Bridge Unit BU5010
Machine Code: D778

Field Service Manual

October, 2014

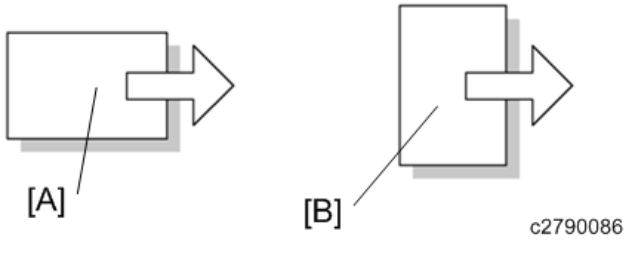
Safety, Conventions, Trademarks

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 the products, which are heavy in weight, from toppling as a result of people running into or leaning onto the products, which 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.

Do not remove them at your own judgment.

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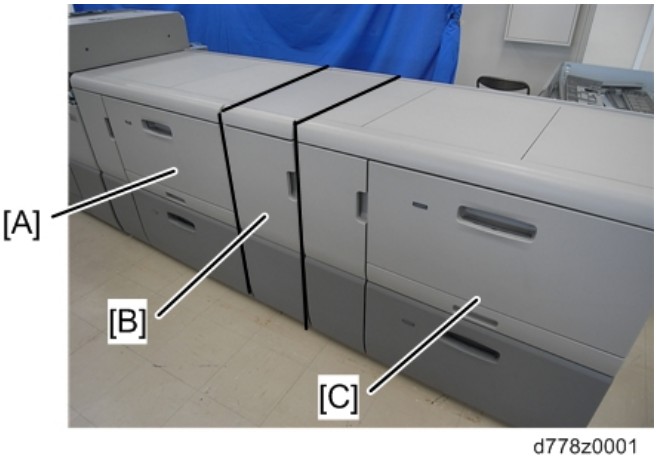
1. Replacement and Adjustment

Detaching the Bridge Unit

Detach the bridge unit [B] from the upstream unit [C] and downstream unit [A].



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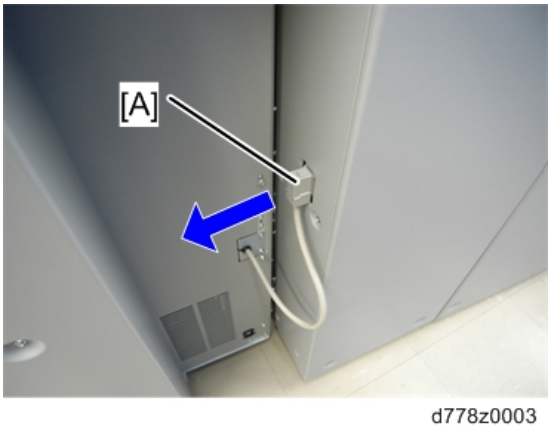
Note

- If 2 vacuum feed LCITs are connected or 3 vacuum feed LCITs are connected, you can detach the bridge unit with the same procedure.

Detaching the Upstream Unit

1. **Disconnect the I/F cable [A] from the bridge unit (x1).**



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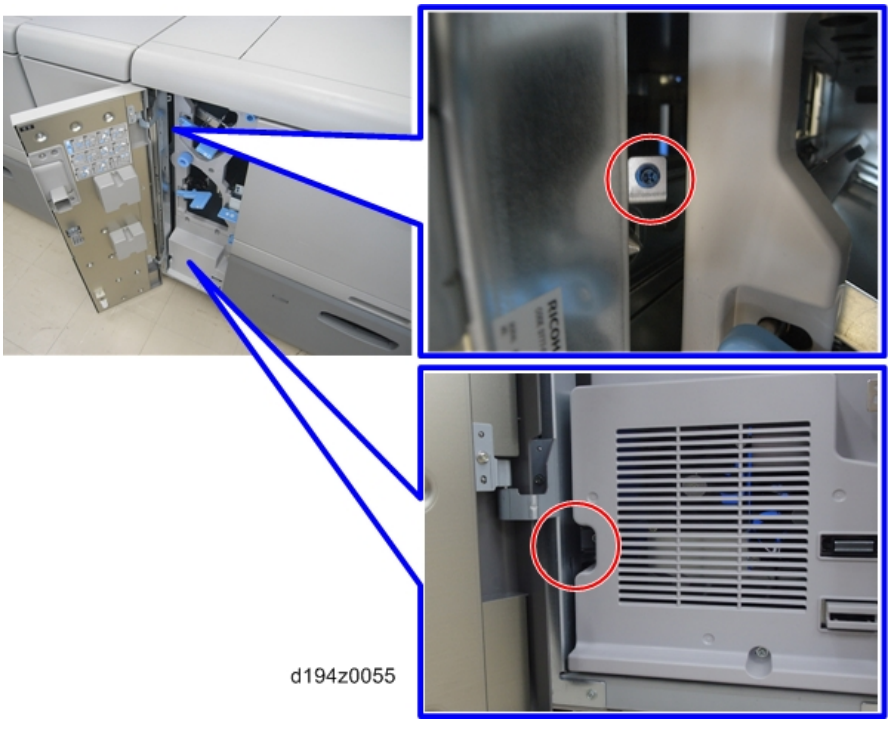
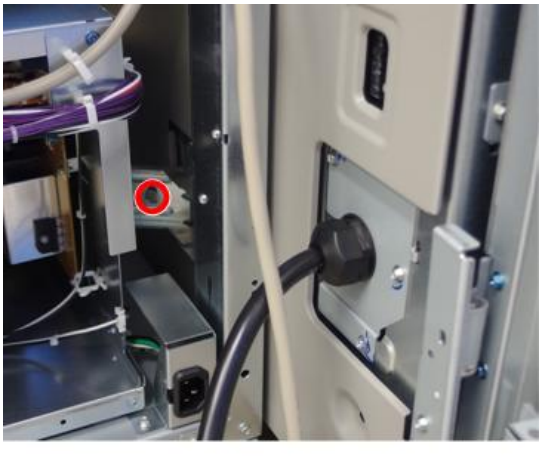
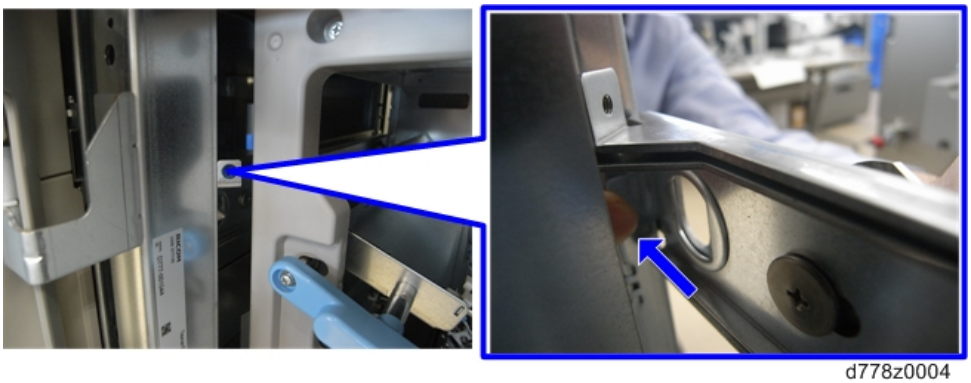
2. Open the front door of the upstream unit and then remove the lock screw (x2).



3. Remove the rear cover of the upstream unit and then remove the screw of the joint bracket (x1).



4. Detach the upstream unit [B] from the bridge unit [A] while pulling the lock bar on the back of the lock screw (the part indicated with the blue arrow should be pulled towards the front).



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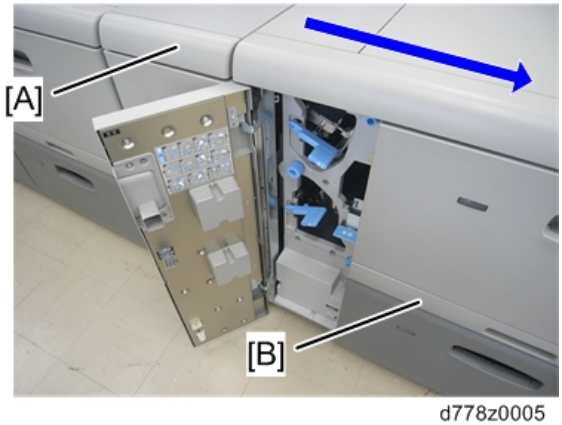

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Detaching From the Downstream Unit

1. Remove the screw of the upper joint bracket (x2).

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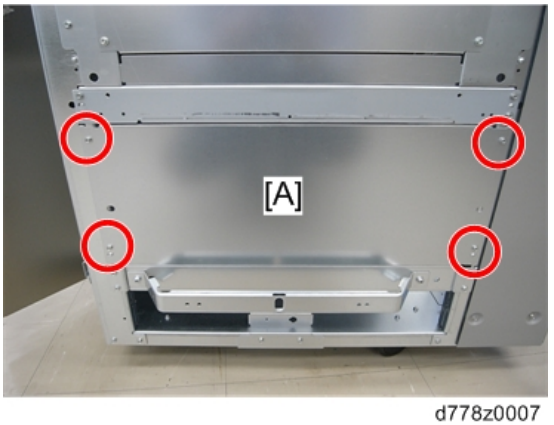
2. Plate [A] (x4)



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3. Remove the screw of the lower joint bracket (x2).

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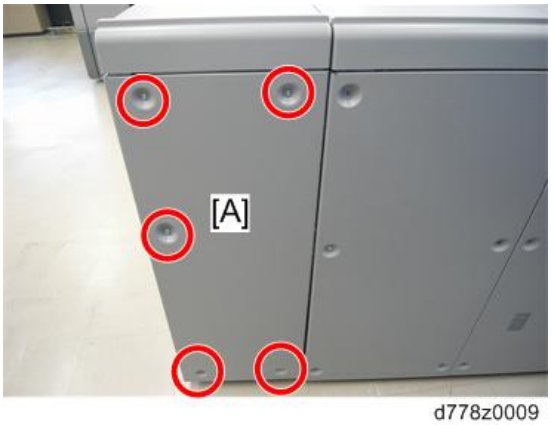
4. Rear cover [A] (x5)



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5. Disconnect all connectors connected to the downstream unit (x5).

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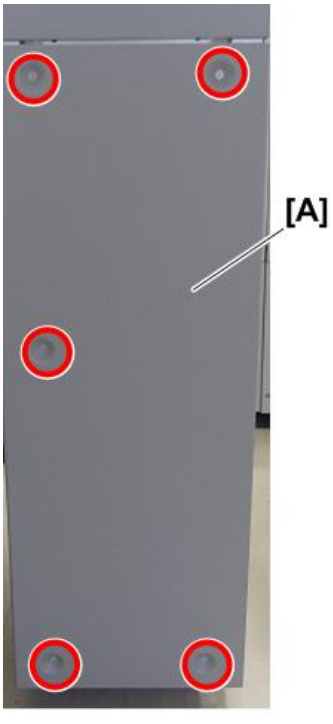
6. Detach the bridge unit from the downstream unit.

Exterior Covers

Rear Cover

1. Rear Cover [A] (x5)



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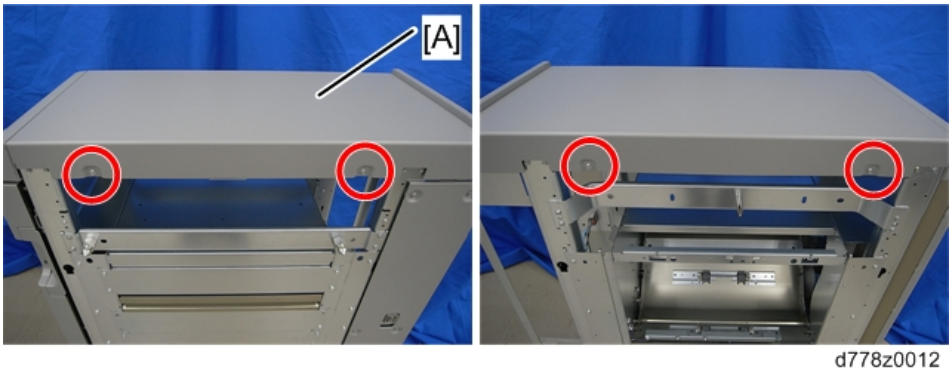
Top Cover

1. Top cover [A] (x4)



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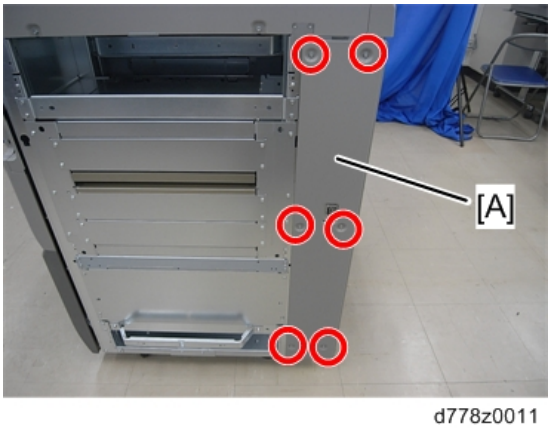
Right Rear Cover

1. Right rear cover [A] (x6)



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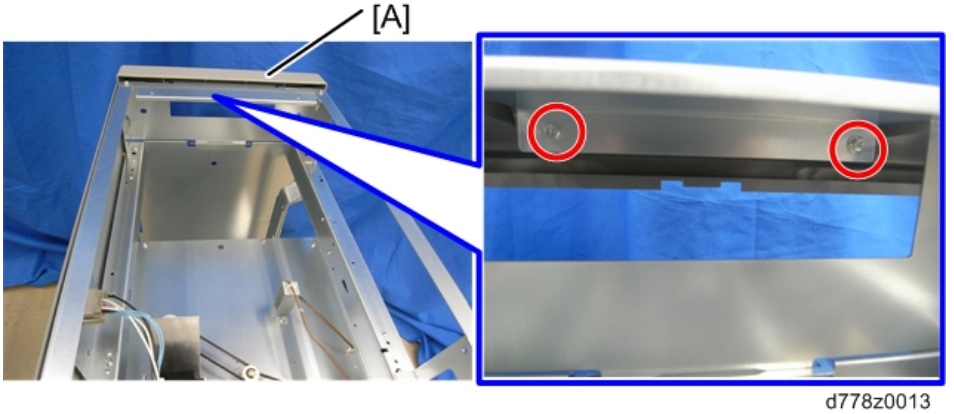
Rear Corner Cover

1. Top cover (page 11 "Top Cover")

2. **Rear corner cover [A] (x2)**



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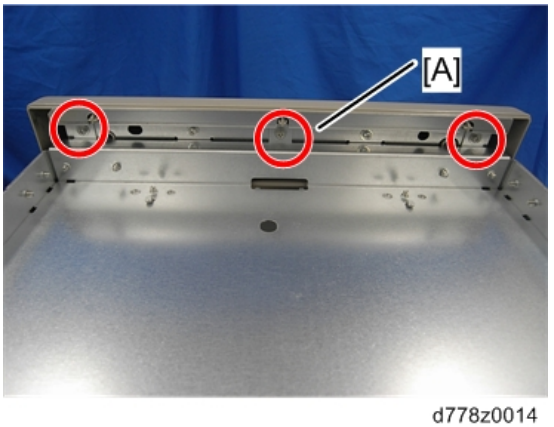
Front Corner Cover

1. **Top cover (page 11 "Top Cover")**
2. **Bracket [A] (x3)**



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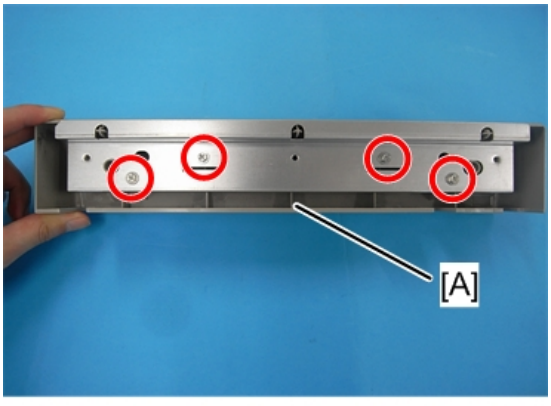
3. **Front corner cover [A](x4)**



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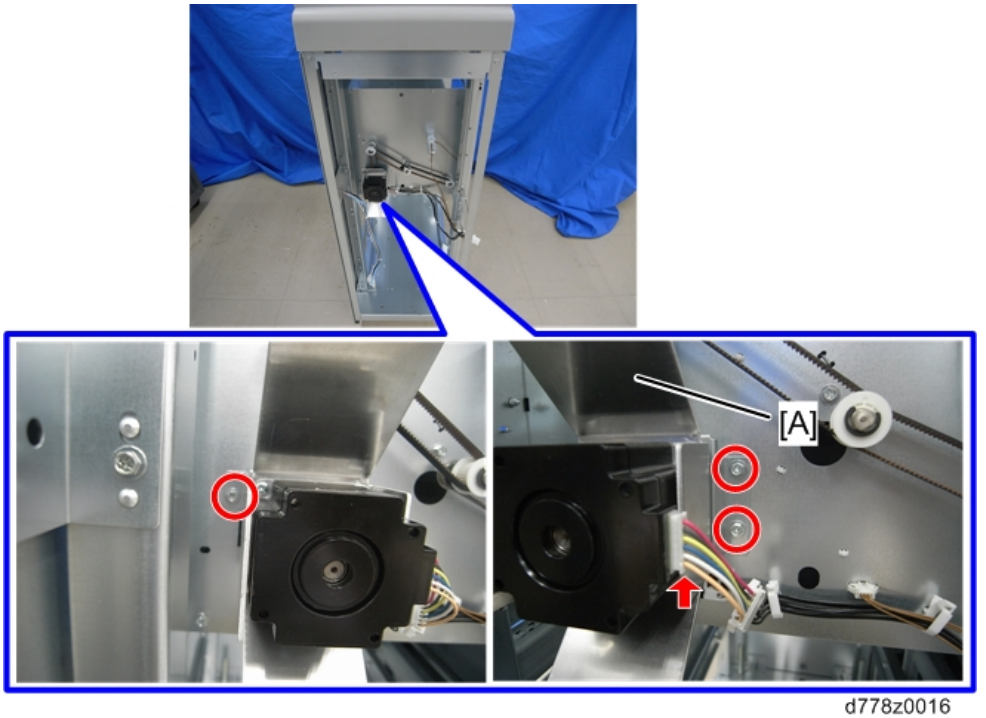
Bridge Unit

1

LCIT Connect Motor

1. Rear cover (page 10 "Rear Cover")
2. Motor bracket [A] (x3, x1)



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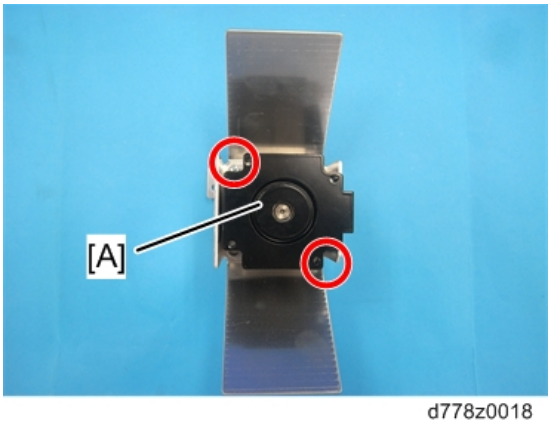
3. LCIT Connect Motor [A](x2)



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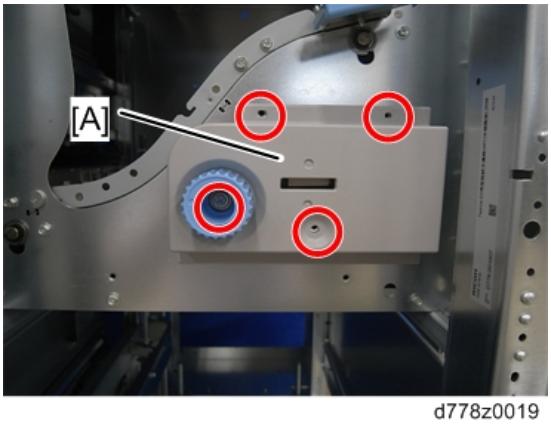
Front Door Detection Switch

1. Open the front door.
2. Inner cover [A] (x4)



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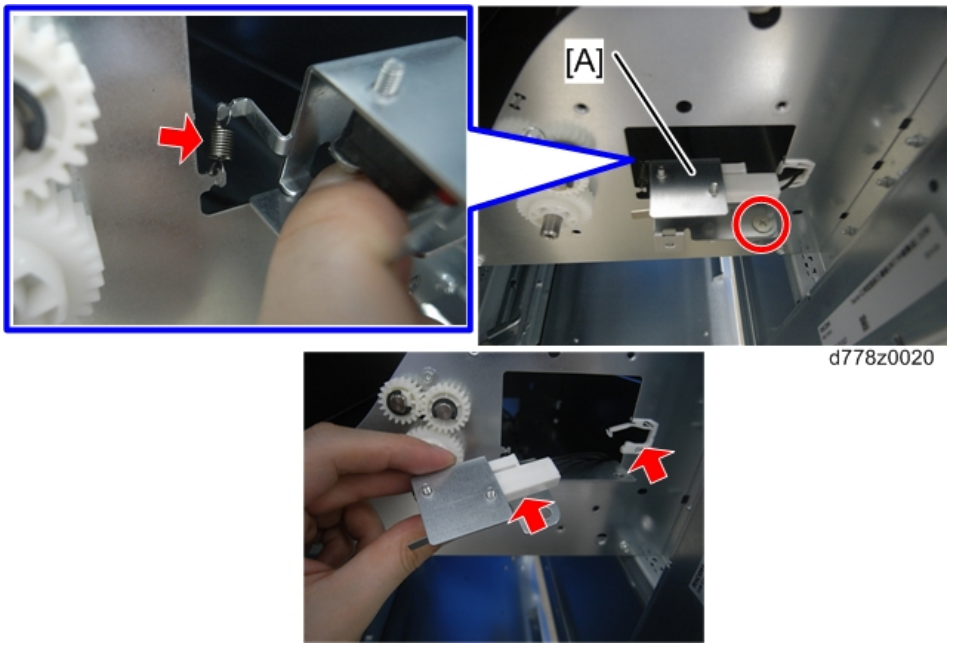
3. **Bracket [A] (x1, x1, spring x1, x1)**



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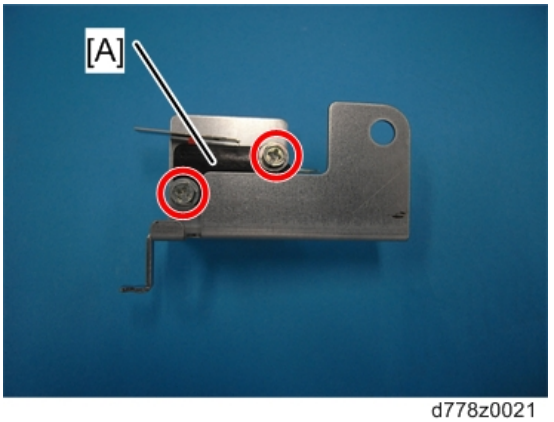
4. **Front door detection switch [A] (x2)**



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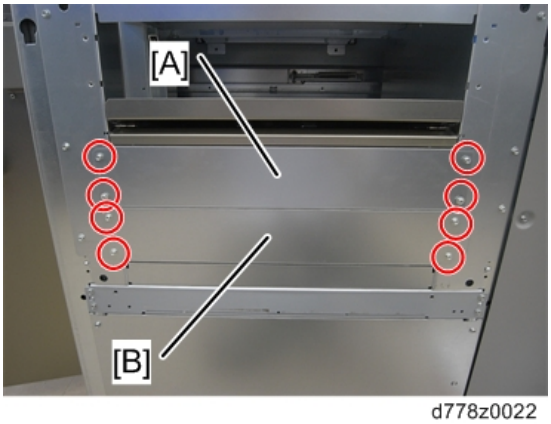
LCIT Connect Entrance Sensor

1. Remove the two plates [A] [B] from the right side of the bridge unit (x8).



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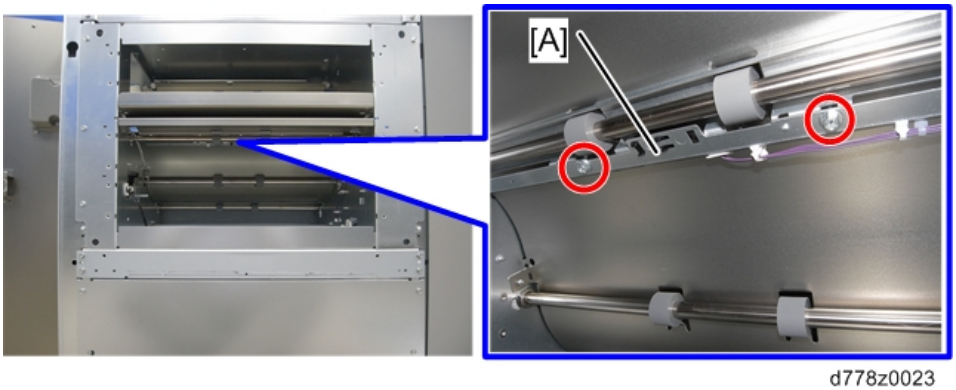
2. Sensor bracket [A] (x2)



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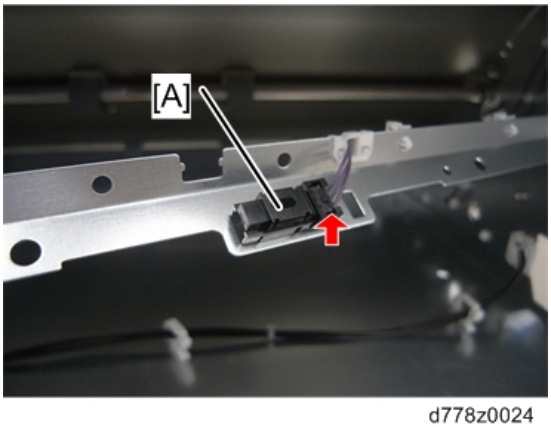
3. LCIT connect entrance sensor [A](x1, x1)



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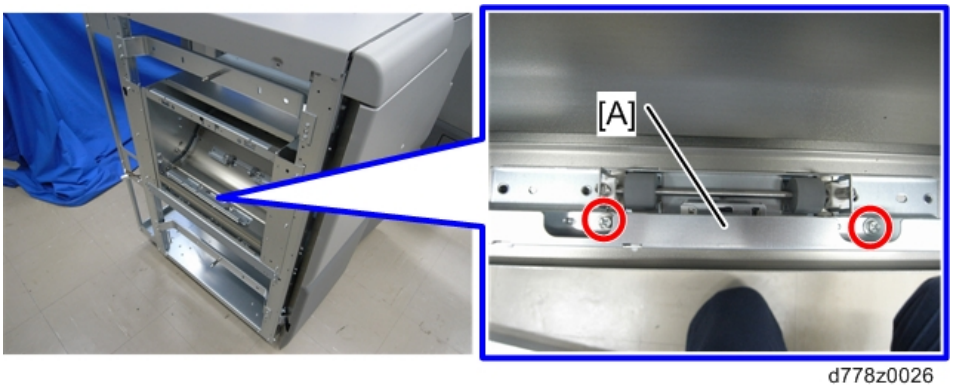
LCIT Connect Exit Sensor

1. Detach the bridge unit from the downstream unit (**page 7 "Detaching From the Downstream Unit"**).
2. Sensor bracket [A] (x2)



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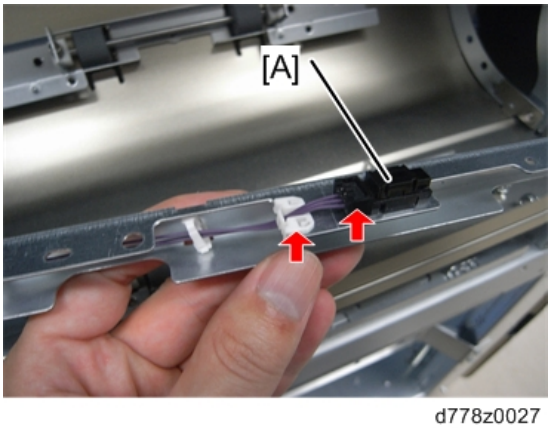
3. LCIT connect exit sensor [A](x1,x1)



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Horizontal Transport Unit

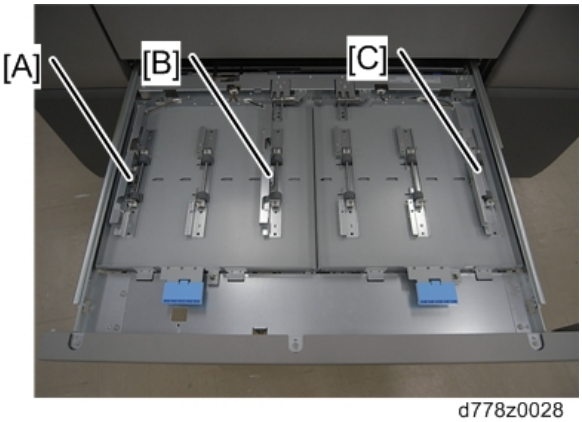
Horizontal Transport Entrance, Middle, Exit Sensor

There are the horizontal transport sensors on the horizontal transport unit of the vacuum feed LCIT.

[A]: Horizontal transport entrance sensor

[B]: Horizontal transport middle sensor

[C]: Horizontal transport exit sensor



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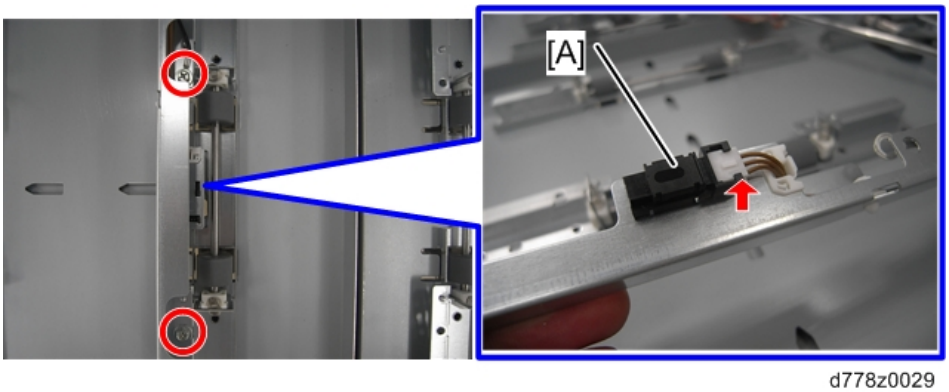
1. **Pull the horizontal transport unit from the vacuum feed LCIT.**
2. **Remove the bracket and then remove the horizontal transport middle sensor [A] (x2, x1).**



d778z0029

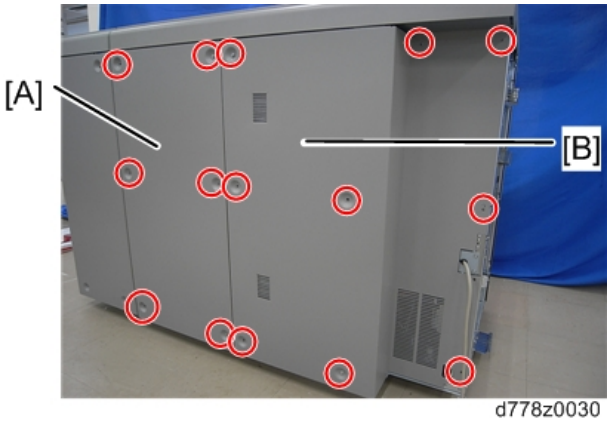
Note

- The horizontal transport entrance sensor and horizontal transport exit sensor also can be removed in the above procedure.

Horizontal Transport Entrance Motor

The horizontal transport entrance motor is in the rear side of the vacuum feed LCIT.

1. **Remove the rear covers [A] [B] from the vacuum feed LCIT (x15).**



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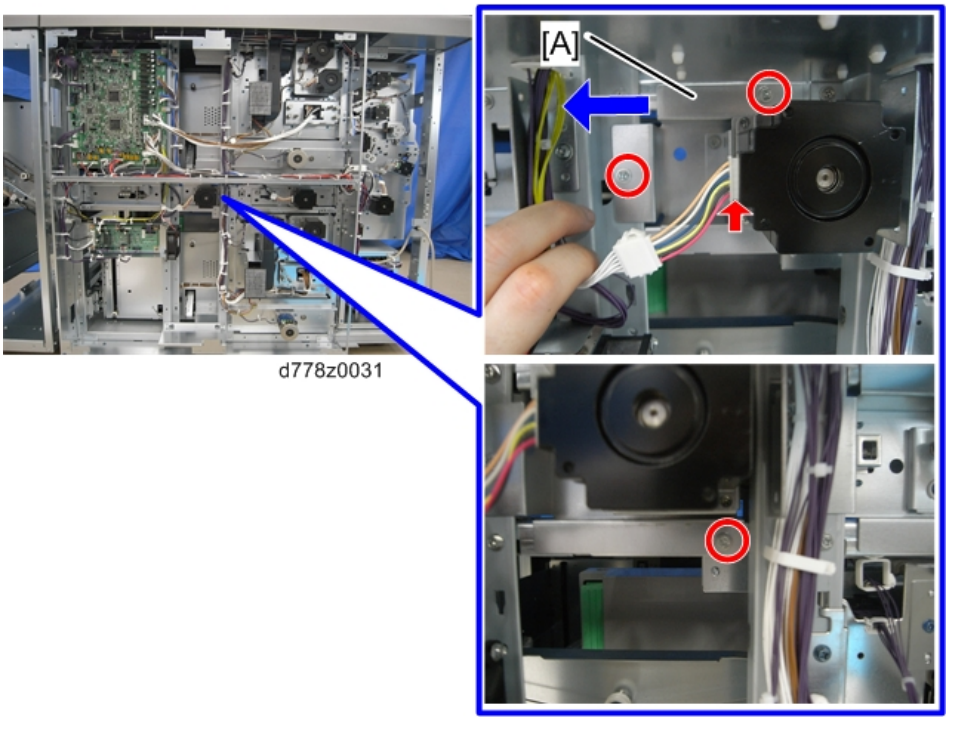
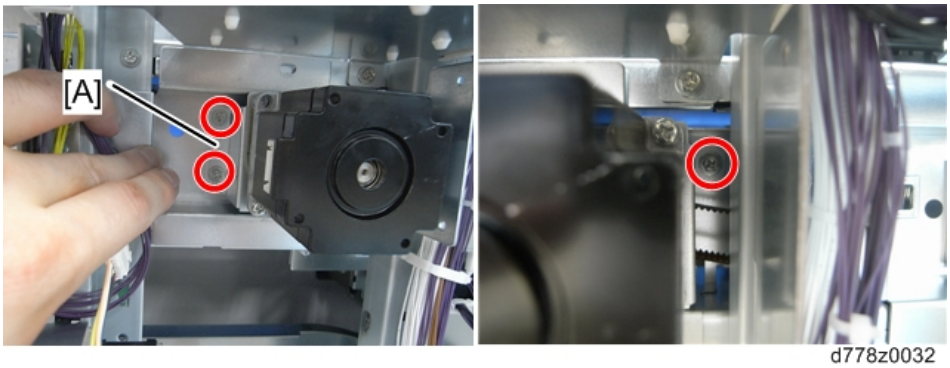
2. **Slide the plate [A] to left (x3, x1).**

   Slide it so that you can see a screw on the right side of the motor bracket.



d778z0031

3. **Motor bracket [A] (x3)**



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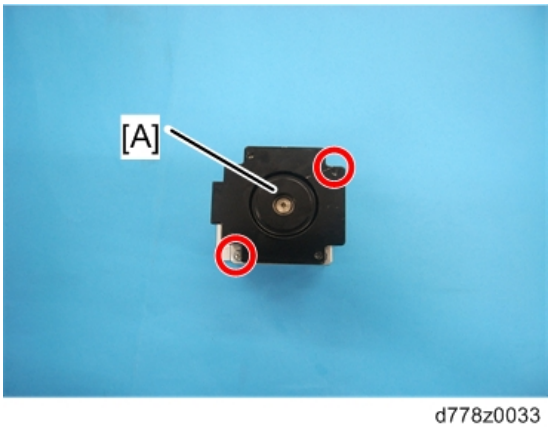
4. **Horizontal transport entrance motor [A](x2)**



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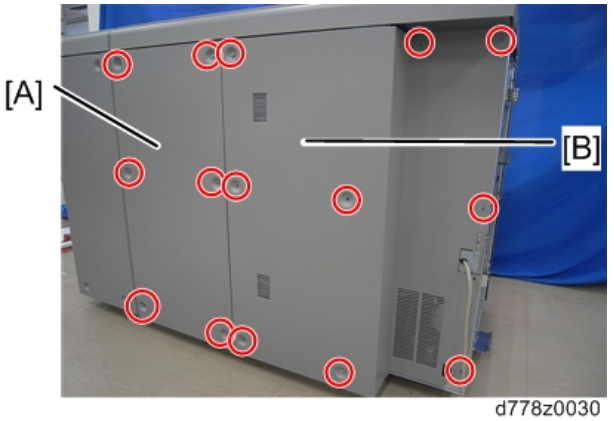
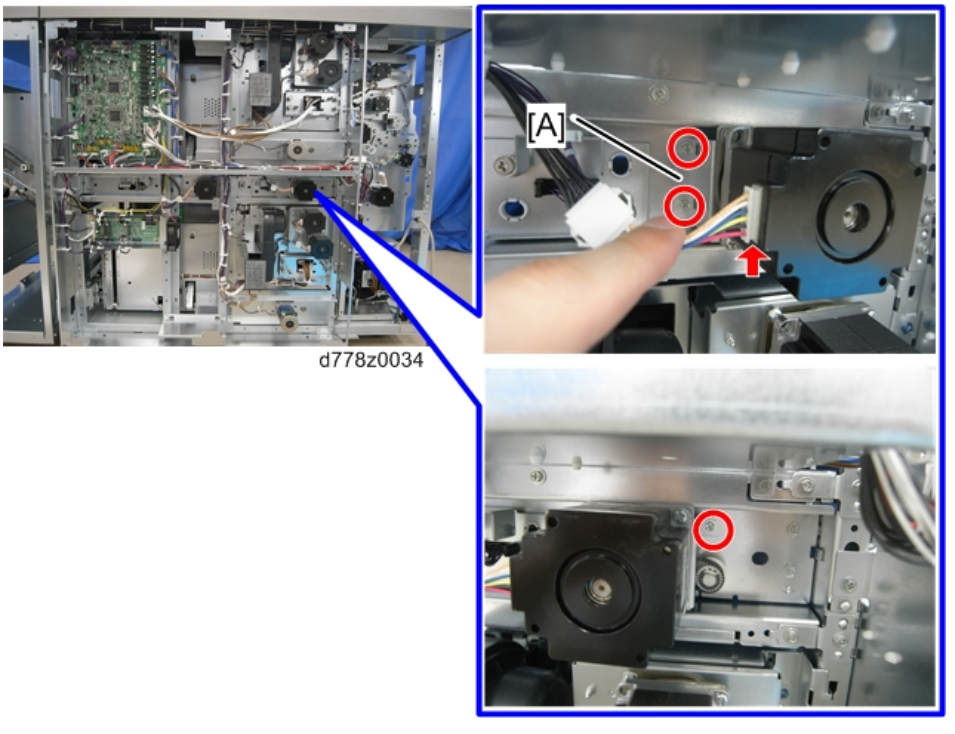
Horizontal Transport Exit Motor

The horizontal transport exit motor is in the rear side of the vacuum feed LCIT.

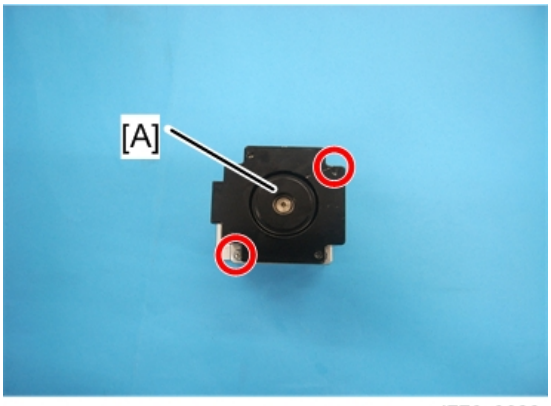
1. **Remove the rear covers [A] [B] from the vacuum feed LCIT (x15).**



2. **Motor bracket [A] (x3, x1)**



3. **Horizontal transport exit motor [A] (x2)**



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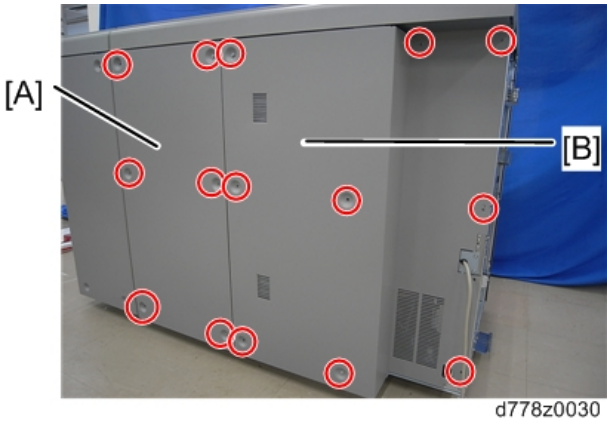
Control Board

The control board is in the rear side of the vacuum feed LCIT.

1. **Remove the rear covers [A] [B] from the vacuum feed LCIT (x15).**



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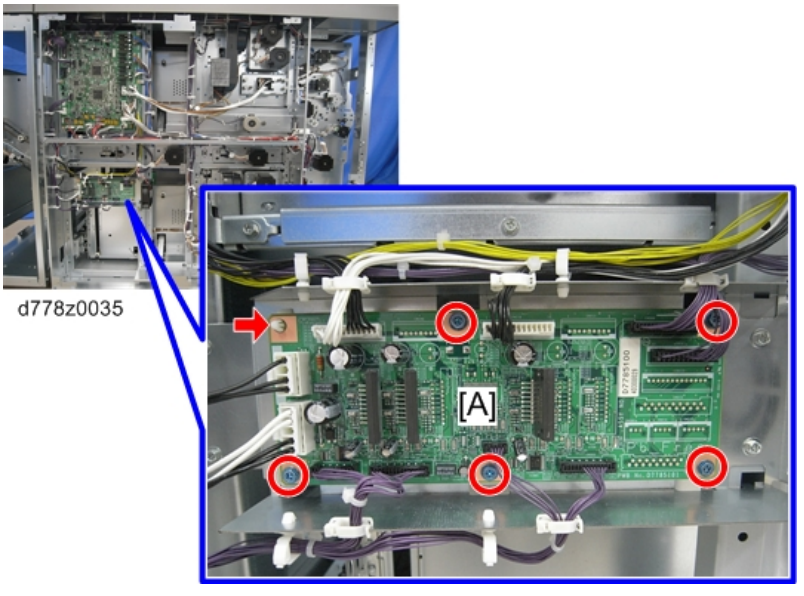
2. **Control board [A] (x5, all)**



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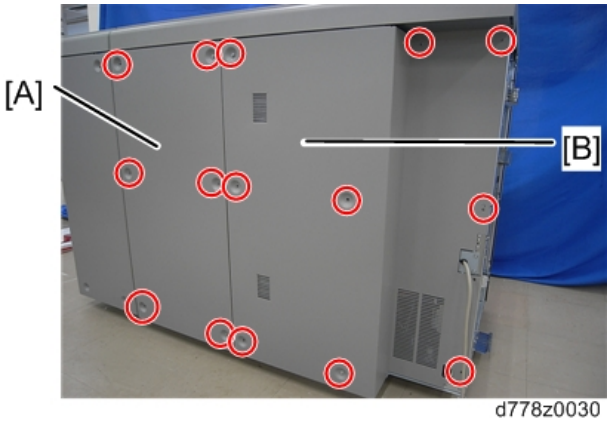
Cooling Fan

The cooling fan is in the rear side of the vacuum feed LCIT.

1. **Remove the rear covers [A] [B] from the vacuum feed LCIT (x15).**



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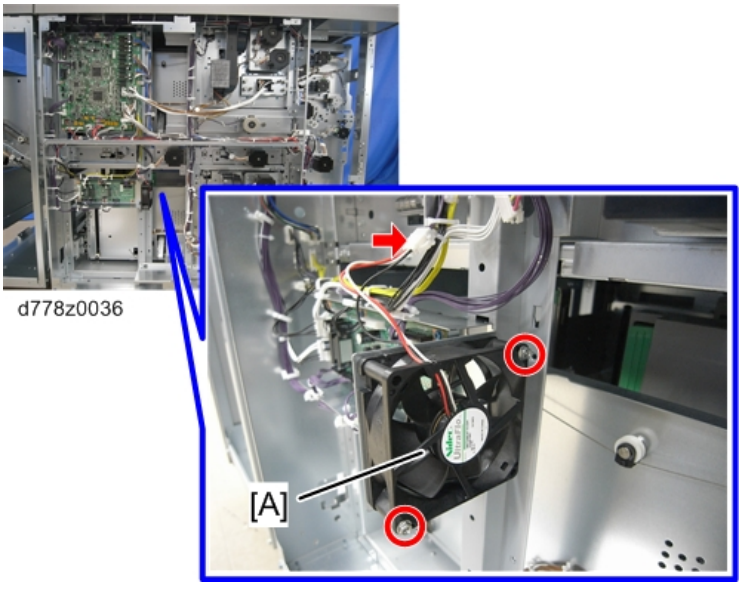
2. **Cooling fan [A] (x2, x1)**



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