

# Installation Procedure

## **FAX Board**

## **Super G3 FAX Board-N1**

The Canon logo is displayed in a bold, black, sans-serif font. The letter 'C' is stylized with a thick stroke and a small gap at the top. The letters 'a', 'n', 'o', and 'n' are also bold and closely spaced.



## 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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*Printed in Japan*

## Caution

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

# Symbols Used



This documentation uses the following symbols to indicate special information:

Symbol	Description
	Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.
	Indicates an item requiring care to avoid electric shocks.
	Indicates an item requiring care to avoid combustion (fire).
	Indicates an item prohibiting disassembly to avoid electric shocks or problems.
	Indicates an item requiring disconnection of the power plug from the electric outlet.
 Memo	Indicates an item intended to provide notes assisting the understanding of the topic in question.
 REF.	Indicates an item of reference assisting the understanding of the topic in question.
	Provides a description of a service mode.
	Provides a description of the nature of an error indication.



The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.

In the diagrams,  represents the path of mechanical drive; where a signal name accompanies the symbol, the arrow  indicates the direction of the electric signal.

The expression "turn on the power" means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.

2. In the digital circuits, '1' is used to indicate that the voltage level of a given signal is "High", while '0' is used to indicate "Low". (The voltage value, however, differs from circuit to circuit.) In addition, the asterisk (\*) as in "DRMD\*" indicates that the DRMD signal goes on when '0'.

In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

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

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



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# Chapter 1   Installation Procedure

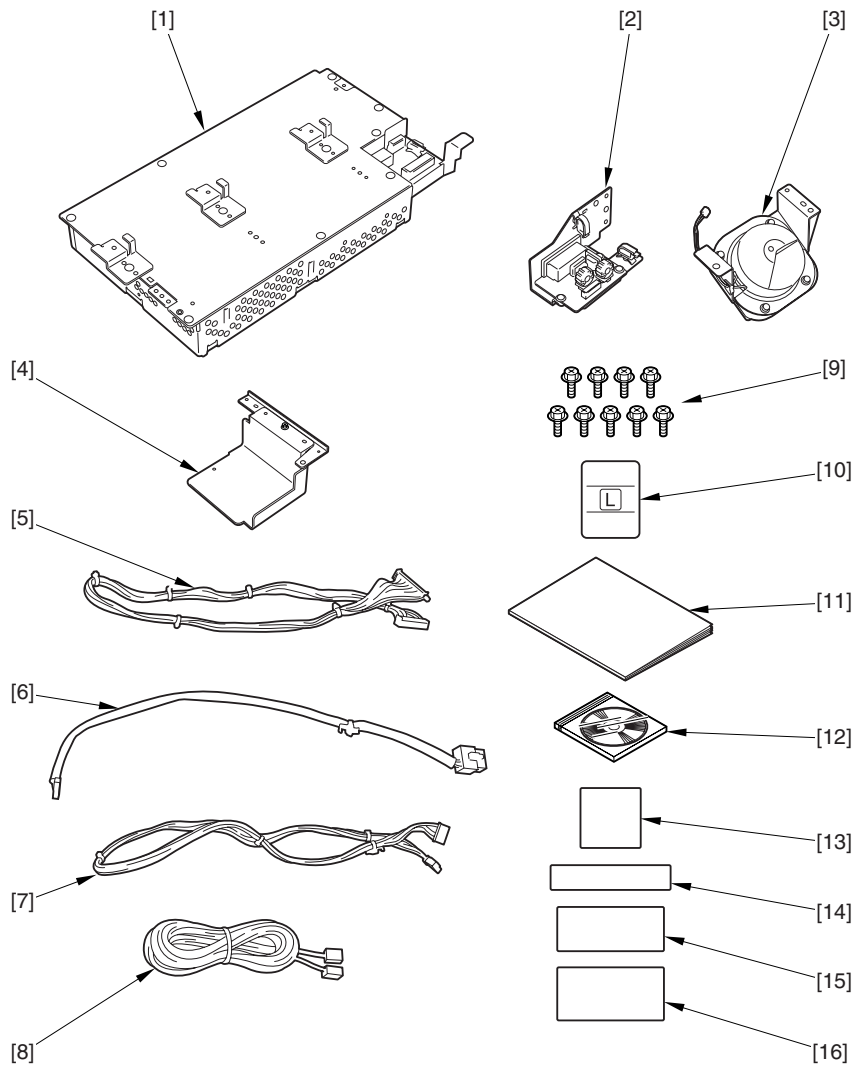
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## 1.1 Making Pre-Checks

### 1.1.1 Checking the Contents

0003-1581

**⚠** The Board requires the presence of the separately sold Resolution Switching Board-A1 for operation.



F-1-1

T-1-1

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[1]	G3 fax unit	---	1 pc.	[9]	Screw (M3x8)	---	9 pc.
[2]	Modular unit	---	1 pc.	[10]	Modular label	---	1 pc.
[3]	Speaker unit	---	1 pc.	[11]	Fax Guide	---	1 pc.
[4]	Dust-blocking cover	---	1 pc.	[12]	Fax driver CD-ROM unit	---	1 pc.
[5]	Fax communication cable	---	1 pc.	[13]	Super G3 label	---	1 pc.
[6]	Modular cable	---	1 pc.	[14]	FCC label	---	1 pc.
[7]	Fax power cable	---	1 pc.	[15]	A-TICK label	---	1 pc.
[8]	Modular cord	---	1 pc.	[16]	Fax certification label	---	1 pc.

## 1.2 Installation Procedure

### 1.2.1 Preparing the Host

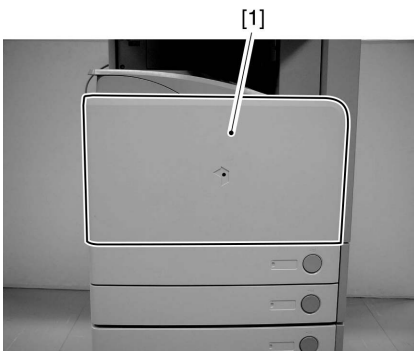
Machine

0003-1583



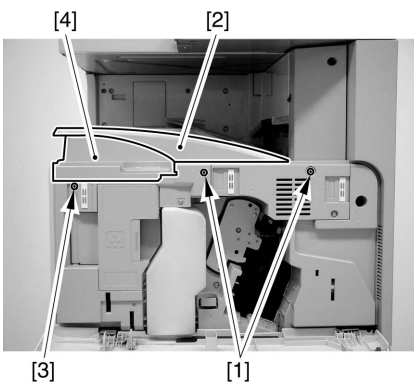
- Be sure that the host machine has properly been installed before starting the work.
- Be sure to turn off the control panel power switch and the main power switch in sequence; then, disconnect the power plug from the power outlet.

1) Open the front cover [1].



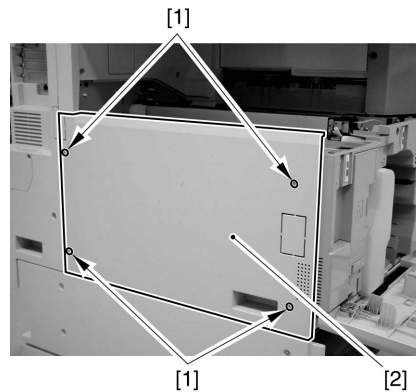
F-1-2

2) Loosen the 2 screws [1], and detach the delivery tray [2]; then, remove the screw [3], and detach the delivery tray lower cover [4].



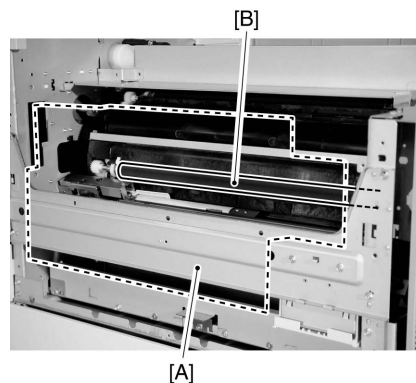
F-1-3

3) Remove the 4 screws [1], and detach the left cover [2].



F-1-4

**⚠** The G3 fax unit is located near the developing rotary assembly [A]; depending on where the developing cylinder [B] is found, the plate of the unit can damage the surface of the cylinder when the unit is being mounted.

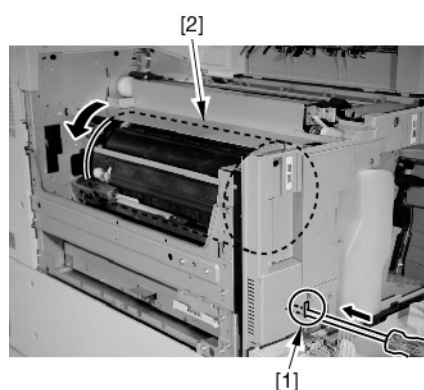


F-1-5

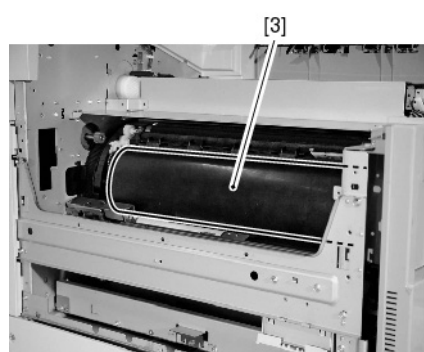
Be sure to perform step 4) so that the developing cylinder may be put out of the way to avoid damage.

4) Insert a screwdriver through the angular hole [1] of the inside cover (left); then, turn the developing rotary [2] counterclockwise by hand until the toner cartridge (Bk) [3] is where it is in the figure.





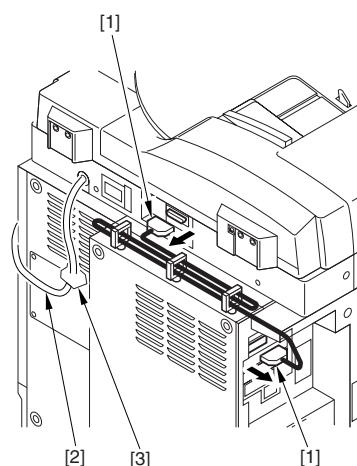
F-1-6



F-1-7

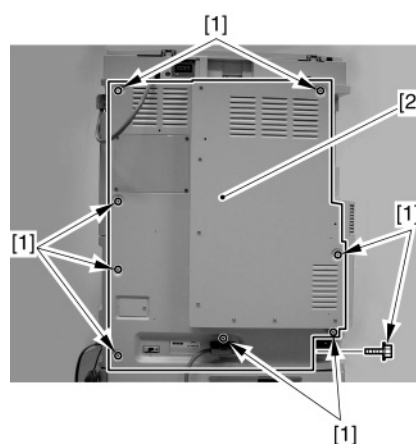
**⚠** When turning the developing rotary, take full care not to touch the developing cylinder.

5) Remove the 2 connectors [1] of the reader communication cable. Then, remove the reader power cable [2] from the cable clump [3].



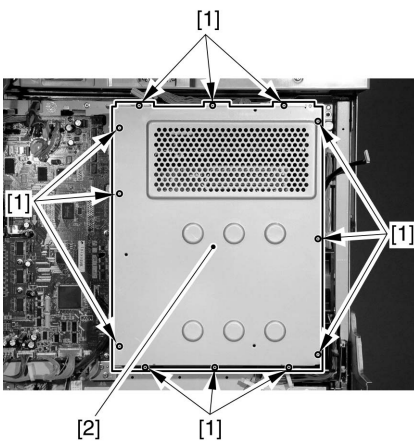
F-1-8

6) Remove the 9 screws [1], and detach the rear cover [2].



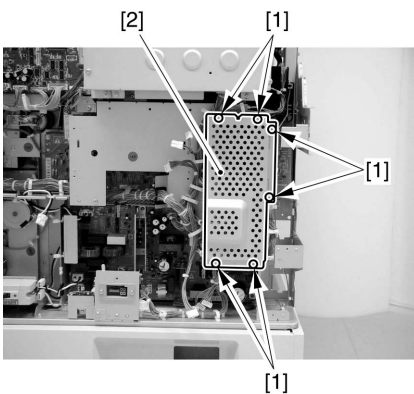
F-1-9

7) Remove the 12 screws [1], and detach the controller cover [2].



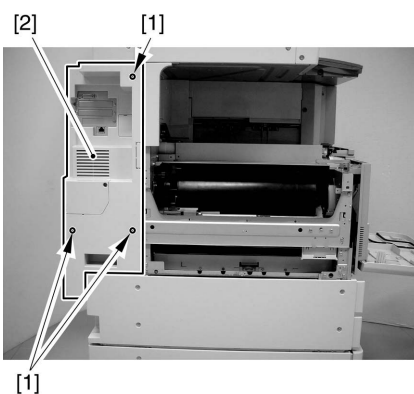
F-1-10

8) Remove the 6 screws [1], and detach the controller power supply cover [2].



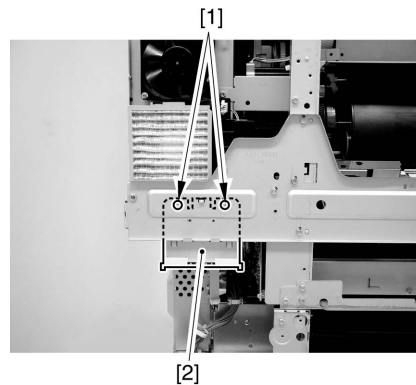
F-1-11

9) Remove the 3 screws [1], and detach the left cover (rear) [2].



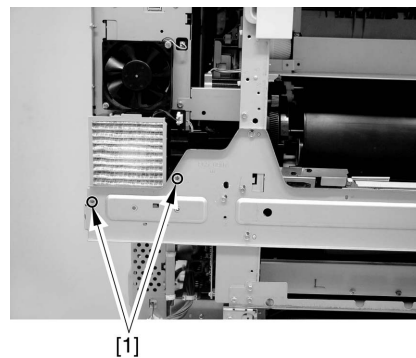
F-1-12

10) Remove the 2 screws [1], and detach the left grip (rear) [2].

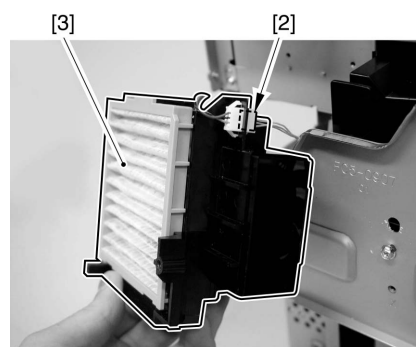


F-1-13

11) Remove the 2 screws [1], and disconnect the connector [2]; then, detach the fan assembly [3].



F-1-14



F-1-15

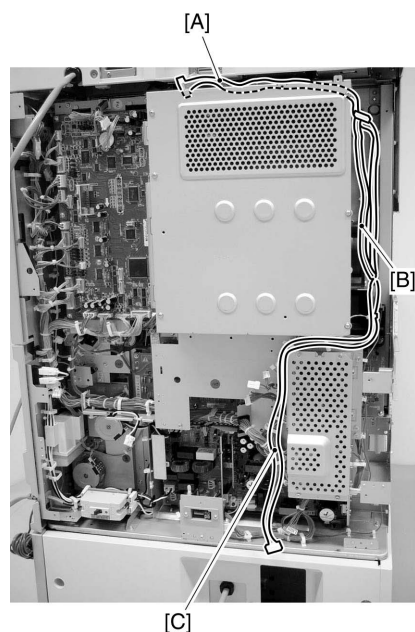
## 1.2.2 Connecting the Connector and Mounting the Modular Unit

0003-1584

**⚠** Be sure that the power plug of the host machine is disconnected.

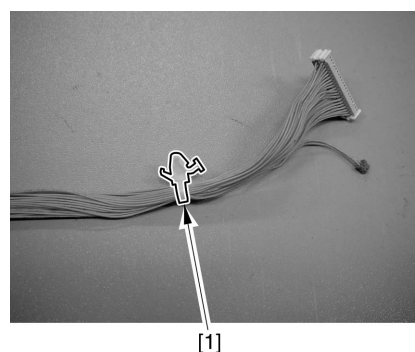
Memo:

The cables that come with the Board are of 3 types: fax communication cable [A], modular cable [B], and fax power cable [C]. These cables are routed as follows:

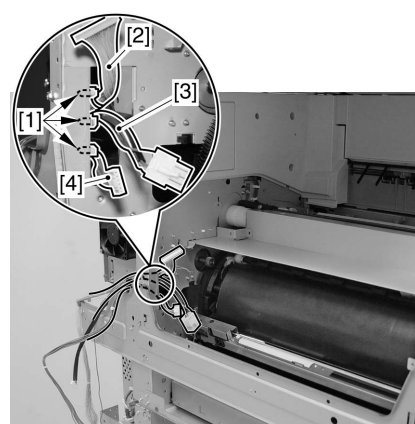


F-1-16

1) Fit the foot of the reuse band [1] attached to one end of each cable (fax communication cable in photo) in place on the rear frame; starting from the top, the fax communication cable [2], modular cable [3], and fax power cable [4].

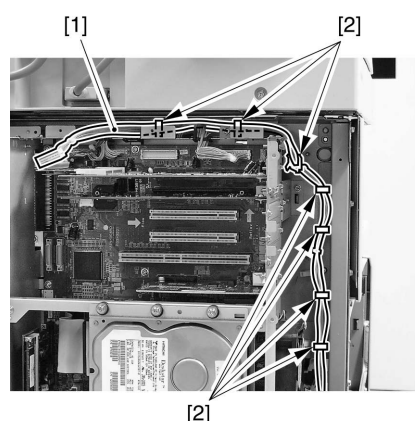


F-1-17



F-1-18

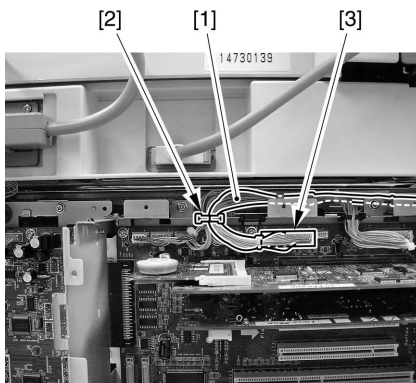
2) Fix the fax communication cable [1] in place with 7 cable clamps [2].



F-1-19

3) Fix the fax communication cable [1] in place using the edge saddle [2] of the controller box, and connect it to the connector (J1210) [3] of the main

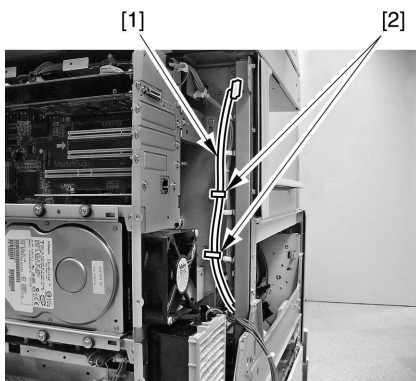
controller PCB.



F-1-20

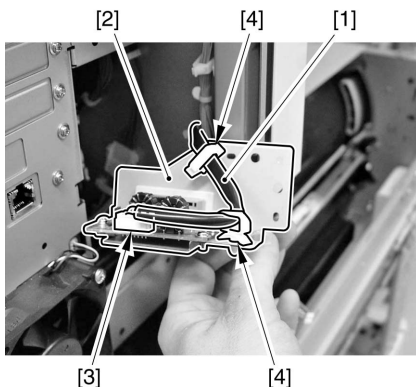
4)Put the controller cover back in place.

5)Secure the modular cable [1] in place using 2 cable clamps [2].



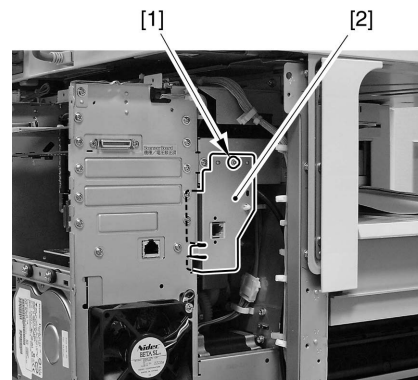
F-1-21

6)Connect the modular cable [1] to the connector [3] of the included modular unit [2]; then, fix it in place with 2 cable clamps [4].



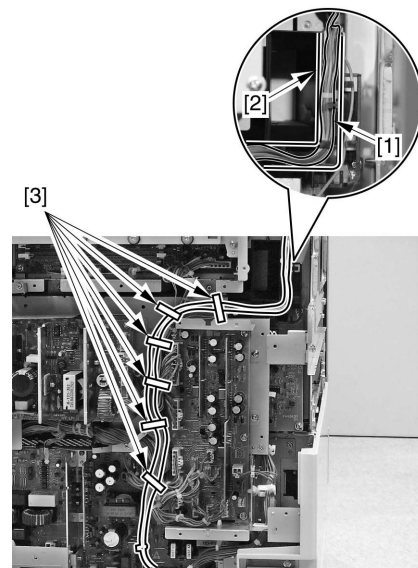
F-1-22

7)Mount the modular unit [2] using the included screw [1].



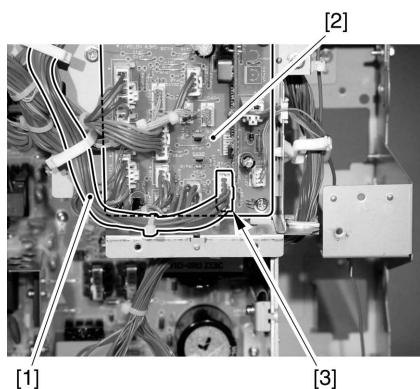
F-1-23

8)Route the fax power cable [1] through the cable guide [2]; then, fix it in place using 6 cable clamps [3].



F-1-24

9)Connect the fax power cable [1] to the connector (J221) [3] on the controller power supply PCB [2].



F-1-25

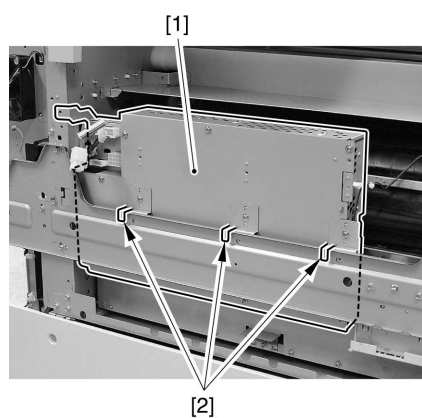
10) Put the controller power supply cover back in place.

### 1.2.3 Mounting the G3 Fax

#### Unit

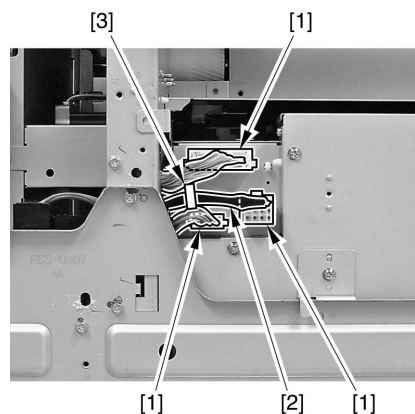
0003-1586

1) Hook the 3 points of the bent [2] of the fax unit [1] in place on the machine left side plate.



F-1-26

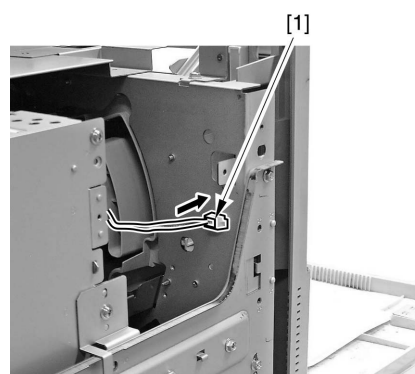
2) Connect the 3 cables to the 3 relay connectors [1] of the G3 fax unit.



F-1-27

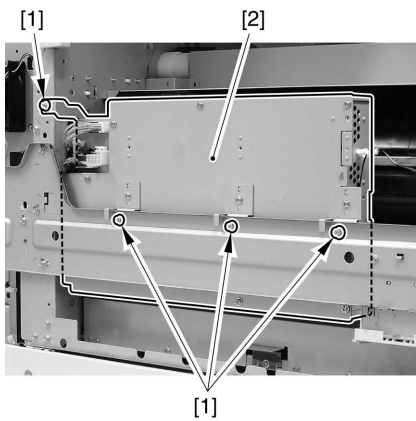
⚠ Of the 3 cables, use a cable clamp [3] for the modular cable [2] only.

3) Mount the speaker cable (w/ relay connector) [1] connected to the G3 fax unit by pushing it through the hole in the machine front side plate.



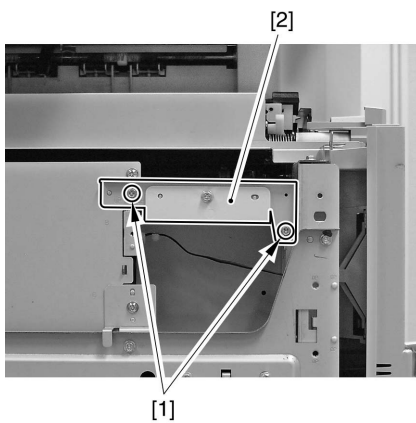
F-1-28

4) Secure the G3 fax unit [2] in place using the 4 included screws [1].



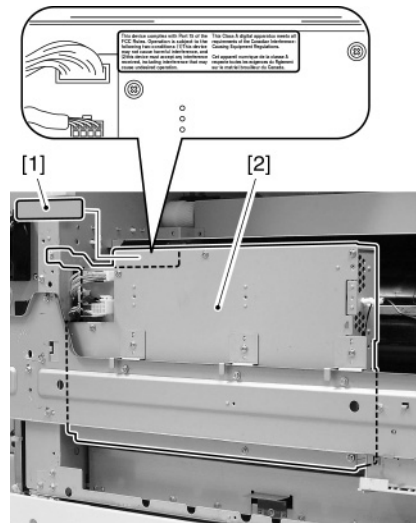
F-1-29

- 5) Mount the included dust-blocking cover [2] using the 2 included screws [1].



F-1-30

- 6) Attach the FCC label [1] in the package (only C.USA/C.CI/C.LTN) to the front side of the FAX unit [2].



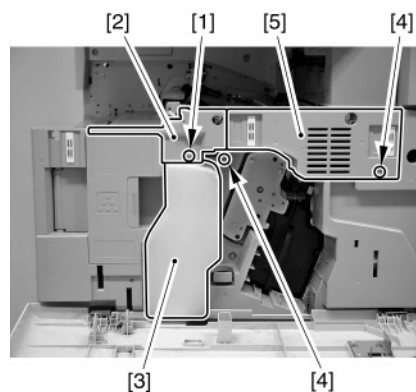
F-1-31

## 1.2.4 Mounting the Speaker

Unit

0003-1083

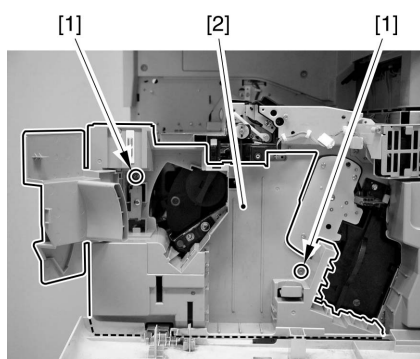
- 1) Open the front cover, then the toner container replacement cover.
- 2) Remove the screw [1], and detach the waste toner unit retainer [2] and the ITB waste toner unit [3]; then, remove the 2 screws [4], and detach the inside cover (middle) [5].



F-1-32

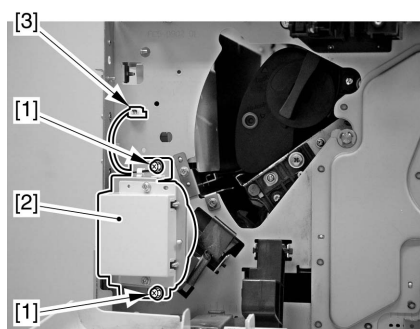
- 3) Remove the 2 screws [1], and detach the inside cover (left) [2].





F-1-33

- 4) Mount the included speaker unit [2] using the 2 included screws [1]; then, connect the speaker cable to the relay connector [3].



F-1-34

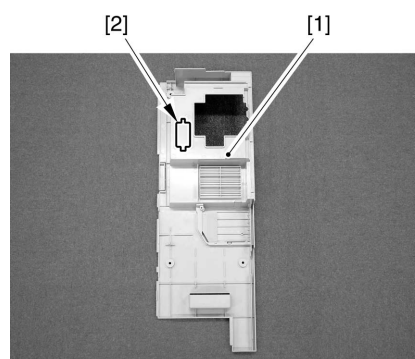
## 1.2.5 After the Work

0003-1587

- 1) Mount the removed fan assembly and the left grip (rear) back in place.

**⚠** Ensure that the fan cable is not caught when attaching the fan assembly.

- 2) Detach the face cover [2], which is snapped in place to the left cover (rear) [1].

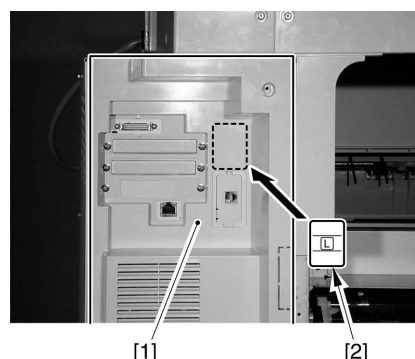


F-1-35

Memo:

The detached face cover will no longer be used.

- 3) Mount the left cover (rear) [1]; then, attach the included modular label [2] to the correct location of the left cover (rear) [1].



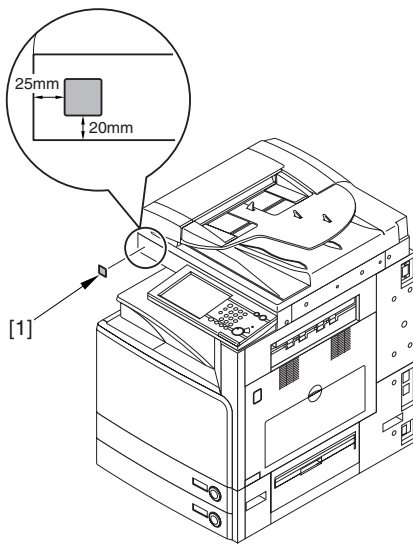
F-1-36

- 4) Mount the removed covers back in place; then, close the front cover.  
5) Attach the various labels that come with the board to the machine.

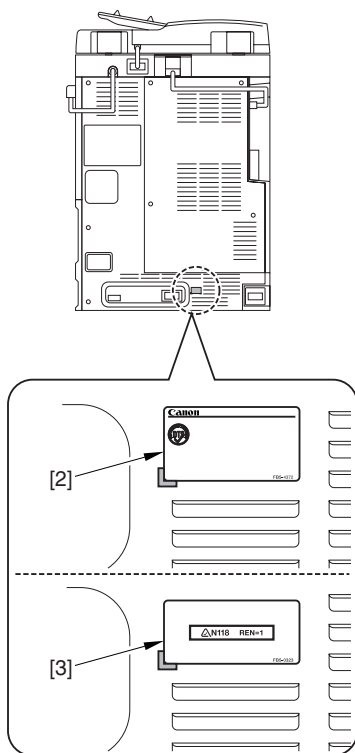
[1] Super G3 label (only C.USA, C.CI, C.LTN)

[2] Fax certification label (only C.DEU)

[3] A-TICK label (only C.A)



F-1-37



F-1-38

- 6) Connect one end of the included modular cord to the modular jack in the wall; then, connect the other end to the L side of the modular jack of the board.
- 7) Connect the power plug of the host machine to the power outlet; then, turn on the main power switch.



## 1.3 Checking the Operation

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### 1.3.1 Type Settings

0003-1651

In service mode, select the type of the fax board as follows: press the Additional Function key, press the 2 and 8 keys at the same time, and press the Additional Function key once again; then, select [fax] and then [type], and select the country using the Up/Down key. At the end, press the OK key.

### 1.3.2 Settings According to Line Type

0003-1140

Select either dial pulse (20PPS/10PPS) or push tone to suit the type of telephone line being used:  
Additional Functions key > Communication Settings > User Settings > Tel Line Type.

### 1.3.3 Fax Communication Test

0003-1653

Carry out a communications test to see if the fax functions of the machine operate as expected:

- 1) Bring up the Send screen on the control panel.
- 2) Send a test original to a party capable of a communication test, and check to see if the original is sent normally.
- 3) Send a text original from the other party, and check to see if the original is sent normally.



Nov 12 2003

