

Service Manual

Finisher, Sorter, Delivery Tray
Inner 2 Way Tray-E1

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."

Contents

Chapter 1 Specifications

1.1 Product Specifications	1- 1
1.1.1 Specifications	1- 1
1.2 Names of Parts	1- 1
1.2.1 Arrangement of Rollers and Sensors	1- 1

Chapter 2 Functions

2.1 Feeding/Delivery	2- 1
2.1.1 Controlling Delivery Operation	2- 1
2.2 Detecting Jams	2- 1
2.2.1 Delay Jam in Delivery Assembly (Paper Leading Edge Jam at Delivery Sensor/Wound Paper Jam at Fixing Assembly)	2- 1
2.2.2 Stationary Jam in Delivery Assembly (Paper Trailing Edge Stationary Jam at Delivery Sensor/ Stationary Jam at Delivery Sensor)	2- 1

Chapter 3 Parts Replacement Procedure

3.1 Removing from the Host Machine	3- 1
3.1.1 Inner 2 Way Tray	3- 1
3.1.1.1 Removing the Drum Unit	3- 1
3.1.1.2 Removing the rear cover	3- 1
3.1.1.3 Removing the lower-right cover	3- 1
3.1.1.4 Removing the upper-right cover	3- 1
3.1.1.5 Removing the delivery tray	3- 1
3.1.1.6 Removing the front-left cover	3- 1
3.1.1.7 Removing the delivery assembly top cover	3- 1
3.1.1.8 Removing the delivery assembly cover	3- 1
3.1.1.9 Removing the rear cover	3- 2
3.1.1.10 Removing the inner 2-way tray	3- 2

Chapter 4 Maintenance

4.1 Maintenance and Inspection	4- 1
4.1.1 Periodically Replaced Parts	4- 1
4.1.1.1 Periodically Replaced Parts	4- 1
4.1.2 Durables	4- 1
4.1.2.1 Durables	4- 1
4.1.3 Periodical Servicing	4- 1
4.1.3.1 Periodical Servicing	4- 1

Chapter 5 Error Code

Contents

5.1 Jam Codes 5- 1
5.1.1 Jam Codes 5- 1

Chapter 1 Specifications

Contents

1.1 Product Specifications	1-1
1.1.1 Specifications	1-1
1.2 Names of Parts	1-1
1.2.1 Arrangement of Rollers and Sensors	1-1

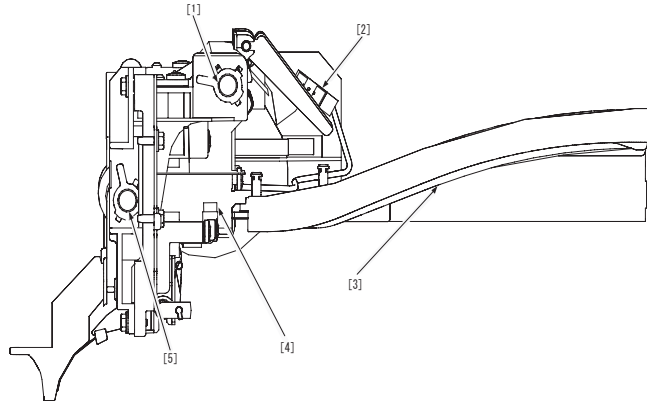
1.1 Product Specifications

1.1.1 Specifications

T-1-1			
Item		Description	Remarks
Number of bins		1-bin + delivery tray of the host machine	
Delivery method		Face-down	
Loadable paper		PPC/Recycled paper A3/LDR to A5/STMT	60g/m2 to 90g/m2
Number of loadable sheets	Half	100Sheets	A4/B5/LTR
	Large	50Sheets	A3/B4/LDR/LGL
	Half-R	50Sheets	A4R/B5R/LTRR
	Small	50Sheets	A5/A5R/STMT/STMTR
Environmental measures		Not provided	
Power supply		Not provided	Not provided (Power is supplied from host machine.)
Dimensions		485.5mmx451mmx151.2mm(WxDxH)	
Weight		1.5kg	

1.2 Names of Parts

1.2.1 Arrangement of Rollers and Sensors



F-1-1

- [1] delivery roller 2
- [2] full detection sensor 2 (SR1101)
- [3] delivery tray 2
- [4] delivery sensor 2 (SR1102)
- [5] delivery roller 2

Chapter 2 Functions

Contents

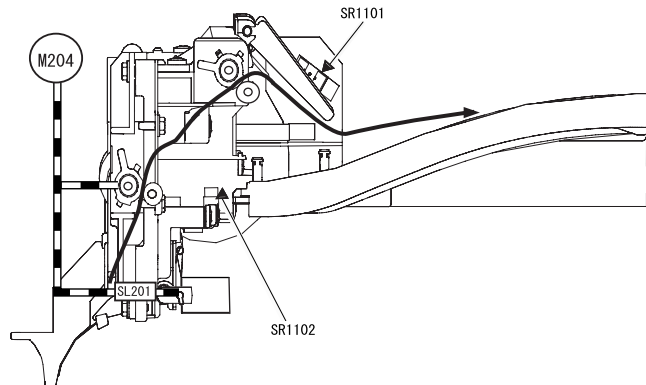
2.1 Feeding/Delivery	2-1
2.1.1 Controlling Delivery Operation.....	2-1
2.2 Detecting Jams	2-1
2.2.1 Delay Jam in Delivery Assembly (Paper Leading Edge Jam at Delivery Sensor/Wound Paper Jam at Fixing Assembly).....	2-1
2.2.2 Stationary Jam in Delivery Assembly (Paper Trailing Edge Stationary Jam at Delivery Sensor/Stationary Jam at Delivery Sensor).....	2-1

2.1 Feeding/Delivery

2.1.1 Controlling Delivery Operation

Paper is delivered to the delivery 2 slot as follows:

When paper is fed from the host's fixing assembly and its leading edge reaches the delivery sensor (SR1102), the 2way delivery solenoid (SL201) goes ON to switch the paper path to the delivery 2 slot. The paper being moved is detected by the delivery sensor (SR1102). The volume of paper in the delivery tray is monitored by the full detection sensor 2 (SR1101)



F-2-1

2.2 Detecting Jams

2.2.1 Delay Jam in Delivery Assembly (Paper Leading Edge Jam at Delivery Sensor/Wound Paper Jam at Fixing Assembly)

Paper Leading Edge Jam at Delivery Sensor

The delivery sensor cannot detect presence of paper within the prescribed time after the registration clutch has been turned on.

T-2-1

Sensor/Registration clutch

 Delivery sensor (SR203)

Registration clutch (CL203)

2.2.2 Stationary Jam in Delivery Assembly (Paper Trailing Edge Stationary Jam at Delivery Sensor/Stationary Jam at Delivery Sensor)

Paper Trailing Edge Stationary Jam at Delivery Sensor

The delivery sensor cannot detect absence of paper within the prescribed time after the registration sensor has been turned off.

T-2-2

Sensor

 Registration sensor (SR209)

Delivery sensor (SR203)

Stationary Jam at Delivery Sensor

The delivery sensor cannot detect absence of paper within the prescribed time after it has detected the leading edge of paper.

T-2-3

Sensor

 Delivery sensor (SR203)

Chapter 3 Parts Replacement Procedure

Contents

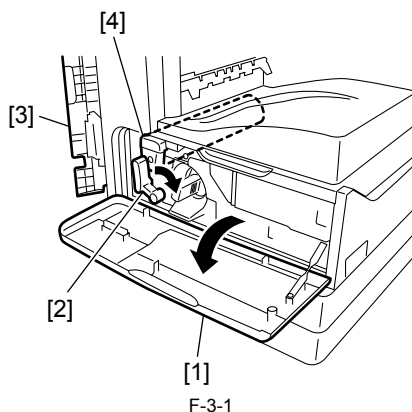
3.1 Removing from the Host Machine	3-1
3.1.1 Inner 2 Way Tray	3-1
3.1.1.1 Removing the Drum Unit	3-1
3.1.1.2 Removing the rear cover	3-1
3.1.1.3 Removing the lowerl-right cover	3-1
3.1.1.4 Removing the upper-right cover.....	3-1
3.1.1.5 Removing the delivery tray	3-1
3.1.1.6 Removing the front-left cover	3-1
3.1.1.7 Removing the delivery assembly top cover.....	3-1
3.1.1.8 Removing the delivery assembly cover.....	3-1
3.1.1.9 Removing the rear cover	3-2
3.1.1.10 Removing the inner 2-way tray	3-2

3.1 Removing from the Host Machine

3.1.1 Inner 2 Way Tray

3.1.1.1 Removing the Drum Unit

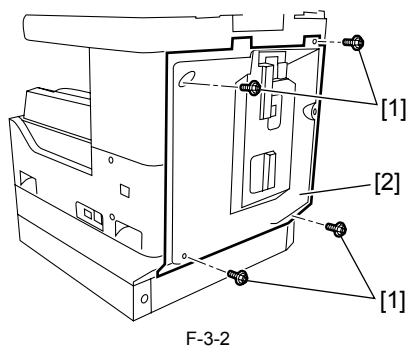
- 1) Open the front cover [1].
- 2) Turn the developing assembly locking lever [2] clockwise to open the left door [3].
- 3) Draw out the drum unit [4].



- When attaching or detaching the drum unit, open the left door fully to prevent the damage to the drum unit.
- To prevent exposure of the drum, cover the drum unit with a few sheets of paper and place it in a safe place.

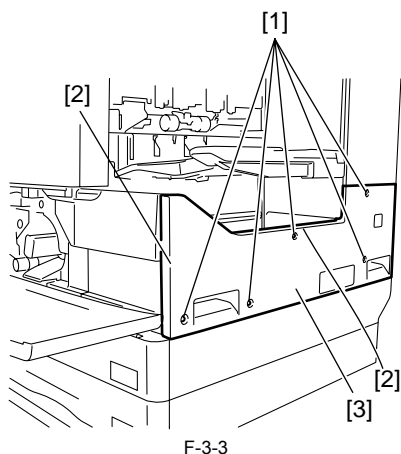
3.1.1.2 Removing the rear cover

- 1) Remove the four RS tightening screws (M3 x 8) [1], and then detach the rear cover [2].



3.1.1.3 Removing the lower-right cover

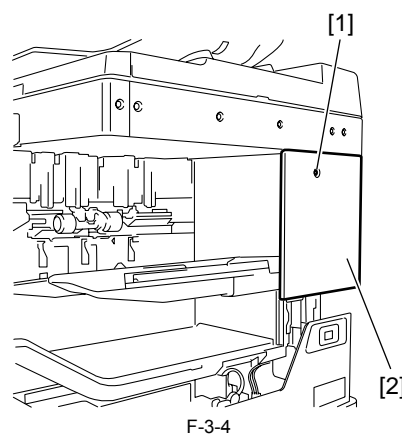
- 1) Remove the five RS tightening screws (M3 x 8) [1]. Release the two hooks [2], and then detach the lower-right cover [3].



3.1.1.4 Removing the upper-right cover

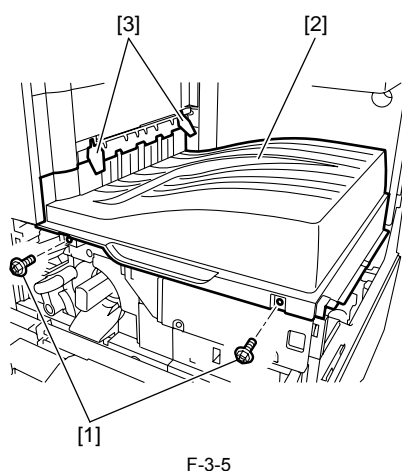
- 1) Remove the RS tightening screw (M3 x 8) [1], and then detach the upper-

right cover [2].



3.1.1.5 Removing the delivery tray

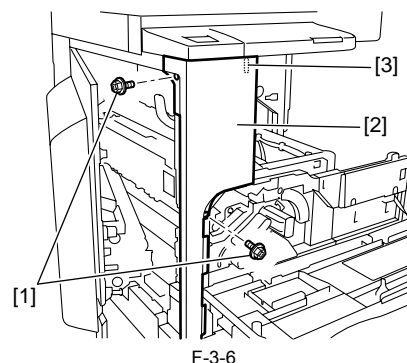
- 1) Remove the two RS tightening screws (M3 x 8) [1], and then remove the delivery tray [2].



- When removing or reinstalling the delivery tray, take care not to damage the paper holder [3].

3.1.1.6 Removing the front-left cover

- 1) Draw out the cassette slightly forward
- 2) Remove the two RS tight screws (M3x8) [1], and then detach the front-left cover [2].



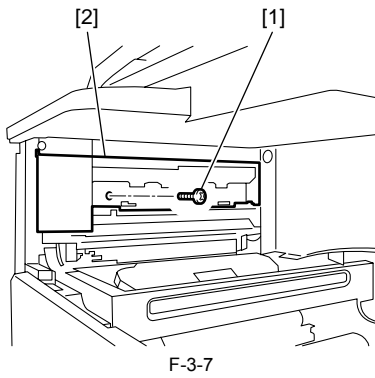
- Take note of the hook [3] inside the front-left cover when removing it.

3.1.1.7 Removing the delivery assembly top cover

- 1) Remove the RS tightening screw (M3 x 8) [1], and then detach the delivery assembly top cover [2].

3.1.1.8 Removing the delivery assembly cover

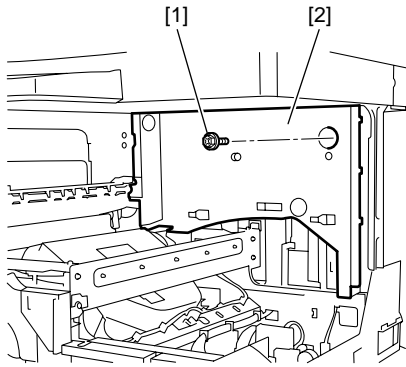
- 1) Remove the P tightening screws (M4 x 10) [1], and then detach the delivery assembly cover [2].



F-3-7

3.1.1.9 Removing the rear cover

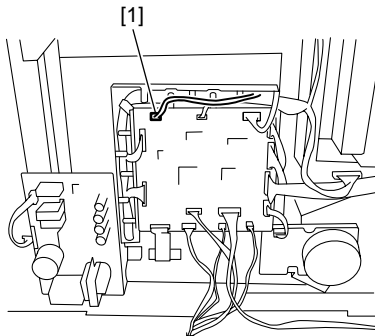
1) Remove the RS tightening screw (M3 x 8) [1], and then detach the rear cover [2].



F-3-8

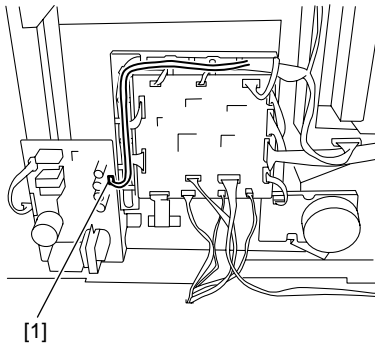
3.1.1.10 Removing the inner 2-way tray

1) Disconnect the connector (J201) [1] of the full sensor from the DC controller PCB.



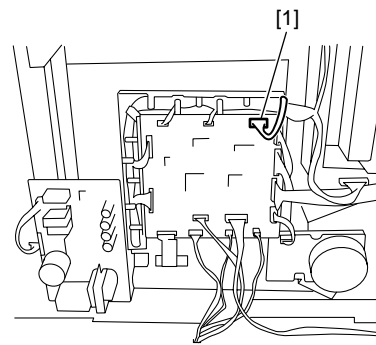
F-3-9

2) Remove the inner 2-way tray harness from the guide, and then disconnect the connector (J51) [1] from the optional power supply PCB.



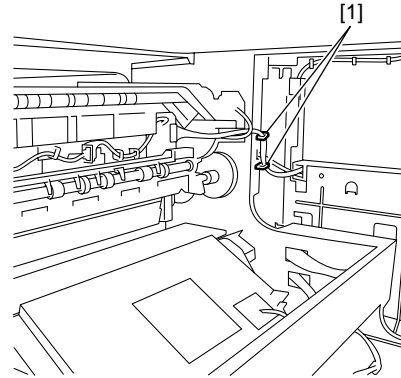
F-3-10

3) Remove the inner 2-way tray harness from the guide, and then disconnect the connector (J204) [1] from the DC controller PCB.



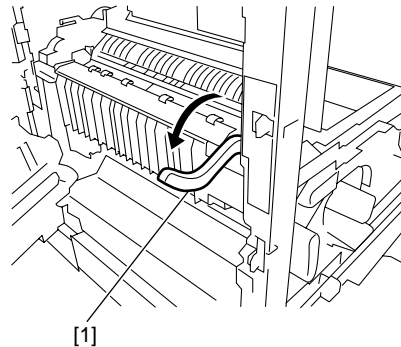
F-3-11

4) Remove the inner 2-way tray harness from the two wire saddles [1].



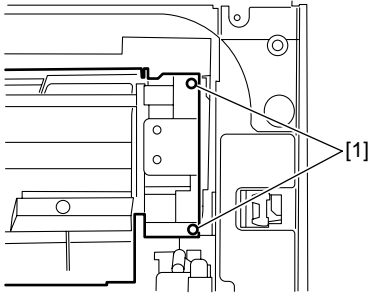
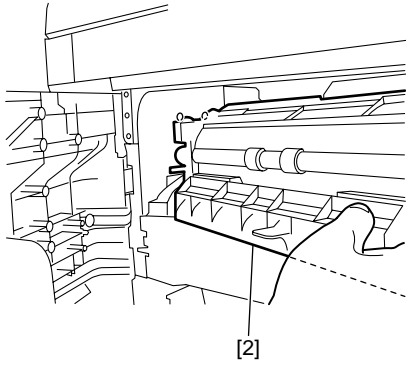
F-3-12

5) Turn down the fusing pressure release lever.



F-3-13

6) Remove the two TP binding screws (M3 x 6) [1], and then remove the inner 2-way tray [2].



F-3-14

Chapter 4 Maintenance

Contents

4.1 Maintenance and Inspection.....	4-1
4.1.1 Periodically Replaced Parts.....	4-1
4.1.1.1 Periodically Replaced Parts.....	4-1
4.1.2 Durables.....	4-1
4.1.2.1 Durables.....	4-1
4.1.3 Periodical Servicing.....	4-1
4.1.3.1 Periodical Servicing.....	4-1

4.1 Maintenance and Inspection

4.1.1 Periodically Replaced Parts

4.1.1.1 Periodically Replaced Parts

The machine does not have parts that must be replaced on a periodical basis.

4.1.2 Durables

4.1.2.1 Durables

This machine does not have items that may be classified as durables.

4.1.3 Periodical Servicing

4.1.3.1 Periodical Servicing

The machine does not have items that must be serviced on a periodical basis.

Chapter 5 Error Code

Contents

5.1 Jam Codes.....	5-1
5.1.1 Jam Codes.....	5-1

5.1 Jam Codes

5.1.1 Jam Codes

T-5-1

Code	Name	Sensor No.	Description
010e	Delay jam at No.2 delivery section	SR1101	The No.2 delivery sensor does not detect presence of paper within the specified time after turning on of the fixing delivery sensor.
0212	Stationary jam at No.2 delivery section	SR1101	Absence of paper is not detected within the specified time after turning on of the No.2 delivery sensor.

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