Installation Procedure

Canon Color
Voic Guidance Kit-A2

Canon

Jul 19 2005

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.

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.
	Indicates an item intended to provide notes assisting the understanding of the topic in question.
	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

1.1 Points to Note About Installation

1.1.1 Points to Note About Installation

0009-9966

iR6570/5570 Series

⚠

Before starting to install the Voice Guidance Kit, be sure that the Expansion Bus C-1 has properly been installed.

iR C3170/2570

⚠

When installing this product to the host machine, additional memory needs to be installed depending on the host machine model.
For more information, see "System Configuration" in "Specifications" in the host machine Service Manual.
iR 4570/3570 Series,iR 2870/2270 Series

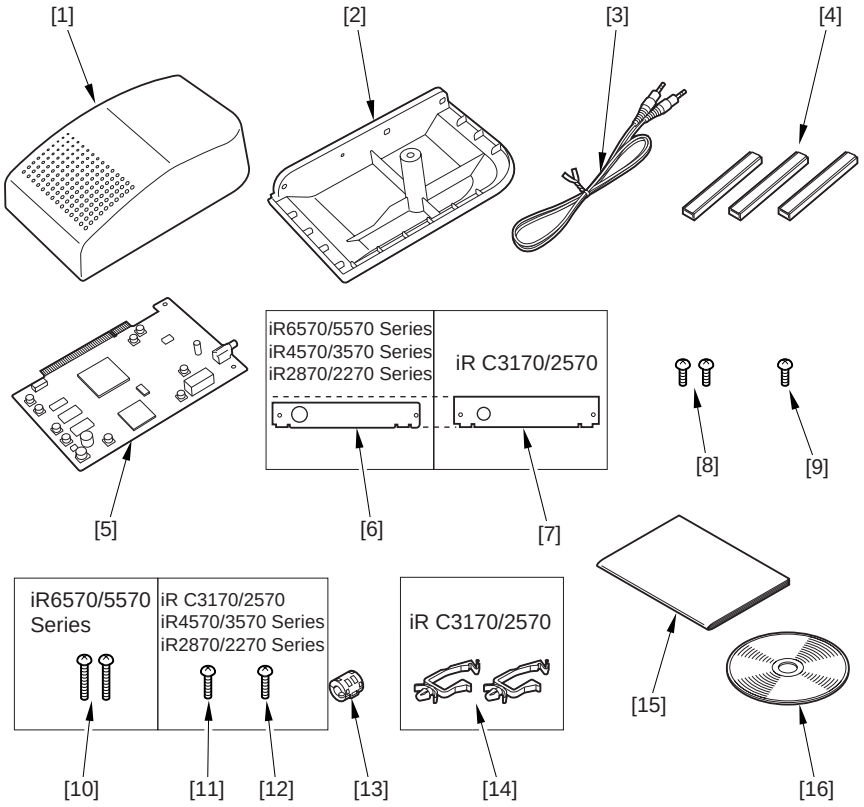
⚠

Before starting to install the Voice Guidance Kit, be sure that the Expansion Bus B-1 has properly been installed.

1.2 Checking components

1.2.1 Checking Items in the Package

0009-9970



F-1-1

T-1-1

[1]	Speaker unit (upper)	1 pc.
[2]	Speaker unit (lower)	1 pc.
[3]	Cable	1 pc.
[4]	Cord guide	3 pc.
[5]	Voice Guidance Board	1 pc.
[6]	Voice Guidance Board Face Plate (used for the iR6570/5570 Series,iR 4570/3570 Series,iR 2870/2270 Series)	1 pc.
[7]	Voice Guidance Board Face Plate (used for the iR C3170/2570)	1 pc.
[8]	Binding screw (M3X6)	2 pc.
[9]	Binding screw (M4X6)	1 pc.

[10]	Binding screw (M3X40) (used for the iR6570/5570 Series)	2 pc.
[11]	Binding screw (M3X16) (used for the iR C3170/2570,iR 4570/ 3570 Series,iR 2870/2270 Series)	1 pc.
[12]	Binding screw (M4X16) (used for the iR C3170/2570,iR 4570/ 3570 Series,iR 2870/2270 Series)	1 pc.
[13]	Ferrite core	1 pc.
[14]	Clamp (used for the iR C3170/2570)	2 pc.
[15]	Users Guide	1 pc.
[16]	User Manual CD-ROM	1 pc.

1.3 Installation procedure

1.3.1 Installation Procedure (iR6570/5570 Series)

0009-9971

1. Turning Off the Host Machine

⚠

Turning Off the Main Power

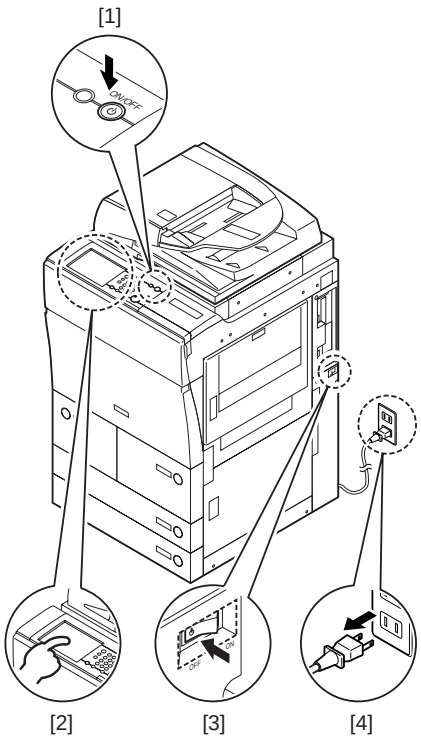
When turning off the main power, be sure to go through the following in strict sequence to protect the machine's hard disk:

[1] Hold down on the power switch on the control panel for 3 sec or more.

[2] Operate on the touch panel according to the shutdown sequence indicated so that the main power switch may be turned off.

[3] Turn off the main power switch.

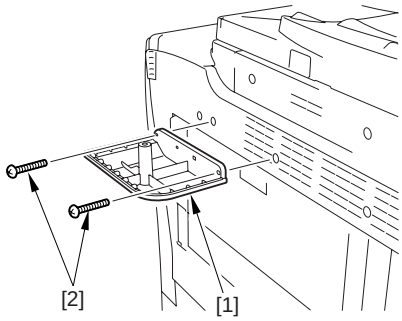
[4] Disconnect the power cable (for the power outlet).



F-1-2

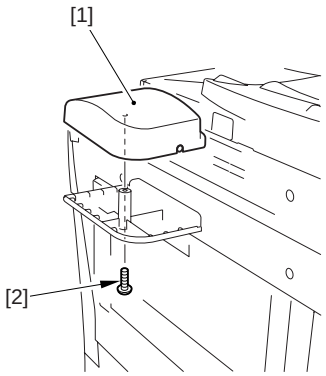
2. Mounting the Speaker Unit

1) Mount the speaker unit lower cover [1] to the machine's right cover using the 2 included screws (M4X40) [2].



F-1-3

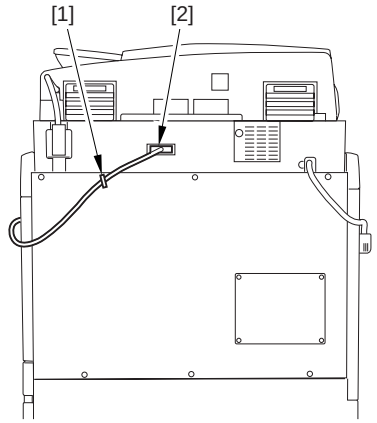
2) Mount the speaker unit upper cover [1] to the speaker unit lower cover you mounted in step 1); then, secure it in place from under using the included screw (M4X6) [2].



F-1-4

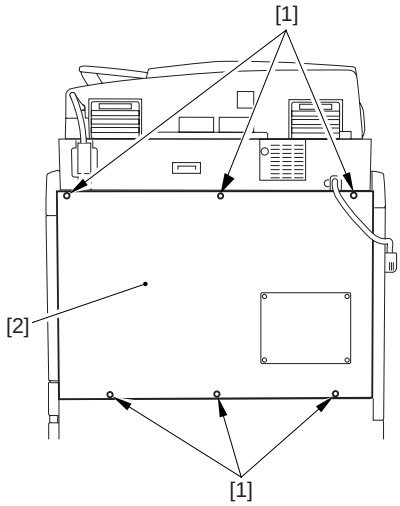
3. Mounting the Voice Guidance Board

1) Open the cable clamp [1], and disconnect the reader communications cable [2].



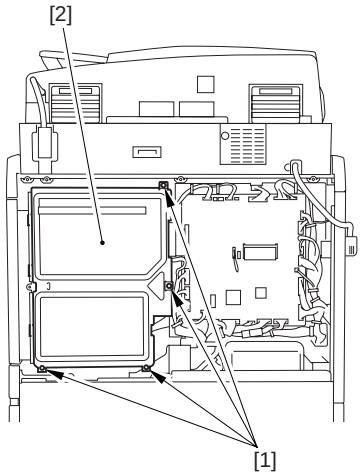
F-1-5

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



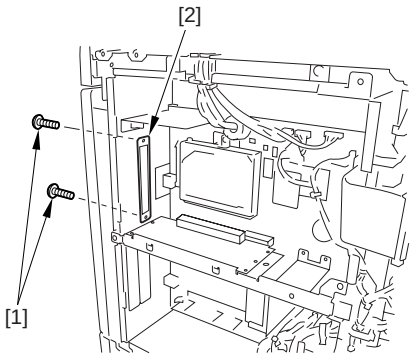
F-1-6

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



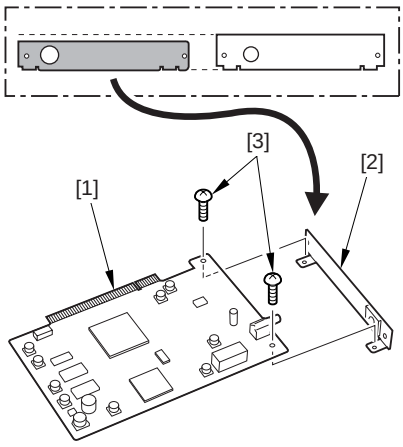
F-1-7

4) Remove the 2 screws [1], and detach the face plate [2].



F-1-8

5) Mount the voice guidance board face plate [2] to the voice guidance board [1] using the 2 included screws (M3X6) [3].



F-1-9

⚠

Checking the Position of the Slide Switch (SW1) on the Voice Guidance Board-A1

The slide switch (SW1) on the Voice Guidance Board-A1 is provided as a means of switching frequencies (33 MHz/66 MHz) to suit the transfer speed of the PCI bus. It is important for the switch setting to suit the transfer speed so that the voice will be free of interruption. If you inadvertently moved the slide, be sure to put it back to its correct position. For the Boad, the frequency must be set to 33 MHz.

6) Mount the voice guidance board [1] to the Expansion Bus-C1, and secure it in place using 2 screws [2].

⚠

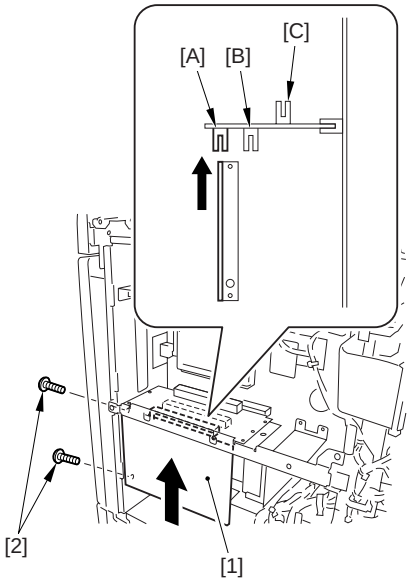
A voice board [1] must be mounted to a specified position.

Be sure to mount it to the slot [A] on the Expansion Bus C-1 board.

Do not mount it to the slot [B] or [C].

⚠

If other board is mounted to the slot [A] , pull the board out of the slot and mount it to other slot. Then, mount a voice board to the slot [A] .

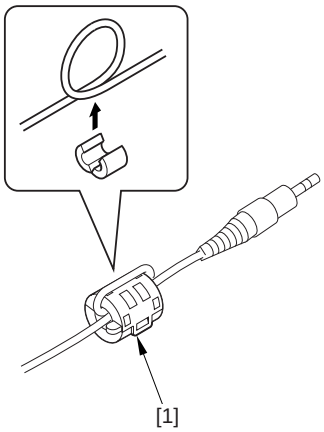


F-1-10

⚠

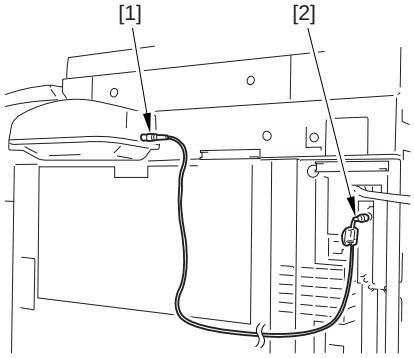
Be sure that the PCB is perpendicular to the connector.

7) Fit the ferrite core [1] to the cable.



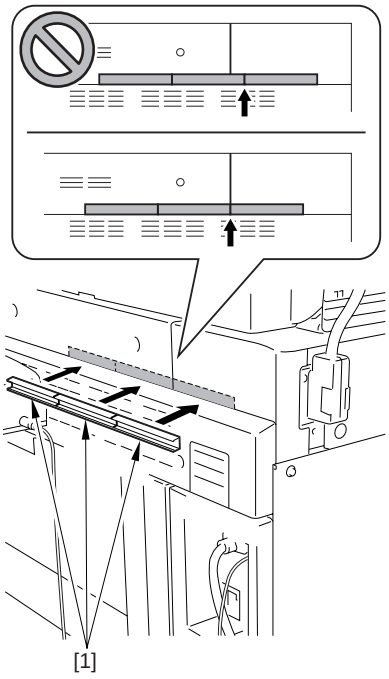
F-1-11

8) Connect the cable to the speaker [1] and the voice guidance board [2].



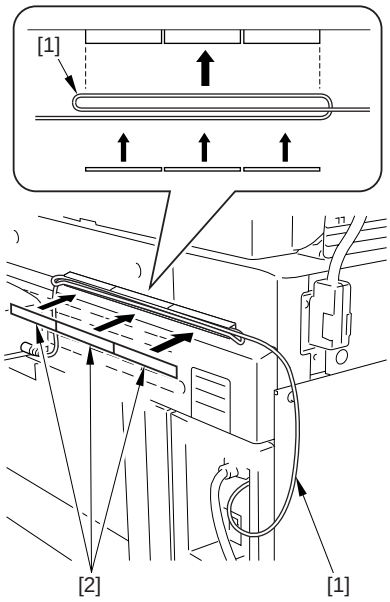
F-1-12

9) Mount the 3 cord guides [1] to the reader unit as shown.



F-1-13

10) Fix the cable [1] in place using the color guide so that it is free of unnecessary slack; then, attach the cord guide cover [2].



F-1-14

⚠

Be sure that the excess around the bend of the cable is 1 cm of the cable guide.

⚠

Take care to avoid biting of the wire when opening and closing the manual feed tray or the right door.

---

11) Mount the main controller box cover using 4 screws.
12) Mount the upper rear cover using 6 screws.
13) Route the reader unit communications cable through the cable clamp, and close the clamp.
14) Connect the reader unit communications cable.
15) Connect the power cable (for the power outlet) of the host machine.

4. Making Settings After Installation

To make use of the Voice Guidance Kit-A2 after turning on the host machine, you need to make the following settings in user mode:

Additional Function> system setting> Voice Guide manegement> Use Voice Guide

1) Select [OK].
2) Press [OK].

default : OFF

- To check that the voice board is recognized by the machine, make the following selections in service mode

service mode

COPIER> DISPLAY> ACC-STS> PCI1

If 'voice board' is indicated for PCI1, the board is correctly recognized by the machine.

5. Checking the Operation

- To Enable

1) Hold down the Reset key 3 sec or more.
2) See that the copy count on the screen is enclosed in red, indicating 'Voice Guidance' is ready for use.

- To Disable

1) Hold down the Reset key for 3 sec or more.

1.3.2 Installation Procedure (iR C3170/2570) 0009-9972

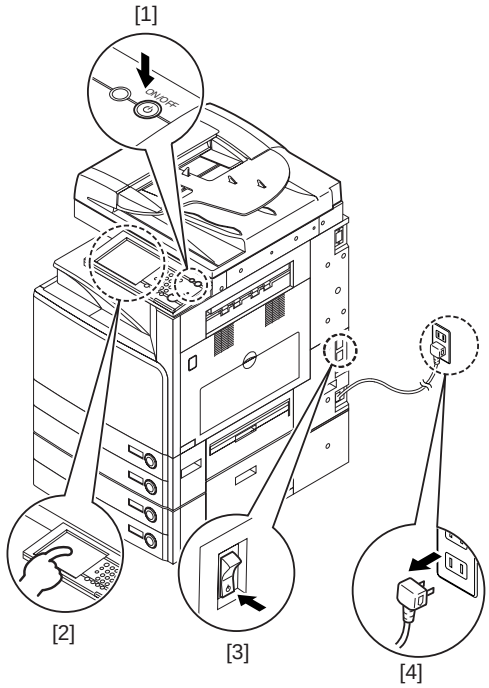
1. Turning Off the Host Machine

⚠

Turning Off the Main Power

When turning off the main power, be sure to go through the following in strict sequence to protect the machine's hard disk:

[1] Hold down on the power switch on the control panel for 3 sec or more.
[2] Operate on the touch panel according to the shutdown sequence indicated so that the main power switch may be turned off.
[3] Turn off the main power switch.
[4] Disconnect the power cable (for the power outlet).



F-1-15

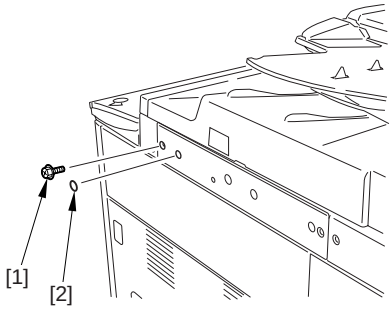
Installation Procedure

2. Mounting the Speaker Unit

1) Remove the screw [1] for the upper right cover, and detach the face cover [2].

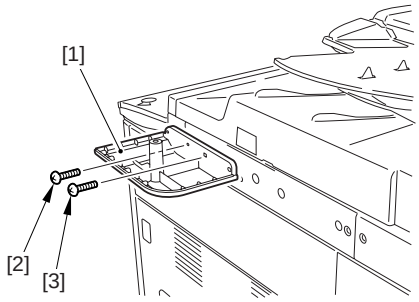
MEMO:

The screw removed will not be reused.



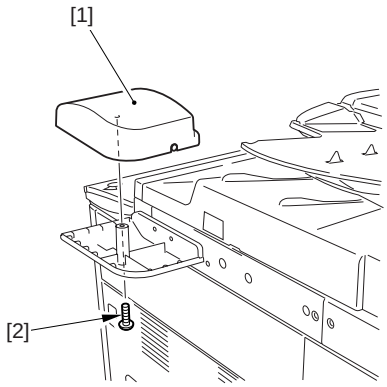
F-1-16

2) Mount the lower cover [1] of the speaker unit to the upper right cover using the screw (M3X16) [2] and screw (M4X16) [3] included in the package.



F-1-17

3) Mount the upper cover [1] of the speaker unit to the lower cover attached in step 2), and fix the upper cover using the included screw (M4x6) [2].



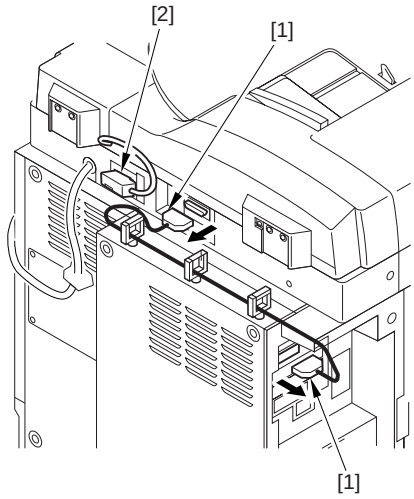
F-1-18

3. Mounting the Voice Guidance Board

1) Disconnect the 2 connectors [1] of the reader communication cable and the DADF cable [2].

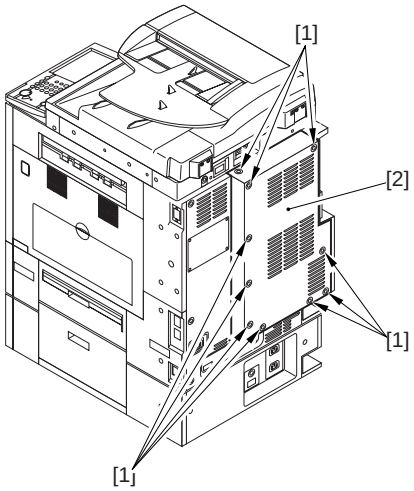
MEMO:

For the model without the DADF, disconnect the 2 connectors [1] of the reader communication cable.



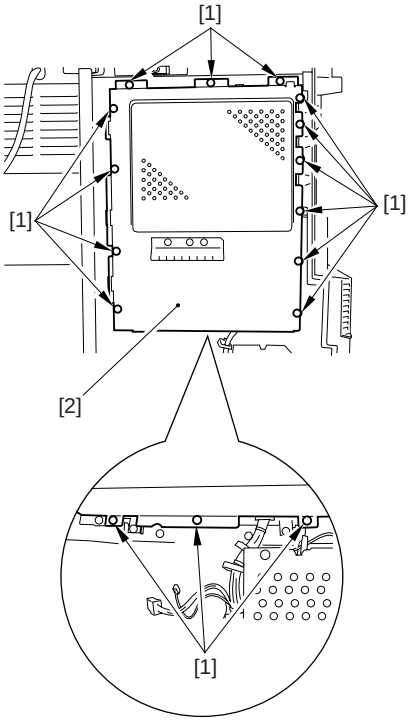
F-1-19

2) Remove the 10 screws [1], and detach the rear right cover [2].



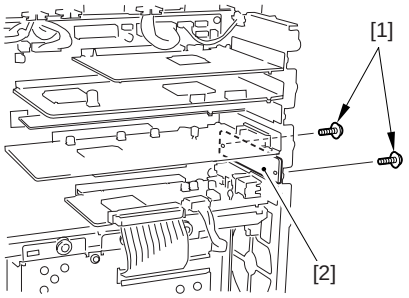
F-1-20

3) Remove the 16 screws [1], and detach the controller box cover [2].



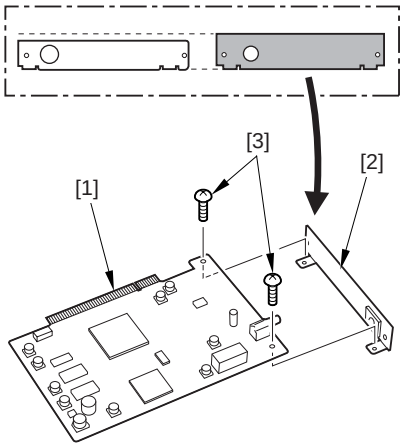
F-1-21

4) Remove the 2 screws [1], and detach the face plate [2].



F-1-22

5) Mount the voice guidance board plate [2] to the voice guidance board [1] using the included 2 screws (M3X6) [3].



F-1-23

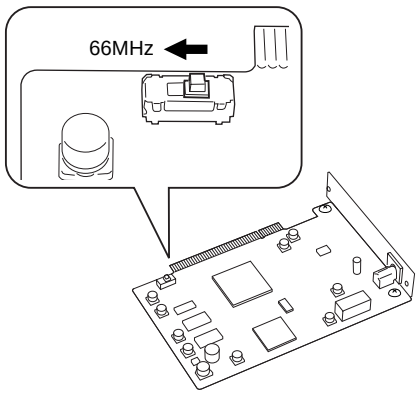
⚠

Checking the slide switch SW1 on the voice guidance board

The slide switch (SW1) on the Voice Guidance Board-A1 is provided as a means of switching frequencies (33 MHz/66 MHz) to suit the transfer speed of the PCI bus. It is important for the switch setting to suit the transfer speed so that the voice will be free of interruption.

For the iR C3170/2570, 66MHz is the correct position of the switch.

Because the factory setting is 33MHz, it is necessary to change the position of the switch for the iR C3170/2570.

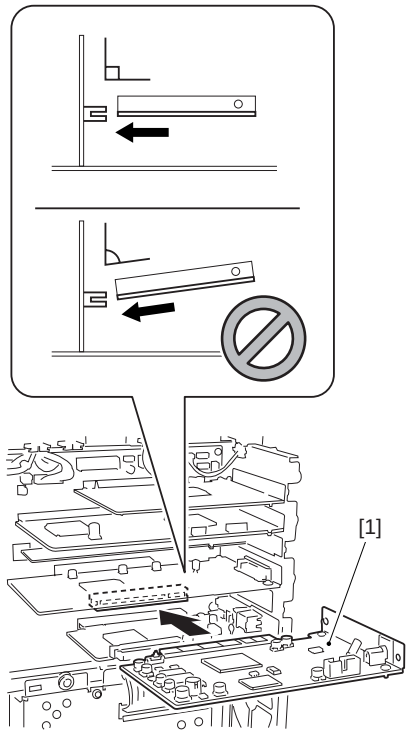


F-1-24

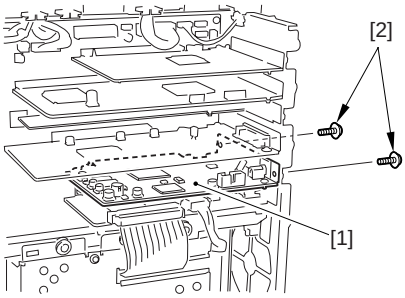
6) Insert the voice guidance board [1], and fix it with the 2 screws [2].

⚠

Be sure that the PCB is perpendicular to the connector.



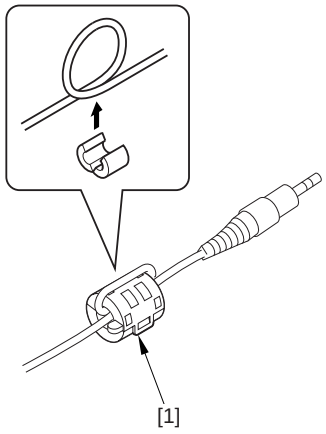
F-1-25



F-1-26

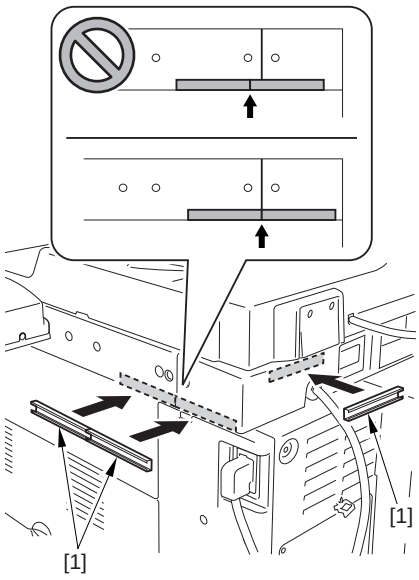
7) Mount the controller box cover and the rear right cover.

8) Mount the ferrite core [1] to the cable.



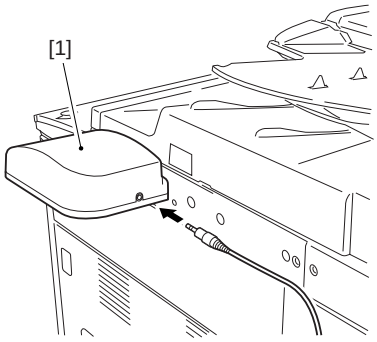
F-1-27

9) Mount the 3 cord guides [1] as shown in the fig. below.

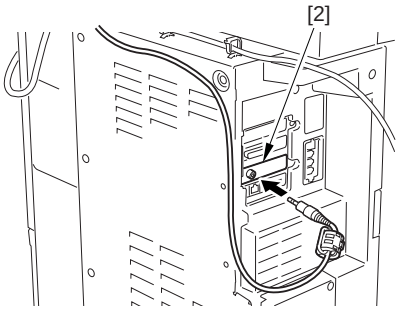


F-1-28

10) Connect the cable to the speaker [1] and the voice guidance board [2].

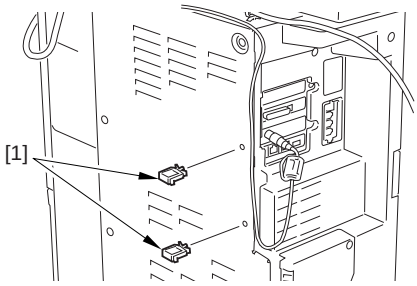


F-1-29



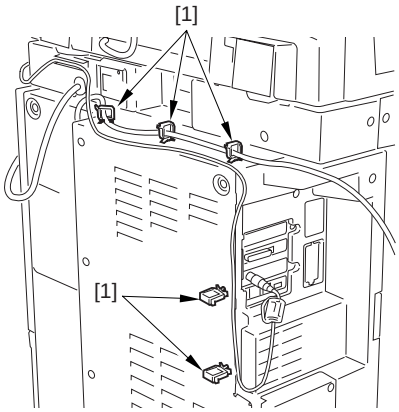
F-1-30

11) Mount the 2 clamps to the rearright cover.



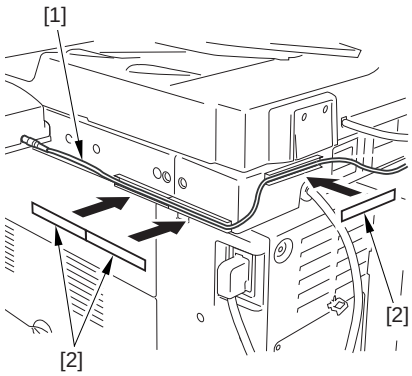
F-1-31

12) Open the 5 clamps [1] at the rear right cover.



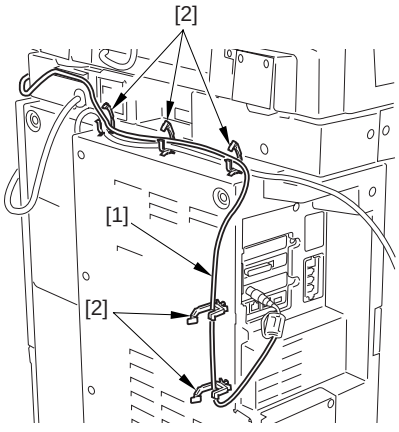
F-1-32

13) Fix the cable [1] in place using the color guide so that it is free of unnecessary slack; then, attach the cord guide cover [2].



F-1-33

14) Close the 5 clamps [2]; making sure the cable [1] is free of excess slack.



F-1-34

15) Connect the reader communication cable, and connect the DADF cable.
16) Turn ON the main power switch.
17) Connect the power cable of the iR machine to a receptacle.

4. Making Settings After Installation

To make use of the Voice Guidance Kit-A2 after turning on the host machine, you need to make the following settings in user mode:

Additional Function> system setting> Voice Guide manegement> Use Voice Guide

1) Select [OK].
2) Press [OK].

default : OFF

- To check that the voice board is recognized by the machine, make the following selections in service mode

service mode

COPIER> DISPLAY> ACC-STS> PCI1

If 'voice board' is indicated for PCI1, the board is correctly recognized by the machine.

5. Checking the Operation

- To Enable

1) Hold down the Reset key 3 sec or more.
2) See that the copy count on the screen is enclosed in red, indicating 'Voice Guidance' is ready for use.

- To Disable

1) Hold down the Reset key for 3 sec or more.

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