

Paper Feed Unit TK1220
Machine Code: G849
Field Service Manual

Safety and Symbols

Replacement Procedure Safety

CAUTION

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

Symbols Used in this Manual

This manual uses the following symbols.

: Screws

: Connector

: Clip ring


: E-ring

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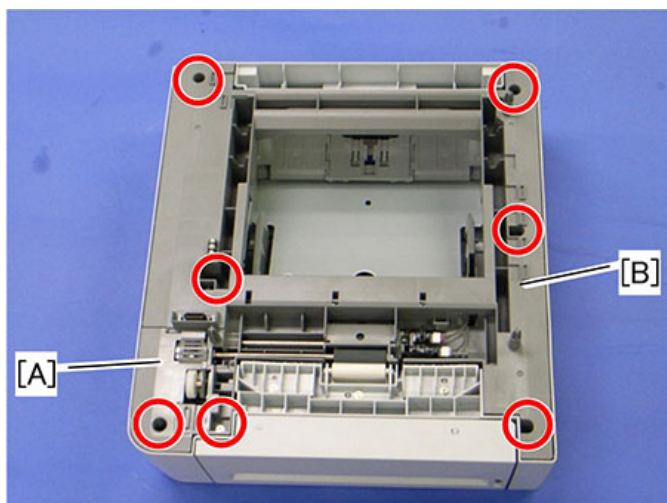
1. Replacement and Adjustment

Paper Feed Unit

1

Top Cover

1. Remove the top left cover [A]. (🔧 x 1)
2. Remove the top cover [B]. (🔧 x 6)

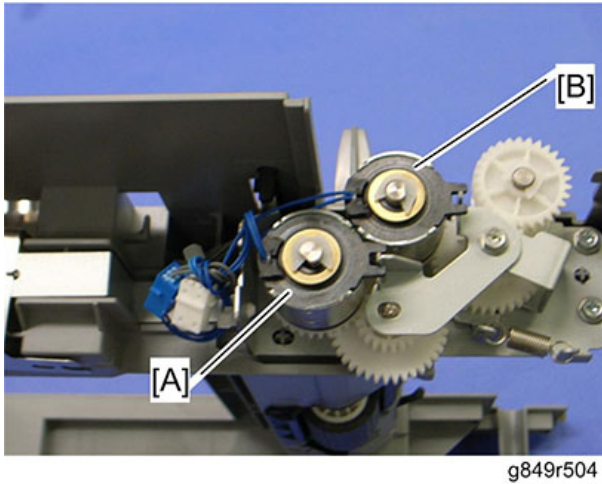


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Paper Feed and Relay Clutch

1. Remove the top cover. (page 3 "Top Cover")
2. Remove the paper feed clutch [A]. (🔧 x 1, 🛠 x 1)

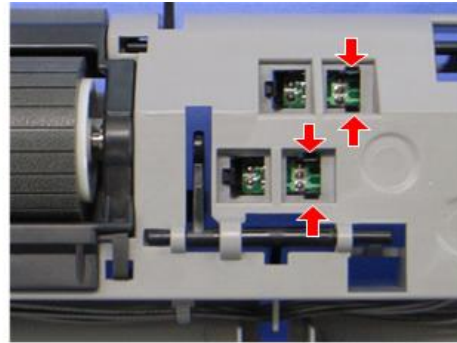
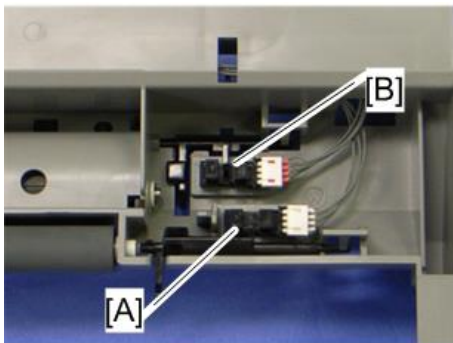
3. Remove the relay clutch [B]. (⌘ x 1, 📄 x 1)



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Paper End and Relay Sensor

1. Remove the top cover. (page 3 "Top Cover")
2. Remove the paper end sensor [A]. (hooks, 📄 x 1)
3. Remove the relay sensor [B]. (hooks, 📄 x 1)

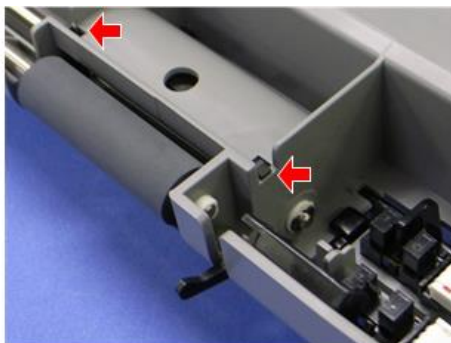
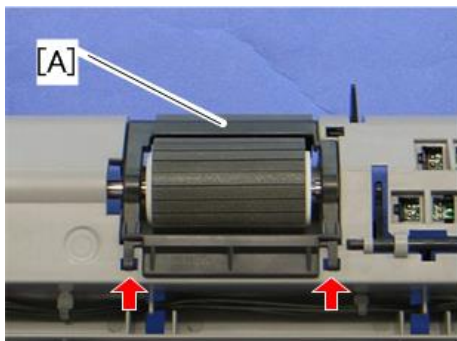


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Paper Feed Roller

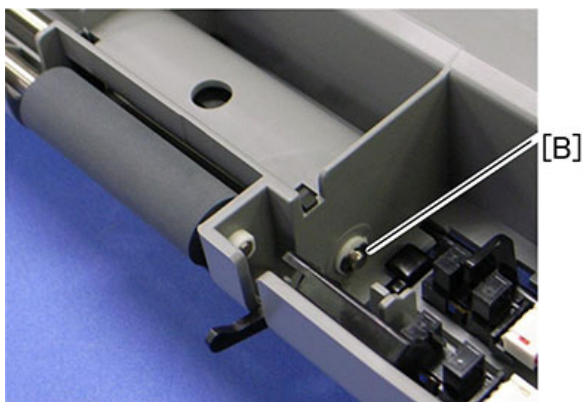
1. Remove the top cover. (page 3 "Top Cover")
2. Remove the paper feed clutch. (page 3 "Paper Feed and Relay Clutch")

3. Remove the paper guide [A]. (hooks)



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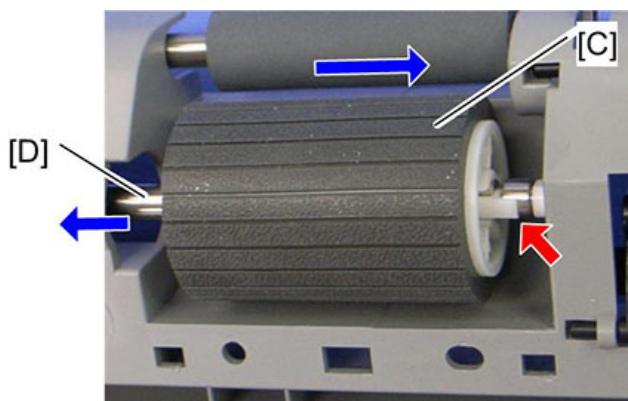
4. Remove the e-ring [B] at the right edge of the feed roller shaft.



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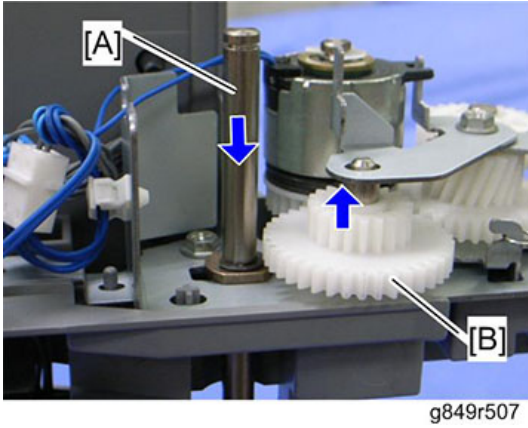
5. Slide the paper feed roller [C] to the right side (hook).

6. Pull out the feed roller shaft [D] to the left side (bushing x 1).



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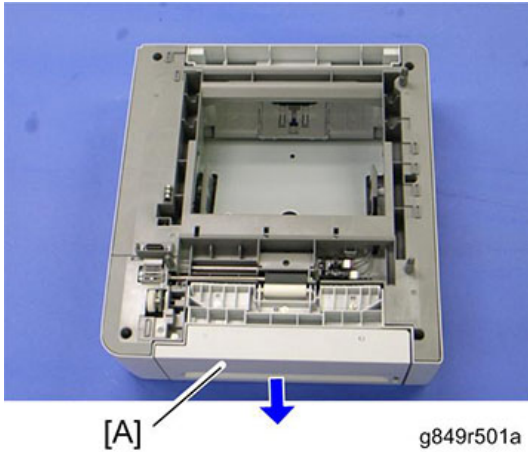
When reassembling



If the feed roller shaft [A] cannot be inserted easily, pull the gear [B], and then insert the feed roller shaft.

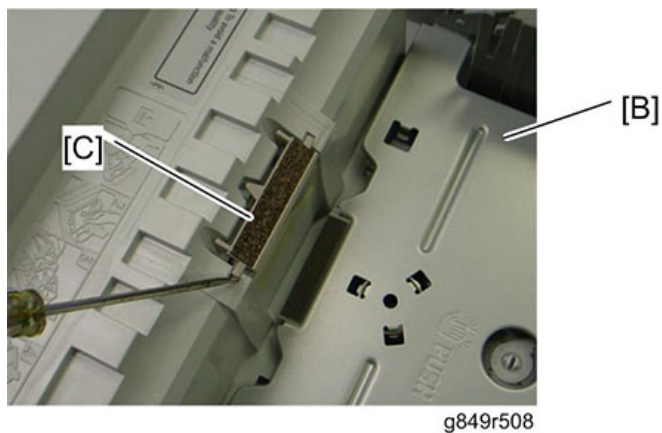
Friction Pad

1. Pull out the tray [A]

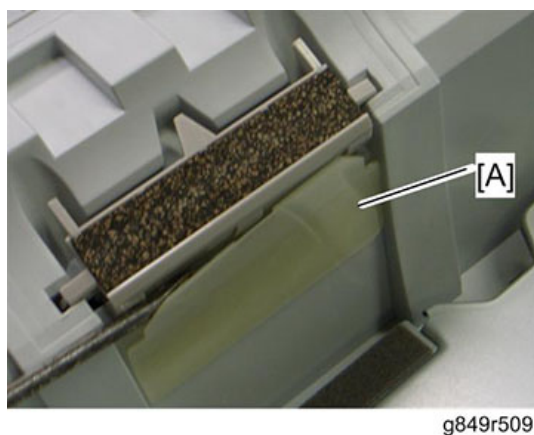


2. Press down the bottom plate [B]

3. Remove the friction pad [C]. (hooks, spring x 1)



When reassembling



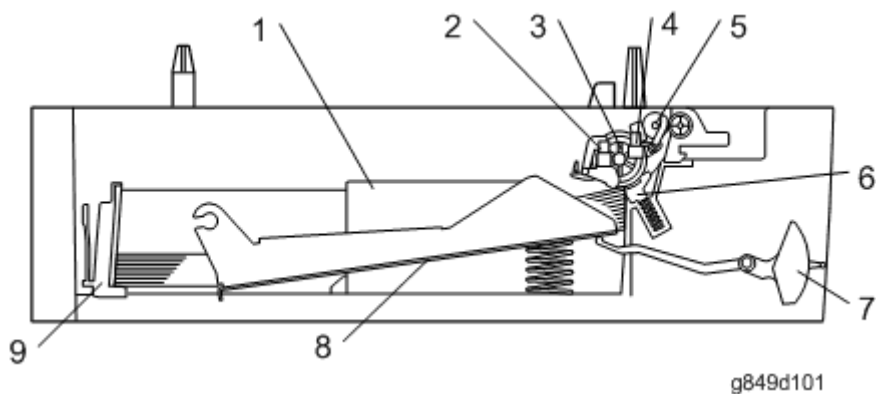
When re-installing the friction pad, make sure that the sheet [A] does not go under the friction pad.

2. Detailed Section Descriptions

Overview

Component Layout

2

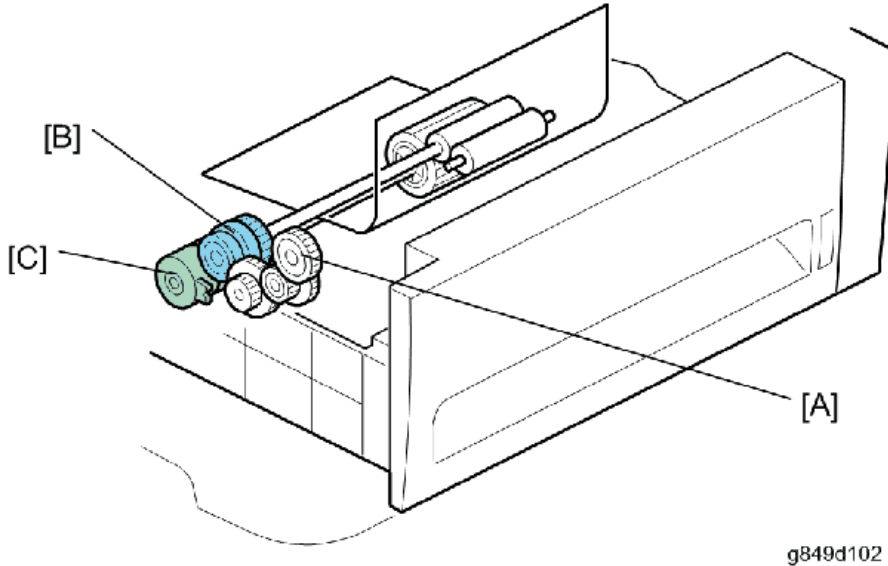


1. Side Fence	6. Friction Pad
2. Paper End Sensor	7. Paper Height Lever
3. Paper Feed Roller	8. Bottom Plate
4. Relay Sensor	9. Rear Fence
5. Relay Roller	

Basic Operation

Paper Separation and Feed

2



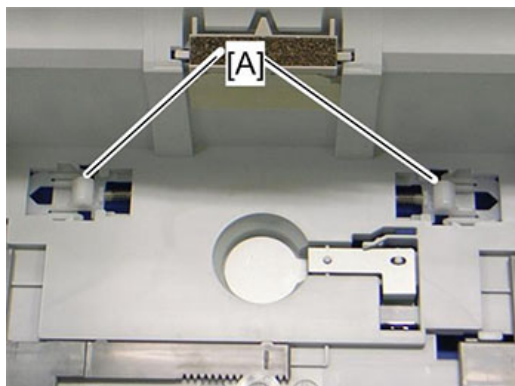
The paper tray holds 500 sheets of paper.

The paper feed unit uses a friction pad system.

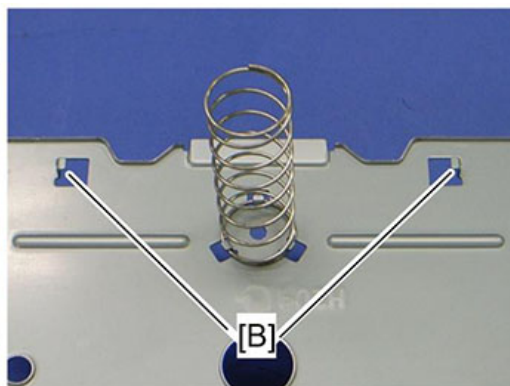
The gear [A] is driven by the transport/fusing motor in the mainframe.

The relay clutch [B] and paper feed clutch [C] control drive from the mainframe. When the optional tray is selected as the feed tray, the relay clutch and paper feed clutch transmit drive power to the relay roller and paper feed roller.

Paper Lift



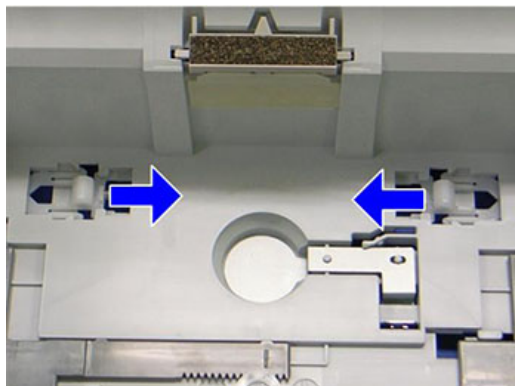
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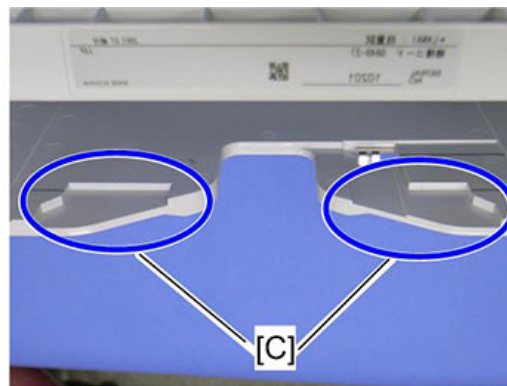
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The bottom plate is always pressed up by the spring in the tray. Therefore, you must press down the bottom plate when you insert the tray in the machine.

The bottom tray lock levers [A] hold the tabs [B] under the bottom plate after the bottom plate is pressed down.



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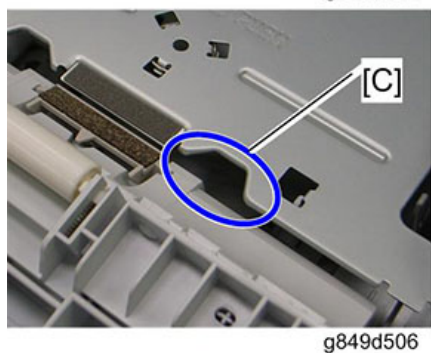
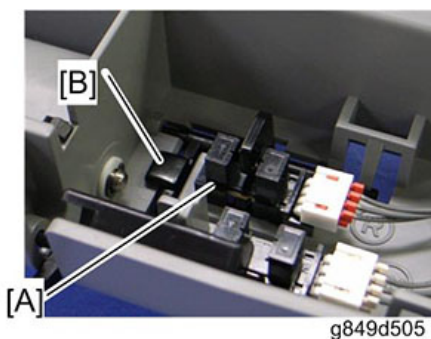
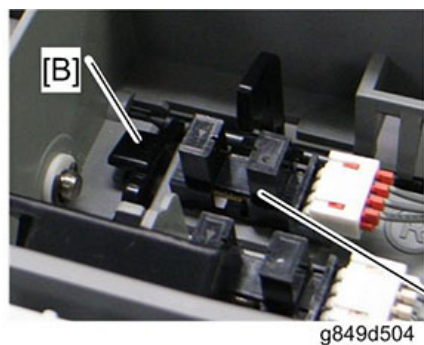


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When the tray is inserted in the machine, the lock lever guides [C] in the paper feed unit push the bottom plate lock levers, and then the lock levers release the tabs under the bottom plate. As a result, the bottom plate is lifted by the spring.

Paper End Detection

2



There is a paper end sensor [A] in the tray. The feeler [B] drops into the cutout [C] in the bottom plate and the actuator interrupts the paper end sensor. This sensor also detects whether the tray is set.