

Service Manual

Paper Feeder

Canon

Jan 20 2005

Application

This manual has been issued by Canon Inc. for qualified persons to learn technical theory, installation, maintenance, and repair of products. This manual covers all localities where the products are sold. For this reason, there may be information in this manual that does not apply to your locality.

Corrections

This manual may contain technical inaccuracies or typographical errors due to improvements or changes in products. When changes occur in applicable products or in the contents of this manual, Canon will release technical information as the need arises. In the event of major changes in the contents of this manual over a long or short period, Canon will issue a new edition of this manual.

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Caution

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

Symbols Used

This documentation uses the following symbols to indicate special information:

Symbol	Description
	Indicates an item of a non-specific nature, possibly classified as Note, Caution, or Warning.
	Indicates an item requiring care to avoid electric shocks.
	Indicates an item requiring care to avoid combustion (fire).
	Indicates an item prohibiting disassembly to avoid electric shocks or problems.
	Indicates an item requiring disconnection of the power plug from the electric outlet.
 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 PRODUCT DESCRIPTION

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1.1 Product Specifications

1.1.1 Product Specifications

0007-4178

T-1-1

Item	Specifications	Remarks
Paper type	plain paper (64 to 80 g/m ²), heavy paper (81 to 105 g/m ²), recycled paper, colored paper	
Paper size	LTR (vertical), LGL (vertical), A4 (vertical), Executive (vertical), A5 (vertical), B5 (vertical)	
Paper stack	250 sheets (approx.; 64 g/m ²)	
Control panel	none (input from host keys)	
Display	none (input from host keys)	
Power supply	none (supplied by host)	
Dimensions	482(W) × 451(D) × 94(H) [mm]	
Weight	2.5 kg (approx.; including cassettes)	

1.1.2 Product Specifications

0007-9916

T-1-2

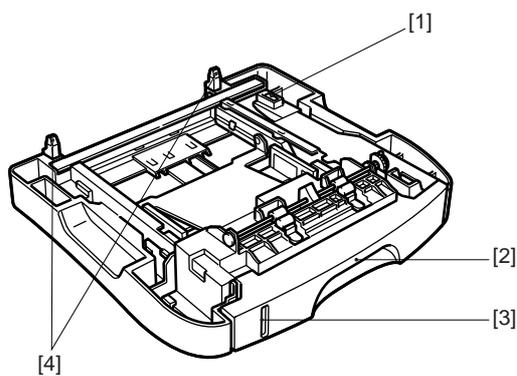
Item	Specifications	Remarks
Paper type	plain paper (64 to 80 g/m ²), heavy paper (81 to 105 g/m ²), recycled paper, colored paper	
Paper size	LTR (vertical), LGL (vertical), A4 (vertical), Executive (vertical), A5 (vertical), B5 (vertical)	
Paper stack	250 sheets (approx.; 64 g/m ²)	
Control panel	none (input from host keys)	
Display	none (input from host keys)	
Power supply	none (supplied by host)	

Item	Specifications	Remarks
Dimensions	482(W) × 451(D) × 94(H) [mm]	
Weight	2.5 kg (approx.; including cassettes)	

1.2 Name of Parts

1.2.1 External View

0007-4180



F-1-1

T-1-3

[1]Intermediate connector

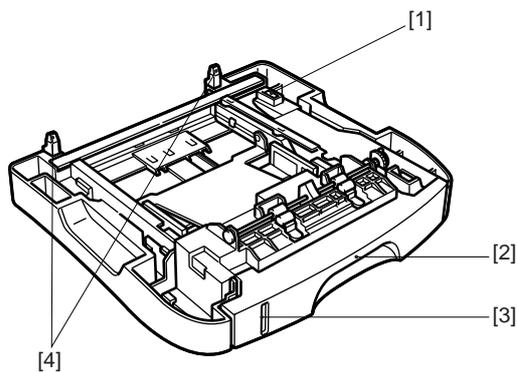
[3]Paper level mark

[2]250-sheet cassette

[4]Positioning pins

1.2.2 External View

0007-9917



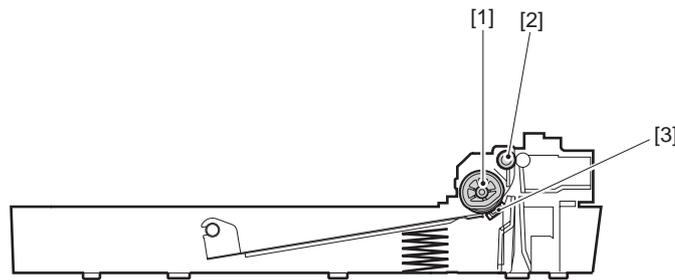
F-1-2

T-1-4

- [1]Intermediate connector
- [2]250-sheet cassette
- [3]Paper level mark
- [4]Positioning pins

1.2.3 Cross Sectional View

0007-4181



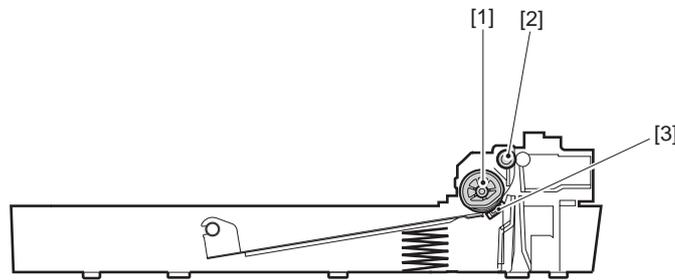
F-1-3

T-1-5

- [1]Pick-up roller
- [2]Feed roller
- [3]Separation pad

1.2.4 Cross Sectional View

0007-9918



F-1-4

T-1-6

[1]Pick-up roller

[2]Feed roller

[3]Separation pad

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2.1 Basic Construction

2.1.1 Outline

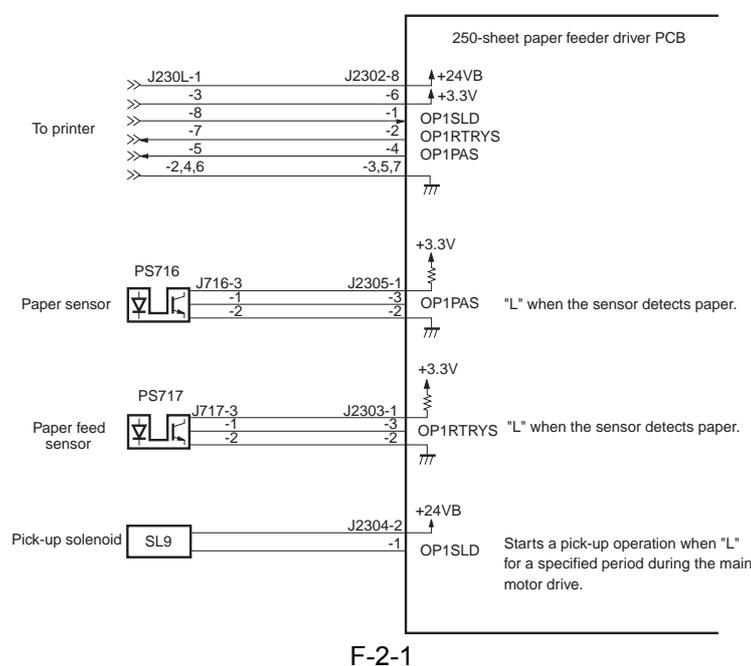
0007-4182

The paper feeder has functions of picking up the paper set in a cassette and feeding it into the printer.

The DC controller in the printer controls the operation sequences of the feeder. It sends the DRIVE signal to feeder driver circuit as required. This allows the feeder driver circuits to drive solenoids. Feeder driver circuit has detection sensors to perform paper present detection or paper feed detection.

+24 VDC and +3.3 V are supplied to the 250-sheet paper feeder from the printer.

The flow of input/output signals of the feeder driver PCB is indicated next.



2.1.2 Outline

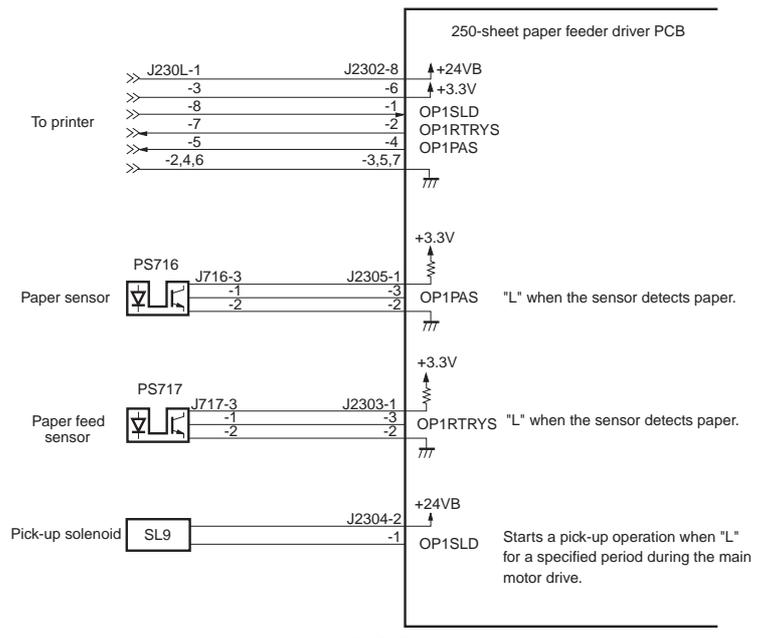
0007-9919

The paper feeder has functions of picking up the paper set in a cassette and feeding it into the printer.

The DC controller in the printer controls the operation sequences of the feeder. It sends the DRIVE signal to feeder driver circuit as required. This allows the feeder driver circuits to drive solenoids. Feeder driver circuit has detection sensors to perform paper present detection or paper feed detection.

+24 VDC and +3.3 V are supplied to the 250-sheet paper feeder from the printer.

The flow of input/output signals of the feeder driver PCB is indicated next.



F-2-2

2.2 Pick-Up/Feed System

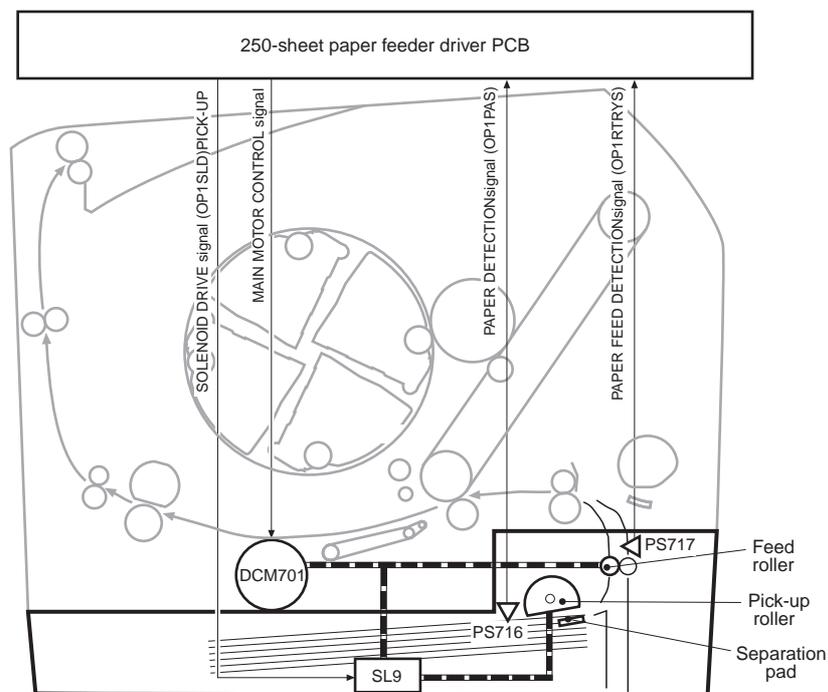
2.2.1 Outline

0007-5304

The paper feeder has functions of picking up the paper set in the cassette and feeding it into the printer. Pick-up/feed operation for the 250-sheet paper feeder is discussed below.

The pick-up/feed operation in the 250-sheet paper feeder is described in the following:

- 1) After receiving a print command from the interface controller, the DC controller sends the PICK-UP SOLENOID DRIVE (OP1SLD) signal to the 250-sheet paper feeder driver circuit.
- 2) The driver circuit lets the pick-up solenoid (SL9) go on after receiving the OP1SLD signal from the DC controller. This allows the drive of the main motor in the printer to transmit to the pick-up roller. Then the pick-up roller rotates.
- 3) The pick-up roller makes one rotation by the drive of the SL9 and picks up paper in the cassette. Then paper is sent into the printer after multiple-fed paper are cleared by the separation pad.



F-2-3

DCM701: Main motor (printer)

SL9: Pick-up solenoid (250-sheet paper feeder)

PS716: Paper sensor (250-sheet paper feeder)

PS717: Paper feed sensor (250-sheet paper feeder)

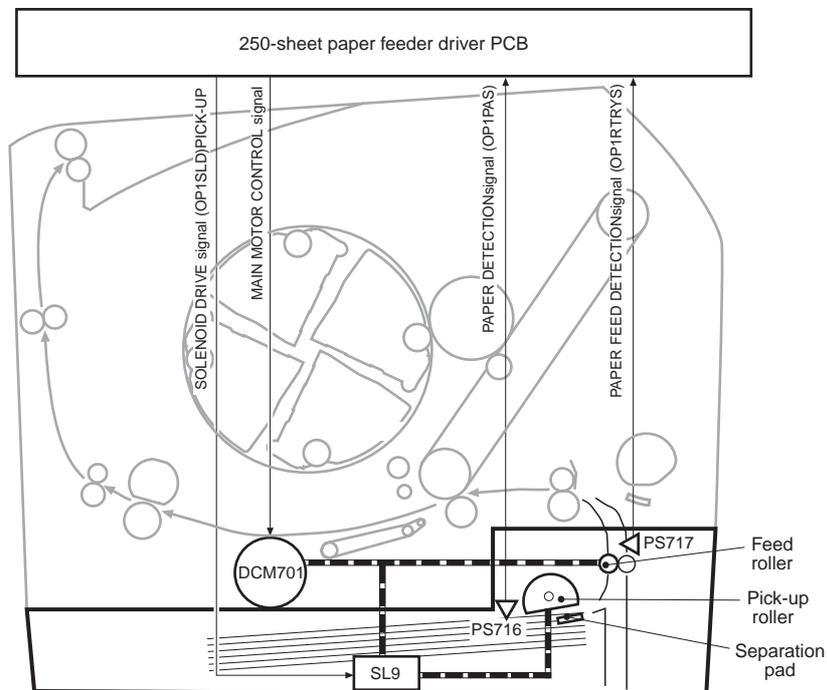
2.2.2 Outline

0007-9920

The paper feeder has functions of picking up the paper set in the cassette and feeding it into the printer. Pick-up/feed operation for the 250-sheet paper feeder is discussed below.

The pick-up/feed operation in the 250-sheet paper feeder is described in the following:

- 1) After receiving a print command from the video controller, the DC controller sends the PICK-UP SOLENOID DRIVE (OP1SLD) signal to the 250-sheet paper feeder driver circuit.
- 2) The driver circuit lets the pick-up solenoid (SL9) go on after receiving the OP1SLD signal from the DC controller. This allows the drive of the main motor in the printer to transmit to the pick-up roller. Then the pick-up roller rotates.
- 3) The pick-up roller makes one rotation by the drive of the SL9 and picks up paper in the cassette. Then paper is sent into the printer after multiple-fed paper are cleared by the separation pad.



F-2-4

2.3 Detection Jams

2.3.1 Outline

0007-5305

The machine is equipped with the following paper sensor used to find out the presence/absence of paper or to see if paper is moving normally inside it:

- * paper feed sensor (PS717)

To find a jam, the machine checks to see the presence/absence of paper over a specific sensor at such times as programmed in the CPU on the DC controller. In the event of a jam, the CPU suspends the ongoing machine operation, and communicates the presence of a jam to the interface controller. The machine identifies the following types of jams:

- * pickup delay jam
- * machine residual jam

2.3.2 Outline

0008-0045

The machine is equipped with the following paper sensor used to find out the presence/absence of paper or to see if paper is moving normally inside it:

- * paper feed sensor (PS717)

To find a jam, the machine checks to see the presence/absence of paper over a specific sensor at such times as programmed in the CPU on the DC controller. In the event of a jam, the CPU suspends the ongoing machine operation, and communicates the presence of a jam to the video controller. The machine identifies the following types of jams:

- * pickup delay jam
- * machine residual jam

2.3.3 Pickup Delay Jam

0007-5307

The leading edge of paper fails to reach the paper feed sensor (PS717) within a specific period of time ($T=1.7$ sec) after pickup starts (i.e., the pickup solenoid goes on). The machine identifies the condition as being a pickup delay jam.

2.3.4 Pickup Delay Jam

0008-0046

The leading edge of paper fails to reach the paper feed sensor (PS717) within a specific period of time ($T=1.7$ sec) after pickup starts (i.e., the pickup solenoid goes on). The machine identifies the condition as being a pickup delay jam.

2.3.5 Machine Residual Jam

0007-5308

At time of power-on or during recovery from a sleep state, or when the door is closed after a jam, the paper feed sensor (PS717) detects the presence of paper. The CPU identifies the condition as being a machine residual jam.

2.3.6 Machine Residual Jam

0008-0047

At time of power-on or during recovery from a sleep state, or when the door is closed after a jam, the paper feed sensor (PS717) detects the presence of paper. The CPU identifies the condition as being a machine residual jam.

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3.1 Document Feeding System

3.1.1 Separation Pad

3.1.1.1 Removing the Cassette [0007-5311](#)

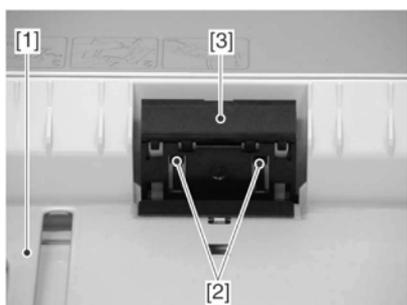
- 1) Hold the grip of the cassette, and slide out the cassette.

3.1.1.2 Removing the Cassette [0008-0049](#)

- 1) Hold the grip of the cassette, and slide out the cassette.

3.1.1.3 Removing separation pad [0007-5313](#)

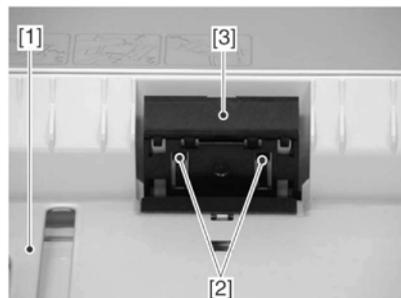
- 1) While pushing down the holding plate [1], free the 2 claws [2].
- 2) Slide the separation pad [3] upward to detach it from the cassette.



F-3-1

3.1.1.4 Removing separation pad [0008-0050](#)

- 1) While pushing down the holding plate [1], free the 2 claws [2].
- 2) Slide the separation pad [3] upward to detach it from the cassette.



F-3-2

3.1.2 Pickup Roller

3.1.2.1 Removing the Cassette [0007-5309](#)

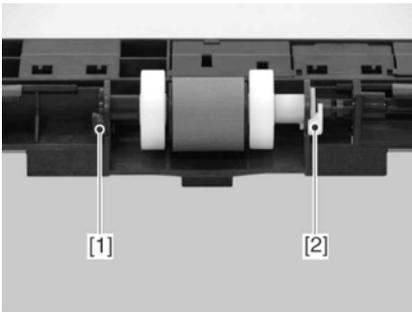
- 1) Hold the grip of the cassette, and slide out the cassette.

3.1.2.2 Removing the Cassette [0008-0051](#)

- 1) Hold the grip of the cassette, and slide out the cassette.

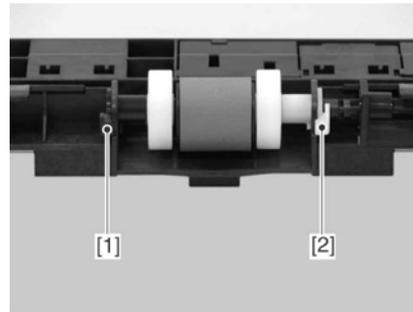
3.1.2.3 Removing the pick-up roller [0007-5315](#)

- 1) While lifting the release tab (left) [1] slightly, turn it about 90 deg toward the rear; then, slide the release tab (left) toward the left to detach it from the machine.
- 2) While lifting the release tab (right) [2] slightly, turn it about 90 deg toward the rear; then, slide it fully toward the right.



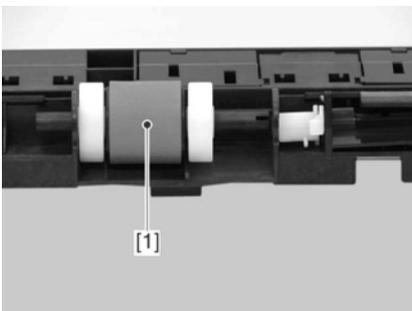
F-3-3

3) Slide the pickup roller [1] fully toward the left; then, slide it upward to the left to detach it from the machine.

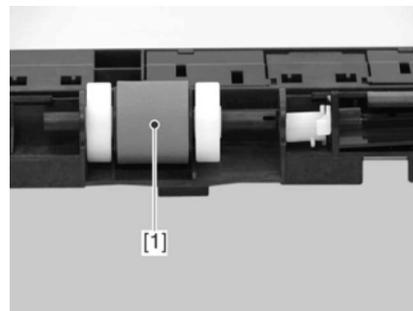


F-3-5

3) Slide the pickup roller [1] fully toward the left; then, slide it upward to the left to detach it from the machine.



F-3-4



F-3-6

3.1.2.4 Removing the pick-up roller

0008-0052

- 1) While lifting the release tab (left) [1] slightly, turn it about 90 deg toward the rear; then, slide the release tab (left) toward the left to detach it from the machine.
- 2) While lifting the release tab (right) [2] slightly, turn it about 90 deg toward the rear; then, slide it fully toward the right.

3.2 Electrical System

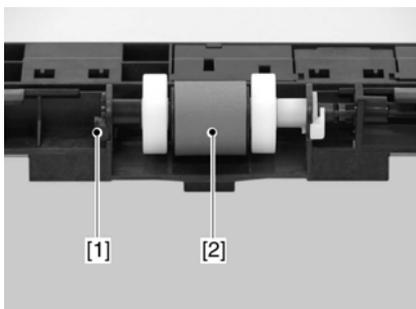
3.2.1 Cassette Paper Sensor

3.2.1.1 Removing the Cassette [0007-5435](#)

- 1) Hold the grip of the cassette, and slide out the cassette.

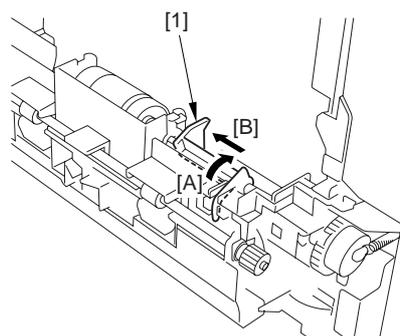
3.2.1.2 Removing the Paper Sensor [0007-5434](#)

- 1) While lifting the release tab (left) [1] slightly, turn it about 90 deg toward the rear; then, slide it toward the left to detach it from the machine.
- 2) Slide the pickup roller [2] fully toward the left.



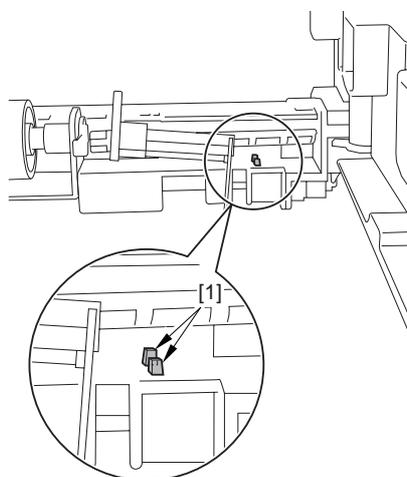
F-3-7

- 3) Turn the sensor lever [1] in the direction of A; then, while lifting the lever, slide it fully in the direction of B.



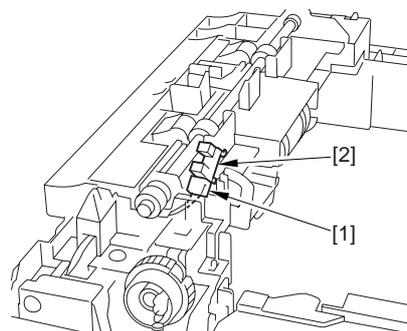
F-3-8

- 4) Free the 2 claws [1] of the paper sensor.



F-3-9

- 5) Disconnect the connector [1], and detach the paper sensor [2] from the machine.



F-3-10

3.2.1.3 Removing the Cassette [0008-0053](#)

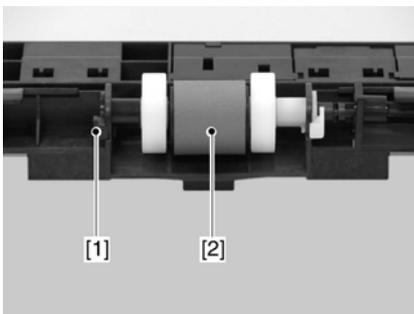
- 1) Hold the grip of the cassette, and slide out the cassette.

3.2.1.4 Removing the Paper

Sensor

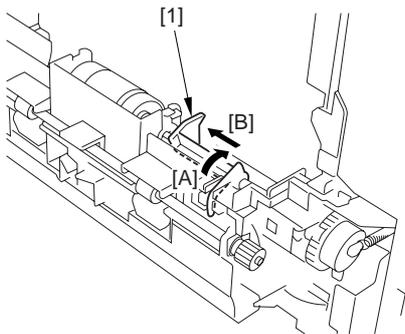
0008-0054

- 1) While lifting the release tab (left) [1] slightly, turn it about 90 deg toward the rear; then, slide it toward the left to detach it from the machine.
- 2) Slide the pickup roller [2] fully toward the left.



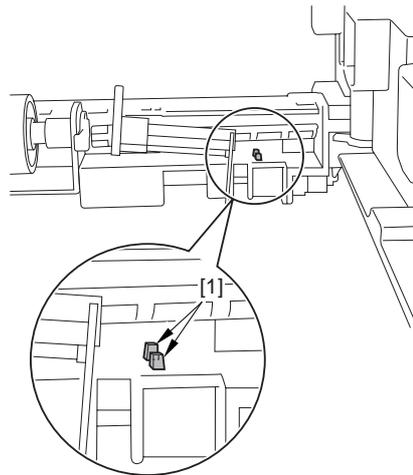
F-3-11

- 3) Turn the sensor lever [1] in the direction of A; then, while lifting the lever, slide it fully in the direction of B.



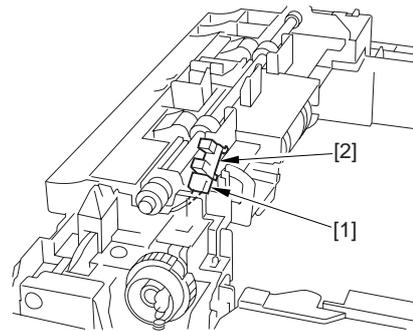
F-3-12

- 4) Free the 2 claws [1] of the paper sensor.



F-3-13

- 5) Disconnect the connector [1], and detach the paper sensor [2] from the machine.



F-3-14

3.2.2 Feed Sensor

3.2.2.1 Removing the Cassette

0007-5413

- 1) Hold the grip of the cassette, and slide out the cassette.

3.2.2.2 Removing the Cassette

0008-0056

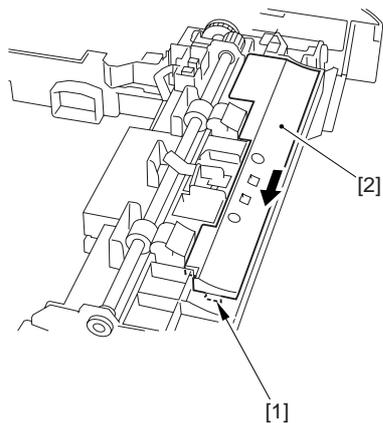
- 1) Hold the grip of the cassette, and slide out the cassette.

3.2.2.3 Removing the Feed

Sensor

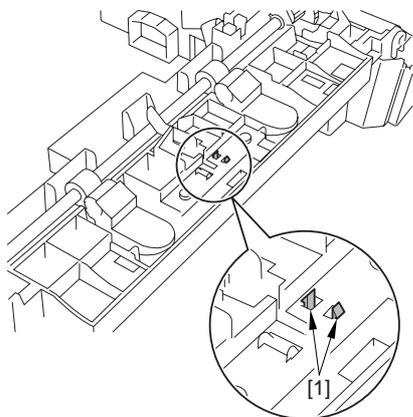
0007-5414

1) Free the claw [1], and slide the center frame cover [2] in the direction of the arrow to detach it from the machine.



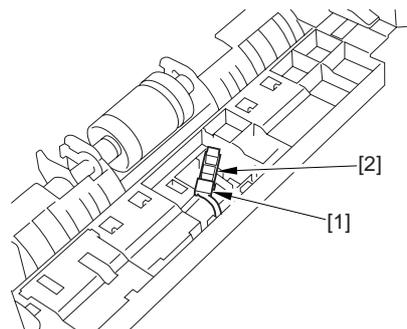
F-3-15

2) Free the 2 claws [1] of the feed sensor.



F-3-16

3) Disconnect the connector [1], and detach the feed sensor [2] from the machine.



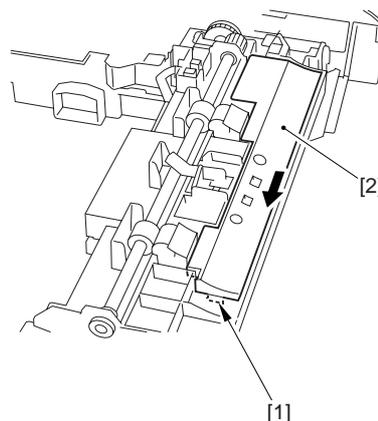
F-3-17

3.2.2.4 Removing the Feed

Sensor

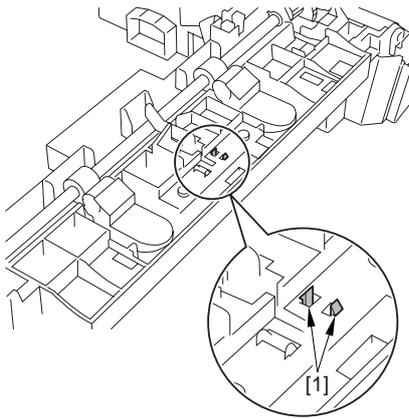
0008-0057

1) Free the claw [1], and slide the center frame cover [2] in the direction of the arrow to detach it from the machine.



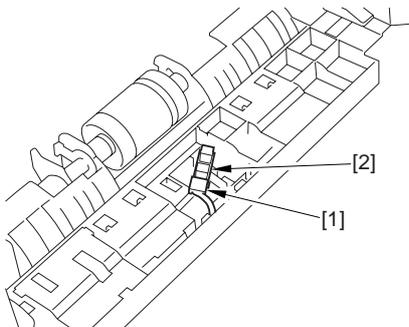
F-3-18

2) Free the 2 claws [1] of the feed sensor.



F-3-19

3) Disconnect the connector [1], and detach the feed sensor [2] from the machine.



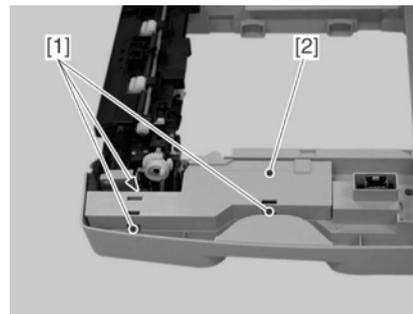
F-3-20

3.2.3 Feed Driver PCB

3.2.3.1 Removing the PCB Cover

[0007-6256](#)

1) Free the 3 claws [1], and slide the PCB cover [2] to the left. Thereafter, detach the PCB cover.

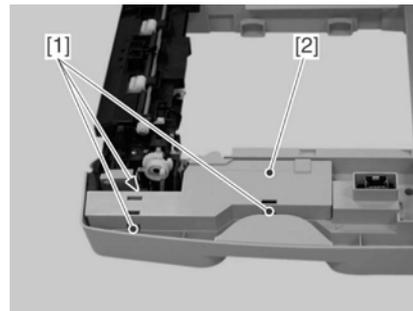


F-3-21

3.2.3.2 Removing the PCB Cover

[0008-0058](#)

1) Free the 3 claws [1], and slide the PCB cover [2] to the left. Thereafter, detach the PCB cover.

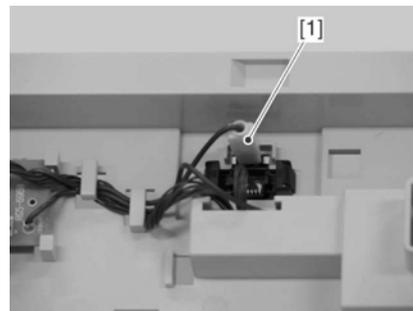


F-3-22

3.2.3.3 Removing the Feed Drive PCB

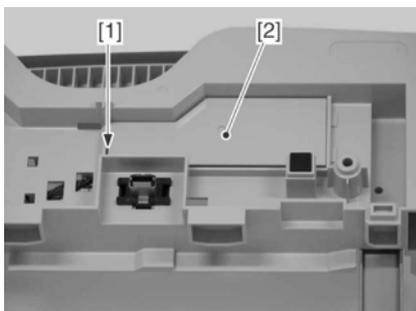
[0007-6257](#)

1) Disconnect the connector [1] used for grounding.



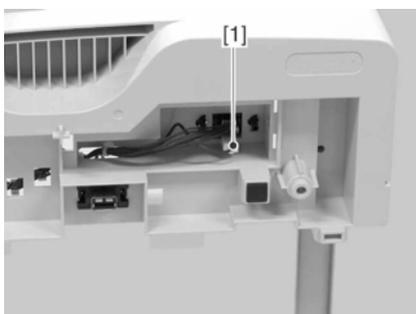
F-3-23

2) Free the claw [1], and slide the connector cover [2] to the left; thereafter, detach the connector cover.



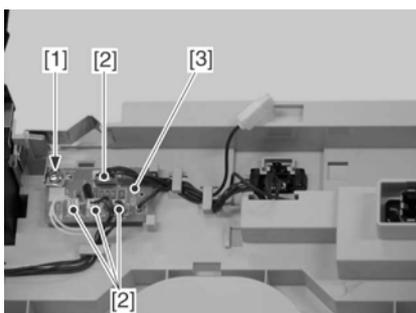
F-3-24

3) Disconnect the connector [1] used for grounding.



F-3-25

4) Remove the screw [1], and disconnect the 5 connectors [2]; then, detach the feed drive PCB [3].

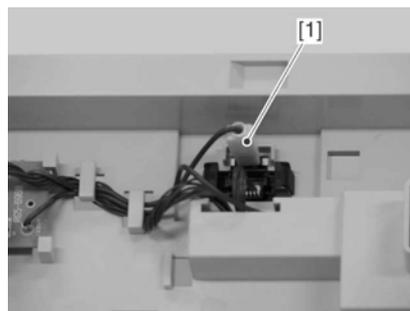


F-3-26

3.2.3.4 Removing the Feed Drive PCB

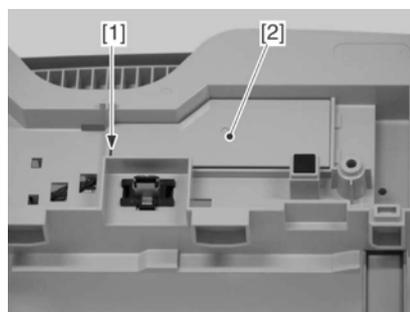
0008-0059

1) Disconnect the connector [1] used for grounding.



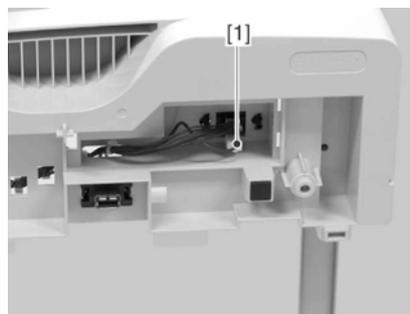
F-3-27

2) Free the claw [1], and slide the connector cover [2] to the left; thereafter, detach the connector cover.



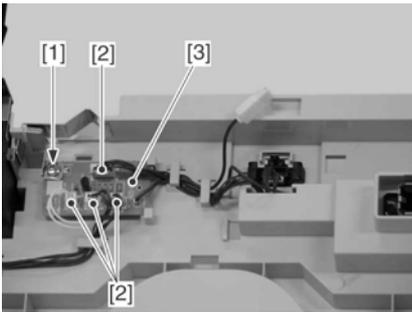
F-3-28

3) Disconnect the connector [1] used for grounding.



F-3-29

4) Remove the screw [1], and disconnect the 5 connectors [2]; then, detach the feed drive PCB [3].



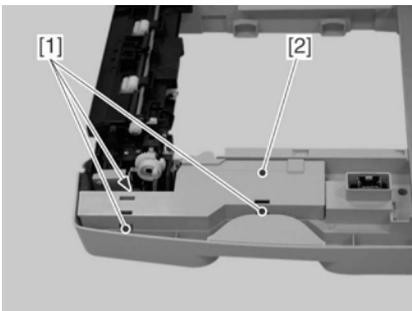
F-3-30

3.2.4 Pickup Solenoid

3.2.4.1 Removing the Pickup Solenoid

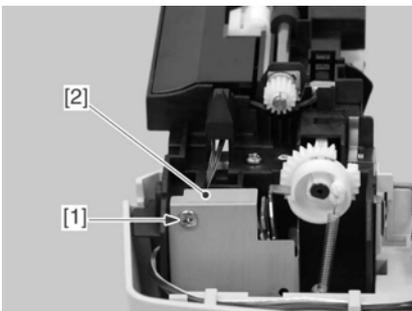
0007-6254

1) Free the 3 claws [1], and slide the PCB cover [2] to the left. Thereafter, detach the PCB cover from the machine.



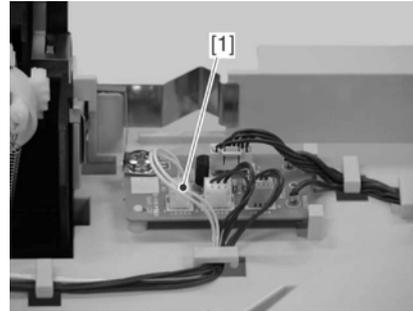
F-3-31

2) Remove the screw [1], and detach the anti-magnetism plate [2] from the machine.



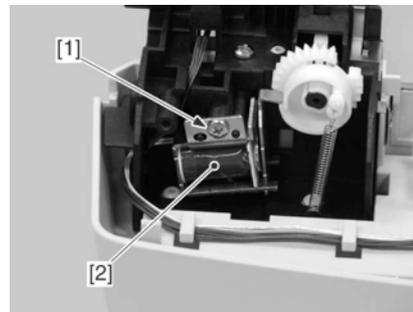
F-3-32

3) Disconnect the connector [1].



F-3-33

4) Remove the screw [1], and detach the pickup solenoid [2] from the machine.

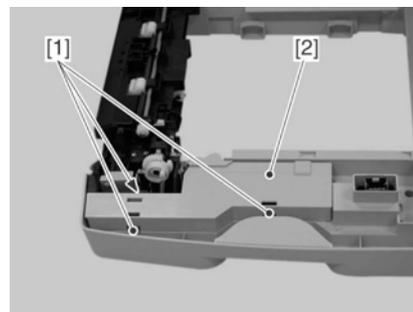


F-3-34

3.2.4.2 Removing the Pickup Solenoid

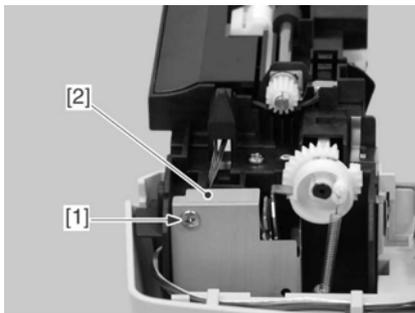
0008-0062

1) Free the 3 claws [1], and slide the PCB cover [2] to the left. Thereafter, detach the PCB cover from the machine.



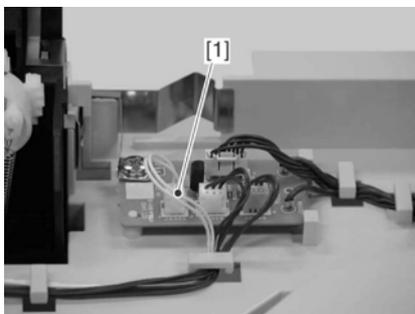
F-3-35

2) Remove the screw [1], and detach the anti-magnetism plate [2] from the machine.



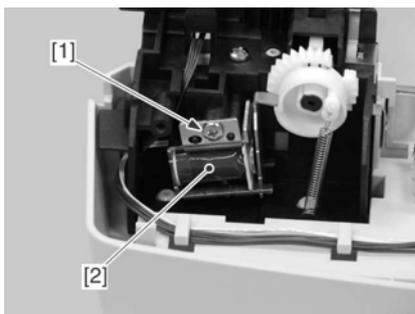
F-3-36

3) Disconnect the connector [1].



F-3-37

4) Remove the screw [1], and detach the pickup solenoid [2] from the machine.



F-3-38

Chapter 4 MAINTENANCE AND INSPECTION

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4.1 Periodically Replaced Parts

4.1.1 Parts Requiring Periodical Replacement

0007-5418

The machine does not have parts that require periodical replacement.

4.1.2 Parts Requiring Periodical Replacement

0008-0064

The machine does not have parts that require periodical replacement.

4.2 Durables

4.2.1 Durables

0007-5419

The machine does not have parts that are designated as durables.

4.2.2 Durables

0008-0065

The machine does not have parts that are designated as durables.

4.3 Periodical Servicing

4.3.1 Items Requiring Scheduled Servicing

0007-5421

The machine does not have items that require scheduled servicing.

4.3.2 Items Requiring Scheduled Servicing

0008-0066

The machine does not have items that require scheduled servicing.

Chapter 5 TROUBLESHOOTING

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5.1 Service Tools

5.1.1 Special Tools

0007-6262

There is no special tools needed to service the machine other than the standard tools set.

5.1.2 Special Tools

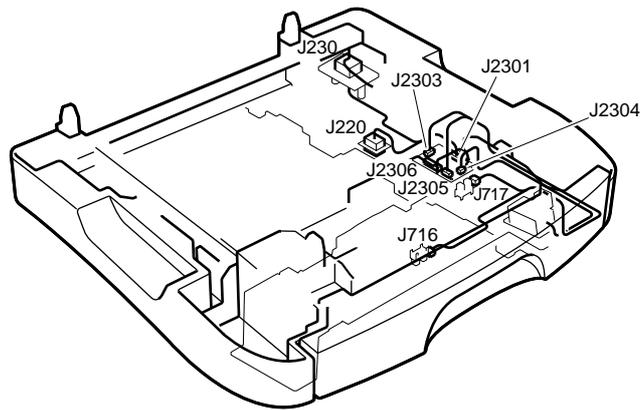
0008-0069

There is no special tools needed to service the machine other than the standard tools set.

5.2 Location of Connectors

5.2.1 Connector Writing Diagram

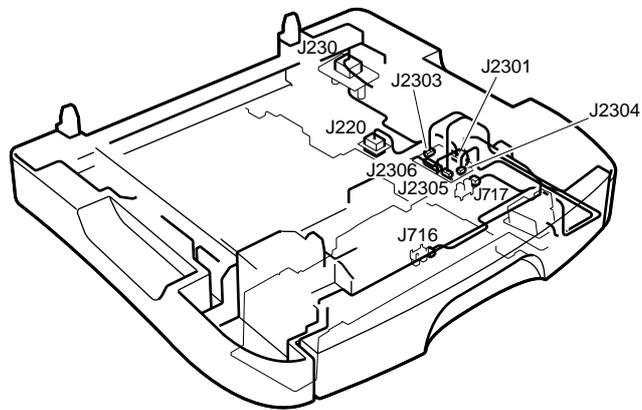
0007-5423



F-5-1

5.2.2 Connector Writing Diagram

0008-0070



F-5-2

Chapter 6 APPENDIX

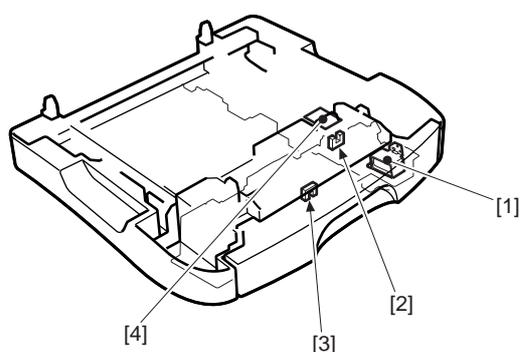
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6.1 Outline of Electrical Components

6.1.1 Outline of Electrical Components

0007-5422



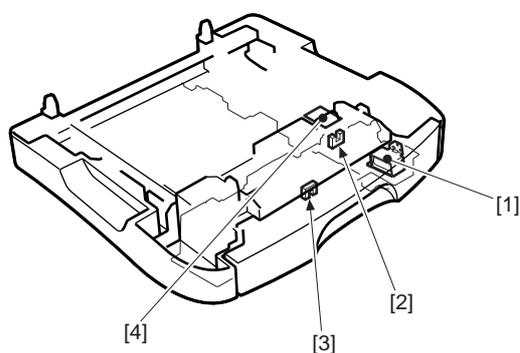
F-6-1

T-6-1

- [1] Pick-up solenoid
- [2] Paper sensor
- [3] Feed sensor
- [4] Feeder driver PCB

6.1.2 Outline of Electrical Components

0008-0068



F-6-2

T-6-2

- [1] Pick-up solenoid
- [2] Paper sensor
- [3] Feed sensor
- [4] Feeder driver PCB

Jan 20 2005

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