

**Booklet Finisher SR3150 /
Finisher SR3140
Machine Code: D686/D687
Field Service Manual**





July, 2014
Subject to change

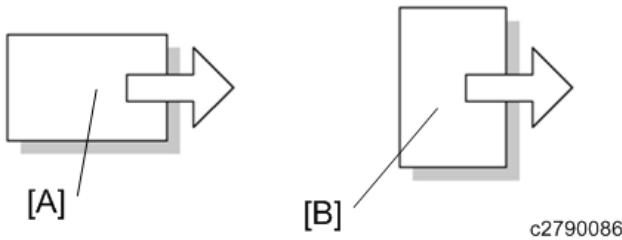
Revision Lists

Version		Details
1.00		Initial release of this document
1.10	Read This First > Safety and Symbols	Changed some icons.

Safety and Symbols

This manual uses several symbols and abbreviations. The meaning of those symbols and abbreviations are as follows:

	Clip ring
	Screw
	Connector
	Clamp
SEF	Short Edge Feed
LEF	Long Edge Feed



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

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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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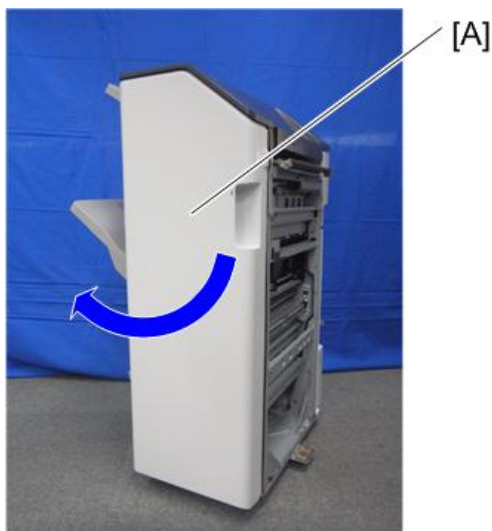
1. Replacement and Adjustment

Exterior Parts

1

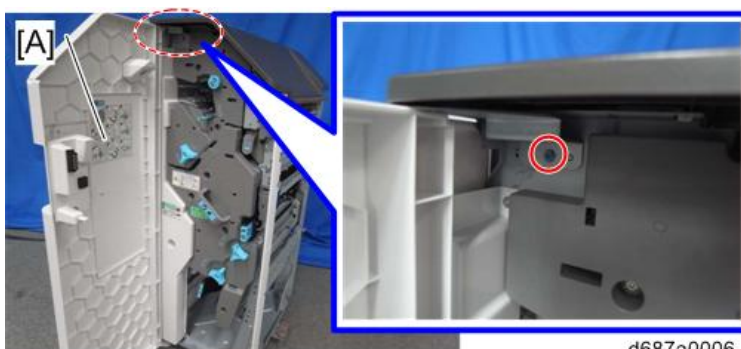
Front Cover

1. Open the front cover [A].



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2. Front cover (S × 1)



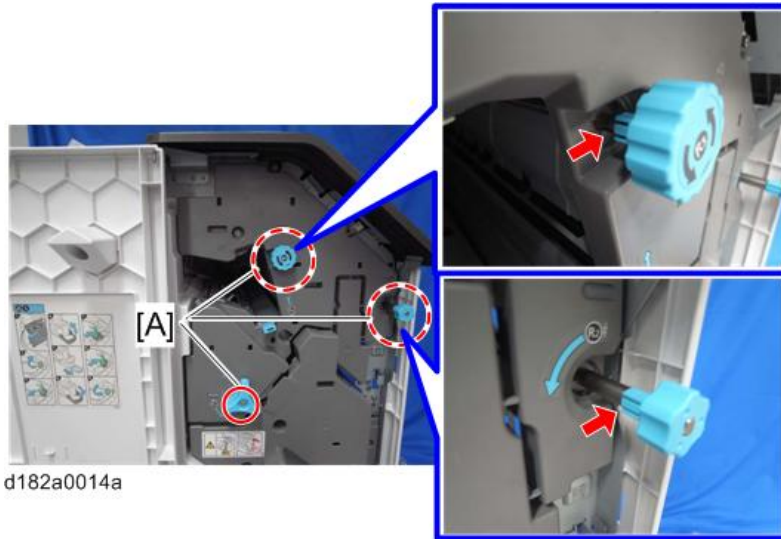
d687a0006

Inner Cover

1. Open the front cover (page 7)

2. Remove the three knobs (hook×1 for each).

- Use a flathead screwdriver to release the hooks of the knobs if the knobs have the hooks to lock.

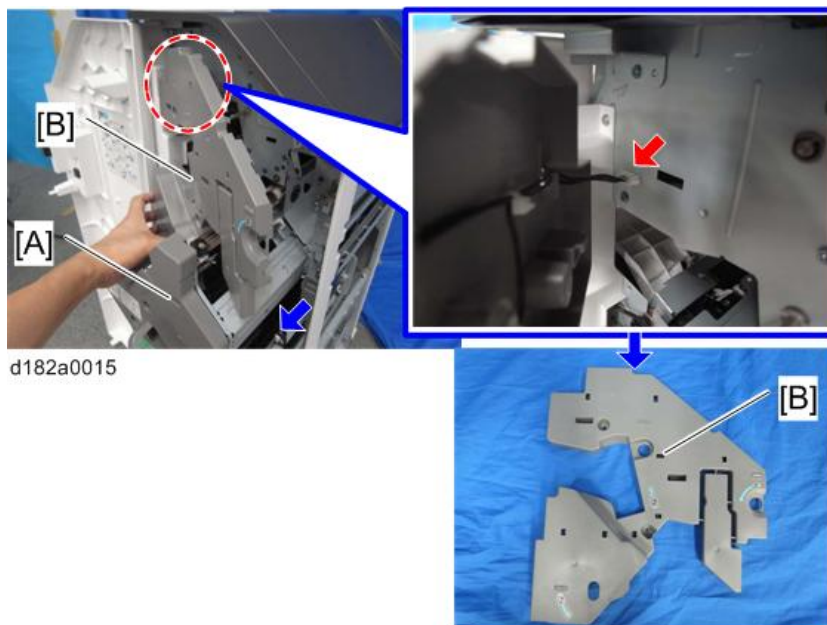


3. Remove the three screws on the inner cover [A] (⌀×3).



4. Pull the booklet stitch unit [A].

5. Inner cover [B] (🔩 ×1)



Rear Cover

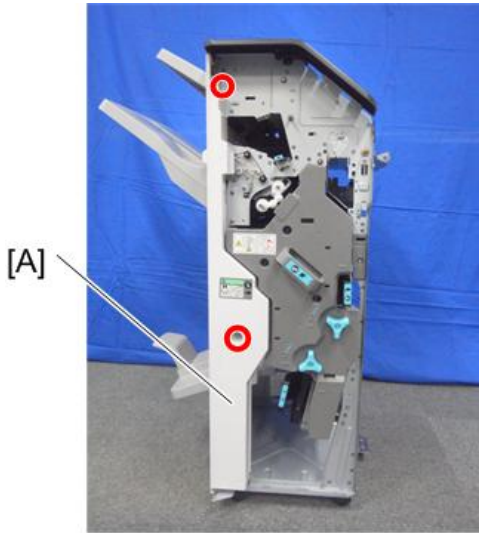
1. Rear cover [A] (🔩 ×2)



Front Left Cover

1

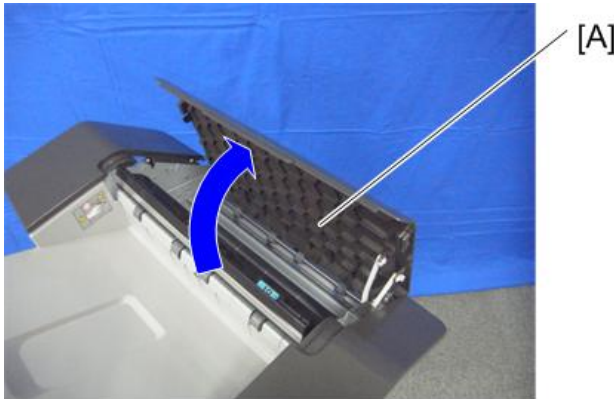
1. Front cover (page 7)
2. Inner cover (page 7)
3. Front left cover [A] (🔩×2)



d6873236

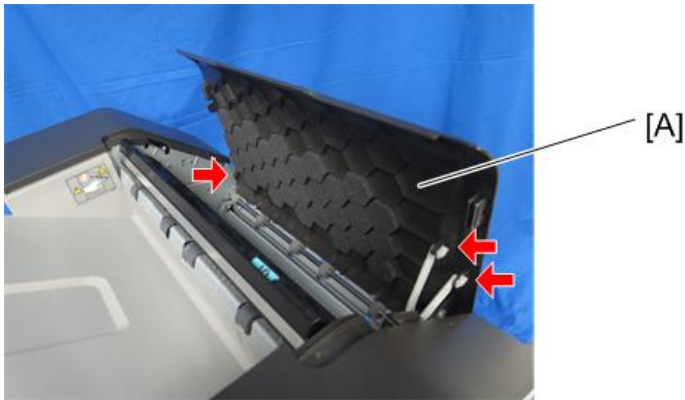
Upper Cover

1. Open the upper cover [A].



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2. Upper cover [A] (⌀×2, hook x 1)



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Note

- When reattaching the upper cover, attach the clips so that their tabs face forward.

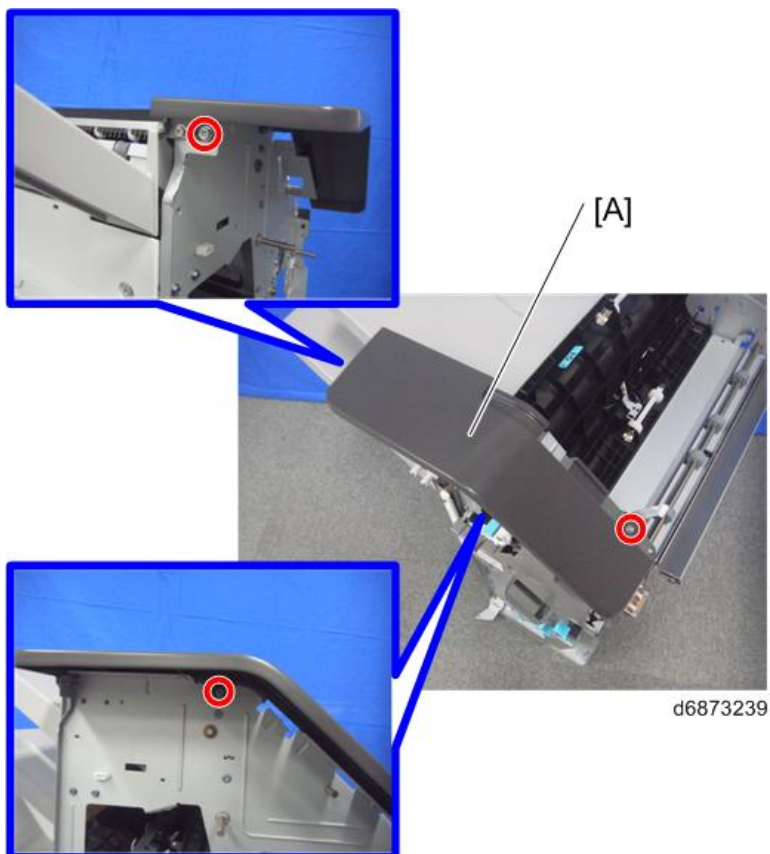


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Upper Front Cover

1. Front left cover (page 10)
2. Upper cover (page 10)

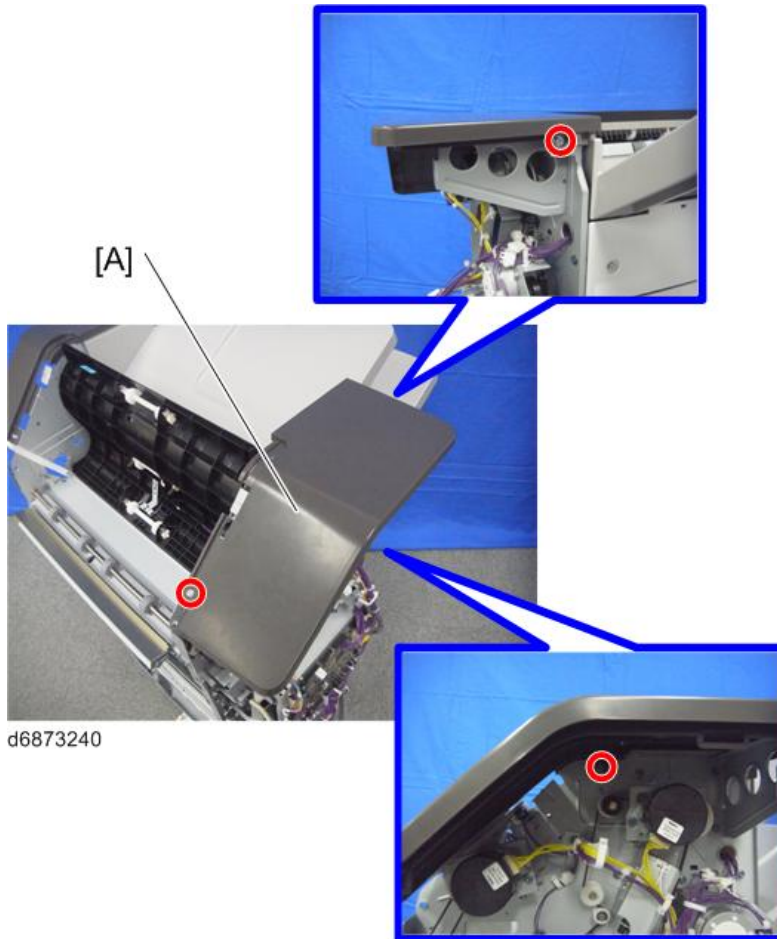
3. Upper front cover [A] (⌀ ×3)



Upper Rear Cover

1. Rear cover (page 9)
2. Upper cover (page 10)

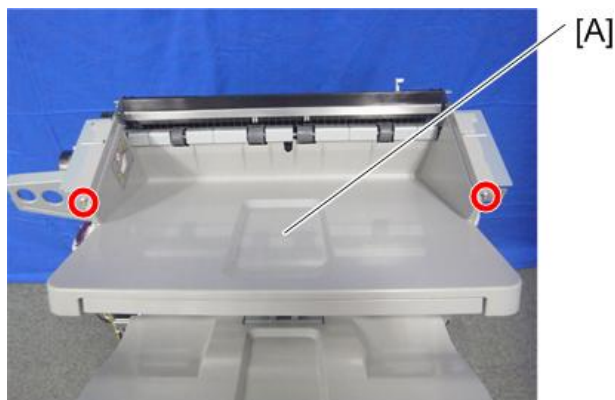
3. Upper rear cover [A] (⑤×3)



Proof Tray

1. Upper front cover (page 11)
2. Upper rear cover (page 12)

3. Proof tray [A] (🔑×2)



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Shift Tray

1. Shift tray [A] (🔑×1)



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Booklet Tray

1. Booklet tray [A]



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1

Upper Left Cover

1. Upper left cover [A] (🔩×2)

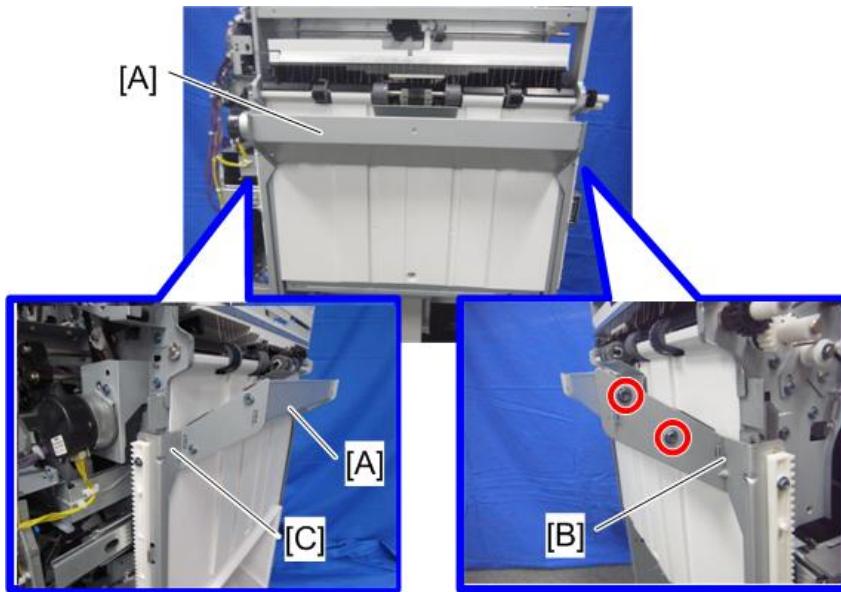


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Left Center Cover

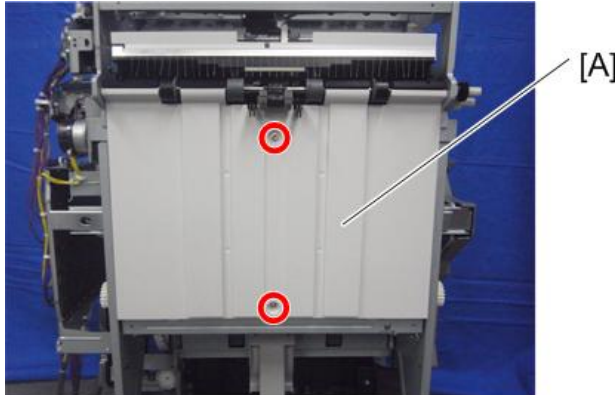
1. Front cover (page 7)
2. Rear cover (page 9)
3. Shift tray (page 14)
4. Shift tray front bracket [B] (🔩×2)

5. Shift tray bracket [A] with the shift tray rear bracket [C]



d687z0002a

6. Left center cover [A] (⚙️ ×2)



d6873246

Left Lower Cover

1. Front cover (page 7)
2. Rear cover (page 9)
3. Booklet tray (page 15)

4. Left lower cover [A] (🔩×2)



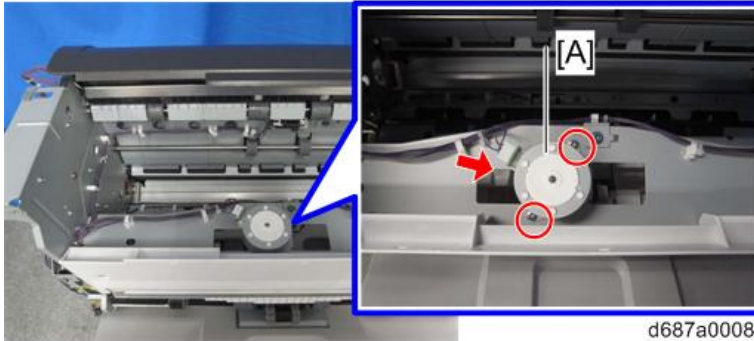
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Main Unit

1

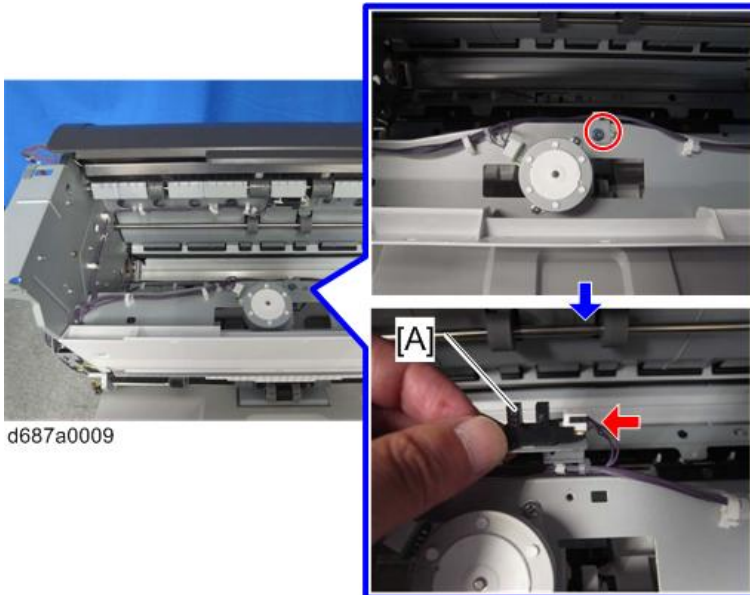
Paper Eject Cover Open/Close Motor

1. Proof tray (page 13)
2. Paper eject cover open/close motor [A] (⚙️ ×2, 📦 ×1)



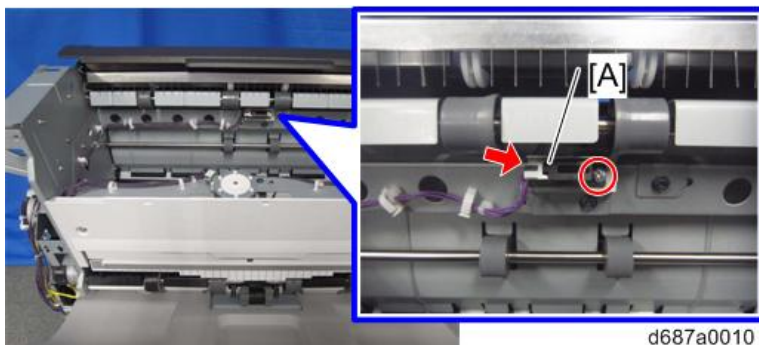
Paper Guide Plate Open/Close HP Sensor

1. Proof tray (page 13)
2. Paper eject cover HP sensor [A] (⚙️ ×1, 📦 ×1)



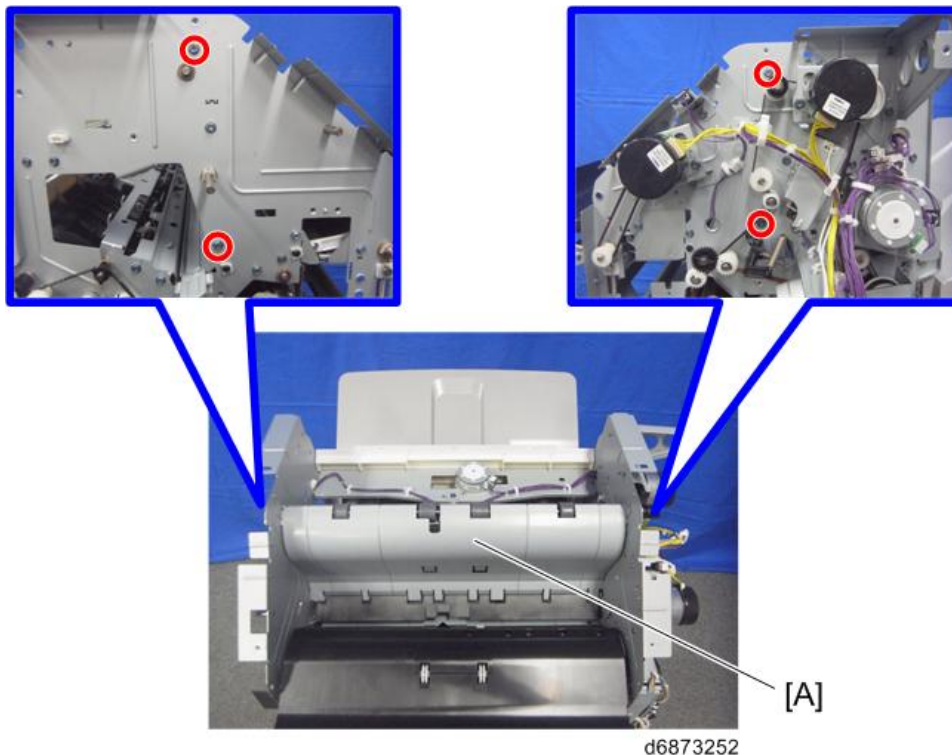
Proof Tray Full Sensor

1. Proof tray (page 13)
2. Proof tray full sensor [A] (⌀ × 1, ⓧ × 1)



Proof Tray Paper Eject Sensor

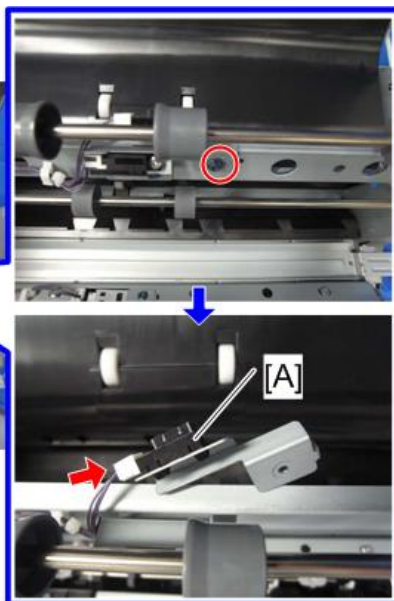
1. Proof tray (page 13)
2. Proof transport bracket [A] (⌀ × 4)



3. Proof paper eject sensor [A] (⚙️×1, 📦×1)

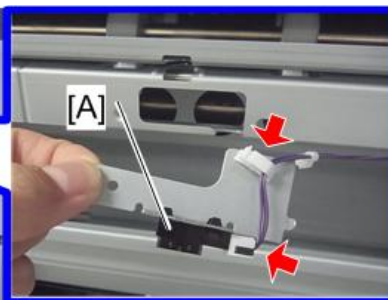


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Entrance Sensor

1. Entrance sensor [A] (⚙️×1, 📦×1, 📦×1)



d146z0018a

Intermediate Transport Sensor Right

1. Open the upper cover (page 10).

2. Remove the clip of the upper cover [A].



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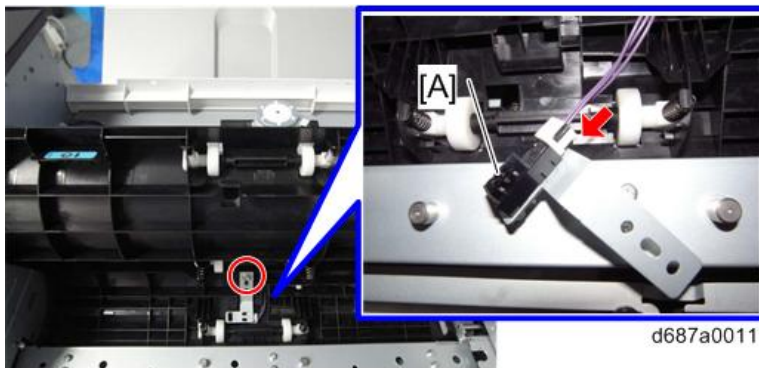
Note

- When reattaching the upper cover, attach the clips so that their tabs face the inside of the unit.



d1822297

3. Intermediate transport sensor right [A] (⚙️ ×1, 📦 ×1,)

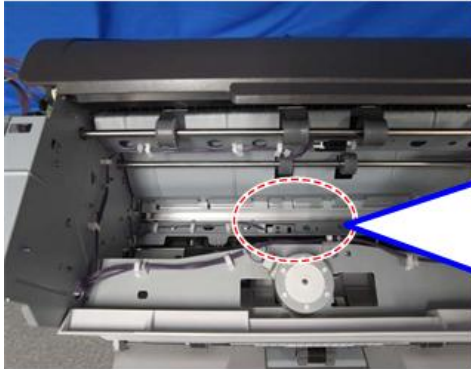


d687a0011

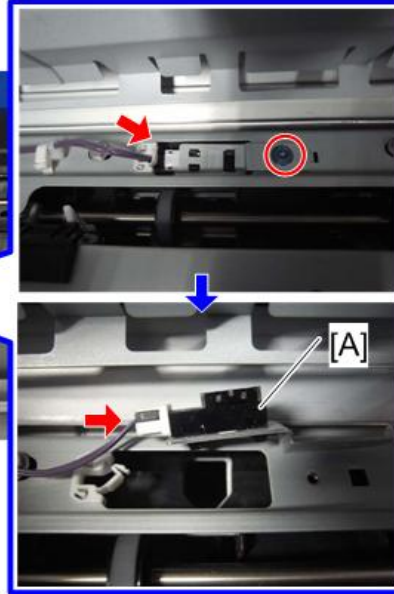
Intermediate Transport Sensor Left

1

1. Proof tray (page 13)
2. Intermediate transport sensor left [A] (⚙️ ×1, 📦 ×1, 🛠️ ×1)



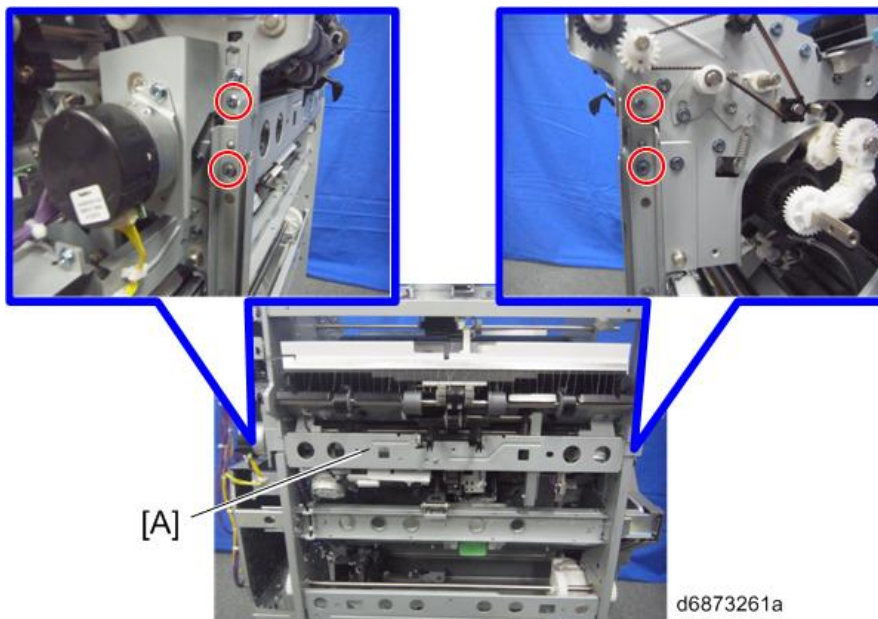
d687a0013



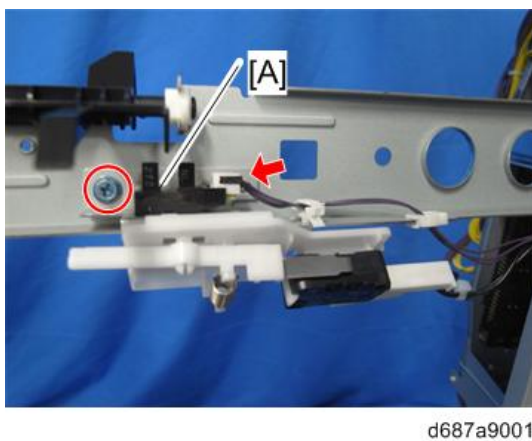
Shift Tray Paper Surface Sensor

1. Left center cover (page 15)

2. Bracket [A] (🔩×4)



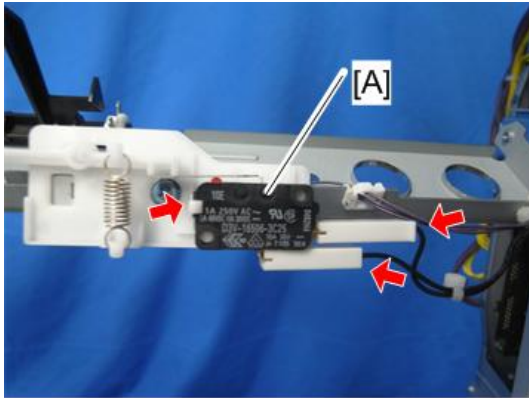
3. Shift tray paper surface sensor [A] (🔩×1, 📦×1)



Shift Tray Upper Limit Switch

1. Bracket of the shift tray (page 22)

2. Shift tray upper limit switch [A] (🔌 x2, hook x 1)



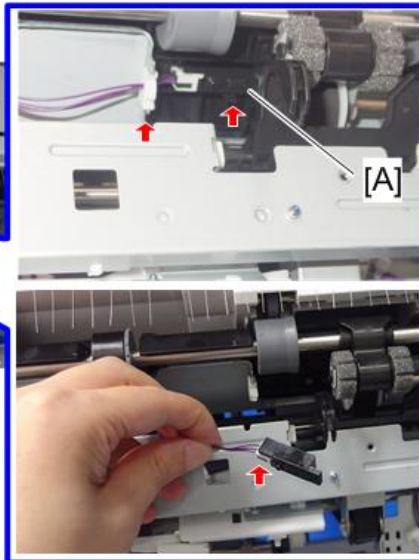
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Shift Tray Paper Eject Sensor

1. Left center cover (page 15)
2. Shift tray paper eject sensor [A] (hook x1, 🔌 x1, 📌 x1)



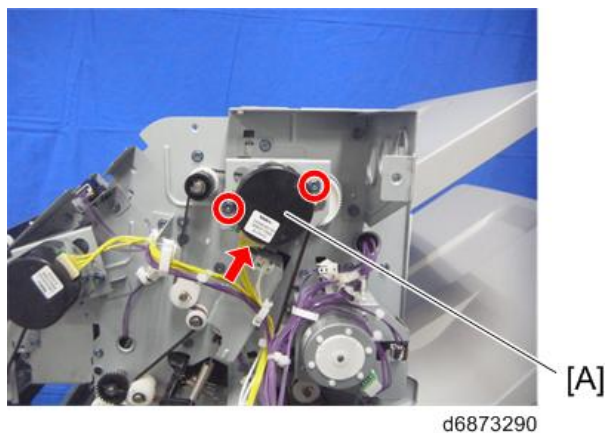
d687z3266



Proof Transport Motor

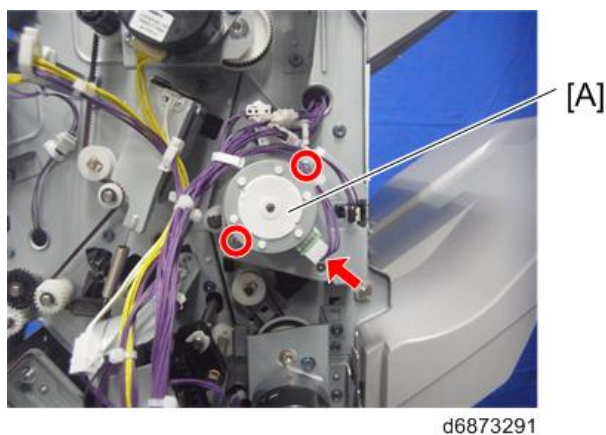
1. Rear cover (page 9)

2. Proof transport motor [A] (🔧 ×2, 📦 ×1)



Positioning Roller Motor

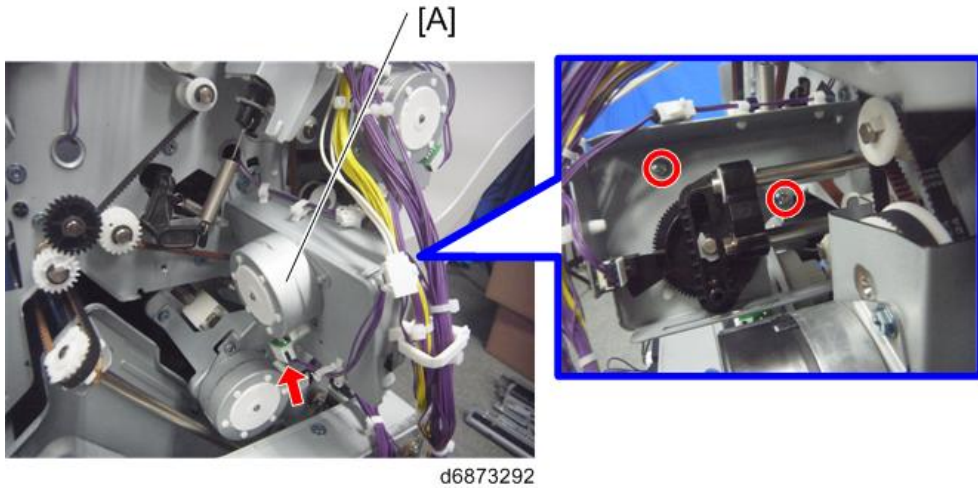
1. Rear cover (page 9)
2. Positioning roller motor [A] (🔧 ×2, 📦 ×1)



Shift Motor

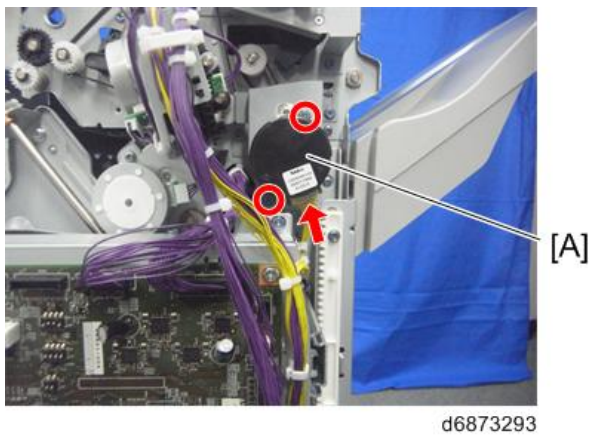
1. Rear cover (page 9)

2. Shift motor [A] (⚙️ ×2, 📦 ×1)



Paper Eject Transport Motor

1. Rear cover (page 9)
2. Paper eject transport motor [A] (⚙️ ×2, 📦 ×1)



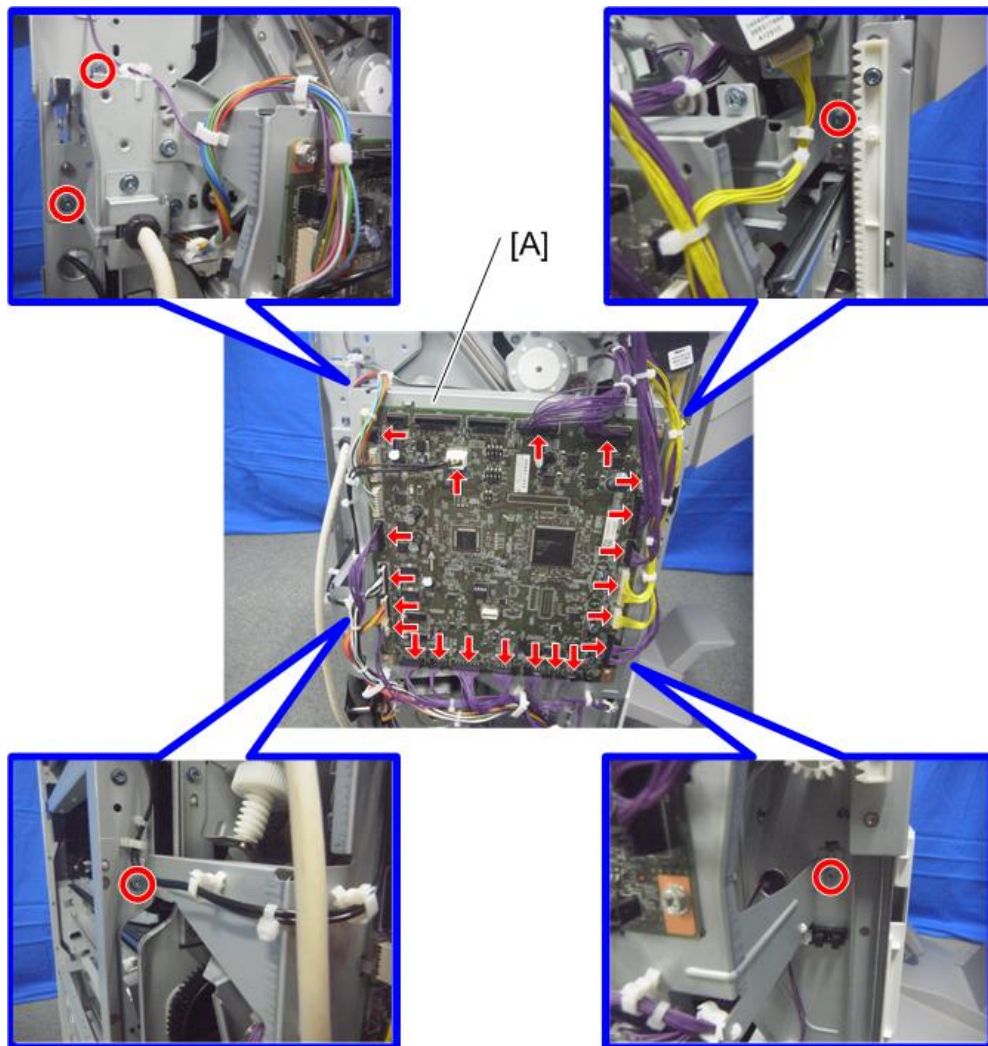
Paper Bundle Transport Upper Motor

1. Rear cover (page 9)

2. Filler [A] (🔑×1)

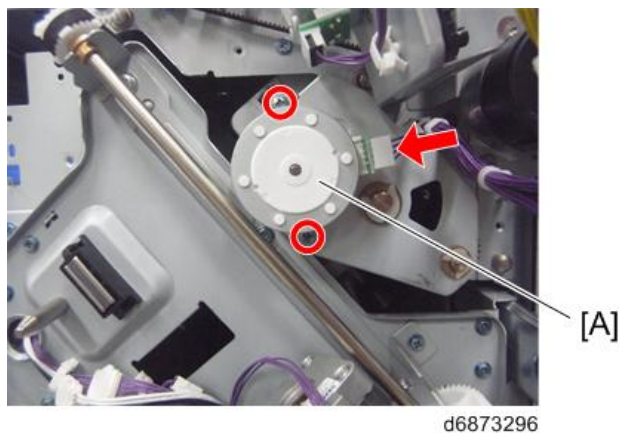


3. Control board bracket [A] (⚙️×5, 📦×21, 🛠️×17, ground plate×1)



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4. Paper bundle transport upper motor [A] (⚙️ ×2, 📦 ×1)

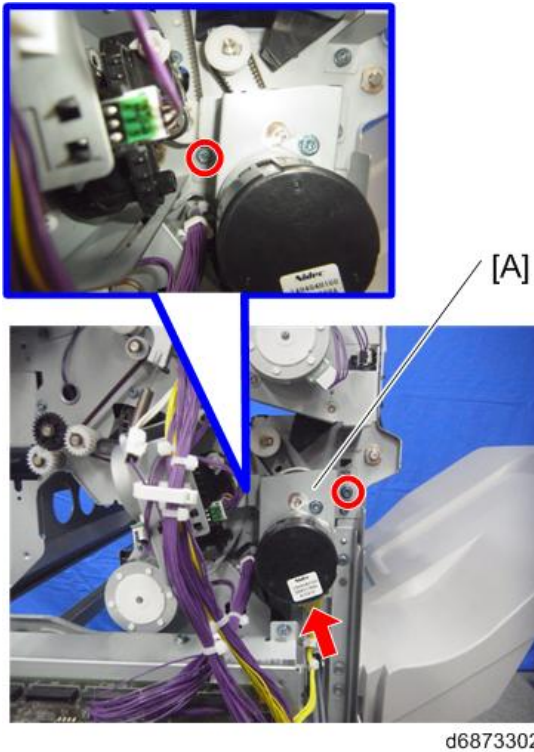


1

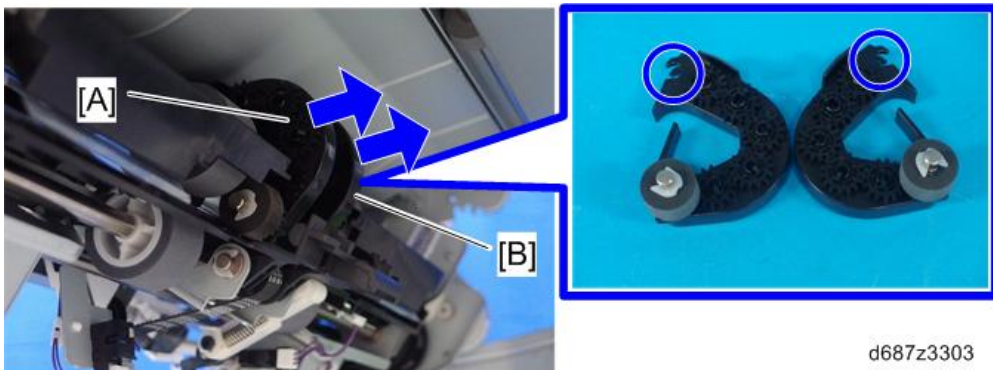
Stapler Tray

1. Inner cover (page 7)
2. Front left cover (page 10)
3. Booklet stapler unit (Booklet Stapler Unit)

4. Paper eject transport motor bracket [A] (⚙️ ×2, 📦 ×1)



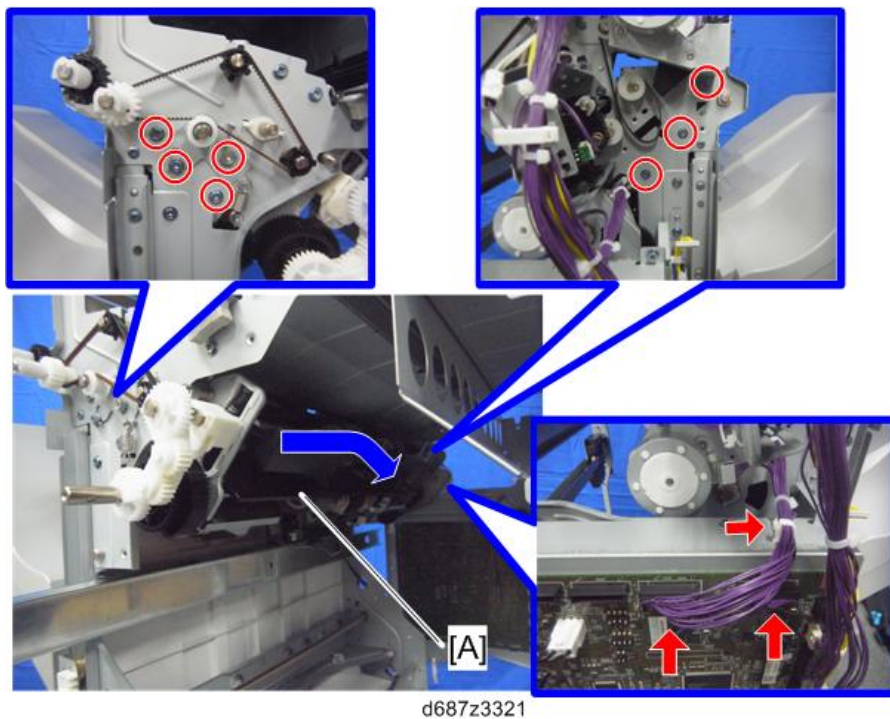
5. Approach roller (front) [A], approach roller (rear) [B]



⚠️ Note

- Be careful not to damage the shape of the claw enclosed by the blue circle when removing the approach rollers.

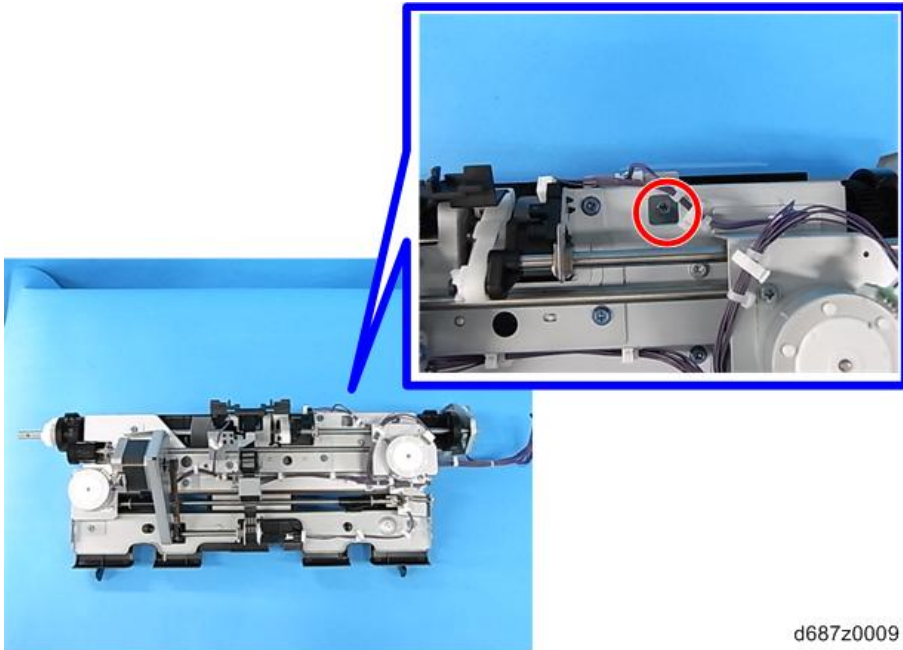
6. Stapler tray [A] (⚙️ x7, 📦 x2, 🛠️ x1)



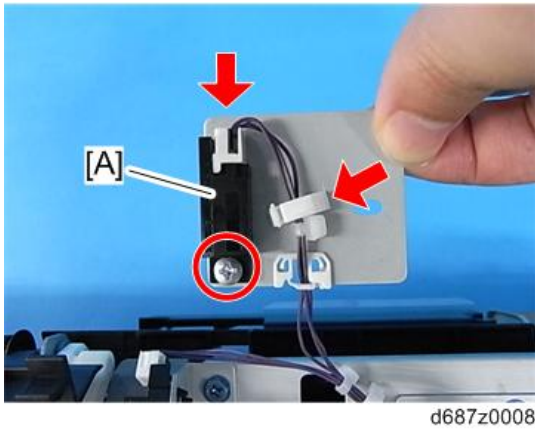
Stapler Tray Paper Detection Sensor

1. Stapler tray (page 29)

2. Stapler tray paper detection sensor bracket [A] (🔩x1)



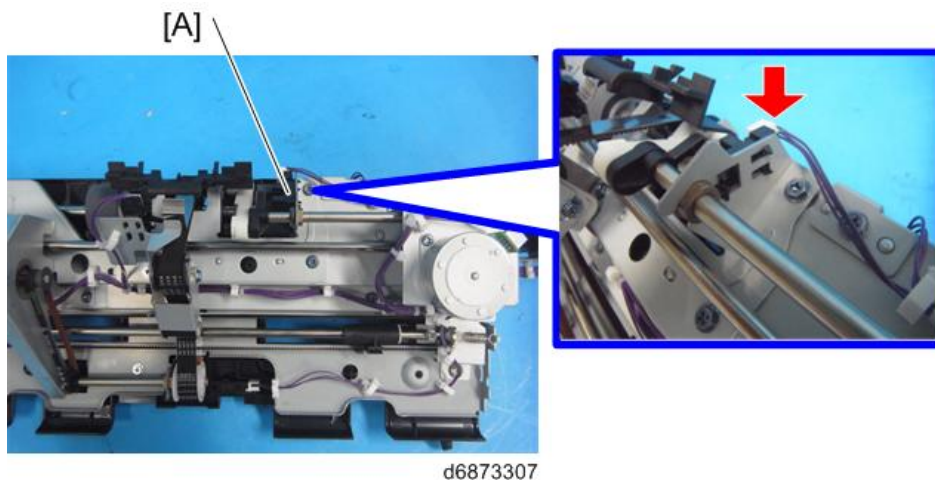
3. Stapler tray paper detection sensor [A] (🔩x1, 📦x1, 📦x1)



Paper Bundle Transport Upper Pressure Release HP sensor

1. Stapler tray (page 29)

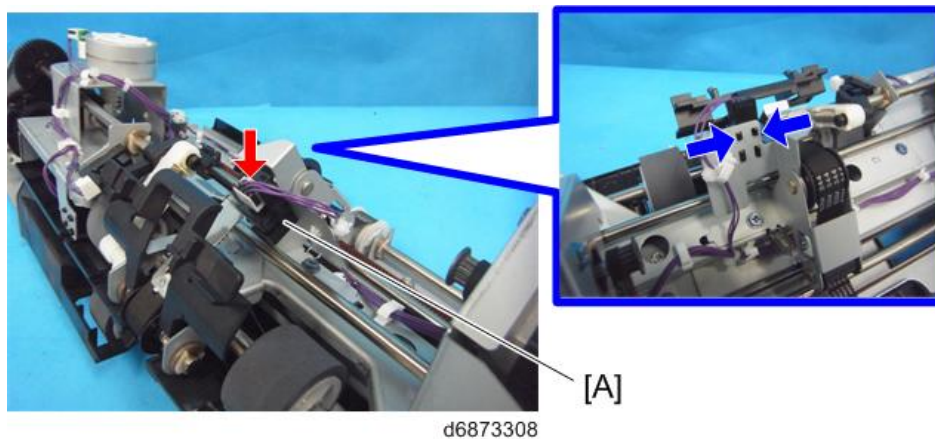
2. Paper bundle transport upper pressure release HP sensor [A] (📦 ×1)



1

Release Claw HP Sensor

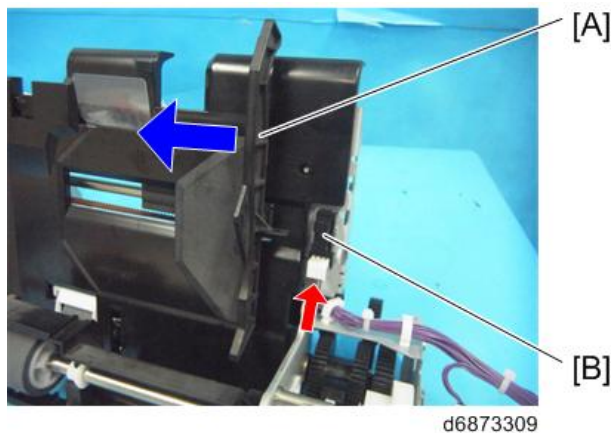
1. Stapler tray (page 29)
2. Release claw HP sensor [A] (📦 ×1)



Jogger HP Sensor

1. Stapler tray (page 29)

2. Separate the jogger fence [A] from the jogger HP sensor [B].



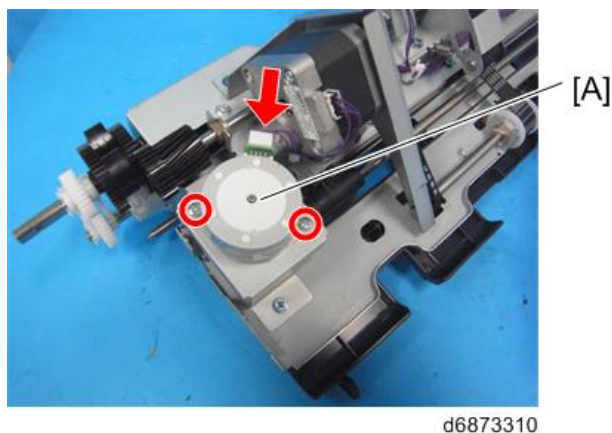
3. Jogger HP sensor (🔌 ×1)

Note

- Release and remove the claw with a small driver, etc.

Jogger Motor

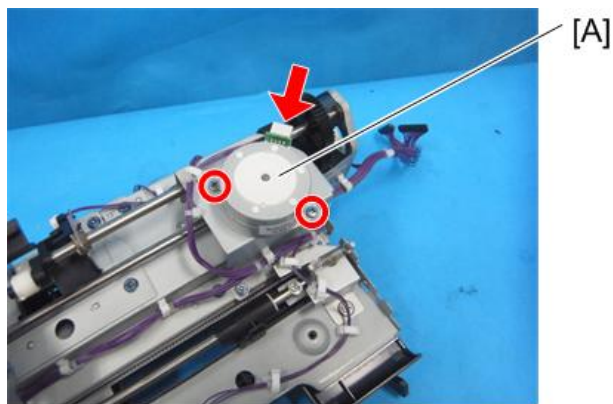
1. Stapler tray (page 29)
2. Jogger motor [A] (🔩 ×2, 📦 ×1)



Paper Bundle Transport Upper Pressure Release Motor

1. Stapler tray (page 29)

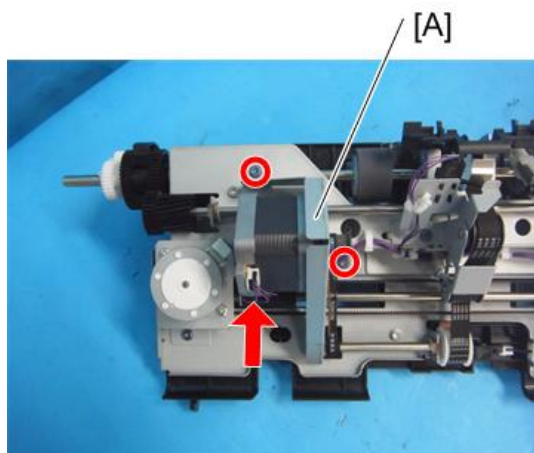
2. Paper bundle transport upper pressure release motor [A] (⚙️×2, 📦×1)



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Release Claw Motor

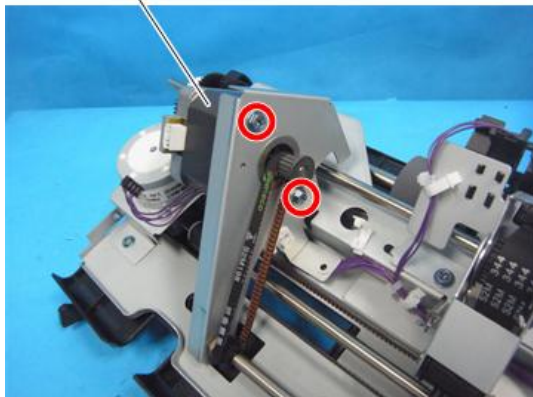
1. Stapler tray (page 29)
2. Release claw motor bracket [A] (⚙️×2, 📦×1, 🛠️×2)



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3. Release claw motor [A] (⌚×2)

[A]



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Boards

Main Control Board

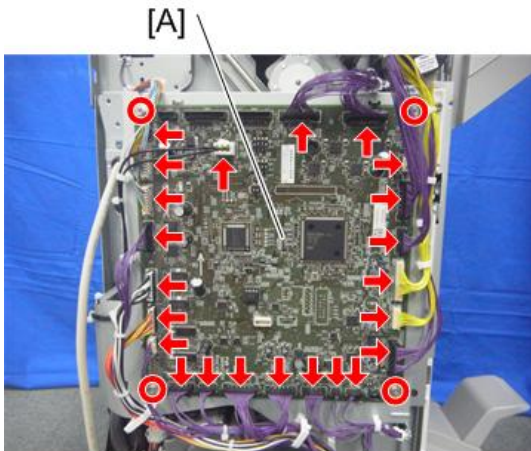
1

↓ Note

- An EEPROM is installed in the control board to record the drive frequency and number of sheets.
- When the control board is replaced, take the EEPROM off the old board and install it on the new one.
- (There is an EEPROM on the new main control board, but this is not needed and can be discarded or kept as a spare part.)

1. Rear cover (page 9)

2. Main control board [A] (⚙️ ×4, 📦 ×23)



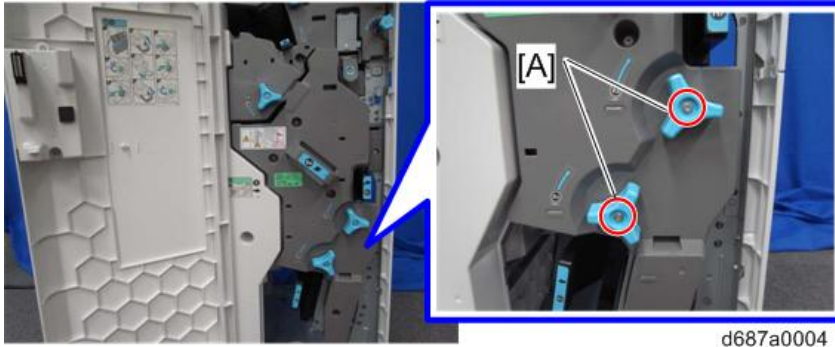
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Booklet Stapler Unit

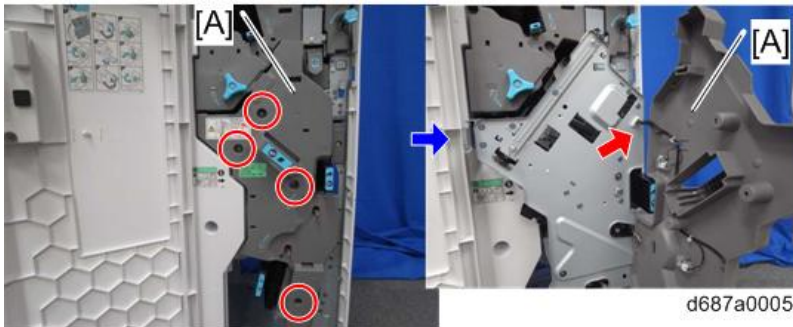
1

Stapler Unit

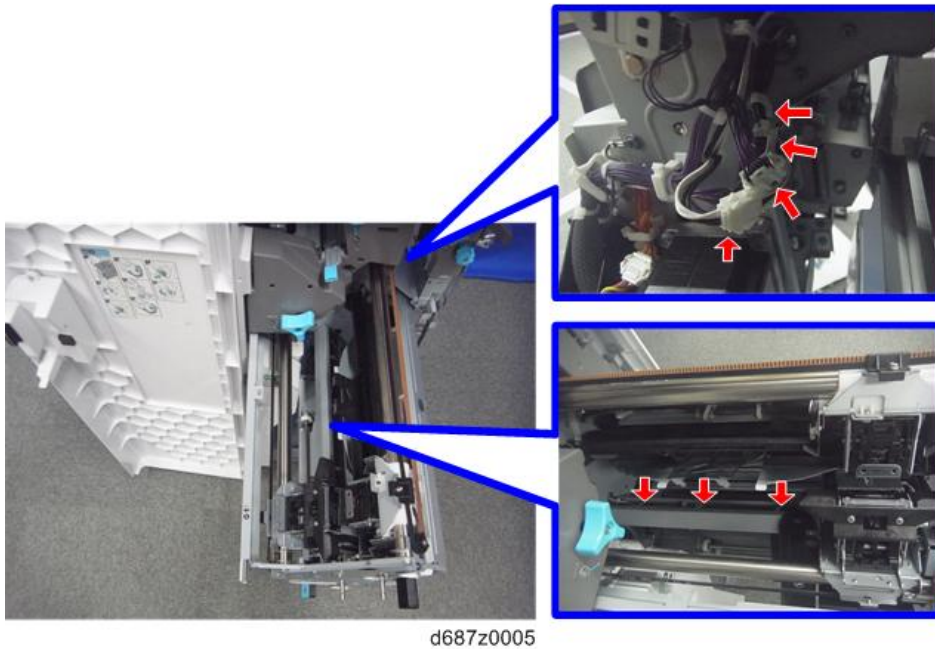
1. Open the front cover, and then remove two knobs (🔑 x1 for each)



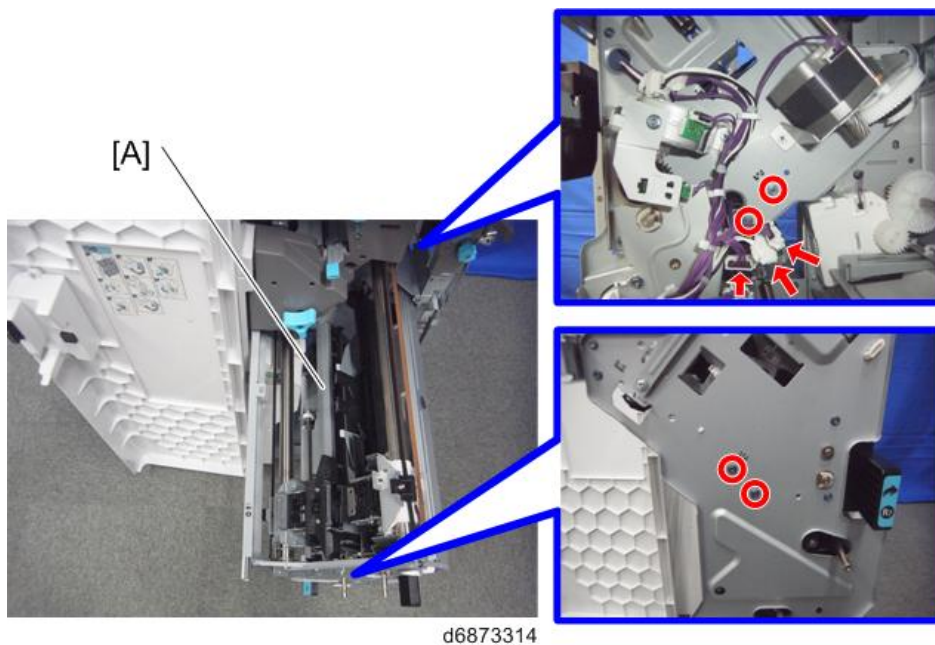
2. Booklet stitch unit cover (🔑 x4, 📦 x1)



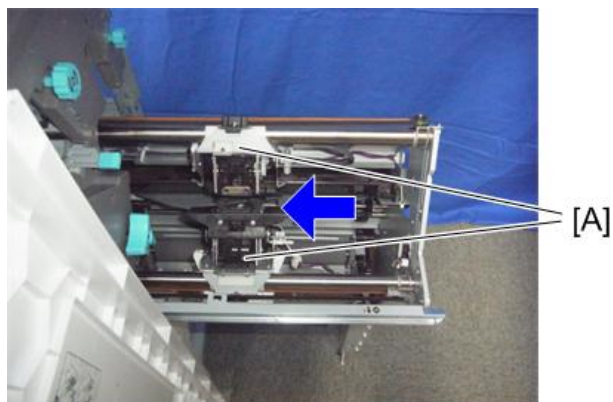
3. Pull out the booklet stitch unit, and then disconnect three connectors and release four clamps on the stapler unit.



4. Bracket [A] (🔩×4, 📦×3, 🛠️×1)

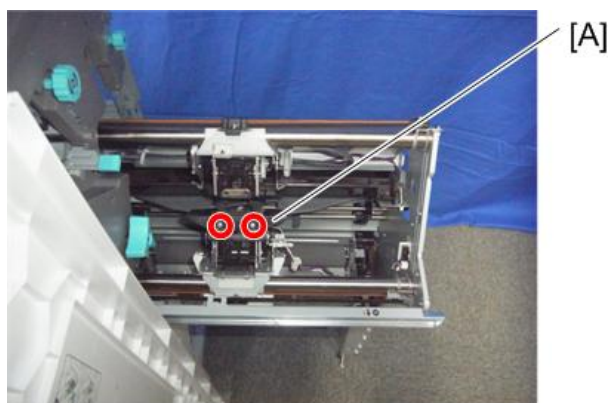


5. Bring the stapler unit [A] near the center.



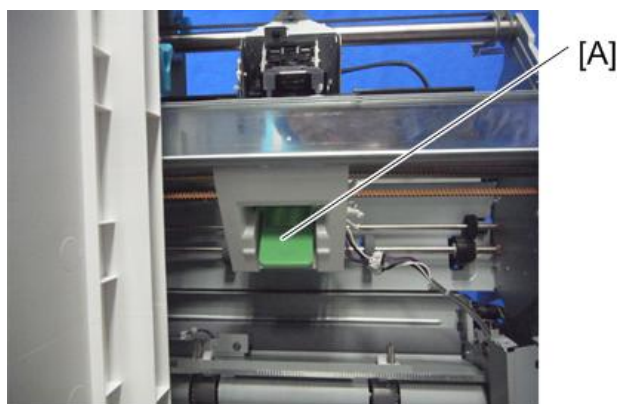
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6. Guide plate [A] (⚙️×2)

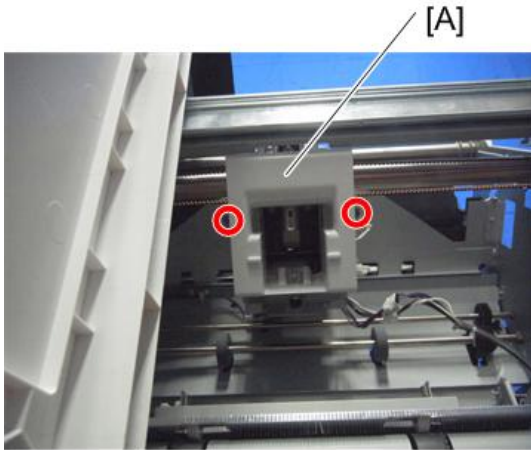


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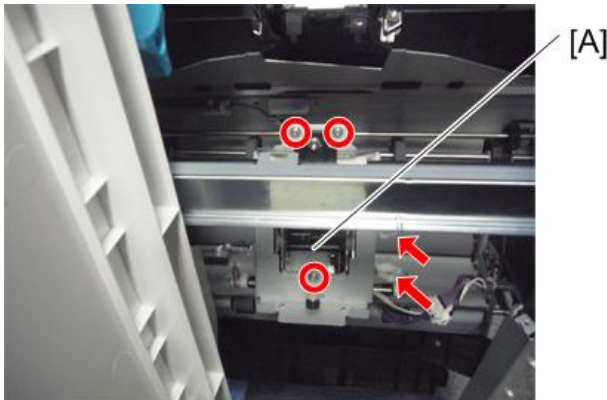
7. Stapler cartridge [A]



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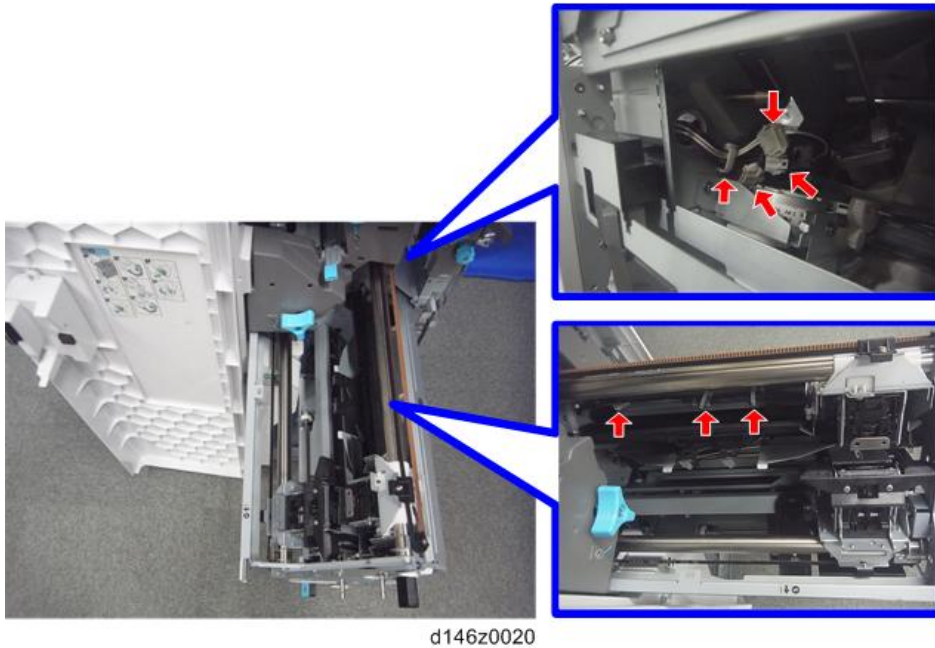
8. Cover [A] (🔩×2)

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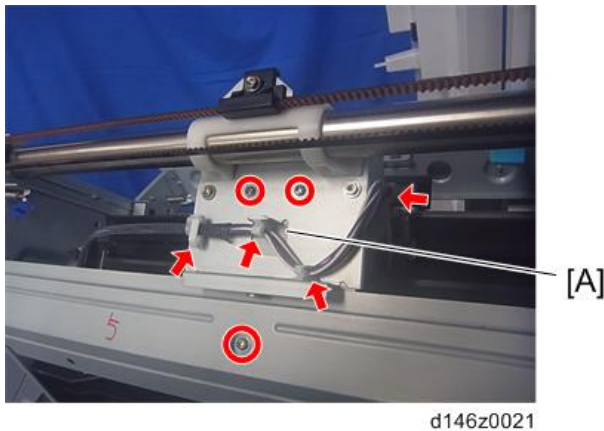
9. Stapler unit (clincher side) [A] (🔩×3, 📦×2)

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10. Disconnect three connectors and release four clamps on the stapler unit (driver side).



11. Stapler unit (driver side) [A] ($\odot \times 3$, $\otimes \times 4$)

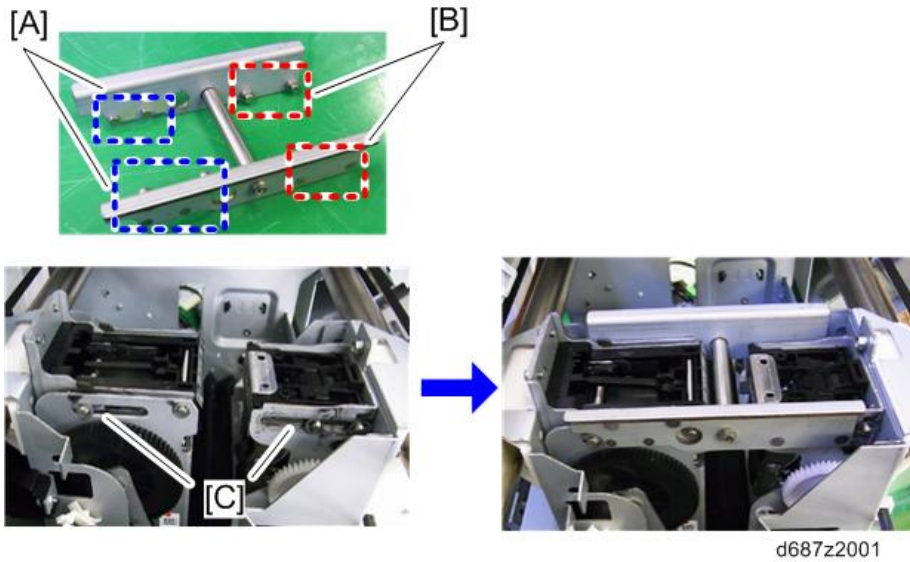


12. Attach the special tool to the stapler unit to adjust the staple position of the stapler unit.

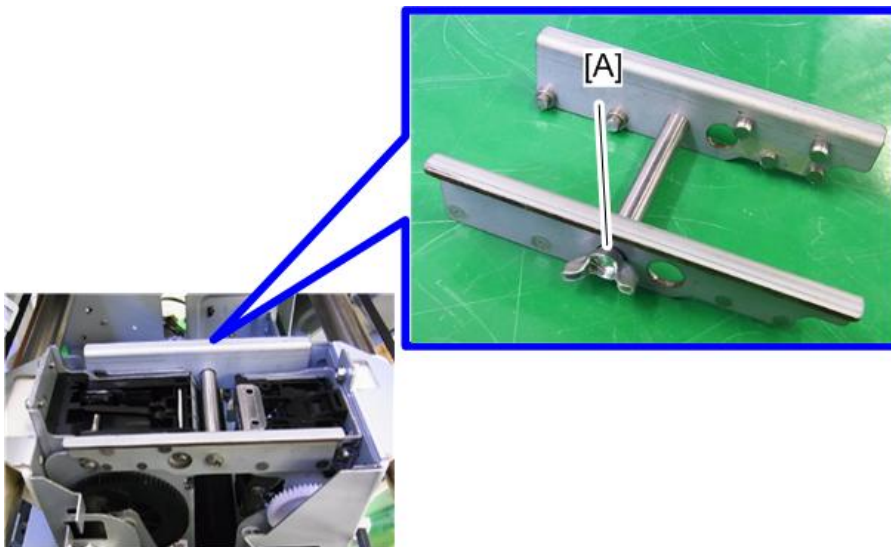
Check that four pins ([A] and [B]) on the special tool are fixed in the slots [C] on the stapler unit as shown below.

[A]: Two pins for driver

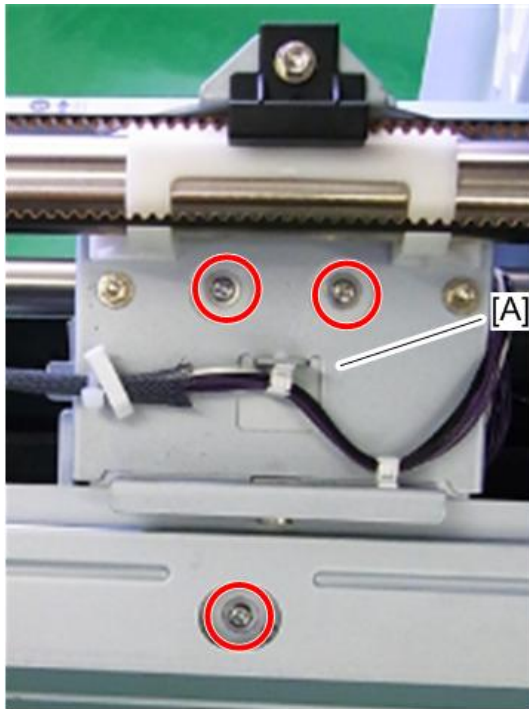
[B]: Two pins for clincher



13. Tighten the wing screw [A] on the special tool to secure the stapler and special tool.



14. Tighten the screws completely to secure the clincher side [A] of the stapler (⌀×3).



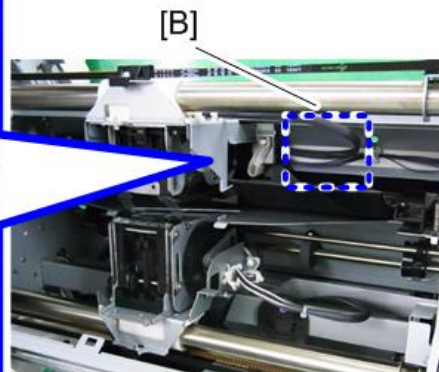
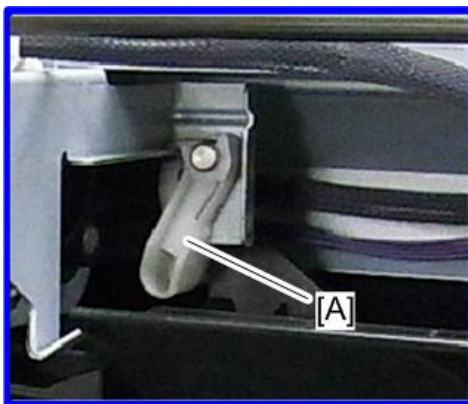
d687z2003

15. Loosen the wing screw to remove the special tool.

16. Reattach all the removed parts.

↓ Note

- Make sure that the harnesses [B] are routed behind the resin part [A]. Otherwise, the harnesses block the route of the stapler, which causes a stapler transfer motor error.



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17. Check that the stapler works properly.

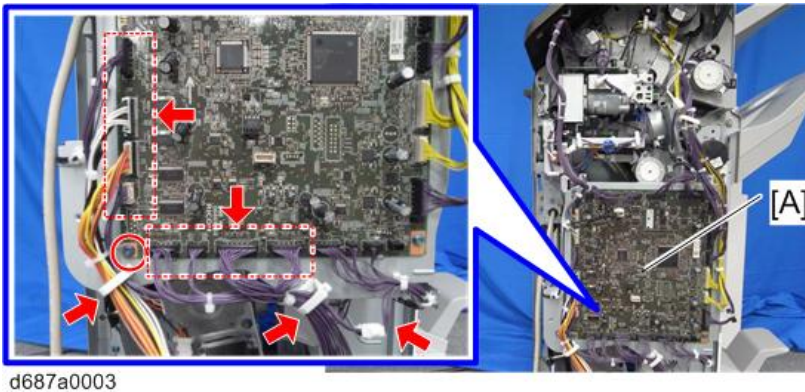
↓ Note

- All staple patterns must be checked.
- If there are any problems with the clincher, adjust the staple position with the special tool again.

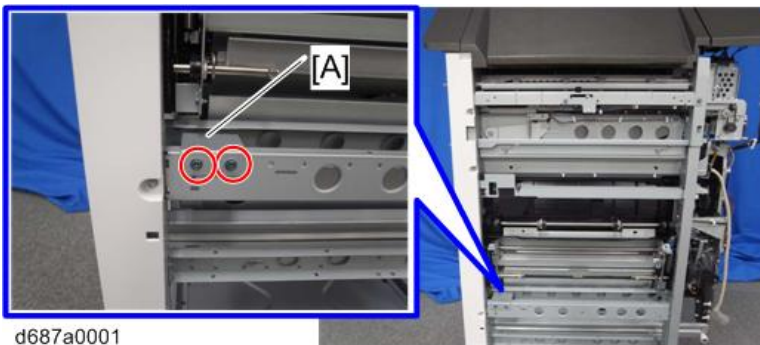
1

Booklet Stapler Unit

1. Rear cover (page 9)
2. Remove connectors (🔌x9, 🌀x2, ground platex1)

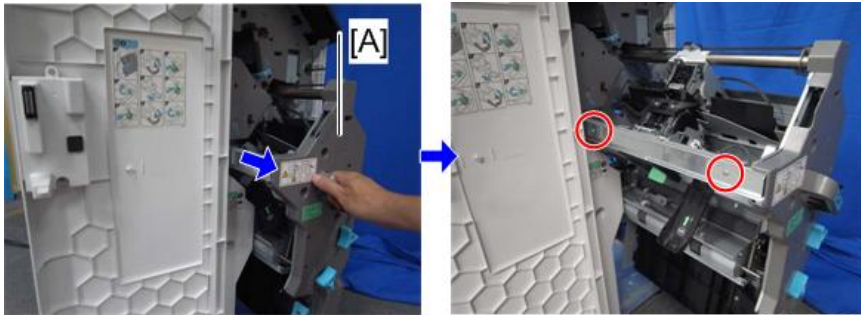


3. Stopper [A] (🌀x2)



4. Open front cover (page 7)
5. Pull out the booklet stapler unit [A].

6. Booklet stapler unit (🔑×2)



d687a0002

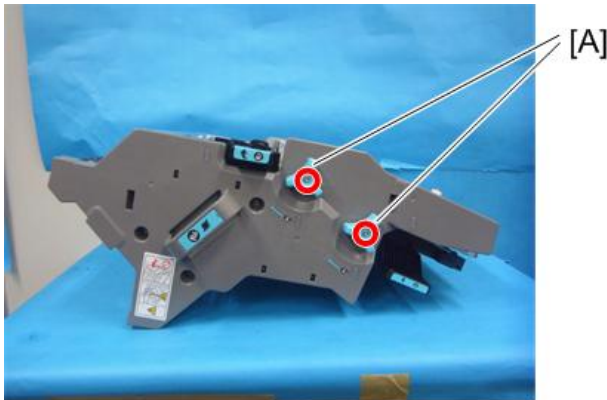
↓ Note

- When you remove the booklet stapler unit from the main frame, be careful not to catch the cable on the frame.

Center-Folding Unit

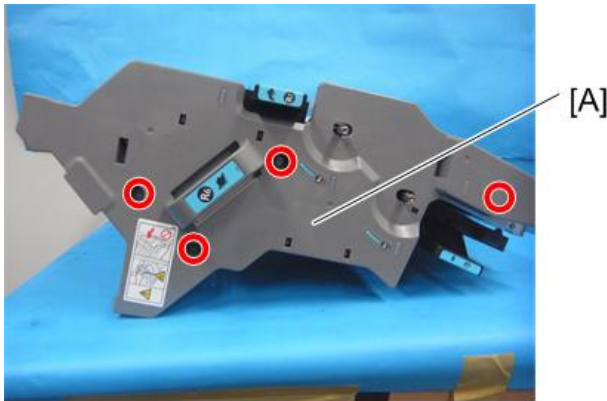
1. Booklet stapler unit (page 45)

2. Knobs [A] (🔑×2)



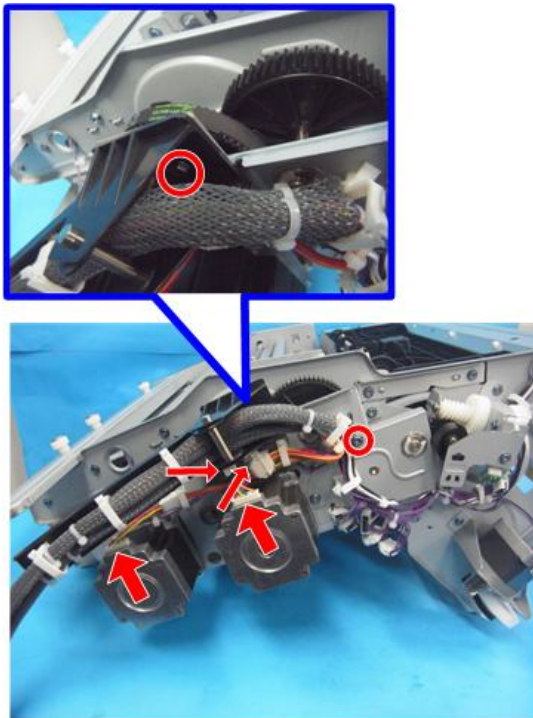
d6873271

3. Booklet stapler unit cover [A] (⌀ ×4, □ ×1)



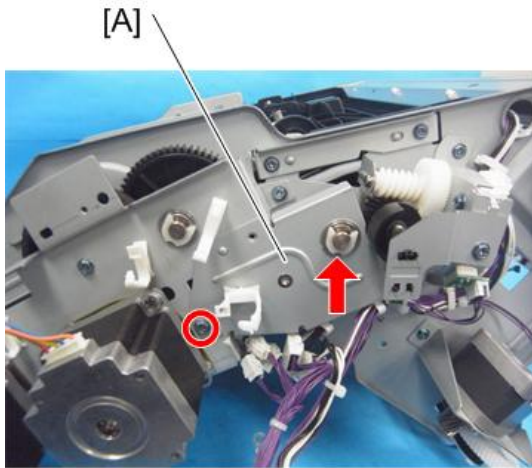
d687z0003

4. Remove connectors (⌀ ×1, □ ×4, ⌀ ×4, ground plate ×1)



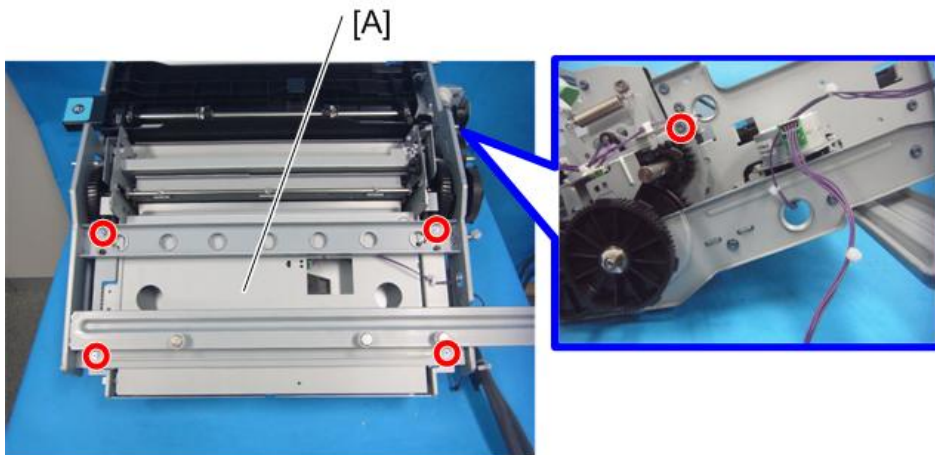
d6873273

5. Bracket [A] (⌀×1, ⌀×3, ⌀×1)



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6. Center-folding unit [A] (⌀×5)

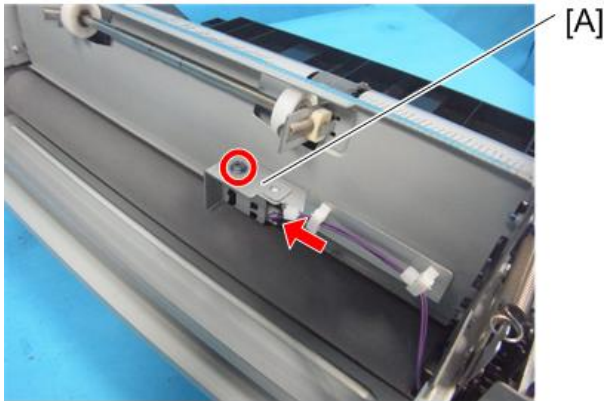


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Center-Folding Tray Paper Eject Sensor

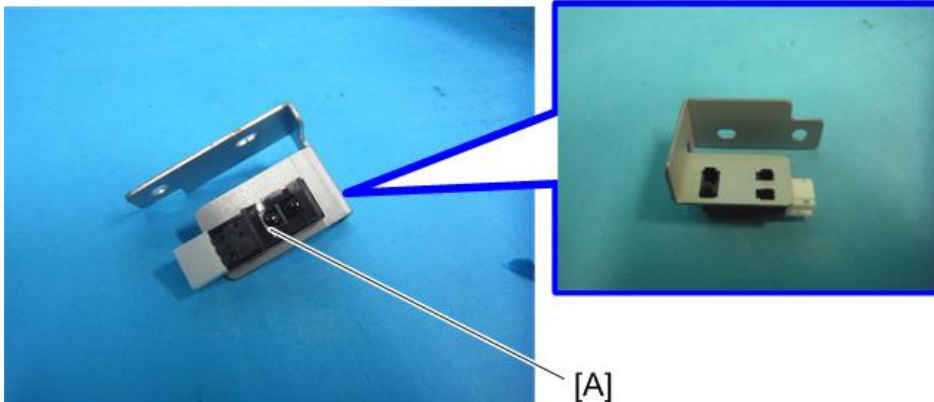
1. Center-folding unit (page 46)

2. Center-folding tray paper eject sensor bracket [A] (⚙️ ×1, 📦 ×1)



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3. Center-folding tray paper eject sensor [A]

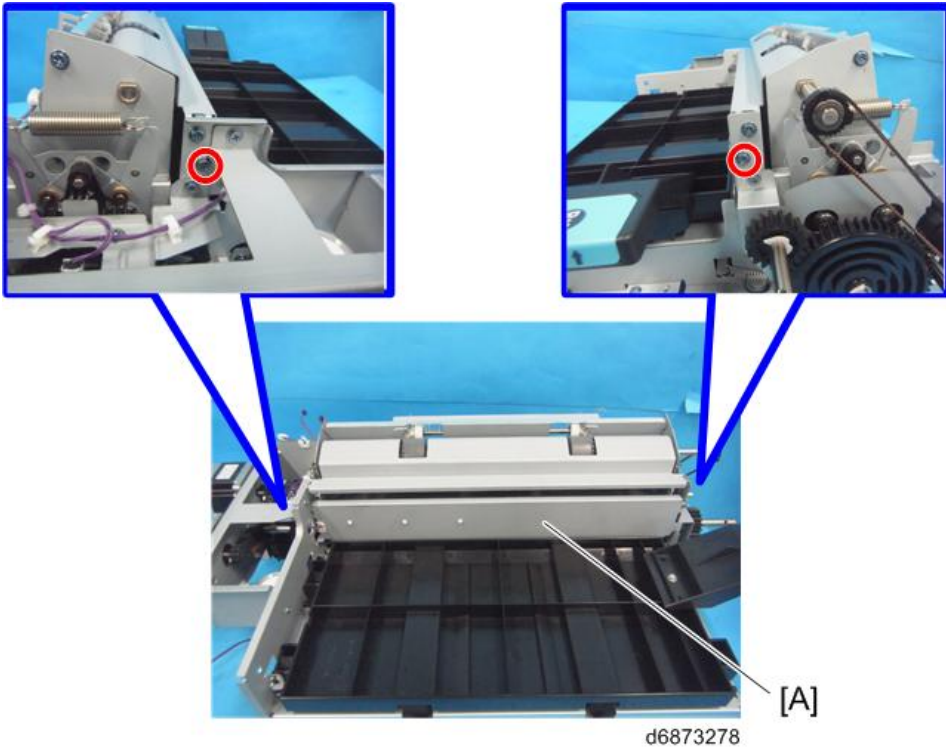


d6873277

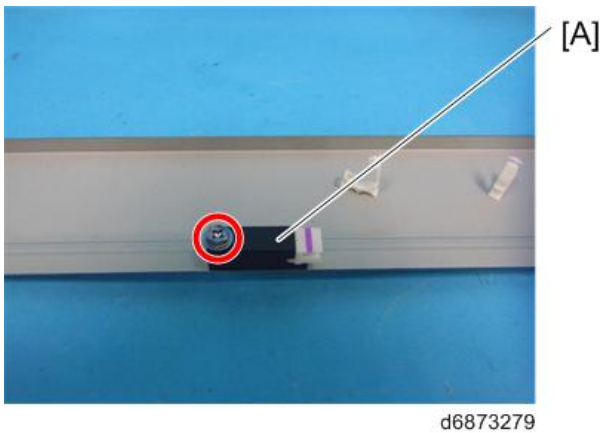
Trailing Edge Stopper Transport Sensor

1. Center-folding unit (page 46)

2. Trailing edge stopper transport sensor bracket [A] (⚙️×2, 📦×1, 🔩×4)



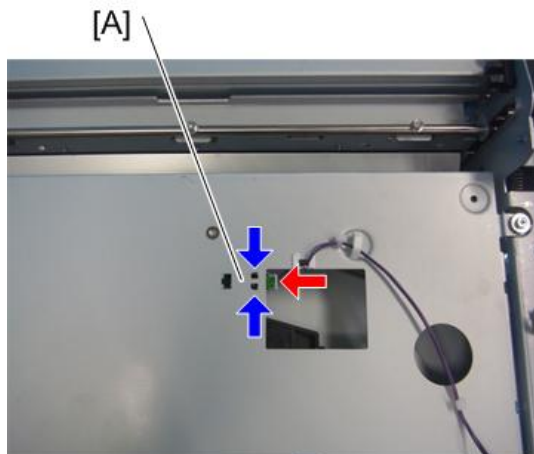
3. Trailing edge stopper paper surface sensor [A] (🔧×1)



Trailing Edge Stopper HP Sensor

1. Center-folding unit (page 46)

2. Trailing edge stopper HP sensor [A] (📦 ×1)

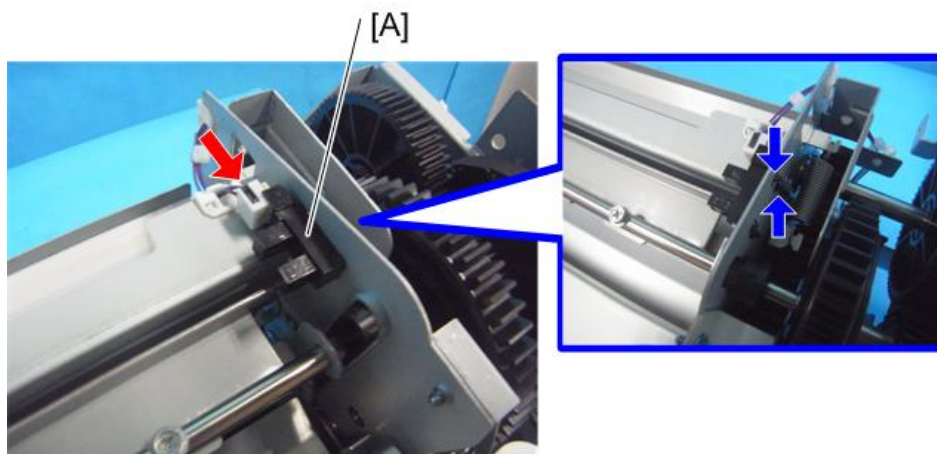


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1

Center-Folding Blade HP Sensor

1. Center-folding unit (page 46)
2. Center-folding blade HP sensor [A] (📦 ×1)

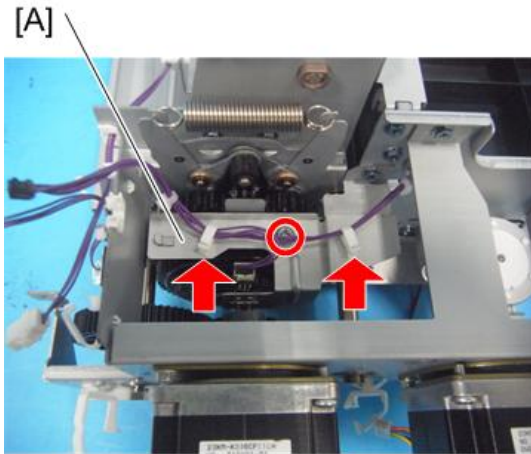


d6873281

Center-Folding Cam HP Sensor

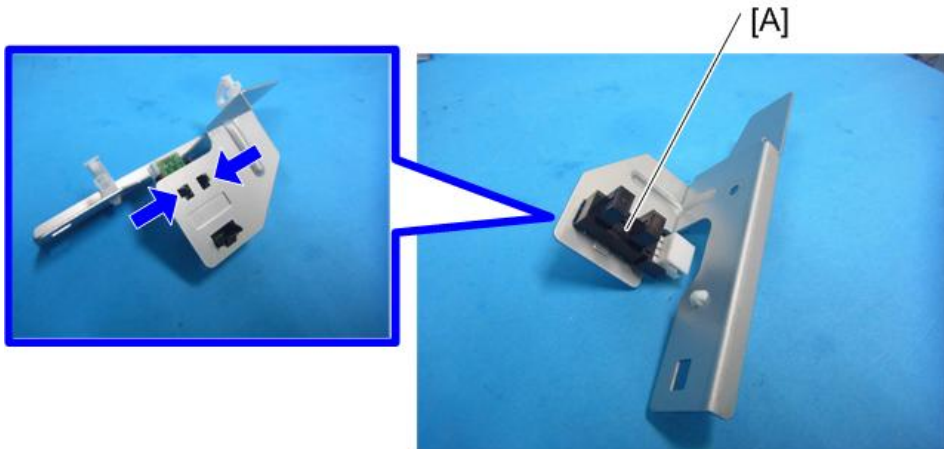
1. Center-folding unit (page 46)

2. Center-folding cam HP sensor bracket [A] (⚙️×1, 🔩×2)



d6873282

3. Center-folding cam HP sensor [A] (📦×1)

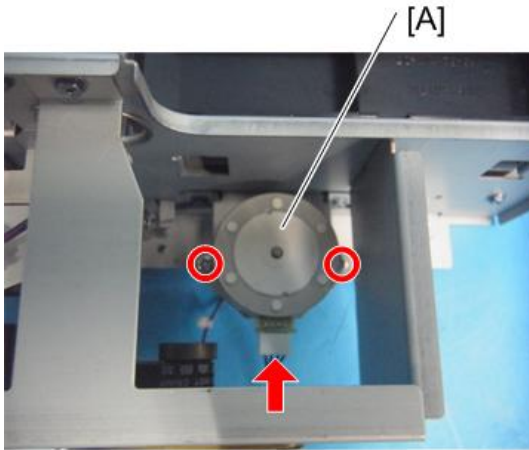


d6873283

Trailing Edge Stopper Motor

1. Center-folding unit (page 46)

2. Trailing edge stopper motor [A] (⚙️ x2, 📦 x1)

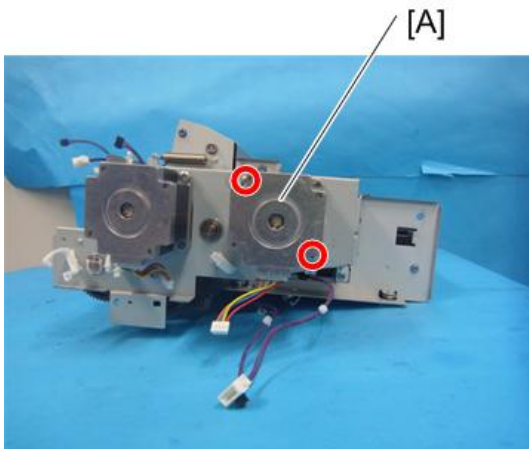


d6873284

1

Folding Blade Motor

1. Center-folding unit (page 46)
2. Folding blade motor [A] (⚙️ x2)

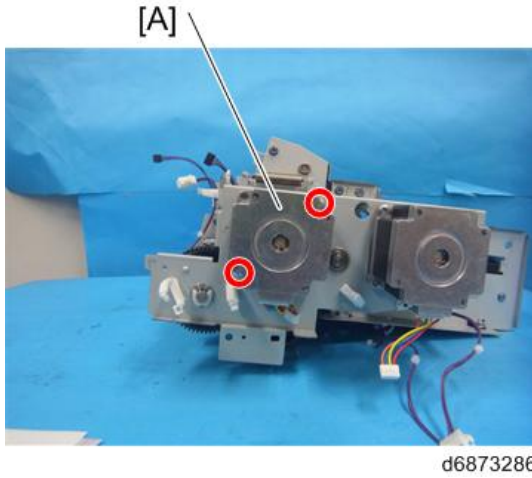


d6873285

Folding Transport Motor

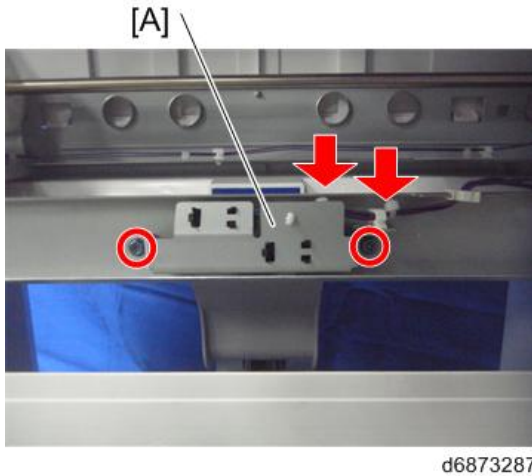
1. Center-folding unit (page 46)

2. Folding transport motor [A] (⚙️ ×2)

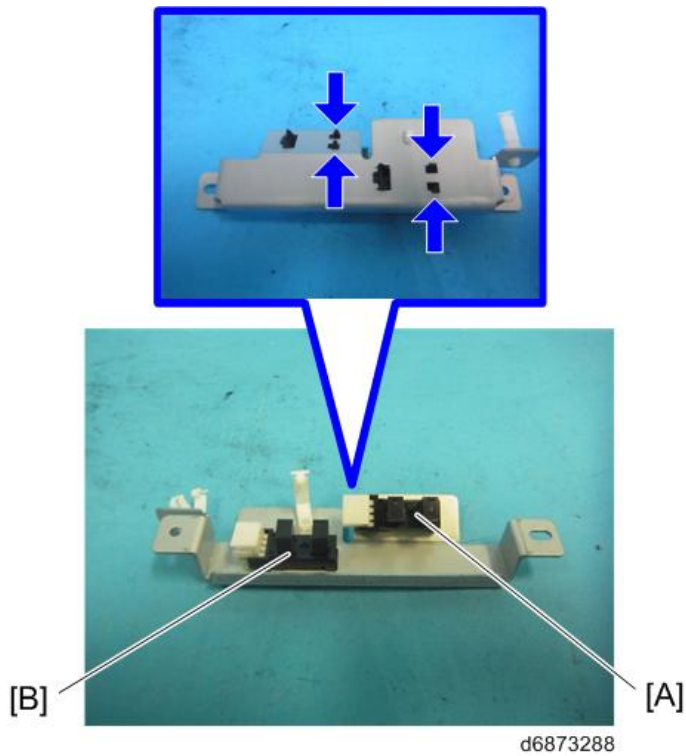


Center-Folding Tray Full Sensors 1, 2

1. Pull out the booklet stitch unit (page 45)
2. Center-folding tray full sensor bracket [A] (⚙️ ×2, 📦 ×2, 🛠️ ×2)

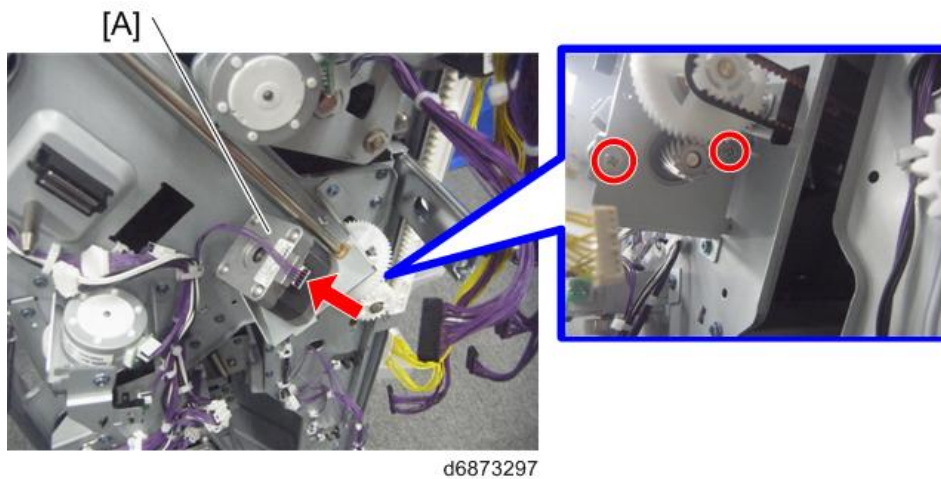


3. Center-folding tray full sensor 1 [A], 2 [B]



Stapler Transfer Motor (Middle)

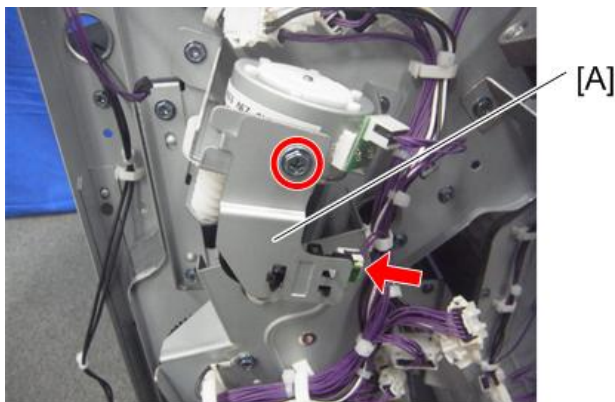
1. Control board bracket (page 26)
2. Stapler transfer motor (Mid.) [A] (⚙️ ×2, 📦 ×1)



Paper Bundle Transport Lower Pressure Release HP Sensor

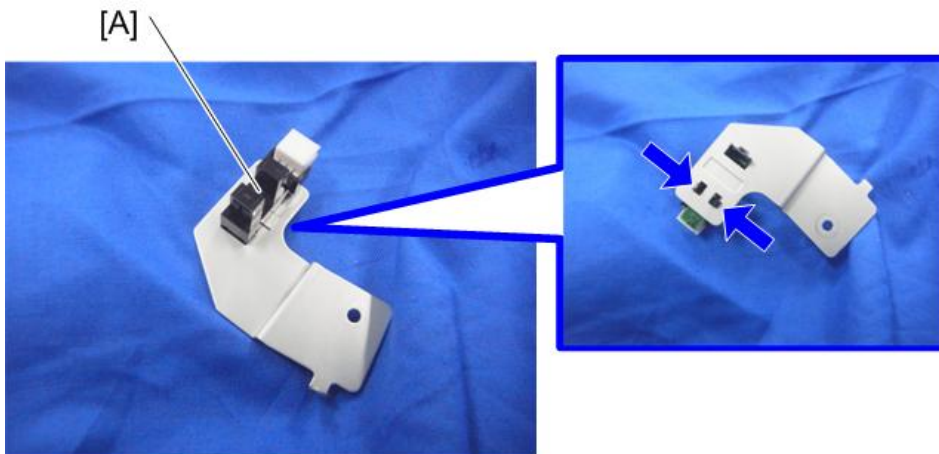
1

1. Control board bracket (page 26)
2. Paper bundle transport lower pressure release HP sensor bracket [A] (⚙️ ×1, 📦 ×1)



d6873300

3. Paper bundle transport lower pressure release HP sensor [A]



d6873301