

Paper Feed Unit Type TK1140
Machine Code: J308
Field Service Manual

07 June, 2011

Safety and Symbols











Replacement Procedure Safety

CAUTION

- Turn off the main power switch and unplug the machine before beginning any of the procedures in this manual.

Symbols

This manual uses the following symbols.

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

Common Procedures

Before You Begin

Before you begin any replacement procedure:


1. Turn the machine off and disconnect it from its power source.
2. Lift the machine off the PFU.

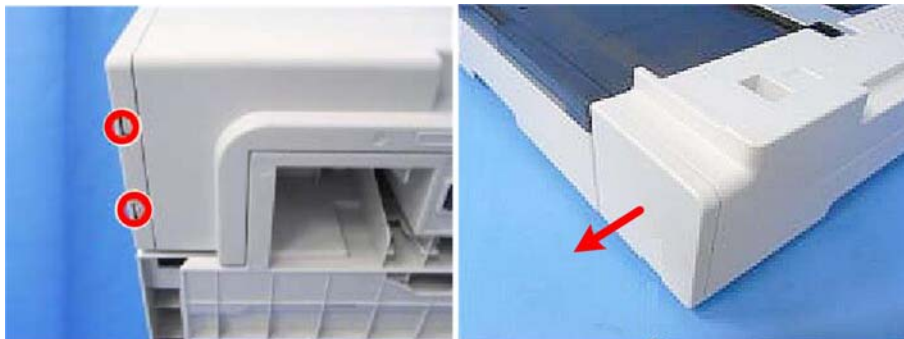
Covers

Right Cover, Top Cover




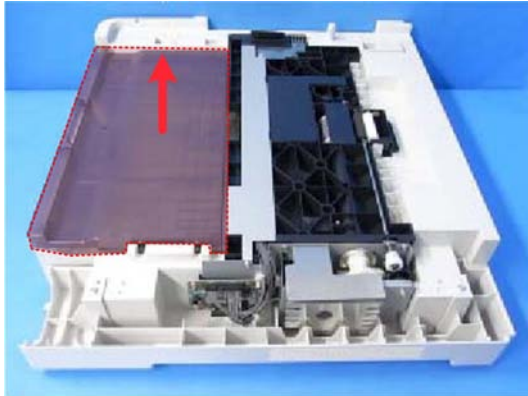
j308r001

1. Remove the right cover ( x2).



j308r002

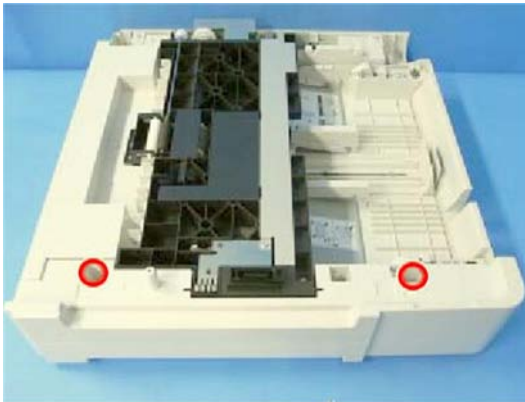
2. Remove the right front cover ( x2).





j308r003

3. Remove the top cover.

Left Cover




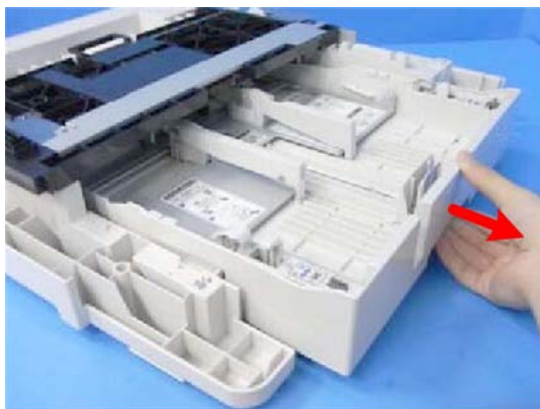
j308r008

1. Remove the top screws on the left cover ( x2).
2. Remove the feed unit ( See next section).
3. Remove the left cover.

Cassette Tray, Feed Unit

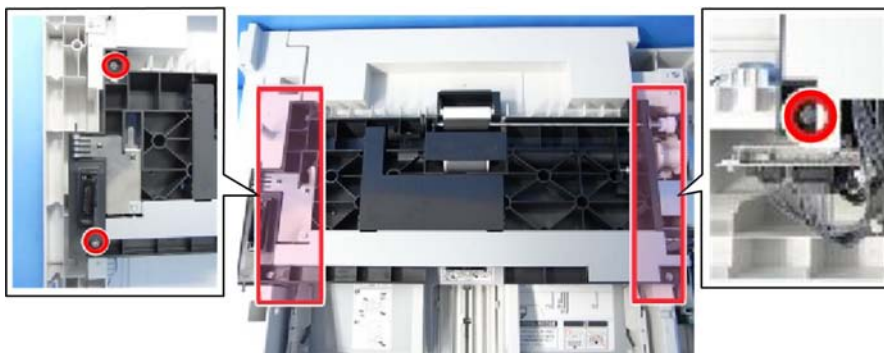
Preparation

- Right covers, top cover ( See "Covers" above)



j308r004

1. Remove the feed tray.



j308r005

2. Remove the feed unit ( x3).



j308r006

Sensors

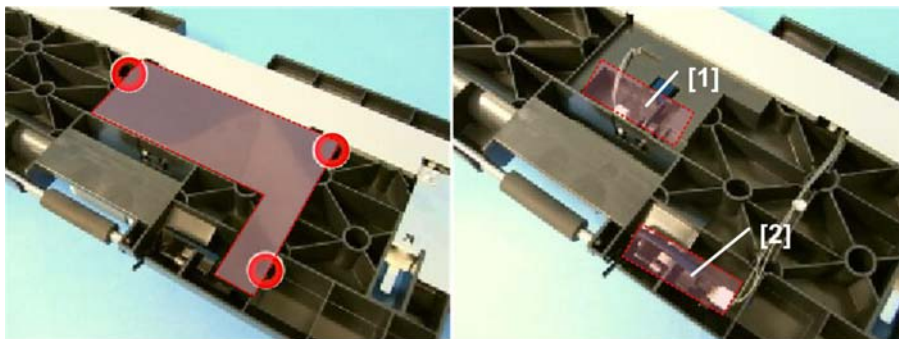
Relay Sensor

Preparation



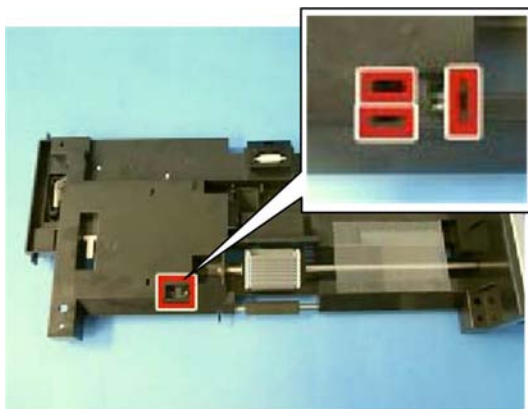
j308r006

- Remove the feed unit (p.2).



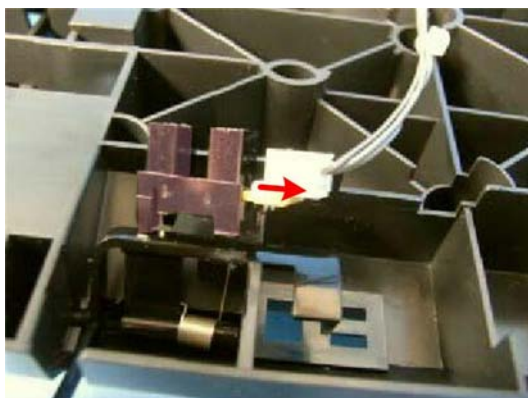
j308r009

1. On the bottom of the feed unit, remove the harness cover so you can see the paper end sensor [1] and relay sensor [2] (x3).



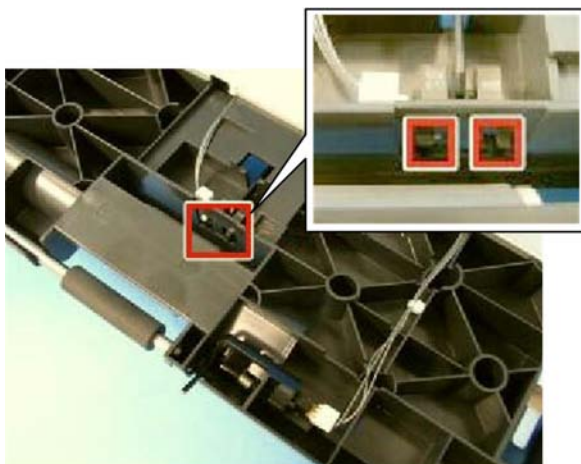
j308r010

2. On the top of the feed unit, use the tip of a small screwdriver to free the relay sensor (🔧 x3).



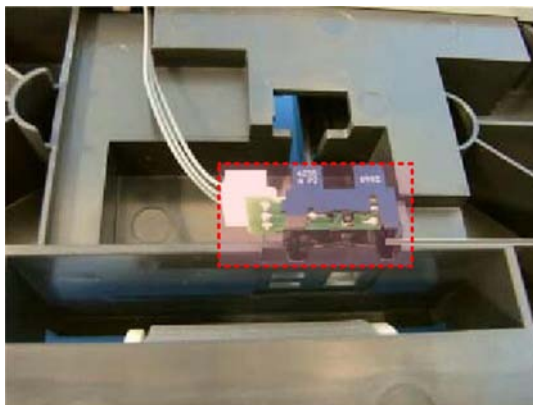
j308r011

3. Disconnect and remove the relay sensor (🔧 x1).



j308r012

4. Use the tip of a small screwdriver to free the paper-end sensor (▼ x3).

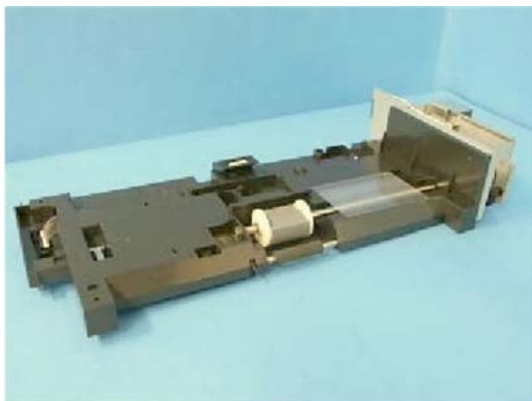


j308r013

5. Disconnect and remove the paper-end sensor (▼ x3).

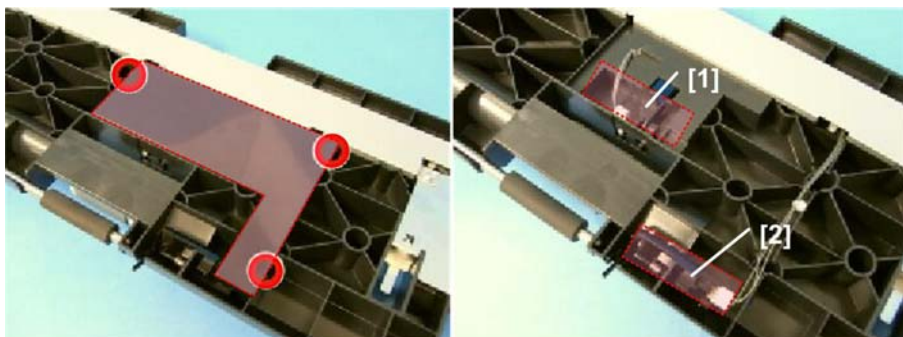
Paper End Sensor

Preparation



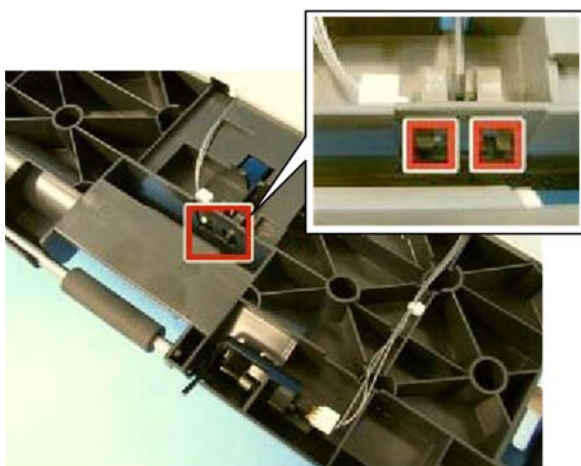
j308r006

- Remove the feed unit (p.2).



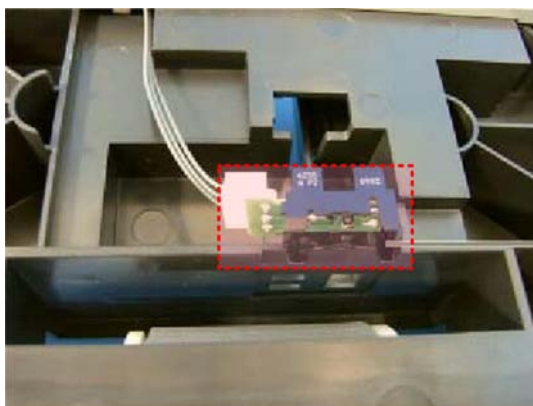
j308r009

1. On the bottom of the feed unit, remove the harness cover so you can see the paper end sensor [1] and relay sensor [2] (▼ x3).



j308r012

2. Use the tip of a small screwdriver to free the paper-end sensor (▼ x3).



j308r013

3. Disconnect and remove the paper-end sensor (▼ x3).

PFU Control Board

Preparation

- Remove the feed unit (🔧 p.2)



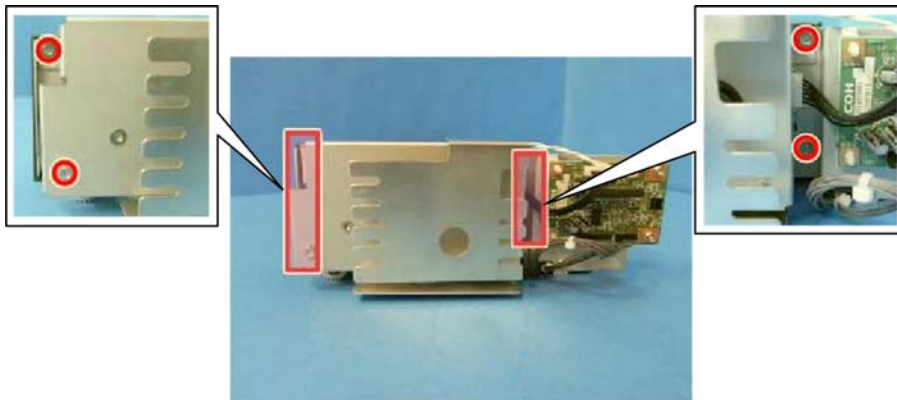
j308r014

1. Disconnect and remove the board (🔧 x4, 🔧 x2, 🔧 x2).

Paper Feed Motor

Preparation

- Remove the feed unit (🔧 p.2)



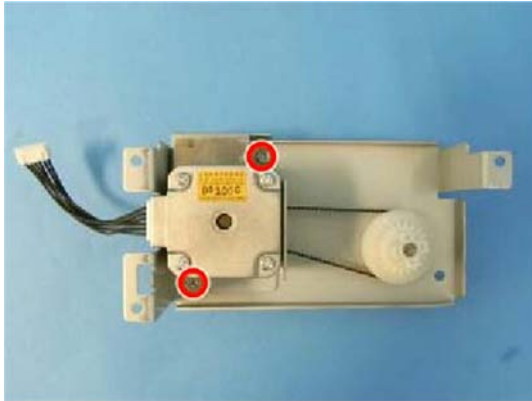
j308r015

1. Remove the feed motor bracket (🔧 x4).



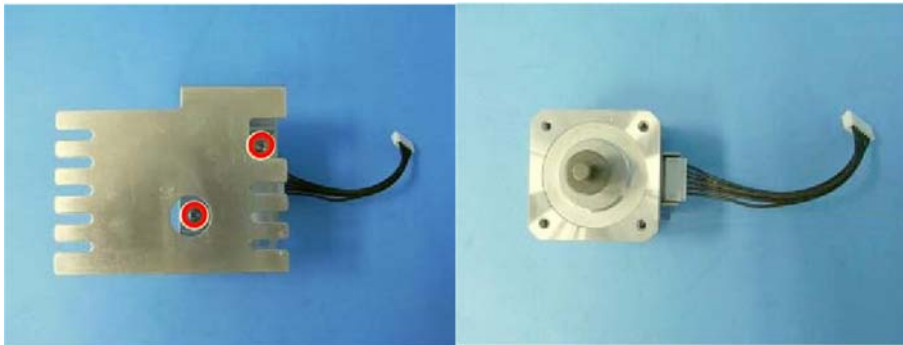
j308r016

2. Disconnect the motor harness from the control board (🔧 x1).



j308r017

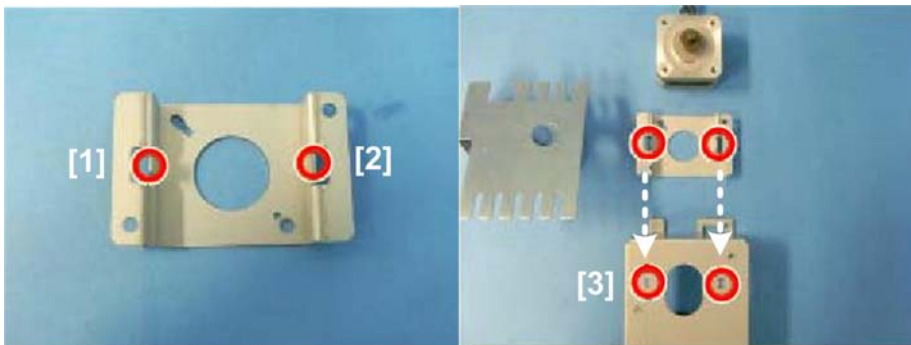
3. Turn the bracket over and remove the cover ( x2).



j308r018

4. Separate the bracket and motor ( x2).

Re-assembly



j308r020

The projections on the left and right side of the cover are not the same size.

- The left projection [1] on the cover is larger than the right projection [2].

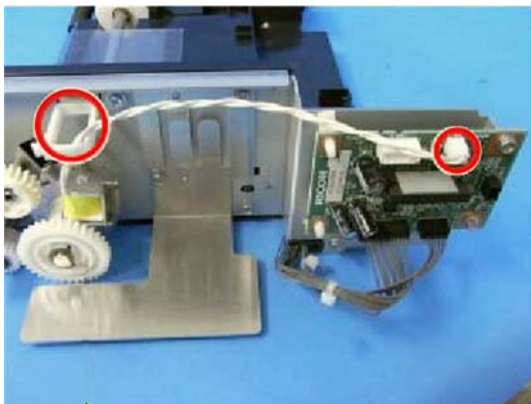
-
- When you re-install the motor, make sure the projections match the sizes of the holes in the bracket [3].
 - If the cover and bracket assembly is reversed, you will not be able to fasten them together.

Paper Feed Clutch, Rollers, Friction Pad

Gears, Paper Feed Clutch

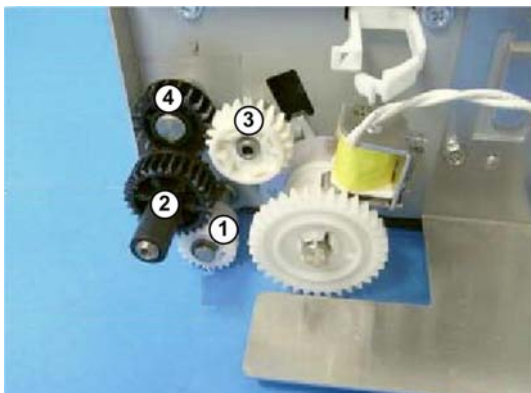
Preparation

- Remove the feed unit (🔧 p.2)
- Disconnect the feed motor bracket and disconnect the feed motor harness from the control board (🔧 p.9)



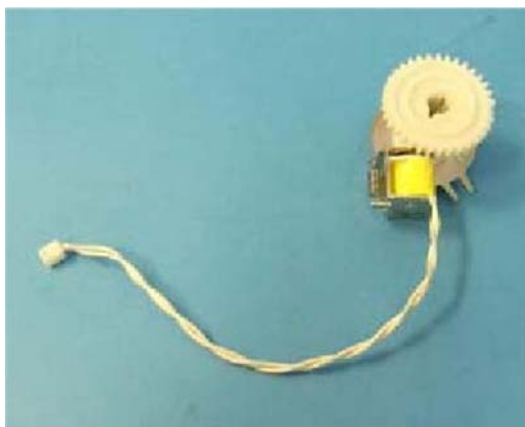
j308r021

1. Disconnect the clutch harness (🔧 x1, 🗑️ x1).



j308r022

2. Remove the gears in the order shown above (🔧 x1 at ①).



j308r023

3. Remove the clutch (Ⓒ x1).

Paper Feed Roller

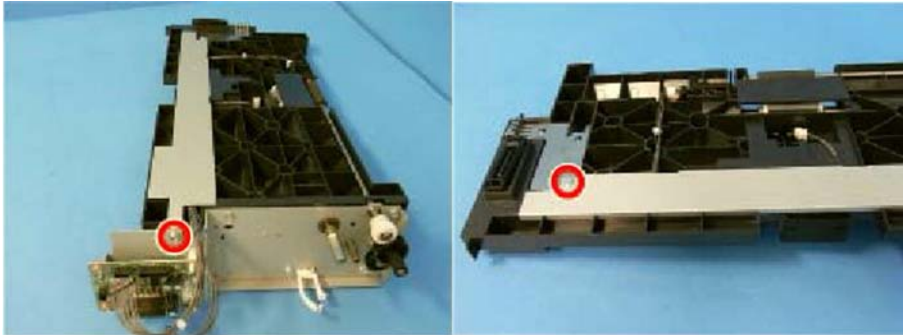
Preparation

- Remove the feed unit (p.2)
- Disconnect the PFU control board (x4) (p.9)




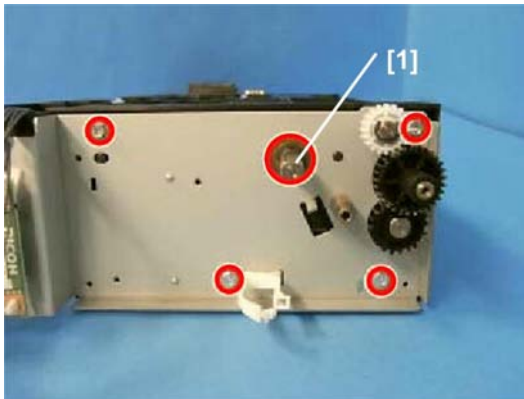
j308r024

1. Remove the one-way clutch (Ⓒ x1).




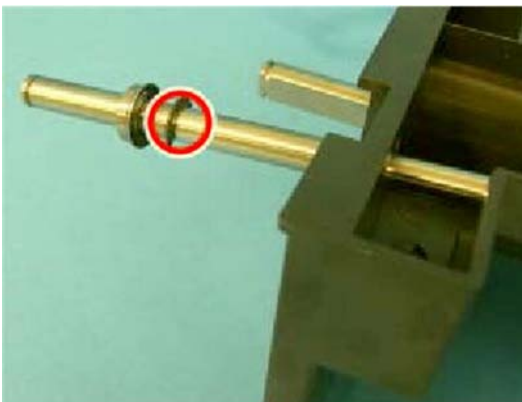
j308r025

2. Remove the cover ( x2).




j308r026

3. Disconnect the plate on the side of the feed unit (x4).
4. Disconnect the end of the feed roller shaft [1] ( x1).



j308r027

5. Pull out the transport roller from the end with the bushing attached and remove the e-ring ( x1).

Pickup Roller

Preparation

- Remove the feed clutch (🔧 p.13).



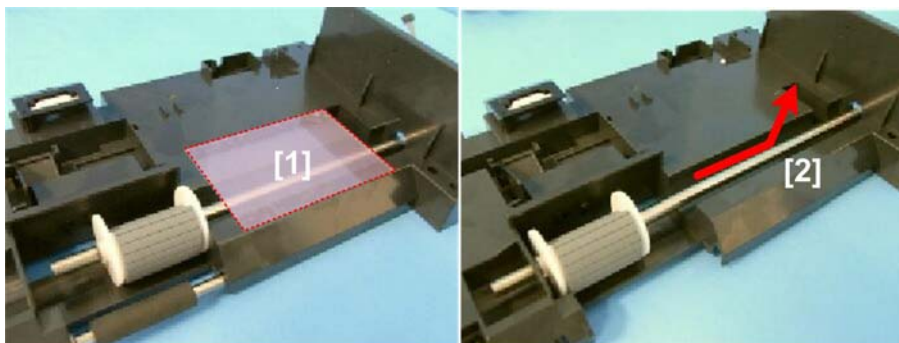
j308r028

1. Disconnect the end of the feed roller shaft (⌚ x1, 📐 x1).



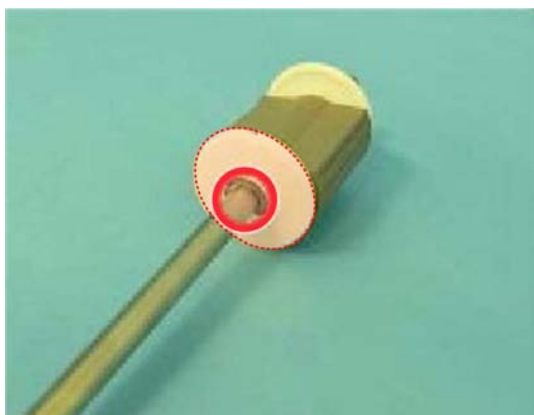
j308r029

2. Disconnect the other end of the feed roller shaft (⌚ x1).



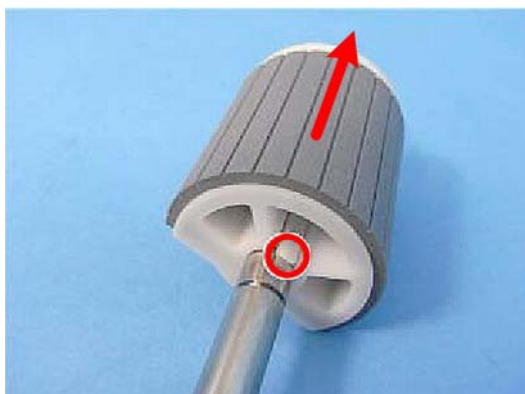
j308r030

3. Remove the mylar sheet [1].
4. Remove the feed roller shaft [2].



j308r031

5. Remove the press roller (Ⓒ x1).



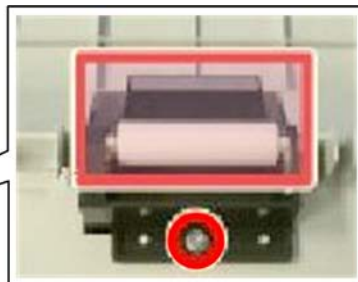
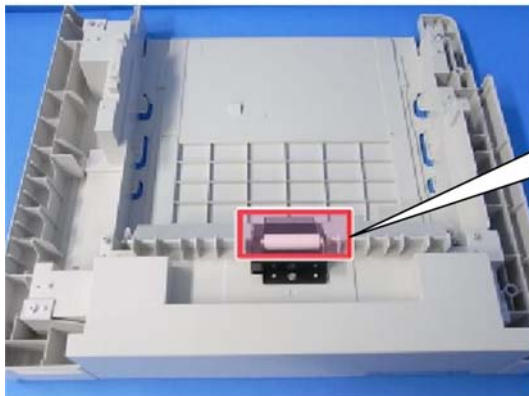
j308r032

6. Release the feed roller and remove it (▼ x1).

Friction Pad

Preparation

- Remove the feed unit (🔧 p.2)



j308r007

1. Remove the friction pad (🔧 x1).
2. Clean the friction pad

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