# Paper Feed Unit PB1050 Machine Code: D573

**Field Service Manual** 

# **Important Safety Notices**

#### **WARNING**

- Never install telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
- Do not use a telephone or cellular phone to report a gas leak in the vicinity of the leak.

#### **CAUTION**

- Before installing the fax unit, switch off the main switch, and disconnect the power cord.
- The fax unit contains a lithium battery. The danger of explosion exists if a battery of this type is
  incorrectly replaced. Replace only with the same or an equivalent type recommended by the
  manufacturer. Discard batteries in accordance with the manufacturer's instructions and local
  regulations.



- Note for Australia:
- Unit must be connected to Telecommunication Network through a line cord that meets the requirements of ACA Technical Standard TS008.

# Symbols, Abbreviations and Trademarks

#### Conventions Used in this Manual

This manual uses several symbols.

Symbol	What it means	
101"	Refer to section number	
F	Screw	
	Connector	
C	E-ring	
ℴ	Clip ring	
Ą	Clamp	



#### Cautions, Notes, etc.

The following headings provide special information:

#### **WARNING**

• Failure to obey warning information could result in serious injury or death.

#### **A**CAUTION

• Obey these guidelines to ensure safe operation and prevent minor injuries.

#### **☆ Important**

 Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.  Always obey these guidelines to avoid serious problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine. bold is added for emphasis.



• This document provides tips and advice about how to best service the machine.

#### **Trademarks**

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#### 1

# 1. Replacement and Adjustment

# **Beforehand**

#### **ACAUTION**

- Before installing options, please do the following:
- If there is a fax unit in the machine, print out all messages stored in the memory, the lists of user-programmed items, and the system parameter list.
- If there are printer jobs in the machine, print out all jobs in the printer buffer.
- Turn off the main switch and disconnect the power cord, the telephone line, and the network cable.

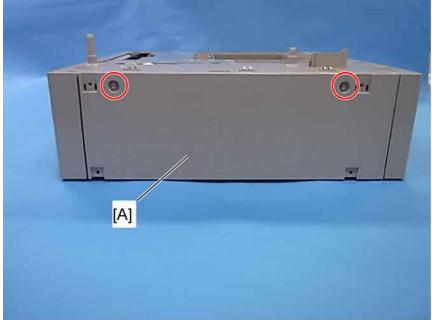
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 Always touch a grounded surface to discharge static electricity from your hands before you handle SD cards, printed circuit boards, or memory boards.

# Paper Feed Unit (D573)

#### Rear Cover

1. Pull out the paper tray ( p.8).



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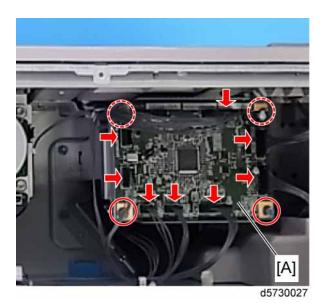
2. Rear cover [A] ( \* x 2)

#### **Controller Board**

#### **Controller Board**

- 1. Pull out the paper tray (pr.8).
- 2. Rear cover (**p**.6)
- 3. Rear stay (**p**.24)

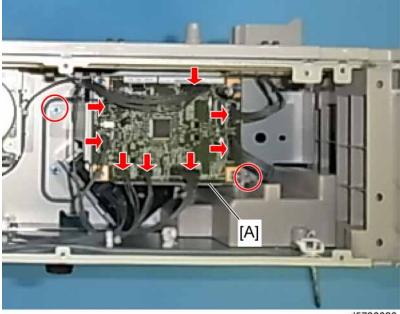
6



Controller board [A] (All 🗐 s, 🎤 x 4)

#### Controller Board with the Bracket

- 1. Pull out the paper tray (\*\* p.8).
- 2. Rear cover ( p.6)
- 3. Rear stay (\*\* p.24)

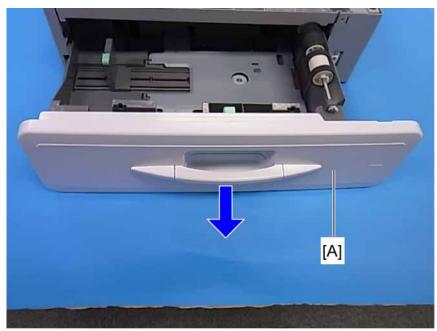


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4. Controller board with the bracket [A] (All  $\P$ s,  $\mathscr{F}$  x 2)

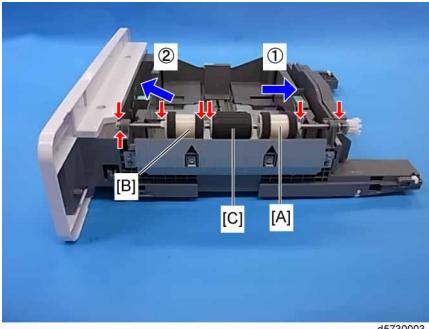
# Pick-up Roller

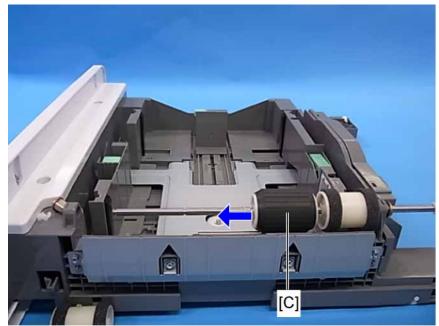
#### Pick-up Roller



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1. Pull out the paper tray [A].



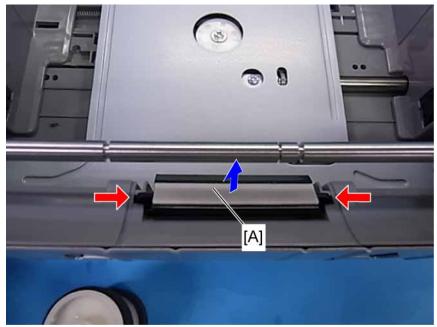


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- 2. Remove all clips on the shaft and move the roller [A] to the right side [1] ( $\heartsuit$  x 6, bearing x 1).
- 3. Move the shaft to the right, and pull out the shaft from the bushing at the left side.
- 4. Lift up the shaft [2] and remove the shaft from the bushing at the right side.
- 5. Remove the roller [B].

#### **Friction Pad**

1. Pick-up Roller ( p.8)

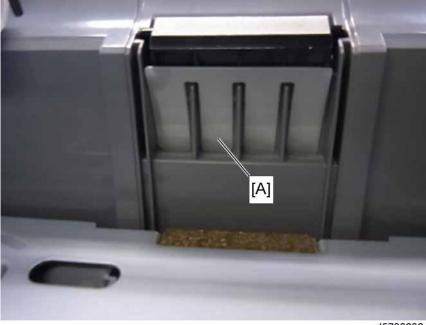


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2. Friction pad [A] (Hooks x 2, 🦠 x 1)

When reinstalling the friction pad:

1

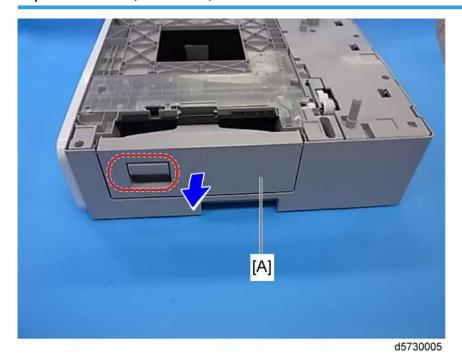


**U** Note

• To prevent the friction pad from catching on the Mylar sheet [A], place the friction pad while bending the Mylar sheet slightly outward.

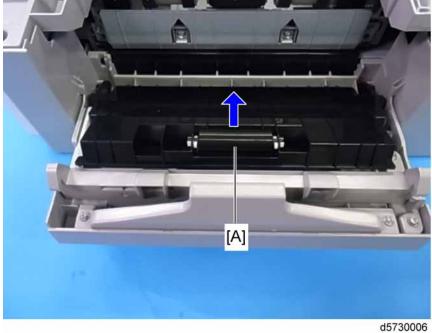
# Paper Feed Rollers

#### Paper Feed Roller (Driven side)



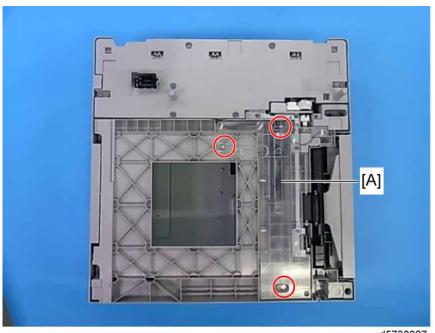
1. Open the right door [A].

12



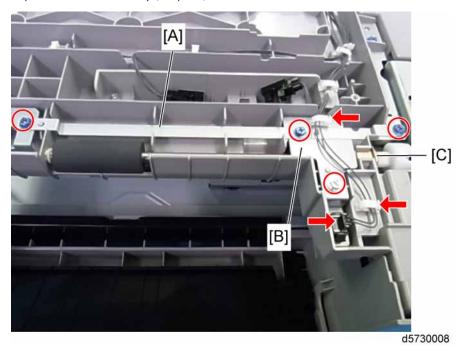
2. Paper feed roller [A] (hooks x 2)

## Paper Feed Roller (Driving Side)

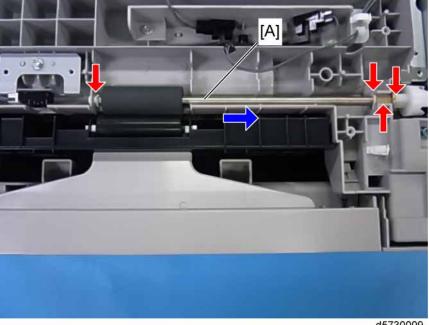


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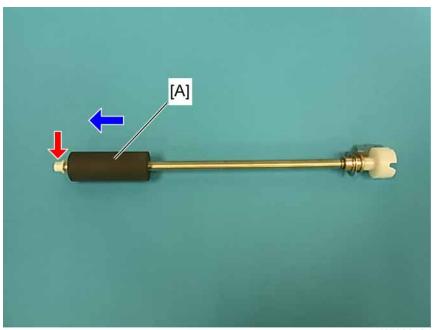
- 1. Remove the upper cover [A] ( \*x 3).
- 2. Open the right cover (\*\* p.12)
- 3. Paper feed motor assembly (\*\* p.25)



4. Remove the grounding plate [A] and sensor bracket [B], and then loosen the discharge plate [C] (\*\*\varPi x 4, \*\*\varPi x 2, \*\varPi x 1)



5. Remove the shaft [A] with the paper feed roller ( $\bigcirc$  x 2, bearings x 2).

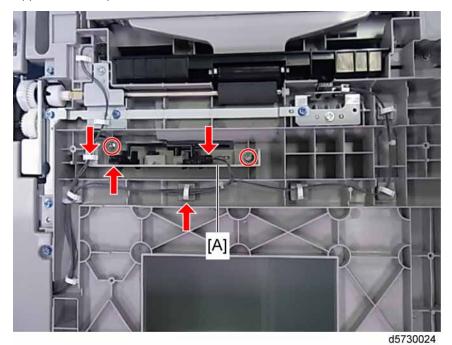


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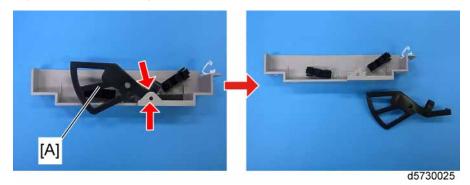
6. Paper feed roller (Driving side) [A] (Bearing x 1)

# Paper End Sensor 1 and 2

- 1. Pull out the paper tray (Fr p.8)
- 2. Upper Cover (\*\* p.12)

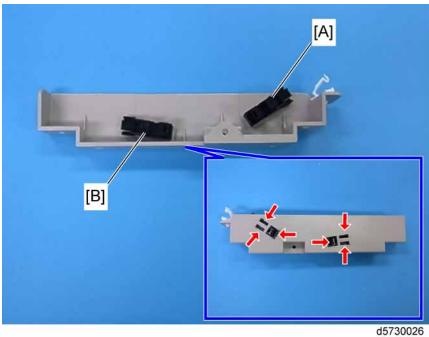


3. Paper end sensor assembly [A] (🛱 x 2, 📬 x 2, 🎉 x 2)



4. Feeler [A] (Snap points x 2)

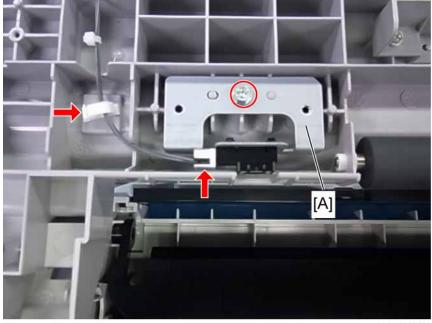
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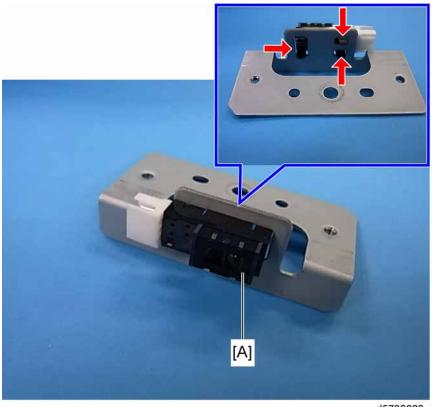
5. Paper end sensor 1 [A] and 2 [B] (hooks x 3 each)

## Paper Feed Sensor

- 1. Pull out the paper tray (Fr p.8)
- 2. Grounding plate and right door open/close sensor bracket (\*\*\* p.22)



3. Paper feed sensor with bracket [A] (♣x 1, ♣x 1, ♣x 1)



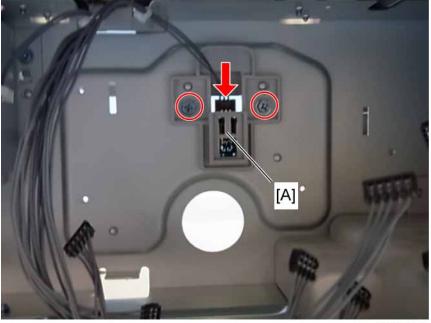
4. Paper feed sensor [A] (Hooks x 3)

## Tray Bottom Plate Pressure Sensor and HP Sensor

#### **Tray Bottom Plate Position Sensor 1**

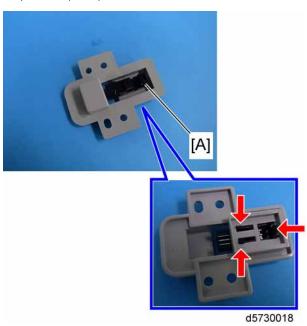
1. Tray Lift Motor ( p.24)





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2. Tray bottom plate pressure sensor with the bracket [A] (  $\mathbb{Z}^2\times 1$  ,  $\mathscr{F}\times 2$  )

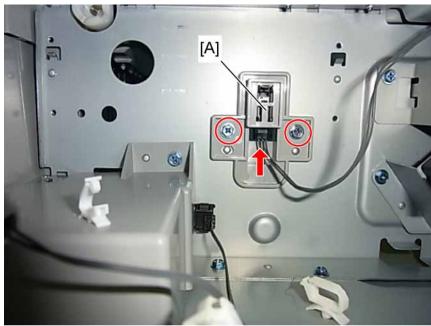


3. Tray bottom plate position sensor 1 [A] (Hooks  $\times$  3)

#### 1

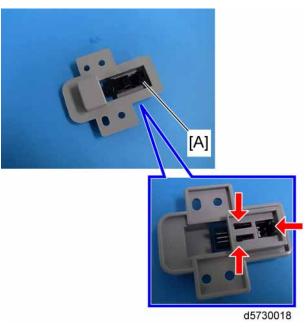
#### Tray Bottom Plate HP Position Sensor

1. Paper feed gear assembly (F p.26)



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2. Tray bottom plate HP position sensor with the bracket [A] (  $^{\sim}$  x 1,  $^{\sim}$  x 2)

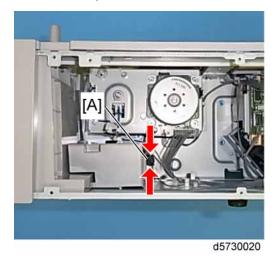


3. Tray bottom plate HP position sensor [A] (Hooks x 3)

#### Tray Set Sensor

1. Pull out the paper tray (Fr p.8)



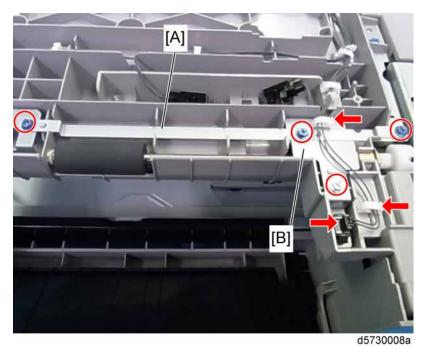


3. Pull out the tray set sensor from the front while releasing the hooks (Hooks  $\times$  2).

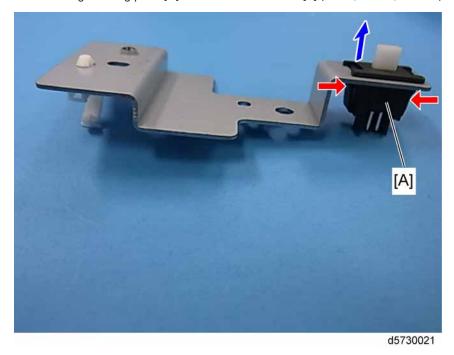
## Right Door Open/Close Sensor

- 1. Open the right door ( p.12)
- 2. Upper cover ( p.12)

П



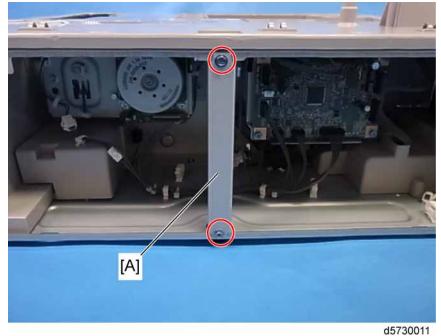
3. Remove the grounding plate [A] and the sensor bracket [B] (  $\mathscr{F}$  x 4,  $\overset{\smile}{\hookrightarrow}$  x 2,  $\overset{\smile}{\leadsto}$  x 1)



4. Right door open/close sensor [A] (Hooks x 2)

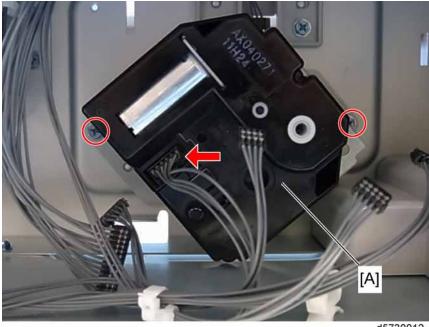
## Tray Lift Motor

- 1. Pull out the paper tray ( p.8)
- 2. Rear cover ( p.6)



- 3. Rear stay [A] ( > x 2)
- 4. Controller board with bracket ( Controller Board)

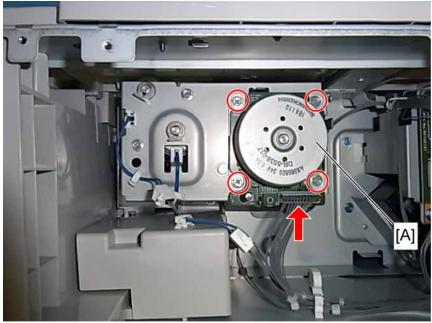
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5. Tray lift motor [A] ( x 2, 1 x 1)

# Paper Feed Motor

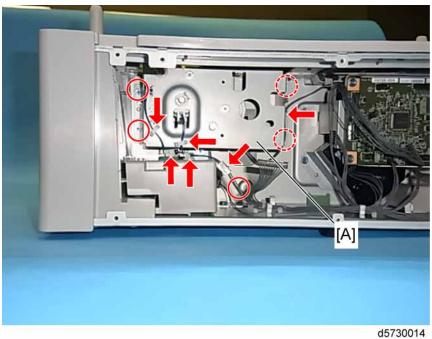
- 1. Pull out the paper tray ( p.8)
- 2. Rear cover (**p**.6)
- 3. Rear stay (**p**.24)



4. Paper feed motor [A] ( x 1, F x 4)

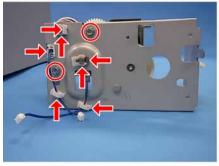
# Paper Feed Clutch and Relay Clutch

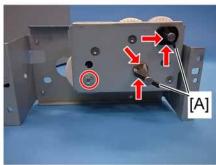
1. Paper feed motor (\*\* p.25)



1:

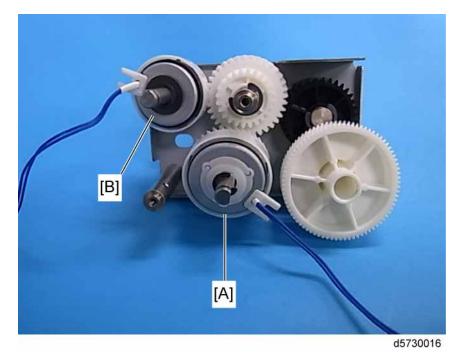
2:





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- 1: Front
- 2: Rear
- 3. Remove all screws, clips, clamps, e-rings and bearings.
- 4. Pull out the wedges [A].



5. Pull out the paper feed clutch [A] and relay clutch [B] from the bracket.



• Refer to the upper photo when reassembling the paper feed gear assembly.