.

## Service error codes

No.	Send/ Receive	Description
##100	[Send]	The retry count of the procedure signal has exceeded the limit at the time of transmission.
##101	[Send/ Receive]	The modem speed differs from that of the other party's machine.
##102	[Send]	Fallback was not available at the time of transmission.
##103	[Receive]	EOL could not be detected for 5 seconds at the time of reception. (15sec in the case of CBT)
##104	[Send]	RTN or PIN was received at the time of transmission.
##106	[Receive]	While waiting for a procedure signal at the time of reception, the signal could not be received for 6 seconds.
##107	[Receive]	Fallback was not available on the sending machine side at the time of reception.
##109	[Send]	After DCS was sent at the time of transmission, a signal other than DIS, DTC, FTT, CFR, and CRP was received, and the retry count of the procedure signal exceeded the limit.
##111	[Send/ Receive]	Memory error
##114	[Receive]	RTN was sent at the time of reception.
##116	[Send/ Receive]	Disconnection of the loop current was detected while communication was in progress.
##200	[Receive]	Carrier could not be detected for 5 seconds while receiving an image at the time of reception.
##201	[Send/ Receive]	DCN was received in a procedure other than a normal binary procedure.
##204	[Send]	DTC without transmission data was received.
##220	[Send/ Receive]	System error (main program runaway)
##223	[Send/ Receive]	Line was disconnected while communication was in progress.
##224	[Send/ Receive]	Procedure signal error occurred in G3 communication.
##226	[Send/ Receive]	Stack pointer deviated from RAM area.
##227	[Receive]	Tried to record a file with no image.
##229	[Receive]	Recorder locked for one minute.
##230	[Send/ Receive]	Malfunction of the unit for display control
##231	[Send/ Receive]	Malfunction of the unit for button control
##232	[Send]	Encode error
##237	[Receive]	Decode error
##238	[Receive]	Failure of the print control unit.
##261	[Send/ Receive]	A system error occurred.
##280	[Send]	The retry count of the procedure signal has exceeded the limit at the time of transmission.
##281	[Send]	The retry count of the procedure signal has exceeded the limit at the time of transmission.
##282	[Send]	The retry count of the procedure signal has exceeded the limit at the time of transmission.
##283	[Send]	The retry count of the procedure signal has exceeded the limit at the time of transmission.
##284	[Send]	DCN was received after TCF was sent at the time of transmission.
##285	[Send]	DCN was received after EOP was sent at the time of transmission.
##286	[Send]	DCN was received after EOM was sent at the time of transmission.
##287	[Send]	DCN was received after MPS was sent at the time of transmission.
##288	[Send]	After EOP was sent, a signal other than PIN, PIP, MCF, RTP, and RTN was received.
##289	[Send]	After EOM was sent, a signal other than PIN, PIP, MCF, RTP, and RTN was received.
##290	[Send]	After MPS was sent, a signal other than PIN, PIP, MCF, RTP, and RTN was received.
##670	[Send]	At V.8 late start, the V.8 competency of DIS on the receiving machine side was detected, and a CI signal was sent. However, the procedure failed to be performed, and the circuit was released due to T1 time-out.
##671	[Receive]	After the CM signal of the calling party was detected at V.8 call reception, the procedure failed to move to Phase 2, and the circuit was released due to T1 time-out.

No.	Send/Receive	Description
##672	[Send]	At V.34 transmission, the procedure failed to move from Phase 2 to Phase 3 and later, and the circuit was released due to T1 time-out.
##673	[Receive]	At V.34 reception, the procedure failed to move from Phase 2 to Phase 3 and later, and the circuit was released due to T1 time-out.
##674	[Send]	At V.34 transmission, the procedure failed to move from Phase 3 and 4 to the control channel and later, and the circuit was released due to T1 time-out.
##675	[Receive]	At V.34 reception, the procedure failed to move from Phase 3 and 4 to the control channel and later, and the circuit was released due to T1 time-out.
##750	[Send]	After PPS-NULL was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##752	[Send]	After PPS-NULL was sent at ECM transmission, DCN was received.
##753	[Send]	After PPS-NULL was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##754	[Send]	After PPS-NULL was sent at ECM transmission, the retry count of the procedure signal exceeded the limit.
##755	[Send]	After PPS-MPS was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##757	[Send]	After PPS-MPS was sent at ECM transmission, DCN was received.
##758	[Send]	After PPS-MPS was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##759	[Send]	After PPS-MPS was sent at ECM transmission, the retry count of the procedure signal exceeded the limit.
##760	[Send]	After PPS-EOM was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##762	[Send]	After PPS-EOM was sent at ECM transmission, DCN was received.
##763	[Send]	After PPS-MPS was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##764	[Send]	After PPS-EOM was sent at ECM transmission, the retry count of the procedure signal exceeded the limit.
##765	[Send]	After PPS-EOP was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##767	[Send]	After PPS-EOP was sent at ECM transmission, DCN was received.
##768	[Send]	After PPS-EOP was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##769	[Send]	After PPS-EOP was sent at ECM transmission, the retry count of the procedure signal exceeded the limit.
##770	[Send]	After EOR-NULL was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##772	[Send]	After EOR-NULL was sent at ECM transmission, DCN was received.
##773	[Send]	After EOR-NULL was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##774	[Send]	After EOR-NULL was sent at ECM transmission, ERR was received.
##775	[Send]	After EOR-MPS was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##777	[Send]	After EOR-MPS was sent at ECM transmission, DCN was received.
##778	[Send]	After EOR-MPS was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##779	[Send]	After EOR-MPS was sent at ECM transmission, ERR was received.
##780	[Send]	After EOR-EOM was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##782	[Send]	After EOR-EOM was sent at ECM transmission, DCN was received.
##783	[Send]	After EOR-EOM was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##784	[Send]	After EOR-EOM was sent at ECM transmission, ERR was received.
##785	[Send]	After EOR-EOP was sent at ECM transmission, no meaningful signal was received, and the retry count of the procedure signal exceeded the limit.
##787	[Send]	After EOR-EOP was sent at ECM transmission, DCN was received.
##788	[Send]	After EOR-EOP was sent at ECM transmission, the retry count of the procedure signal exceeded the limit, or T5 time-over (60 sec) occurred.
##789	[Send]	After EOR-EOP was sent at ECM transmission, ERR was received.
##790	[Receive]	After EOR-Q was received at ECM reception, ERR was sent.

No.	Send/ Receive	Description
##791	[Send/ Receive]	A signal other than a meaningful signal was received during the ECM mode procedure.
##792	[Receive]	At ECM reception, PPS-NULL could not be detected between partial pages.
##793	[Receive]	At ECM reception, a valid frame could not be received when a high-speed signal was received, and a timeout occurred.
##794	[Send]	At ECM reception, PPR with all 0 was received.
##795	[Send/ Receive]	A failure occurred in the decode processing during communication.
##796	[Send/ Receive]	A failure occurred in the decode processing after ECM reception.

Error codes for IP FAX are expressed as #3\*\*\*. In this case, \*\*\* is the last 3 digits of the No.

# 5

## Service Mode

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## Outline

### Configuration of the Service Mode

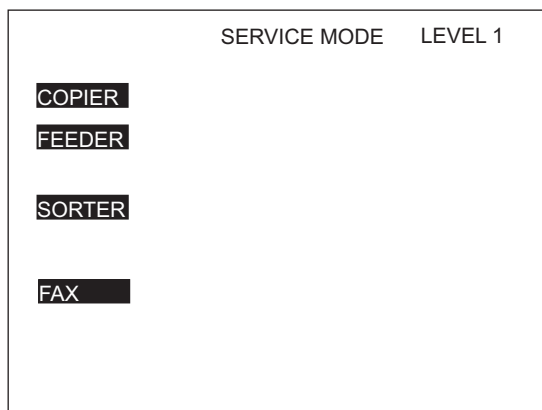
Service mode is divided into the following 10 items (#1 to #10).

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.

### 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.



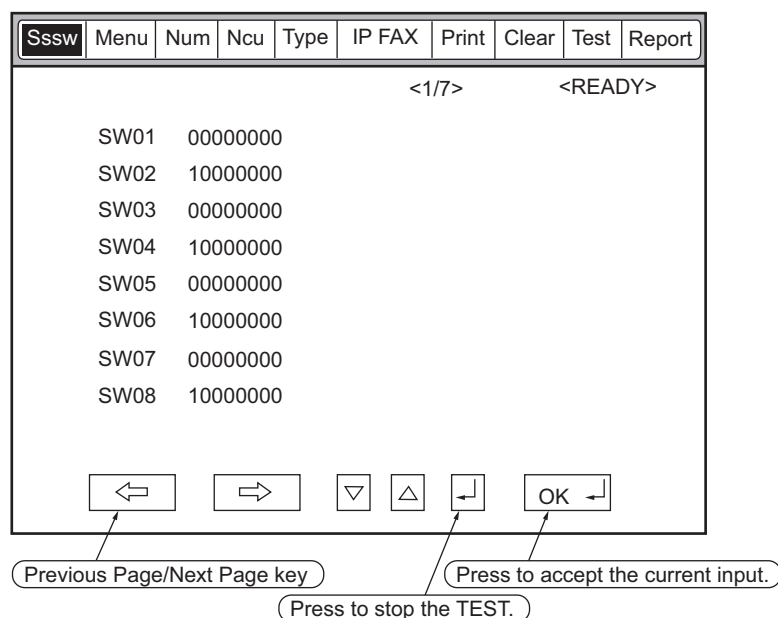
COPIER: Service mode of the connected equipment

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.



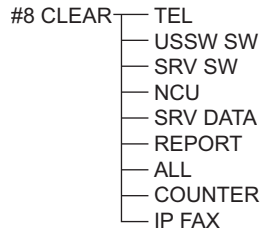
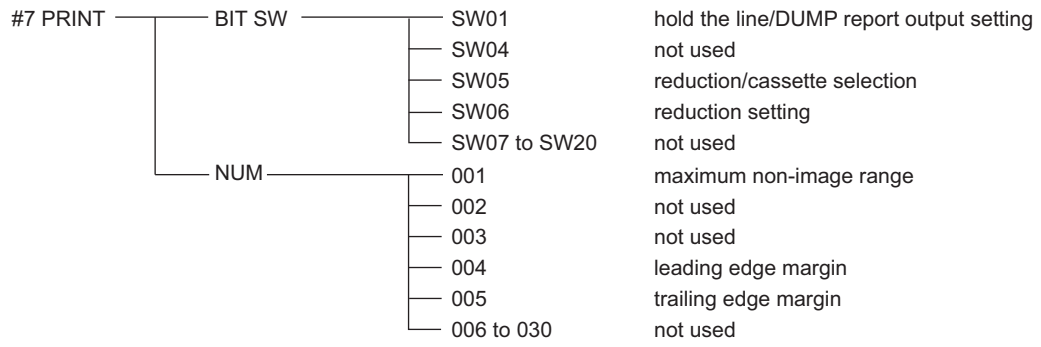
## Menu List

#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	0
SW02	1	0	0	0	0	0	0	0	0
SW03	0	0	0	0	0	0	0	0	0
SW04	1	0	0	0	0	0	0	0	0
SW05	0	0	0	0	0	0	0	0	0
SW06	1	0	0	0	0	0	0	0	0
SW07	0	0	0	0	0	0	0	0	0
SW08	1	0	0	0	0	0	0	0	0

Navigation icons: Left arrow, Right arrow, Down arrow, Up arrow, Enter, OK (Enter).

### ■ SSSW-SW01

#### ● List of functions

Bit	Function	1	0
0	Error code for service technician	Output	Not output
1	Error dump list	Output	Not output
2	Not used	-	-
3	Not used	-	-
4	Display service error codes in the ##300 series	Displayed	Not displayed
5	Increase the capacity of SUB-LOG for USBFAX2	Increased	Not increased
6	Not used	-	-
7	Batch cancellation of prohibition of user setting	Canceled	Not canceled

#### Details of Bit 0

Select whether to output service error codes.

Selecting "Output" displays service error codes on the display and the reports.

#### Details of Bit 1

Select whether to output error dump list.

Selecting "Output" outputs the error transmission report and the reception result report at the time of occurrence of an error with the error dump list attached.

### Details of Bit 4

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

### Details of Bit 5

To select whether to increase the storage area of log when USBFAX2 is used (firmware automatic update function).

### Details of Bit 7

Select whether to collectively cancel the prohibition of user settings.

## ■ SSSW-SW03

### ● Functional Construction

Bit	Function	1	0
0	not used	-	-
1	echo protect tone at high-speed transmission	transmit	do not transmit
2	not used	-	-
3	not used	-	-
4	transmission mode: international transmission (1)	use	do not use
5	transmission mode: international transmission (2) or (3)	use	do not use
6	transmission mode	international transmission (3)	international transmission (2)
7	tonal signal before CED signal transmission	transmit	do not transmit

### Detailed Discussions of Bit 1

Use it to enable/disable transmission of 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 transmission because of the condition of the line, select 'transmit' so that a non-modulation carrier will be transmitted as a pre-image transmission sync signal for about 200 msec.

#### NOTE:

Error Code:

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

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

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

Use it to select an appropriate transmission mode: international transmission (1), international transmission (2), or international transmission (3).

Use the service soft switch or the dial registration function to select the appropriate transmission mode if errors occur frequently at time of transmission to overseas.

#### NOTE:

Error Code:

Any of the following error codes may be indicated because of an echo at time of transmission

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

Using the Dial Recognition Function (user level):

Select 'international transmission (1)' when making an entry in the Address Book. If errors still occur, select 'international transmission (2)' and then 'international transmission (3)' in sequence until errors stop. The transmission mode selected using the One-Touch Dial function or the Speed Dial function will be give 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): select it to ignore the first DIS signal from the other party.

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

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

### Detailed Discussions of Bit 7

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

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

#### NOTE:

Error Code:

Any of the following error code may be indicated because of an echo at time of reception

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

## ■ SSSW-SW04

### ● Functional Configuration

Bit	Function	1	0
0	LC monitoring	Monitored	Not monitored
1	Check the CI signal frequency	Checked	Not checked
2	Final flag sequences of the procedure signal	2	1
3	Reception mode after transmission of CFR signal	High speed	High speed/low speed
4	Time to ignore low-speed signals after transmission of CFR signal	1500 msec	700 msec
5	Check the CS signal frequency (when PBX is set)	Checked	Not checked
6	CNG signal at the time of manual transmission	Not sent	Sent
7	CED signal at the time of manual reception	Not sent	Sent

#### Details of Bit 1

Select whether to check the CI signal frequency.

#### Details 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 transmission

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

### Details of Bit 3

Select a reception mode after transmission of CFR signal.

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

**NOTE:**

Error codes caused by line status at the time of reception

##107, ##114, ##201

If an error still occurs even after the change of Bit 4, change the bit described here.

Selecting "High speed" receives only high-speed (image) signal after transmission of CFR signal.

### Details of Bit 4

Select the time to ignore low-speed signals after transmission of CFR signal.

Select "1500 msec" when the line status is poor and reception of image signal is difficult.

### Details of Bit 5

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

### Details of Bit 6

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

Select "Send" in the case of frequent errors in which the fax machine in Fax/Tel switching mode is not switched to fax when executing manual transmission to the fax.

### Details 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 transmission although manual reception is executed.

## ■ SSSW-SW05

### ● Functional Configuration

Bit	Function	1	0
0	Not used	-	-
1	To execute mm/inch conversion (text mode).	Yes	No
2	Not used	-	-
3	To transmit bit 33 or later of DIS signal.	Prohibited	Not prohibited
4	Paper length to be declared by DIS signal	A4/B4 size	Any size
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

### Details of Bit 1

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

### Details of Bit 3

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

**CAUTION:**

Selecting "Prohibited" causes the super-fine reception from other brand printers or memory box function to be disabled.

### Details 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 Configuration

Bit	Function	1	0
0	Communication result at normal completion	Displayed	Not displayed
1	Communication result at completion with an error	Displayed	Not displayed
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Details of Bit 0 and 1

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

## ■ SSSW-SW12

### ● Functional Construction

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

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

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

#### Time-Out Length for Transmission/Reception

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

**Time-Out Length for Transmission (in text mode)**

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

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

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

**Time-Out Length for Reception**

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

## ■ SSSW-SW13

### ● Functional Construction

Bit	Function	1	0
0	not used	-	-
1	not used	-	-
2	not used	-	-
3	Display of the screen of Modem Dial-in/My Number Settings	Yes	No
4	Display of Set Number Display screen	Yes	No
5	not used	-	-
6	not used	-	-
7	not used	-	-

**Detailed Discussions of Bit 3**

To set whether to enable the display of Modem Dial-in Settings and My Number Settings.

**NOTE:**

After setting, turn OFF and then ON the main power switch.

**Detailed Discussions of Bit 4**

To set whether to enable the display of Set Number Display screen

**NOTE:**

After setting, turn OFF and then ON the main power switch.

## ■ SSSW-SW14

### ● Functional Configuration

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

#### Details of Bit 4

At the time of G3 communication, select whether to declare inch-configuration resolution to the other party's machine. Selecting "Yes" causes either of DIS, DCS and DTC signals to declare that the machine executes scanning and recording in inch-configuration resolution.

## ■ SSSW-SW17

### ● Functional Configuration

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	To declare inch-configuration resolution.	Yes	No
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Details of Bit 1

Select the transmission level of the modem.

#### Details of Bit 4

At the time of G3 communication, select whether to declare inch-configuration resolution to the other party's machine. Selecting "Yes" causes either of DIS, DCS and DTC signals to declare that the machine executes scanning and recording in inch-configuration resolution.

## ■ 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	not used	-	-
4	not used	-	-
5	not used	-	-
6	not used	-	-



Bit	Function	1	0
7	not used	-	-

### Detailed Discussions of Bit 2

To set whether to prohibit the control of IP-supported communication.

## ■ SSSW-SW22

### ● Functional Configuration

Bit	Function	1	0
0	Backup when an archive transmission error occurs	use	do not use
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	Archive transmission function	Enabled	Disabled
7	Host machine speed priority	Prioritized	Not prioritized

### Details of Bit 1

Select whether to back up data when a communication error occurs during archive transmission.

### Details of Bit 6

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

### Details of Bit 7

Select whether to prioritize the host machine speed.

## ■ SSSW-SW25

### ● Functional Configuration

Bit	Function	1	0
0	Transmission phone number displayed in the report	Number of the other party's machine	Caller number
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Firmware automatic update (USB Fax)	Prohibited	Not prohibited
6	Not used	-	-
7	Not used	-	-

### Details of Bit 0

Select a transmission phone number displayed on the report after transmission is completed.

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

Number of the other party's machine: To display the phone number (CSI signal data) sent from the other party's machine on the report

### Details of Bit 5

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

## ■ SSSW-SW26

### ● Functional Configuration

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Check the sequential broadcast.	Not checked	Checked
3	Not used	-	-
4	Not used	-	-
5	Redial function when transmission error occurs	Used	Not used
6	Not used	-	-
7	Error report when transmission is canceled	Not output	Output

#### Details of Bit 2

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

#### Details of Bit 5

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

#### Details of Bit 7

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

## ■ 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 reception side	Prohibited	Not prohibited
5	Not used	-	-
6	Not used	-	-
7	Not used	-	-

#### Details 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.

#### Details 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.

#### Details 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.

**Details of Bit 3**

When ANSam signal upon receiving a call cannot be recognized by the caller side, select whether to declare V.8 procedure by DIS signal transmitted continuously.

"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.

**Details of Bit 4**

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

"Prohibited": There will be no fallback from the reception side.

## ■ SSSW-SW30

### ● Functional Configuration

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	Controlled	Not controlled
7	Not used	-	-

**Details of Bit 5**

Switch the detection method when executing dial tone detection at the time of making a call.

0: New detection method (default)

1: Not used

**Details of Bit 6**

Select whether to execute flow control between pages.



**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.



No.	Function	Setting range	Default value
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%)

### 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****026: Silent detection level 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%.



## 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)

#### Functional Configuration

Bit	Function	1	0
0	Not used	-	-
1	Not used	-	-
2	Not used	-	-
3	Not used	-	-
4	Not used	-	-
5	Not used	-	-
6	To hold the line (when an error code occurs)	Held	Not held
7	Output a print log at the time of the DUMP report output	Output	Not output

#### Details of Bit 6

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

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.

#### Details of Bit7

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

#### Functional Configuration

Bit	Function	1	0
0	Letter priority	Set	Not set
1	Legal priority	Set	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	Not set

#### Details 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.

## Details of Bit 5 and 6

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

## Details of Bit 7

Set whether to set vertical scanning prioritized recording.

- "Set":  
In the event that an A4 long length image\* is received while B4 recording paper and A4 recording paper are loaded, the image is printed on B4 recording paper.
- "Not set":  
In the event that a B4 image is received while B5 recording paper with landscape orientation and A4 recording paper are loaded, the image is divided and printed on B5 recording paper with landscape orientation.

\*: An image which is smaller than B4 in length and which cannot be printed at reduced size 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 A4 size document into the B5 size.

This function is invalid when outputting the report.

## ● Setting of Numeric Parameter (NUMERIC Param.)

Ssw	Menu	Num	Ncu	Type	IP FAX	Print	Clear	Test	Report
<NUM>									
		<1/4>							
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}					

### ■ 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
IP FAX	Contents of IP Fax

\*1: With models that can register information other than fax in destination, the telephone number data is not cleared even when "TEL" or "ALL" is executed.

To clear the data, execute the following service mode of the host machine: COPIER> Function> CLEAR> ADRS-BK.

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

## Test Mode (TEST)

### Outline

#### ■ 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 ↵"/>																

1. 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

1. Select 'SPEED', and then select the speed you want to test using the Up/Down key.
2. 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.



```

2003 09/02 TUE 12:00 FAX
#1 LATEST #000
START TIME 09/02 10:00
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV VS 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
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)
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)

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 VS 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
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)
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)

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

#3 OLDEST #000
START TIME 09/02 09:00
OTHER PARTY 12345678
MAKER CODE 10001000
MACHINE CODE 0100001 00000000
RCV VS 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 VS 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 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(Super G3 FAX Board-AU1)







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# How to Check the Installation Procedure

## Symbols

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

Screw














Packaged Item    Unused Parts    Install    Remove    Tighten    Loosen

Harness  
(Common for Guides  
and Clamps)

Connector

Power Cord

Install    Remove    Connect    Disconnect    Connect    Disconnect

Power









ON    OFF    Check the sound    Check visually    Check    Push    Cleaning

## Pre-checks

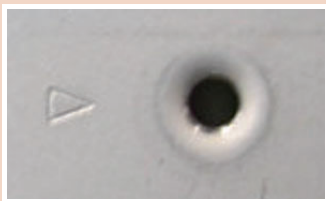
### Points to Note at Installation

- 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.

**CAUTION:**

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

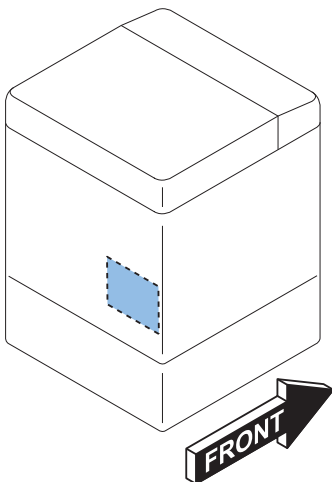


### Check Item When Turning OFF the Main Power

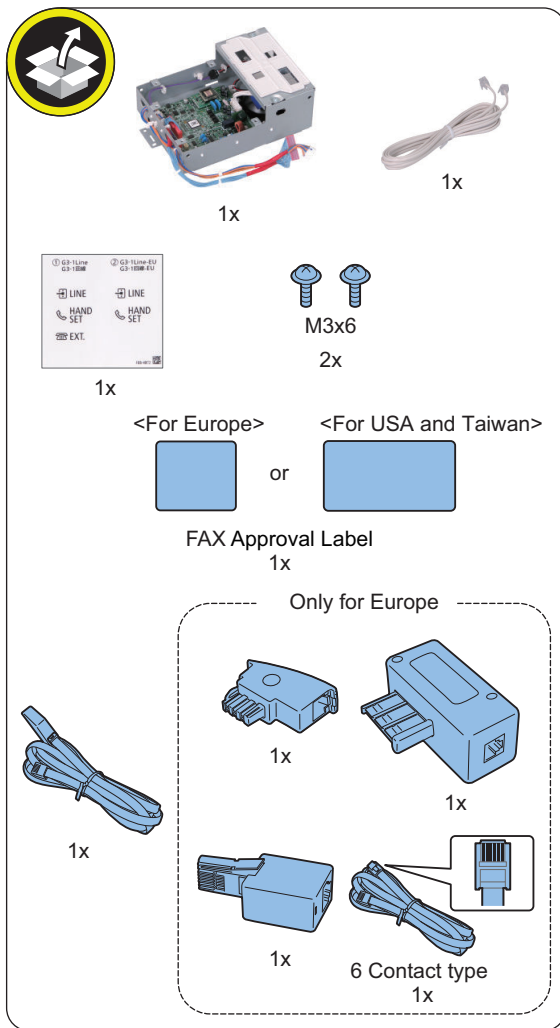
Check that the main power is OFF.

- Turn OFF the main power switch.
- Check that the display in the Control Panel and the lamp of the main power are turned off, and then disconnect the power plug.

### Installation Outline Drawing



### Checking the Contents



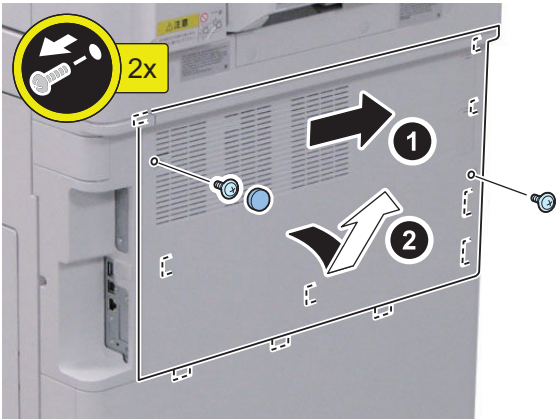
<Others>  
Including guides



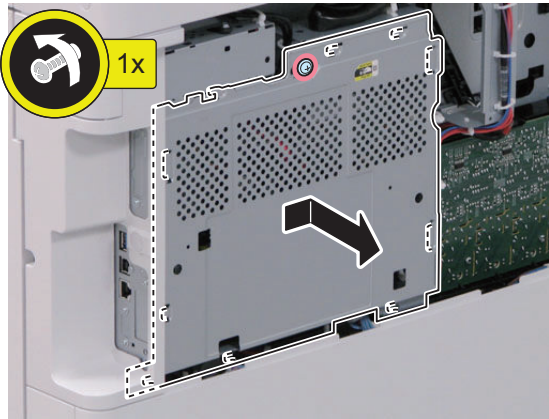
# Installation Procedure

## Remove the Covers

1

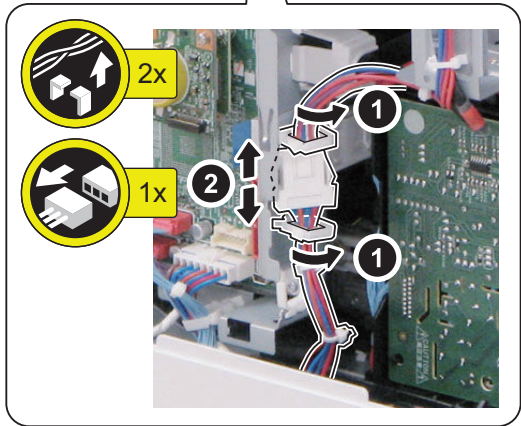
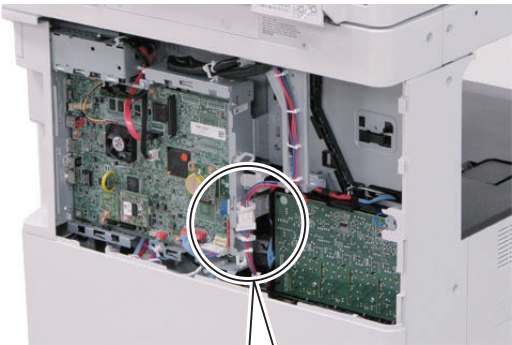


2

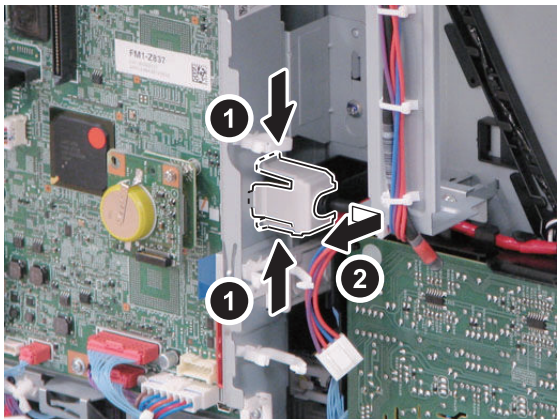


## Removing the Reader Connecting Plate

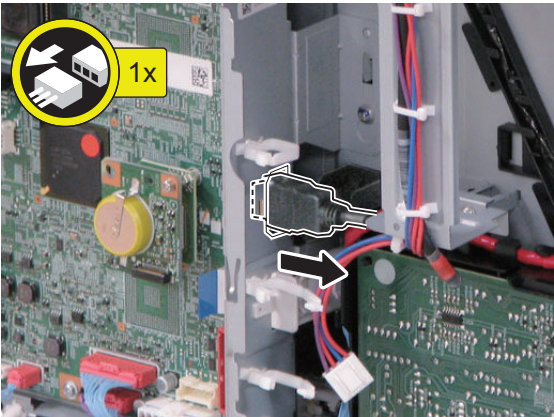
1



2



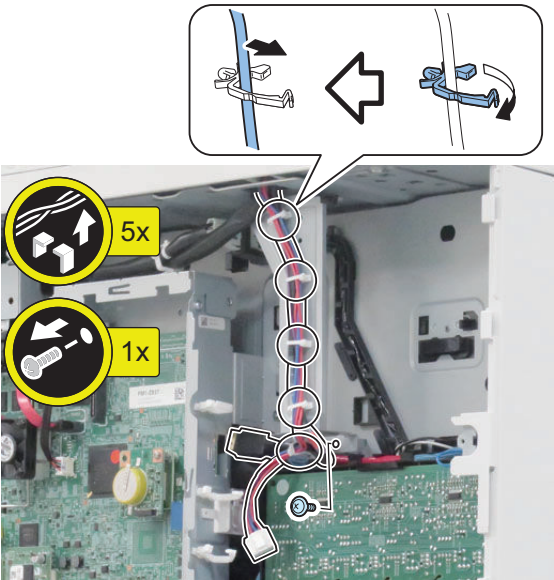
□ 3



### ● Installing the Fax Unit

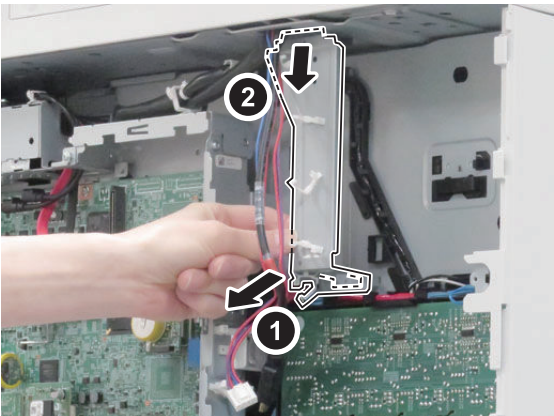
**NOTE:**  
 When installing the Super G3 2nd Line Fax Board at the same time, do not perform the following procedure, but start from "Installation Procedure > Installing the Fax Unit" of Super G3 2nd Line Fax Board Installation Procedure.

□ 4



**NOTE:**  
 The removed 1 screw will be used in step 3 of "Installing the Fax Unit".

□ 5





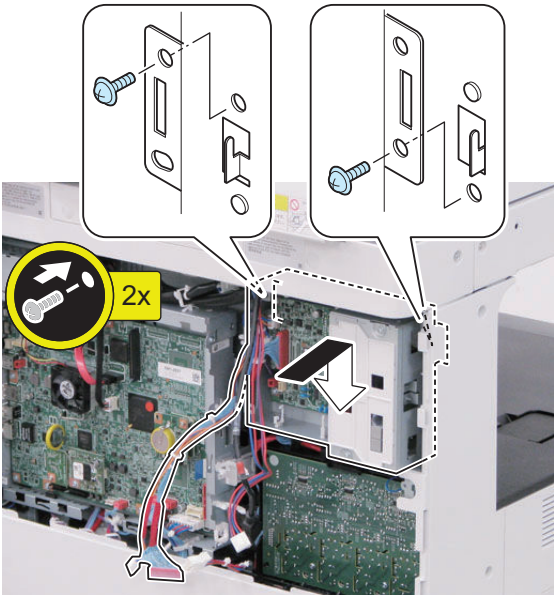
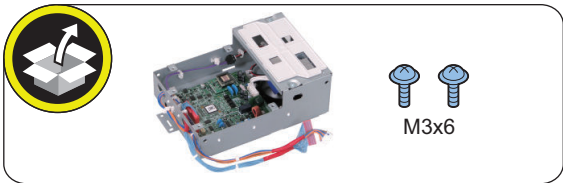
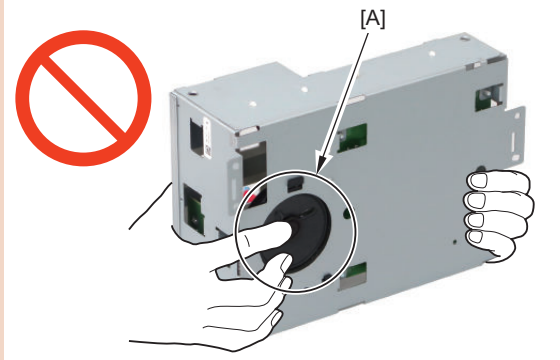
1

**NOTE:**

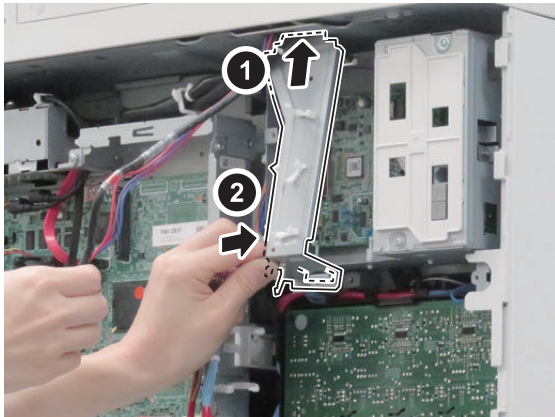
Remove the packing tape and other materials and Install the Fax Unit.

**CAUTION:**

- When installing the FAX Unit, be careful not to trap the 2 Cables of the FAX Unit.
- Do not directly touch the speaker [A] of the FAX Unit.
- Be sure not to damage the speaker [A].



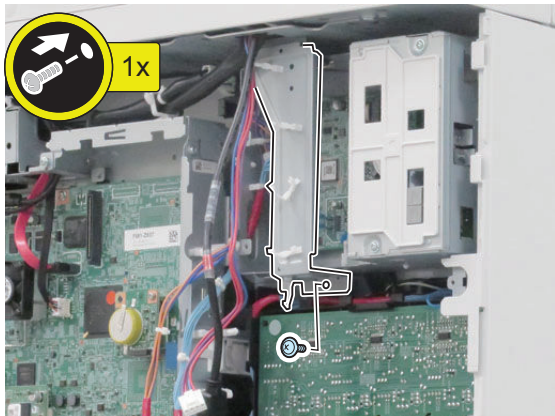
2



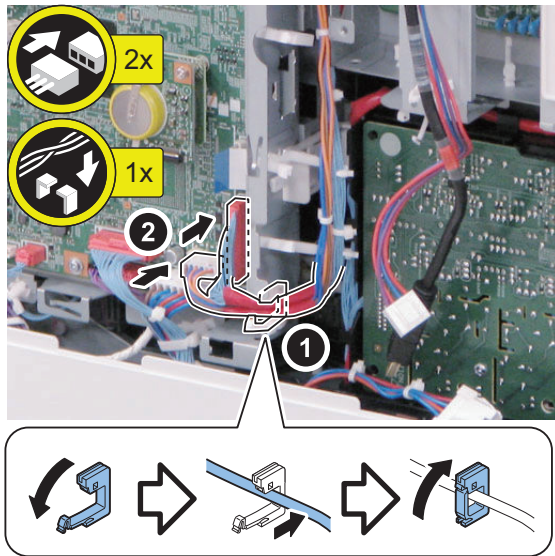
3

**NOTE:**

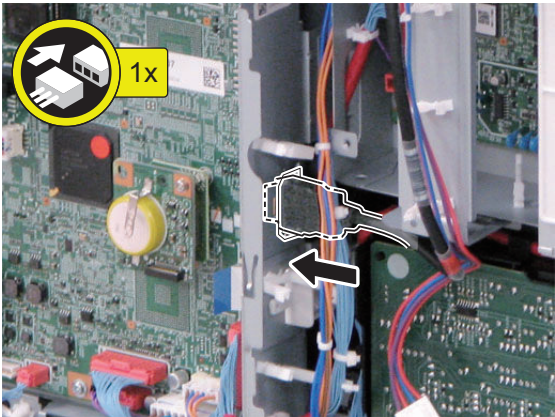
Use the screws removed in step 4 of "Removing the Reader Connecting Plate".



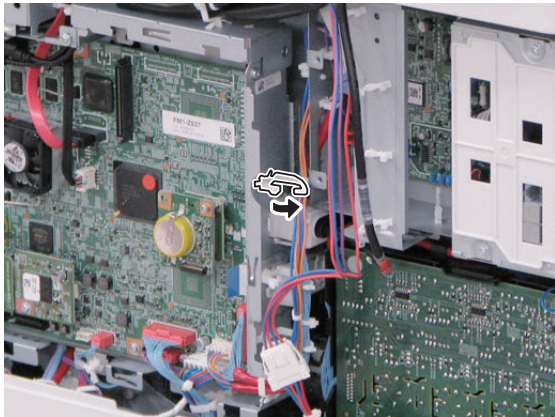
4



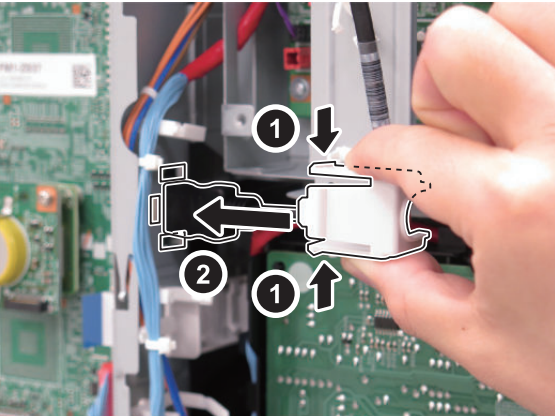
□ 5



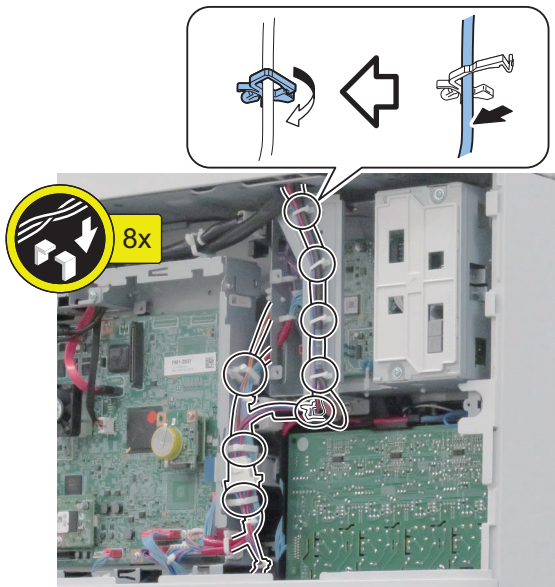
□ 8



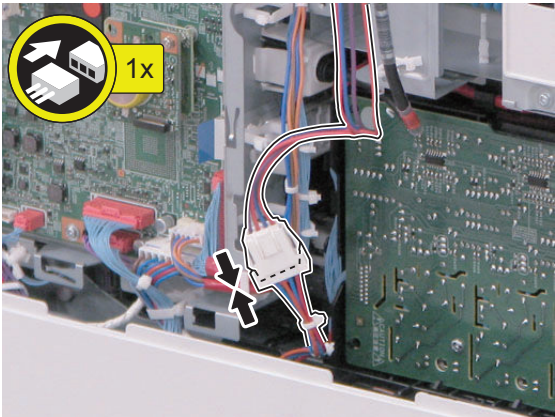
□ 6



□ 9

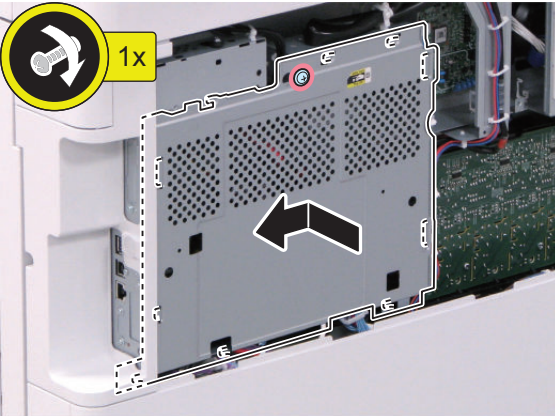


□ 7



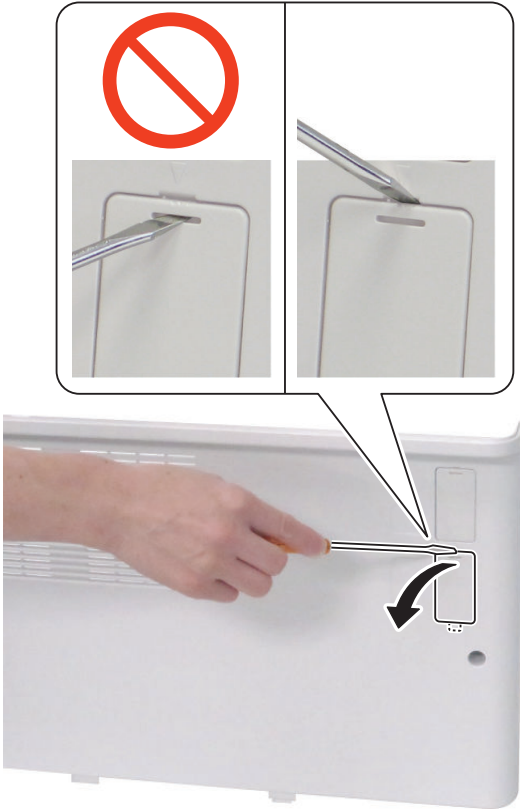
● Installing the Covers

□ 1



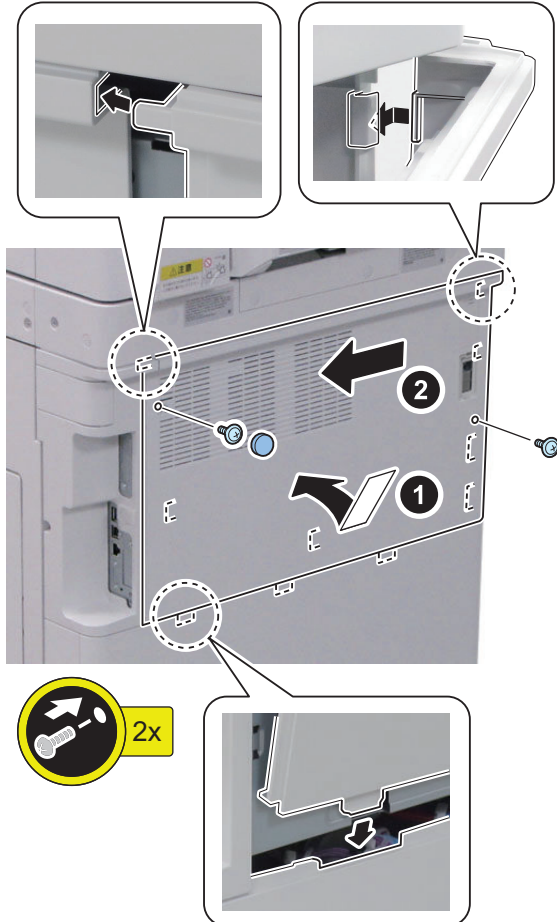


□ 2

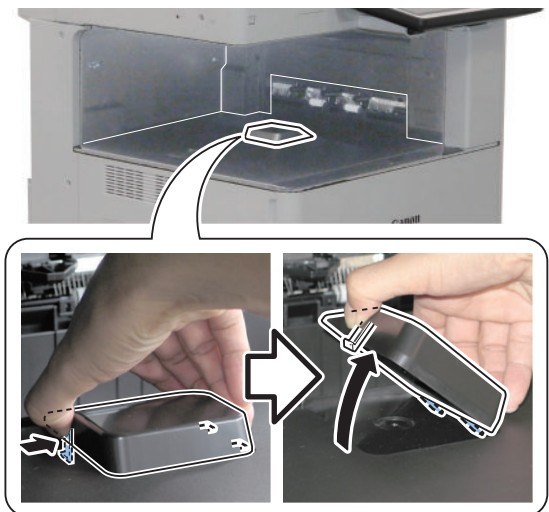


**NOTE:**  
Store the removed Face Cover in the Tray Guide in step 5.

□ 3



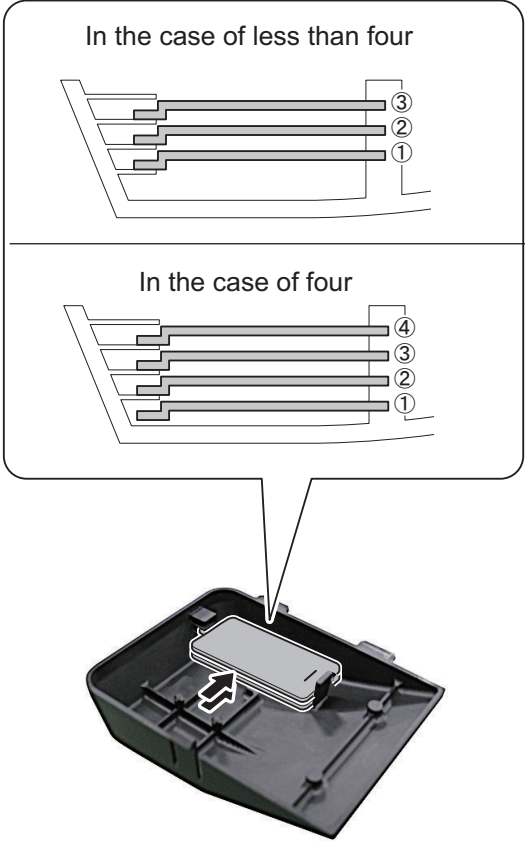
□ 4



# 5

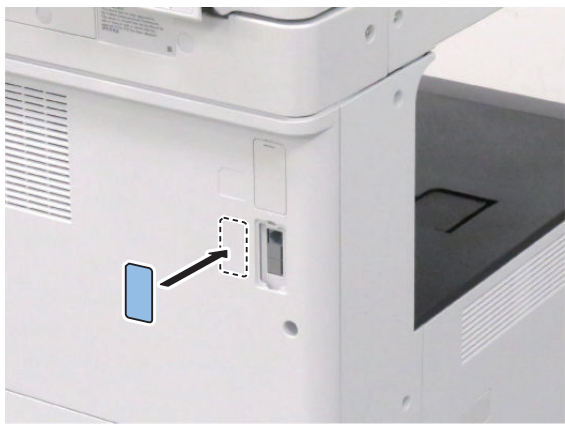
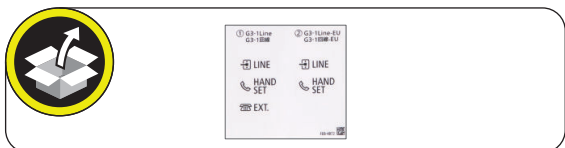
**NOTE:**

- Store the Face Cover removed in step 2 in the Tray Guide.
- The storage locations differ depending on the number of Face Covers ("Less than 4 Face Covers" or "4 Face Covers").
- Be sure to store the removed Face Covers as shown below.

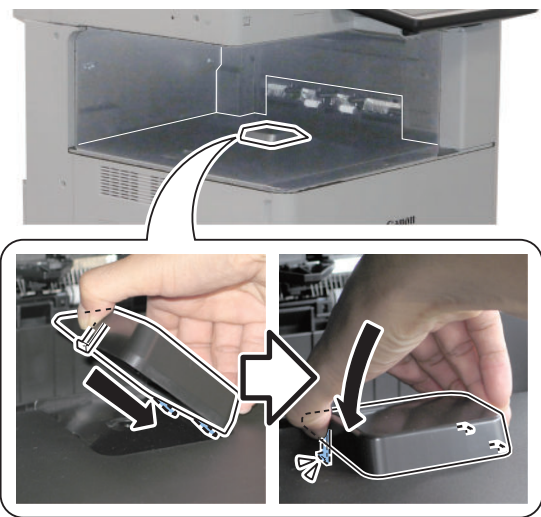


# Procedure after Work

## 1



# 6

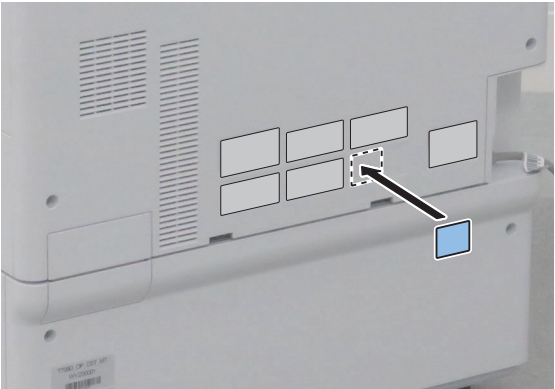
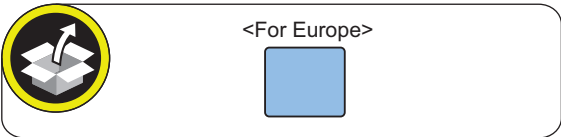
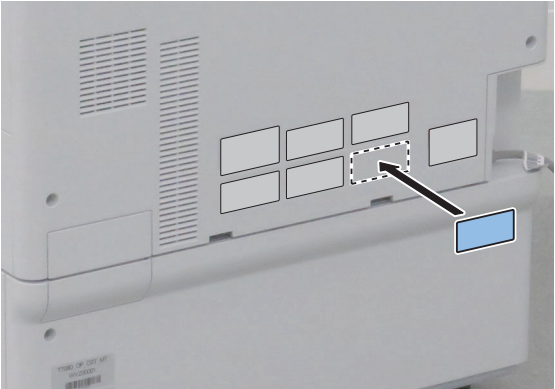
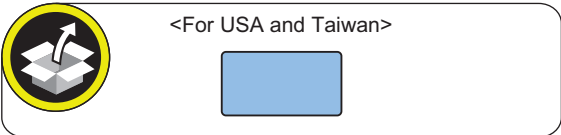


□ 2

**NOTE:**

The following work is required only when installing the Super G3 FAX Board at the same time.

Affix the following FAX Approval Label.

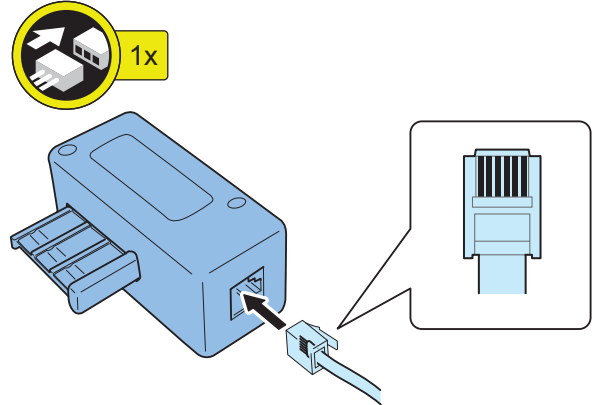
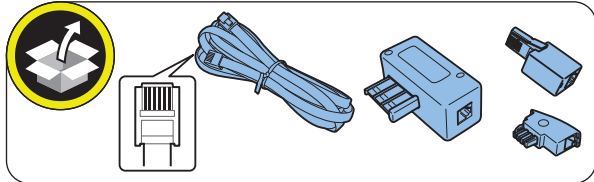


□ 3

**NOTE:**

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

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



□ 4

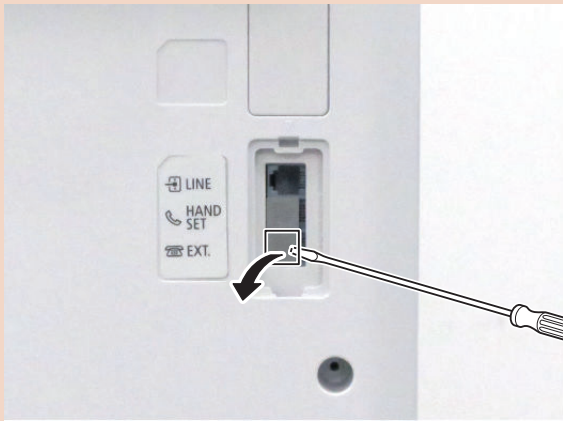
**NOTE:**

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.



**CAUTION:**

- When using the "EXT" modular terminal, use a flat-blade screwdriver, etc. to remove the Modular Spacer located in the modular terminal area.
- Keep the removed Modular Spacer.
- Do not insert a screwdriver, etc. into the modular terminal.



□ 5

Connect the Power Plug to the outlet.

□ 6

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:**

When a message prompting to turn OFF and then ON the main power appears, turn OFF and then ON the main power switch.



## Operation Setting

### Type Settings

Select the country/region of the FAX Board in Service Mode (Level 1): FAX > Type > TYPE

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



1. **Set the TYPE of country/region to install this machine, and then press OK.**
  - Service Mode (Level 1) > FAX > Type > TYPE
2. **Confirm that service mode (level 1) parameter below is "0". In the case, parameter is "1", change to "0".**
  - COPIER > OPTION > DSPLY-SW > SDTM-DSP

#### NOTE:

Change the parameter to "0" to hide [Settings/Registration] > [Preferences] > [Timer/Energy Settings] > [Auto Shutdown Time] and disable the auto shut down.

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 the communication test to check if FAX function works Correctly.



1. **Switch the control panel display to [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.**



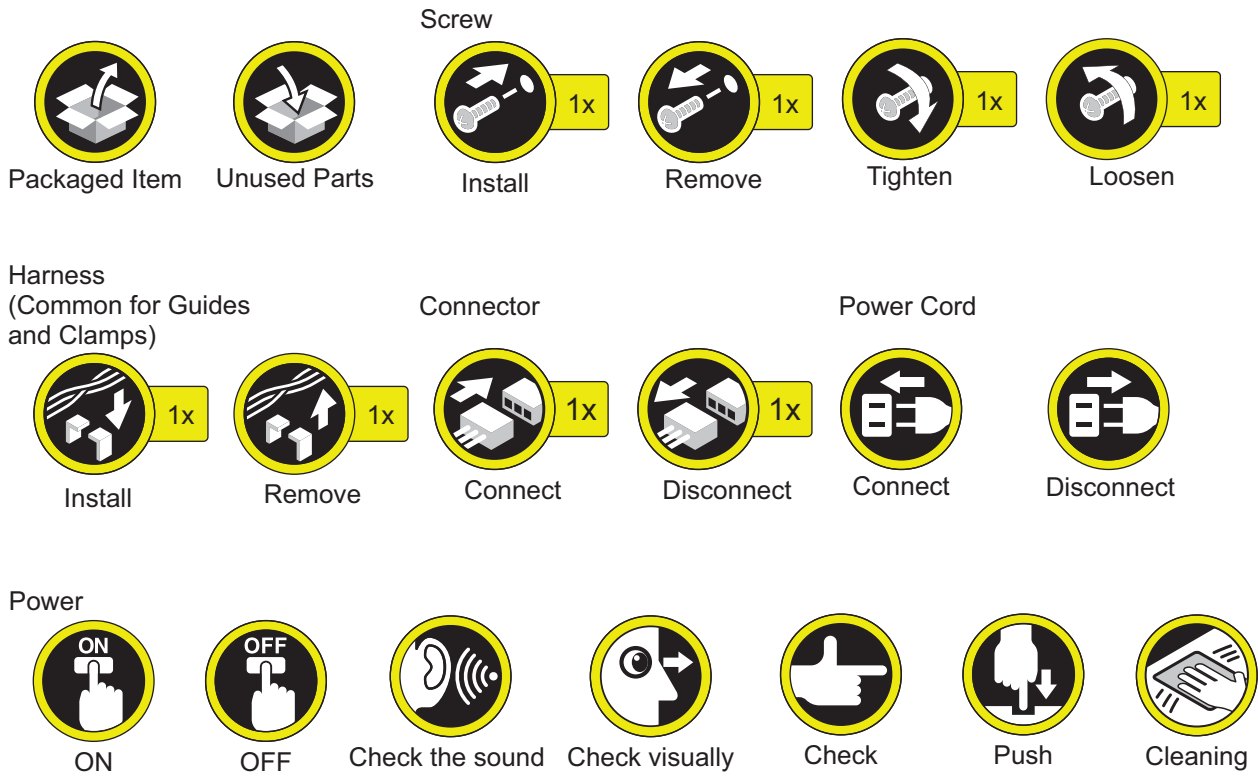
# Installation(Super G3 2nd Line Fax Board-AU1)

How to Check the Installation Procedure.....	62
Pre-checks.....	63
Installation Procedure.....	64
Checking the Operation.....	76

## How to Check the Installation Procedure

### Symbols

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



## Pre-checks

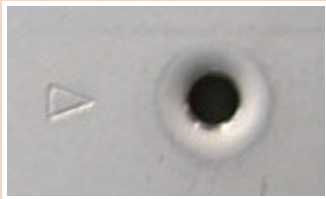
### Points to Note at Installation

- When installing the Super G3 FAX Board and this equipment at the same time, be sure to install them by referring to this document after checking "Checking the Contents" of Super G3 FAX Board.

#### CAUTION:

Marked portion

When tightening the screws, do not tighten them too tightly. Otherwise, there is a risk of damage and deformation of screw holes.

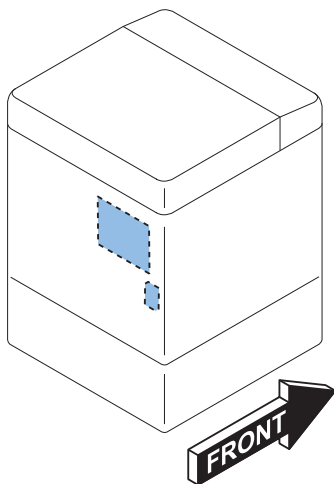


### Check Item When Turning OFF the Main Power

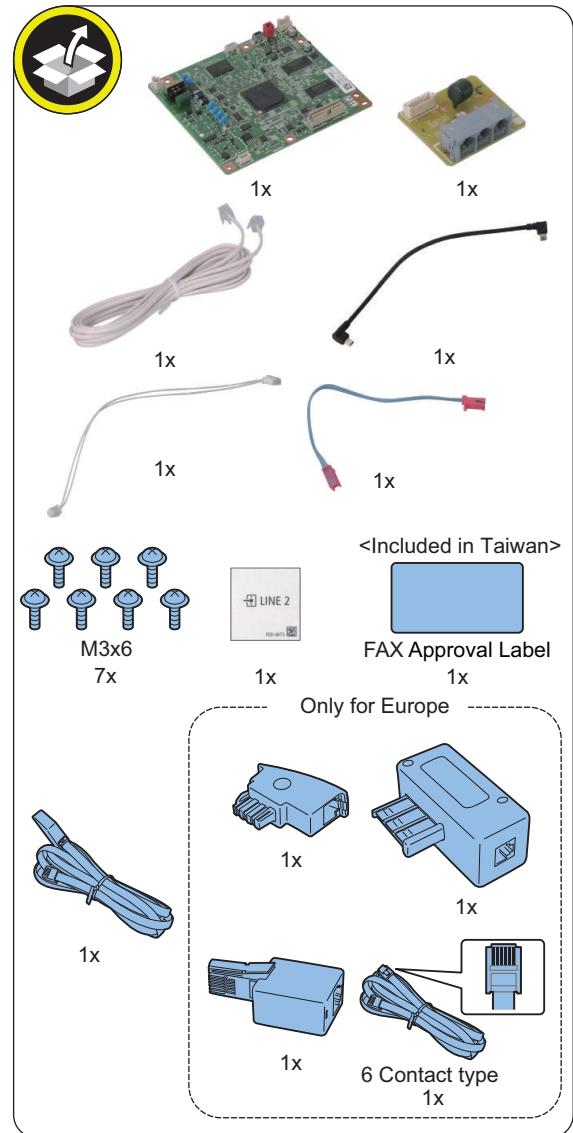
Check that the main power is OFF.

- Turn OFF the main power switch.
- Check that the display in the Control Panel and the lamp of the main power are turned off, and then disconnect the power plug.

### Installation Outline Drawing



### Checking the Contents



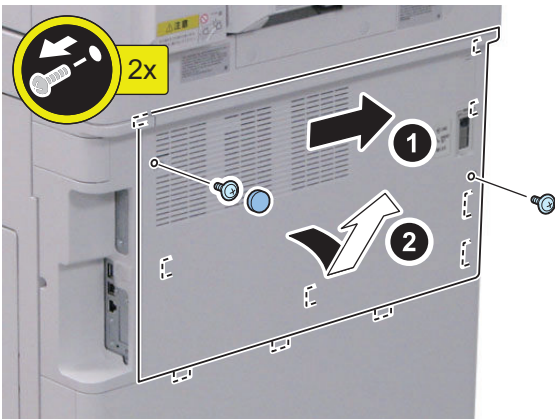
## Installation Procedure

### Remove the Covers

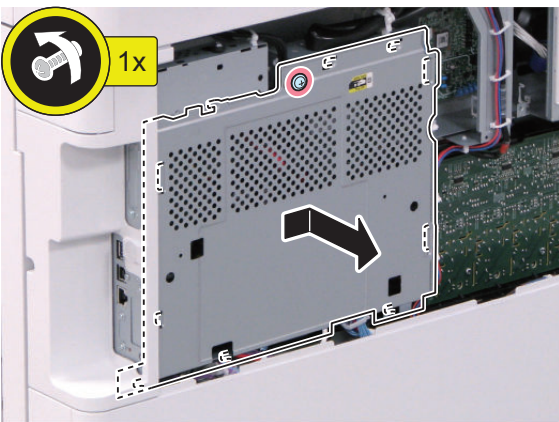
**NOTE:**

When a Telephone Cord is connected, disconnect it.

□ 1



□ 2

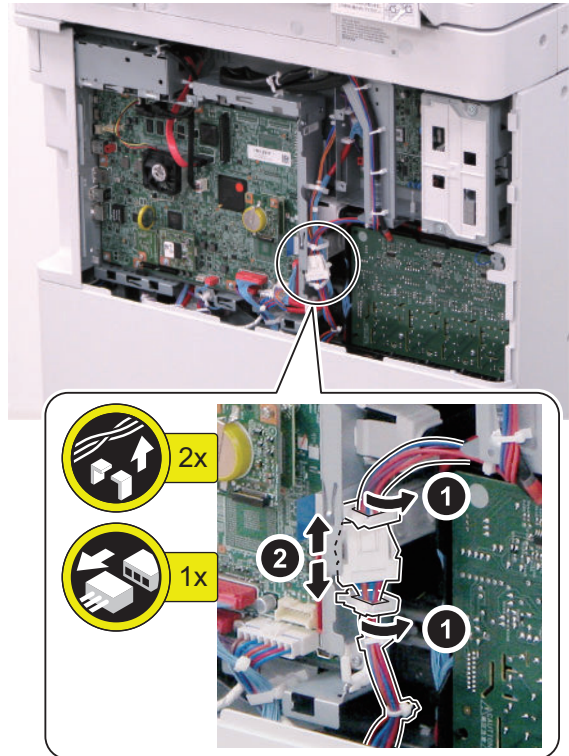


### Removing the Fax Unit (When the Fax Unit is installed)

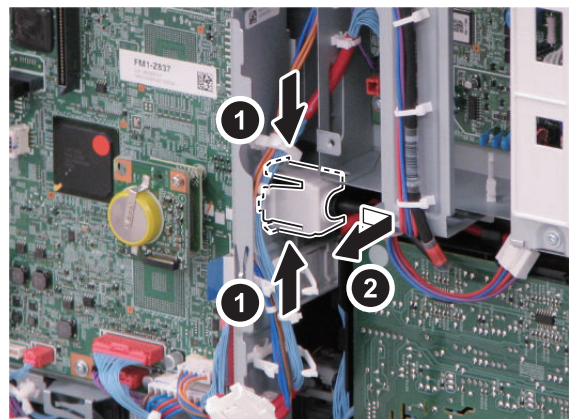
**NOTE:**

When the Fax Unit is not installed, proceed to "Installation Procedure > Installing the Fax Unit".

□ 1

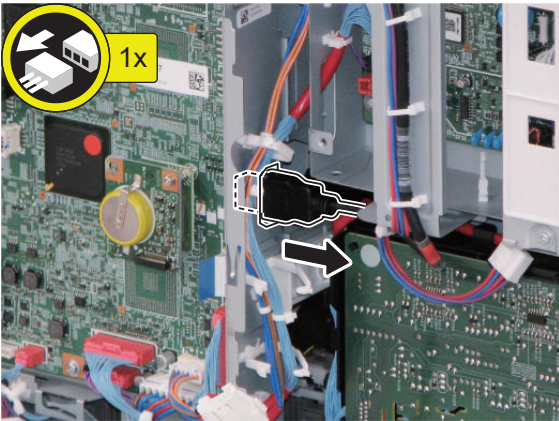


□ 2

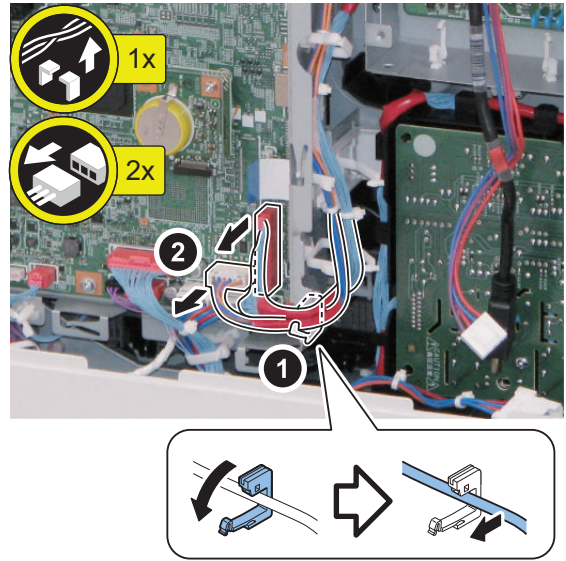




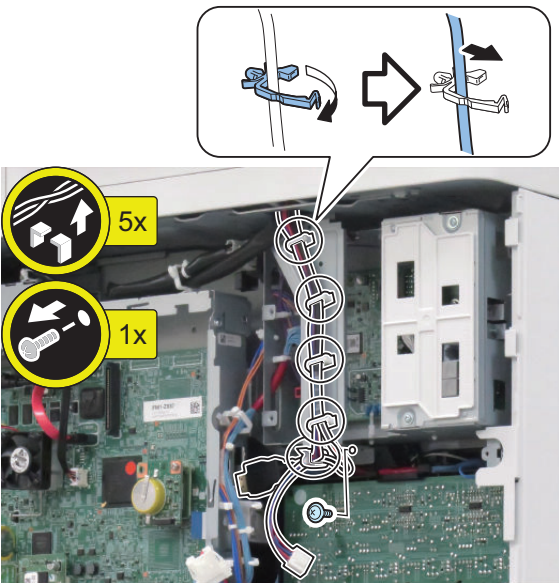
□ 3



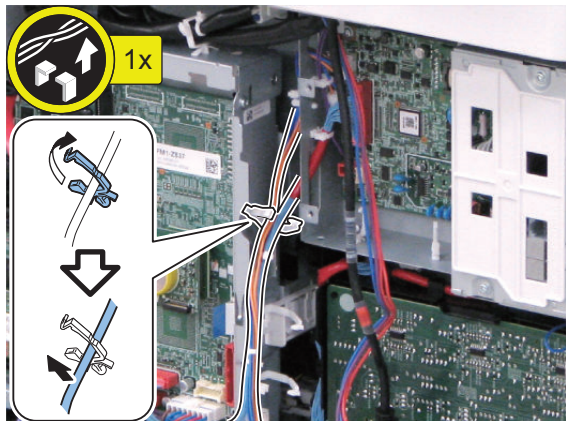
□ 6



□ 4



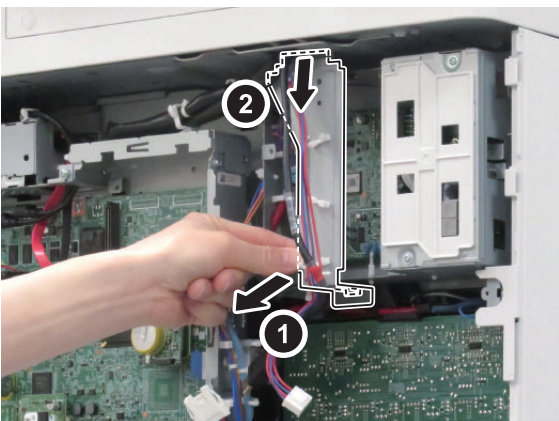
□ 7



**NOTE:**

The removed 1 Screw will be used in step 14 of "Installing the Fax Unit".

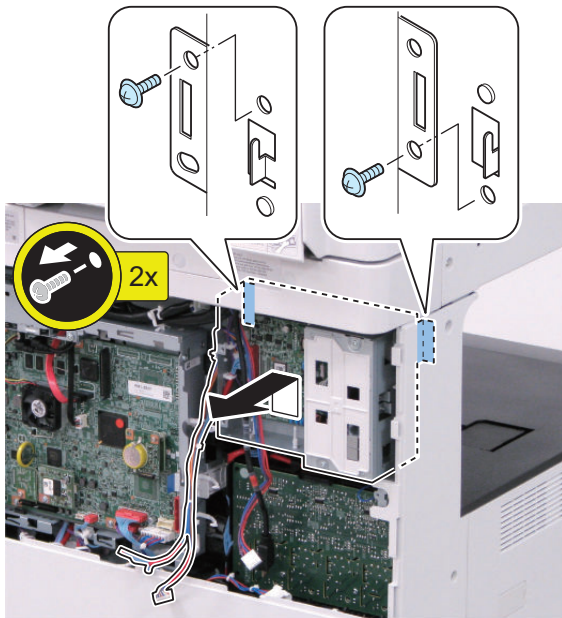
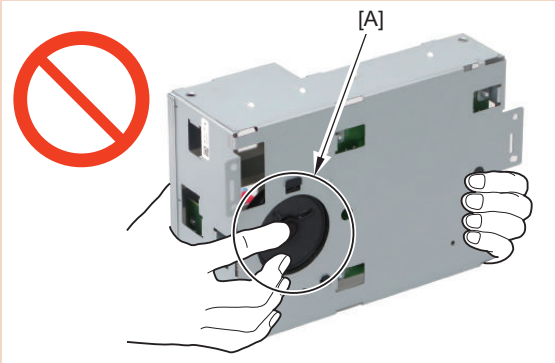
□ 5



□ 8

**CAUTION:**

- Do not directly touch the speaker [A] of the FAX Unit.
- Be sure not to damage the speaker [A].



**NOTE:**

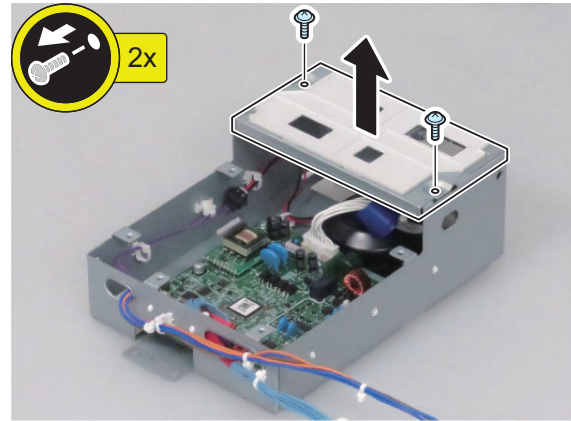
The removed 2 Screws will be used in step 12 of "Installing the Fax Unit".

● Installing the Fax Unit

□ 1

**NOTE:**

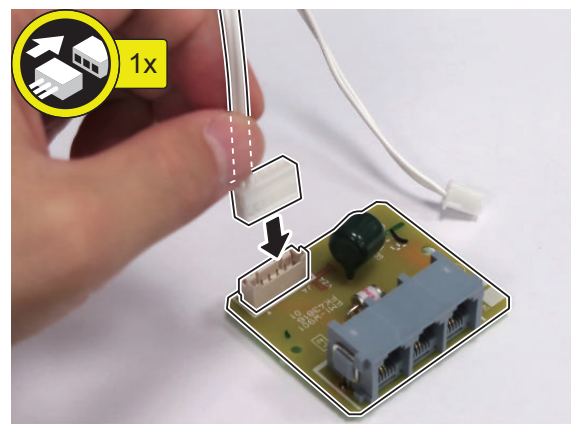
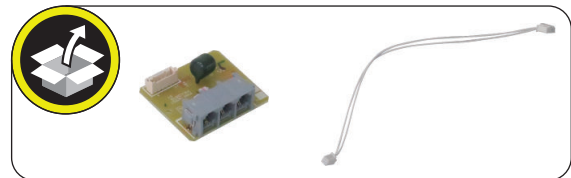
Remove the packing tape if any.



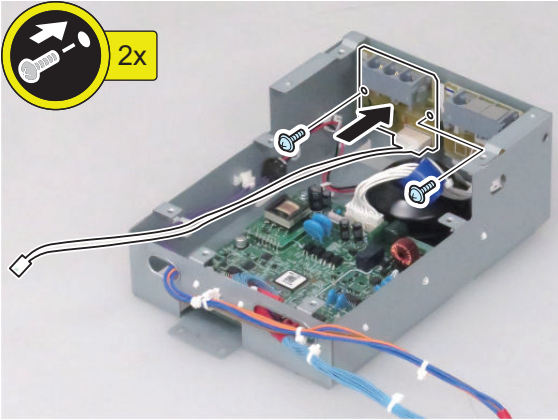
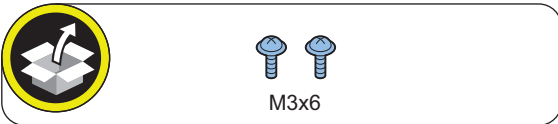
**NOTE:**

The removed FAX Frame and 2 Screws will be used in step 11.

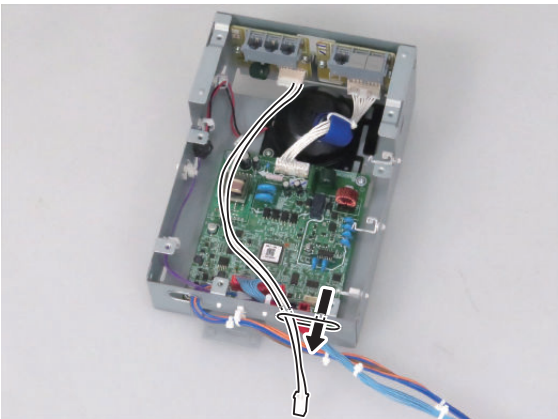
□ 2



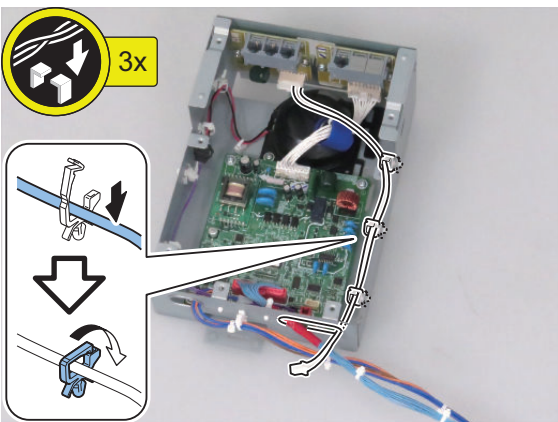
□ 3



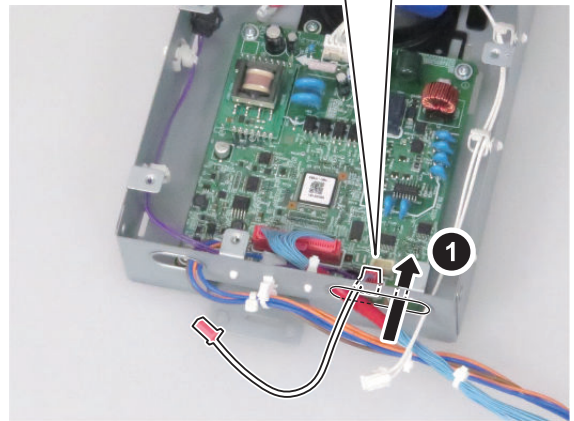
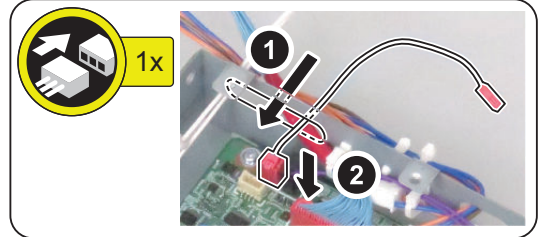
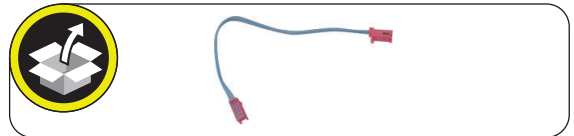
□ 4



□ 5

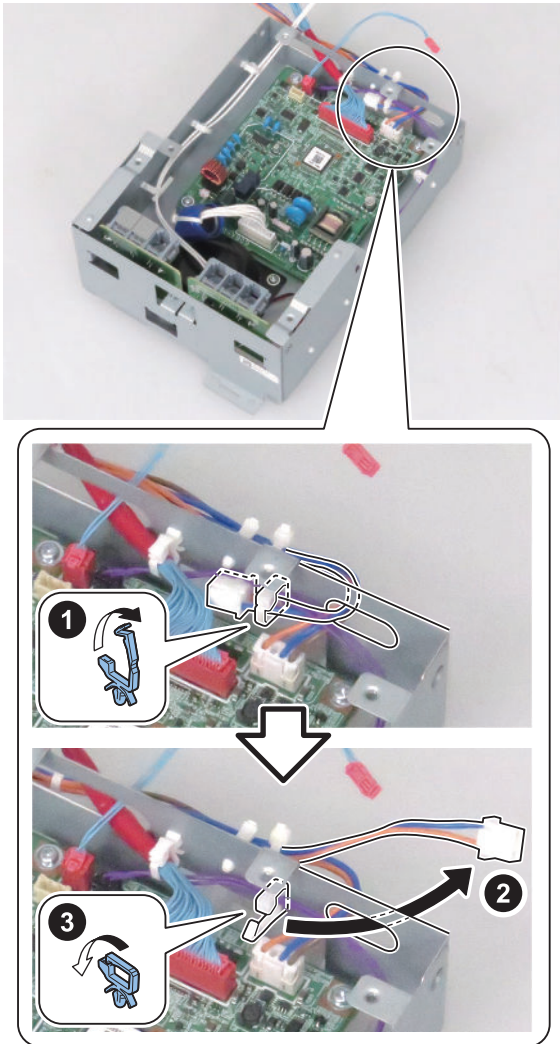


□ 6



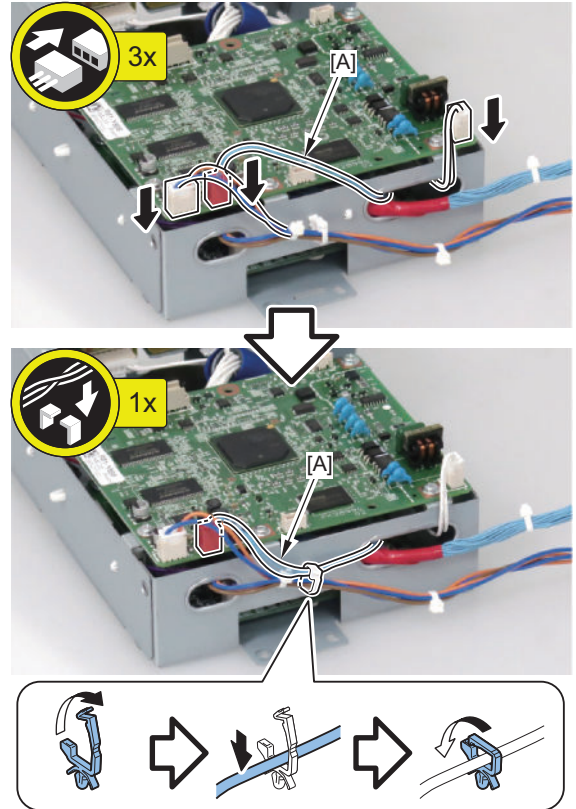


□ 7

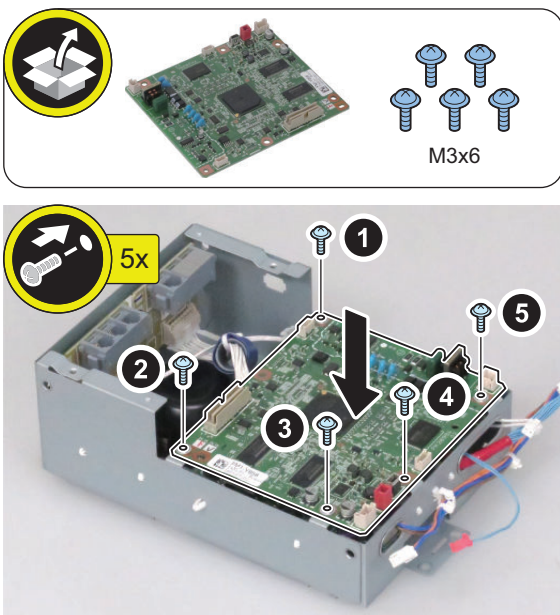


□ 9

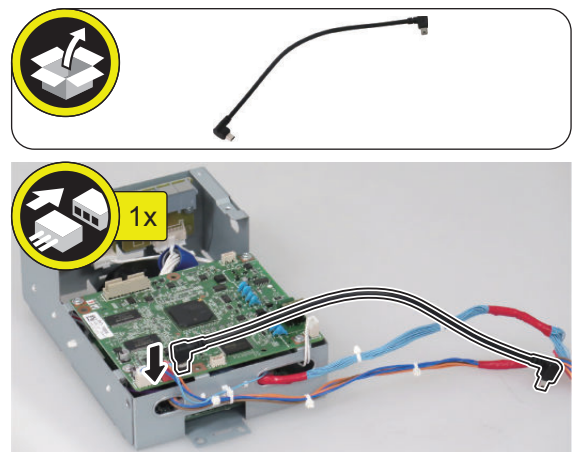
**NOTE:**  
Secure the included in [A] Cable in place using the Wire Saddle.



□ 8



□ 10

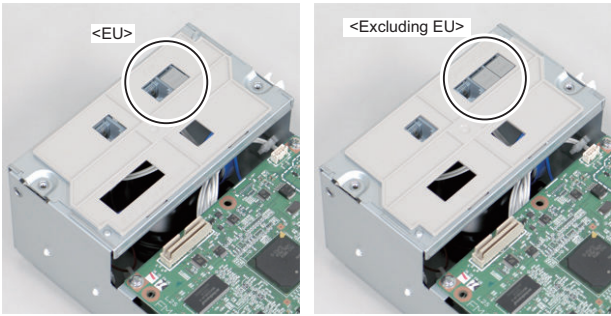


# 11

**CAUTION:**

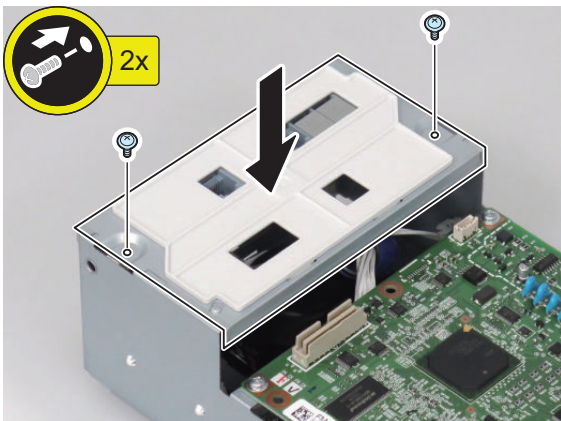
Installing the Plate

Be sure to install the FAX Frame in an orientation appropriate for the country or region where the machine is installed.



**NOTE:**

Use the screws and the FAX Frame removed in step 1.



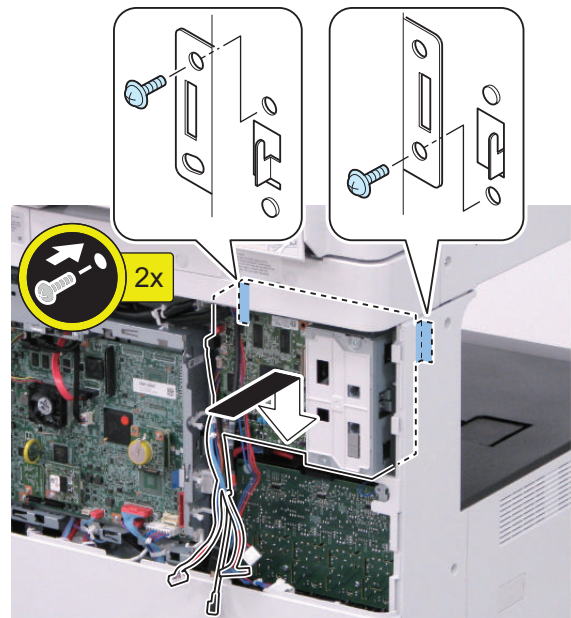
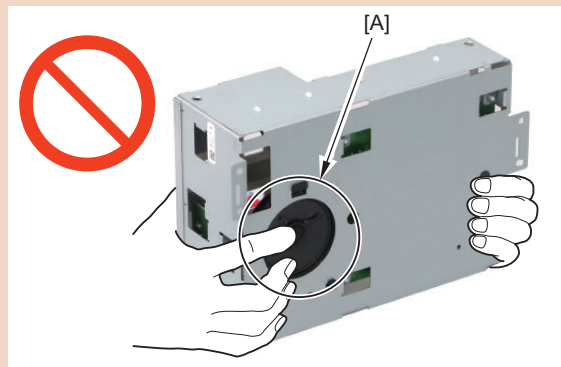
# 12

**NOTE:**

- Use the screws removed in step 8 of "Removing the Fax Unit (When the Fax Unit is installed)".
- When installing the Super G3 Fax Board at the same time, be sure to use the screws included with the Super G3 Fax Board.

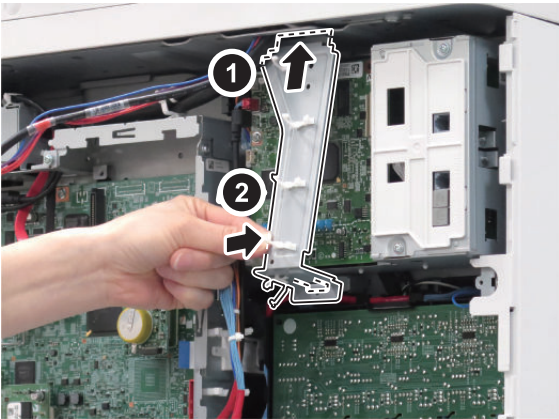
**CAUTION:**

- When installing the FAX Unit, be careful not to trap the 2 Cables of the FAX Unit.
- Do not directly touch the speaker [A] of the FAX Unit.
- Be sure not to damage the speaker [A].

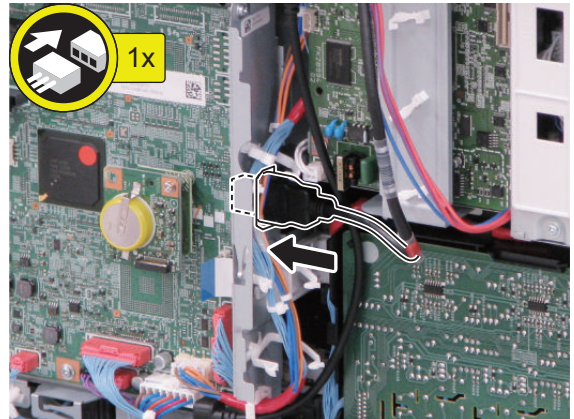




□ 13

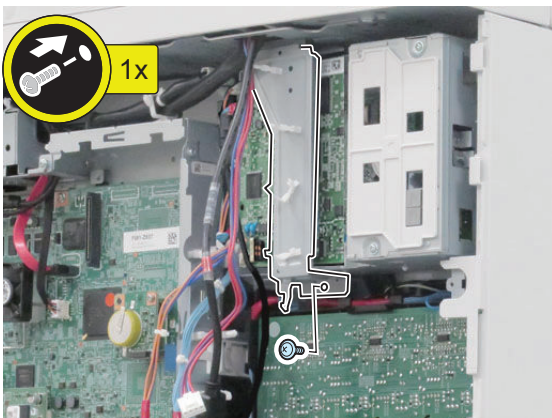


□ 16

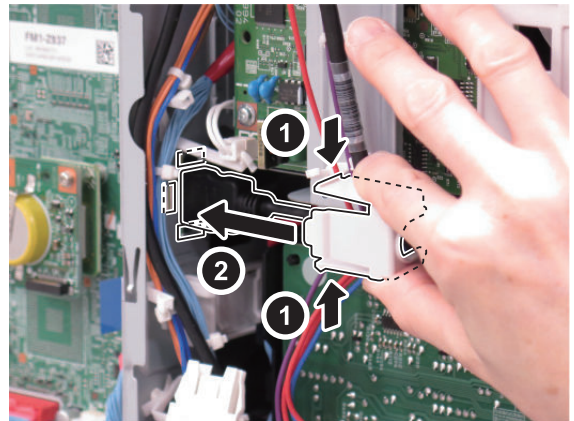


□ 14

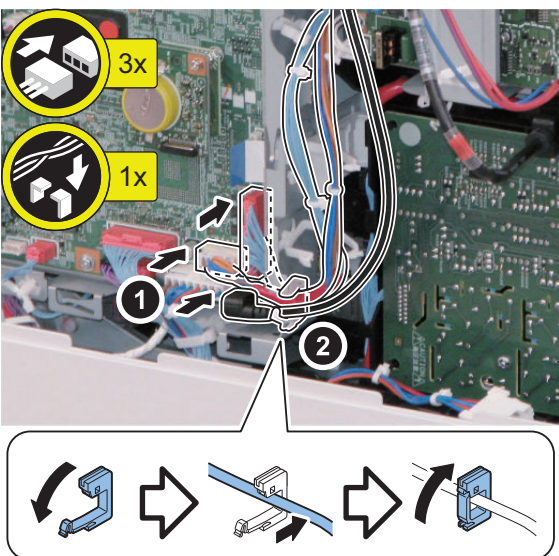
**NOTE:**  
Use the screws removed in step 4 of "Removing the Fax Unit (When the Fax Unit is installed)".



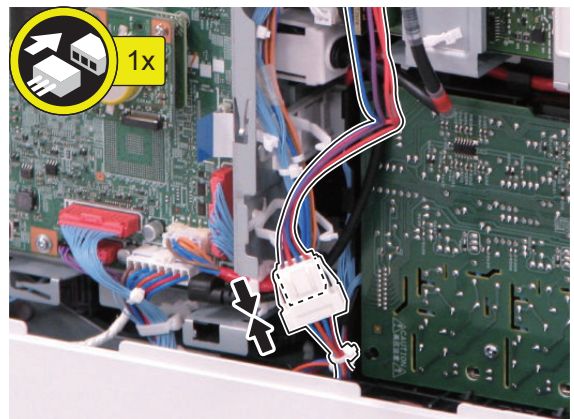
□ 17



□ 15

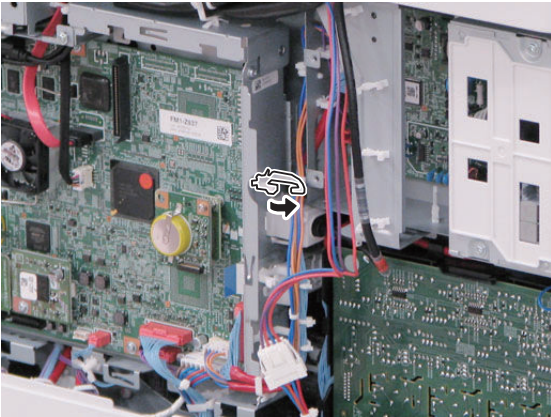


□ 18

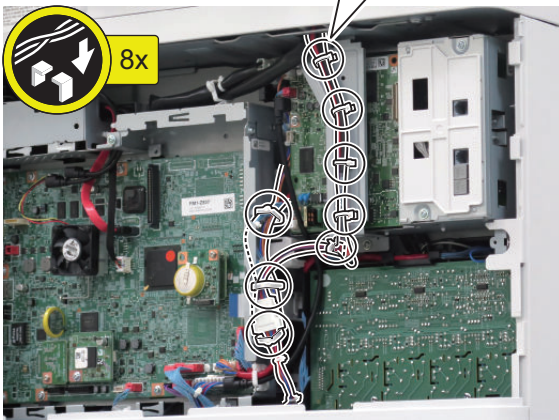
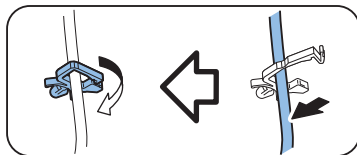


# 19

**NOTE:**  
Open the Wire Saddle if it is closed.

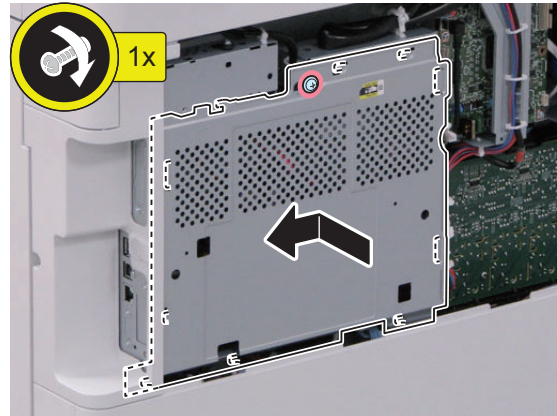


# 20



## Installing the Covers

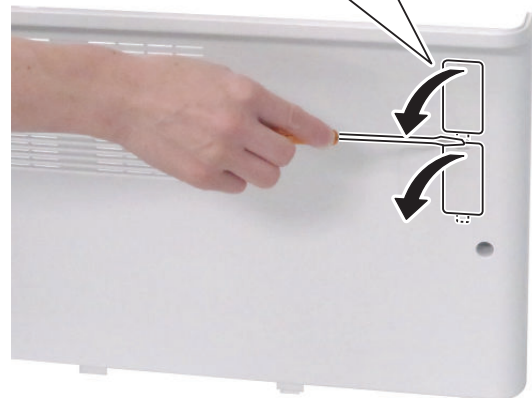
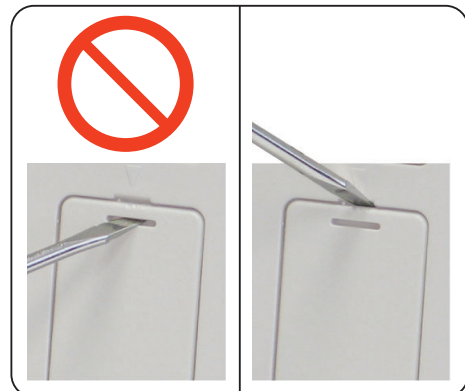
### 1



### 2

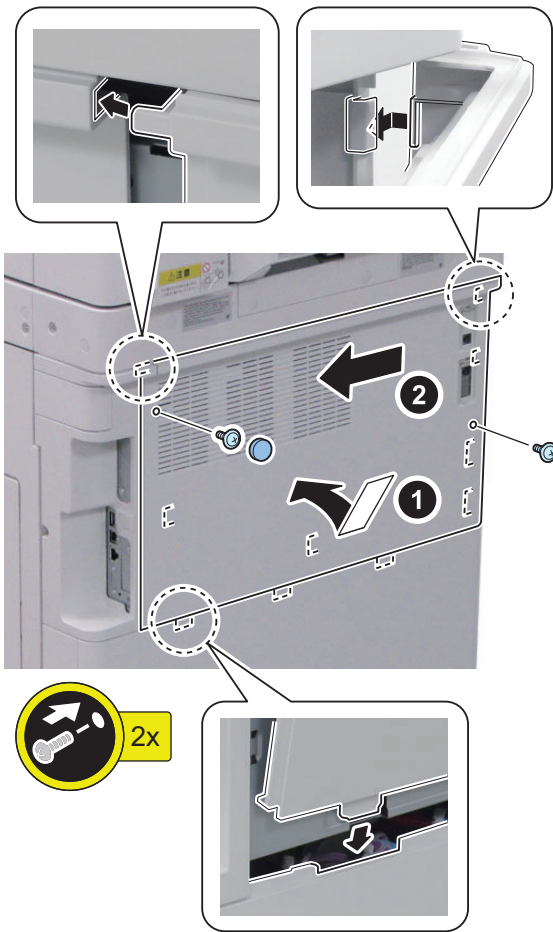
**NOTE:**

- When installing the Super G3 FAX Board (1-Line) at the same time, remove the Face Cover of the 1-Line.
- Store the removed Face Cover in the Tray Guide in step 5.





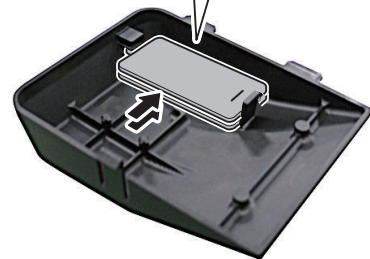
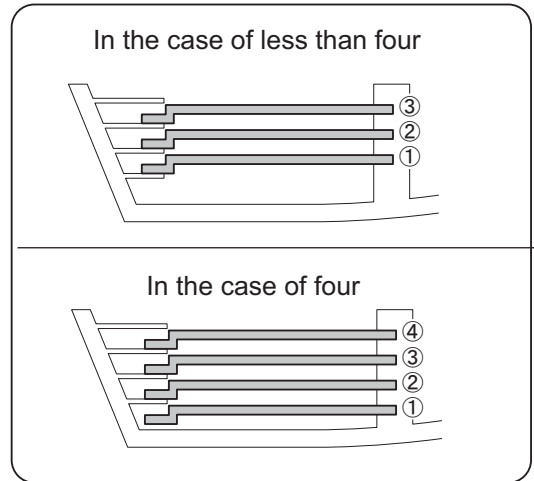
□ 3



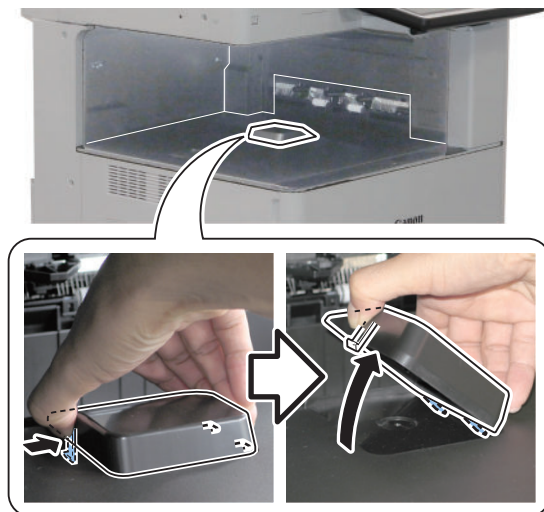
□ 5

**NOTE:**

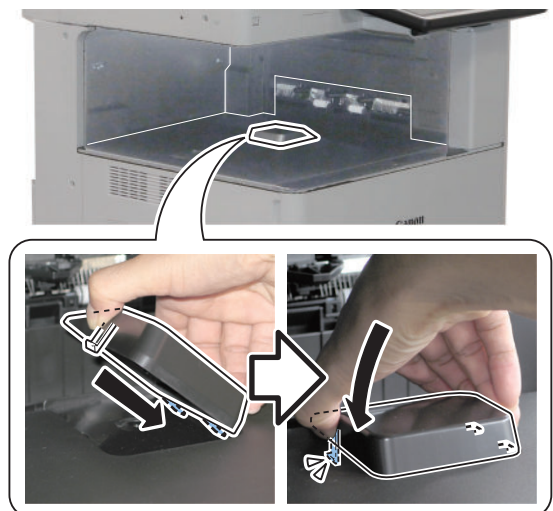
- Store the Face Cover removed in step 2 in the Tray Guide.
- The storage locations differ depending on the number of Face Covers ("Less than 4 Face Covers" or "4 Face Covers").
- Be sure to store the removed Face Covers as shown below.



□ 4



□ 6

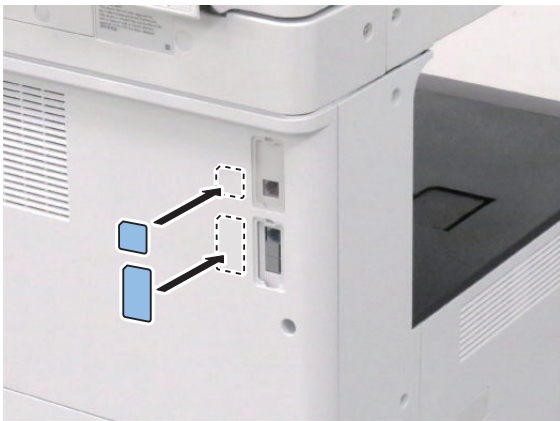
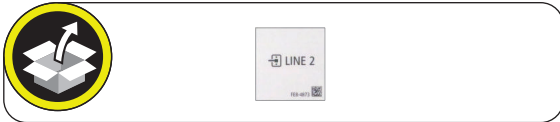


## Procedure after Work

### 1

**NOTE:**

When installing the Super G3 FAX Board at the same time, be sure to affix an appropriate Modular Label included in the package of the Super G3 FAX Board.

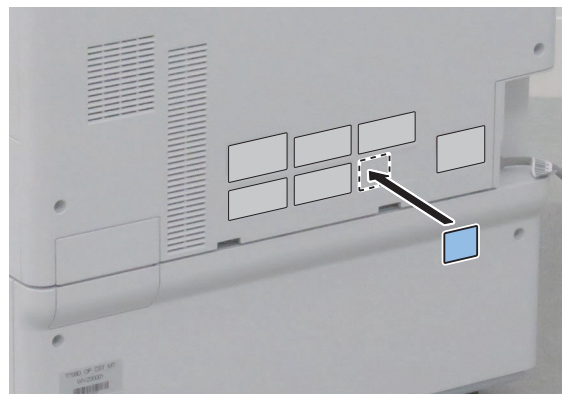
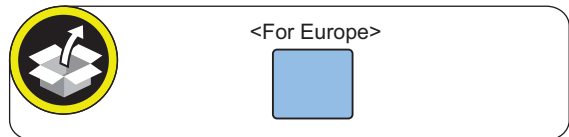
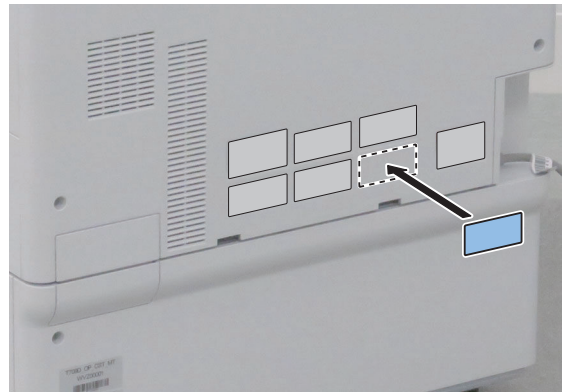
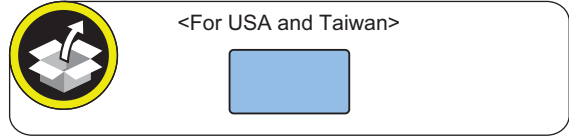


### 2

**NOTE:**

The following work is required only when installing the Super G3 FAX Board at the same time.

Affix the following FAX Approval Label.

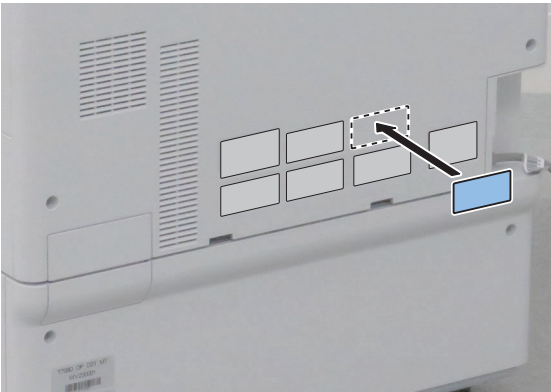
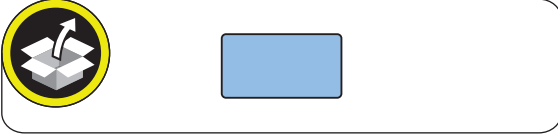


□ **3**

**NOTE:**

This step is only for Taiwan.

Affix the following FAX Approval Label.



□ **4**

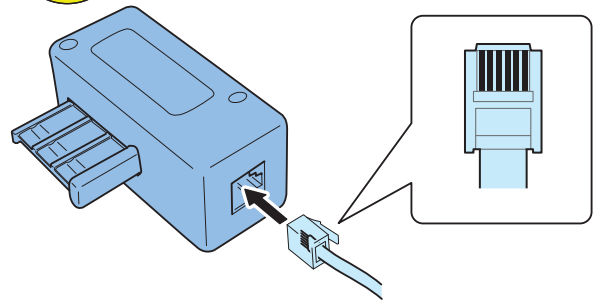
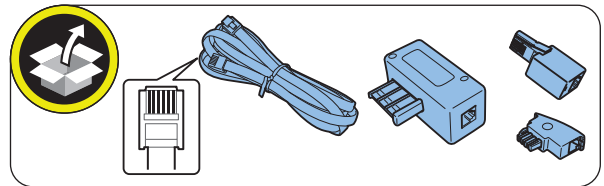
**NOTE:**

- This step is only for Europe.
- When installing the Super G3 FAX Board at the same time, assemble it by following the same procedure.

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

**CAUTION:**

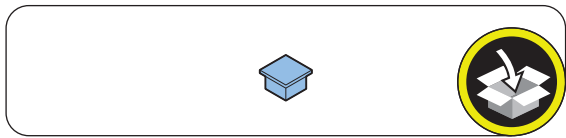
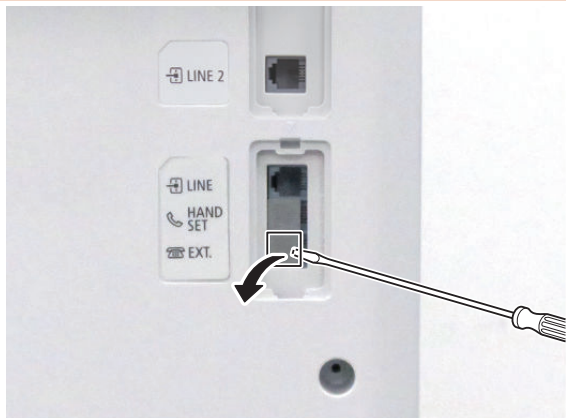
Do not connect the Telephone Cord (2 contact type) with the PTT Plug.



# 5

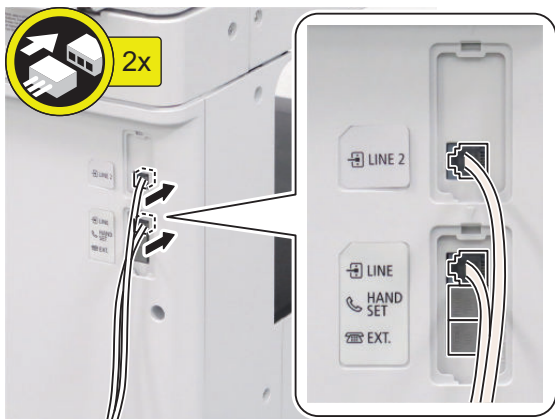
**CAUTION:**

- When using the "EXT" modular terminal, use a flat-blade screwdriver, etc. to remove the Modular Spacer located in the modular terminal area.
- Keep the removed Modular Spacer.
- Do not insert a screwdriver, etc. into the modular terminal.



**NOTE:**

Connect the end of the PTT Cable or Telephone Cord to the Modular Jack (LINE 1 and LINE 2) on the host machine, and connect the other end to the Modular Jack on the wall.



# 6

Connect the power plug to the outlet.

# 7

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:**

When a message prompting to turn OFF and then ON the main power appears, turn OFF and then ON the main power switch.

# 8

If a message prompting the user to update the version appears, press [Update] to automatically update the version of this equipment.

**NOTE:**

If [Skip] is selected, a message prompting the user to update the version will appear every time the host machine is started. In the service mode (Level 2) shown below, it is possible to set not to display the message.

- COPIER > OPTION > FNC-SW > VER-CHNG



## Checking the Operation

### NOTE:

After completion of "Checking the Operation" of the Super G3 FAX Board, execute "Checking the Operation" of this equipment.

## Type Settings

Select the country/region of the FAX Board in Service Mode (Level 1): FAX > Type > TYPE

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



1. **Set the TYPE of country/region to install this machine, and then press OK.**
  - Service Mode (Level 1) > FAX > Type > TYPE
2. **Confirm that service mode (level 1) parameter below is "0". In the case, parameter is "1", change to "0".**
  - COPIER > OPTION > DSPLY-SW > SDTM-DSP

### NOTE:

Change the parameter to "0" to hide [Settings/Registration] > [Preferences] > [Timer/Energy Settings] > [Auto Shutdown Time] and disable the auto shut down.

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

## Basic Settings

### 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 2] > [Register User Telephone No.] > Enter FAX number > [OK]
2. **Set the type of telephone line.**  
[Settings/Registration] > [Function Settings] > [Send] > [Fax Settings] > [Set Line] > [Line 2] > [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 [Fax] display.**
2. **Select the sending line.**  
Press [Fax] > [Options] > [Select Line], select the added line, then press [OK] button.
3. **Send and receive a test original between the equipment and a remote unit with which a communication test can be performed and check if it can be sent and receive correctly.**
  1. Press [Status Monitor/Cancel] > [Send] > [Job Log] and select [Fax] from pull down menu.
  2. Press [Comm Report] > [OutPut Normally] > [Start Printing].
  3. The number printed following colon (:) in "COMM.MODE" field on COMMUNICATION MANAGEMENT REPORT TX/RX shows line type used for sending/receiving.  
E.g. "ECM:2" => Line 2

### NOTE:

If E744-5000 error code (Fax software version mismatch error) occurred while sending or receiving fax, upgrade the firmware of 2-line Fax to the latest version.