

Installation Procedure

Finisher, Sorter, DeliveryTray Finisher-P1

Canon

Application

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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.
 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

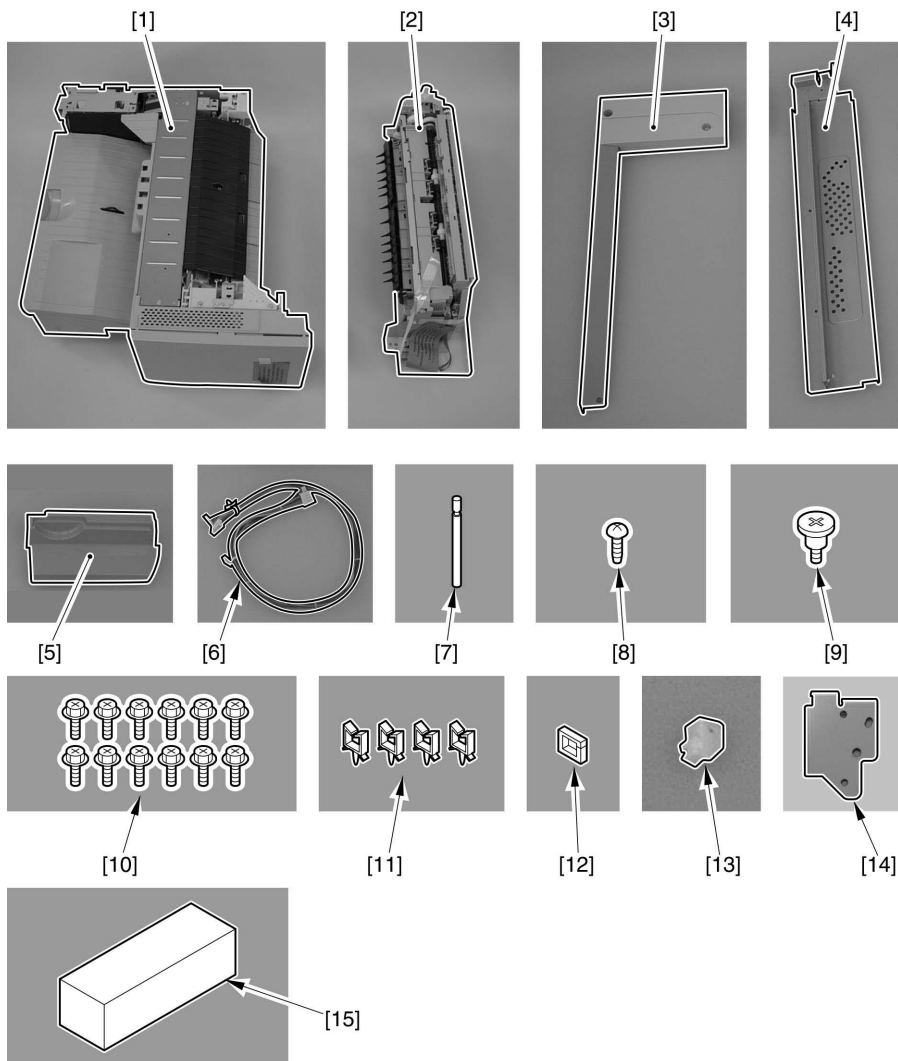
1.1 Unpacking and Chacking the Components

1.1.1 Unpacking and Checking the Contents

0004-3642

! If you are also installing a side paper deck, install the finisher first whenever possible.

Open the shipping box, and check to make sure that none of the following is missing:



F-1-1

T-1-1

[1]	Finisher-P1	1 unit
[2]	Relay delivery unit	1 pc.

[3]	Finisher left cover	1 pc.
[4]	Rail	1 pc.
[5]	Finisher tray front cover	1 pc.
[6]	Communications cable	1 pc.
[7]	Joint pin	1 pc.
[8]	Self-tapping screw	1 pc.
[9]	Stepped screw	1 pc.
[10]	RS tightening screw	12 pc.
[11]	Wire saddle	4 pc.
[12]	Edge saddle	1 pc.
[13]	Slider	1 pc.
[14]	Connecting Sheet Metal	1 pc.
[15]	Staple	1 box

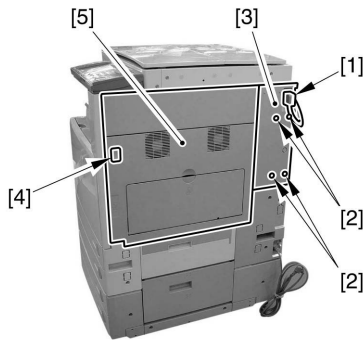
1.2 Installatiopn Procedure

1.2.1 Remove the inside cover and the right door. 0004-3776

1) Disconnect the reader power cable [1], and remove the 4 screws [2]; then, detach the right rear cover [3].

2) Push the button [4] to open the right door [5].

⚠ The right door is opened in preparation for step 9) and its subsequent steps.



F-1-2

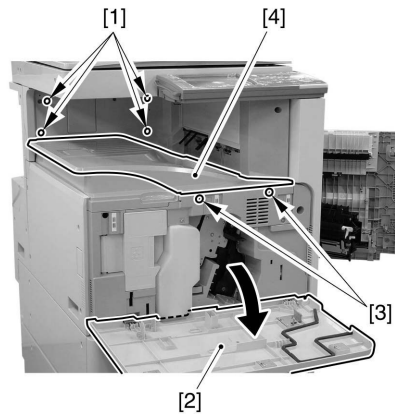
3) Remove the 4 screws [1] of the rear cover. These 4 screws will not be used.

⚠ The reason to remove these 4 screws at this time is that the delivery tray receives the screws if they are dropped by accident at the time of removing.

4) Open the front over [2].

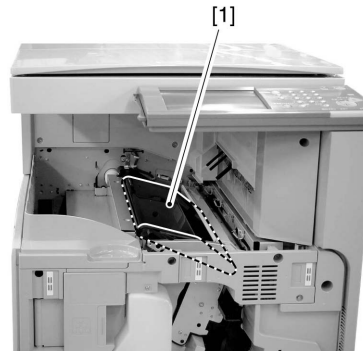
5) Loosen the 2 screws [3], and detach the delivery tray [4].

The removed delivery tray will no longer be used.



F-1-3

⚠ When detaching the delivery tray, be sure to take care so as not to damage the intermediate transfer belt [1].



F-1-4

6) So that the intermediate transfer belt is covered, place paper [1] (1 sheet of A3, or 2 to 3 sheets of A4) on the belt.

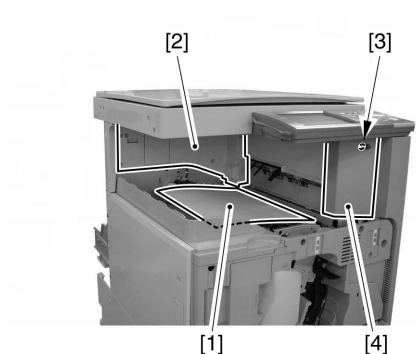
7) Detach the rear cover [2].

The removed rear cover will no longer be used.

8) Remove the screw [3], and detach the support cover [4].

Remove the blanking sheet if it is placed on the screw hole.

The removed screw and the support cover will no longer be used.



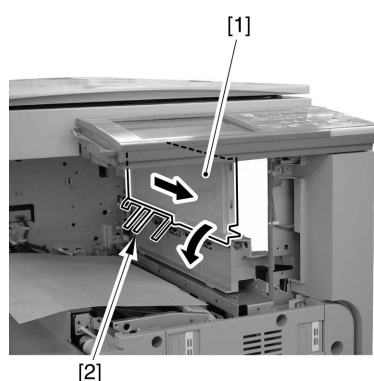
F-1-5

9) Pull the right inside cover [1] toward the front, and shift it to the left to detach.

The removed right inside cover will not be used.

10) Remove the delivery sensor flag [2] of the machine.

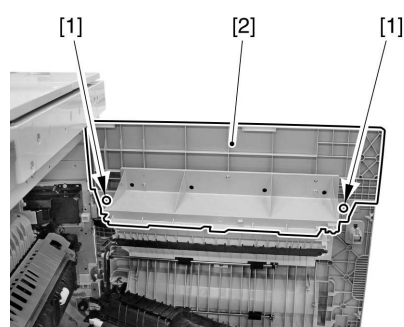
The removed delivery sensor flag will no longer be used.



F-1-6

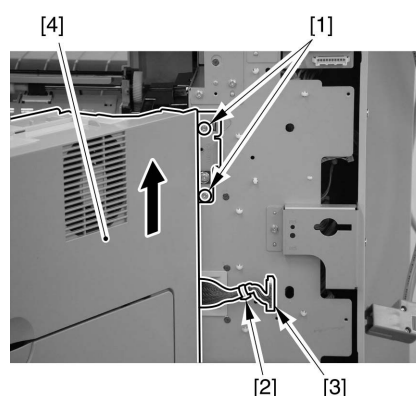
11) Remove the 2 self-tapping screws [1], and detach the right cover [2].

The 2 removed self-tapping screws and the right cover will no longer be used.



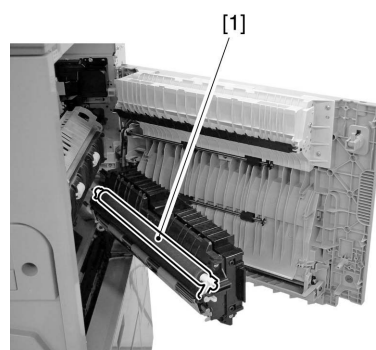
F-1-7

12) Remove the 2 screws [1] and the reusable band [2], and disconnect the connector [3]; then, lift the right door [4] to detach.



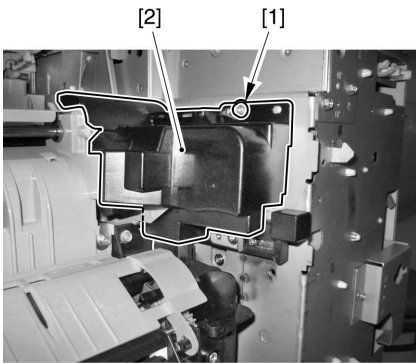
F-1-8

⚠ When detaching the right door, be sure to take care not to touch the secondary transfer external roller [1].



F-1-9

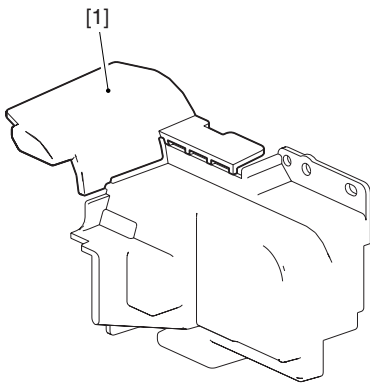
- 13) Remove the screw [1], and detach the fixing connector cover [2].



F-1-10

- 14) Cut the dressing piece [1] of the fixing connector cover using nippers [2].

The removed dressing piece will no longer be used.



F-1-11

- ⚠ Be sure no portion of the dressing piece is left behind on the fixing connector cover.

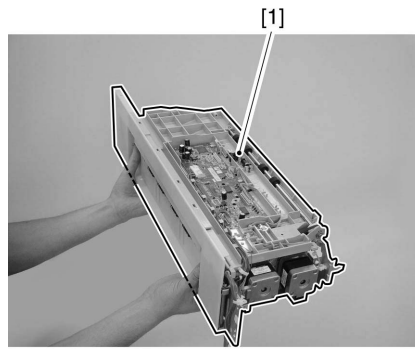
- 15) Fit the fixing connector cover.

1.2.2 Fitting the Relay

Delivery Unit

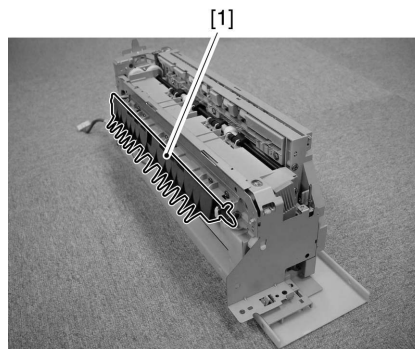
0004-3802

- 1) Take out the relay delivery unit from the plastic bag. Be sure to hold the relay delivery unit [1] as shown in the figure.



F-1-12

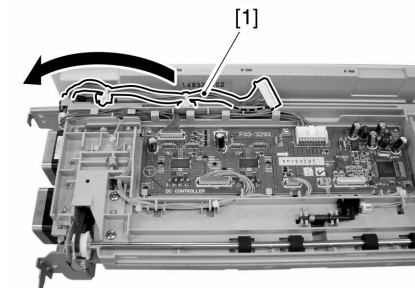
- ⚠ Care should be taken not to break the delivery flapper 1 [1] found at the bottom when holding the relay delivery unit.



F-1-13

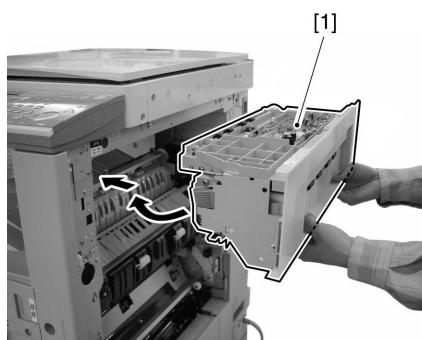
- 2) Remove all packing tape from the relay delivery unit.

- 3) Move the harness [1] to the right side of the relay delivery unit.



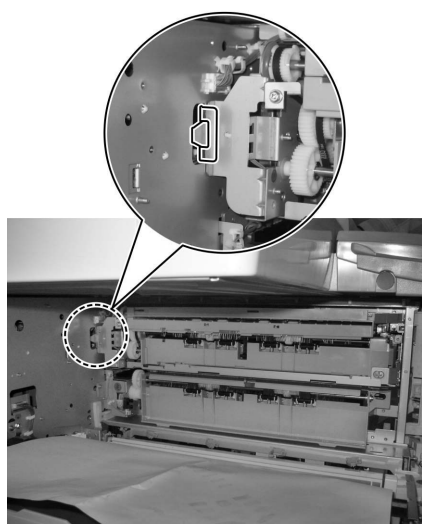
F-1-14

4) Fit the relay delivery unit [1] inside the machine.



F-1-15

⚠ When fitting it into the machine, be sure that the machine inside will look as shown.

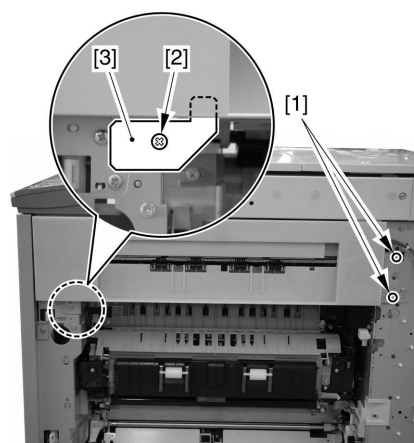


F-1-16

5) Temporary fix the 2 screws included in the package.

6) Remove the screw [2], and detach the sheet metal [3].

The removed screw and sheet metal will not be used.

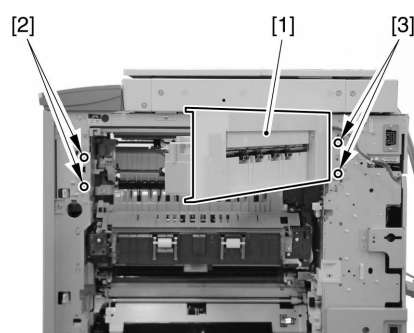


F-1-17

7) Open the relay delivery unit [1], and fix it with the 2 screws [2] included in the package.

8) Tighten the 2 screws [3] temporarily tightened in step 20).

9) Close the relay delivery unit [1].



F-1-18

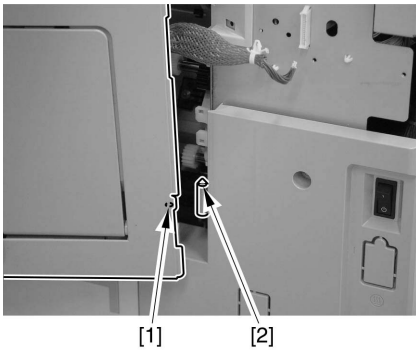
10) Connect the connector [1] to its corresponding connector of the machine.

11) Route the harness [2] through the cable clamp [3], and put the 2 reusable bands [4] through the hole.

1.2.3 Mounting the Covers and the Right Door

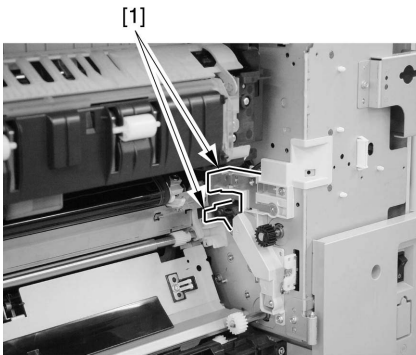
0004-3909

1) Match the hole [1] in the bottom of the right door and the pin [2], and fit the bottom of the right door.



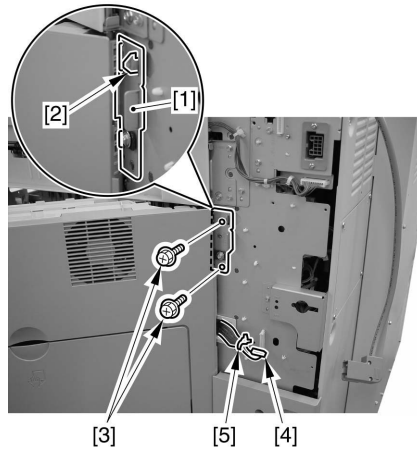
F-1-19

⚠ When fitting it, be sure to take care so as not to break the high-voltage contact [1] of the secondary transfer external roller.



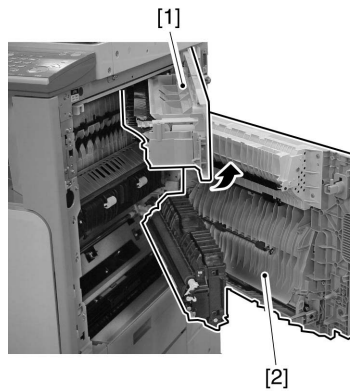
F-1-20

- 2) Match the mounting plate [1] on the top of the right door and the hook [2] of the machine, and fit it in place.
- 3) Using 2 screws [3], secure the mounting plate [1] in place.
- 4) Connect the connector [4], and fit the reusable band [5].



F-1-21

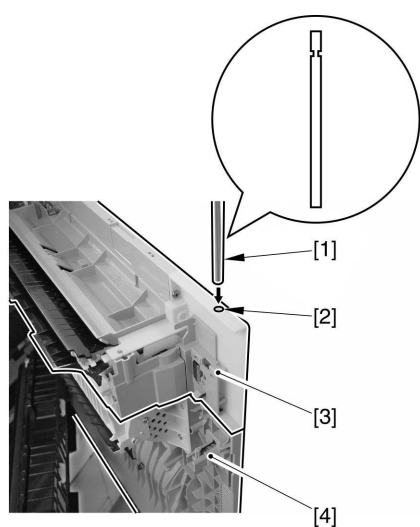
- 5) Open the relay delivery unit [1].
- 6) Lift the relay delivery unit [1], and match it against the right door [2].



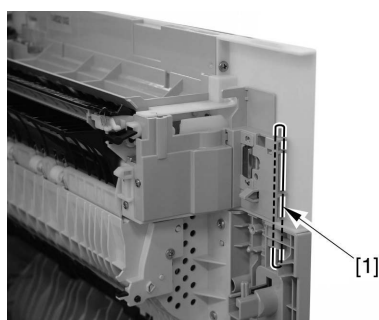
F-1-22

⚠ When matching the position, be sure to take care so that the relay delivery unit will not be displaced higher than its correct position.

- 7) Fit the pin [1] through the hole [2] until it stops; then, connect the right door [4] and the relay delivery unit [3].

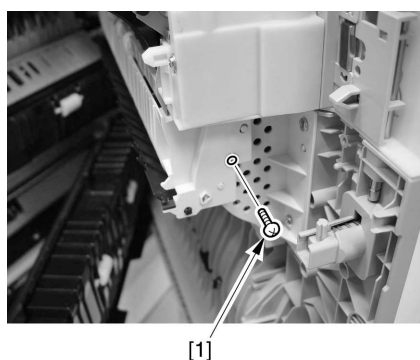


F-1-23



F-1-24

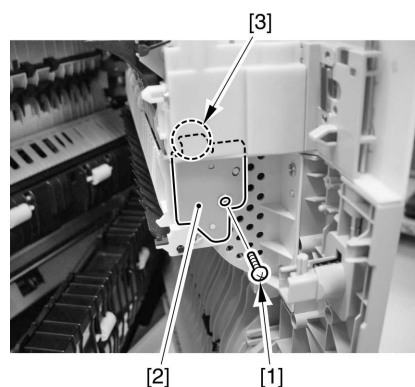
8) Remove the screw [1].



F-1-25

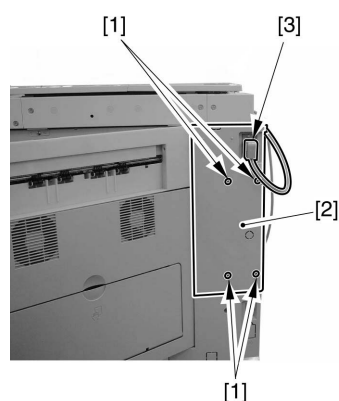
9) Attach the connecting sheet metal [2] with the screw [1] removed at step 8.

⚠ Check to make sure that the projection [3] of the connecting sheet metal is attached to the hole.



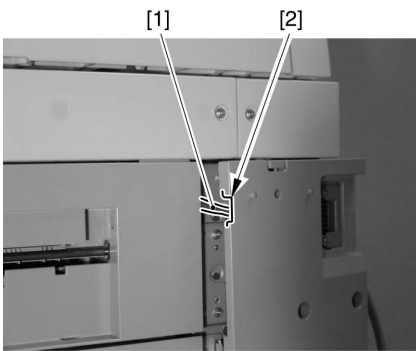
F-1-26

10) Using the 4 screws [1], fit the right rear cover [2]; then, connect the reader power cable [3].

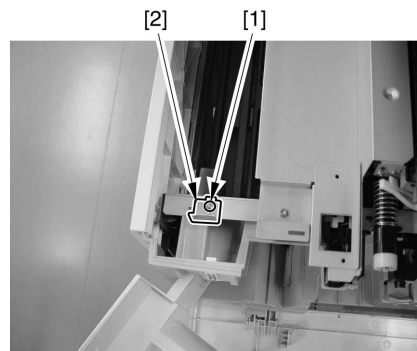


F-1-27

⚠ Take full care not to trap the harness [1] by the cut-off [2] of the right cover (upper right).



F-1-28

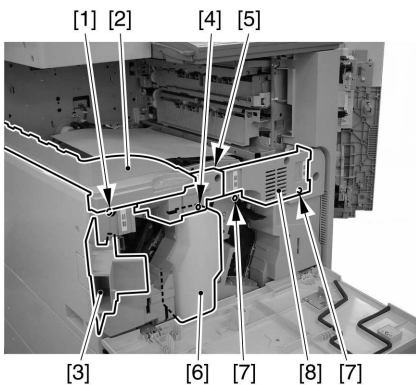


F-1-30

1.2.4 Mounting the Rail and the Guides

0004-3913

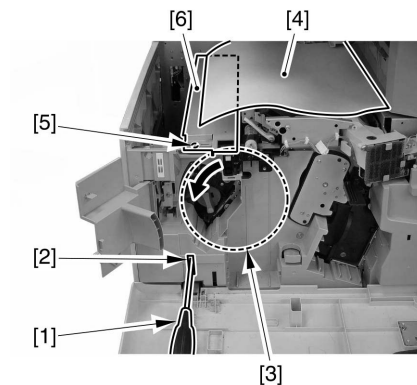
- 1) Remove the screw [1], and detach the delivery tray lower cover [2].
- 2) Open the toner supply cover [3].
- 3) Remove the TP tightening screw [4], and detach the waste toner box cover [5].
- 4) Remove the waste toner box [6].
- 5) Remove the 2 screws [7], and detach the inside cover [8].



F-1-29

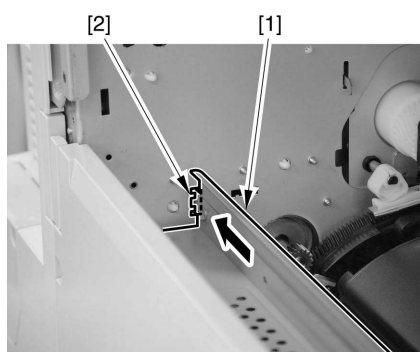
- 6) Remove the screw [1], and detach the fixing [2].
The removed screw and the fixing will no longer be used.

- 7) Insert a screwdriver [1] into the hole [2], and rotate the developing rotary [3] to counterclockwise so that the rotary moves to a replacing position of the cyan toner container.
- 8) Remove the paper [4] from the intermediate transfer belt.
- 9) Remove the screw [5], and detach the guide plate [6].



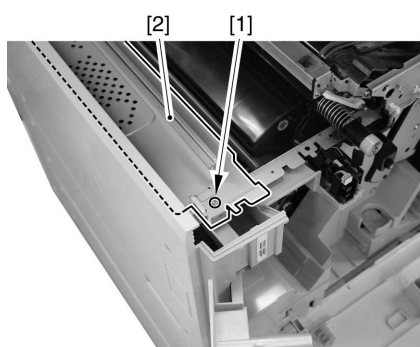
F-1-31

- 10) Fit the included rail [1] into the hole [2] at the rear of the machine.



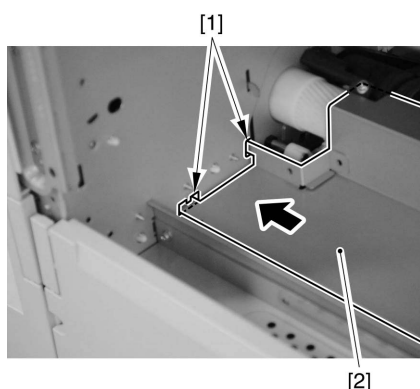
F-1-32

- 11) Attach the rail [2] with the screw [1] included in the package.



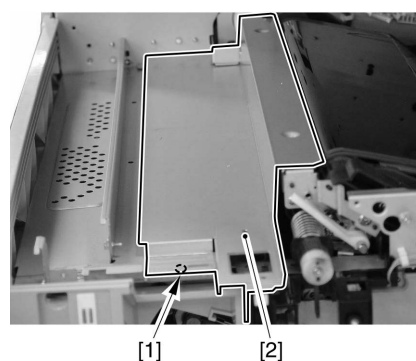
F-1-33

- 12) Mount the guide plate [1] removed in step 9) into the hole [2] of the machine.



F-1-34

- 13) Using a screw [1], mount the guide plate [2].

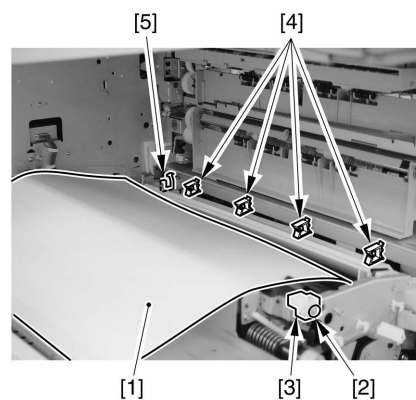


F-1-35

- ⚠ Take care not to damage the intermediate transfer belt.

1.2.5 Mounting the Communication Harness 0004-3916

- 1) So that the intermediate transfer belt is covered, place paper [1] (1 sheet of A3, or 2 to 3 sheets of A4) on the belt.
- 2) Using a screw [2] included in the package, mount the included slider [3] to the machine.
- 3) Fit the 4 wire saddles [4] and the edge saddle [5].

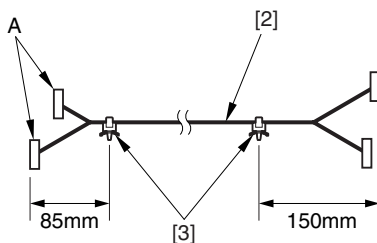


F-1-36

- 4) Connect the 2 connectors [1] of the communications harness to their corresponding connectors on the side plate of the machine.
- 5) Fix the reusable band [3] of the communications

harness [2] in place, and route the communications harness [2] through the edge saddle [4] and the 4 wire saddles [5].

⚠ Attaching direction of the communication cable
The communication harness [2] has the 2 reuse bands [3]. Compare the length from the connectors on the sides to the reuse bands [3], and insert the connectors [A] of the shorter harness to the connecting area on the side plate of the host machine.

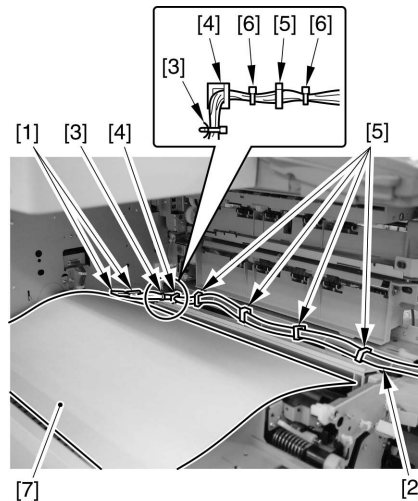


F-1-37

⚠ Points to Note When Fitting the Communications Harness

1. Once you have fixed the reuse band [3] in place, be sure that the following items are in the order indicated in the expanded view of the diagram that follows:
tie-wrap [6], edge saddle [4], and wire saddle [5].
2. Be sure that the foot of the re-use band is firmly in the mounting hole.
3. Be sure that the communications harness is fully away from the gear assembly.

- 6) Remove the paper [7] from the intermediate transfer belt.

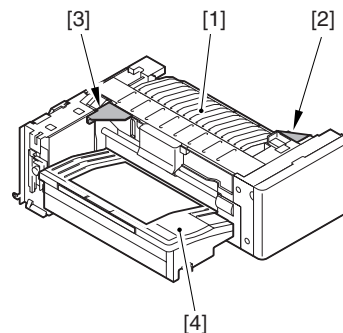


F-1-38

1.2.6 Installing the Finisher 0004-3917

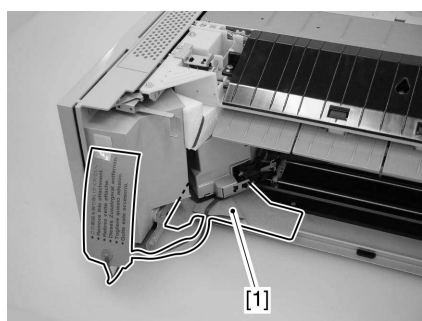
- 1) Take the finisher [1] out of its shipping box.
Grips are found as follows: for the right hand, [2]; for the left hand [3].

⚠ Do not hold it by its tray area [4].



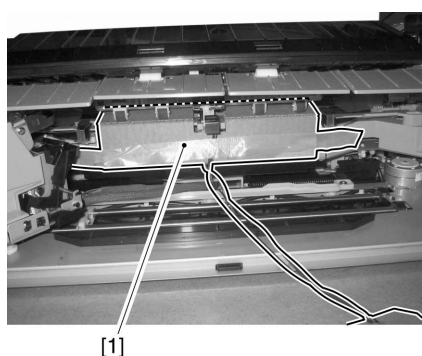
F-1-39

- 2) Remove the packing material [1].



F-1-40

3) Remove the packing material [1].

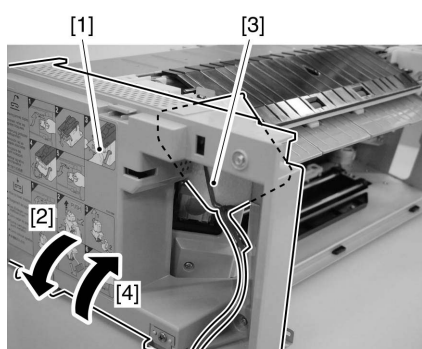


F-1-41

4) Open [2] the finisher front cover [1].

5) Remove the packing material [3].

6) Close [4] the finisher front cover [1].



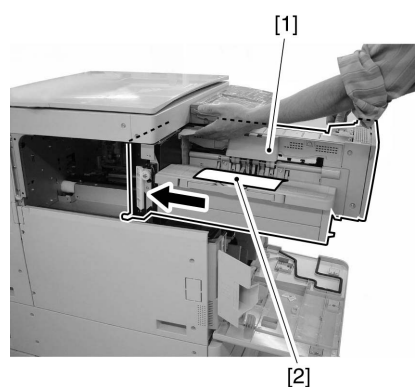
F-1-42

7) Slide in the finisher [1] into the machine while keeping it level .

Thereafter, be sure to remove the instructions sheet [2].

⚠ Be sure to keep the right door of the machine open when sliding in the finisher.

Otherwise, you will not be able to fit in the finisher.



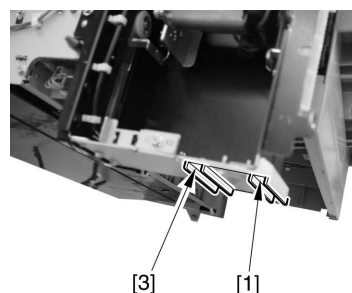
F-1-43

Take note of the following when fitting the finisher:

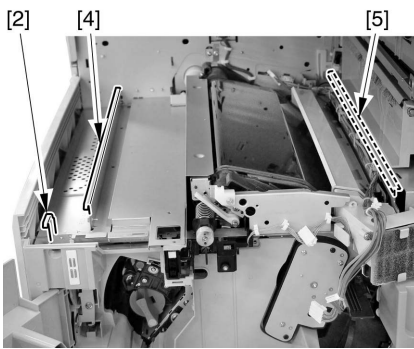
-Be sure to match the lower left [1] of the finisher and the rail assembly [2].

-Be sure to match the lower left [3] of the finisher and the rail assembly [4] of the machine.

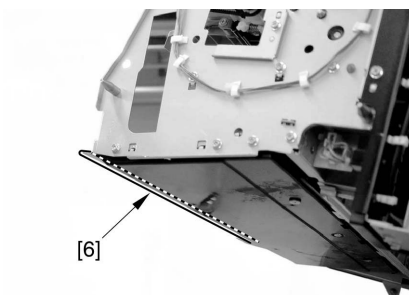
-Be sure to match the lower right [5] of the finisher as if to place it on top of the machine inside edge [6].



F-1-44

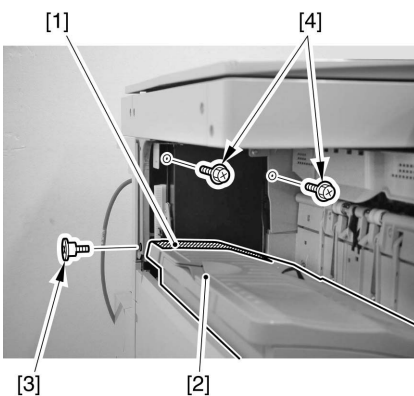


F-1-45

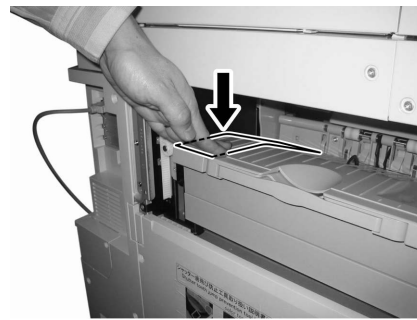


F-1-46

- 8) Push the area [1] indicated in Figure to lower the tray [2].
- 9) Then, tighten the stepped screws [3] (using a long screwdriver if possible) and the 2 screws [4].



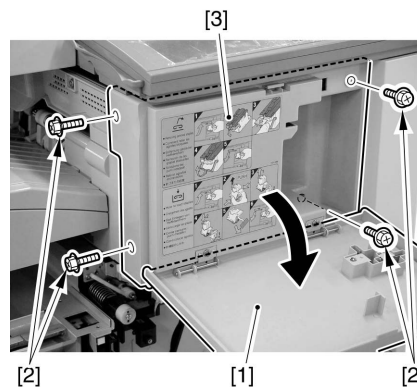
F-1-47



F-1-48

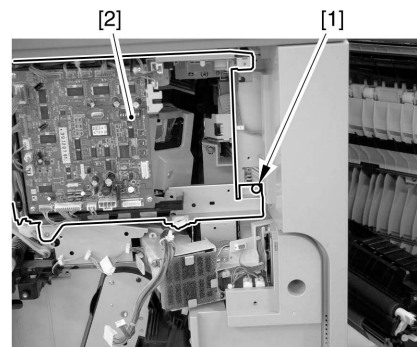
1.2.7 Connecting the Communication Harness 0004-3922

- 1) Open the finisher front cover [1].
- 2) Remove the 4 screws [2], and detach the finisher front cover [3].



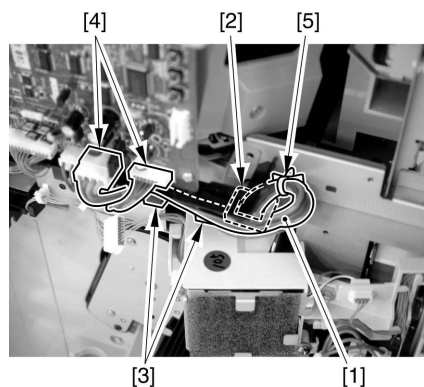
F-1-49

- 3) Using a screw [1], secure the finisher [2] in place of the machine.



F-1-50

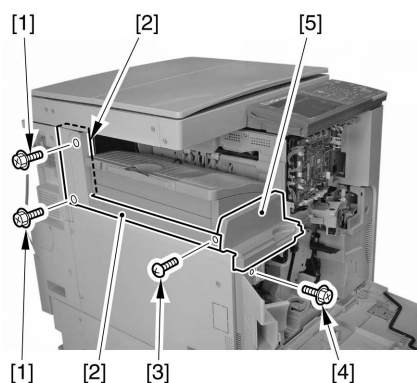
- 4) Fix the communication harness [1] with the wire saddle [2] of the finisher, and pass the cable through the wire saddle [3].
- 5) Connect the 2 connectors [4] of the communications harness.
- 6) Fix the reusable band [5] in place.



F-1-51

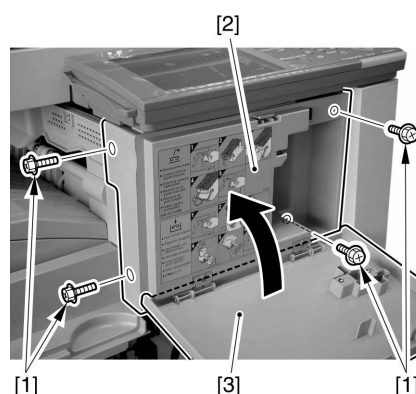
1.2.8 Mounting the Covers 0004-3923

- 1) Using 2 screws [1], mount the finisher left cover [2].
- 2) Attach the front cover [5] of the finisher tray with the self-tapping screw [3] included in the package and the screw [4].



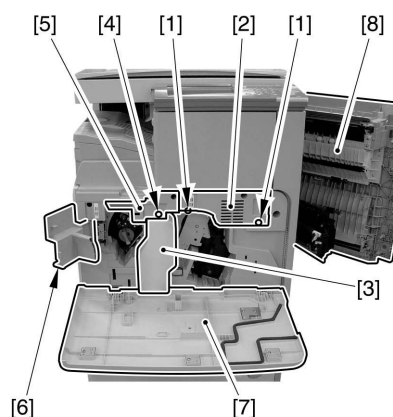
F-1-52

- 3) Using 4 screws [1], mount the finisher front cover [2].
- 4) Close the finisher front cover [3].



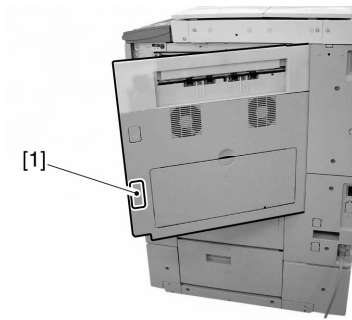
F-1-53

- 5) Using 2 screws [1], mount the inside cover [2].
- 6) Fit the waste toner box [3].
- 7) Using a TP tightening screw [4], mount the waste toner box cover [5].
- 8) Close the toner supply cover [6].
- 9) Close the front cover [7].
- 10) Close the right door [8].



F-1-54

⚠ When closing the right door, be sure to push the area [1] indicated in the figure.



F-1-55

1.3 Checking the Operation

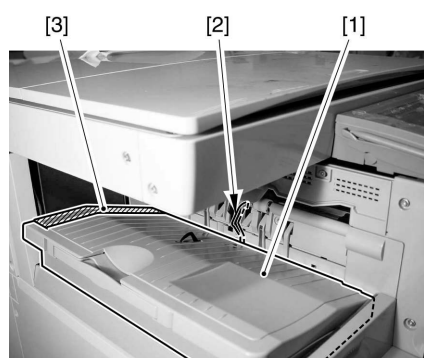
1.3.1 Checking the Operation

0004-3924

⚠ Be sure to check the following before turning on the host machine.

-The delivery tray [1] does not touch the sensor flag [2]. E540 may occur if they come into contact.

-Push the diagonally shaded area [3] when holding down the delivery tray.



F-1-56

1) Connect the power supply cable to the power outlet.

2) Turn on the main power switch.

3) Check to see that the control panel menu shows the addition of the menu for the finisher.

This is the end of the work of installing the Finisher-P1.

⚠ If you install the Copy Tray-J1 now, the following service mode can be set to 1.

COPIER>OPTION>ACC>OUT-TRAY

Nov 13 2003

