

Service Manual

Finisher, Sorter, DeliveryTray Inner 2 Way Tray-C1

Canon

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.

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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 Specifications

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1.1 Product Specifications

1.1.1 Specifications

0001-6176

T-1-1

Item	Description
Number of bins	3
	No. 1 delivery slot: inside delivery tray of host machine No. 2 delivery slot: 1 bin No. 3 delivery slot: outside (optional)
Stacking orientation	face-down
Paper type	plain paper (64 to 105 g/m ²) heavy paper (106 to 163 g/m ²) recycled paper (64 to 80 g/m ²) postcard (gymn postcard, 2-pane postcard, 4-pane postcard) envelope (YOKEI No. 4, COM10, Monarch, DL, ISO-B5, ISO-C5) label sheet, transparency, tracing paper
Paper size	SRA3 (320×450 mm) / 12"×18" (305×457 mm) to A5/STMT
Power supply	no (from host machine's accessories power supply; 24 VDC)
Dimensions	176 mm×546 mm×151 mm (W×D×H)
Weight	3.9 kg

- Number of Sheets in a Stack

1) A4, B5, A5R

T-1-2

		No. 1 delivery slot	No. 2 delivery slot	No. 3 delivery slot
Plain paper	64 g/m ²	250 sheets	100 sheets	150 sheets
	80 g/m ²	250 sheets	100 sheets	150 sheets
	105 g/m ²	190 sheets	75 sheets	110 sheets

		No. 1 delivery slot	No. 2 delivery slot	No. 3 delivery slot
Heavy paper	163 g/m2	120 sheets	45 sheets	-
Special paper	label sheet	50 sheets	20 sheets	-
	transparency	50 sheets	20 sheets	-
	envelope	10 sheets	4 sheets	-
	tracing paper	50 sheets	20 sheets	-
	postcard	50 sheets	20 sheets	-

2) SRA3, 12X18, A3, B4, A4R, B5R

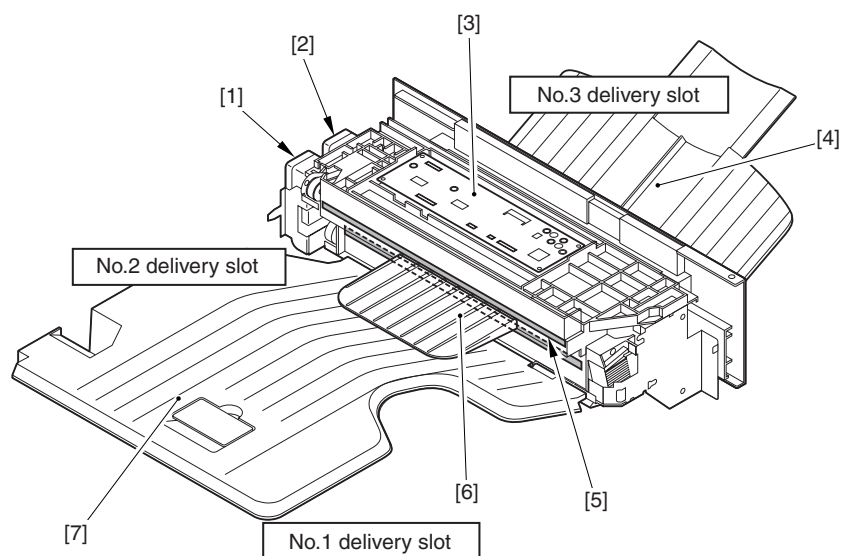
T-1-3

		No. 1 delivery slot	No. 2 delivery slot	No. 3 delivery slot
Plain paper	64 g/m2	100 sheets	50 sheets	75 sheets
	80 g/m2	100 sheets	50 sheets	75 sheets
	105 g/m2	95 sheets	35 sheets	55 sheets
Heavy paper	163 g/m2	60 sheets	20 sheets	-
Special paper	label sheet	-	-	-
	transparency	-	-	-
	envelope	-	-	-
	tracing paper	25 sheets	10 sheets	-
	postcard	-	-	-

1.2 Names of Parts

1.2.1 External View

0001-1057

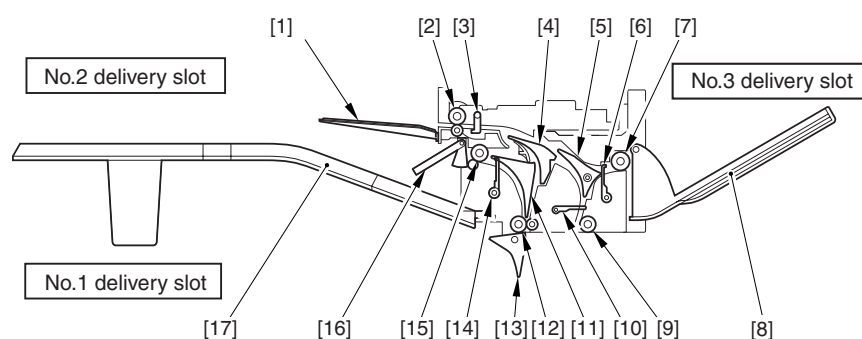


F-1-1

- [1] No. 2 delivery motor
- [2] No. 3 delivery motor
- [3] Inner 2-way tray controller PCB
- [4] No. 3 delivery tray (optional; Copy Tray-J1)
- [5] Reversing slot
- [6] Reversing guide
- [7] No. 2 delivery tray

1.2.2 Cross Section

0001-1080



F-1-2

- [1] Reversing guide

- [2] Reversing roller
- [3] Reversal sensor
- [4] Duplex flapper
- [5] No. 3 delivery flapper
- [6] No. 3 delivery sensor
- [7] No. 3 delivery roller
- [8] No. 3 delivery tray (optional; Copy Tray-J1)
- [9] duplexing inlet roller
- [10] duplexing inlet sensor
- [11] No. 2 delivery flapper
- [12] No. 2 delivery inlet roller
- [13] No. 1 delivery flapper
- [14] No. 2 delivery sensor
- [15] No. 2 delivery roller
- [16] No. 2 delivery tray full sensor
- [17] No. 2 delivery tray

Chapter 2 Functions

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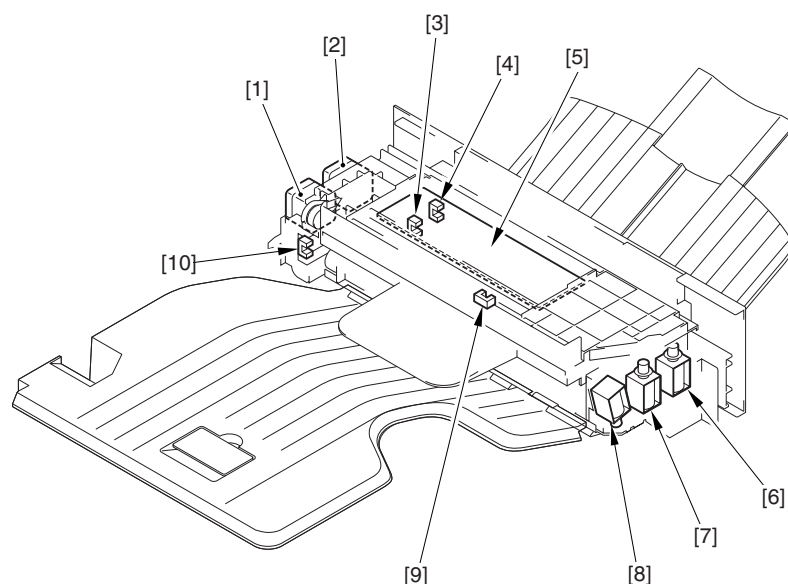
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2.1 Basic Construction

2.1.1 Basic Construction

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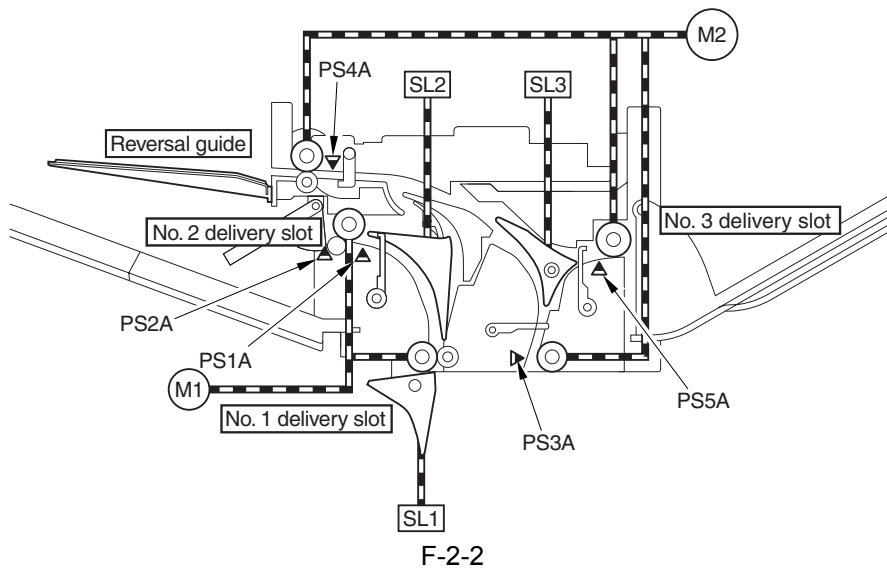
The inner 2-way tray consists of the following major components:



F-2-1

- [1] No. 2 delivery motor
- [2] No. 3 delivery motor
- [3] Duplex inlet sensor
- [4] No. 3 delivery sensor
- [5] Inner 2-way tray controller PCB
- [6] No. 3 delivery solenoid
- [7] Duplex delivery solenoid
- [8] No. 1 delivery solenoid
- [9] No. 2 delivery sensor
- [10] No. 2 delivery tray full sensor

The following is a diagram of the drive system of the inner 2-way tray:



T-2-1

Notation	Name
M1	No. 2 delivery motor
M2	No. 3 delivery motor
PS1A	No. 2 delivery sensor
PS2A	No. 2 delivery tray full sensor
PS3A	Duplex inlet sensor
PS4A	Reversal sensor
PS5A	No. 3 delivery sensor
SL1	No. 1 delivery solenoid
SL2	No. 2 delivery solenoid
SL3	No. 3 delivery solenoid

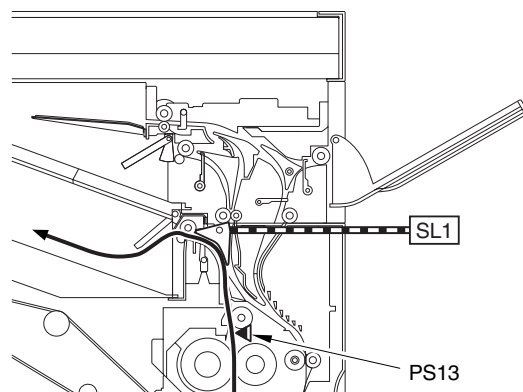
2.2 Basic Operation

2.2.1 Delivery to the No. 1 Delivery Slot

0001-1087

The machine delivers paper to its No. 1 delivery slot as follows:

- 1) Paper arrives from the host machine. A specific period of time after the leading edge of the paper reaches the fixing outlet sensor (PS13), the No. 1 delivery solenoid (SL1) goes on to prompt delivery to the No. 1 delivery tray.



F-2-3

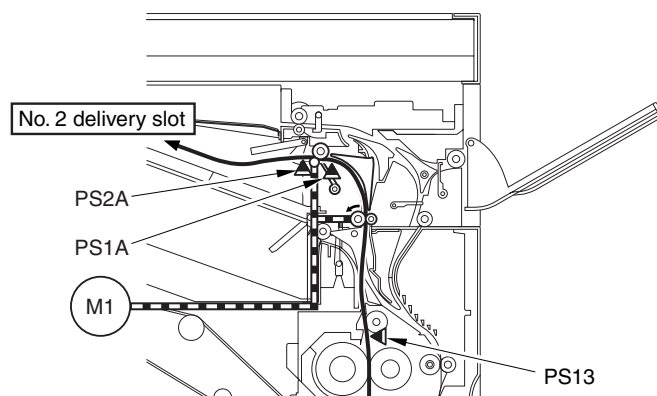
F-2-4

2.2.2 Delivery to the No. 2 Delivery Slot

0001-1088

The machine delivers paper to its No. 2 delivery slot as follows:

- 1) Paper arrives from the host machine. A specific period of time after the leading edge of the paper reaches the fixing outlet sensor (PS13), the No. 2 delivery motor (M1) starts to rotate; then, the paper moves past the No. 2 delivery sensor (PS1A) and the No. 2 delivery tray full sensor (PS2A) to reach the No. 2 delivery tray.



F-2-5

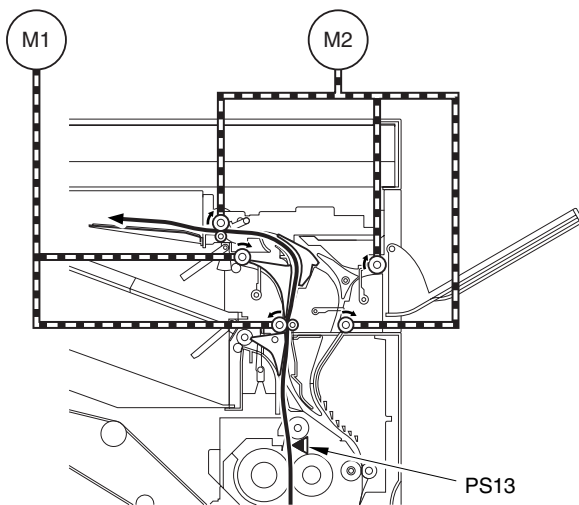
F-2-6

2.2.3 Delivery to the No. 3 Delivery Slot

0001-1092

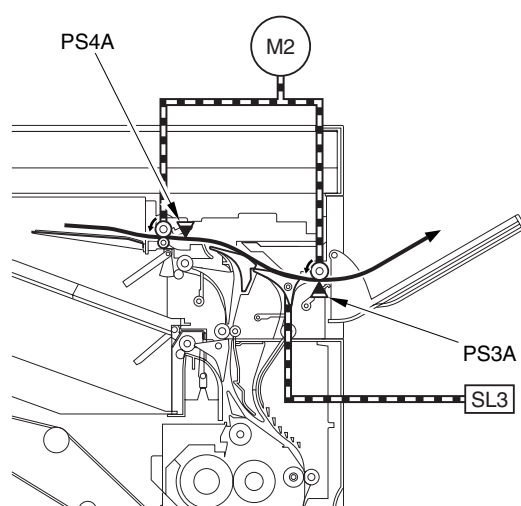
The machine delivers paper to the No. 3 delivery slot as follows:

- 1) Paper arrives from the host machine. A specific period of time after the leading edge of the paper reaches the fixing outlet sensor (PS13), the No. 2 delivery motor (M1) and the No. 3 delivery motor (M2) start to rotate.



F-2-7

- 2) When the paper has moved past the reversal sensor (PS4A) and its trailing edge reaches a specific point in relation to the reversing roller, the No. 3 delivery motor (M2) stops once; thereafter, it starts to rotate in reverse after a specific period of time. At the same time, the No. 3 delivery motor (M2) goes on, and the paper moves past the No. 3 delivery sensor (PS5A) to reach the No. 3 delivery slot.



F-2-8

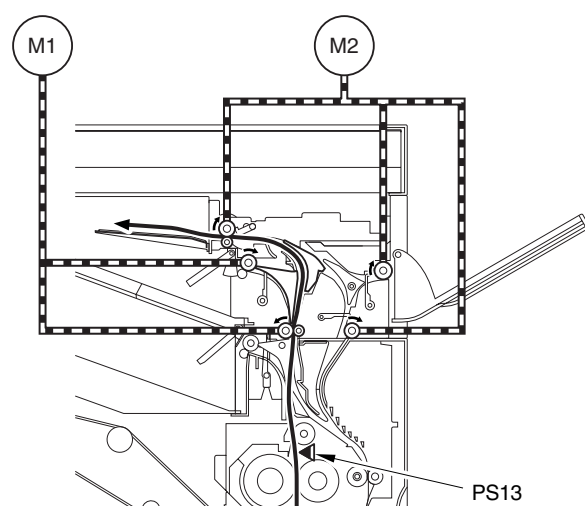
F-2-9

2.2.4 Moving Paper for a Double-Sided Copy

0001-1093

The machine moves paper as follows when making a double-sided copy (print):

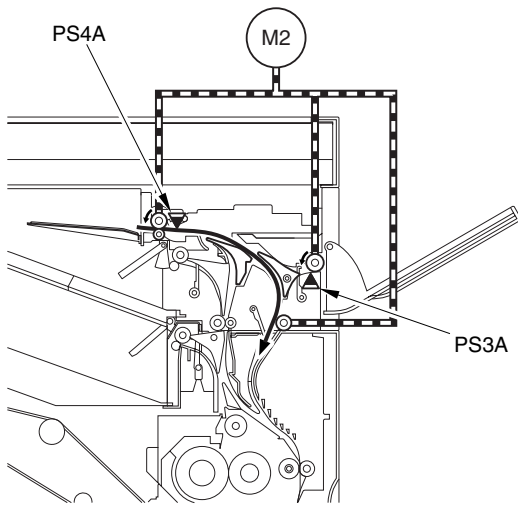
- 1) Paper arrives from the host machine. A specific period of time after the leading edge of the paper reaches the fixing outlet sensor (PS13), the No. 2 delivery motor (M1) and the No. 3 delivery motor (M2) start to rotate.



F-2-10

- 2) When the paper has moved past the reversal sensor (PS4A) and its trailing edge reaches a specific point in relation to the reversing roller, the No. 3 delivery motor (M2) stops once; thereafter, it starts to rotate in reverse after a

specific period of time. The paper is then moved to the duplex inlet assembly.



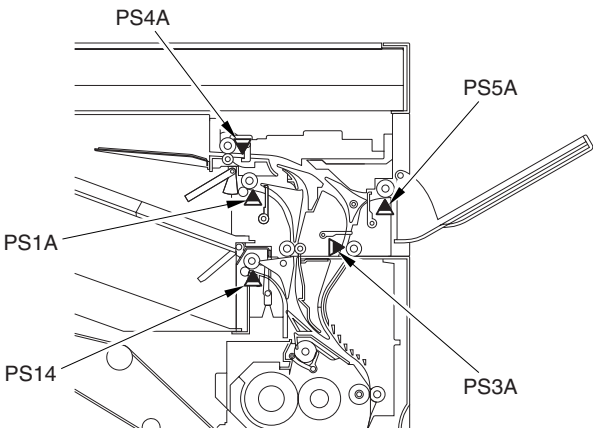
F-2-11

2.3 Detecting Jams

2.3.1 Arrangement of the Sensors

0001-1098

The following shows the arrangement of sensors used to check for jams in the inner 2-way tray.



F-2-12

2.3.2 Delay Jam

0001-1101

The machine will identify a delay if any of the following sensors does not go on within a specific period of time:

T-2-2

Notation	Name
PS14	No. 1 delivery sensor (host machine)
PS1A	No. 2 delivery sensor
PS3A	duplex inlet sensor
PS4A	reversal sensor
PS5A	No. 3 delivery sensor

2.3.3 Stationary Jam

0001-1104

The machine will identify a jam if any of the following sensors does not go off within a specific period of time after it has gone on:

T-2-3

Notation	Name
PS14	No. 1 delivery sensor (host machine)
PS1A	No. 2 delivery sensor
PS3A	duplex inlet sensor
PS4A	reversal sensor
PS5A	No. 3 delivery sensor

2.3.4 Stationary Jam at Power-On/Cover Open Jam

0001-1105

The machine is designed to check for the presence of paper over individual sensors, and it will identify a jam if it finds paper. The machine uses the following sensors to identify a stationary jam at time of power-on and a cover open jam:

T-2-4

Notation	Name
PS14	No. 1 delivery sensor (host machine)
PS1A	No. 2 delivery sensor
PS3A	duplex inlet sensor
PS4A	reversal sensor
PS5A	No. 3 delivery sensor

Chapter 3 Installation

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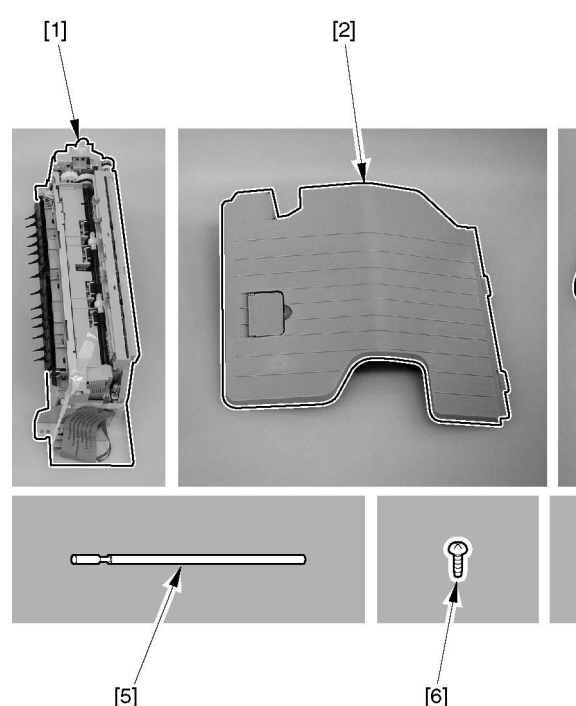
3.1 Unpacking and Installation

3.1.1 Unpacking and Checking the Components

3.1.1.1 Unpacking and Checking the Components 0004-4036

▲If you are planning to install a side paper deck at the same time, install the inner 2-way first whenever possible.

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



F-3-1

T-3-1

[1]	Inner 2-way tray	1 unit
[2]	Inside delivery tray	1 pc.

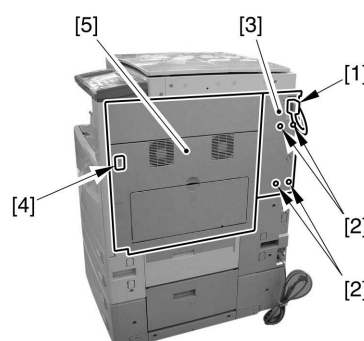
[3]	Reversing guide	1 pc.
[4]	Inside upper cover	1 pc.
[5]	Joint pin	1 pc.
[6]	Self-tapping screw	1 pc.
[7]	RS tightening screw	4 pc.
[8]	Connecting Sheet Metal	1 pc.

3.1.2 Installation Procedure

3.1.2.1 Removing Covers and the Right Door 0004-4110

- 1) Disconnect the reader power cable [1]; then, remove the 4 screws [2], and detach the right rear cover [3].
- 2) Push the button [4], and open the right door [5].

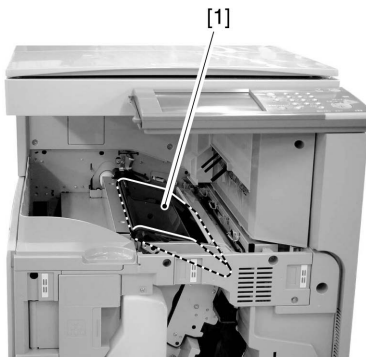
▲The right door is opened to prepare for the work that starts in step 7).



F-3-2

- 3) Open the front cover [1].
- 4) Loosen the 2 screws [2], and detach the delivery tray [3].

▲When detaching the delivery tray, take care not to damage the intermediate transfer belt [1].

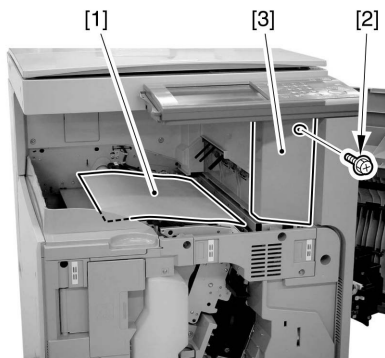


F-3-3

5) Place paper [1] (1 sheet for A3; or 2 to 3 sheets of A4) on the intermediate transfer belt to cover the belt.

6) Remove the screw [2], and detach the support cover [3].

Remove the blanking sheet if it is placed on the screw hole. The sheet will be reused.

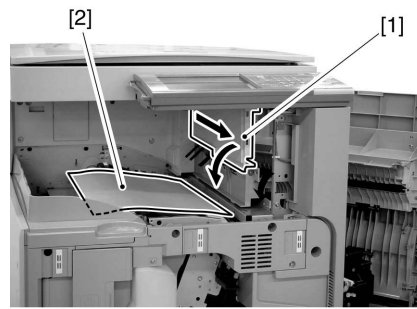


F-3-4

7) Shift down the inside right cover [1] to the left to detach.

The removed inside right cover will no longer be used.

8) Detach the paper [2] from the intermediate transfer belt.



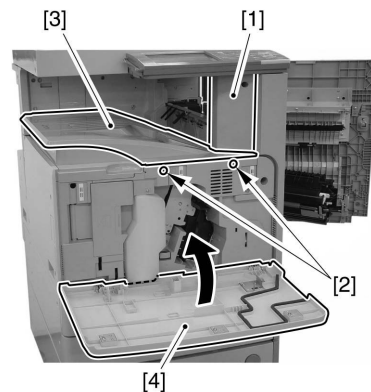
F-3-5

9) Mount the support cover [1].

⚠ Here, do not tighten the screw. Leave it as it is until step 13) of 'Mounting the Covers and Right Door.'

10) Using 2 screws [2], mount the delivery tray [3].

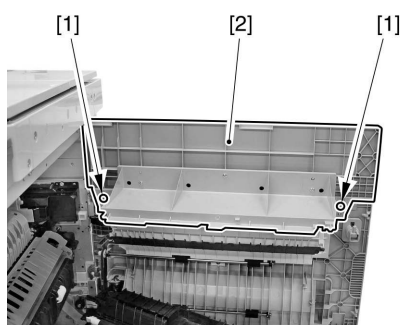
11) Close the front cover [4].



F-3-6

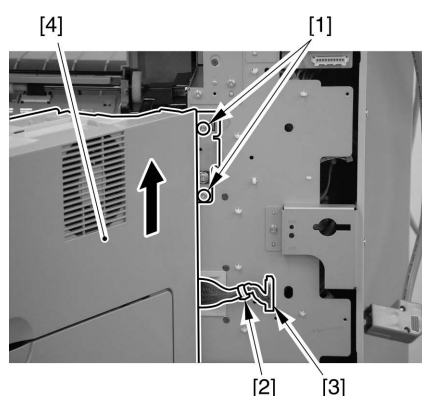
12) Remove the 2 self-tapping screws [1], and detach the right cover [2].

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



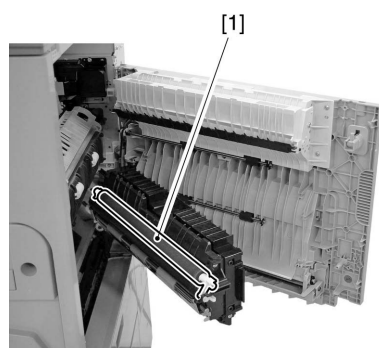
F-3-7

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



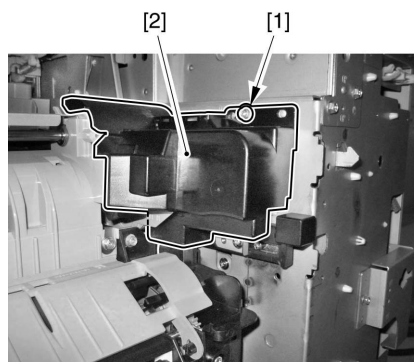
F-3-8

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



F-3-9

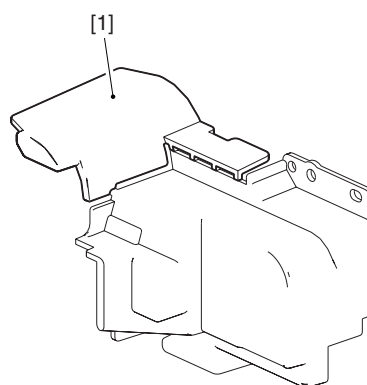
14) Remove the screw [1], and detach the fixing connector cover [2].



F-3-10

15) Cut off the dressing area [1] of the fixing connector cover using nippers [2].

The removed dressing area will no longer be used.



F-3-11

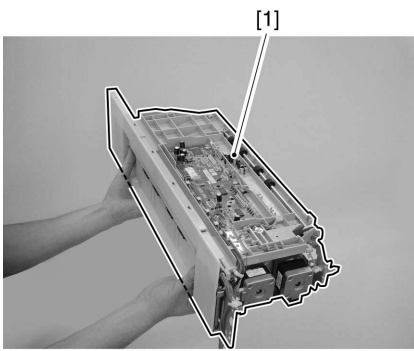
⚠ Be sure no piece of the dressing area remains on the fixing connector cover.

16) Attach the fixing connector cover.

3.1.2.2 Mounting the Inner 2-Way Tray-C1

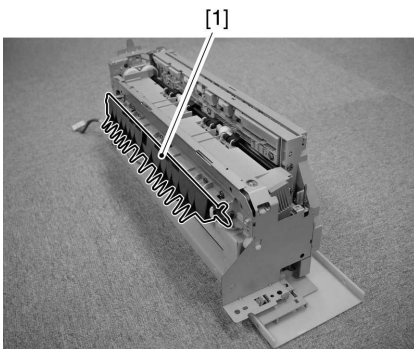
0004-4151

1) Take out the inner 2-way tray from its plastic bag. Be sure to hold the inner 2-way tray [1] as shown in the figure.



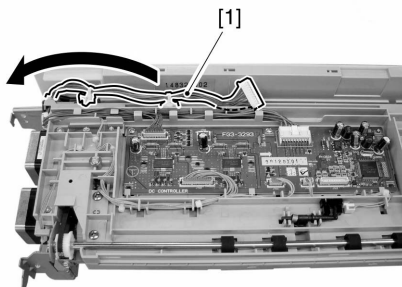
F-3-12

⚠ When holding the inner 2-way tray, be sure to pay attention to the No. 1 delivery flapper [1] at the bottom.



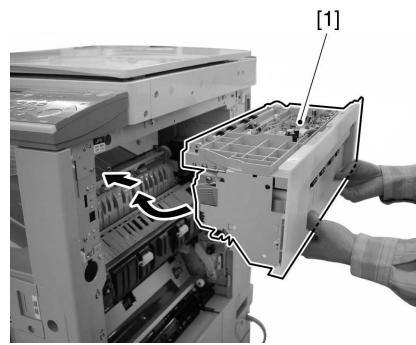
F-3-13

- 2) Remove all packing type from the inner 2-way tray.
- 3) Bring the harness [1] to the right side of the relay delivery unit.



F-3-14

- 4) Fit the inner 2-way tray [1] to the host machine.

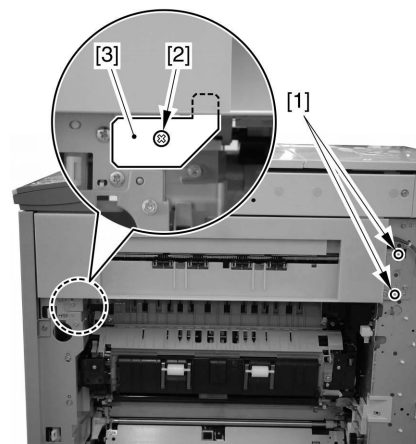


F-3-15

- 5) Temporary fix the 2 screws [1] 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.

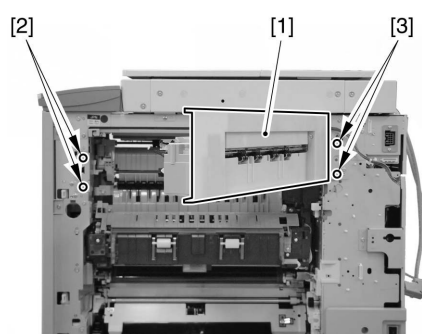


F-3-16

- 7) Open the inner 2-way tray [1], and fix it with the 2 screws [2] included in the package.

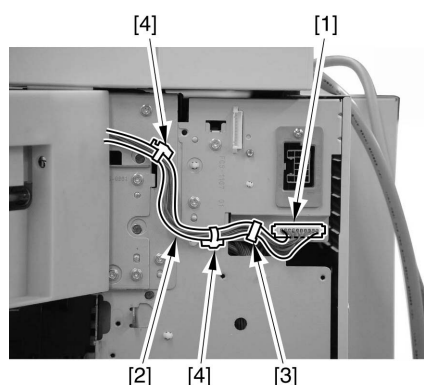
- 8) Fully tighten the 2 screws [3] temporarily tightened in step 21).

- 9) Close the inner 2-way tray [1].



F-3-17

- 10) Connect the connector [1] to the host machine.
- 11) Route the harness [2] through the cable clamp [3]; then, fit the 2 reusable bands [4] into the holes.

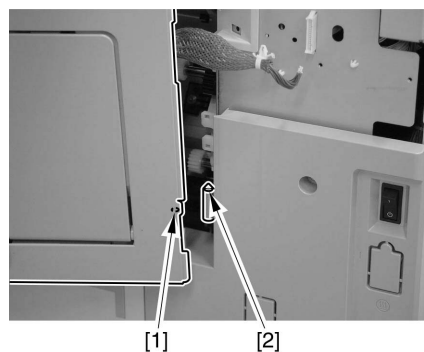


F-3-18

3.1.2.3 Mounting the Covers and the Right Door

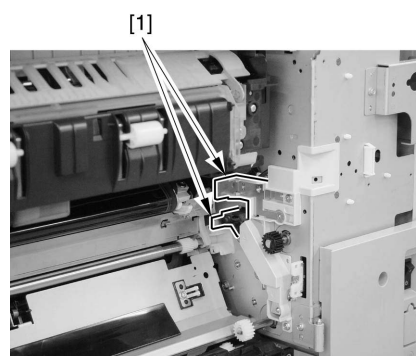
0004-4240

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



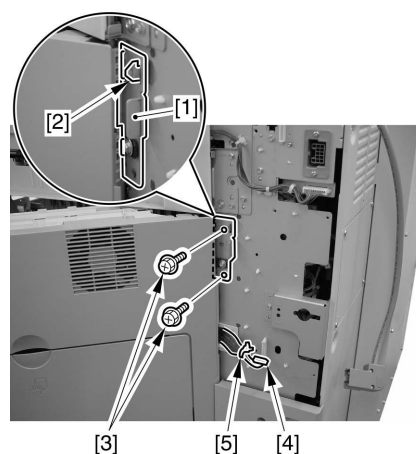
F-3-19

- ⚠** When doing so, be sure to take care not to break the high-voltage contact [1] for the secondary transfer external roller.



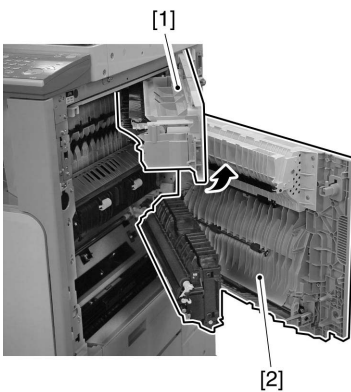
F-3-20

- 2) Fit the mounting plate [1] of the top of the right door in place by matching it against the hook [2].
- 3) Using 2 screws [3], secure the mounting plate [1] in place.
- 4) Fit the connector [4] and the reusable band [5].



F-3-21

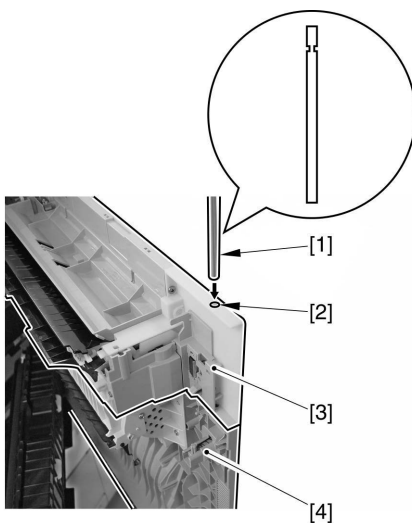
- 5) Open the inner 2-way tray [1].
- 6) Lift the inner 2-way tray [1], and position it against the right door [2].



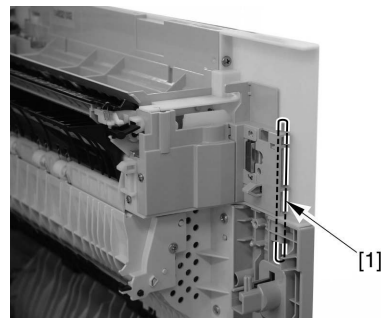
F-3-22

⚠ When positioning the inner 2-way tray, be sure to take care so that it will not be displaced upward of its correct position.

7) Push in the pin [1] through the hole [2] until it stops; then, connect the right door [4] and the inner 2-way tray [3].

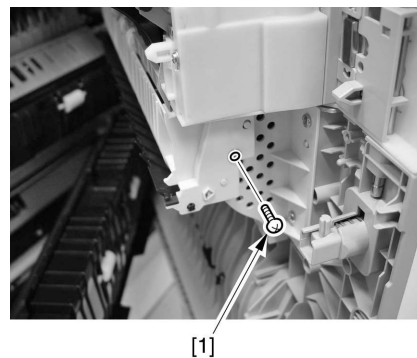


F-3-23



F-3-24

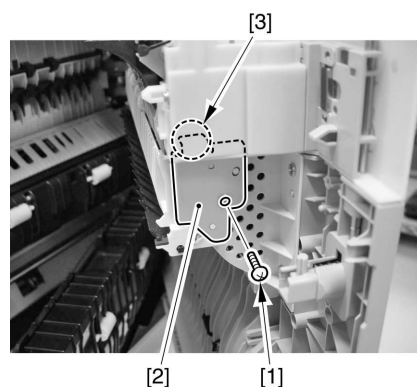
8) Remove the screw [1].



F-3-25

9) Attach the connecting sheet metal [2] with the screw [1] removed at step 35.

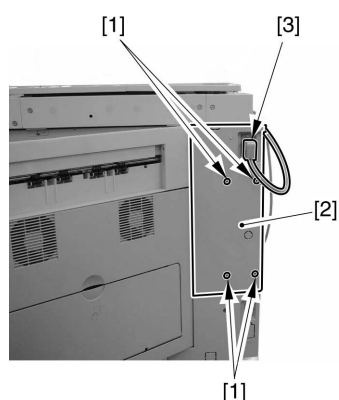
⚠ Check to make sure that the projection [3] of the connecting sheet metal is attached to the hole.



F-3-26

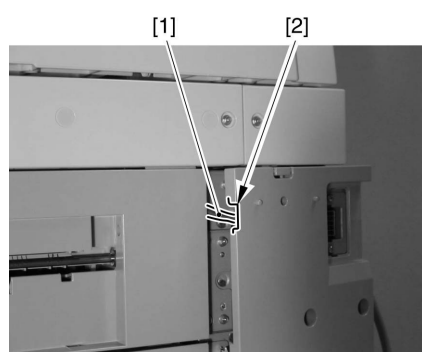
10) Using 4 screws [1], mount the rear right cover [2];

then, connect the reader power cable [3].



F-3-27

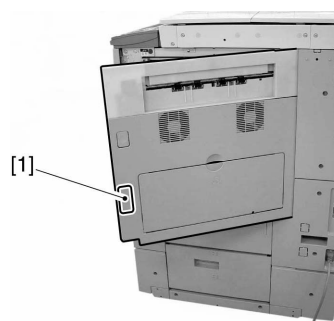
⚠ Take full care not to trap the harness [1] by the cut-off [2] of the right cover (upper right).



F-3-28

11) Close the right door.

⚠ To close the right door, push the area [1] indicated in the figure.

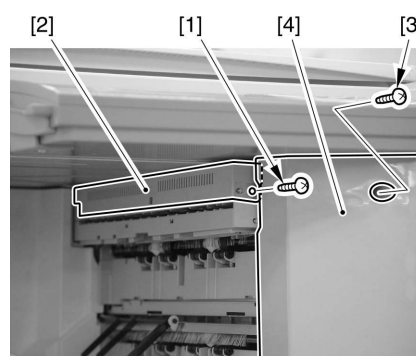


F-3-29

12) Attach the inner upper cover [2] with the self-tapping screw [1] included in the package.

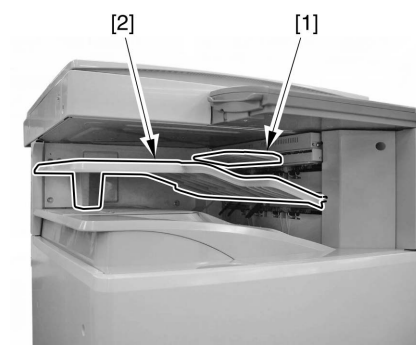
13) Using a screw [3], mount the support cover [4].

⚠ Attach back the blanking sheet if it is originally placed on the screw hole.



F-3-30

14) Mount the reversing guide [1] and the inside delivery tray [2].



F-3-31

3.1.3 Checking the Operation

3.1.3.1 Checking the Operation 0004-4213

- 1) Connect the power cable (to the power outlet).
 - 2) Turn on the main power switch.
 - 3) To suit the user's needs, set up the special tray; then, check the operation.
-

⚠ When setting up the No. 3 delivery assembly (delivery to the host machine's right side), be sure to make settings while the machine is fitted with a Copy Tray-J1.

After installation of the Copy Tray-J1 is completed, set the service mode, COPIER>OPTION>ACC>OUT-TRAY, to 1.

The inner 2-way tray-C1 has been installed.

Chapter 4 Parts

Replacement Procedure

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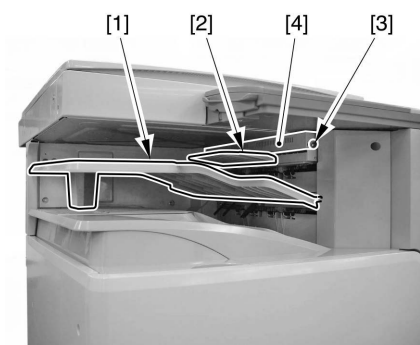
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4.1 Removing from the Host Machine

4.1.1 Inner 2 Way Tray

4.1.1.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0002-8563

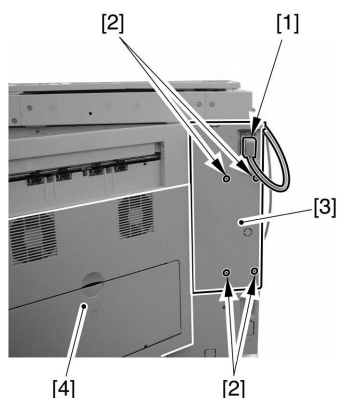
- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-1

4.1.1.2 Removing the Reader Unit Power Cable/Rear Right Cover 0002-8565

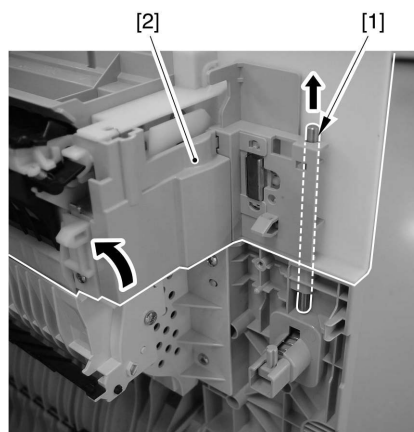
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-2

4.1.1.3 Removing the Inner 2-Way Tray 0002-8566

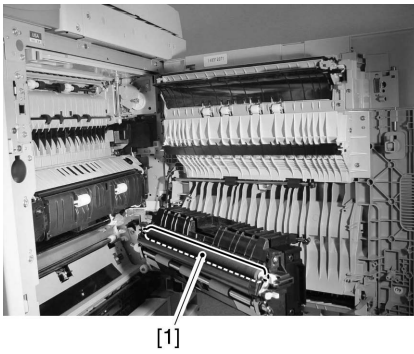
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-3

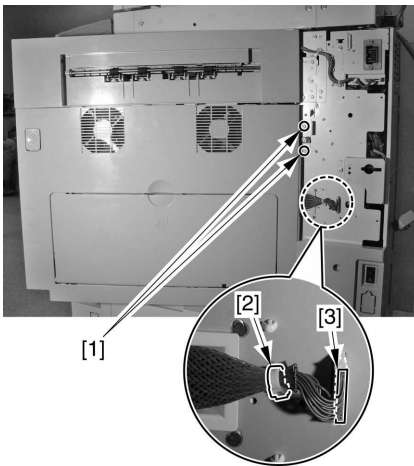
2)

- ⚠** When removing the right door, take care not to touch the secondary transfer outside roller [1].



F-4-4

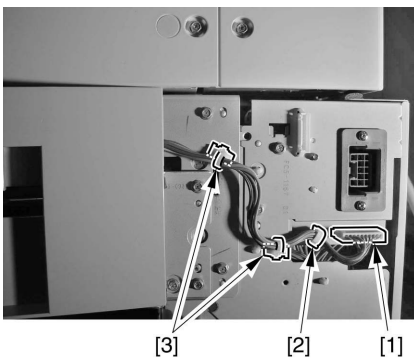
Remove the 2 screws [1], detach the reuse band [2], and disconnect the connector [3]; then, lift the right door to detach.



F-4-5

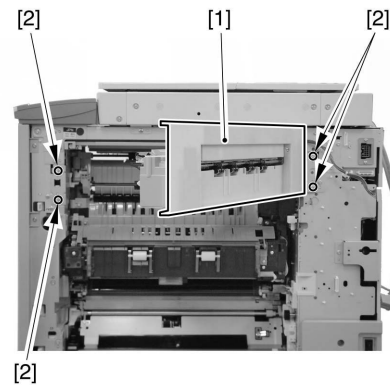
3) Disconnect the connector [1], and free the harness from the cable clamp [2].

4) Detach the 2 reuse bands [3].



F-4-6

5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-7

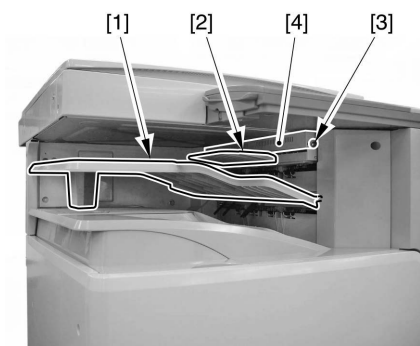
6) Detach the inner 2 way tray.

4.2 Drive System

4.2.1 Delivery Motor 2

4.2.1.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0001-2346

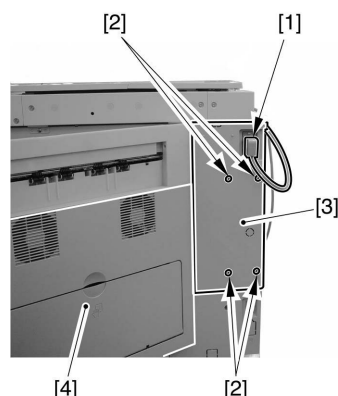
- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-8

4.2.1.2 Removing the Reader Unit Power Cable/Rear Right Cover 0001-2347

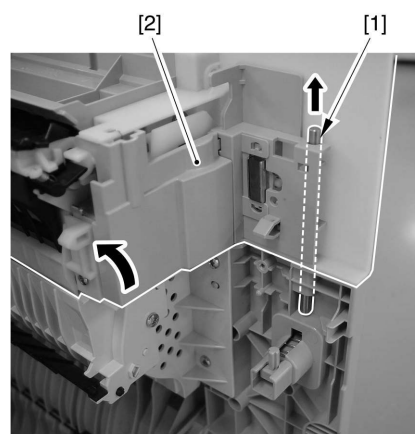
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-9

4.2.1.3 Removing the Inner 2-Way Tray 0001-2348

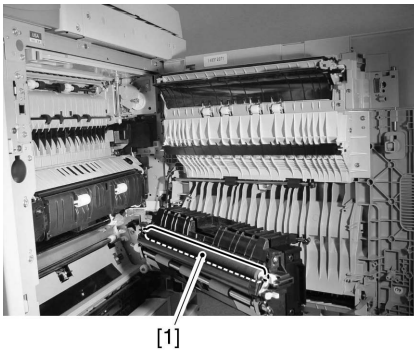
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-10

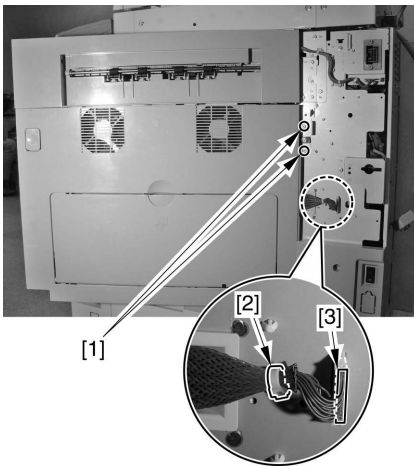
2)

- ⚠** When removing the right door, take care not to touch the secondary transfer outside roller [1].



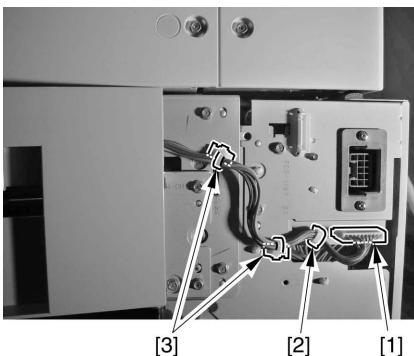
F-4-11

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



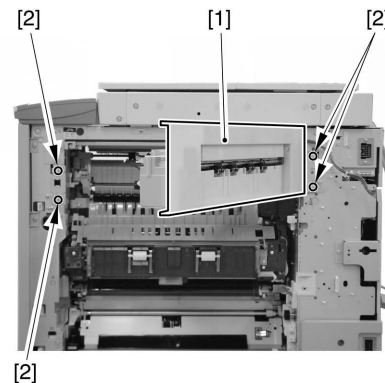
F-4-12

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-13

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-14

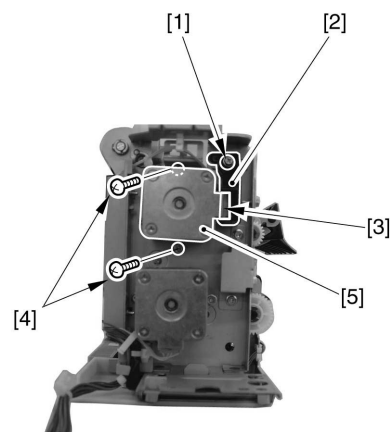
- 6) Detach the inner 2 way tray.

4.2.1.4 Removing the No. 2

Delivery Motor

0001-1307

- 1) Remove the screw [1], and detach the cover [2].
- 2) Disconnect the connector [3], and remove the 2 screws [4]; then, detach the No. 2 delivery motor [5].



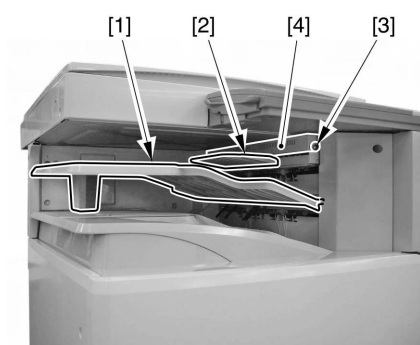
F-4-15

4.2.2 Delivery Motor 3

4.2.2.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0001-2349

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].

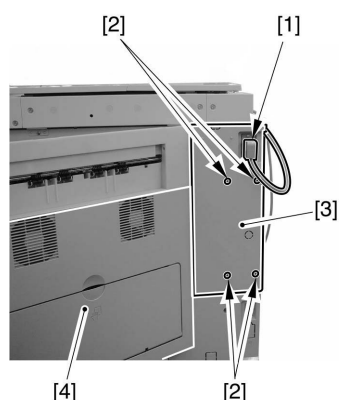


F-4-16

4.2.2.2 Removing the Reader Unit Power Cable/Rear Right Cover

0001-2350

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

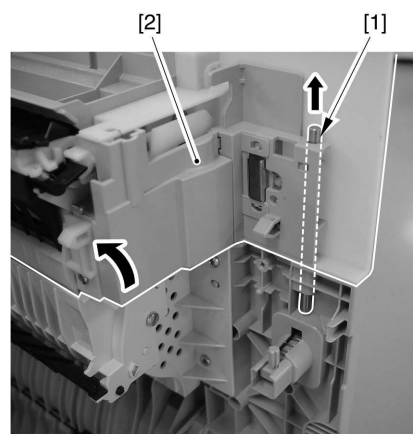


F-4-17

4.2.2.3 Removing the Inner 2-Way Tray

0001-2351

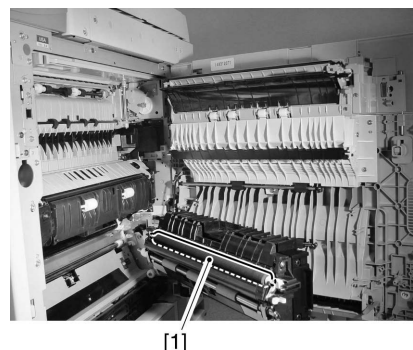
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-18

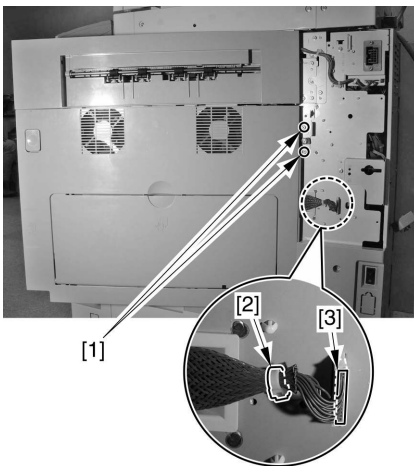
- 2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



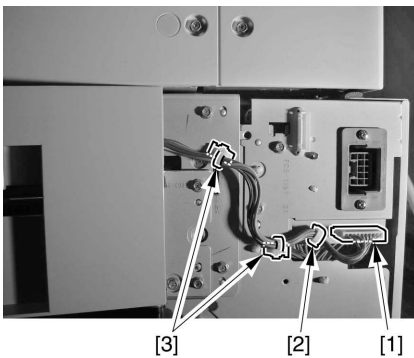
F-4-19

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



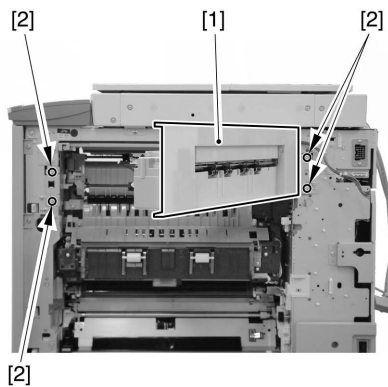
F-4-20

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-21

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-22

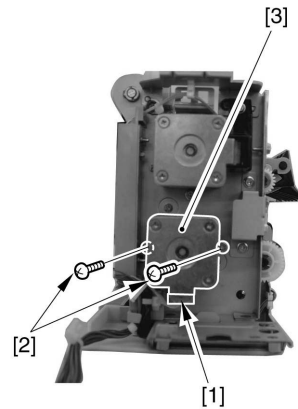
- 6) Detach the inner 2 way tray.

4.2.2.4 Removing the No. 3

Delivery Motor

0001-1310

- 1) Disconnect the connector [1], and remove the 2 screws [2]; then, detach the No. 3 delivery motor [3].



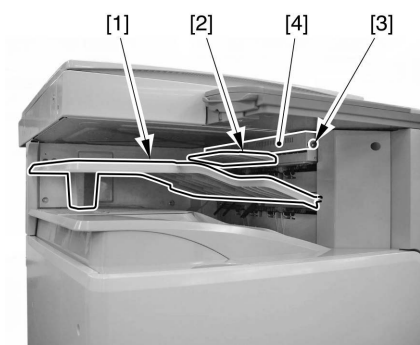
F-4-23

4.3 Document Feeding System

4.3.1 Delivery Roller 2

4.3.1.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0002-8768

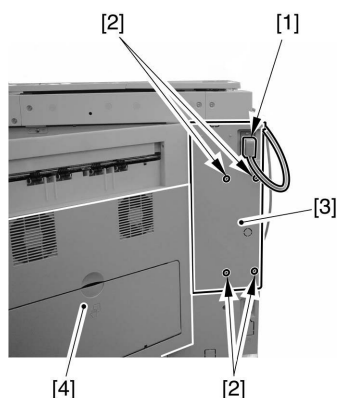
- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-24

4.3.1.2 Removing the Reader Unit Power Cable/Rear Right Cover 0002-8769

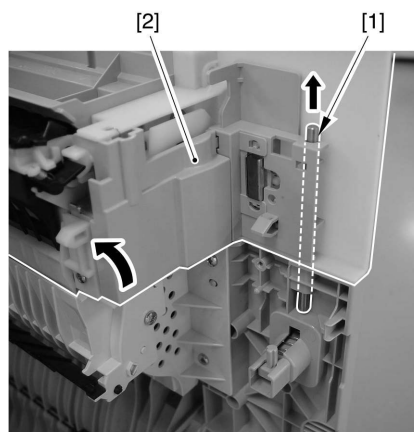
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-25

4.3.1.3 Removing the Inner 2-Way Tray 0002-8770

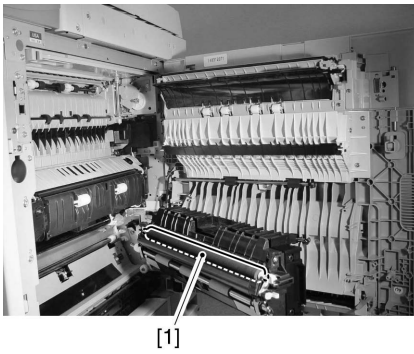
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-26

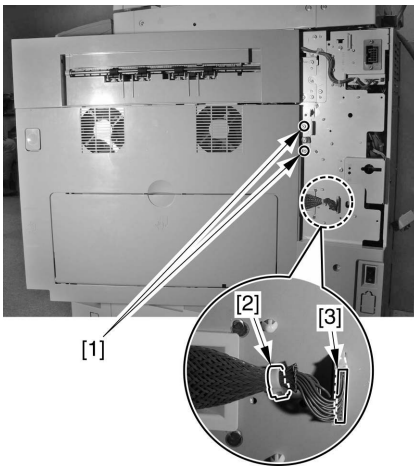
2)

- ⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



F-4-27

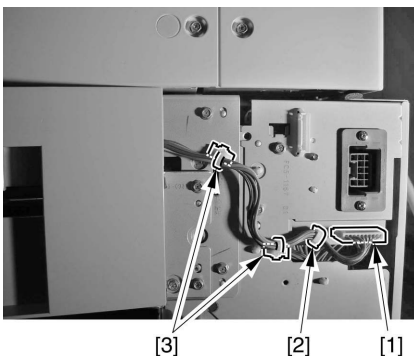
Remove the 2 screws [1], detach the reuse band [2], and disconnect the connector [3]; then, lift the right door to detach.



F-4-28

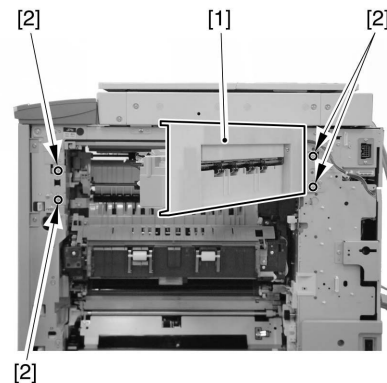
3) Disconnect the connector [1], and free the harness from the cable clamp [2].

4) Detach the 2 reuse bands [3].



F-4-29

5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



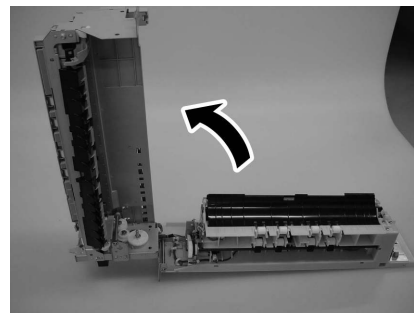
F-4-30

6) Detach the inner 2 way tray.

4.3.1.4 Removing the No. 2 Delivery Roller

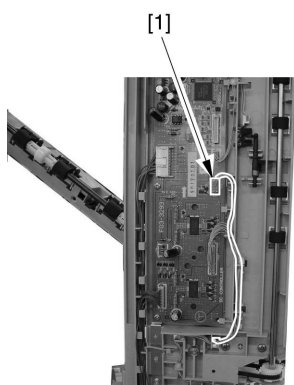
0001-1306

1) Open the inner 2-way tray.



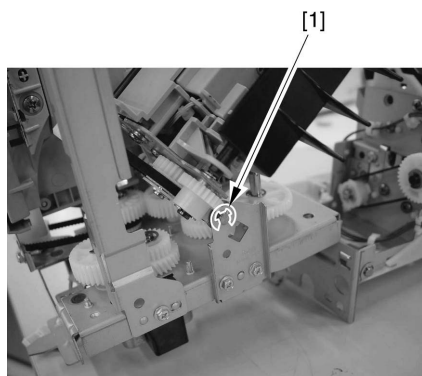
F-4-31

2) Disconnect the connector [1], and free the harness from the cable guide.



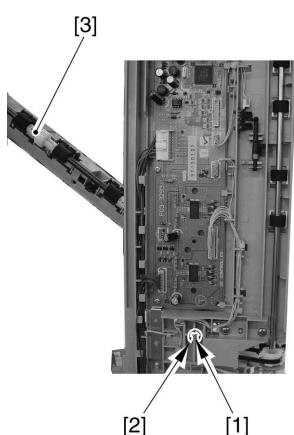
F-4-32

3) Remove the E-ring [1].



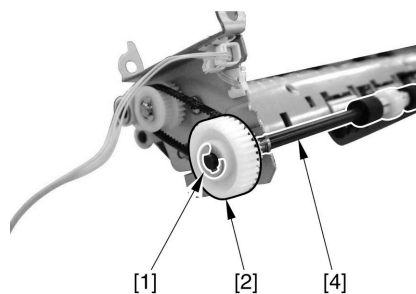
F-4-33

4) Remove the E-ring [1], slide out the joint pin [2]; then detach the No.2 delivery assembly [3].

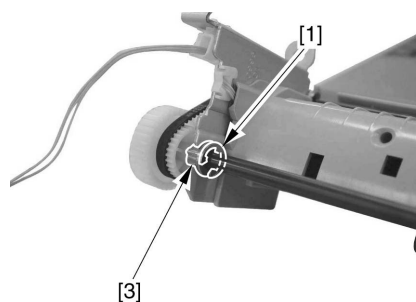


F-4-34

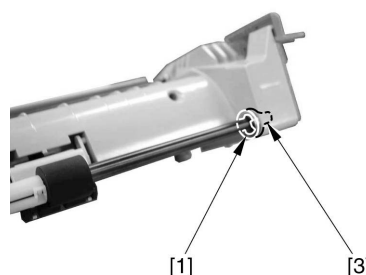
5) Remove the 3 E-rings [1], gear [2], and 2 bushings [3]; then, detach the No.2 delivery roller [4].



F-4-35



F-4-36



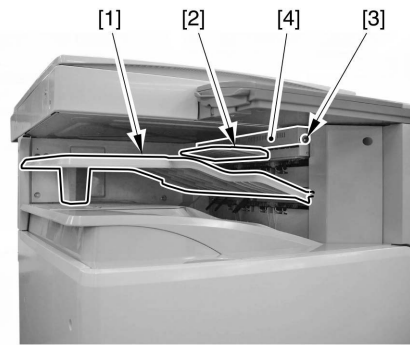
F-4-37

4.3.2 Reversing Roller

4.3.2.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0002-8772

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].

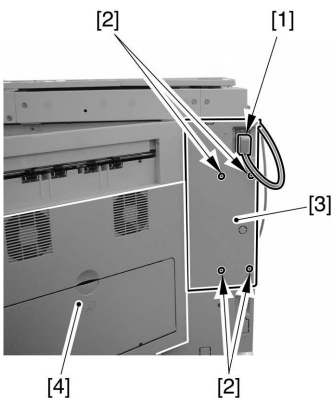


F-4-38

4.3.2.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-8775

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

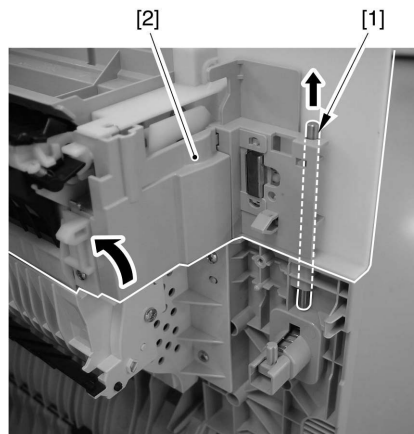


F-4-39

4.3.2.3 Removing the Inner 2-Way Tray

0002-8779

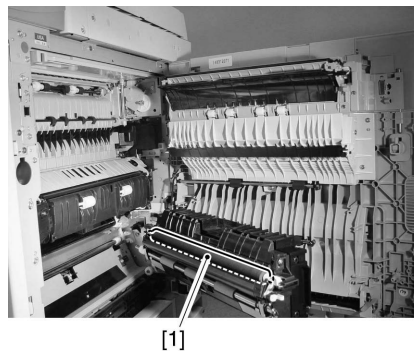
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-40

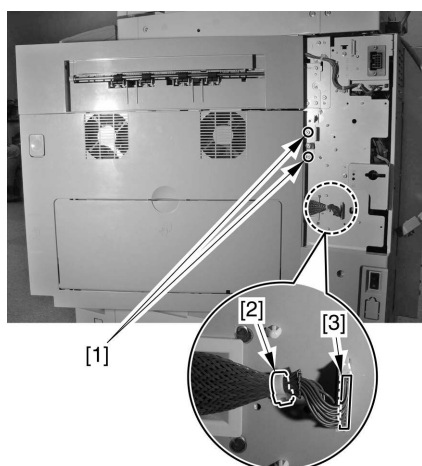
2)

- ⚠** When removing the right door, take care not to touch the secondary transfer outside roller [1].



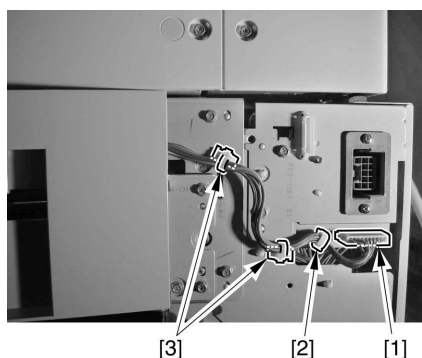
F-4-41

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



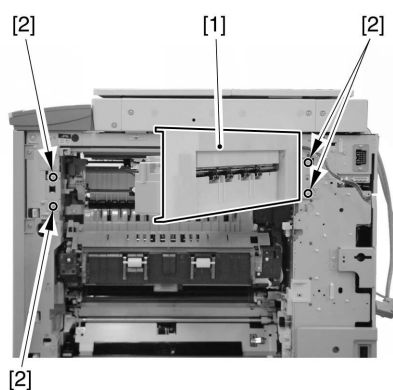
F-4-42

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-43

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



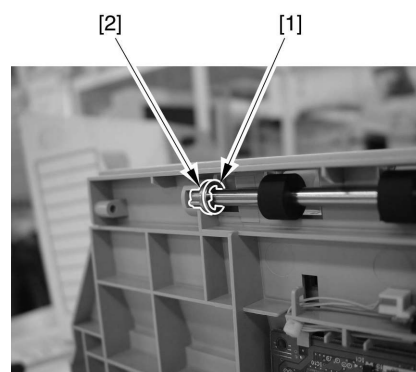
F-4-44

- 6) Detach the inner 2 way tray.

4.3.2.4 Removing the Reversing Roller

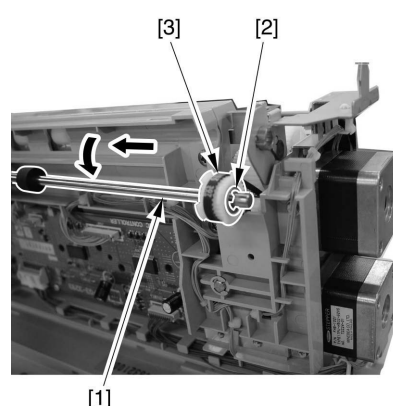
0001-1314

- 1) Remove the E-ring [1], and detach the bushing [2].



F-4-45

- 2) Slide the reversing roller [1] to the left, and move it down to the front. Then, remove the E-ring [2], and detach the reversing roller [1].



F-4-46

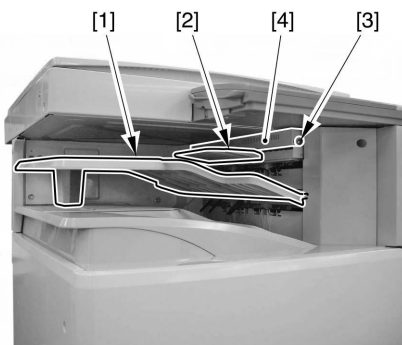
4.3.3 Delivery Roller 3

4.3.3.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0002-8771

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper

cover [4].

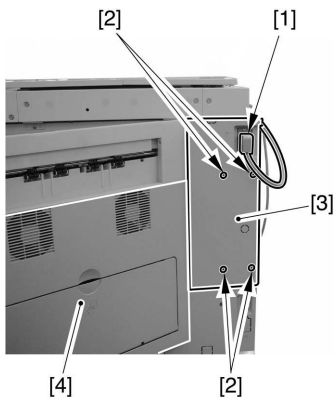


F-4-47

4.3.3.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-8776

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

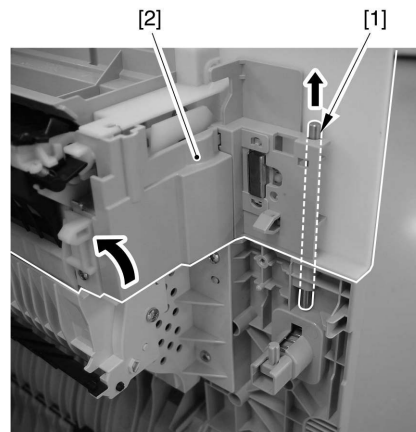


F-4-48

4.3.3.3 Removing the Inner 2-Way Tray

0002-8780

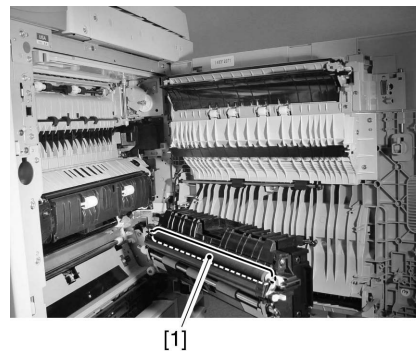
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-49

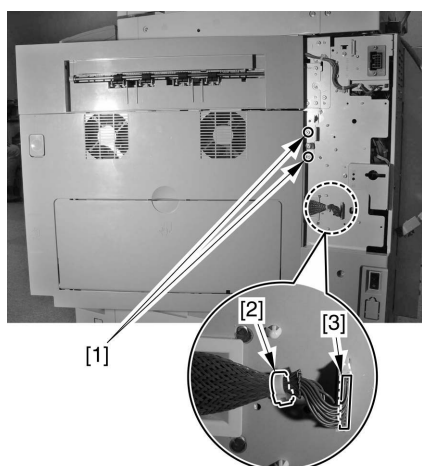
2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



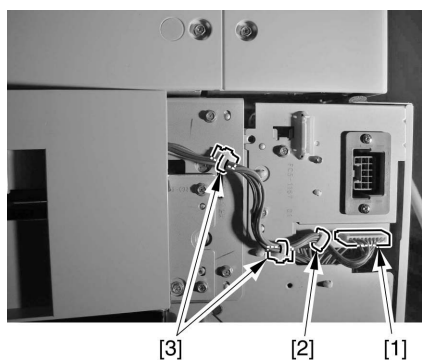
F-4-50

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



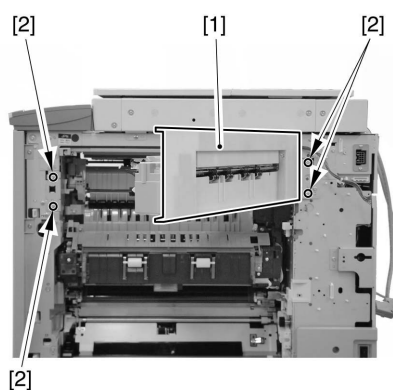
F-4-51

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-52

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



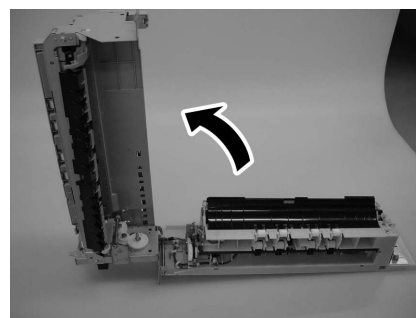
F-4-53

- 6) Detach the inner 2 way tray.

4.3.3.4 Removing the No. 3 Delivery Roller

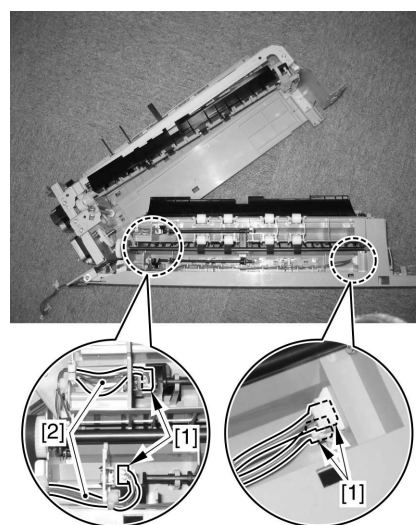
0001-1316

- 1) Open the inner 2-way tray.



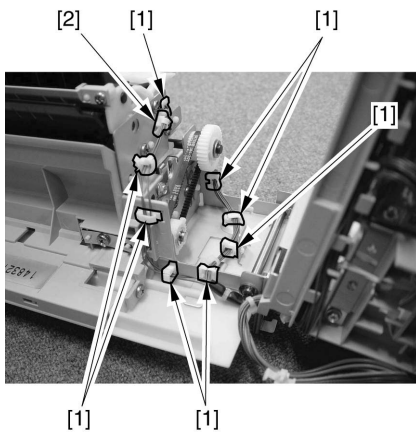
F-4-54

- 2) Disconnect the 4 connectors [1], and free the cable [2] from the cable guide.



F-4-55

- 3) Free the cable from the 8 wire saddles [1], and detach the reuse band [2].

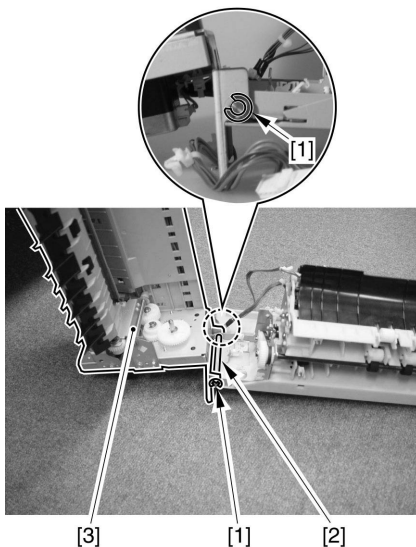


F-4-56

4)

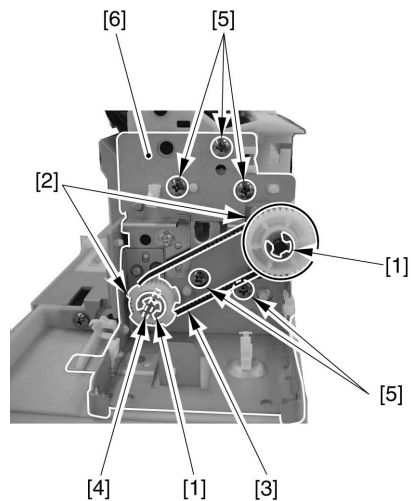
⚠ When pulling out the joint pin, hold down the No. 2 delivery assembly with your hand so that it will not fall.

Remove the 2 E-rings [1] and the joint pin [2]; then, detach the No. 2 delivery assembly [3].



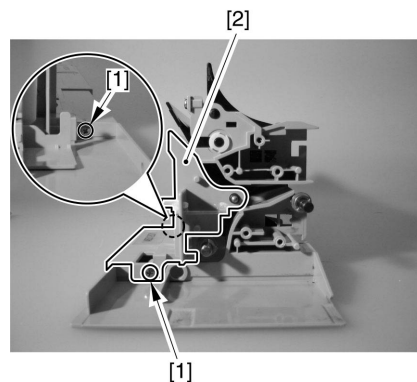
F-4-57

5) Remove the 2 E-rings [1], 2 gears [2], belt [3], pin [4], and 5 screws [5]; then, detach the plate [6].



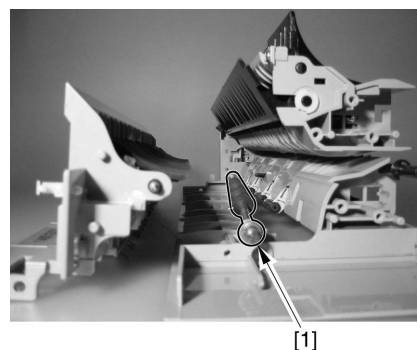
F-4-58

6) Remove the 2 screws [1], and detach the No. 3 delivery frame [2].



F-4-59

7) Remove the No. 3 delivery roller [1].

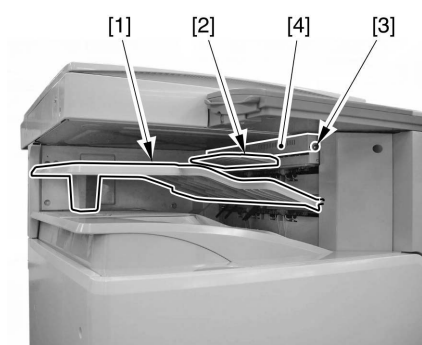


F-4-60

4.3.4 Duplexing Inlet Roller

4.3.4.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0002-8773

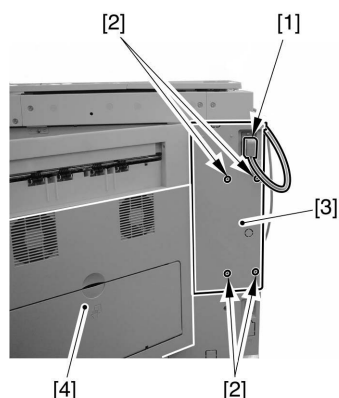
- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-61

4.3.4.2 Removing the Reader Unit Power Cable/Rear Right Cover 0002-8777

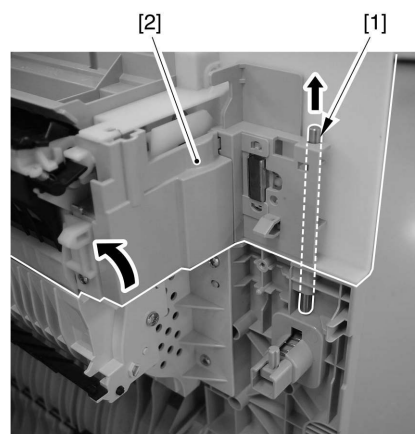
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-62

4.3.4.3 Removing the Inner 2-Way Tray 0002-8781

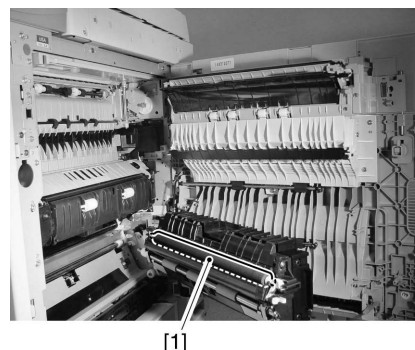
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-63

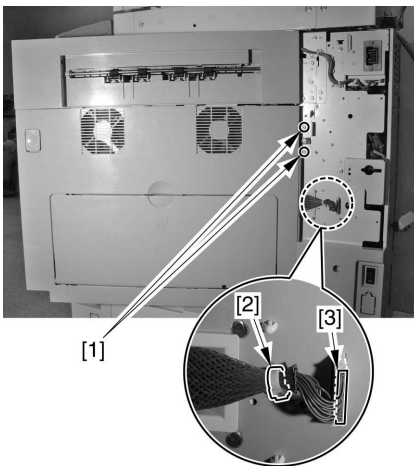
- 2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



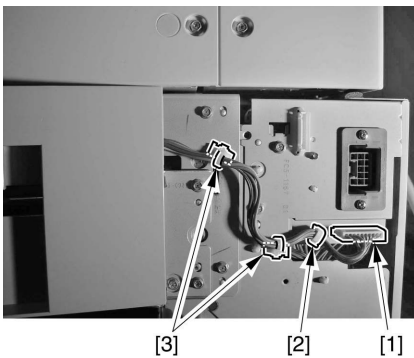
F-4-64

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



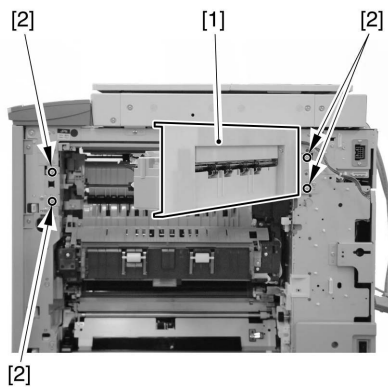
F-4-65

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-66

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



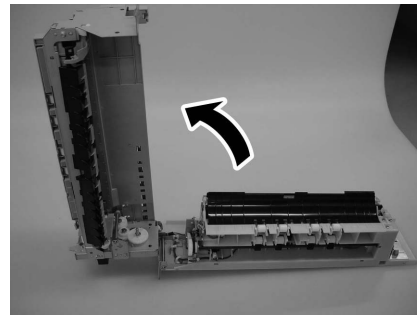
F-4-67

- 6) Detach the inner 2 way tray.

4.3.4.4 Removing the Duplex Inlet Roller

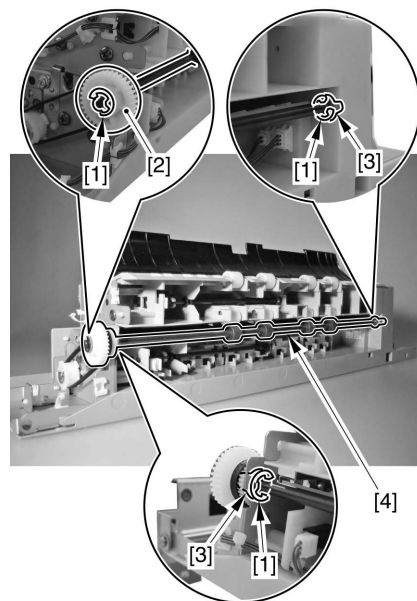
0001-1320

- 1) Open the inner 2-way tray.



F-4-68

- 2) Remove the 3 E-rings [1], gear [2], and 2 bushings [3]; then, detach the duplex inlet roller [4].

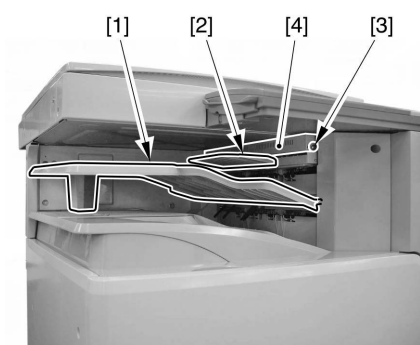


F-4-69

4.3.5 Inlet Roller

4.3.5.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0002-8774

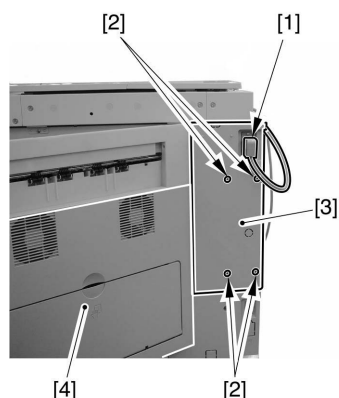
- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-70

4.3.5.2 Removing the Reader Unit Power Cable/Rear Right Cover 0002-8778

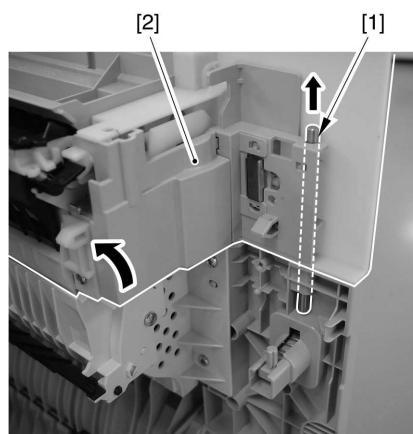
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-71

4.3.5.3 Removing the Inner 2-Way Tray 0002-8782

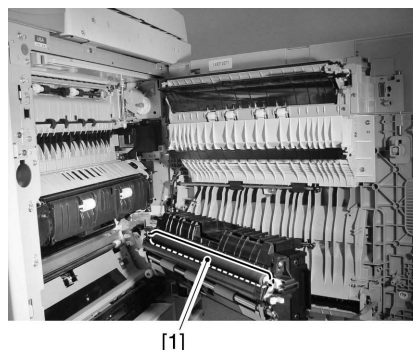
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-72

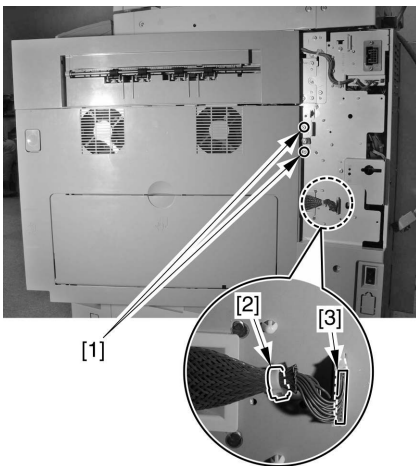
- 2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



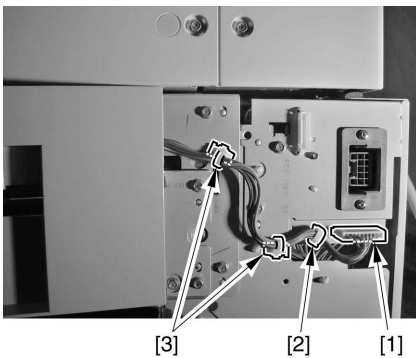
F-4-73

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



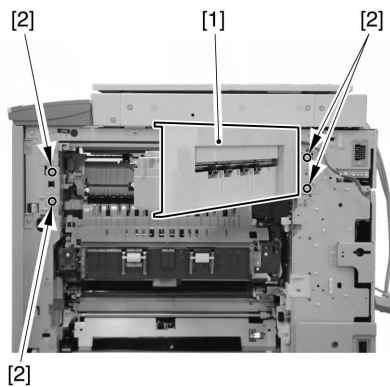
F-4-74

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-75

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



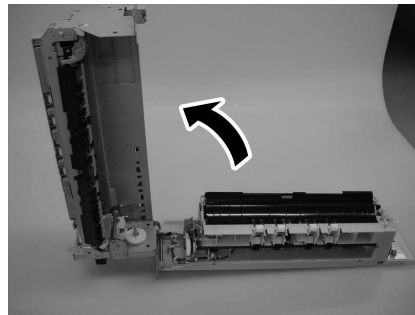
F-4-76

- 6) Detach the inner 2 way tray.

4.3.5.4 Removing the Inlet Roller

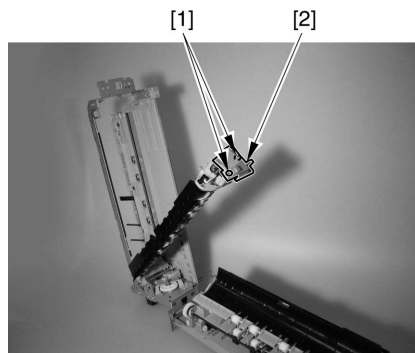
0001-1321

- 1) Open the inner 2-way tray.



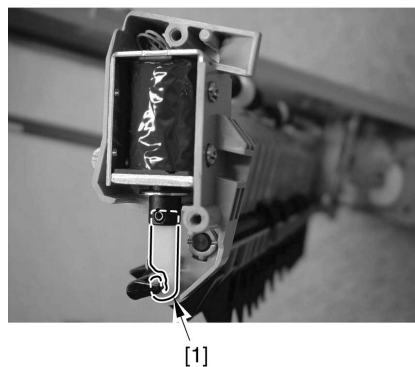
F-4-77

- 2) Remove the 2 screws [1], and detach the cover [2].



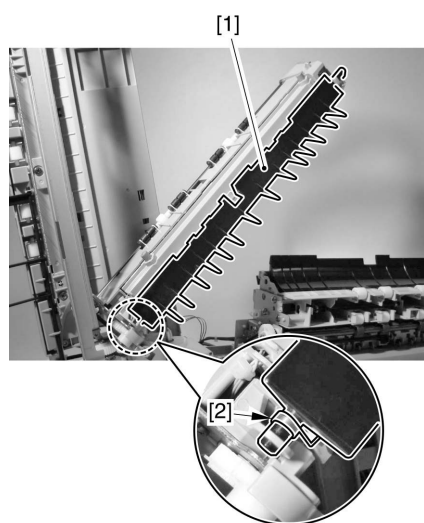
F-4-78

- 3) Remove the solenoid lever [1].



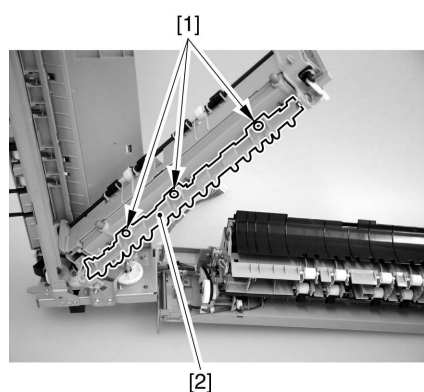
F-4-79

- 4) Remove the No. 1 delivery flapper [1] and the spring [2].



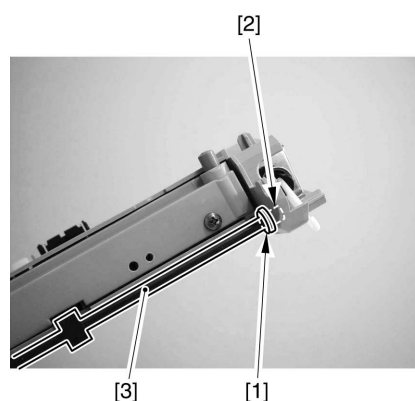
F-4-80

- 5) Remove the 3 screws [1], and detach the cover [2].

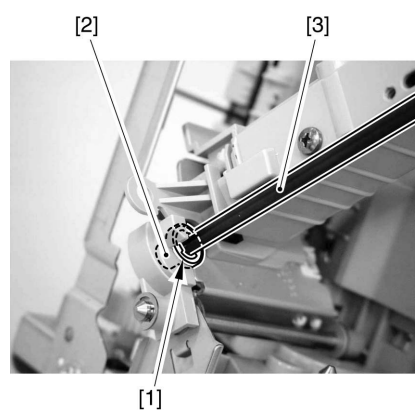


F-4-81

- 6) Remove the 2 E-rings [1], and detach the 2 bushings [2]; then, detach the inlet roller [3].



F-4-82



F-4-83

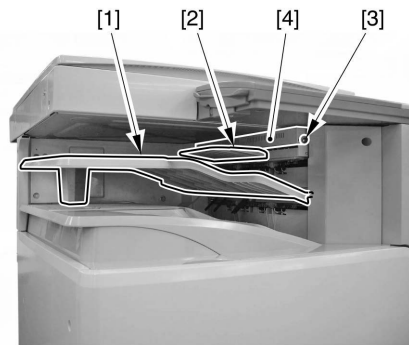
4.4 Electrical System

4.4.1 Delivery Sensor 2

4.4.1.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0002-9082

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].

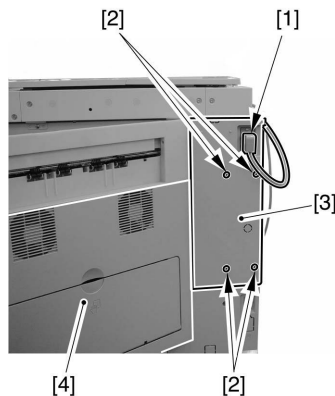


F-4-84

4.4.1.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-9088

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

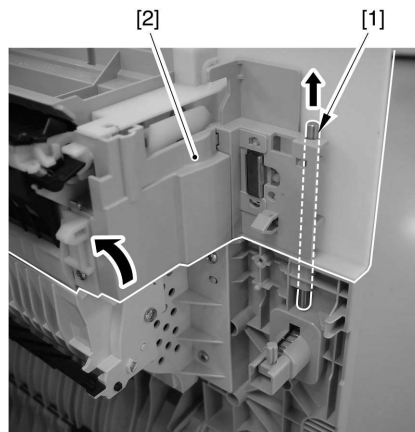


F-4-85

4.4.1.3 Removing the Inner 2-Way Tray

0002-9096

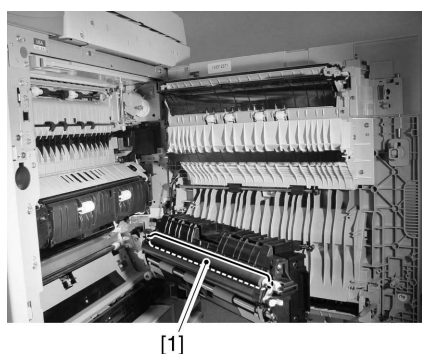
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-86

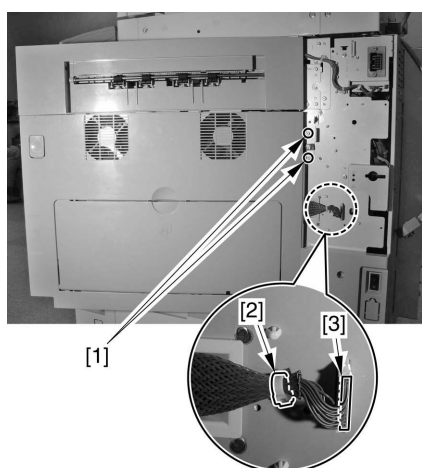
2)

- ⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



F-4-87

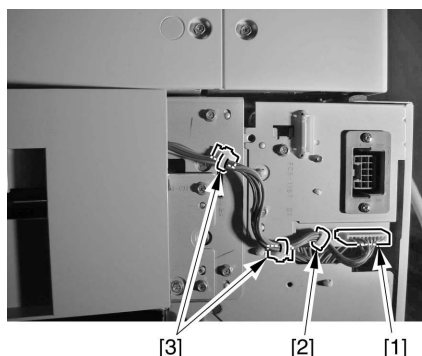
Remove the 2 screws [1], detach the reuse band [2], and disconnect the connector [3]; then, lift the right door to detach.



F-4-88

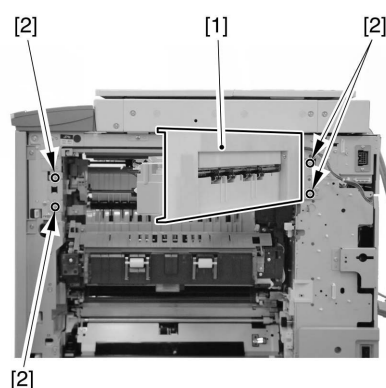
3) Disconnect the connector [1], and free the harness from the cable clamp [2].

4) Detach the 2 reuse bands [3].



F-4-89

5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



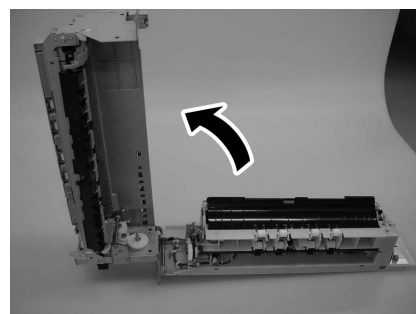
F-4-90

6) Detach the inner 2 way tray.

4.4.1.4 Removing the No. 2 Delivery Sensor

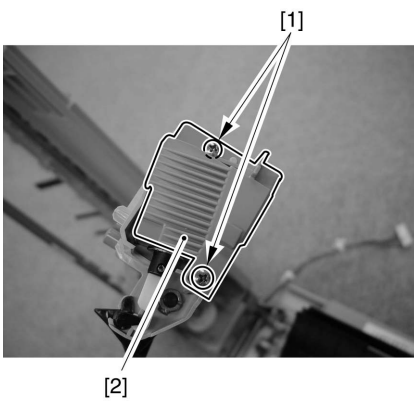
0001-1312

1) Open the inner 2-way tray.



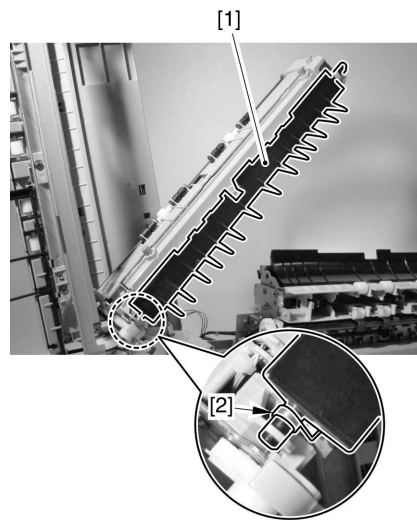
F-4-91

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



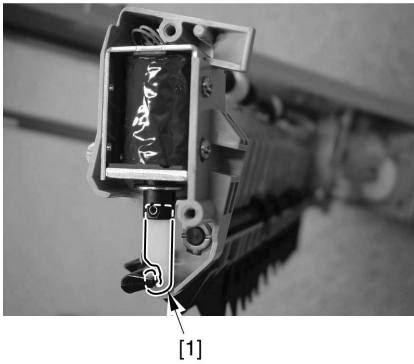
F-4-92

3) Remove the solenoid lever [1].



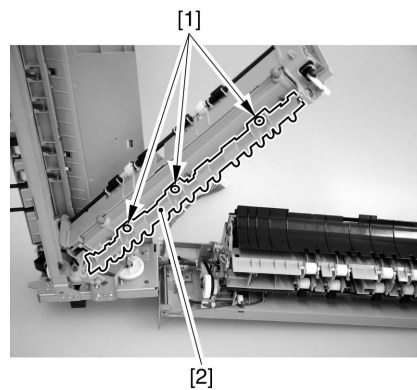
F-4-94

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



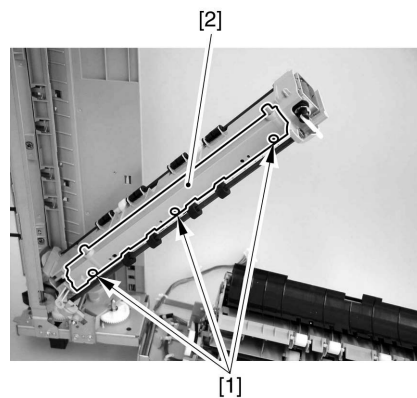
F-4-93

4) Remove the No. 1 delivery flapper [1] and the spring [2].



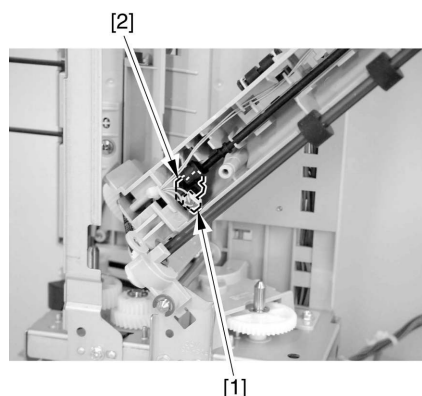
F-4-95

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



F-4-96

- 7) Disconnect the connector [1], and detach the No. 2 delivery sensor [2].

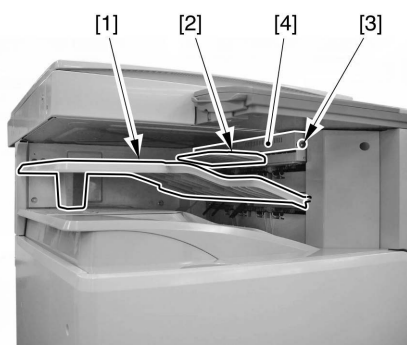


F-4-97

4.4.2 Delivery Tray 2 Paper Level Sensor

4.4.2.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover 0002-9083

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].

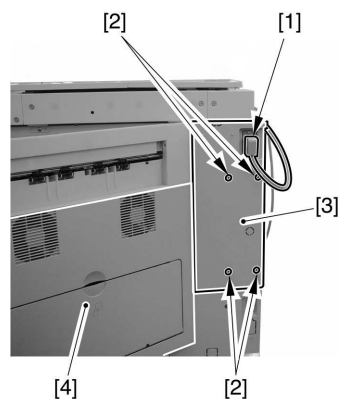


F-4-98

4.4.2.2 Removing the Reader Unit Power Cable/Rear Right Cover 0002-9089

- 1) Disconnect the reader unit power cable [1].

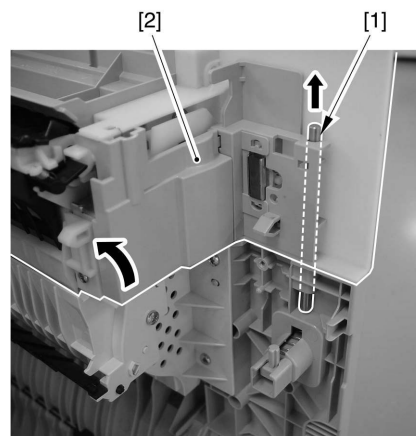
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-99

4.4.2.3 Removing the Inner 2-Way Tray 0002-9097

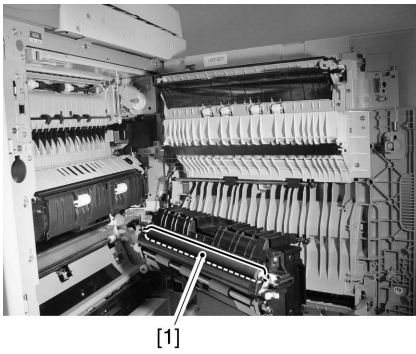
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-100

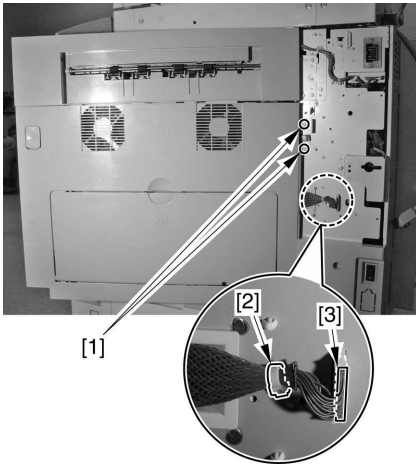
- 2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



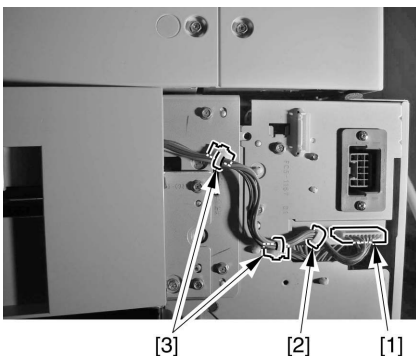
F-4-101

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



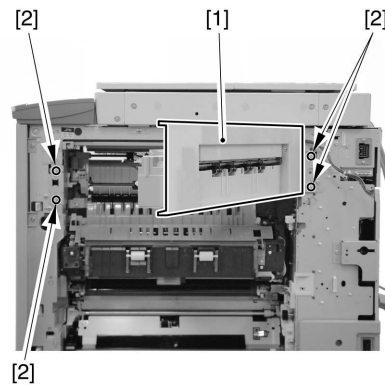
F-4-102

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-103

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-104

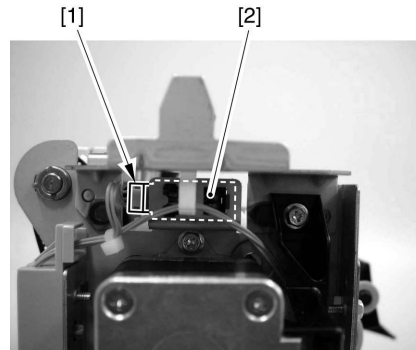
- 6) Detach the inner 2 way tray.

4.4.2.4 Removing the No. 2

Delivery Tray Full Sensor

0001-1318

- 1) Disconnect the connector [1], and detach the No. 2 delivery tray full sensor [2].



F-4-105

4.4.3 Reversal Sensor

4.4.3.1 Removing the Inside

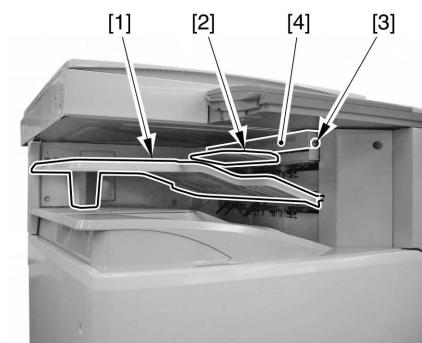
Delivery Tray/Reversal

Guide/Inside Upper Cover

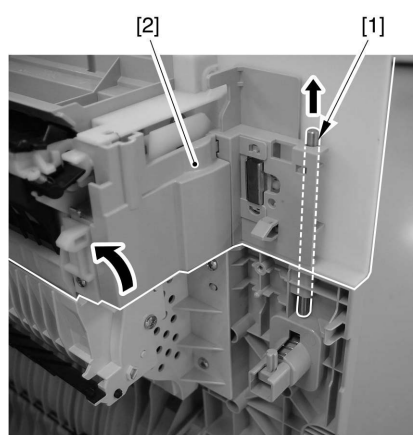
0002-9084

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].

- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-106

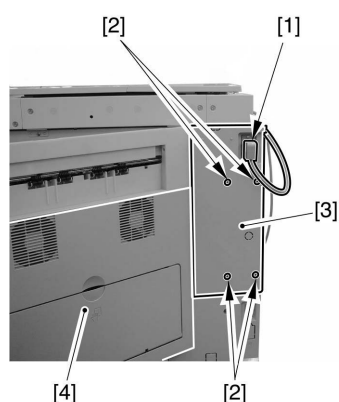


F-4-108

4.4.3.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-9090

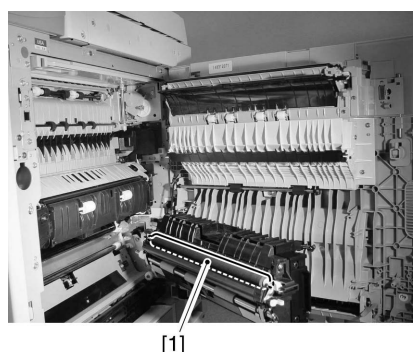
- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



F-4-107

- 2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



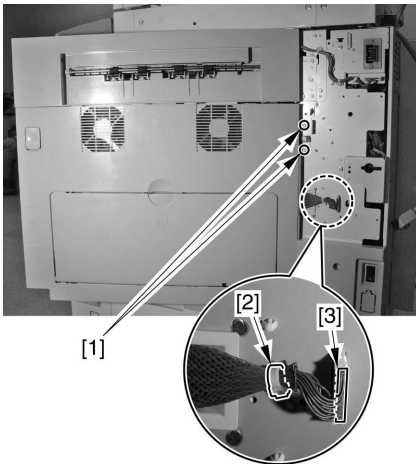
F-4-109

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

4.4.3.3 Removing the Inner 2-Way Tray

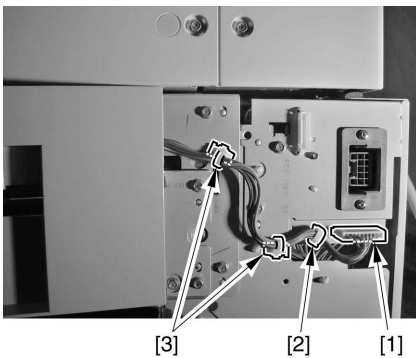
0002-9098

- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



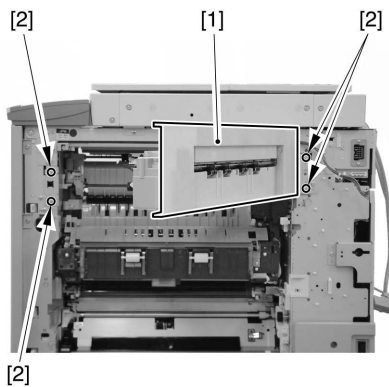
F-4-110

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-111

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-112

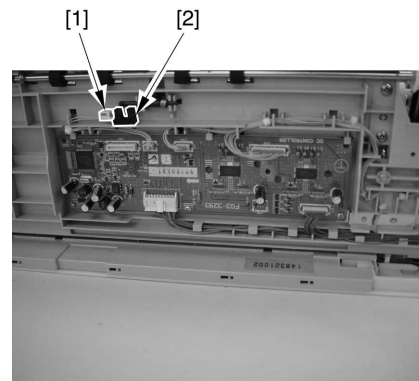
- 6) Detach the inner 2 way tray.

4.4.3.4 Removing the Reversal

Sensor

0001-1289

- 1) Disconnect the connector [1], and detach the reversal sensor [2].



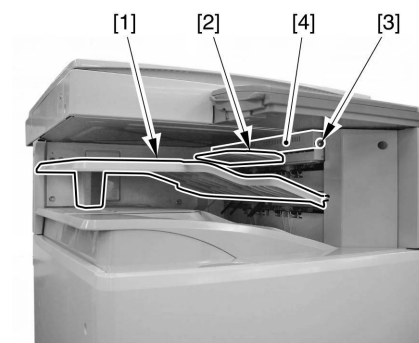
F-4-113

4.4.4 Duplexing Inlet Sensor

4.4.4.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0002-9085

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].



F-4-114

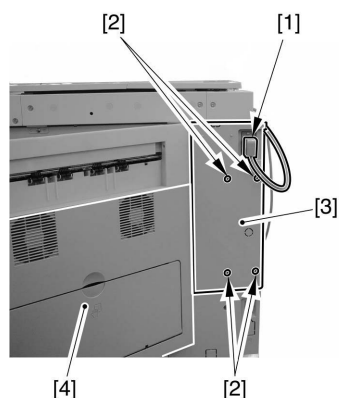
4.4.4.2 Removing the Reader

Unit Power Cable/Rear Right

Cover

0002-9091

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].



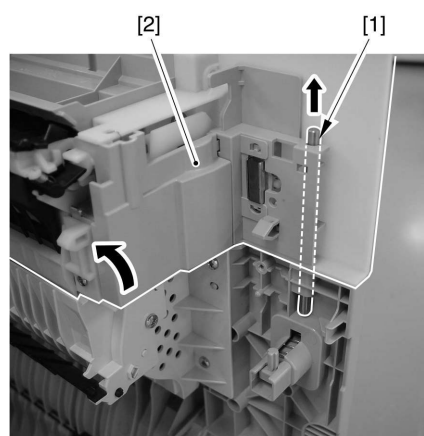
F-4-115

4.4.4.3 Removing the Inner 2-Way Tray

Way Tray

0002-9099

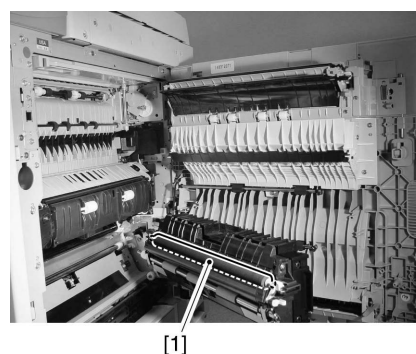
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-116

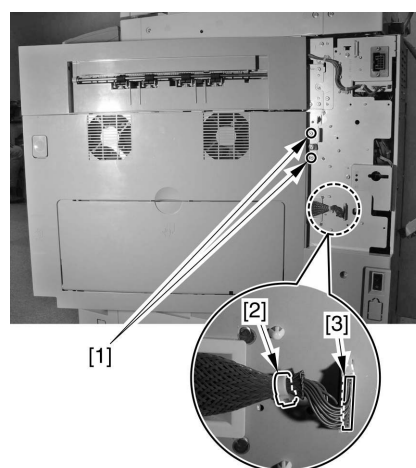
2)

- ⚠** When removing the right door, take care not to touch the secondary transfer outside roller [1].



F-4-117

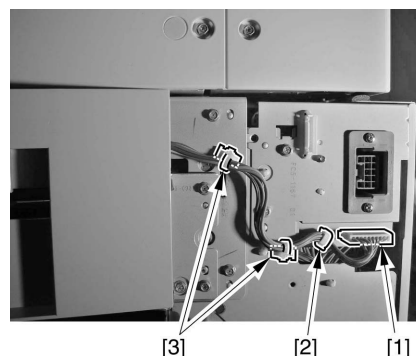
Remove the 2 screws [1], detach the reuse band [2], and disconnect the connector [3]; then, lift the right door to detach.



F-4-118

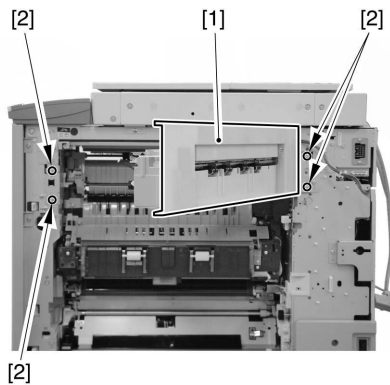
- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].

- 4) Detach the 2 reuse bands [3].



F-4-119

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



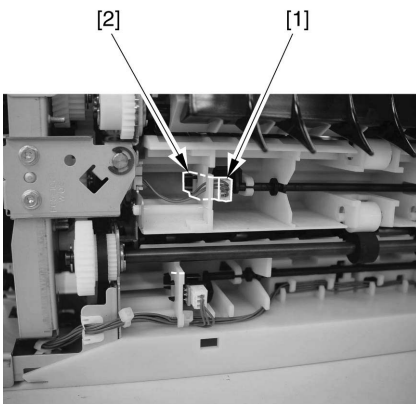
F-4-120

- 6) Detach the inner 2 way tray.

4.4.4.4 Removing the Duplex Inlet Sensor

0001-1293

- 1) Disconnect the connect [1], and detach the duplex inlet sensor [2].



F-4-121

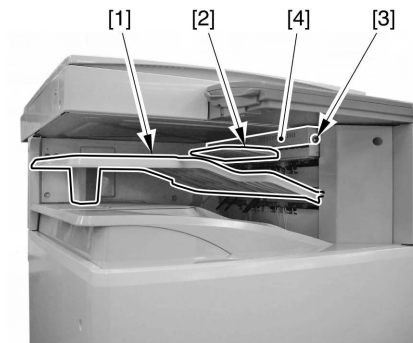
4.4.5 Delivery Sensor 3

4.4.5.1 Removing the Inside Delivery Tray/Reversal Guide/Inside Upper Cover

0002-9086

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper

cover [4].

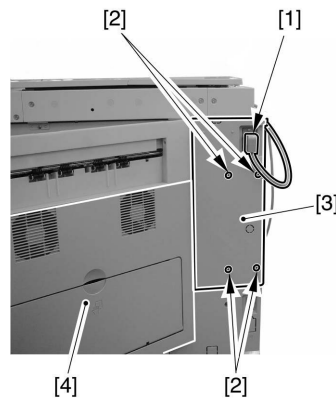


F-4-122

4.4.5.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-9092

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

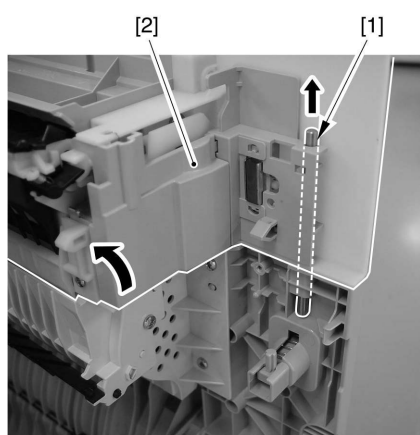


F-4-123

4.4.5.3 Removing the Inner 2-Way Tray

0002-9100

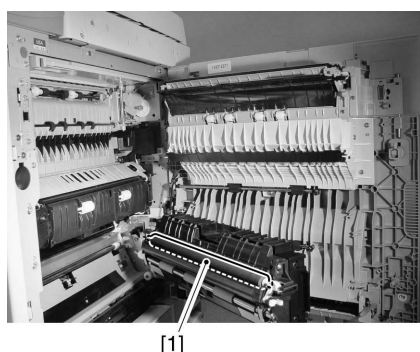
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-124

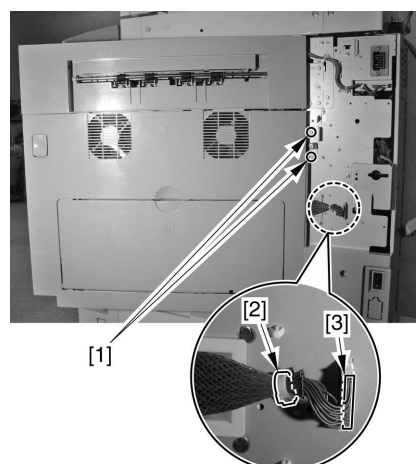
2)

⚠ When removing the right door, take care not to touch the secondary transfer outside roller [1].



F-4-125

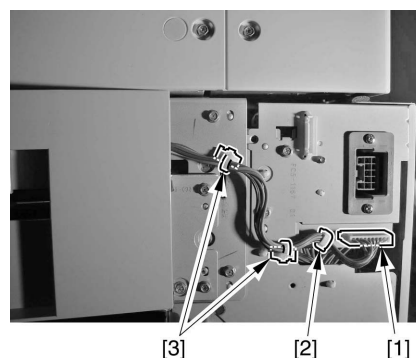
Remove the 2 screws [1], detach the reuse band [2], and disconnect the connector [3]; then, lift the right door to detach.



F-4-126

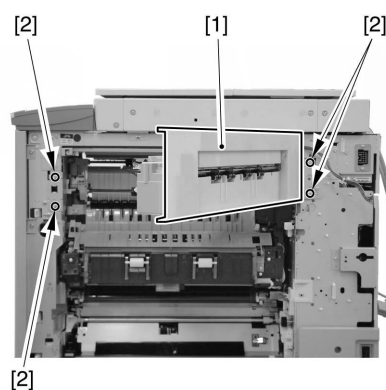
3) Disconnect the connector [1], and free the harness from the cable clamp [2].

4) Detach the 2 reuse bands [3].



F-4-127

5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



F-4-128

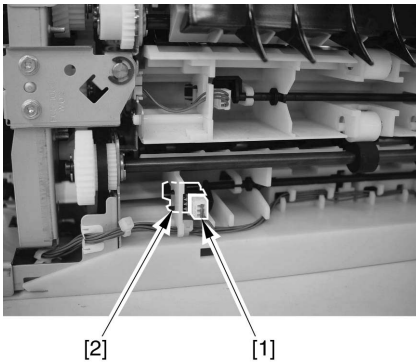
6) Detach the inner 2 way tray.

4.4.5.4 Removing the No. 3

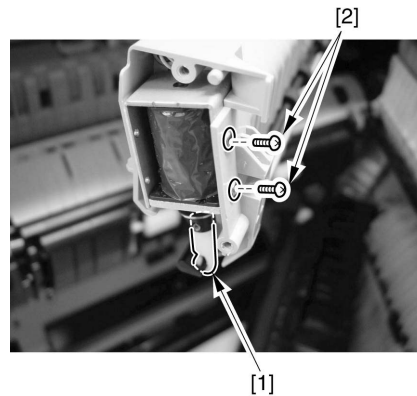
Delivery Sensor

0001-1297

1) Disconnect the connector [1], and detach the No. 3 delivery sensor [2].

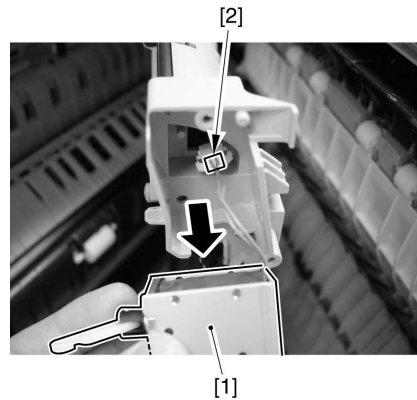


F-4-129



F-4-131

3) Pull out the solenoid [1], and disconnect the connector [2]; then, pull out the solenoid [1].



F-4-132

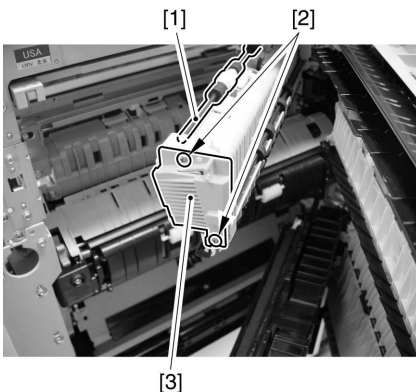
4.4.6 Delivery Solenoid 1

4.4.6.1 Removing the No. 1

Delivery Solenoid

0001-1299

1) Open the right door, and open the No. 2 delivery assembly [1]: then, remove the 2 screws [2], and detach the cover [3].



F-4-130

2) Remove the solenoid bar [1]; then, remove the 2 screws [2].

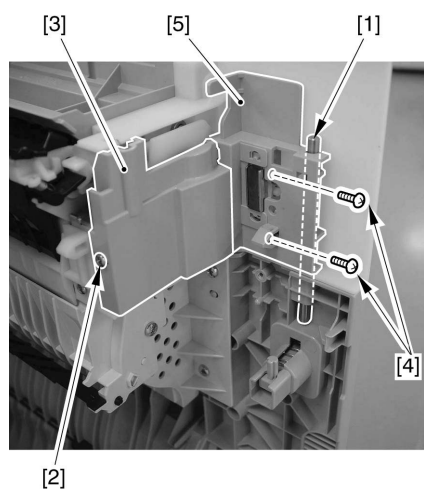
4.4.7 Delivery Solenoid 2

4.4.7.1 Removing the No. 2

Delivery Solenoid

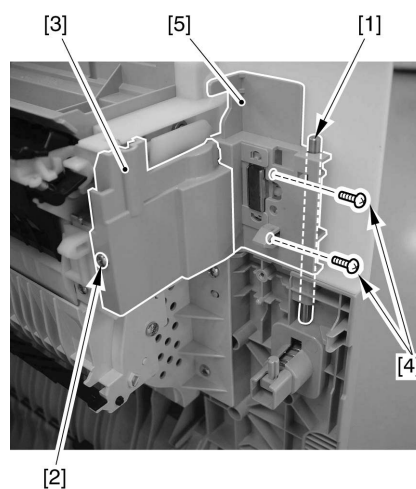
0001-1303

1) Open the right door, and remove the joint pin [1].
2) Loosen the screw [2]; and detach the cover [3].
Remove the 2 screws [4], and detach the cover [5].



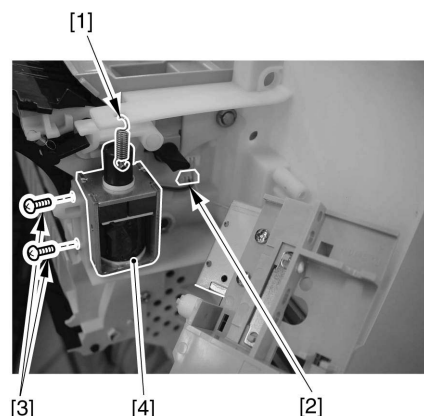
F-4-133

- 3) Remove the spring [1], disconnect the connector [2], and remove the 2 screws [3]; then, detach the No. 2 delivery solenoid [4].



F-4-135

- 3) Disconnect the connector [1], and remove the 2 screws [2]; then, detach the No. 3 delivery solenoid [3].



F-4-134

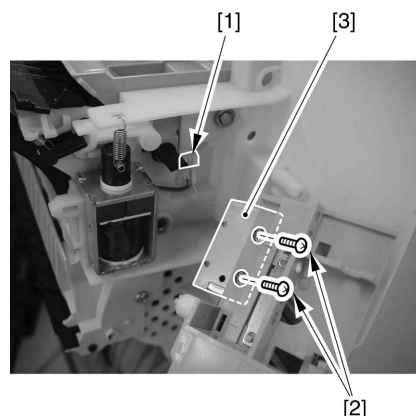
4.4.8 Delivery Solenoid 3

4.4.8.1 Removing the No. 3

Delivery Solenoid

0001-1305

- 1) Open the right door, and remove the joint pin [1].
- 2) Loosen the screw [2], and detach the cover [3].
Remove the 2 screws [4], and detach the cover [5].



F-4-136

4.4.9 Inner 2-way Controller PCB

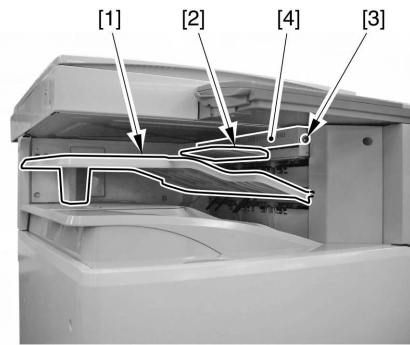
4.4.9.1 Removing the Inside

Delivery Tray/Reversal

Guide/Inside Upper Cover

0002-9087

- 1) Remove the inside delivery tray [1].
- 2) Remove the reversing guide [2].
- 3) Remove the screw [3], and detach the inside upper cover [4].

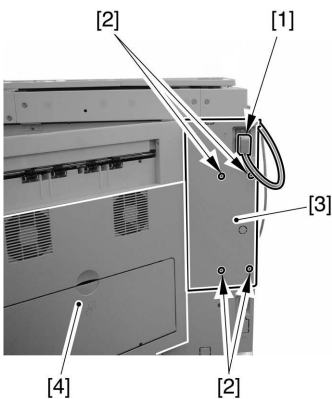


F-4-137

4.4.9.2 Removing the Reader Unit Power Cable/Rear Right Cover

0002-9095

- 1) Disconnect the reader unit power cable [1].
- 2) Remove the 4 screws [2], and detach the rear right cover [3].
- 3) Open the right cover [4].

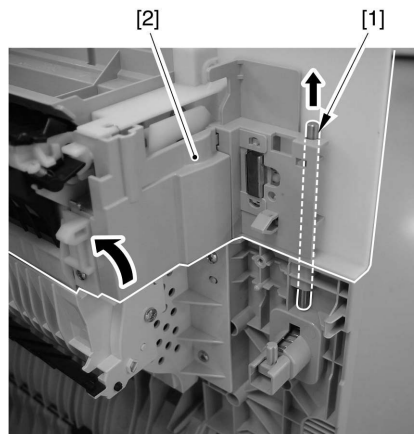


F-4-138

4.4.9.3 Removing the Inner 2-Way Tray

0002-9101

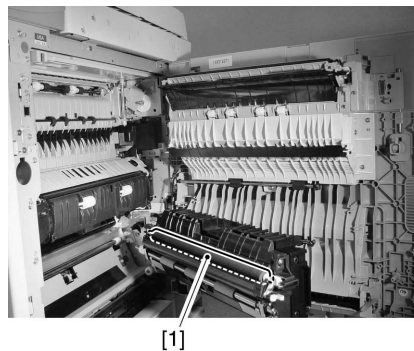
- 1) Remove the joint pin [1], and lift the inner 2-way tray [2] to separate it from the right door.



F-4-139

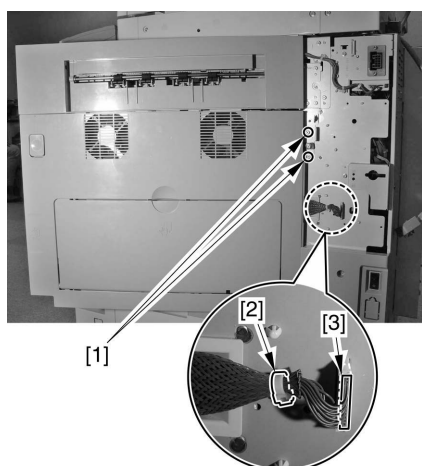
2)

- ⚠** When removing the right door, take care not to touch the secondary transfer outside roller [1].



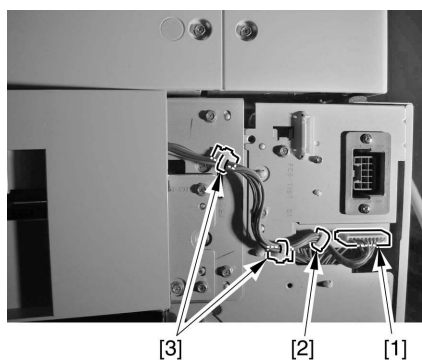
F-4-140

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



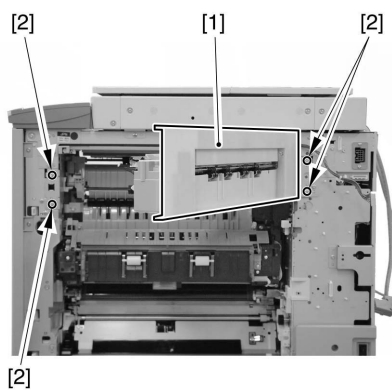
F-4-141

- 3) Disconnect the connector [1], and free the harness from the cable clamp [2].
- 4) Detach the 2 reuse bands [3].



F-4-142

- 5) Open the inner 2-way tray [1], and remove the 4 screws; then, close the inner 2-way tray.



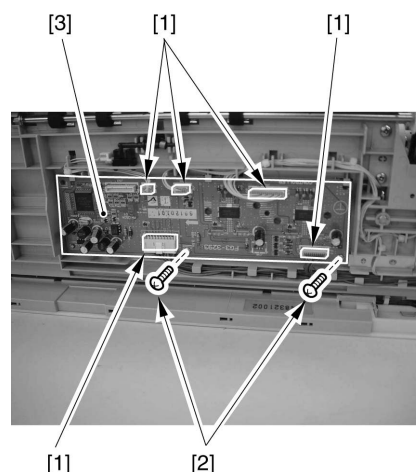
F-4-143

- 6) Detach the inner 2 way tray.

4.4.9.4 Removing the Inner 2-Way Controller PCB

0001-1322

- 1) Disconnect the 5 connectors [1], and remove the 2 screws [2]; then, detach the inner 2-way controller PCB [3].



F-4-144

Chapter 5 Maintenance

Contents

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5.1 Maintenance and Inspection

5.1.1 Periodically Replaced Parts

5.1.1.1 Periodically Replaced Parts

0001-8522

The Inner 2-Way Tray-C1 does not have parts that require periodical replacement.

5.1.2 Durables

5.1.2.1 Durables

0001-8565

The Inner 2-Way Tray-C1 does not have parts that are classified as durable components.

5.1.3 Periodical Servicing

5.1.3.1 Scheduled Servicing

0002-7563

 Do not use solvents or oils other than those indicated.

Memo:

The term "interval" used in the table is based on the number of "images."

T-5-1

Unit	Location	Item	Interval	Remarks
Delivery assembly	reversing roller	clean	60,000	
	scraping ring	clean	60,000	
	No. 2 delivery roller	clean	60,000	

 The values in the table are estimates only, and are subject to change depending on future data.

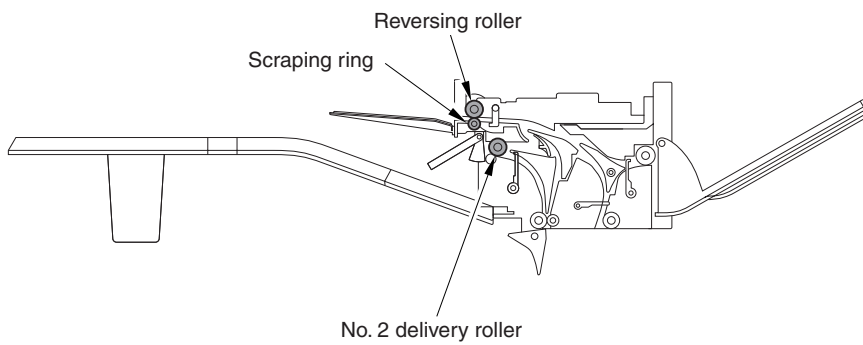
5.1.3.2 Points to Note About Scheduled Servicing

0002-7565

Unless otherwise indicated, use lint-free paper and alcohol for cleaning.



- if you used solvent, be sure that the part has become fully dry before putting it back to the machine.
 - unless specifically so indicated, do not use water (moist cloth) for cleaning.
 - be sure to provide scheduled servicing at specific intervals.
-



F-5-1

Nov 13 2003

Canon