

Vacuum Feed LCIT RT5100
Machine Code: D777-17

Field Service Manual
V1.1

March 2015

Revision History

This is the Revision History for the Vacuum Feed LCIT RT5100 service manual.






| Version | Date | Changes |
|----------|-------------|--|
| Ver. 1.1 | 31 Mar 2015 | <p>Text, Illustrations. In procedures the order of the text and illustrations has been reversed. For each step, the text description (action) is followed by the relevant illustration. The callouts [A], [B], [C] in text refer to the illustration below, not above.</p> <p>PSU cooling fans. The naming of PSU cooling fan 1, and PSU cooling fan 2 has been corrected.</p> |

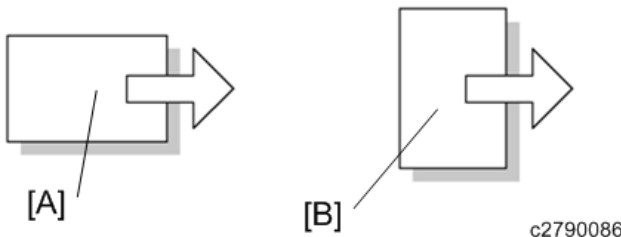
Safety, Conventions, Trademarks

Conventions

Common Terms

This is a list of symbols and abbreviations used in this manual.

| Symbol | What it means |
|---|------------------------|
|  | Screw |
|  | Connector |
|  | E-ring |
|  | Clip ring |
|  | Harness clamp |
| FFC | Flexible Film Cable |
| JG | Junction Gate |
| LE | Leading Edge of paper |
| LEF | Long Edge Feed |
| SEF | Short Edge Feed |
| TE | Trailing Edge of paper |



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

Warnings, Cautions, Notes

In this manual, the following important symbols and notations are used.

WARNING

- A Warning indicates a potentially hazardous situation. Failure to obey a Warning could result in death or serious injury.

CAUTION

- A Caution indicates a potentially hazardous situation. Failure to obey a Caution could result in minor or moderate injury or damage to the machine or other property.

Important

- Obey these guidelines to avoid problems such as misfeeds, damage to originals, loss of valuable data and to prevent damage to the machine.

Note

- This information provides tips and advice about how to best service the machine.

Responsibilities of the Customer Engineer

Reference Material for Maintenance

- Maintenance shall be done using the special tools and procedures prescribed for maintenance of the machine described in the reference materials (service manuals, technical bulletins, operating instructions, and safety guidelines for customer engineers).
- Use only consumable supplies and replacement parts designed for use of the machine.

The Aim of Anti-tip Components and Precautions

The anti-tip components are necessary for meeting the requirements of IEC60950-1, the international standard for safety.

The aim of these components is to prevent heavy products as a result of people running into or leaning onto the products. This can lead to serious accidents such as persons becoming trapped under the product. (U.S.: UL60950-1, Europe: EN60950-1)

Therefore, removal of such components must always be with the consent of the customer. Never remove them without the customer's consent.

TABLE OF CONTENTS

| | |
|---|----|
| Revision History..... | 1 |
| Safety, Conventions, Trademarks..... | 2 |
| Conventions..... | 2 |
| Common Terms..... | 2 |
| Warnings, Cautions, Notes..... | 3 |
| Responsibilities of the Customer Engineer..... | 3 |
| Reference Material for Maintenance..... | 3 |
| The Aim of Anti-tip Components and Precautions..... | 3 |
| 1. Replacement and Adjustment | |
| Exterior Covers..... | 7 |
| Right Upper Cover..... | 7 |
| Right Lower Cover..... | 7 |
| Rear Right Cover..... | 8 |
| Rear Left Cover..... | 8 |
| Left Top Cover..... | 9 |
| Center Top Cover..... | 10 |
| Right Top Cover..... | 10 |
| Front Corner Cover..... | 11 |
| Rear Corner Cover..... | 12 |
| Front Door..... | 13 |
| Upper Inner Cover..... | 13 |
| Lower Inner Cover..... | 15 |
| Tray Front Cover (Tray 1, 2)..... | 15 |
| Paper Feed Unit (Trays 1, 2)..... | 16 |
| Paper Tray..... | 16 |
| Paper Feed Belt Unit..... | 16 |
| Paper Feed Belt..... | 19 |
| Paper End Sensor..... | 22 |
| Paper Feed Sensor..... | 23 |
| Transport Roller Unit..... | 25 |
| Float/Separation Fan Duct..... | 26 |
| Float Fan..... | 27 |
| Re-installation..... | 27 |

| | |
|--|----|
| Separation Fan..... | 27 |
| Re-installation..... | 28 |
| Float Fan Shutter Solenoid..... | 28 |
| Paper Upper Limit Sensor 1, 2..... | 28 |
| Main Paper Remaining Sensor..... | 29 |
| Sub Paper Remaining Sensor..... | 30 |
| Paper Lower Limit Sensor..... | 31 |
| LCIT Paper Length Sensor 1 and 2..... | 32 |
| Tray Upper Limit Sensor..... | 33 |
| Side Fences (Front, Rear)..... | 35 |
| Common Procedure for Removing the Side Fences (Front, Rear)..... | 35 |
| Side Fence (Front)..... | 38 |
| Side Fence (Rear)..... | 41 |
| Paper Size Sensors..... | 44 |
| Side Fan..... | 45 |
| Side Fan Shutter Solenoid..... | 47 |
| Rear Side..... | 48 |
| Main Board..... | 48 |
| Tray 1 Pickup Belt Motor..... | 48 |
| Re-installation..... | 49 |
| Tray 1 Grip Motor..... | 50 |
| Re-installation..... | 51 |
| Tray 2 Pickup Belt Motor..... | 51 |
| Tray 2 Grip Motor..... | 52 |
| Suction Fan 1, 2 (Tray 1, 2)..... | 53 |
| LCIT Lift Motor (Tray 1, 2)..... | 54 |
| Bypass Transport Motor 2..... | 55 |
| Re-installation..... | 56 |
| Transport Motor Cooling Fan..... | 57 |
| Re-installation..... | 58 |
| Vertical Feed Unit..... | 59 |
| Vertical Feed Unit..... | 59 |
| Re-installation..... | 62 |

| | |
|--|----|
| Tray 1 Vertical Transport Motor 1 | 63 |
| Tray 1 Vertical Transport Motor 2 | 63 |
| Tray 1 Transport Sensor | 64 |
| Tray 1 Vertical Transport Sensor | 66 |
| Tray 2 Vertical Transport Motor 1 | 67 |
| Tray 2 Vertical Transport Motor 2 | 68 |
| Re-installation | 68 |
| Tray 2 Vertical Transport Sensor | 69 |
| Tray 2 Transport Sensor | 70 |
| Vertical Transport Exit Motor | 72 |
| Re-installation | 73 |
| Bypass Transport Sensor 2 | 74 |
| LCIT Exit Motor | 74 |
| LCIT Exit Roller Contact Motor | 75 |
| Re-installation | 76 |
| LCIT Exit Sensor | 76 |
| LCIT Exit Roller Contact Sensor | 77 |
| Vertical Transport Unit Cooling Fan | 78 |
| Vertical Transport Unit Cooling Fan Re-installation | 79 |
| PSU Box | 81 |
| PSU box | 81 |
| PSU 1, 2 | 81 |
| PSU Cooling Fan 1, 2 | 83 |
| Interlock Switch | 84 |
| AC Drive Board | 85 |
| Fuses on the PSU and AC drive board that can be replaced | 86 |

1. Replacement and Adjustment

Exterior Covers

1

Right Upper Cover

1. Open the paper tray 1 slightly.
2. Right upper cover [A] (⚙️ x4)



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Right Lower Cover

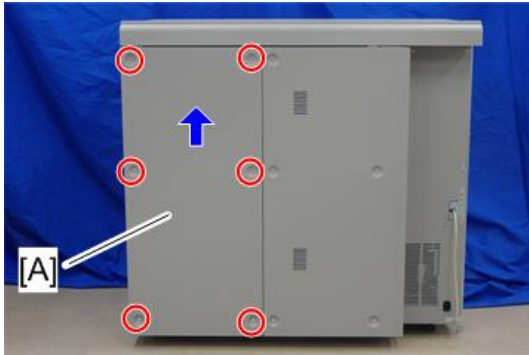
1. Open the paper trays 1 and 2 slightly.
2. Right lower cover [A] (⚙️ x5)



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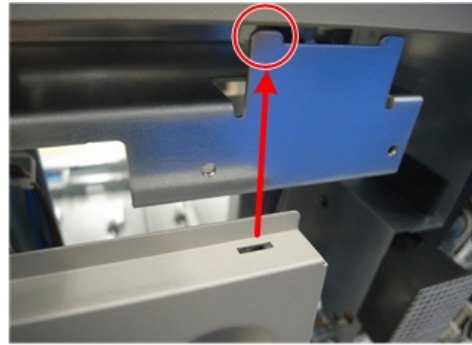
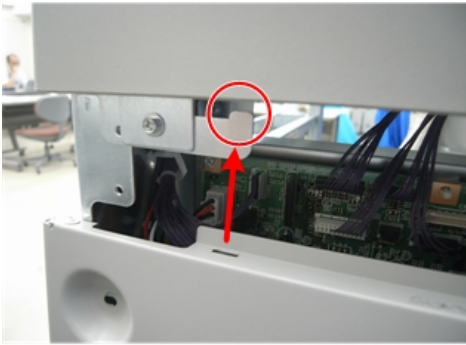
Rear Right Cover

1. Lift the rear right cover [A] slightly and remove it (⌀ x6).



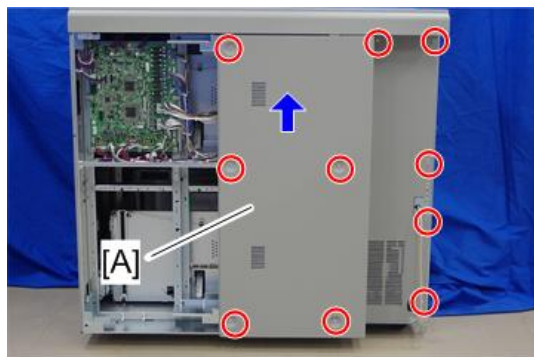
Note

- When attaching the rear right cover, hang it on the hook.



Rear Left Cover

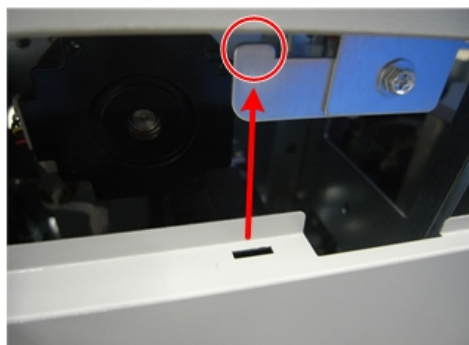
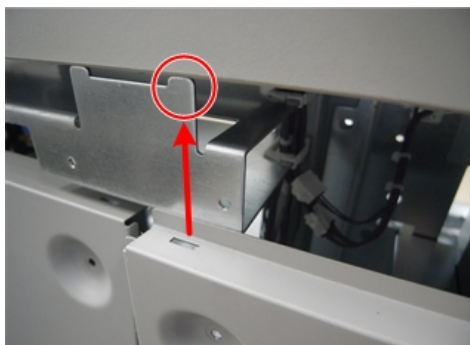
1. Rear right cover (page 8 "Rear Right Cover")
2. Lift the rear left cover [A] slightly and remove it (⌀ x10).



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↓ **Note**

- When attaching the rear left cover, hang it on the hook.



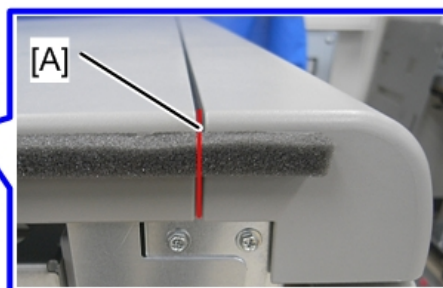
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Left Top Cover

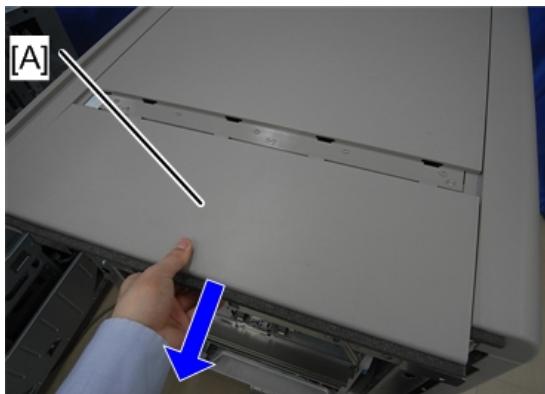
1. Cut the cushion at the position [A] along the groove.
2. Remove the screws on the left top cover (⌀ x2).



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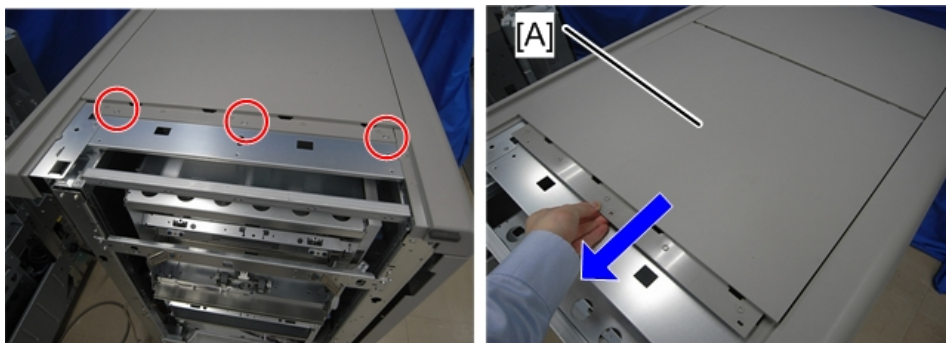
- Slide the left top cover [A] in the direction of the blue arrow and remove it.



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Center Top Cover

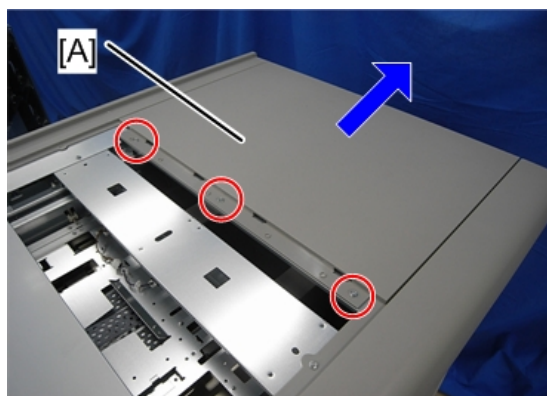
- Left top cover (page 9 "Left Top Cover")
- Slide the center top cover [A] in the direction of the blue arrow and remove it (⚙️ x3).



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Right Top Cover

- Left top cover (page 9 "Left Top Cover")
- Center top cover (page 10 "Center Top Cover")
- Slide the right top cover [A] in the direction of the arrow and remove it (⚙️ x3).

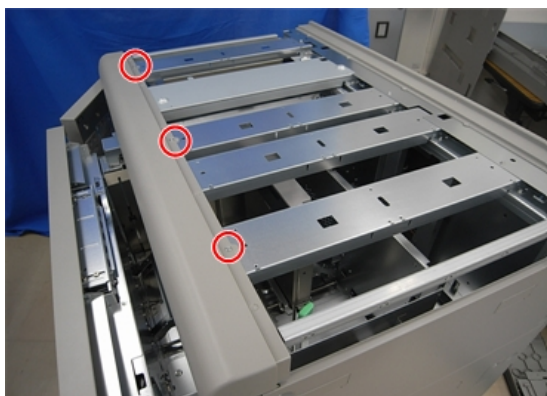


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1

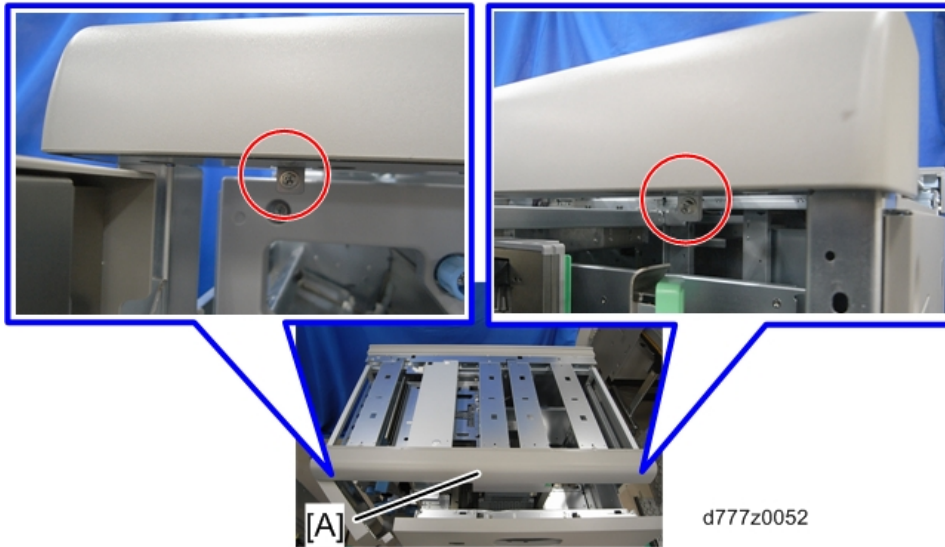
Front Corner Cover

1. Left top cover (page 9 "Left Top Cover")
2. Center top cover (page 10 "Center Top Cover")
3. Right top cover (page 10 "Right Top Cover")
4. Remove the screws at the top of the front corner (⌀ x3).

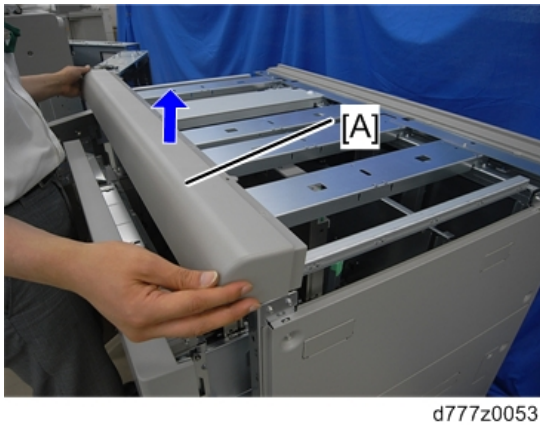


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5. Remove the screws at the bottom of the front corner [A] (⌀ x2).

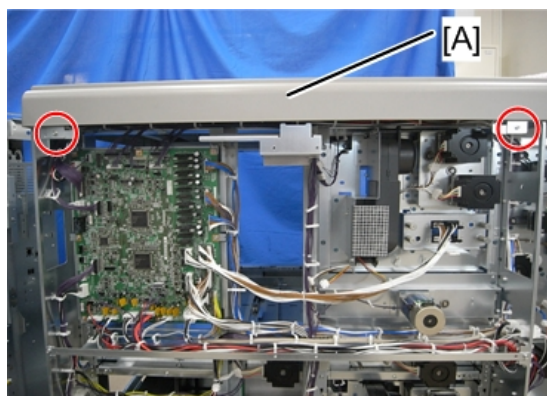


6. Lift the front corner cover [A] and remove it.



Rear Corner Cover

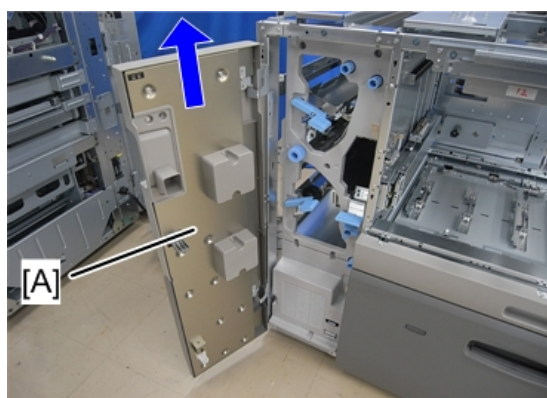
1. Left top cover (page 9 "Left Top Cover")
2. Center top cover (page 10 "Center Top Cover")
3. Right top cover (page 10 "Right Top Cover")
4. Remove the rear right and rear left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
5. Rear corner cover [A] (⌀ x2)



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Front Door

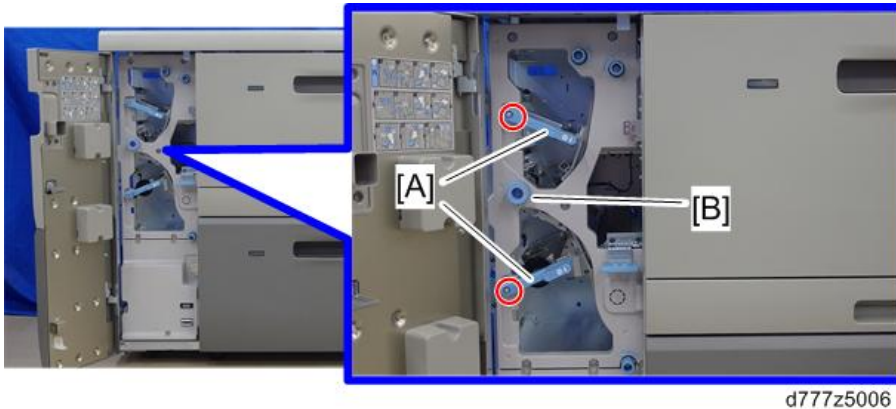
1. Left top cover (page 9 "Left Top Cover")
2. Center top cover (page 10 "Center Top Cover")
3. Right top cover (page 10 "Right Top Cover")
4. Front corner cover (page 11 "Front Corner Cover")
5. Lift the front door [A] and remove it.



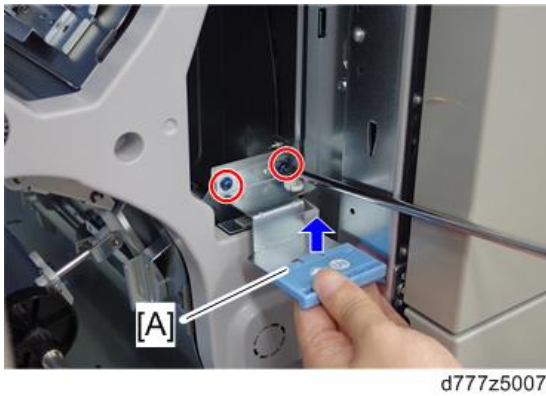
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Upper Inner Cover

1. Open the front door.
2. Remove the two levers [A] (⊗ x1 each).
3. Knob [B] (⊗ x1)

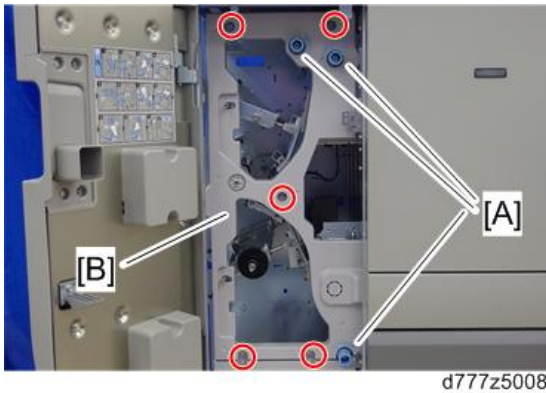


4. Raise the paper jam U9 clearing plate and remove the knob [A] (⚙️ x2).



5. Three knobs [A] (⚙️ x1 each)

6. Upper inner cover [B] (⚙️ x5)



Lower Inner Cover

1. Open the front door.
2. Lower inner cover [A] (⌀ x3)

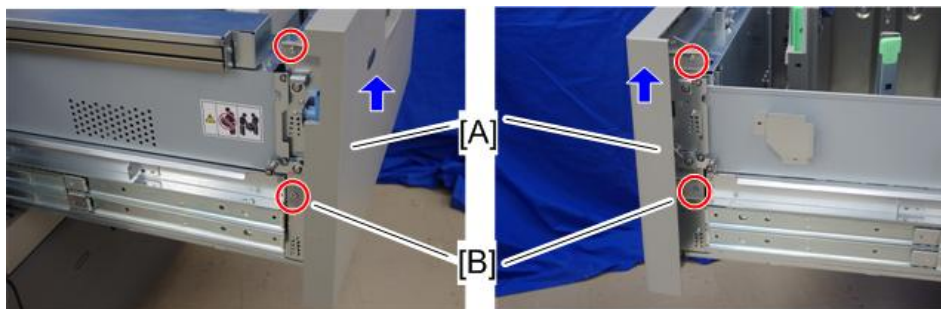


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Tray Front Cover (Tray 1, 2)

Note

- The replacement procedure for tray front cover of tray 1 and 2 are the same. The following is the procedure for replacing the tray front cover of tray 1.
1. Pull out the paper tray.
 2. Lift the tray front cover [A] and remove it (⌀ x4).
 - The lower screw [B] is a shoulder screw.



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Paper Feed Unit (Trays 1, 2)

↓ Note

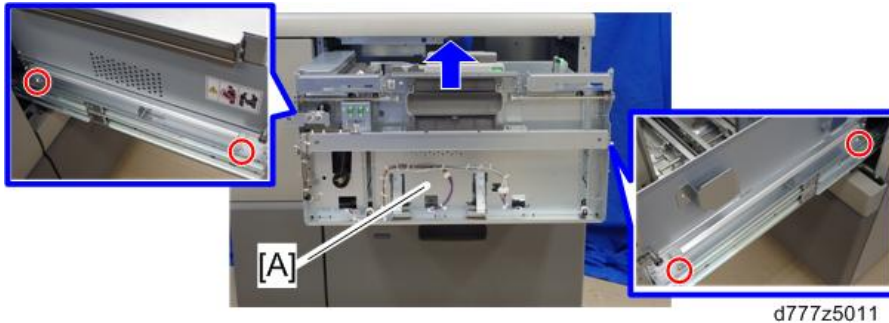
- Do not pull out all trays in the vacuum feed LCIT RT5100 (when it is not linked to the main unit) because it could fall over.

↓ Note

- Parts in paper trays 1 and 2 can be removed using the same procedure. The following are the procedures for replacing the parts in tray 1.

Paper Tray

1. Tray front cover (page 15 "Tray Front Cover (Tray 1, 2)")
2. Paper tray (🔧 x4)



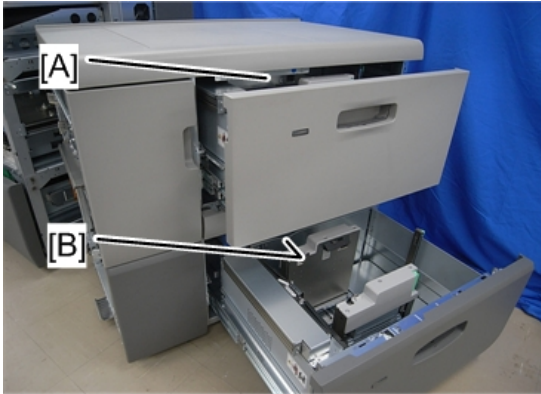
★ Important

- The tray weighs about 30 kg. It is heavy and requires careful handling by two persons.

Paper Feed Belt Unit

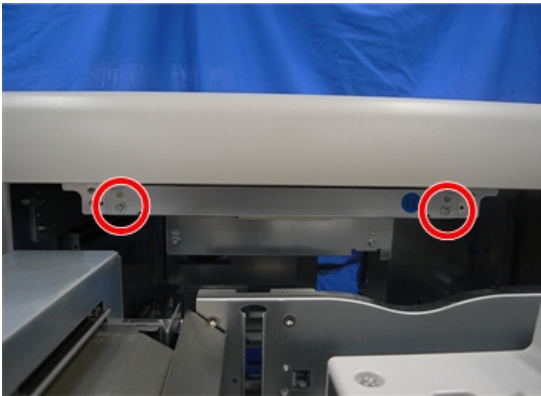
[A]: Tray 1 paper feed belt unit

[B]: Tray 2 paper feed belt unit



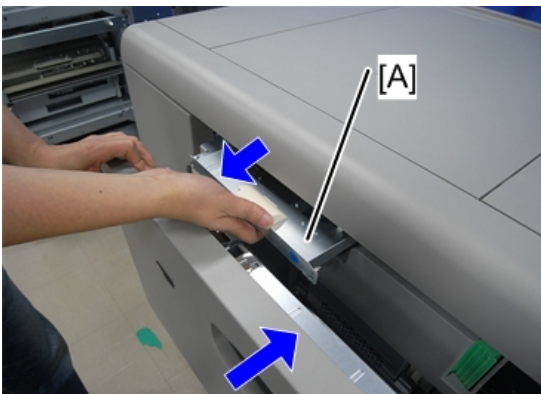
d777z0039

1. Open the paper tray.
2. Remove the lock of the paper feed belt unit (⊗ x2).



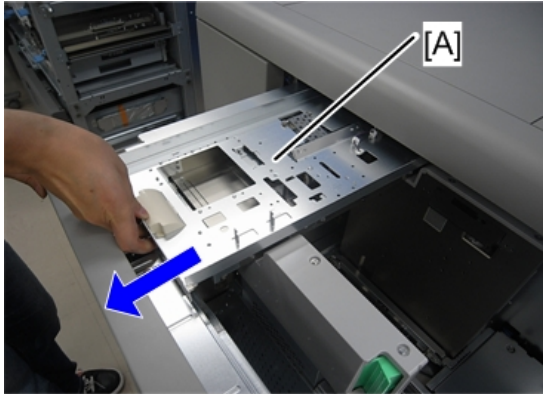
d777z0023

3. Hold the knob of the paper feed belt unit [A] and close the paper tray halfway.



d777z0024

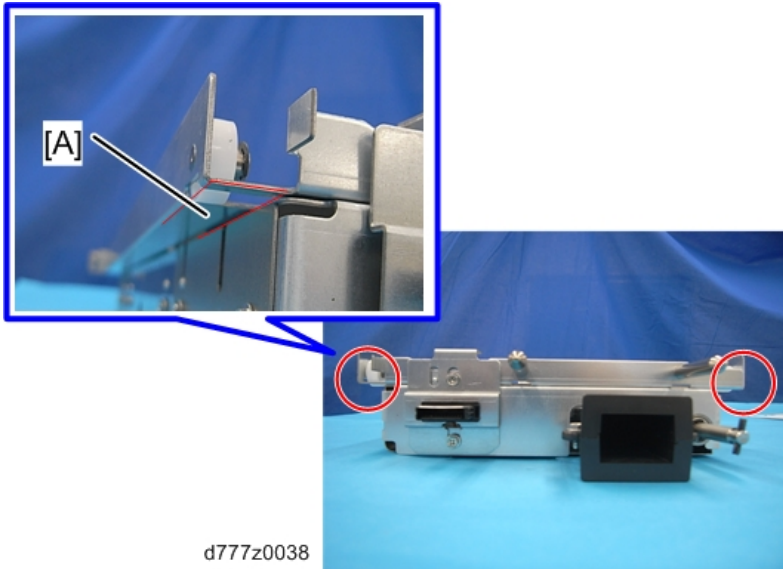
4. Pull out the paper feed belt unit [A] and the paper tray together.



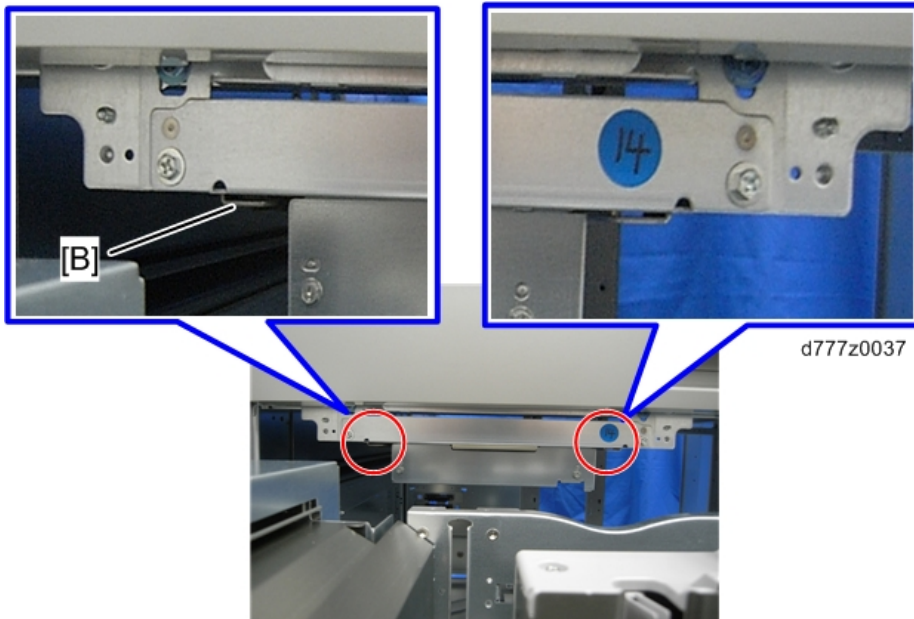
d777z0025

Note

- The paper feed belt unit must be pulled out horizontally relative to the paper tray, to ensure that the paper feed belt is not damaged by getting caught in the side fences or other parts.
- To prevent damaging the paper feed belt when you return the paper feed belt unit to its original position, align the right and left guides [A] with the rail [B] on the paper tray side and raise them slightly before replacing the unit.

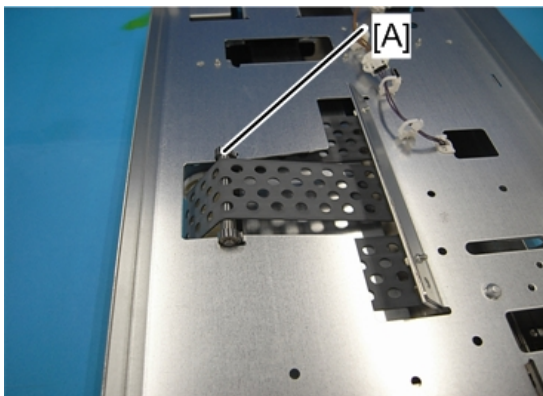


d777z0038



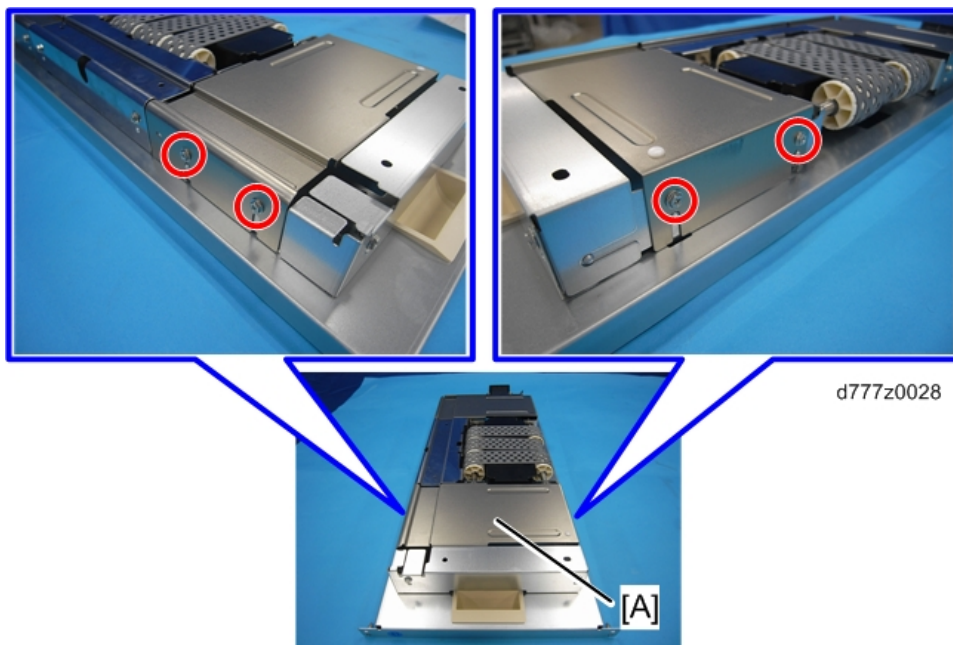
Paper Feed Belt

1. Paper feed belt unit (page 16 "Paper Feed Belt Unit")
2. Shaft [A]

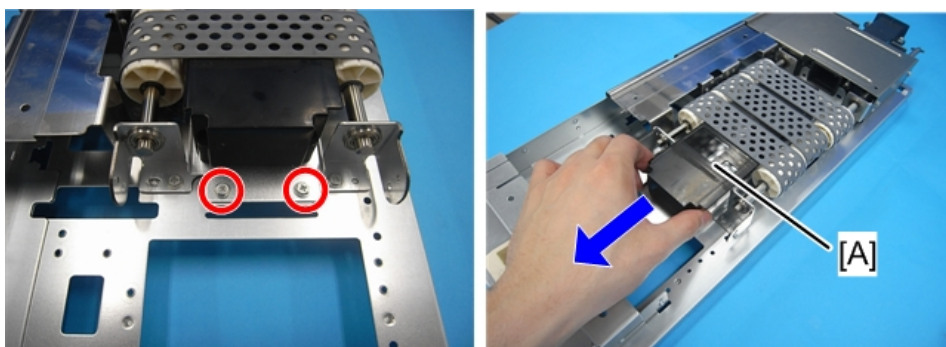


3. Guide plate [A] (🔩 x4)

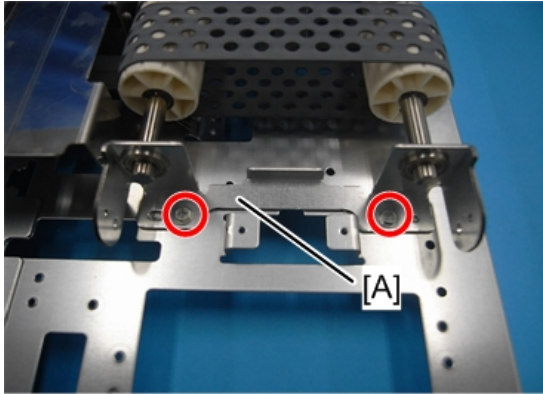
1



4. Pull out the chamber [A] (⚙️ x2).

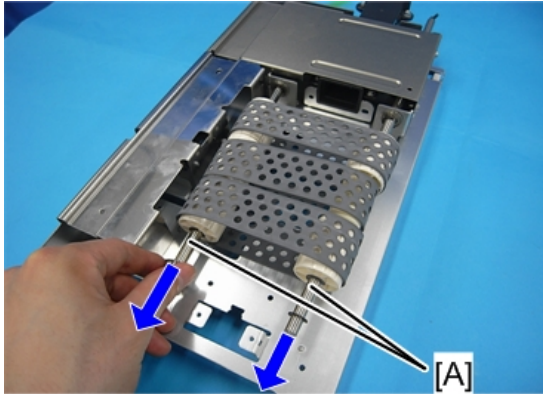


5. Bracket [A] (⚙️ x2)

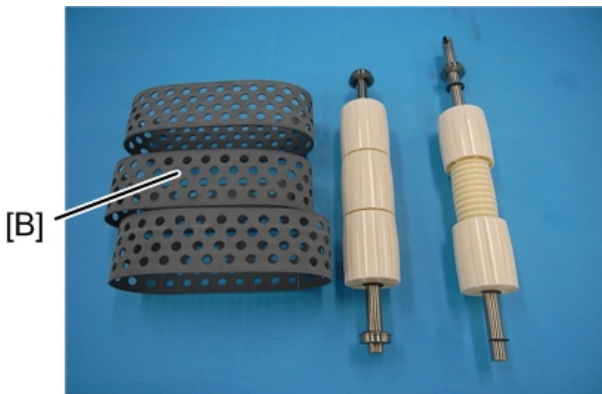


d777z0030

6. Remove the belt shaft [A] and the paper feed belt [B].



d777z0031

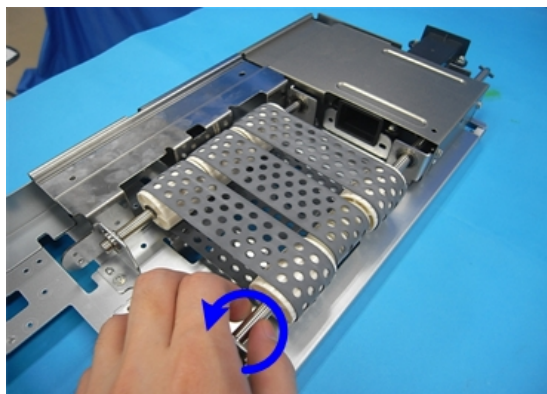


d777z0032

↓ Note

- During installation, turn the shaft to correct belt deflection before installing the chamber.
- When all parts have been assembled, turn the shaft once more to check for deflection, resistance and other abnormalities before replacing the paper tray.

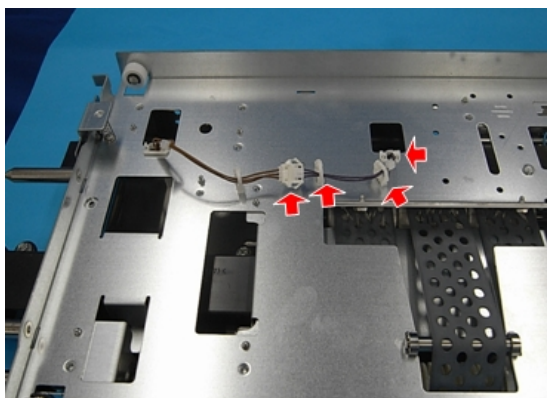
1



d777z0033

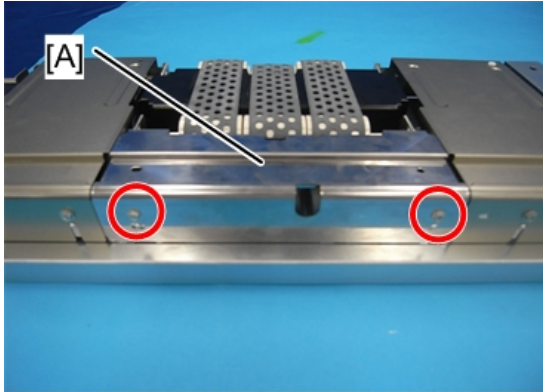
Paper End Sensor

1. Paper feed belt unit (page 16 "Paper Feed Belt Unit")
2. Rear harness (🔌x3, 📦x1)



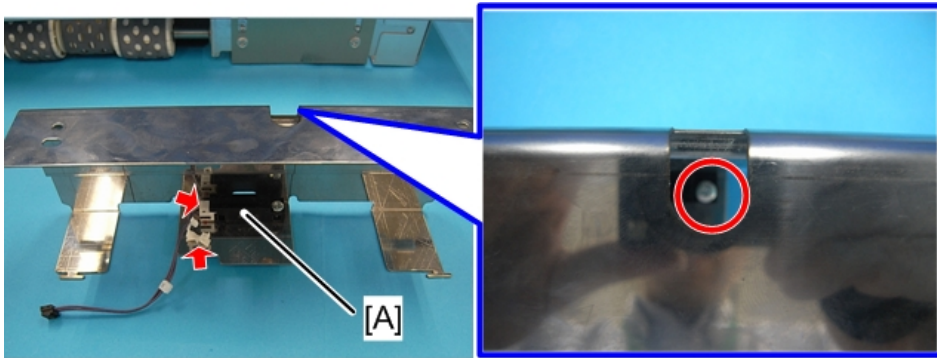
d777z0035

3. Center guide plate [A] (🔩x2)



d777z0034

4. Paper end sensor [A] (⚙️ x2, 📦 x1, 🔧 x1)



d777z0036

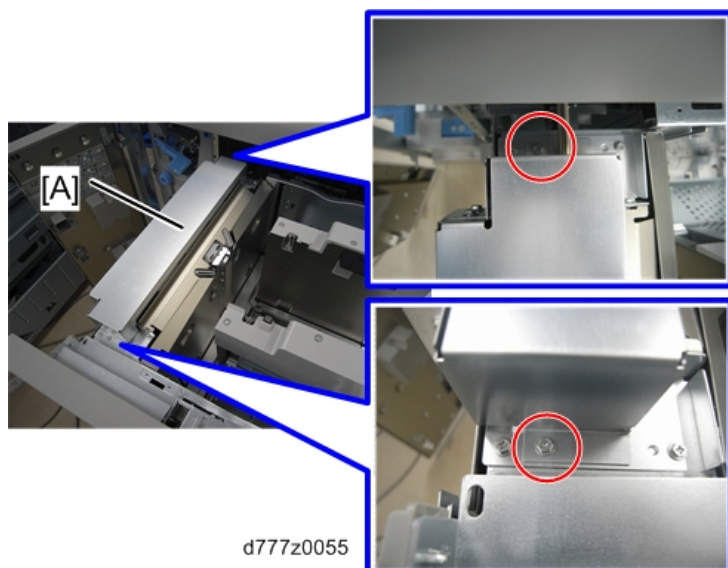
Paper Feed Sensor

↓ Note

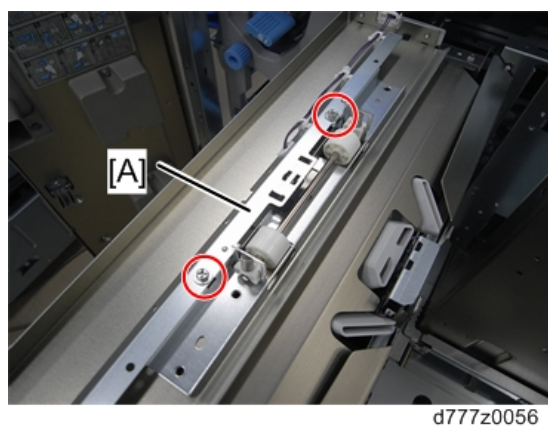
- The replacement procedures for the paper feed sensor of the tray 1 and 2 are the same. The following is the procedure for replacing the paper feed sensor of tray 1.

1. Pull out the paper tray.
2. Remove the top cover [A] of the transport roller unit (⚙️ x2).

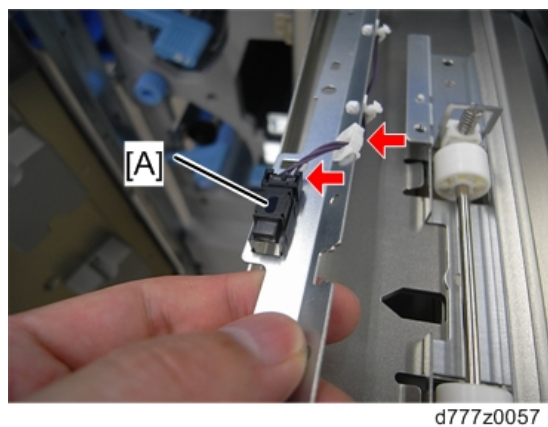
1



3. Paper feed sensor bracket [A] (🔩 x2)

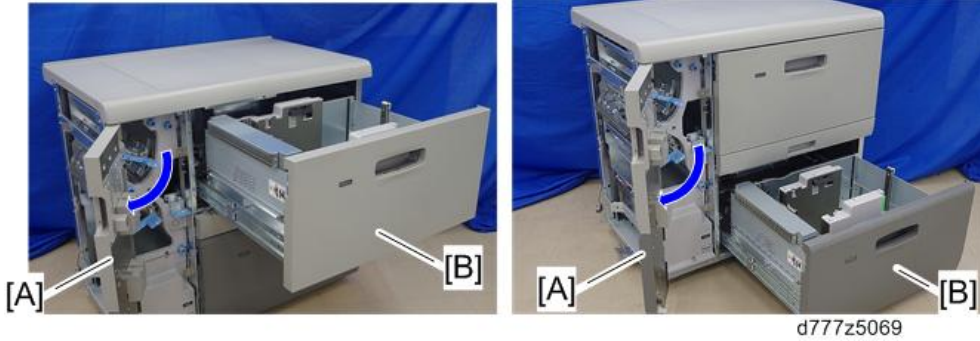


4. Paper feed sensor [A] (🔌 x1, 📦 x1)

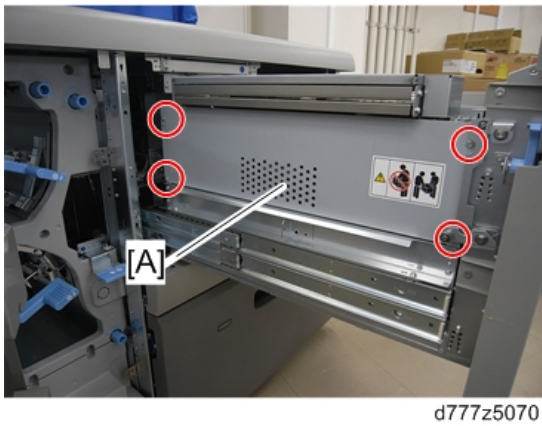


Transport Roller Unit

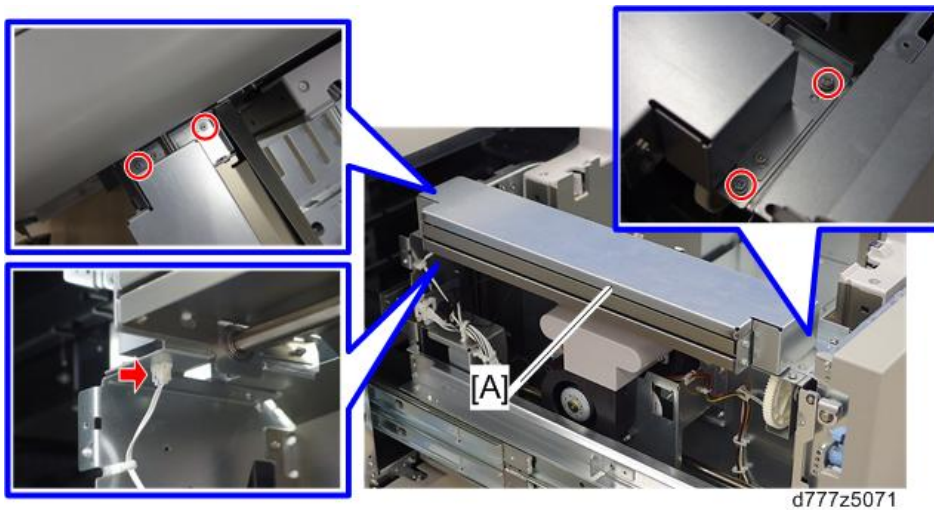
1. Open the front door [A] and pull out the paper tray [B].



2. Tray left top cover [A] (⚙️ x4)



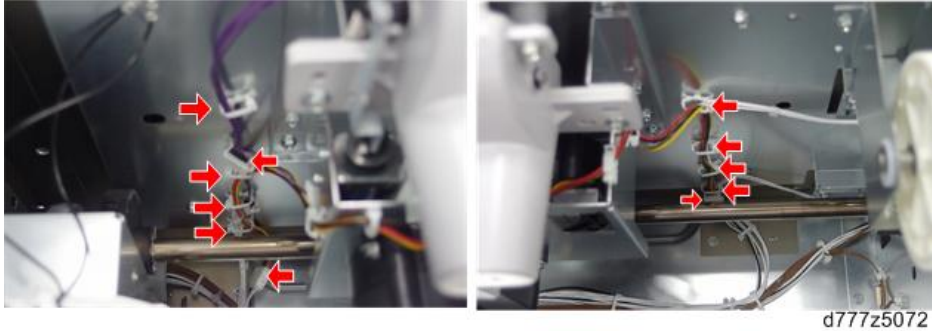
3. Disconnect relay connector, and then remove transport roller unit [A] (🔌 x1, ⚙️ x4)



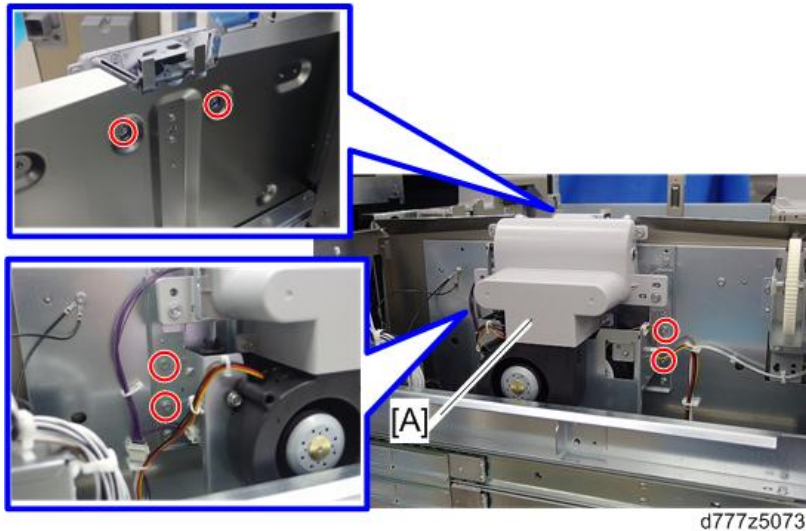
Float/Separation Fan Duct

1

1. Transport roller unit (page 25 "Transport Roller Unit")
2. Remove the eight clamps and the three connectors.



3. Remove the float/separation fan duct [A] (⌀6 x6).

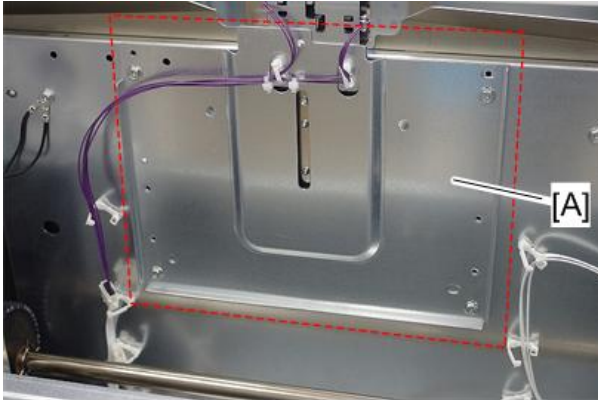


Note

- When installing the float/separation fan duct, connect the connectors before installing the duct. Installing the duct first will make it difficult to connect the connectors.

Important

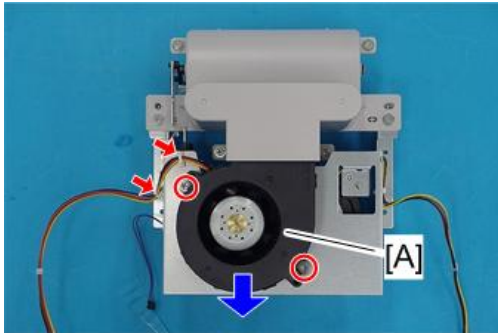
- Do not remove the bracket [A] that adjusts the position of the float/separation fan duct. This bracket is factory installed and cannot be adjusted outside the factory.



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Float Fan

1. Float/separation fan duct (page 26 "Float/Separation Fan Duct")
2. Float fan [A] (⚙️ x2, 🔧 x2)



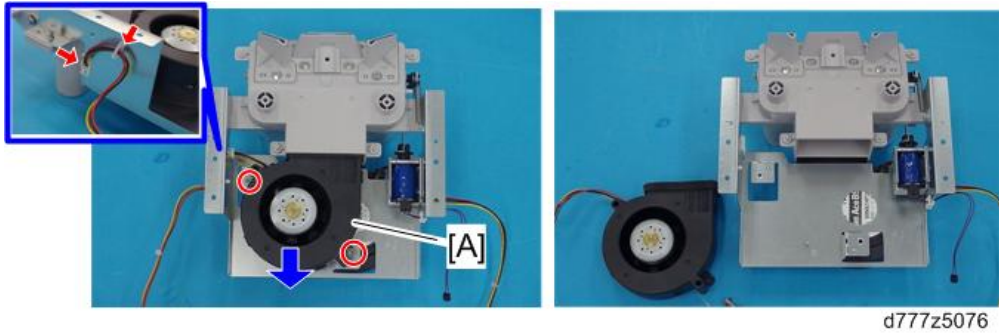
d777z5074

Re-installation

Install the float fan so that its label faces to the right.

Separation Fan

1. Float/separation fan duct (page 26 "Float/Separation Fan Duct")
2. Separation fan [A] (⚙️ x2, 🔧 x2)

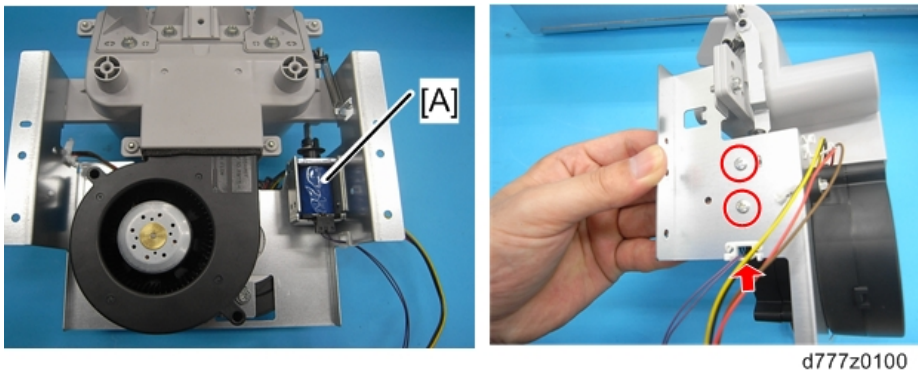


Re-installation

Install the separation fan so that its label faces to the left.

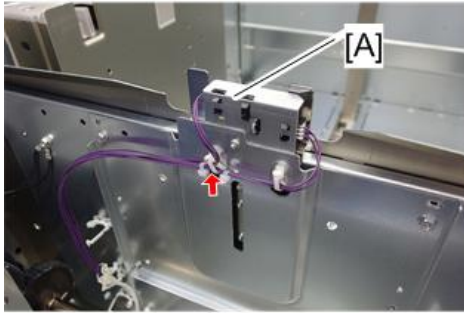
Float Fan Shutter Solenoid

1. Paper tray (page 16 "Paper Tray")
2. Transport roller unit (page 25 "Transport Roller Unit")
3. Float/separation fan duct (page 26 "Float/Separation Fan Duct")
4. Float fan shutter solenoid [A] (⚙️ x2, 🛠️ x1)



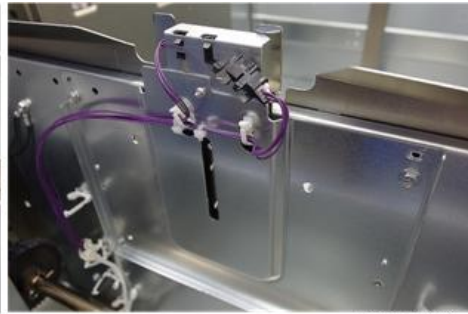
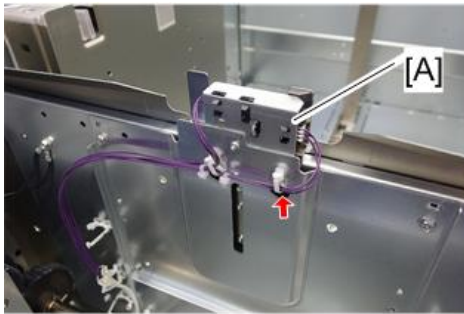
Paper Upper Limit Sensor 1, 2

1. Transport roller unit (page 25 "Transport Roller Unit")
2. Float/separation fan duct (page 26 "Float/Separation Fan Duct")
3. Paper upper limit sensor 1 [A] (🛠️ x1, 🛠️ x1)



d777z5077

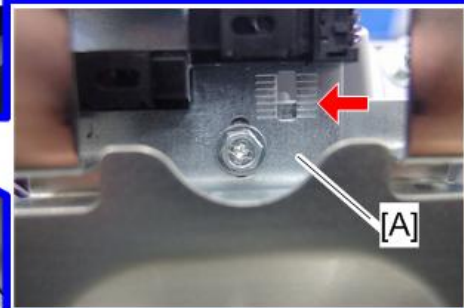
4. Paper upper limit sensor 2 [A] (⚙️ x1, 📦 x1)



d777z5078

★ Important

- The position of the paper upper limit sensor bracket [A] is adjusted at the factory. If it is removed, make sure that it is reinstalled in the same position.



d777z5079

Main Paper Remaining Sensor

1. Transport roller unit (page 25 "Transport Roller Unit")
2. Float/separation fan duct (page 26 "Float/Separation Fan Duct")
3. Use your fingers to hold the pulley [A] in place while you remove it [A].

1



d777z5084

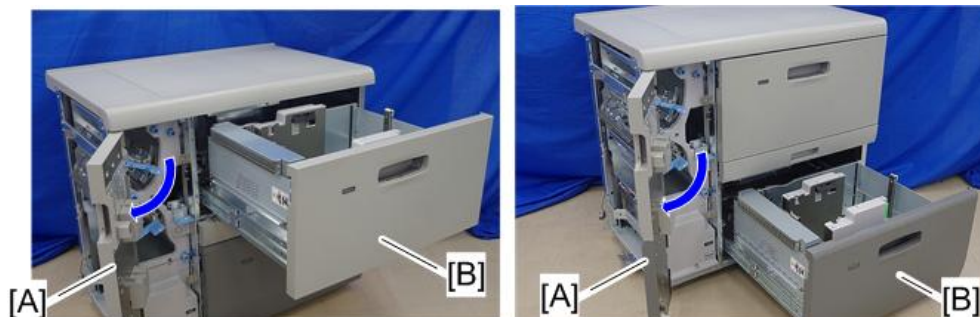
4. Main paper remaining sensor [A] (🔧 x1)



d777z5085

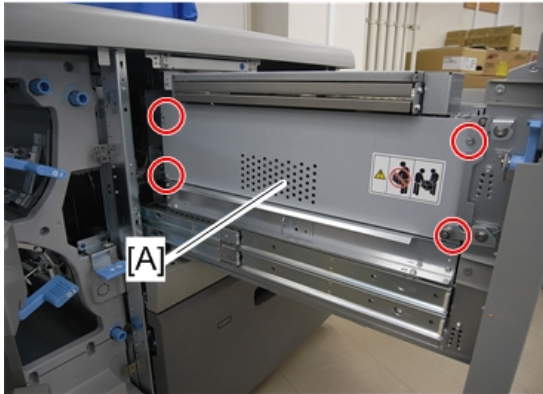
Sub Paper Remaining Sensor

1. Open the front door [A] and pull out the paper tray [B].



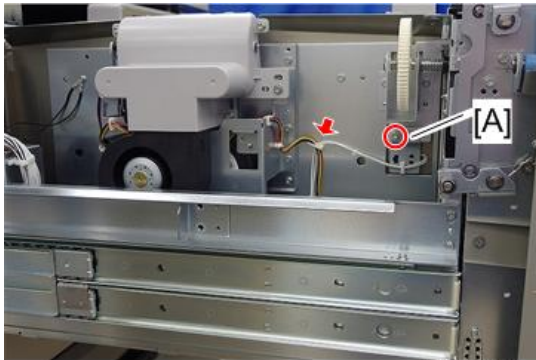
d777z5069

2. Tray left top cover [A] (🔧 x4)



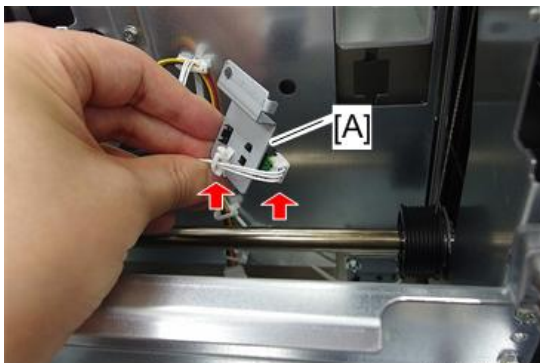
d777z5070

3. Sub paper remaining sensor bracket [A] (⚙️x1, ⚙️x1)



d777z5086

4. Sub paper remaining sensor [A] (⚙️x1, ⚙️x1)



d777z5087

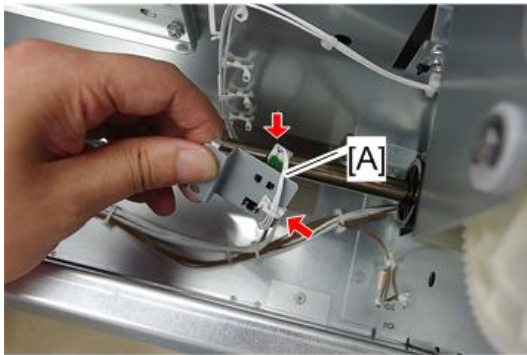
Paper Lower Limit Sensor

1. Transport roller unit (page 25 "Transport Roller Unit")
2. Paper lower limit sensor bracket [A] (⚙️x1)



d777z5088

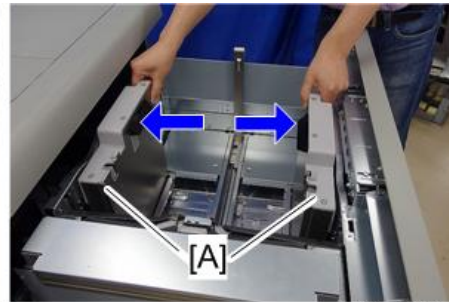
3. Paper lower limit sensor [A] (🔧 x1, 📦 x1)



d777z5089

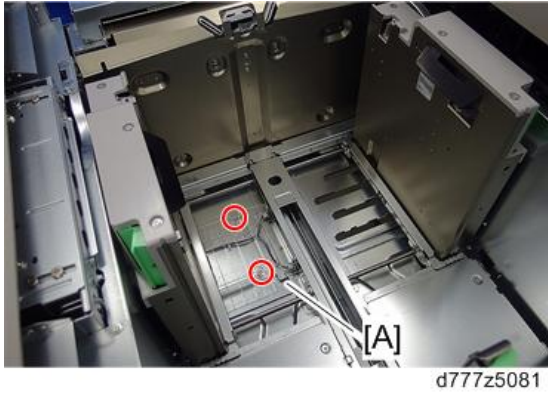
LCIT Paper Length Sensor 1 and 2

1. Open the paper tray.
2. Hold the side fence lock to open the side fence [A].

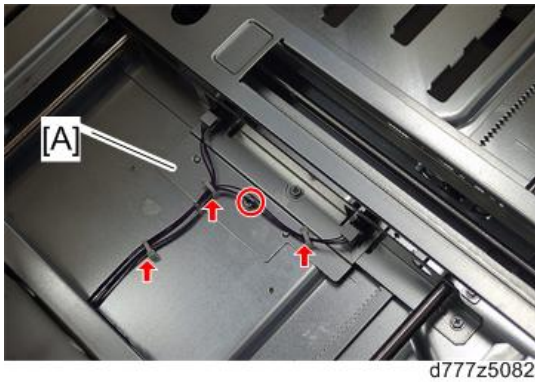


d777z5080

3. Sensor cover [A] (🔧 x2)

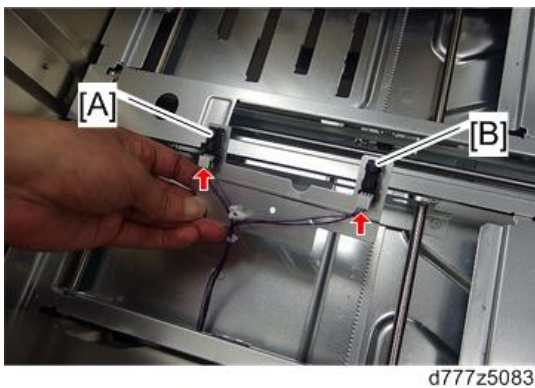


4. Sensor bracket [A] (🔧 x3, ⚙️ x1)



5. LCIT paper length sensor 1 [A] (📏 x1)

6. LCIT paper length sensor 2 [B] (📏 x1)



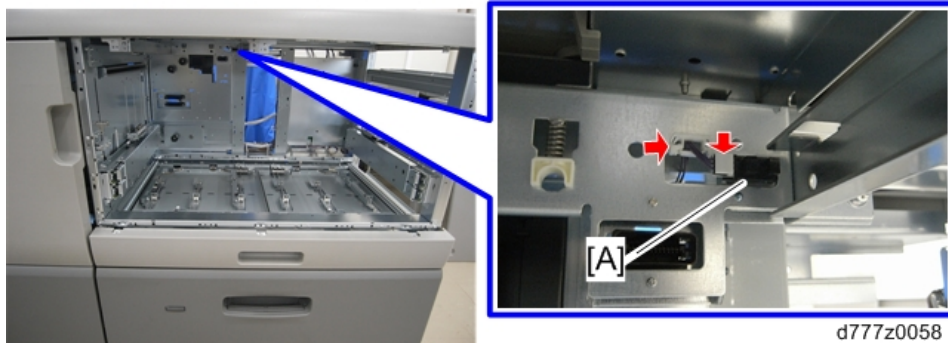
Tray Upper Limit Sensor

1. Paper tray (page 16 "Paper Tray")

2. Paper feed belt unit (page 16 "Paper Feed Belt Unit")

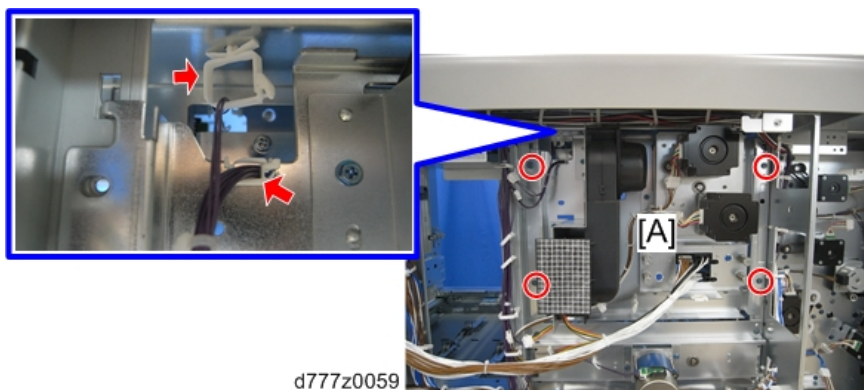
3. Tray upper limit sensor [A]

- The sensor pawl is on the rear of the frame. Access it from the rear of the main unit if it proves difficult to remove it from the front.

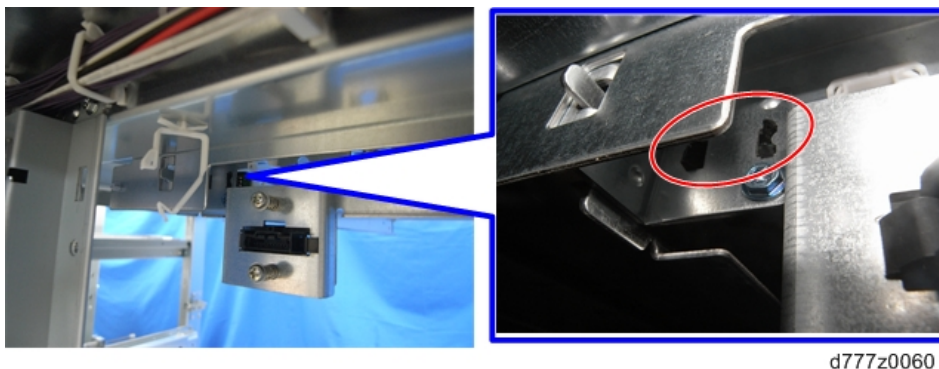


4. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").

5. Bracket [A] (⚙️x2, ⚙️x4)



6. Remove the pawl of the tray upper limit sensor.

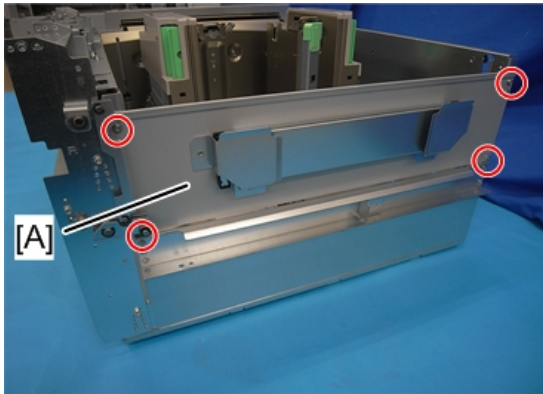


Side Fences (Front, Rear)

Common Procedure for Removing the Side Fences (Front, Rear)

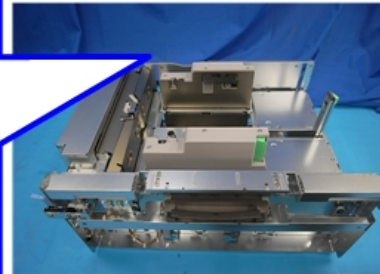
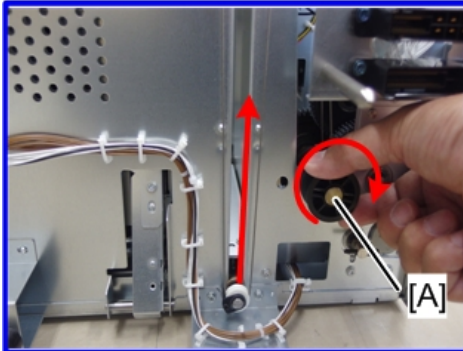
1

1. Tray front cover (page 15 "Tray Front Cover (Tray 1, 2)")
2. Paper tray (page 16 "Paper Tray")
3. Remove the plate [A] from the end fence side (⌀x4).

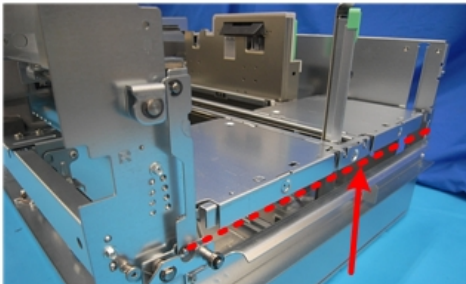


d777z0064

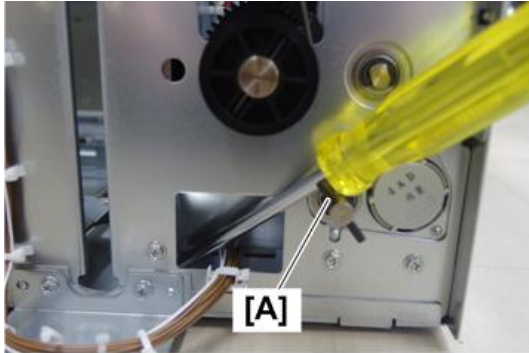
4. Turn the wire pick-up roller [A] at the rear of the paper tray in a clock-wise direction to raise the bottom plate until it becomes visible on the end fence side.



d777z0065

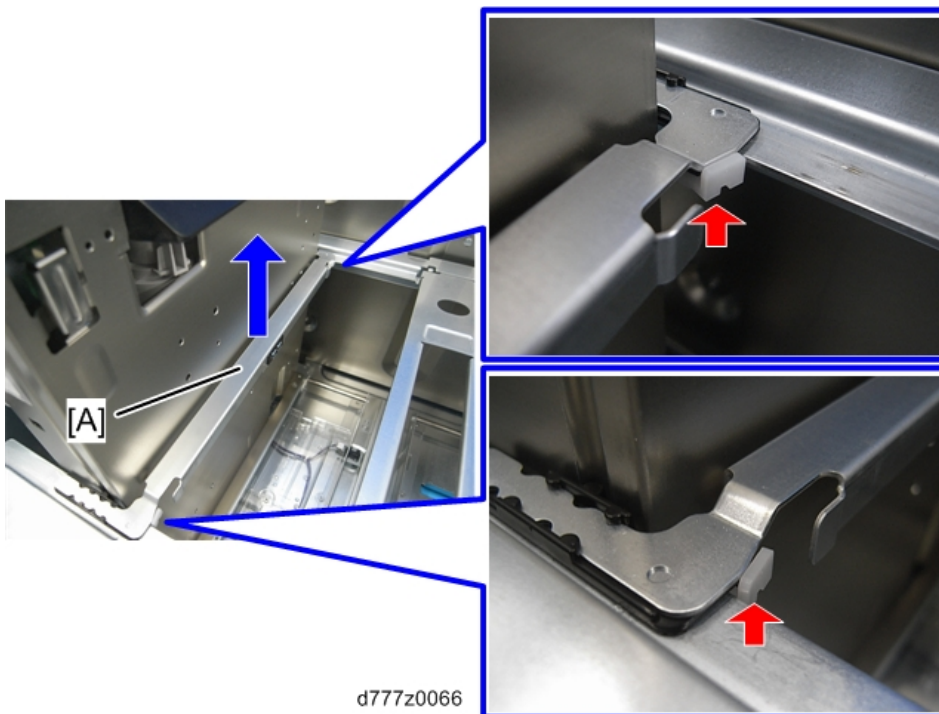


5. When the bottom plate has been raised, insert a screwdriver or similar object in the hole in the sheet metal at the bottom of the wire pick-up roller to prevent the pin [A] from turning.



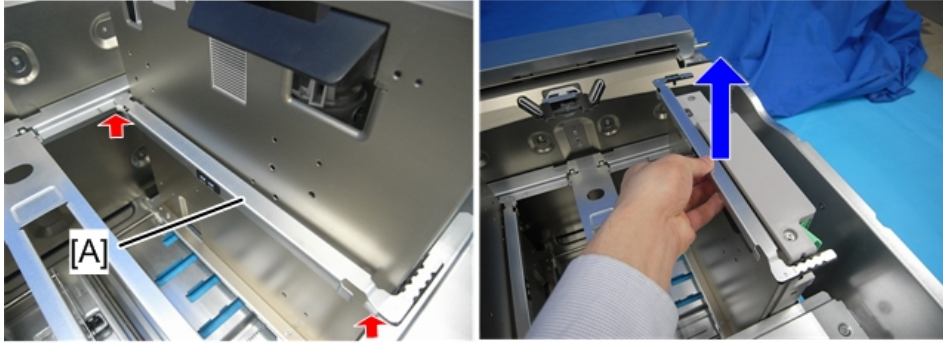
d194d9527

6. Remove the side fence guide [A] from the front side (⑧x2).



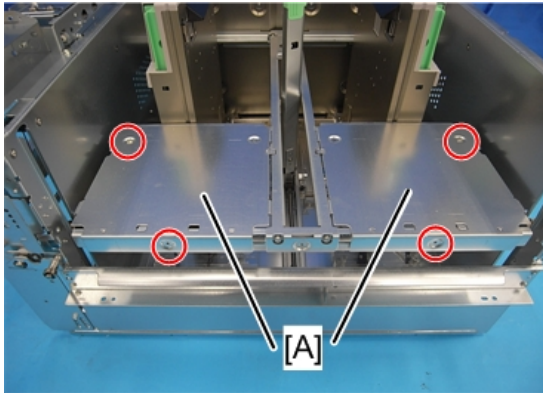
d777z0066

7. Remove the side fence guide [A] from the rear side (⑧x2).



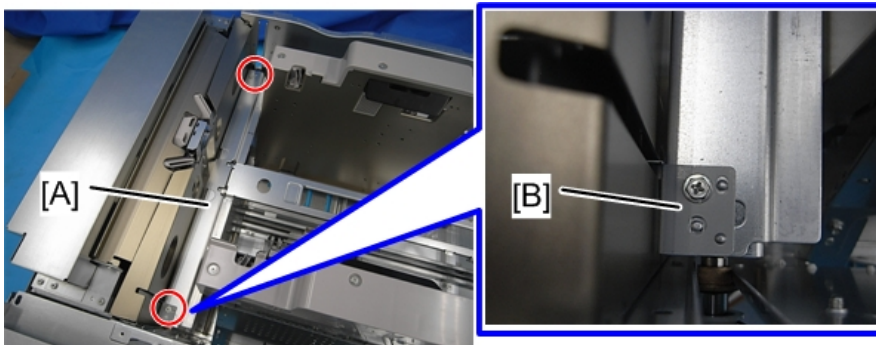
d777z0067

8. Two bottom plates [A] (⚙ x4)



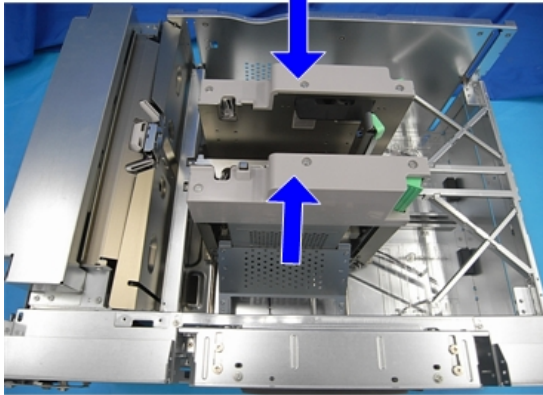
d777z0068

9. Remove the plate [A] from the paper feed side (⚙ x2). There is a bracket [B] at the front side.



d777z0069

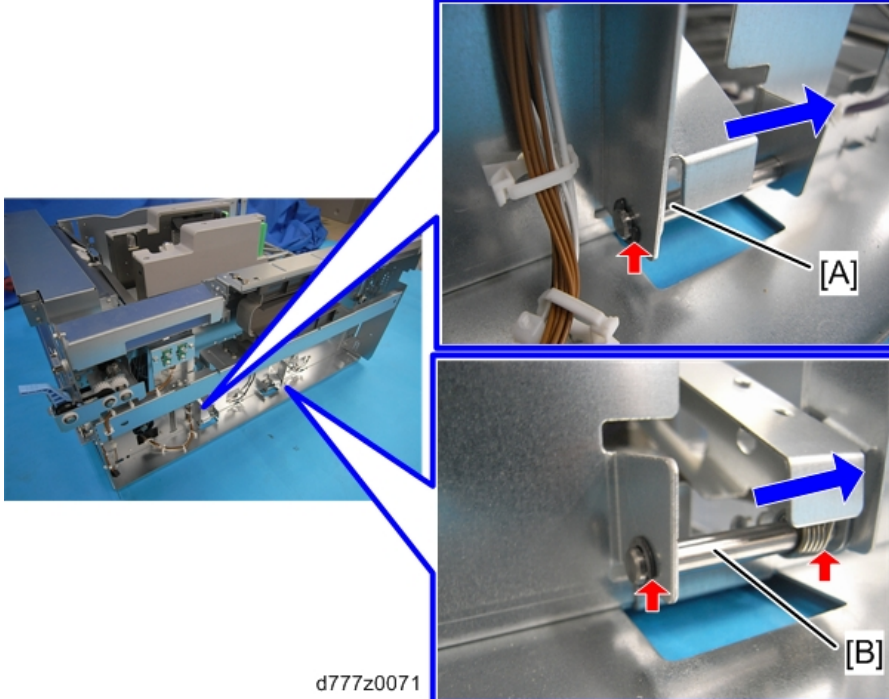
10. Fully close the side fence.



d777z0070

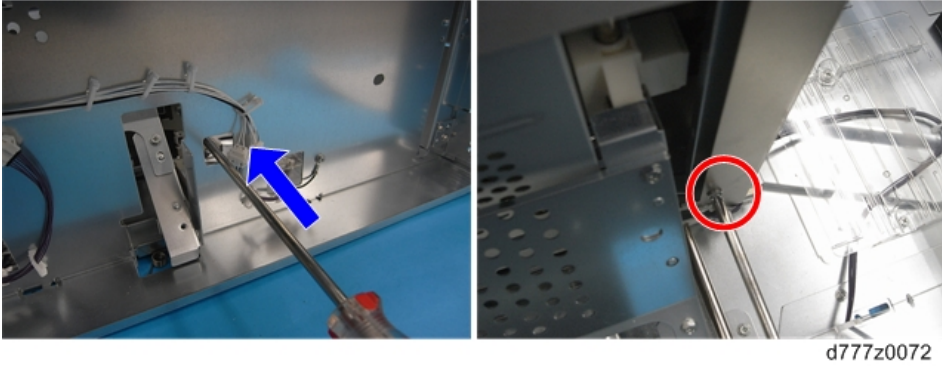
Side Fence (Front)

1. Do the common procedure for removing the side fences (Front, Rear). (page 35 "Common Procedure for Removing the Side Fences (Front, Rear)")
2. Remove the side fence shafts [A] and [B] on the front side (⌀x2). Pull out the shaft in the direction of the arrow. The [B] shaft has a spring.

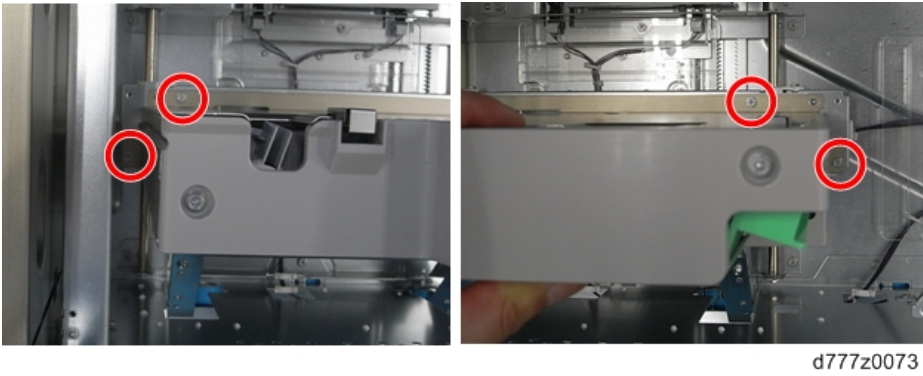


d777z0071

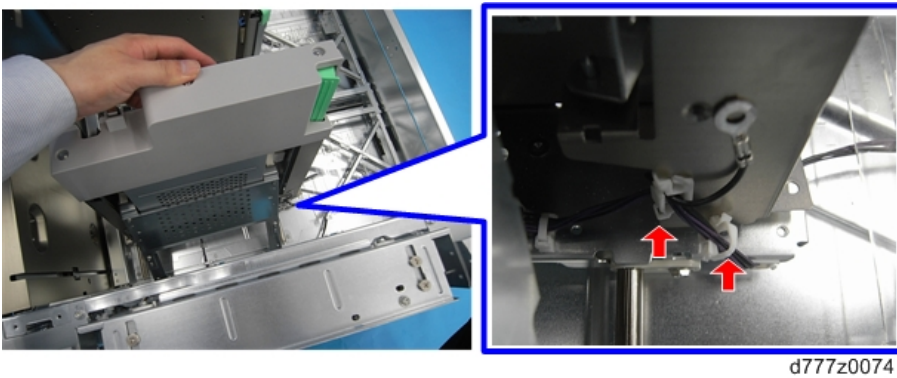
3. Insert a screwdriver in the opening in the frame and remove the ground connection (⌀x1).



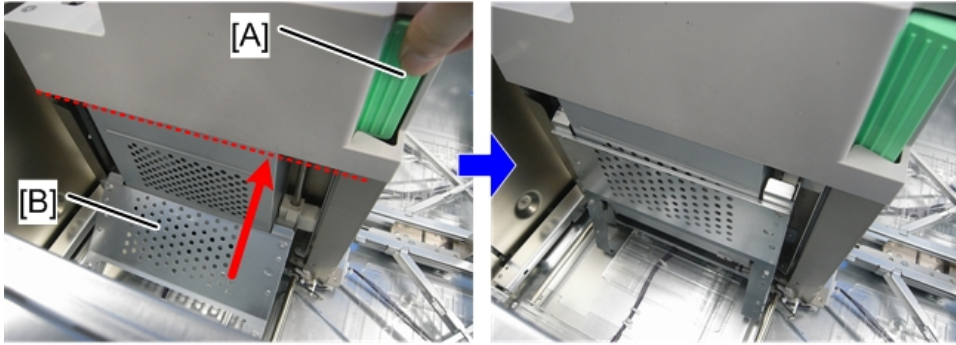
4. Remove the screws in the side fence (⌘x4).



5. Clamp (⌘x2)

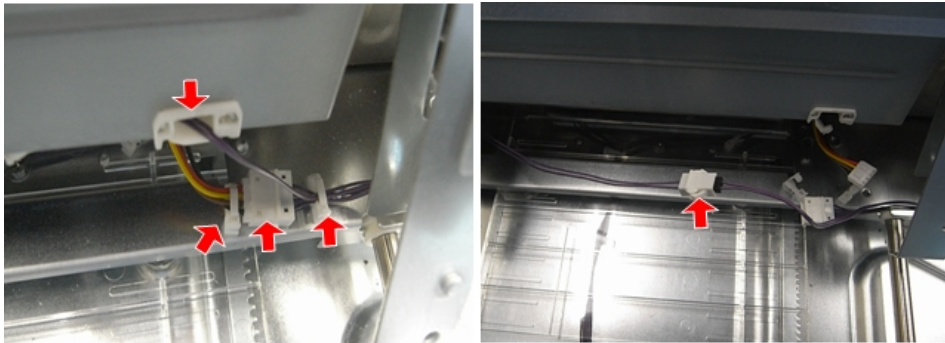


6. Hold down the lock lever [A] and raise the side fence [B].



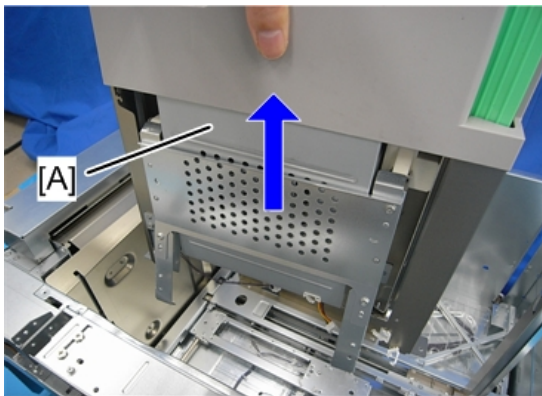
d777z0075

7. Remove the connector from the bottom of the side fence (🔌x3, 📦x2).



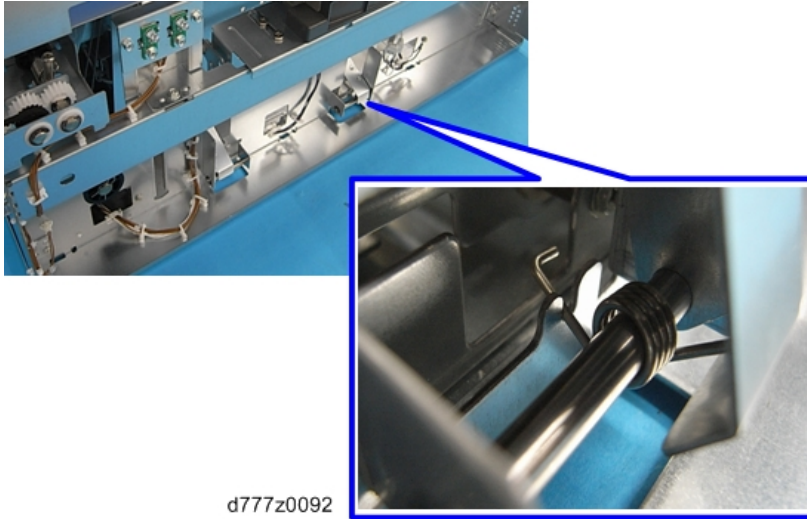
d777z0076

8. Raise the side fence (front) [A] and remove it.



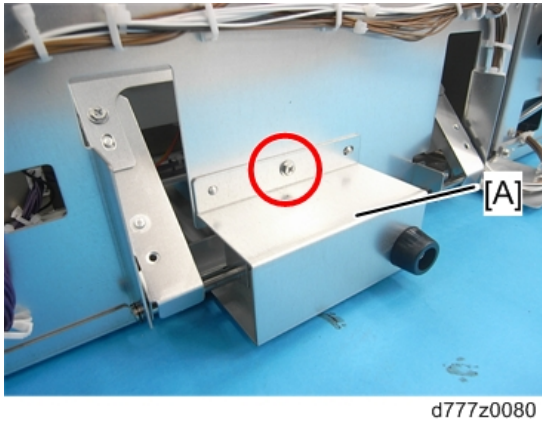
d777z0077

9. Install the spring on the end face shaft as shown in the photo.



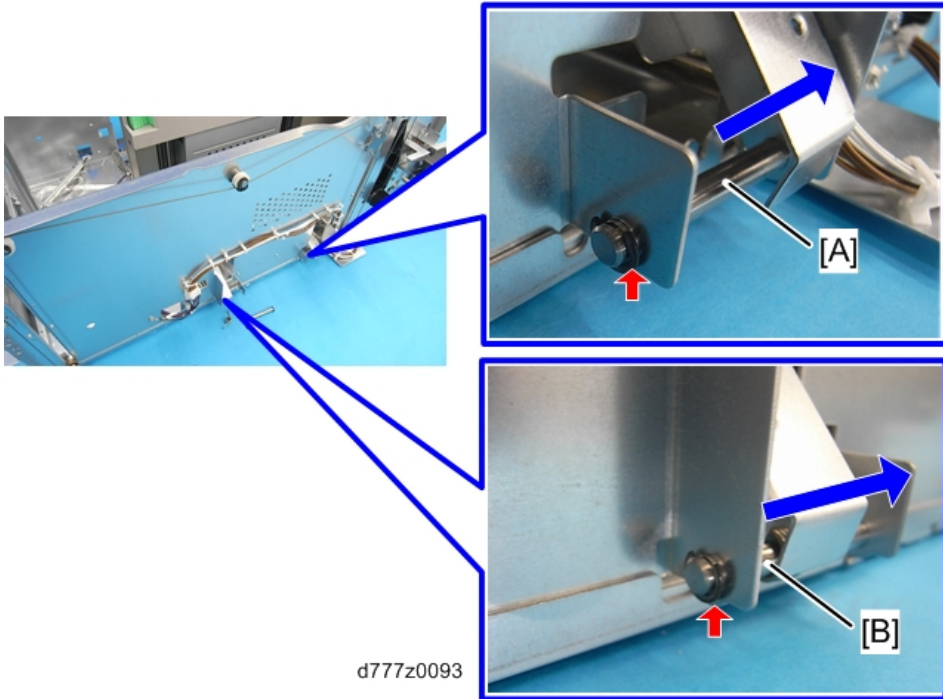
Side Fence (Rear)

1. Do the common procedure for removing the side fences (Front, Rear). (page 35 "Common Procedure for Removing the Side Fences (Front, Rear)")
2. Bracket [A] (⌚ x1)

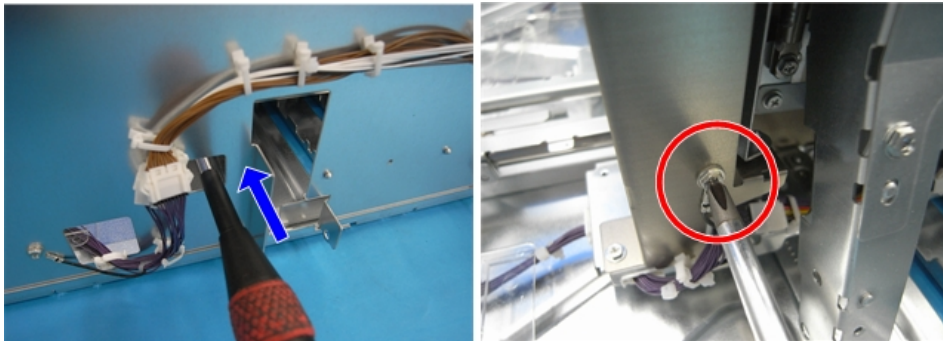


3. Remove the side fence shafts [A] and [B] on the rear side (⌚ x2). Pull out the shaft in the direction of the arrow. The [B] shaft has a spring.

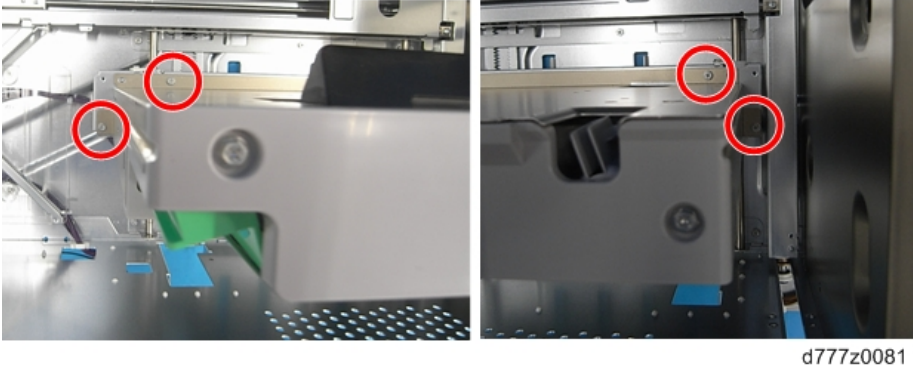
1



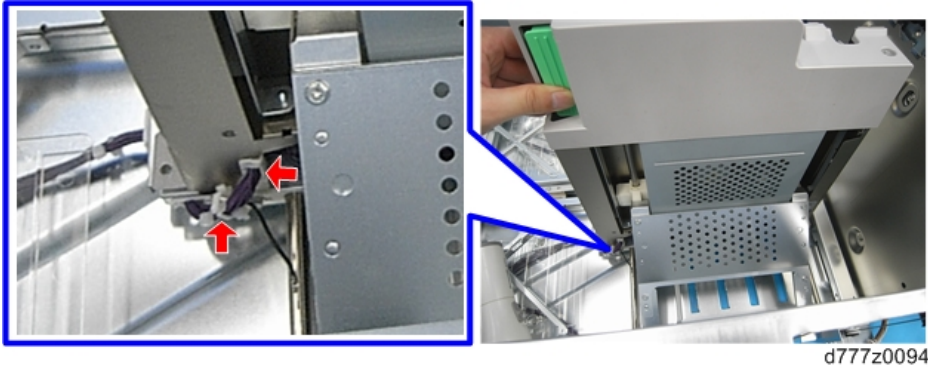
4. Insert a screwdriver in the opening in the frame and remove the ground connection (⌀x1).



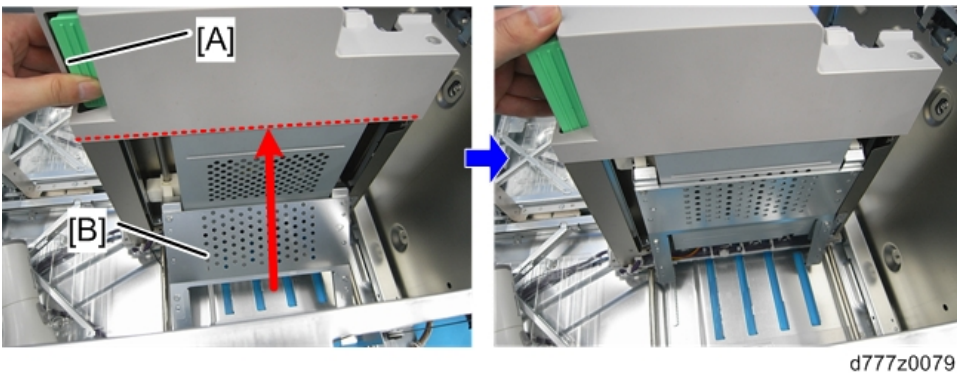
5. Remove the screws in the side fence (⌀x4).



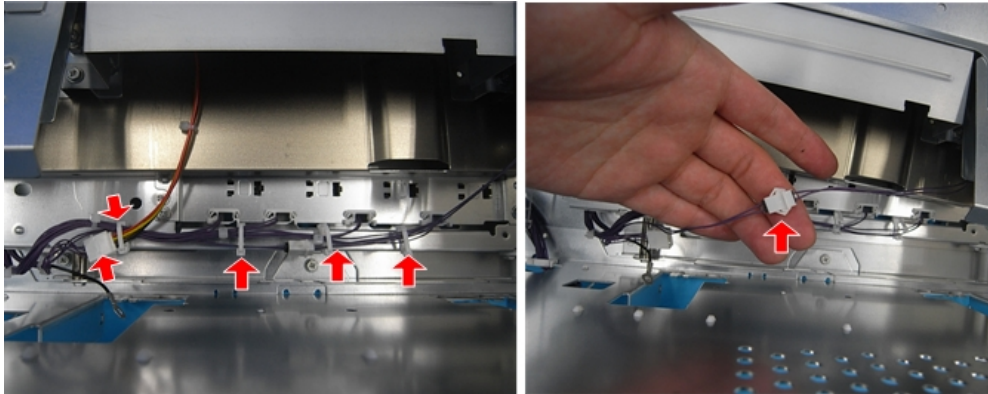
6. Clamp (🔧x2).



7. Hold down the lock lever [A] and raise the side fence [B].

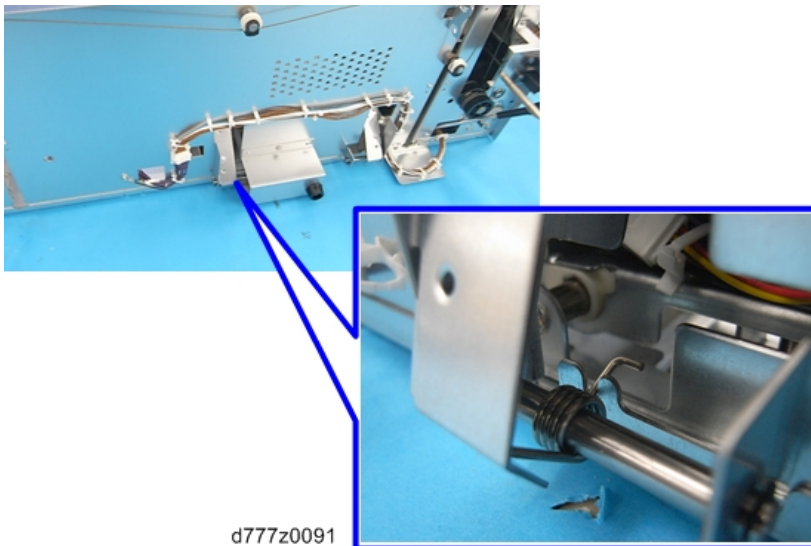


8. Remove the connector from the bottom of the side fence (🔧x4, 📦x2).



d777z0082

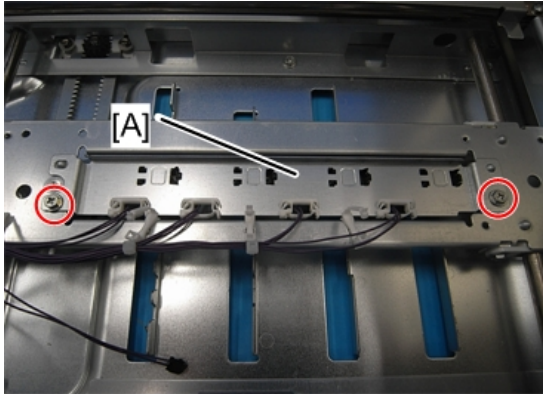
9. Lift the side fence (rear) and remove it.
10. Install the spring on the end face shaft as shown in the photo.



d777z0091

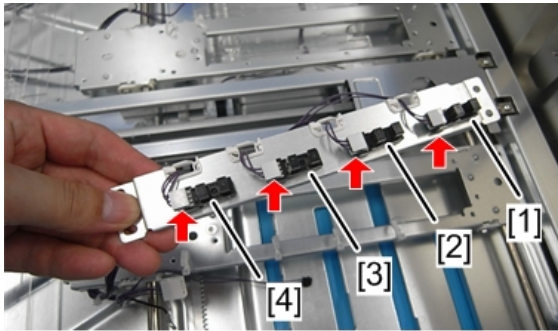
Paper Size Sensors

1. Side fence (rear) (page 35 "Side Fences (Front, Rear)")
2. Sensor bracket [A] (⌀ x2)



d777z0089

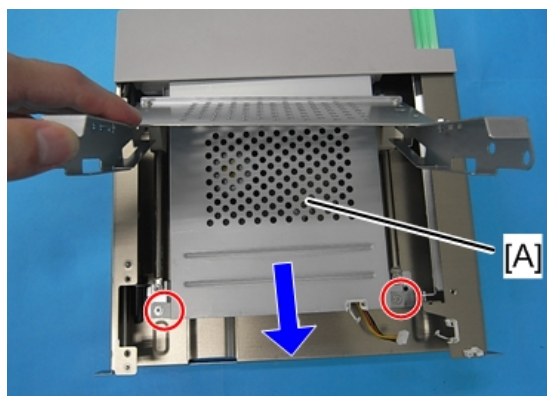
3. Remove the paper size sensors [1] to [4] (🔧 x4, 📦 x4). The sensors are located in order 1 to 4 on the paper feed side.



d777z0090

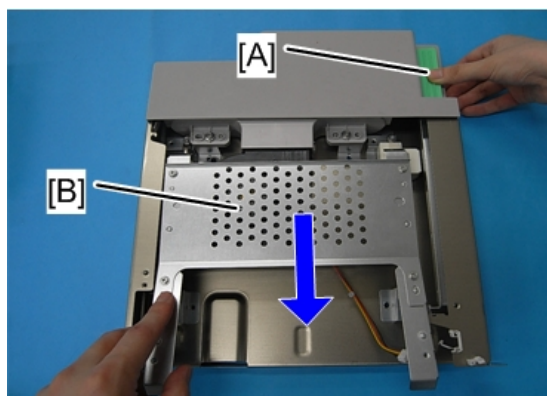
Side Fan

1. Side fence (page 35 "Side Fences (Front, Rear)")
2. Fan cover [A] (🔧 x2)



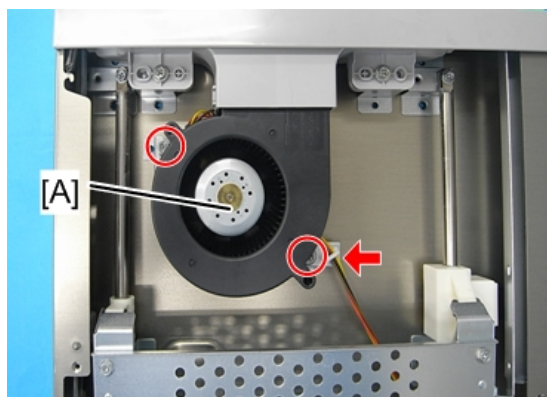
d777z0085

3. Hold down the lock lever [A] and lower the plate [B] in the direction of the arrow.



d777z0086

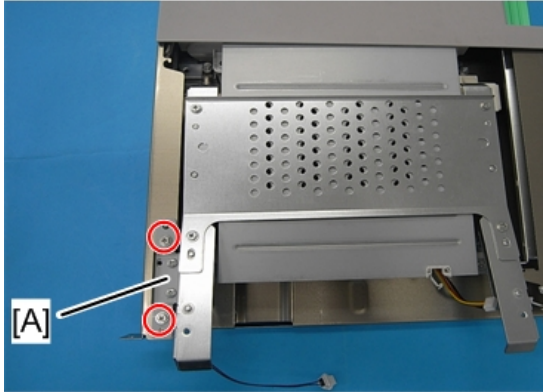
4. Side fan [A] (⚙️ x2, 🛠️ x1)



d777z0087

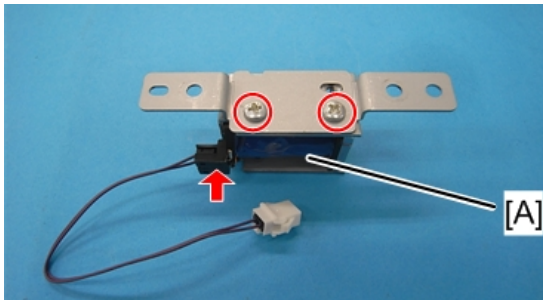
Side Fan Shutter Solenoid

1. Side fence (page 35 "Side Fences (Front, Rear)")
2. Bracket [A] (🔩 x2)



d777z0083

3. Side fan shutter solenoid [A] (🔩 x2)



d777z0084

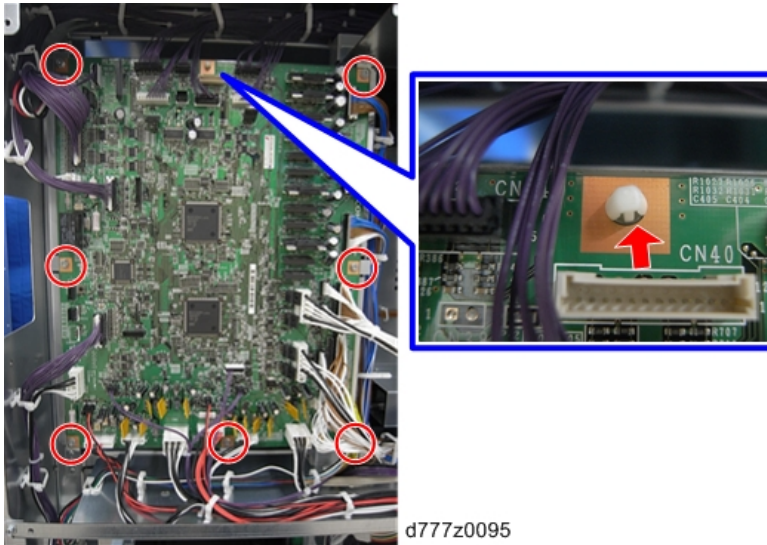
Rear Side

Note

- Do not pull out all the trays in the vacuum Feed LCIT RT5100 (when not linked to the main unit) because it could fall over.

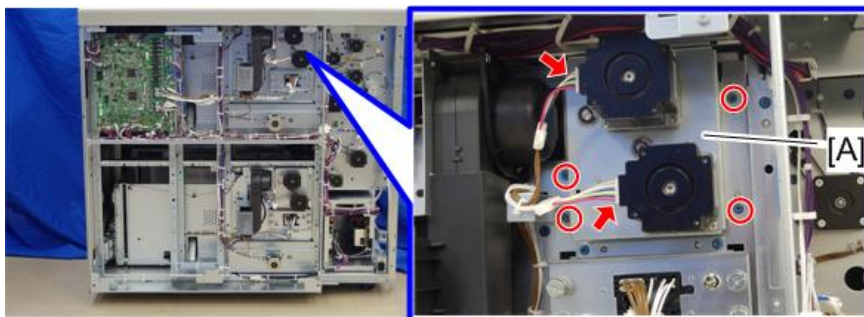
Main Board

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Main board (⚙️ x7, hook x1, all connectors and clamps)



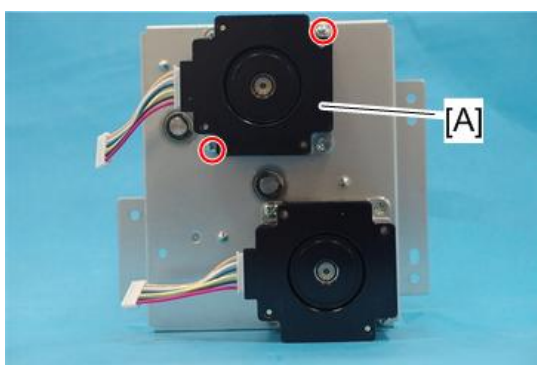
Tray 1 Pickup Belt Motor

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 1 grip motor bracket [A] (⚙️ x4, ⚙️ x2)



d777z5012

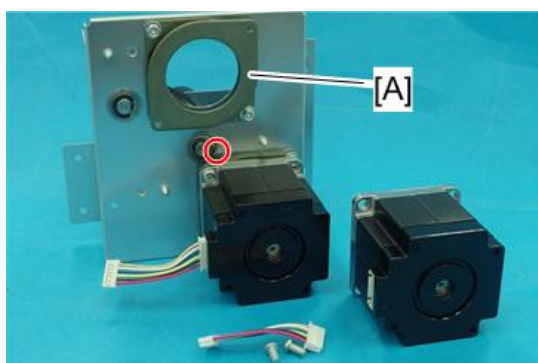
3. Tray 1 pickup belt motor [A] (x2)



d777z5013

★ Important

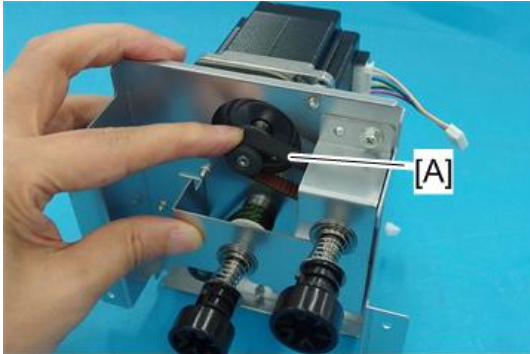
- Do not remove the damper [A] between the motor and the bracket. This damper is factory installed and cannot be adjusted outside the factory.



d777z5014

Re-installation

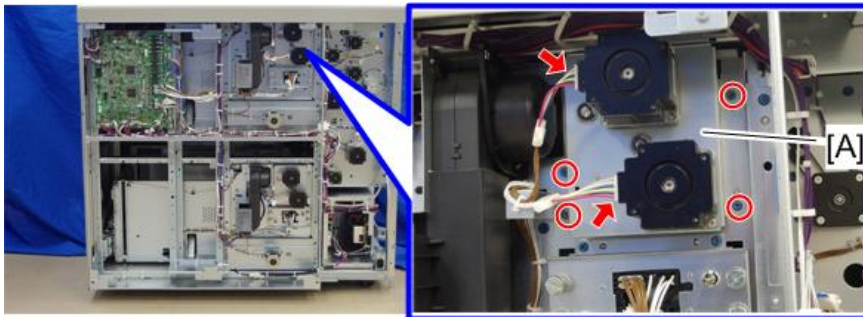
When installing the pickup belt motor, make sure that the motor is correctly placed on the timing belt [A].



d777z5015

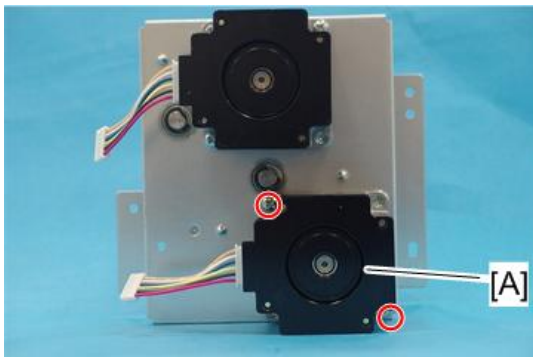
Tray 1 Grip Motor

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 1 grip motor bracket [A] (🔧 x4, 📦 x2)



d777z5012

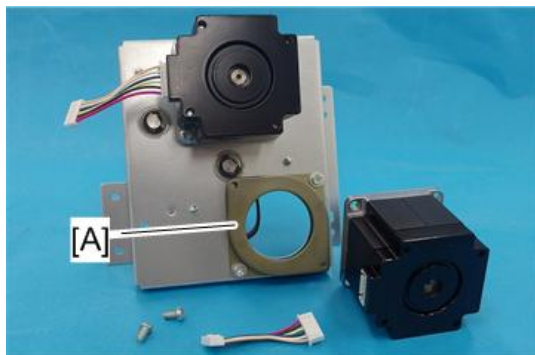
3. Tray 1 grip motor [A] (🔧 x2)



d777z5016

★ Important

- Do not remove the damper [A] between the motor and the bracket. This damper is factory installed and cannot be adjusted outside the factory.



d777z5017

Re-installation

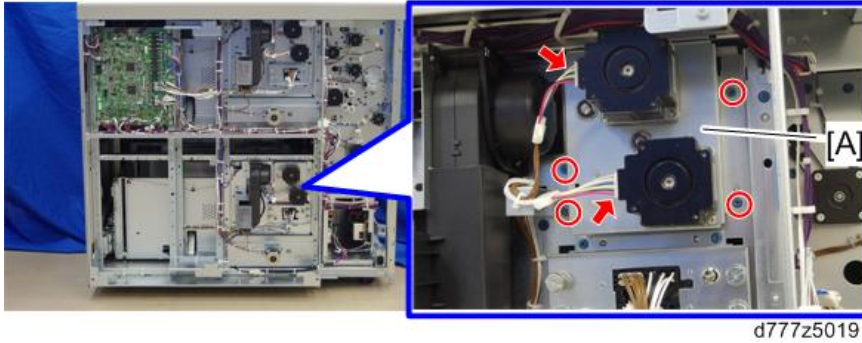
When installing the grip motor, make sure that the motor is correctly placed on the timing belt [A].



d777z5018

Tray 2 Pickup Belt Motor

- Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
- Tray 2 grip motor bracket [A] (⌀x4, ⚙x2)



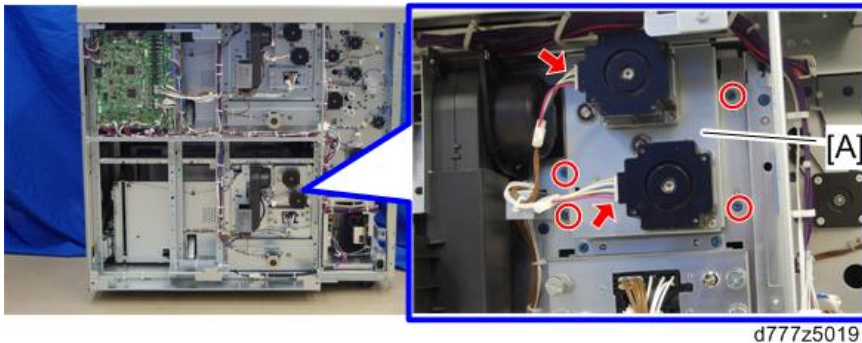
3. Tray 2 pickup belt motor (page 48 "Tray 1 Pickup Belt Motor")

Note

- The procedure for removing and installing the tray 2 pickup belt motor is the same as for the tray 1 pickup belt motor.

Tray 2 Grip Motor

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 2 grip motor bracket [A] (⌀ x4, ⌀ x2)



3. Tray 2 grip motor (page 50 "Tray 1 Grip Motor")

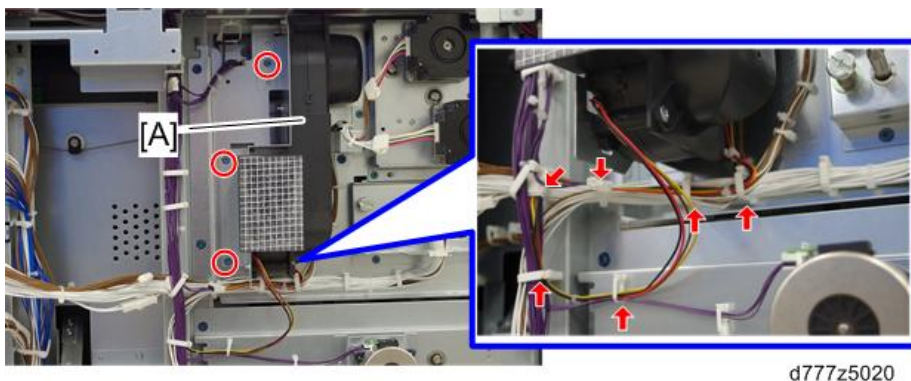
Note

- The procedure for removing and installing the tray 2 grip motor is the same as for the tray 1 grip motor.

Suction Fan 1, 2 (Tray 1, 2)

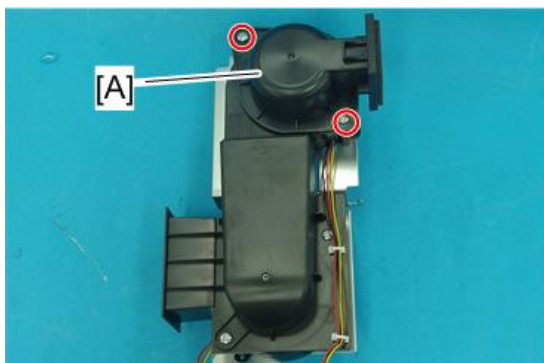
Note

- Suction fans 1, 2 can be removed using the same procedure for each tray. The following is the procedure for replacing the fan in tray 1.
- Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
 - Suction fan duct [A] (⚙️ x3, 🔌 x4, 📦 x2)



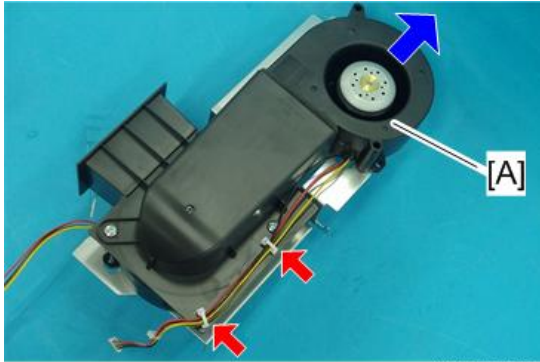
d777z5020

- Upper suction fan duct [A] (⚙️ x2)



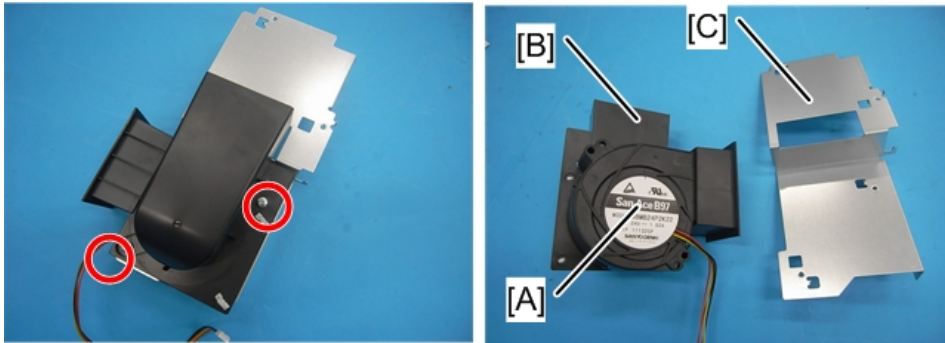
d777z5021

- Suction fan 1 [A] (⚙️ x2)



d777z5022

5. Disassemble the suction fan 2 [A], the suction fan duct [B] and the bracket [C].

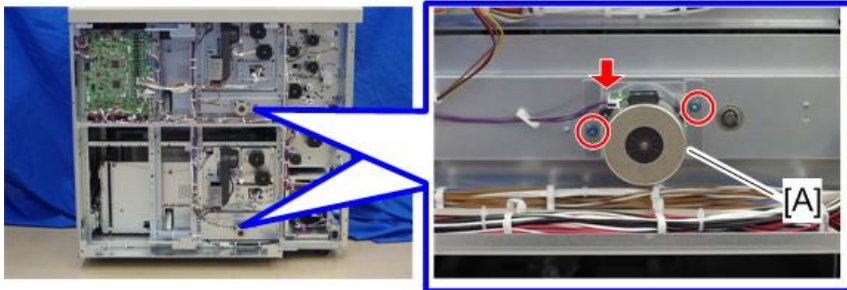


d777z0117

LCIT Lift Motor (Tray 1, 2)

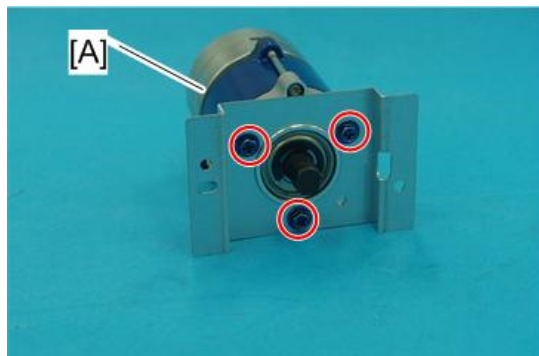
Note

- The LCIT lift motor can be removed using the same procedure for each tray. The following is the procedure for replacing the motor in tray 1.
1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
 2. Lift motor bracket [A] (⌀ x2, ⌀ x1)



d777z5023

3. Lift motor [A] (⚙️ x3)



d777z5024

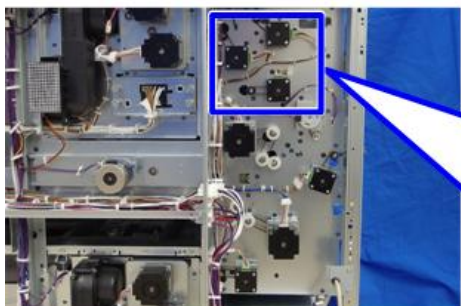
1

Bypass Transport Motor 2

↓ Note

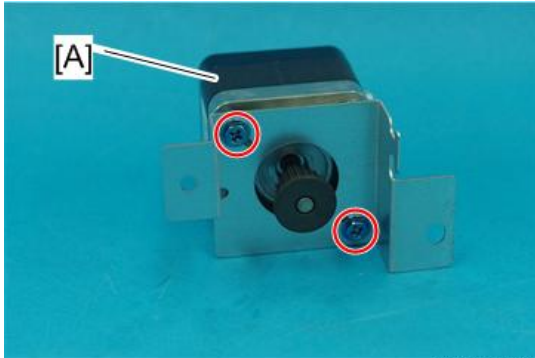
- The bypass transport motor 1 is located on the side of the optional bypass unit. When an optional bypass unit is not installed in the main unit, this motor is not used.

- Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
- Bypass transport motor 2 bracket [A] (⚙️ x2, 📦 x1)



d777z5025

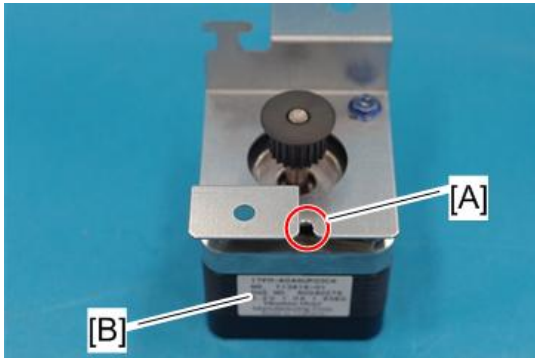
3. Bypass transport motor 2[A] (⚙️ x2)



d777z5026

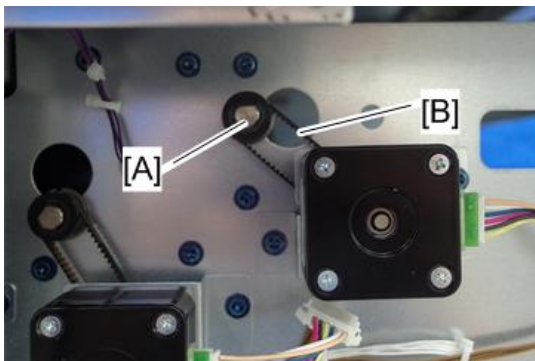
Re-installation

1. When attaching the bracket to the motor, position the bracket so that the opening in the bracket [A] faces the label [B].



d777z5027

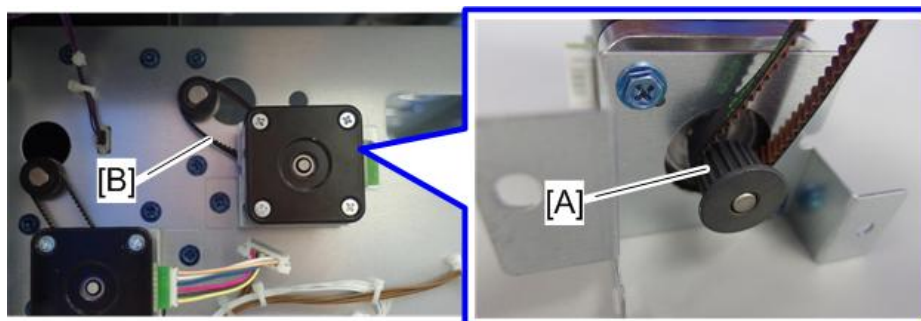
2. When attaching the motor bracket, turn the roller [A] to make sure that the timing belt [B] is correctly installed.



d777z5028

Note

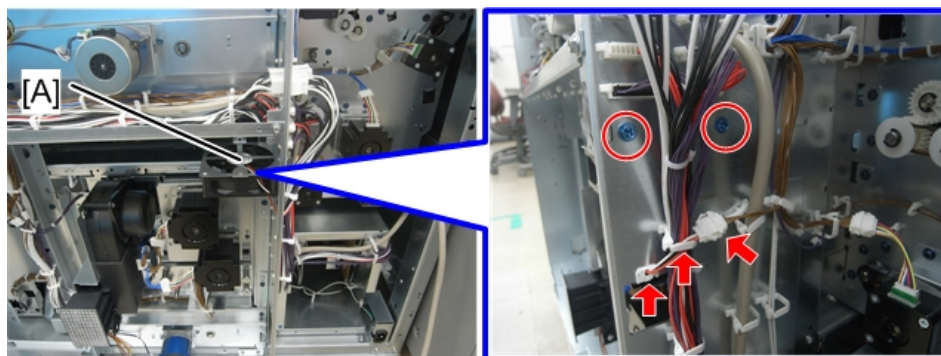
- If the timing belt is not correctly installed on the motor gear [A], the timing belt [B] may be too loose.



d777z5029

Transport Motor Cooling Fan

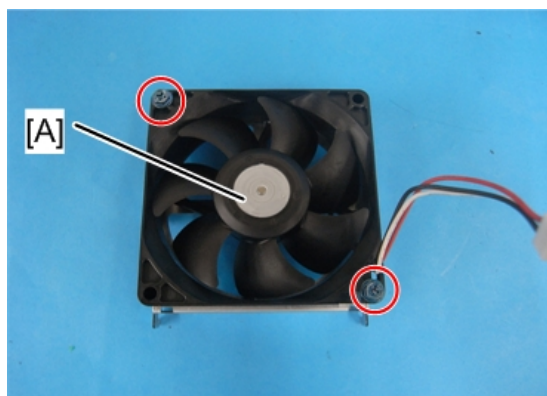
1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Remove the transport motor cooling fan [A] with the bracket (⚙️ x2, 🛠️ x2, 📦 x1).



d194z0286

3. Transport motor cooling fan [A] (⚙️ x2)

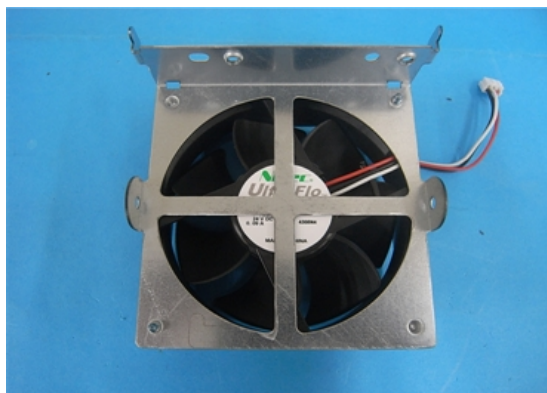
1



d194z0287

Re-installation

Install the transport motor cooling fan so that its label faces to the lower.



d194z0288

Vertical Feed Unit

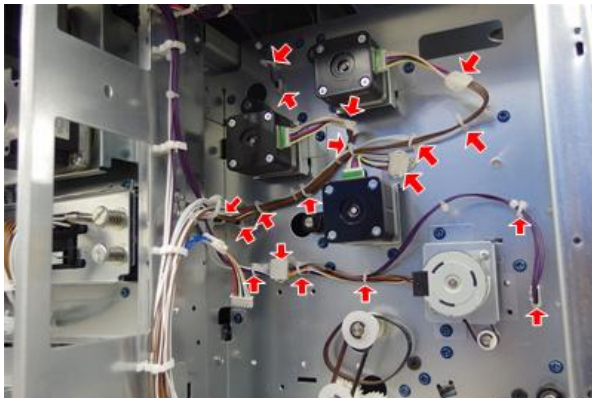
Note

- Do not pull out all the trays in the vacuum Feed LCIT RT510 (when not linked to the main unit) because it could fall over.

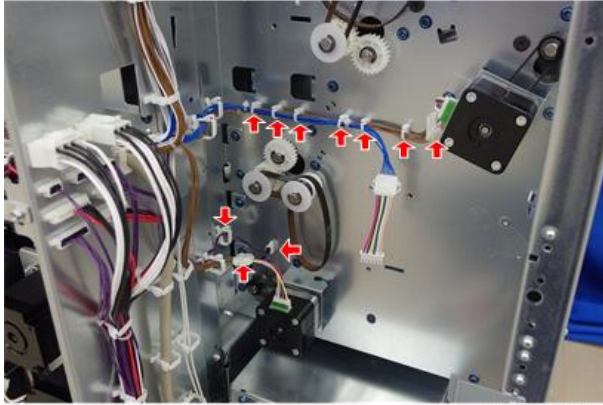
1

Vertical Feed Unit

1. Upper inner cover (page 13 "Upper Inner Cover")
2. Lower inner cover (page 15 "Lower Inner Cover")
3. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
4. Remove each vertical transport unit cooling fan bracket. (xref Vertical Transport Unit Cooling Fan)
5. Vertical transport exit motor bracket (page 72 "Vertical Transport Exit Motor")
6. Tray 2 vertical transport motor 2 bracket (page 68 "Tray 2 Vertical Transport Motor 2")
7. Disconnect all the harnesses that connected to the vertical feed unit (🔌 x all, 🛑 x all).

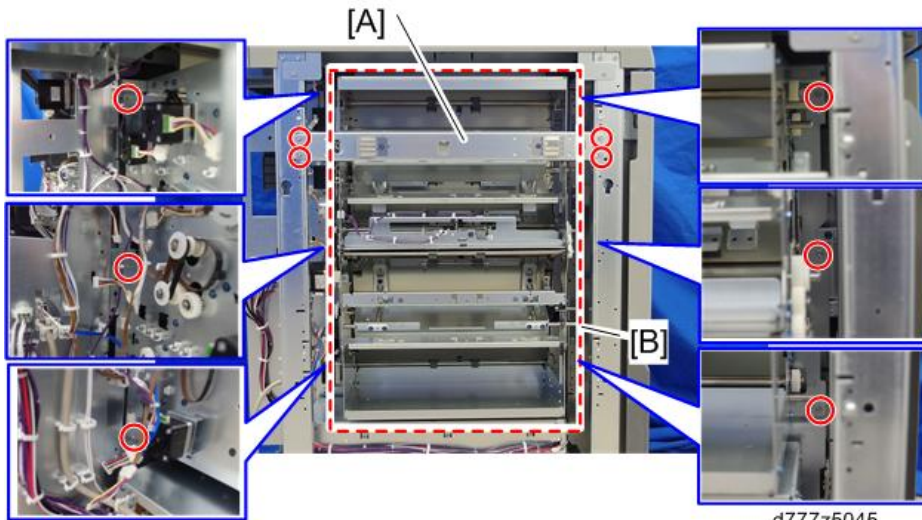


d777z5044



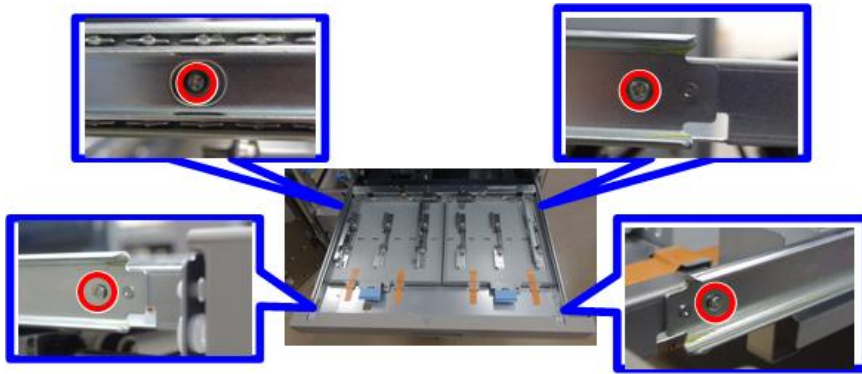
d777z5046

8. Remove the stay [A] from the left side (⌘ x4).
9. Remove the six screws that secure the vertical feed unit [B] to the vacuum feed LCIT (⌘ x6).



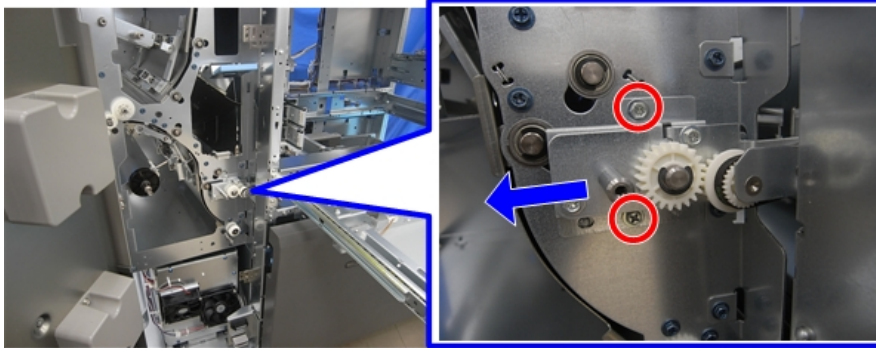
d777z5045

10. If linked to the vacuum feed LCIT, remove the horizontal feed unit (⌘ x4).

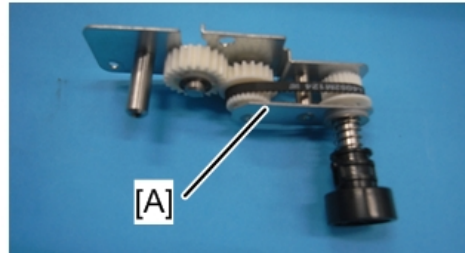


d194d9156

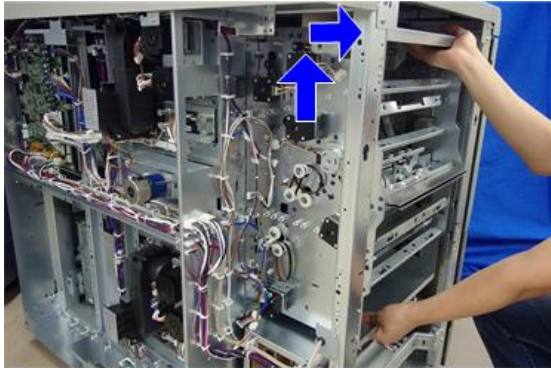
11. If linked to the vacuum feed LCIT, remove the paper jam processing lever [A] (⚙️ x2).



d777z0118

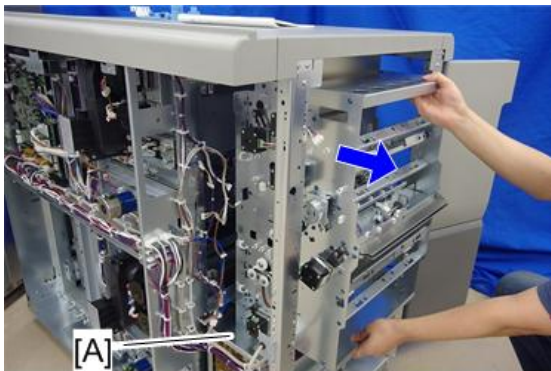


12. Use both hands to support the vertical feed unit, raise it slightly and pull it towards you.



d777z5047

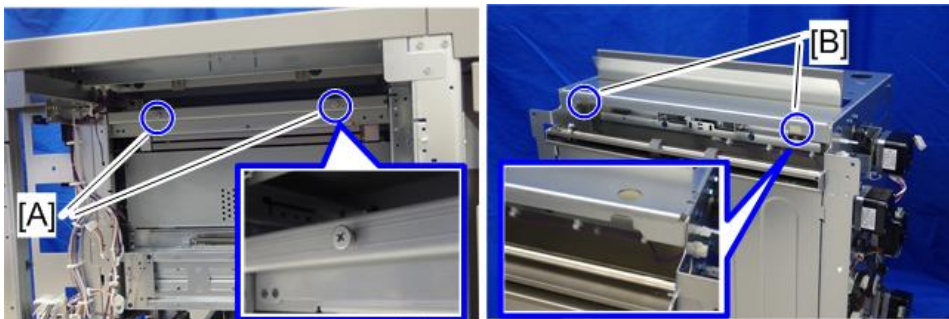
13. Place the vertical feed unit on the PSU box [A] and pull it out gently.



d777z5048

Re-installation

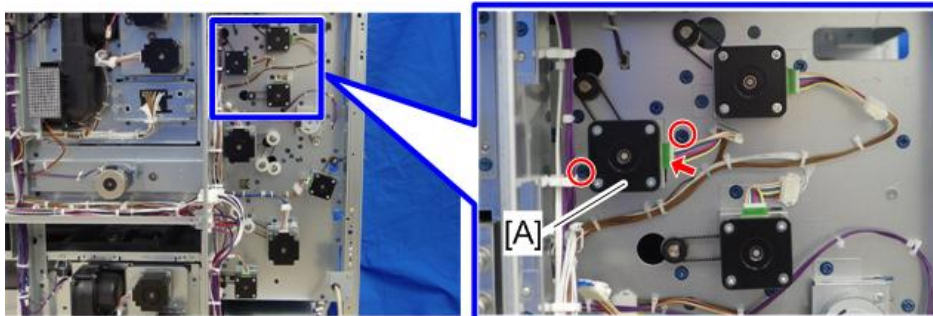
When installing the vertical feed unit, place the notches [B] on the right side of the frame of the vertical feed unit on the two shoulder screws [A] on the left side of the LCIT.



d777z5049

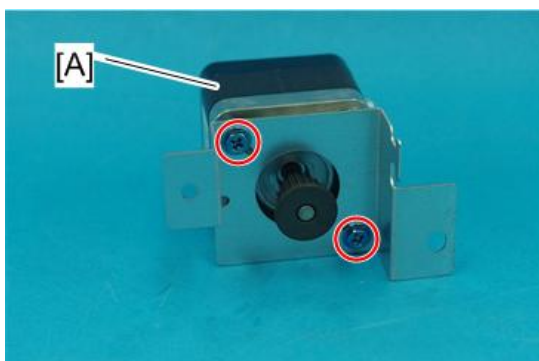
Tray 1 Vertical Transport Motor 1

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 1 vertical transport motor 1 bracket [A] (🔩 x2, 📦 x1)



d777z5030

3. Tray 1 vertical transport motor 1 [A] (🔩 x2)



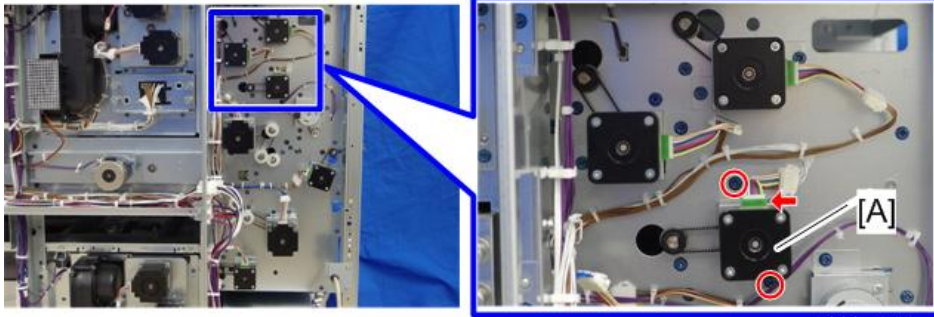
d777z5026

Note

- When installing the motor, refer to re-installation for the bypass transport motor 2 (page 55 "Bypass Transport Motor 2").

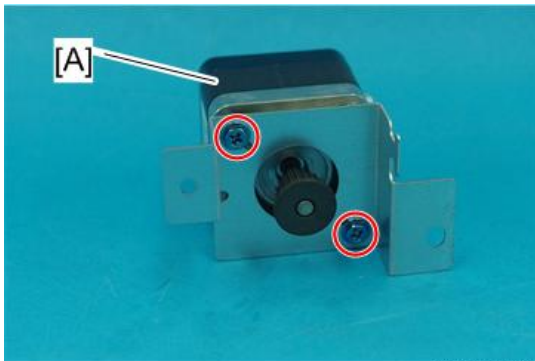
Tray 1 Vertical Transport Motor 2

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 1 vertical transport motor 2 bracket [A] (🔩 x2, 📦 x1)



d777z5031

3. Tray 1 vertical transport motor 2 [A] (⚙️ x2)



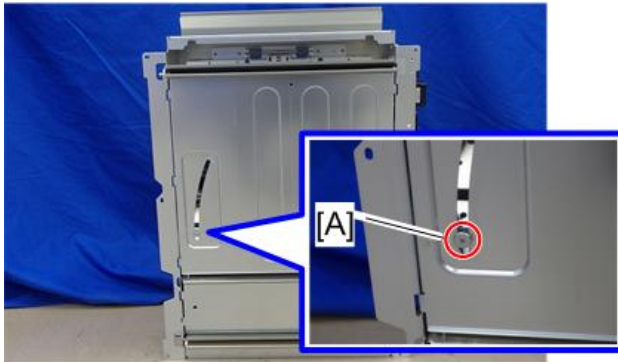
d777z5026

↓ Note

- When installing the motor, refer to re-installation for the bypass transport motor 2 (page 55 "Bypass Transport Motor 2").

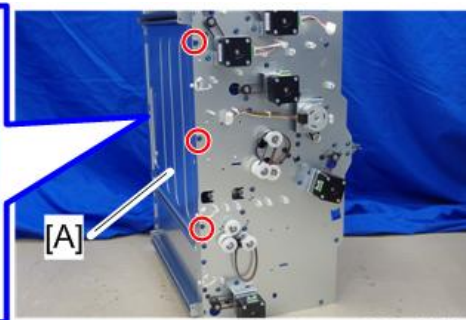
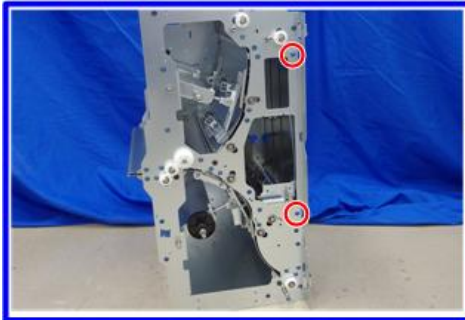
Tray 1 Transport Sensor

1. Vertical feed unit (page 59 "Vertical Feed Unit")
2. Shoulder screw [A]



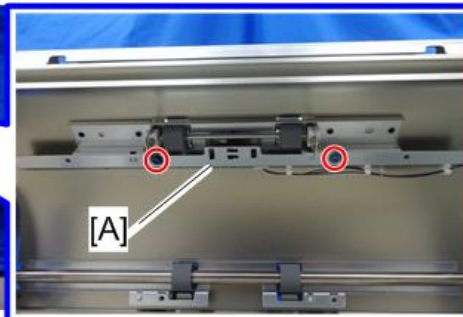
d777z5051

3. Remove the right cover [A] from the vertical feed unit (⚙️ x5).



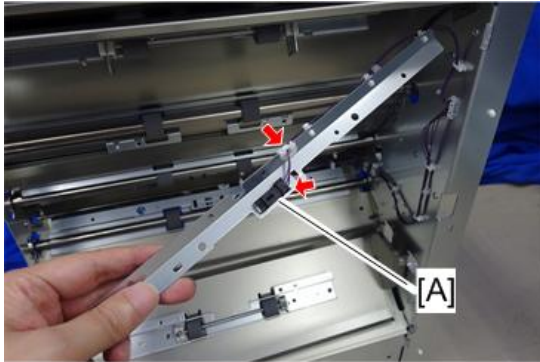
d777z5052

4. Tray 1 transport sensor bracket [A] (⚙️ x2)



d777z5053

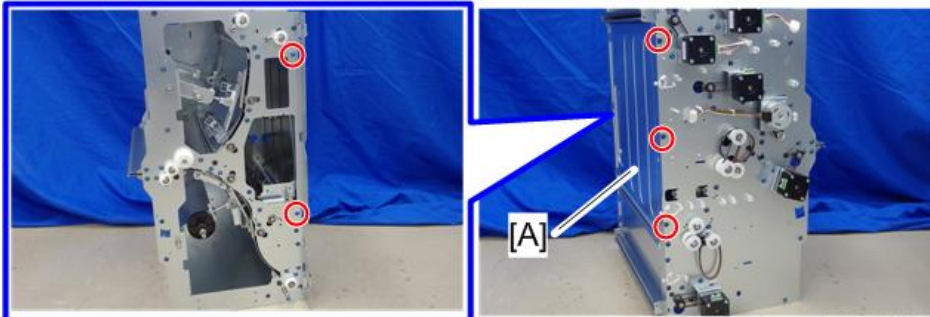
5. Tray 1 transport sensor [A] (⚙️ x1, 📦 x1)



d777z5054

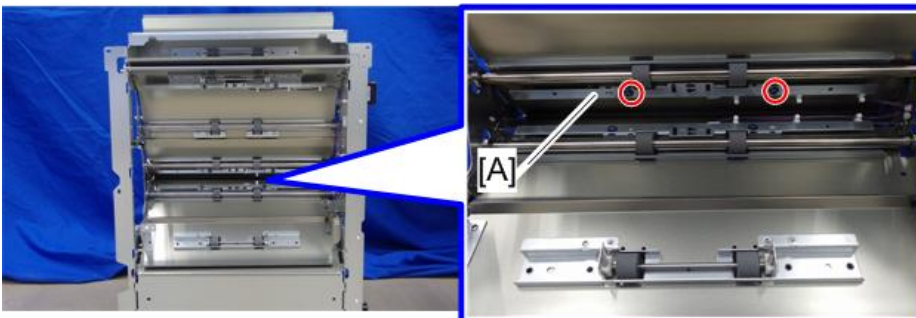
Tray 1 Vertical Transport Sensor

1. Vertical feed unit (page 59 "Vertical Feed Unit")
2. Remove the right cover [A] from the vertical feed unit (⚙️ x5).



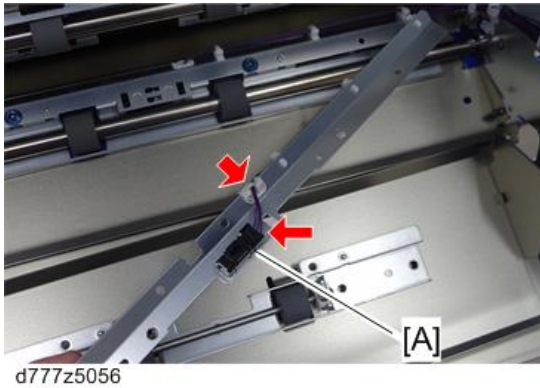
d777z5052

3. Tray 1 vertical transport sensor bracket [A] (⚙️ x2)



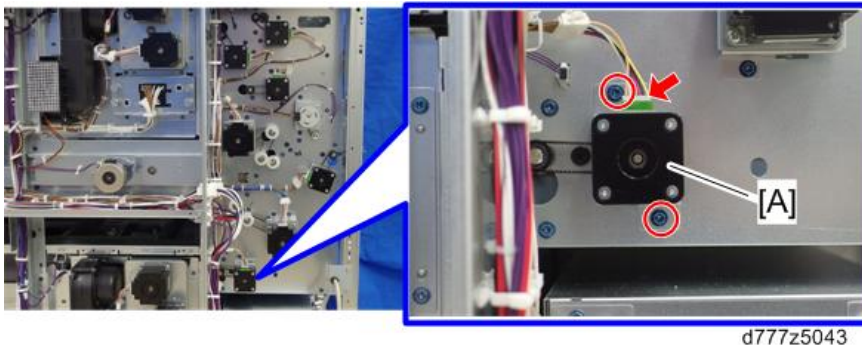
d777z5055

4. Tray 1 vertical transport sensor [A] (⚙️ x1, 📦 x1)

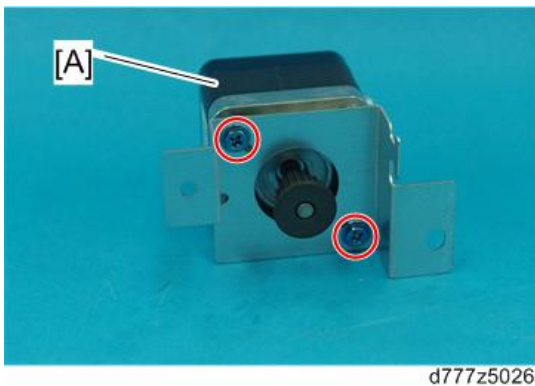


Tray 2 Vertical Transport Motor 1

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 2 vertical transport motor 1 bracket [A] (⚙️ x2, 📦 x1)



3. Tray 2 vertical transport motor 1 [A] (⚙️ x2)



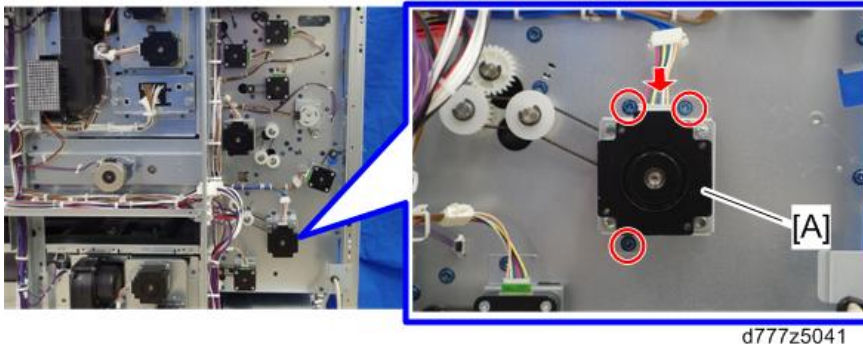
Note

- When installing the motor, refer to re-installation for the bypass transport motor 2 (page 55 "Bypass Transport Motor 2").

1

Tray 2 Vertical Transport Motor 2

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Tray 2 vertical transport motor 2 bracket [A] (⚙️ x3, 📦 x1)



3. Tray 2 vertical transport motor 2 [A] (⚙️ x2)

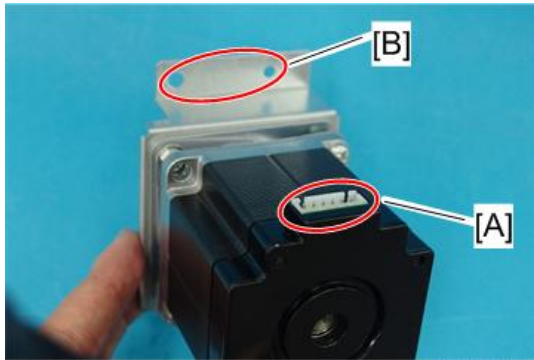
Important

- Do not remove the damper [B] between the motor and the bracket. This damper is factory installed and cannot be adjusted outside the factory.



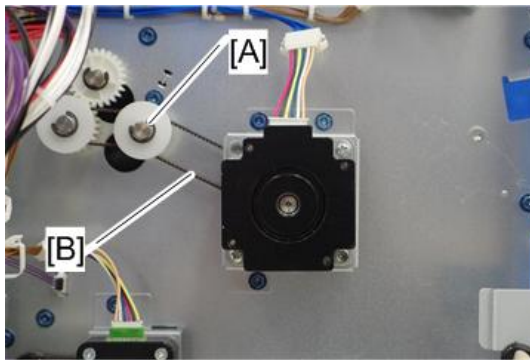
Re-installation

1. When attaching the bracket to the motor, install it so that the connector openings [A] face the two screw holes [B].



d777z5038

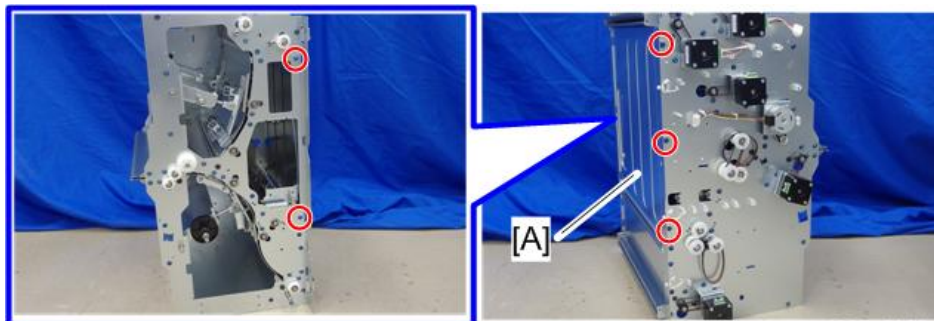
2. When attaching the motor bracket, turn the roller [A] to make sure that the timing belt [B] is correctly installed.



d777z5042

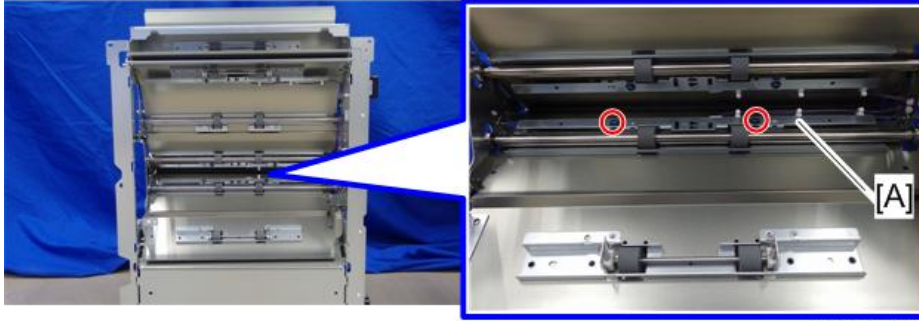
Tray 2 Vertical Transport Sensor

1. Vertical feed unit (page 59 "Vertical Feed Unit")
2. Remove the right cover [A] from the vertical feed unit (⚙ x5).



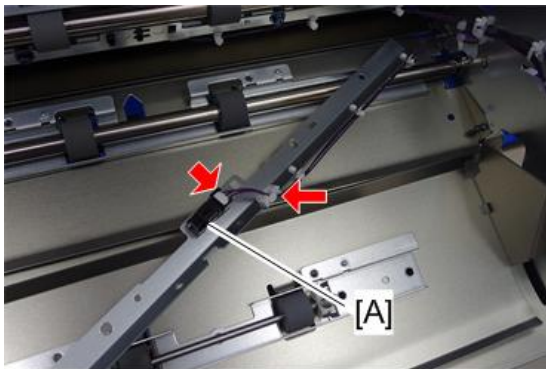
d777z5052

3. Tray 2 vertical transport sensor bracket [A] (⚙ x2)



d777z5057

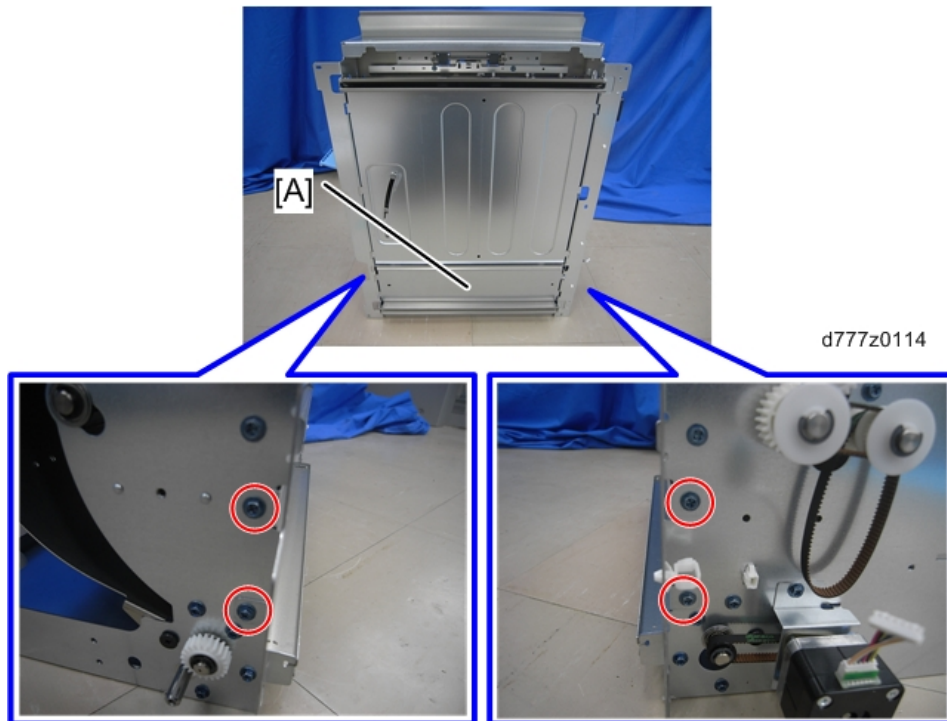
4. Tray 2 vertical transport sensor [A] (🔧 x1, 📦 x1)



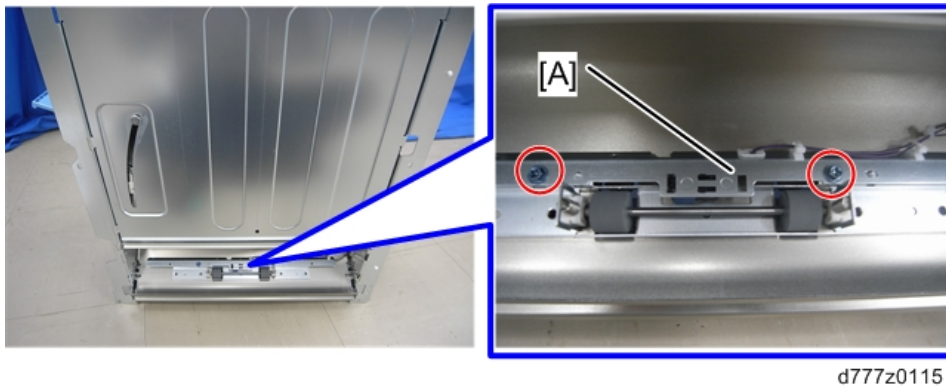
d777z5058

Tray 2 Transport Sensor

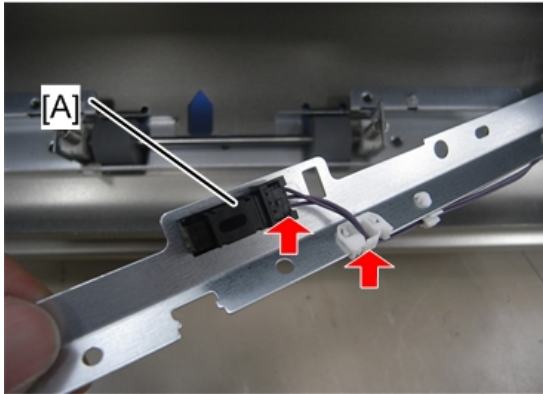
1. Vertical feed unit (page 59 "Vertical Feed Unit")
2. Remove the lower cover from the vertical transport unit [A] (🔧 x4).



3. Bracket [A] (🔑 x4)



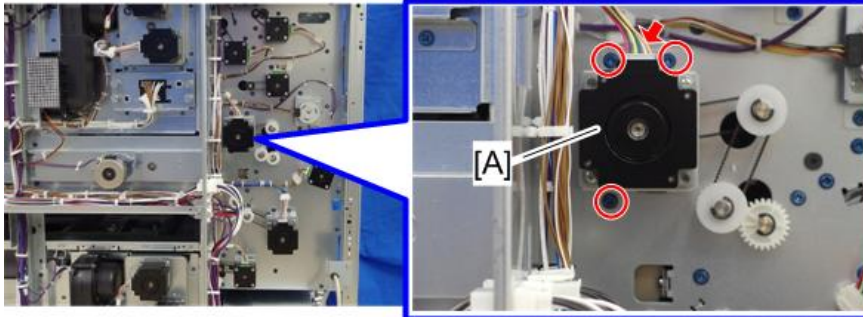
4. Tray 2 transport sensor [A] (🔑 x1, 📦 x1)



d777z0116

Vertical Transport Exit Motor

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Vertical transport exit motor bracket [A] (⚙️ x3, 📦 x1)

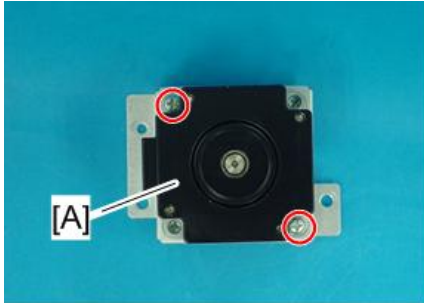


d777z5036

3. Vertical transport exit motor [A] (⚙️ x2)

★ Important

- Do not remove the damper [B] between the motor and the bracket. This damper is factory installed and cannot be adjusted outside the factory.



d777z5037

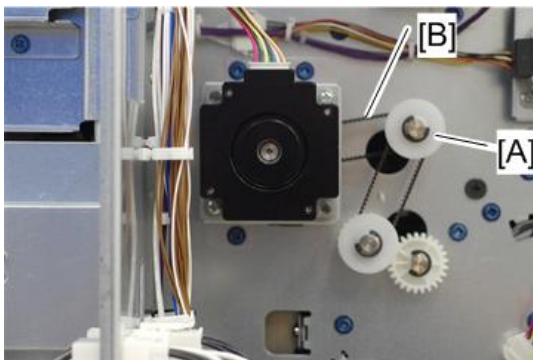
Re-installation

1. When attaching the bracket to the motor, install it so that the connector openings [A] face the two screw holes [B].



d777z5038

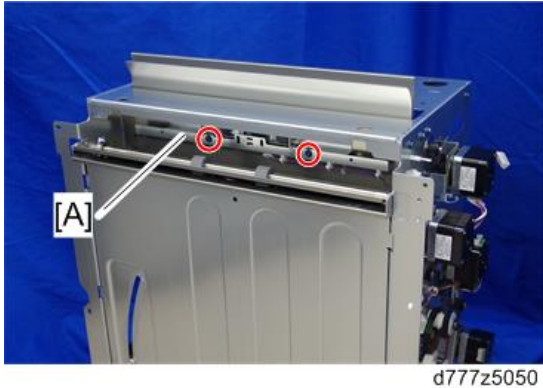
2. When attaching the motor bracket, turn the roller [A] to make sure that the timing belt [B] is correctly installed.



d777z5039

Bypass Transport Sensor 2

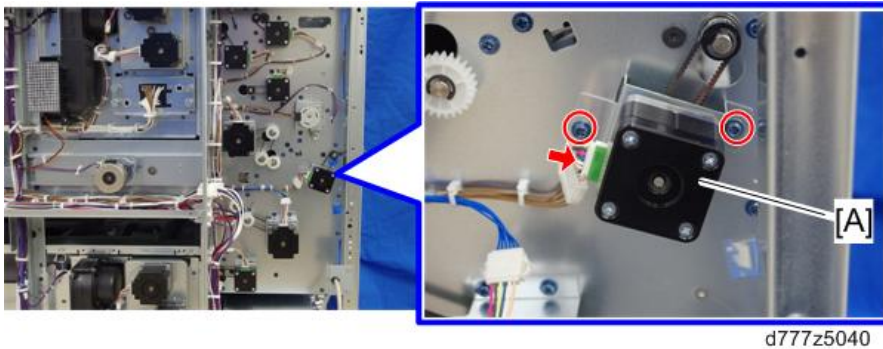
1. Vertical feed unit (page 59 "Vertical Feed Unit")
2. Bypass transport sensor 2 bracket [A] (🔩 x2)



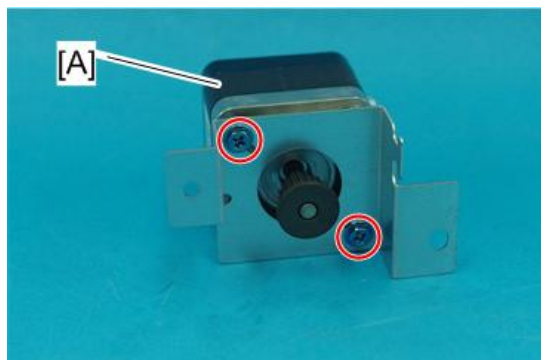
3. Bypass transport sensor 2 [A] (🔧 x1, 📦 x1)

LCIT Exit Motor

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. LCIT exit motor bracket [A] (🔩 x2, 📦 x1)



3. LCIT exit motor [A] (🔩 x2)



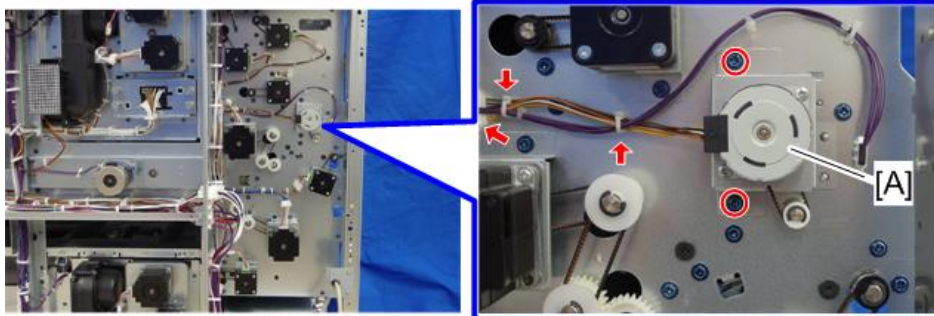
d777z5026

Note

- When installing the motor, refer to re-installation for the bypass transport motor 2 (page 55 "Bypass Transport Motor 2").

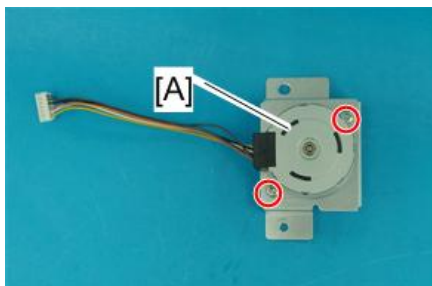
LCIT Exit Roller Contact Motor

- Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
- LCIT exit roller contact motor bracket [A] (⌀ x2, ⌀ x1)



d777z5032

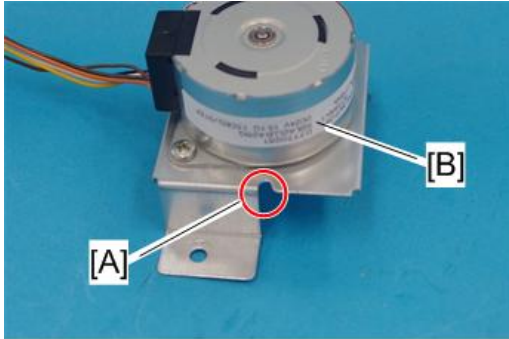
- LCIT exit roller contact motor [A] (⌀ x2)



d777z5033

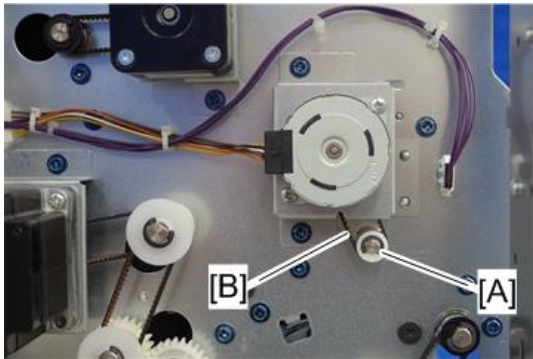
Re-installation

1. When attaching the bracket to the motor, position the bracket so that the opening in the bracket [A] faces the label [B].



d777z5034

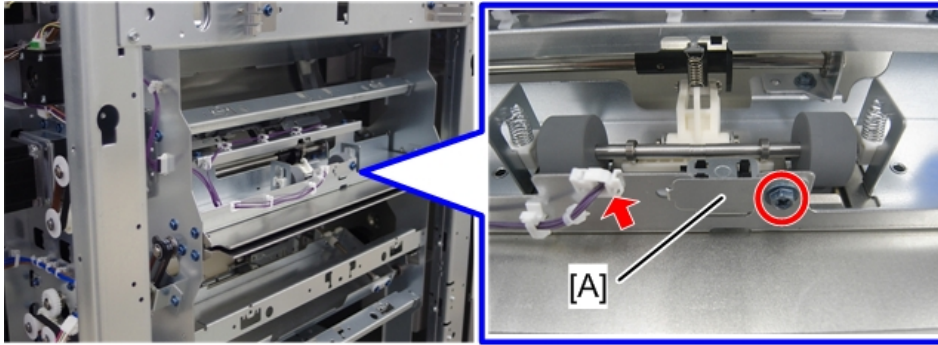
2. When attaching the motor bracket, turn the roller [A] to make sure that the timing belt [B] is correctly installed.



d777z5035

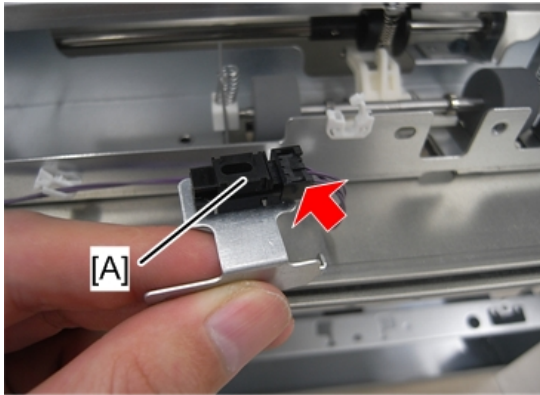
LCIT Exit Sensor

1. Bracket [A] (🔑x1, 🛠x1)




d777z0108

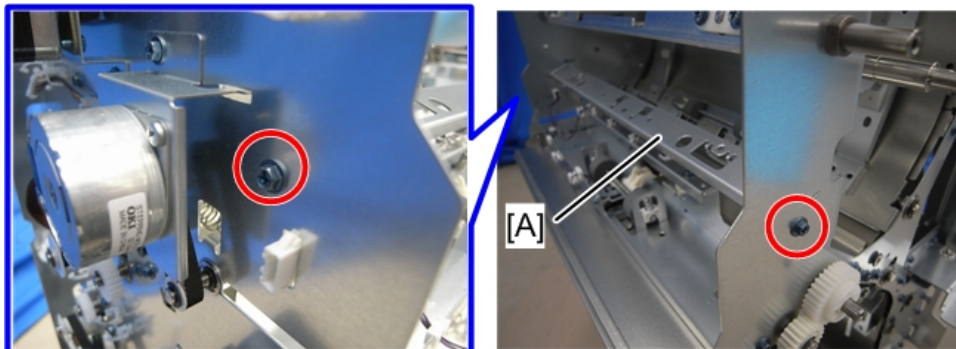
2. LCIT exit sensor 1 [A] ( x1)



d777z0109

LCIT Exit Roller Contact Sensor

1. Remove the stay [A] from the vertical feed unit ( x2).

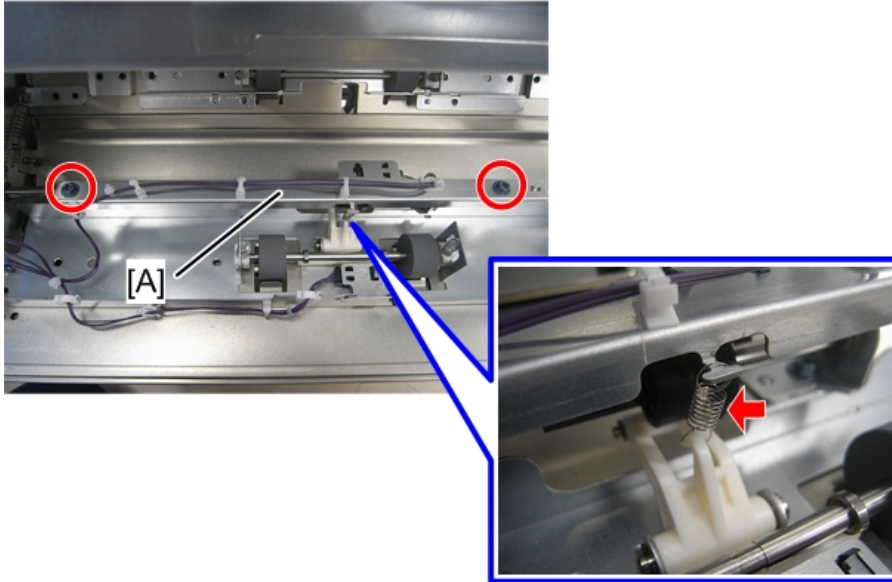


d777z0110

2. Bracket [A] ( x1,  x1)

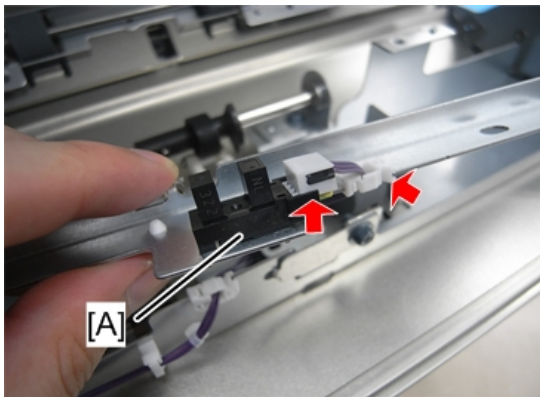
Note

- The top stay is in the way. Use a small screwdriver to remove it.



d777z0112

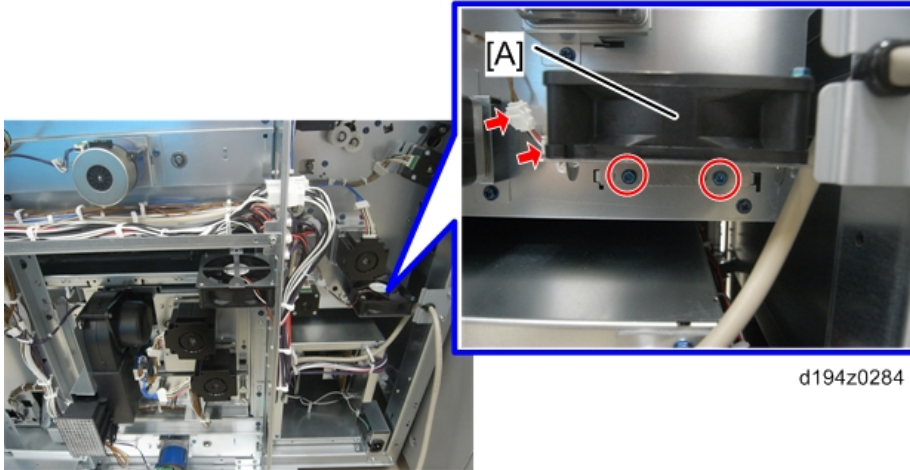
3. LCIT exit roller contact sensor [A] (🔧 x1, 🛠️ x1)



d777z0113

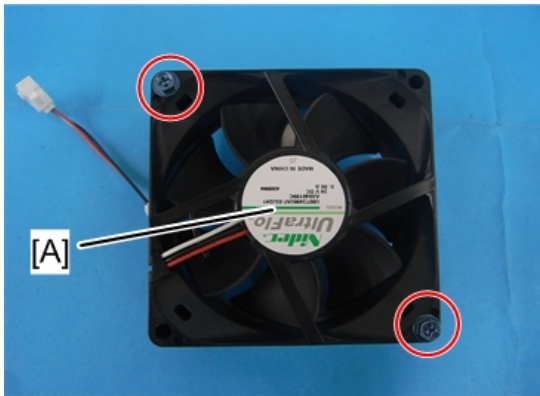
Vertical Transport Unit Cooling Fan

1. Remove the rear right and rear left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Remove the vertical transport unit cooling fan [A] with the bracket (🔧 x2, 🛠️ x1, 📦 x1).



d194z0284

3. Vertical transport unit cooling fan [A] (6 x2)



d194z0285

Vertical Transport Unit Cooling Fan Re-installation

1. Install the cooling fan so that its label faces up

1



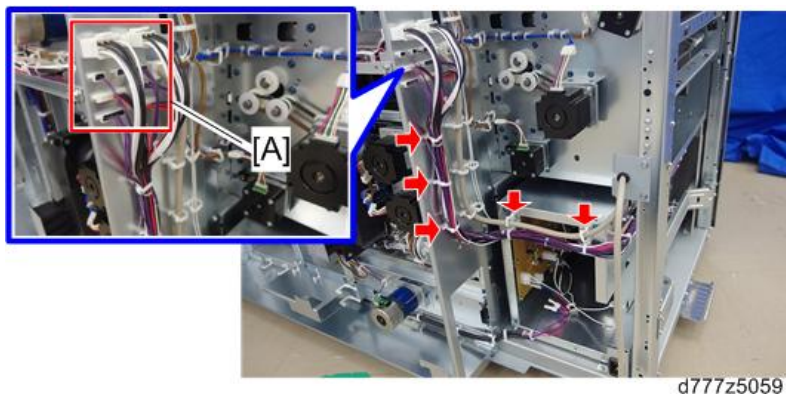
d194z0289

PSU Box

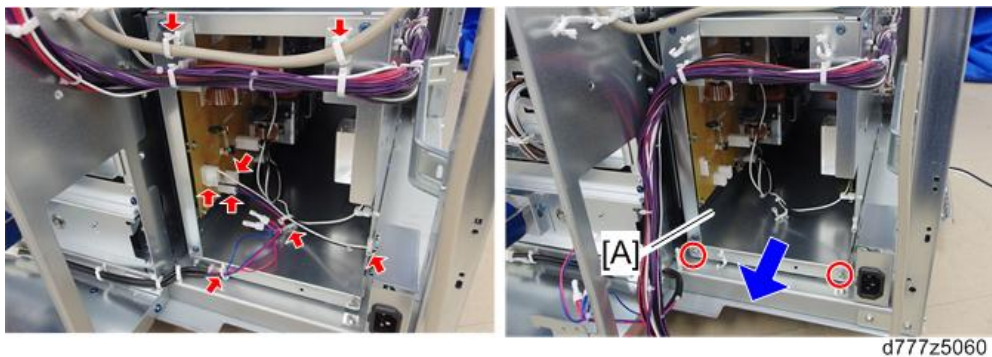
PSU box

1

1. Remove the rear right and left covers (page 8 "Rear Right Cover", page 8 "Rear Left Cover").
2. Open the five clamps and disconnect the nine connectors [A] (🔌x5, 📦x9).

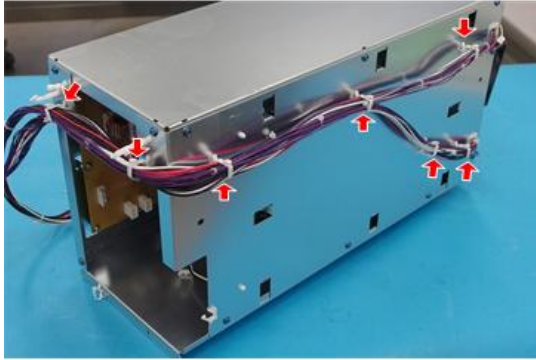


3. Pull out the PSU box [A] (🔌x5, 📦x3, 🌀x2).



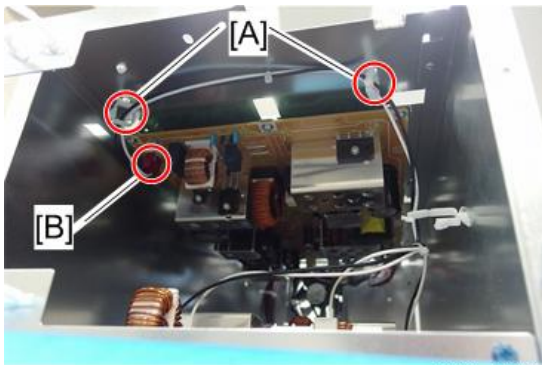
PSU1, 2

1. PSU box (page 81 "PSU box")
2. Open the six clamps.



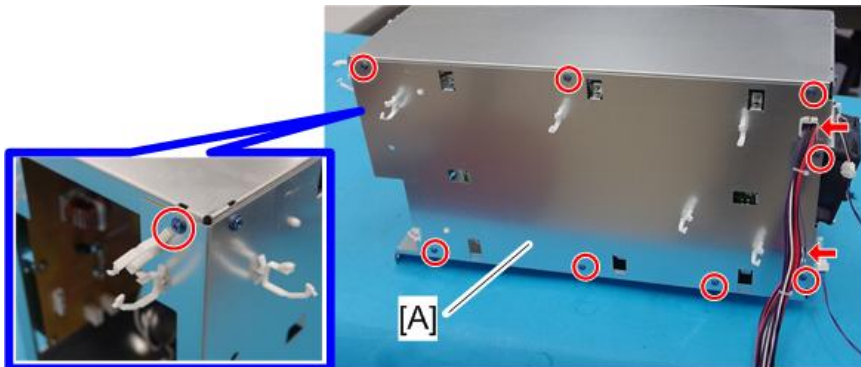
d777z5061

3. Open the two clamps [A] in the PSU box and disconnect the connector [B].



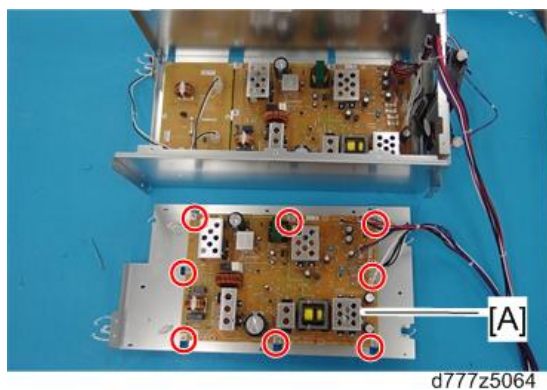
d777z5062

4. Left PSU cover [A] (⚙️ x9, 📦 x2)

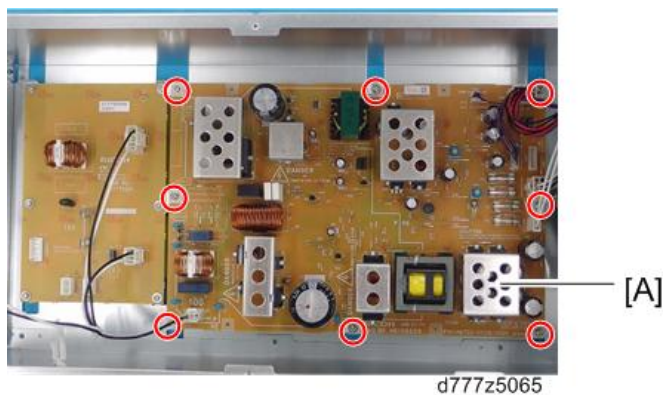


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5. PSU2 [A] (⚙️ x8, 📦 x5)

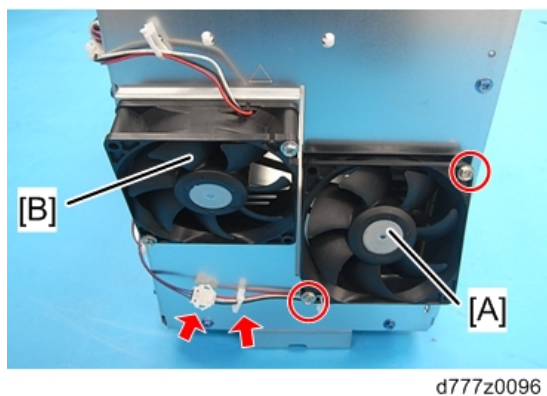


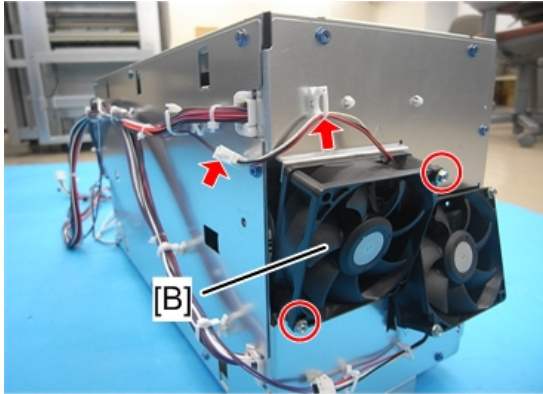
6. PSU1 [A] (⚙️ x8, 📦 x6)



PSU Cooling Fan 1, 2

1. PSU box (page 81 "PSU box")
2. Remove the PSU cooling fan 2 (cools PSU 1) [A] and PSU cooling fan 1 [B] (cools PSU 2) (⚙️ x4, 📦 x2, 📦 x2).

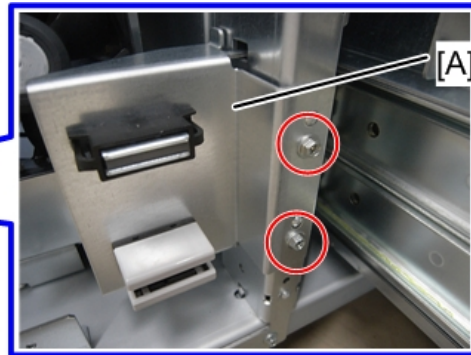
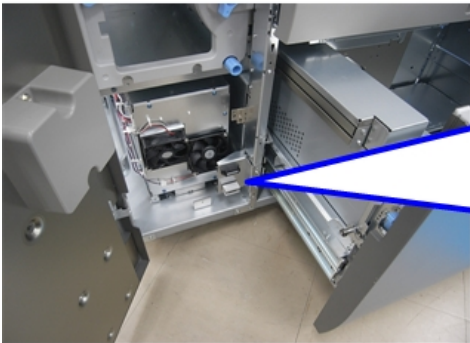




d777z0097

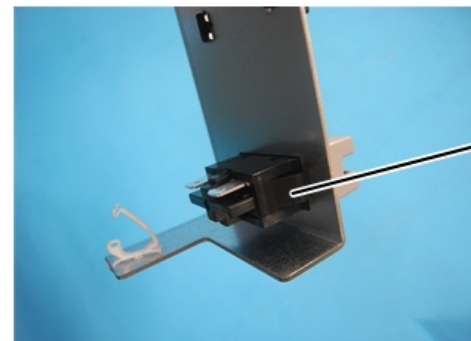
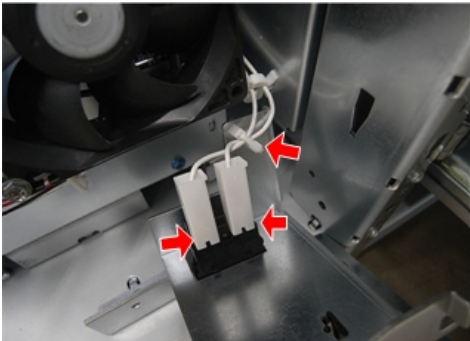
Interlock Switch

1. Open the front door.
2. Lower inner cover (page 15 "Lower Inner Cover")
3. Bracket [A] (🔩x2)



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4. Interlock switch [A] (🔩x1, 📦x2)



d777z0099

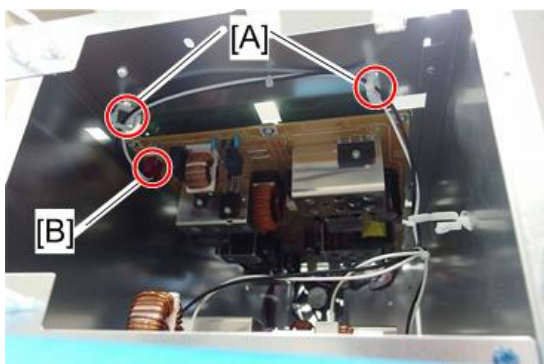
AC Drive Board

1. PSU box (page 81 "PSU box")
2. Open the six clamps.



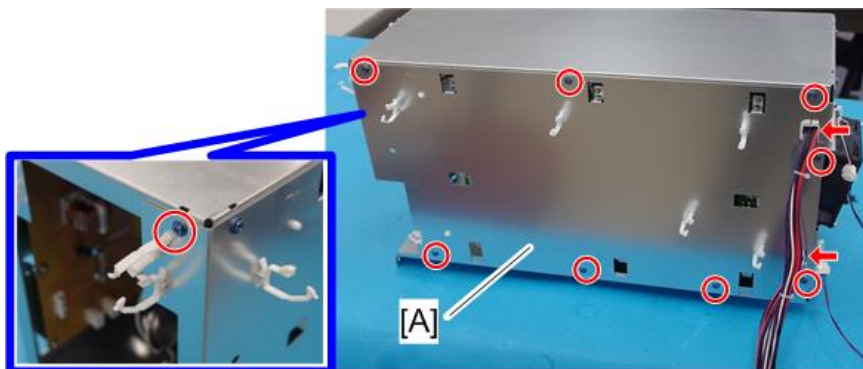
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3. Open the two clamps [A] in the PSU box and disconnect the connector [B].



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4. Left PSU cover [A] (⌀ x9, ⌀ x2)



d777z5063

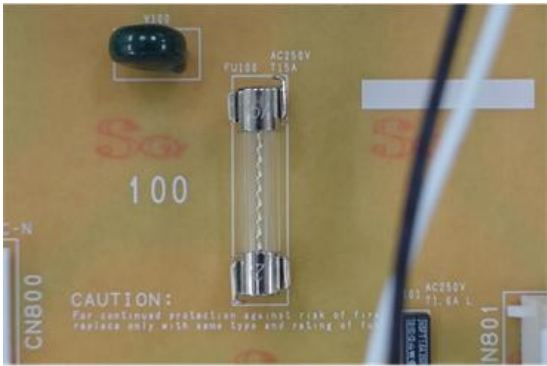
5. AC drive board [A] (⌀ x6, ⌀ x2)



CAUTION
For continued protection against risk of fire,
Replace only with same type and ratings of fuse.

d777z5067

| | |
|---------|----------------|
| | Fuses |
| PSU1, 2 | FU3: 10A, 250V |
| | FU4: 10A, 250V |
| | FU5: 10A, 250V |
| | FU7: 10A, 250V |



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| | |
|----------------|------------------|
| | Fuses |
| AC drive board | FU100: 15A, 250V |

MEMO