

Multi Bypass Tray BY1030
Machine Code: J309

Field Service Manual

9 April 2010

Safety and Symbols

The following icons are used in descriptions of disassembly procedures.










Symbol	What it means
	Bushings
	C-ring
	Connector
	E-ring
	Harness clamp
	Pointer
	Screw
	Hook
	Spring

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1. Replacement and Adjustment

Before You Begin...

1

Check the order of removal before you disassemble the bypass tray unit in order to clean or replace a part.

No.	Item	Preparation
1	Top cover	None
2	Bottom cover	<ul style="list-style-type: none">• Top cover
3	Bypass feed motor	<ul style="list-style-type: none">• Top cover• Bottom cover
4	Bypass feed motor drive board	<ul style="list-style-type: none">• Top cover• Bottom cover• Bypass feed motor mount
5	Bypass feed clutch	<ul style="list-style-type: none">• Top cover• Bottom cover• Bypass feed motor mount
6	Pickup roller	<ul style="list-style-type: none">• Top cover• Bottom cover• Bypass feed motor• Bypass feed clutch
7	Friction pad	<ul style="list-style-type: none">• Top cover• Bottom cover• Bypass feed motor• Bypass feed clutch• Pickup roller
8	1st, 2nd Feed Rollers	<ul style="list-style-type: none">• Top cover• Bottom cover• Bypass feed motor mount
9	Bypass Paper End Sensor	<ul style="list-style-type: none">• Top cover

Covers

1


Top Cover

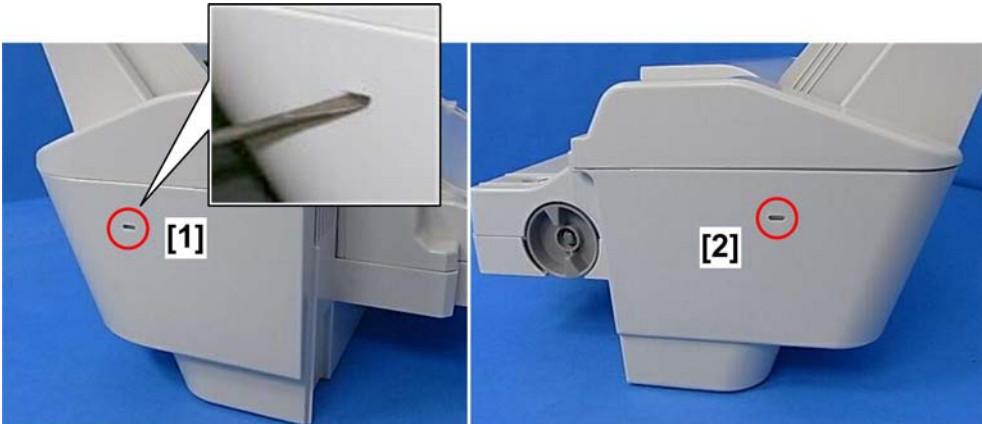
Preparation

- Remove the bypass unit from the back of the main machine.



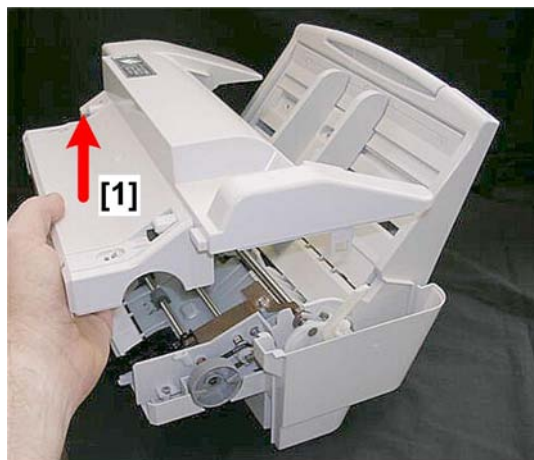
j309r003a

1. Remove the screws of the top cover [1] ( x2).



j309r003b

2. Insert the tip of a sharp tool into the hole on the left side [1] and right side [2] to release the top cover.



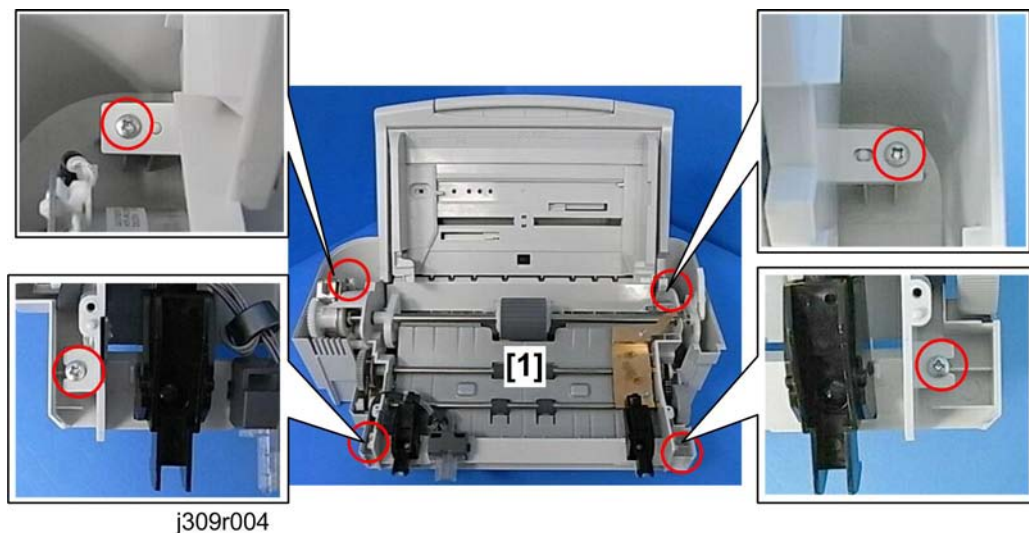
j309r003c

3. Lift the top cover [1] off the unit.

Bottom Cover

Preparation

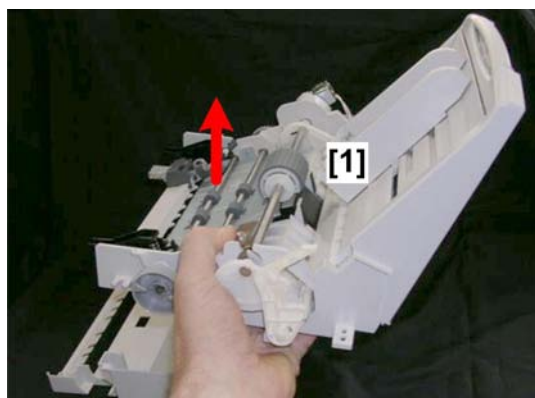
- Top cover (p.4)



j309r004

1. Unfasten the bottom cover [1] (⚙ x4).

1



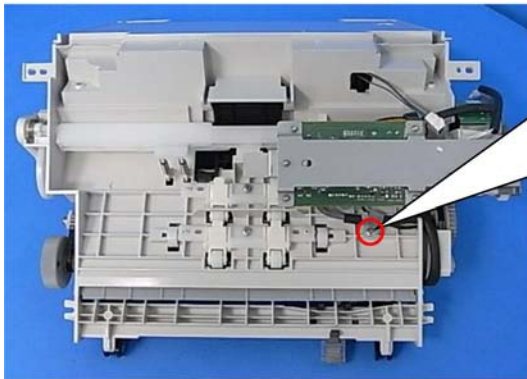
j309r004a

2. Lift the unit [1] off the bottom cover.

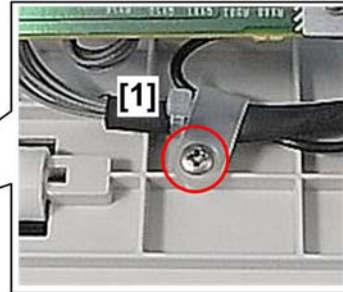
Bypass Feed Motor

Preparation

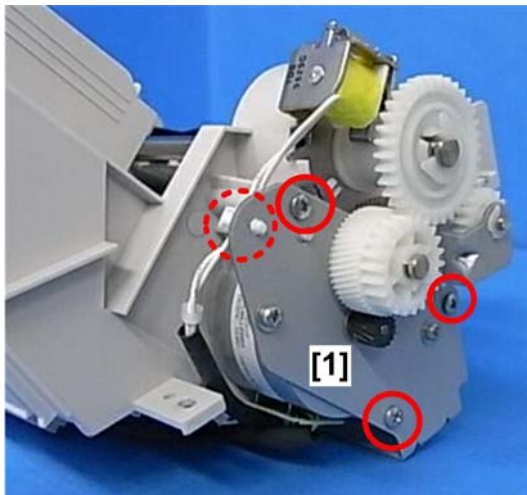
- Top cover (p.4)
 - Bottom cover (p.5)
1. Turn the unit over so it is upside down.



j309r005

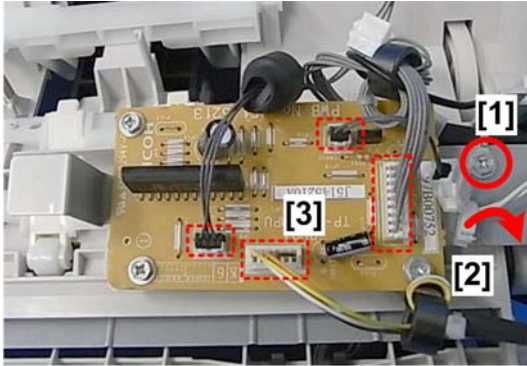


2. Disconnect the harness [1] clamp (x1).



j309r006


3. Turn the unit over so it is upright.
4. On the left side of the drive unit, remove the screws of the mount [1] and open the clamp (x3, x1)



j309r007

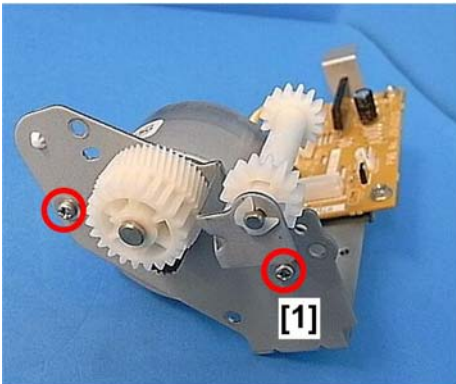
5. Disconnect:

[1] Ground wire ( x1)

[2] Harness ( x2)

[3] Drive board ( x4)

6. Remove the motor mount.



j309r008

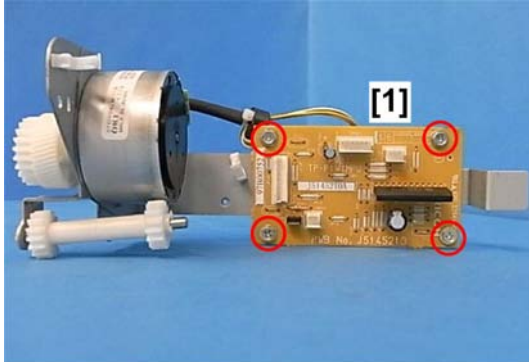
7. Disconnect the motor mount [1] ( x2).

8. Separate the motor [2] from the motor mount.

Bypass Feed Motor Drive Board

Preparation

- Top cover (p.4)
- Bottom cover (p.5)
- Bypass feed motor mount (p.7)



j309r009

1. Remove the bypass feed motor drive board [1] (x4).

Bypass Feed Clutch

1

Preparation

- Top cover (p.4)
- Bottom cover (p.5)
- Bypass feed motor mount (p.7)



j309r010

1. Remove bypass feed clutch [1] (x1).

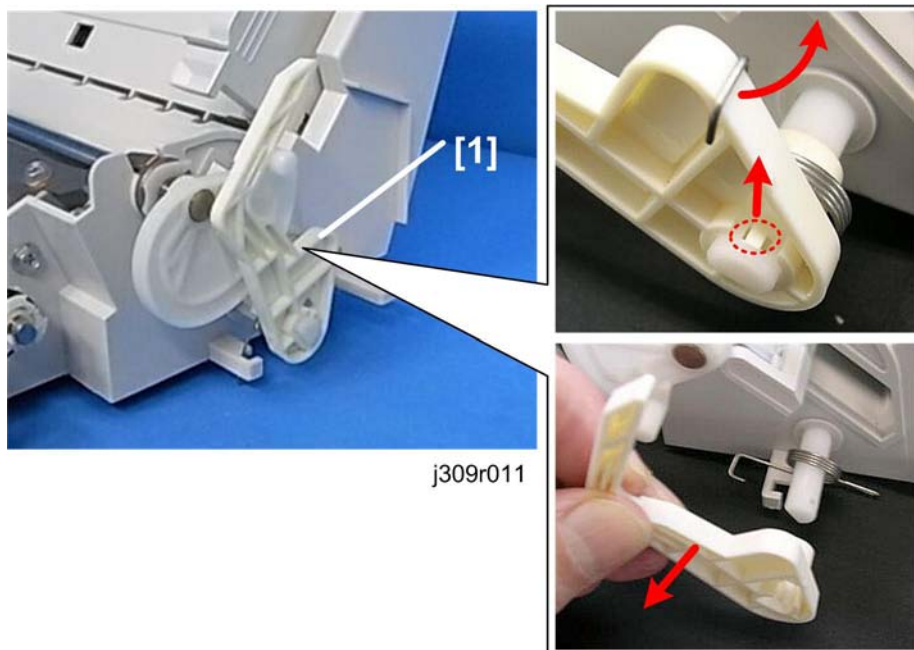
Rollers

Pickup Roller

1

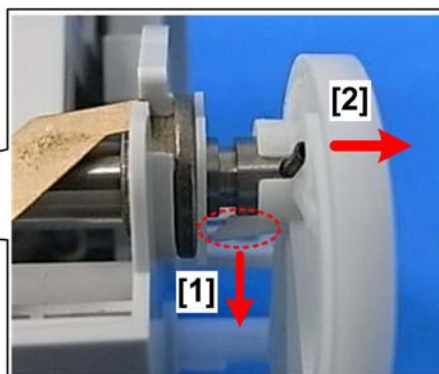
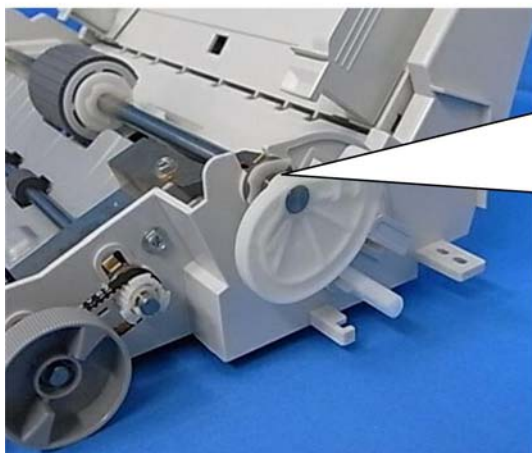
Preparation

- Top cover (p.4)
- Bottom cover (p.5)
- Bypass feed motor mount (p.7)
- Bypass feed clutch (p.10)



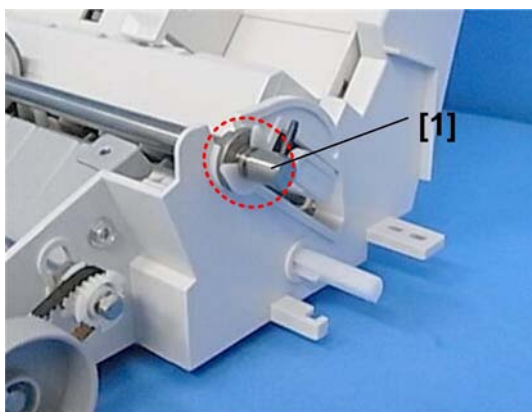
1. On the right side remove stopper [1] (x1, x1).

1



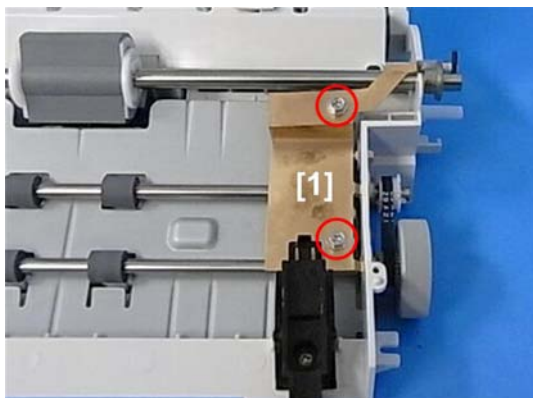
j309r012

2. Open the pawl release [1].
3. Remove cam [2].




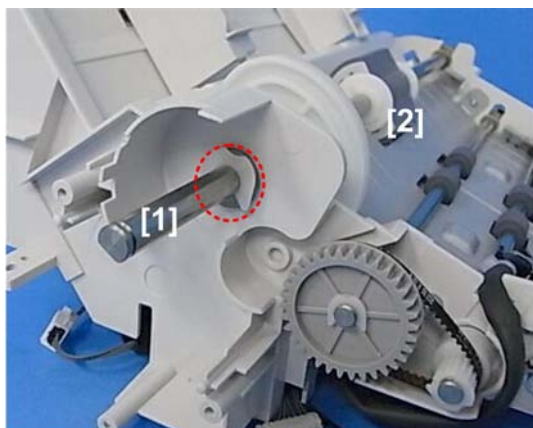
j309r013

4. Release the end of shaft [1] ($\odot \times 1$).





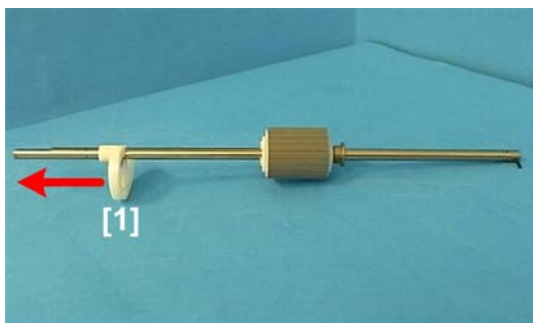
j309r014

5. Remove ground plate [1] ( x2).



j309r015

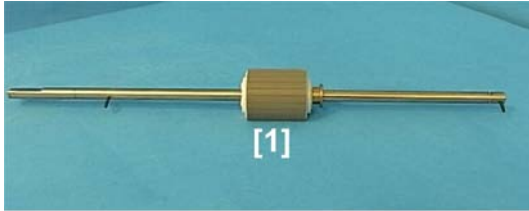
6. On the left release shaft [1] ( x1,  x1).
7. Remove the roller shaft with the pickup roller [2] attached.



j309r016

8. Slide the cam [1] off the shaft.

1



j309r017

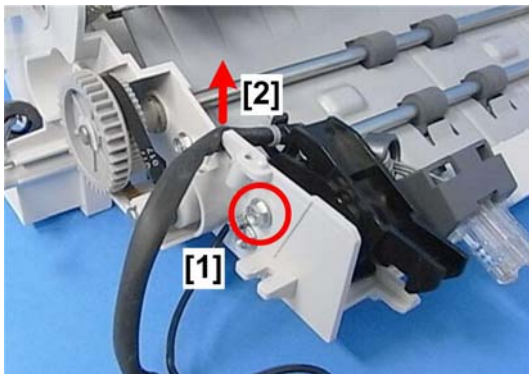
★ Important

- The shaft and pickup roller [1] comprise one replacement part (J3092503). They should not be separated. The roller and shaft are always replaced together.

1st, 2nd Feed Rollers

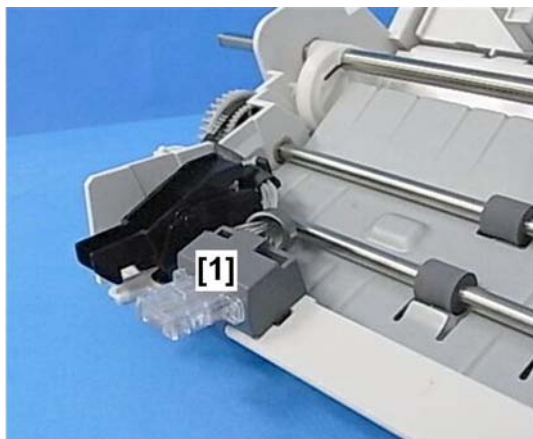
Preparation

- Top cover (p.4)
- Bottom cover (p.5)
- Bypass feed motor mount (p.7)



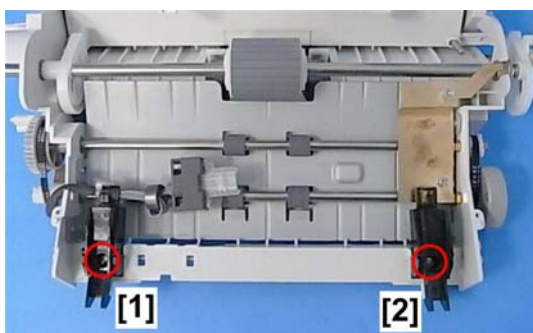
j309r020

1. On the left side disconnect ground wire [1] (x1).
2. Pull harness [2] out of the notch.



j309r021

3. Disconnect and remove connector [1] (▼ x3).

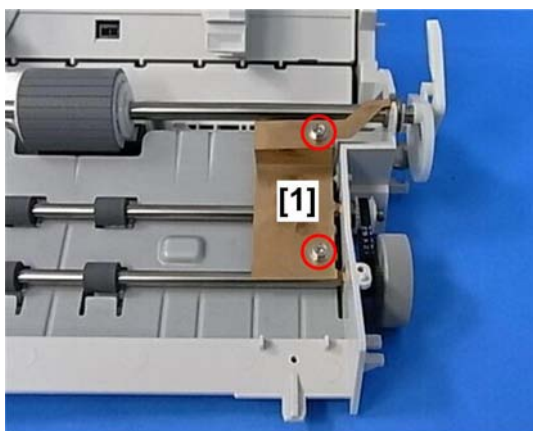


j309r022


4. Remove:

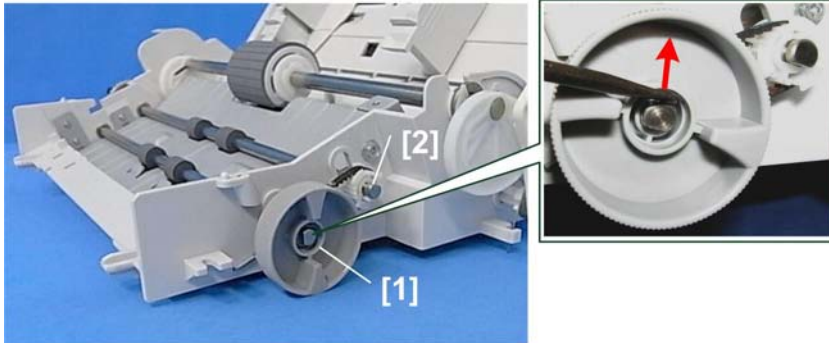
[1] Lock lever (🔧 x1)

[2] Lock lever (🔧 x1)



j309r023


5. On the right remove ground plate [1] ( x2).

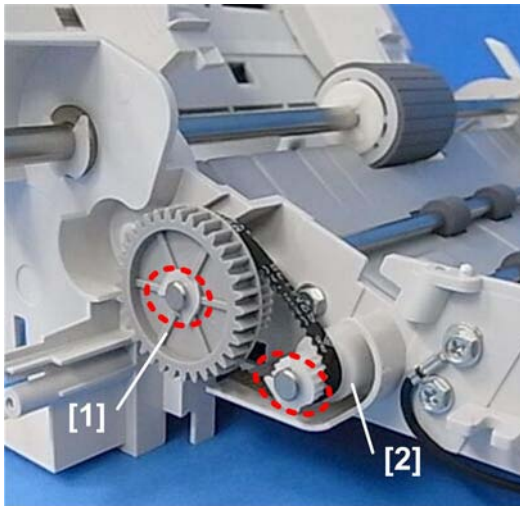


j309r024

6. Remove:


[1] Paper feed dial ( x1)


[2] Gear ( x1, Timing belt x1)



j309r025

7. On the right remove:

[1] Gear ( x1)

[2] One-way clutch ( x1, Timing belt x1)



8. On the left disconnect:

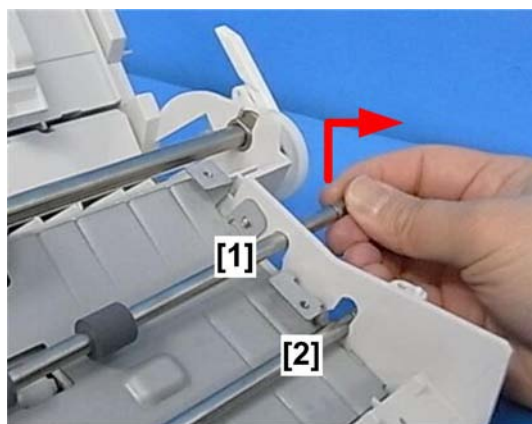
[1] 1st feed roller shaft (⌀x1)

[2] 2nd feed roller shaft (⌀x1)

9. On the right disconnect:

[3] 1st feed roller shaft (⌀x1)

[4] 2nd feed roller shaft (⌀x1)



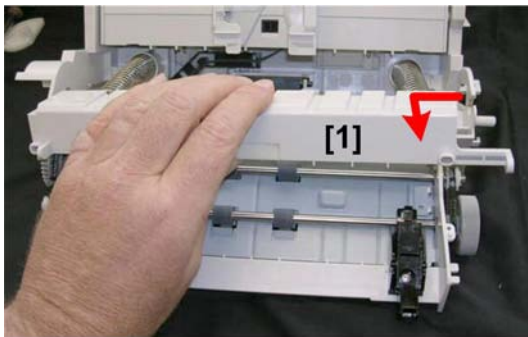
10. On the right:

- Raise the right end of the 1st feed roller [1], disconnect the left end of the shaft, and remove the roller.
- Raise the right end of the 2nd feed roller [2], disconnect the left end of the shaft, and remove the roller.

Friction Pad

Preparation

- Top cover (p.4)
- Bottom cover (p.5)
- Bypass feed motor mount (p.7 "Bypass Feed Motor")
- Bypass feed clutch (p.10)
- Pickup roller (p.11)

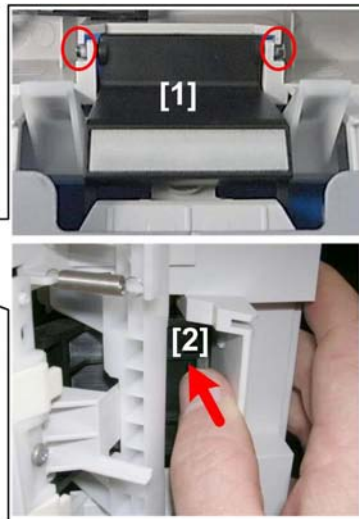


j309r018

1. Remove friction pad cover [1].



j309j019



2. Remove the friction pad [1].

Note

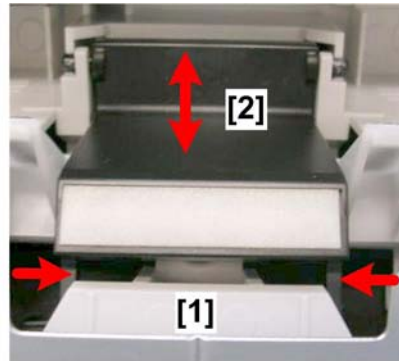
- The friction pad is easier to remove if you push it up from below at [2].

Re-installation



j309r019a

1. Make sure that the spring is attached to the bottom of the friction pad.



j309r019b

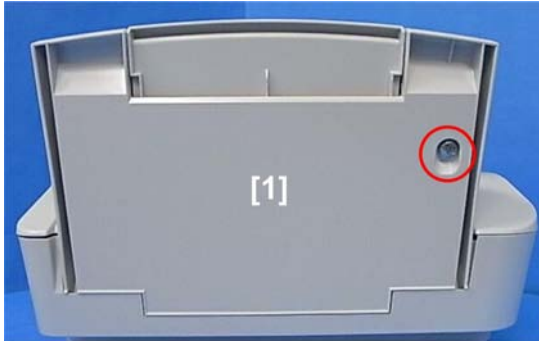
2. Install the friction pad so the arms on both sides are below the plate [1].
3. Press down on the friction pad [2] to confirm that it bounces freely on its spring.

Bypass Paper End Sensor

1

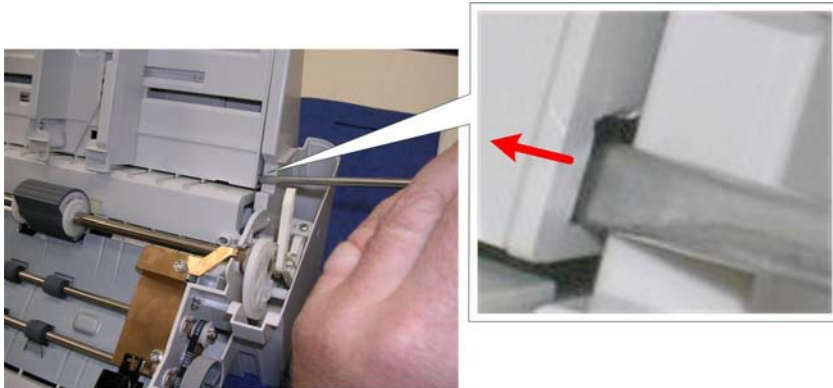
Preparation

- Top cover (p.4)



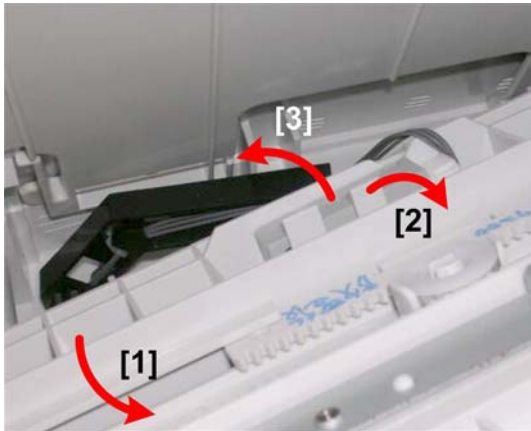
j309r028

1. Remove the screw on the back of the bypass tray [1] (x1).



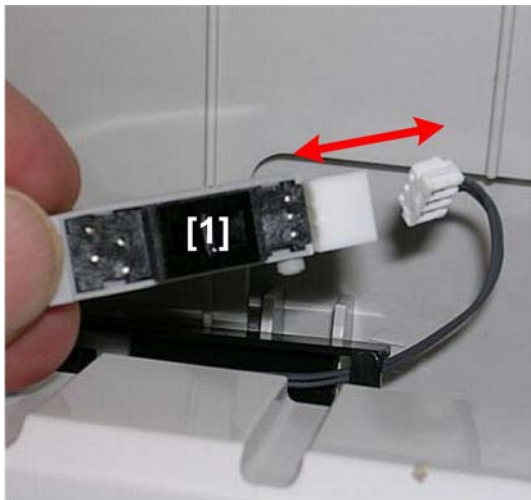
j309r029

2. On the right insert the tip of a screwdriver into the release hole and release the fence plate.



j309r030

3. Pull the fence plate [1] slightly away from the unit so you can see the sensor.
4. Lift the pawl [2] to release the sensor (▼ x1).
5. Pull the sensor [3] away from the fence plate.



j309r031

6. Disconnect the sensor [1] (🔌 x1).

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