

**Booklet Finisher SR5060
Finisher SR5050
Machine Code: D734/D735
Field Service Manual
V1.1**

May 2015

Revision History








This is the Revision History for the Booklet Finisher SR5050/SR5060 service manual.

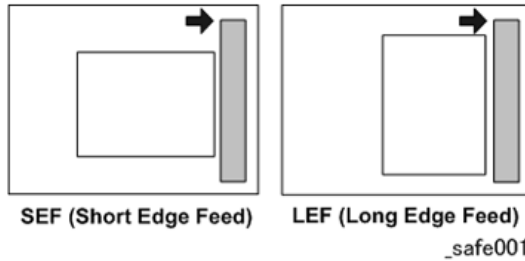
Version	Date	Changes
Ver. 1.1	31 Mar 2015	Text, Illustrations. In procedures the order of the text and illustrations has been reversed. For each step, the text description (action) is followed by the relevant illustration. The callouts [A], [B], [C] in text refer to the illustration below, not above.

Symbols, Abbreviations and Trademarks

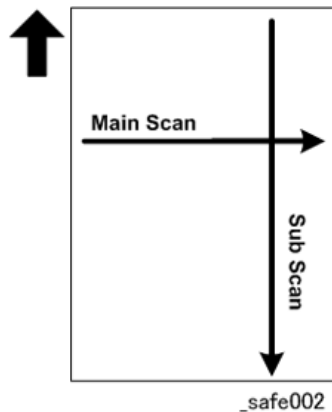
Conventions

Symbol	What it means
	Binding screw (shoulder hexagonal head)
	Binding screw (round flathead)
	Black screw (heavy, fusing unit, TCRU)
	Bushing
	C-ring
	Clip
	Connector
	E-ring
	FFC (Flat Film Connector)
	FFC (Flat Film Connector)
	FFC (Flat Film Connector)
	Gear
	Harness clamp
	Harness clamp: metal: fusing unit
	Hook (or tab release: sensors)
	Knob screw (black)
	Knob screw (sliver)
	Pivot screw
	Screw: most common: silver
	Shoulder screw

Symbol	What it means
	Shoulder screw (black)
	Spring
	Standoff
	Stud screw
	Tapping screw (for plastic)
	Timing belt
	Washer



The notations "SEF" and "LEF" describe the direction of paper feed. The arrows indicate the direction of paper feed.



In this manual "Main Scan" means "Horizontal" and "Sub Scan" means "Vertical", both relative to the direction of paper feed.

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.

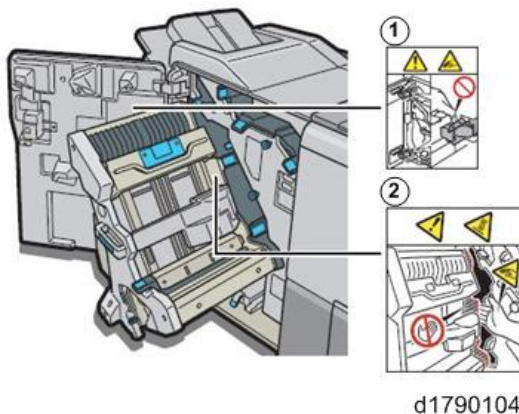
Important

- 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.

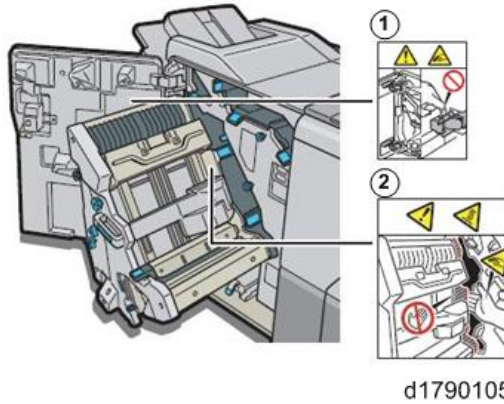
Finisher SR5050



①	To avoid injury, keep your hands clear of the hinges when opening and closing the finisher door.
②	To avoid injury, avoid the indicated parts that become hot during operation and locations where you could pinch your hand or fingers.

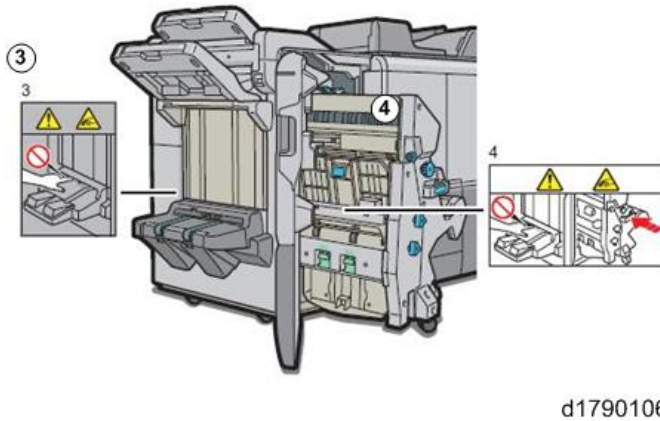
Booklet Finisher SR5060

Front



①	To avoid injury, keep your hands clear of the hinges when opening and closing the finisher door.
②	To avoid injury, avoid the indicated parts that become hot during operation and locations where you could pinch your hand or fingers.

Left Side



③	To avoid injury, never touch the booklet tray during operation.
④	To avoid injury, never touch the booklet tray when removing a paper jam, or when pulling out or pushing in the stacker/stapler unit.

Commonly Used Terms and Abbreviations

Here is a list of commonly used terms and abbreviations that are used throughout the Field Service Manual and Appendices.

Terms	Meaning
(ccw)	Counter-clockwise rotation of a drum, roller, gear, etc.
(cw)	Clockwise rotation of a drum, roller, gear, etc.
BF	Booklet Finisher SR5060 (D734)* ¹
BW	Black and white (monochrome) copying or printing
Bank	Paper Bank (1st, 2nd, 3rd Tray of the main machine)
CIT	Cover Interposer Tray CI5030 (D738)* ¹
CIT-PB	Cover Interposer Tray for Perfect Binder Type S1 (D736-2)* ¹
FIN	Finisher SR5050 (D735) (corner staple only, no booklets)* ¹
ITB	Image Transfer Belt
JG	Junction Gate
LCIT	Large Capacity Input Tray. LCIT RT5080 (D732) or LCIT RT5070 (D733)* ¹
LD	Laser Diode (Laser Unit)
LE	Leading Edge
LSDB	Laser Synchronization Detection Board (Laser Unit)
MFU	Multi Folding Unit FD5020 (D740)* ¹
PCDU	Photoconductor Development Unit
PB	Perfect Binder GB5010 (D736)* ¹
PFU	Paper Feed Unit (Tray 1, Tray 2, Tray 3)
PTB	Paper Transport Belt (between PTR and fusing unit)
PTR	Paper Transfer Roller
RB	Ring Binder RB5020 (D737)
TCRU	Trained Customer Replacement Units
TE	Trailing Edge

Terms	Meaning
TM/P	ID sensor. "ID sensor" is used in this manual. However, you may see "TM/P" in the SP codes on the operation panel.
TPU	Transit Path Unit for Perfect Binder Type S1 (D736)* ¹
TRM	Trimmer Unit 5040 (D520)* ¹
VTU	Vertical Transport Unit
* ¹ Optional peripheral devices.	

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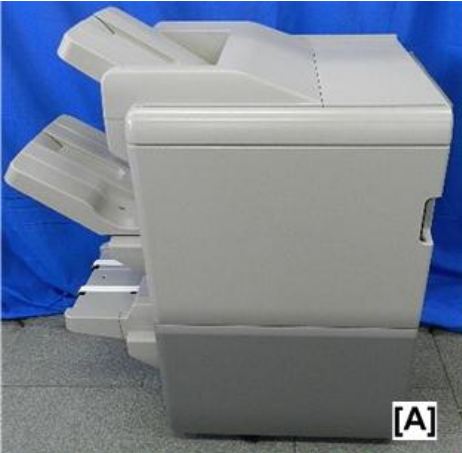
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1. Replacement and Adjustment

Common Procedures

Overview

[A]	Front
[B]	Left
[C]	Rear
[D]	Right



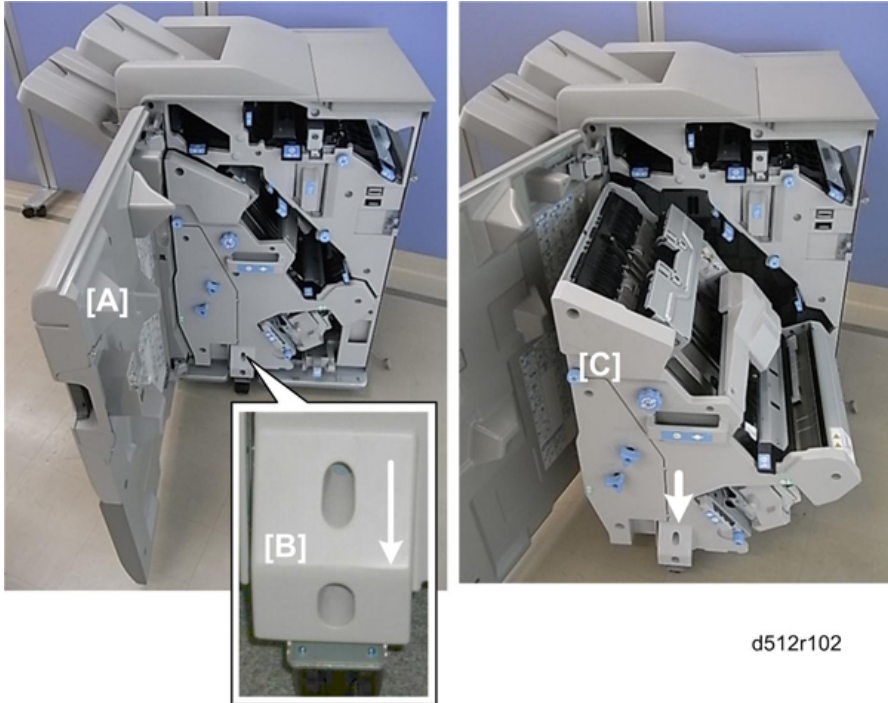
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[A] Open the front door.

[B] Adjustable caster

[C] Pull the stack/stapler unit out (pull handle **Rb12**).

1



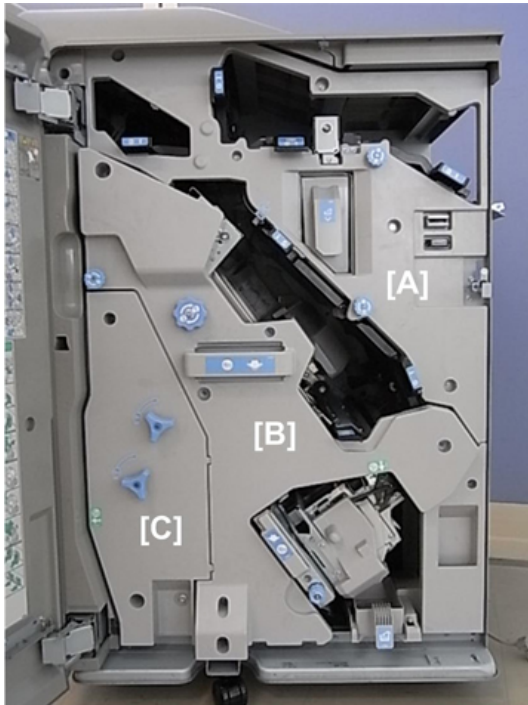
d512r102

- Inner covers:

[A] Upper: **Rb2, Rb8**

[B] Center: **Rb14, Rb16**

[C] Lower **Rb10, Rb11**



d512r103

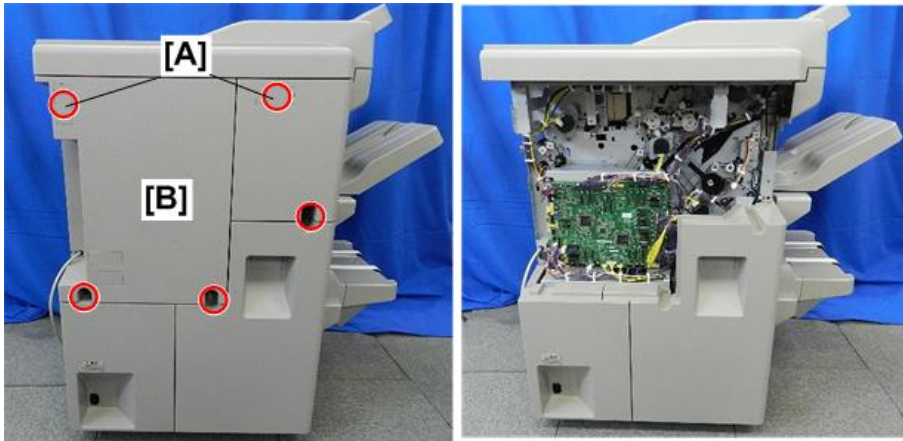
Covers

Rear Upper Cover

1. Screw covers [A] (hooks)
2. Rear upper cover [B] (🔧 x5)

★ Important

- The rear upper cover must be removed before the rear lower cover.



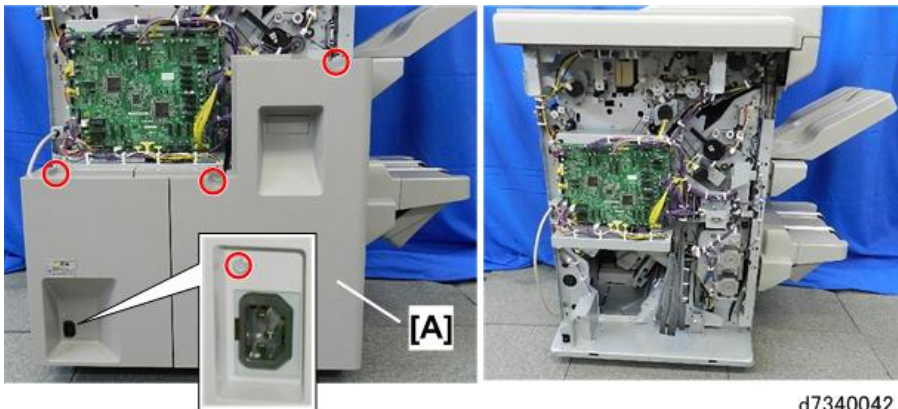
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Rear Lower Cover

Preparation

- Rear upper cover

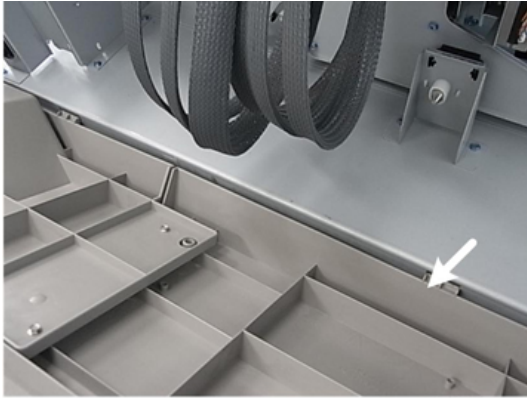
1. Rear lower cover [A] (⌀ x4). The screw near the power connection point is difficult to see.



d7340042

Re-installation

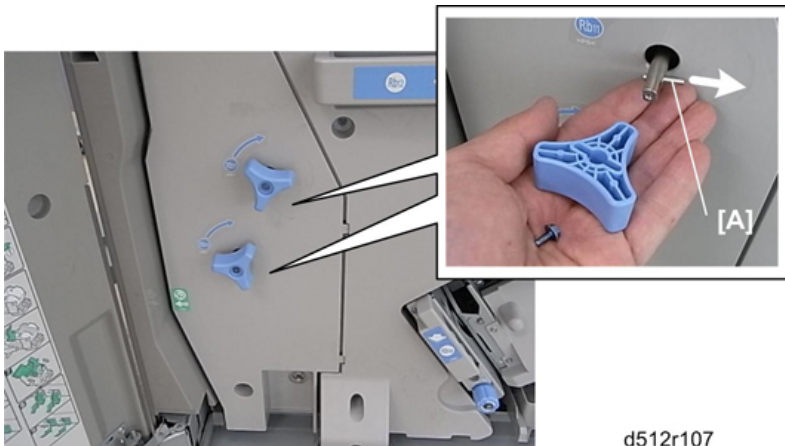
1. Engage both tabs on the bottom of the rear lower cover before fastening the screws.



d512r106

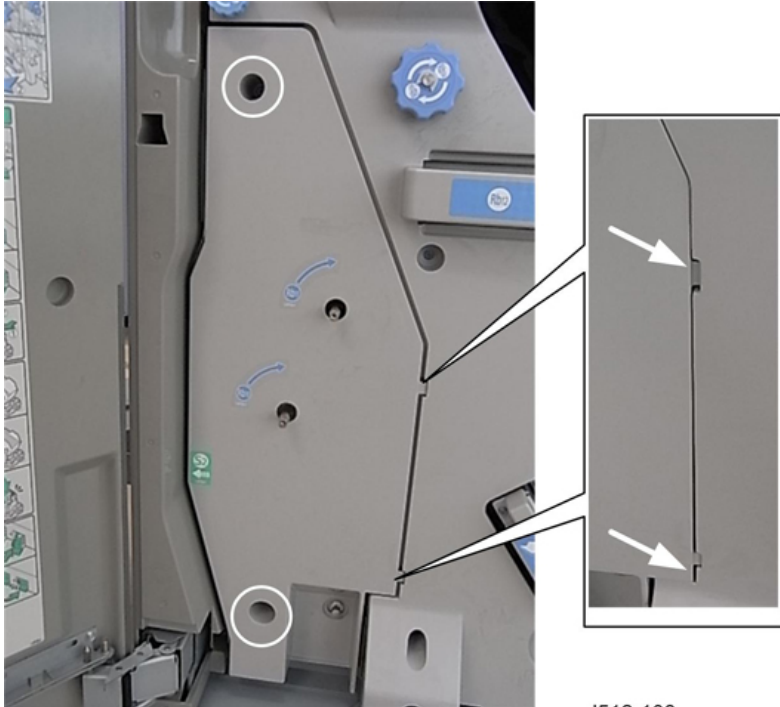
Lower Inner Cover: Rb10, Rb11

1. Remove handles **Rb11**, **Rb12** (🔩 x1 each, Pin x1 each).
2. Make sure that the pins [A] are removed and stored with the screws.



d512r107

3. Remove the cover (🔩 x2, Tabs x2).

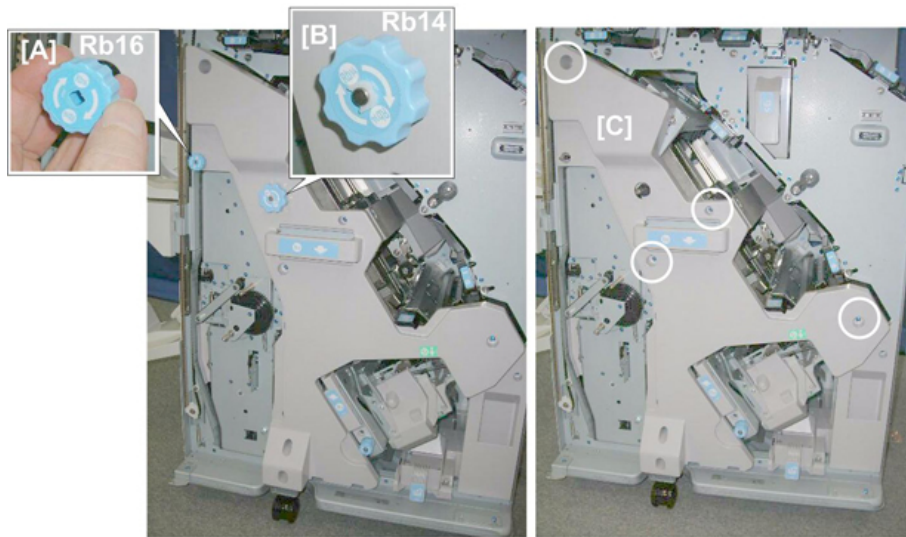


d512r108

Center Inner Cover: Rb14, Rb16

Preparation

- Lower inner cover
1. Remove:
 - [A] Rb16
 - [B] Rb 14 (🔩x1)
 - [C] Cover (🔩 x4)



d434r109

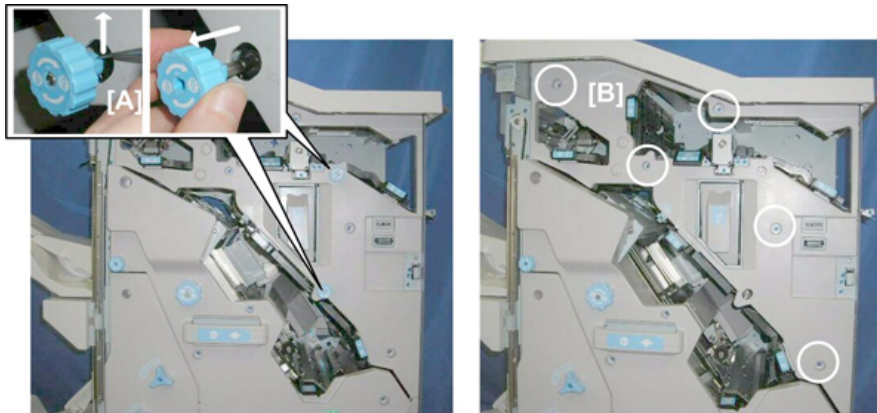
Upper Inner Cover: Rb2, Rb8

1. Remove:

[A] Rb2, Rb8.

If these tab releases are stiff, use the point of a sharp tool to release these knobs, then pull them off. Work carefully to avoid breaking the tab releases.

[B] Cover (🔩 x5)



d434r110

Front Door

1. Open the front door.

2. Remove the clip [A].
3. Lift off the door [B] from its bottom post.



d512r111

Proof Tray

1. Proof tray [A] (🔩 x2)

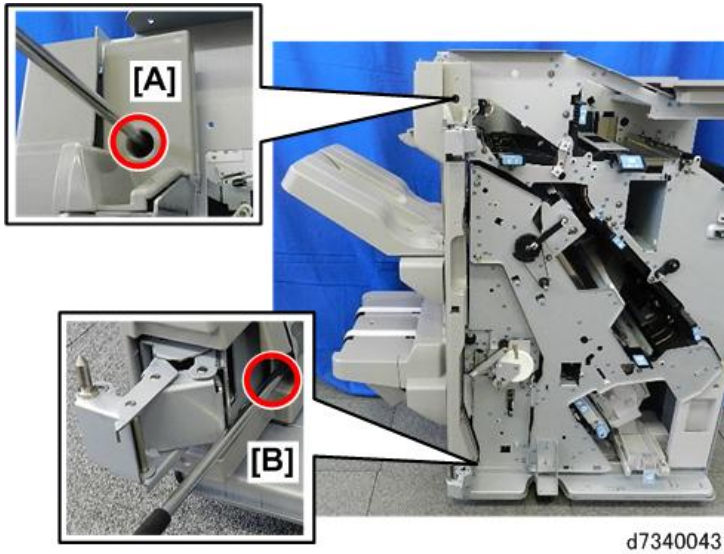


d7340045

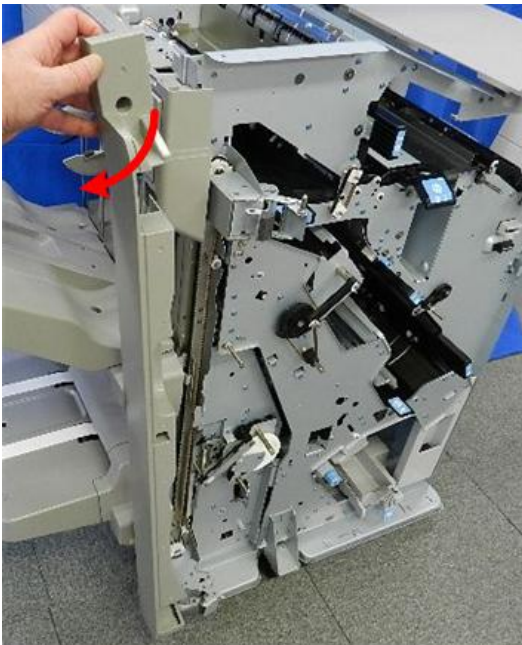
Corner Strip Cover

Preparation

- Front door page 19)
 - Proof tray page 20)
1. Remove the top and bottom screws [A], [B] (🔩 x2).
 2. Disconnect the tabs at the top and bottom.



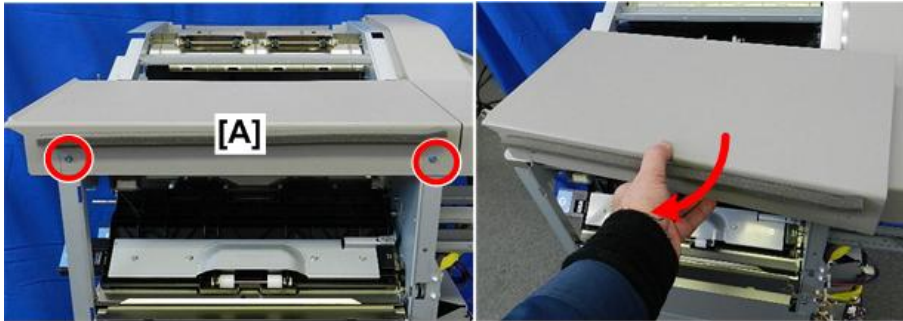
3. Twist the cover away from the corner.



d7340044

Top Right Cover

1. Top right cover [A] (🔧 x2)



d7340047

Top Rear Cover

Preparation

Remove:

- Proof tray (page 20)
- Top right cover (page 21)
- Rear upper cover (page 15)
- 1. Top rear cover [A] (🔩 x2).



d7340046

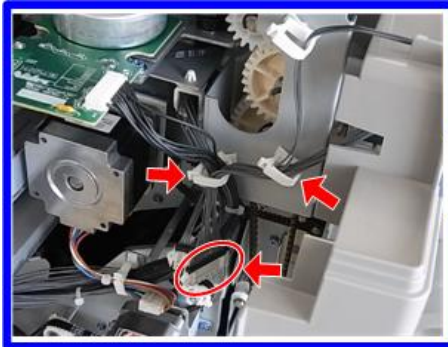
Shift Tray Jogger Unit

1. Top rear cover page 22)
2. Remove:
[A] Jogger unit cover (🔩 x2)

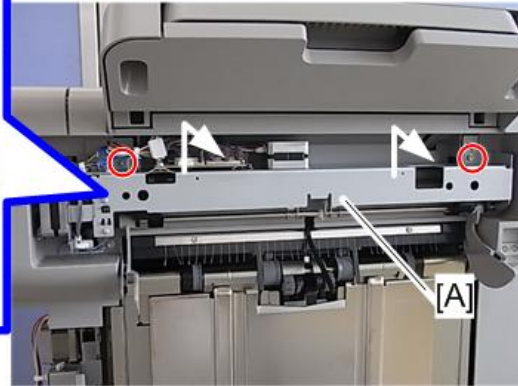


d512r115

3. Lift the jogger unit [A] off (⚙️ x2, 🛠️ x2, 📦 x1).



d512r116



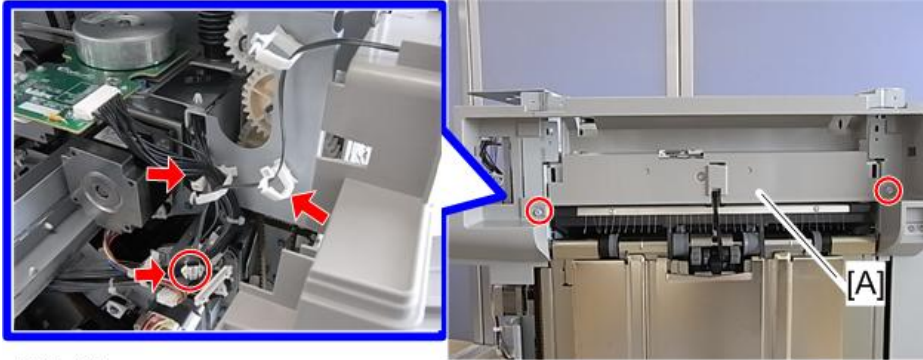
Left Upper Cover

Preparation

Remove:

- Proof tray (page 20)
- Shift tray jogger unit (page 22)

1. Remove the left upper cover [B] (⚙️ x2, 📦 x1, 🛠️ x2).

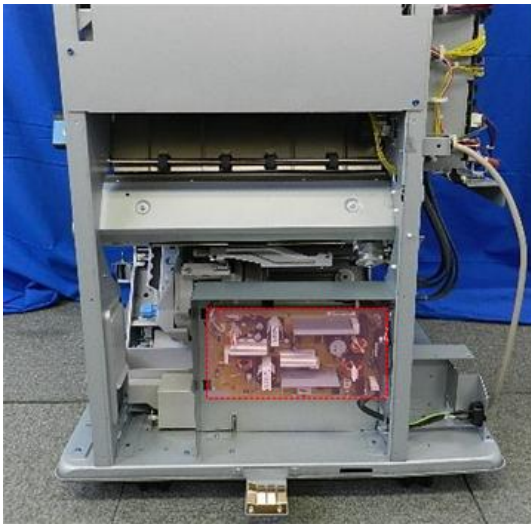


d512r117

Upper, Lower Right Panels

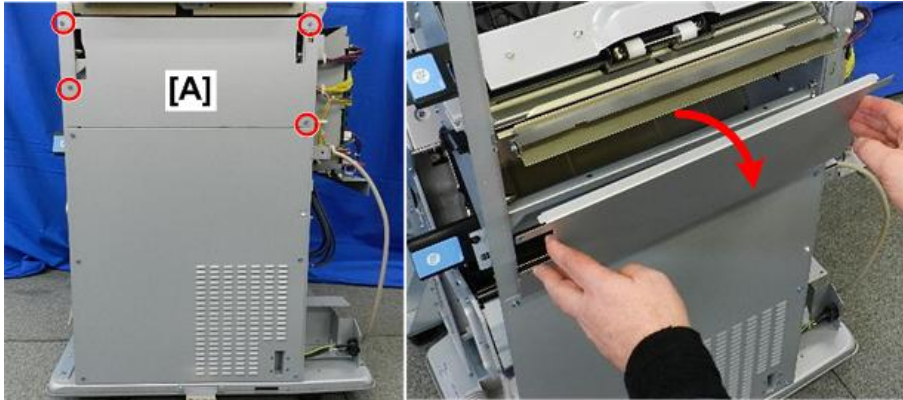
⚠ CAUTION

- The lower right panel covers the PSU, which retains residual voltage after the system is switched off.
- Before removing the right panel for any procedure, switch the machine off and wait 30 min. for the charge on the PSU to dissipate.




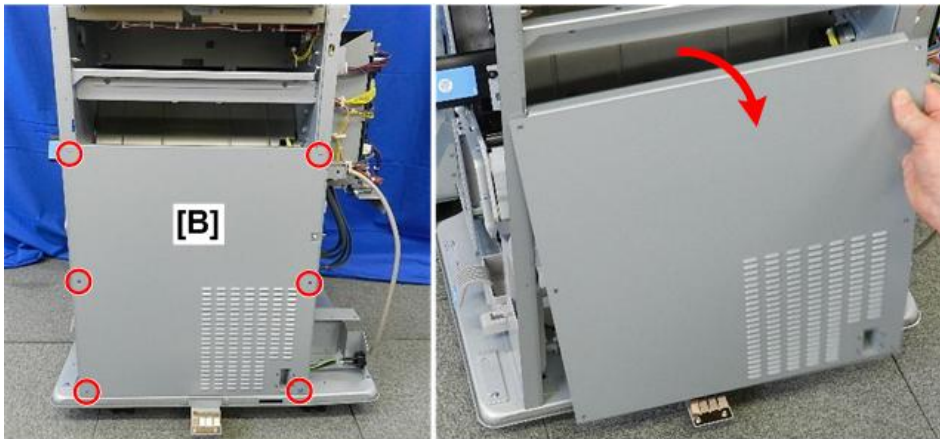
d7340050

1. Remove upper right panel [A] ( x4).




d7340048

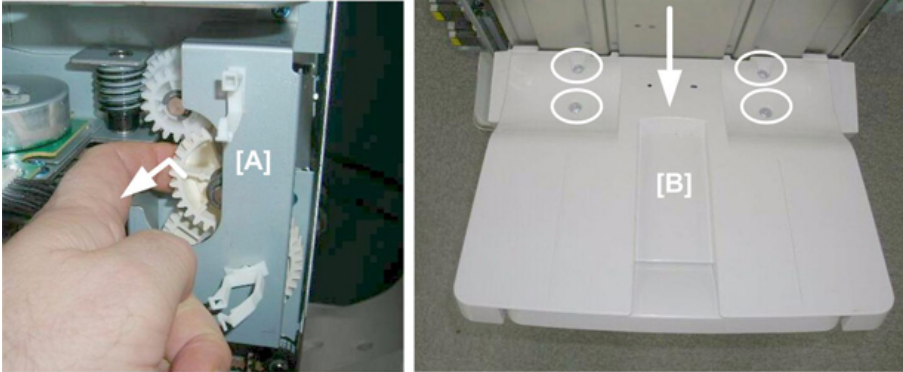
2. Remove lower right panel [B] ( x6).



d7340049

Shift Tray

1. While supporting the tray with one hand, pull gear [A] toward you to release the tray.
2. Lower the tray [B] slowly until it stops, then remove it. ( x4)



d434r122

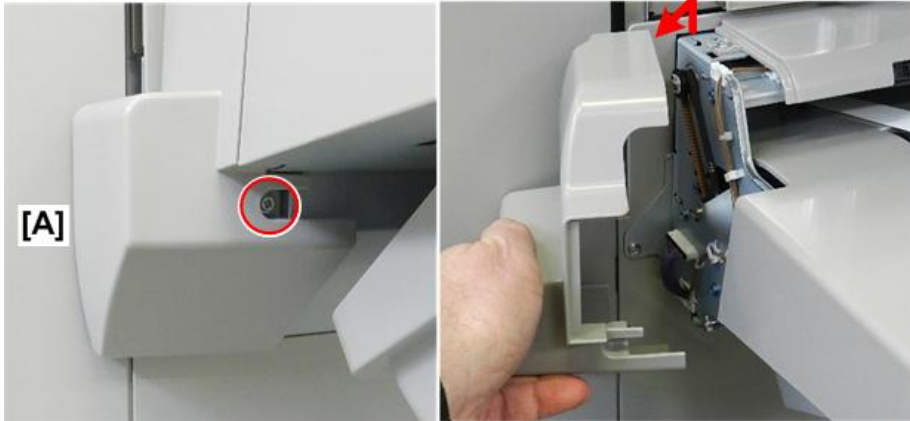
Booklet Tray

1. The booklet tray is the lower tray.



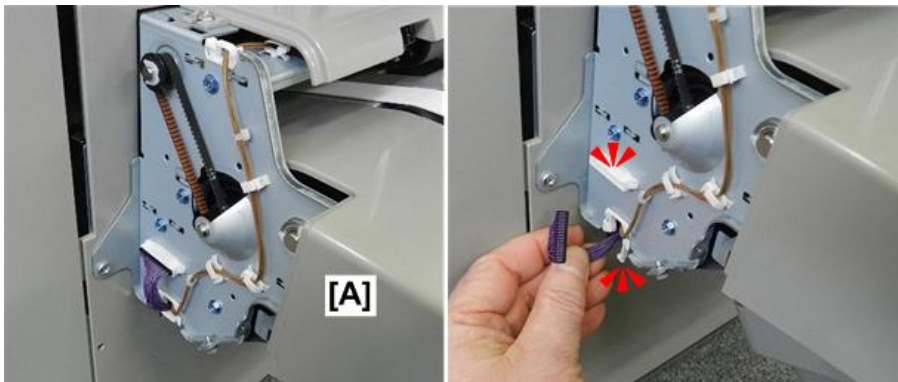
d7340051

2. At the rear [A] remove rear cover (🔩 x1).



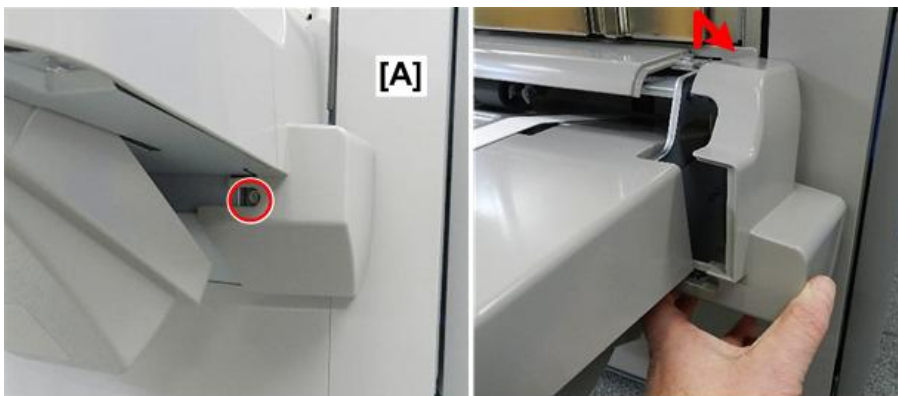
d7340052

3. At rear [A] disconnect tray (⚙️ x1, ⚙️ x1).



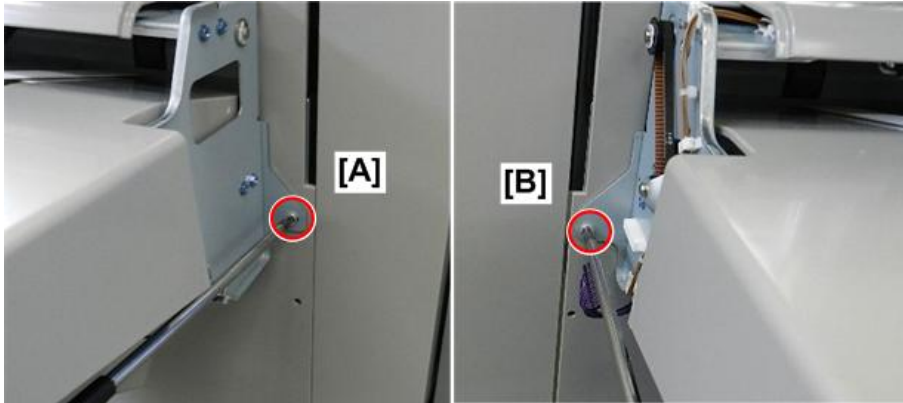
d7340053

4. At front [A] remove front cover (⚙️ x1).



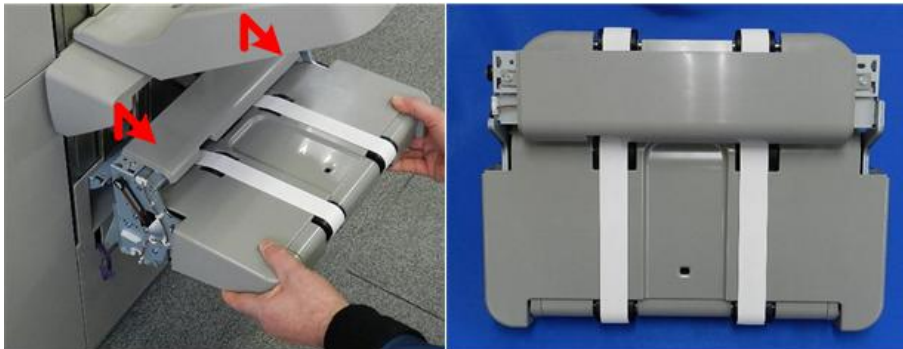
d7340054

5. Disconnect tray bracket at front [A], rear [B] (⚙️ x2).



d7340055

6. Lift tray off the side of the machine.



d7340056

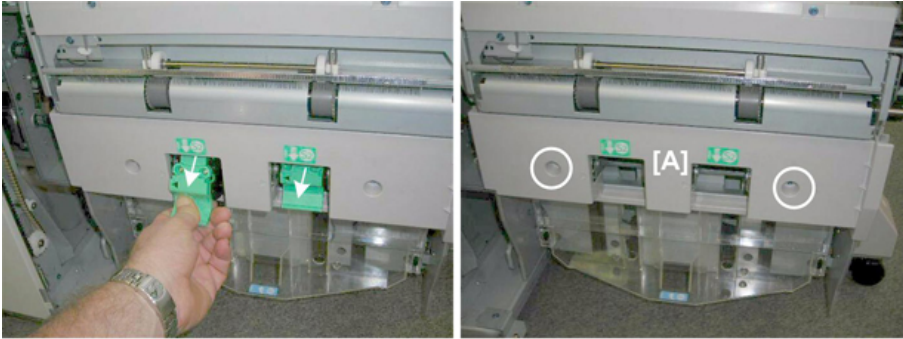
Booklet Unit

Booklet Stapler

The booklet stapler weighs about 3 kg (6.6 lb.)

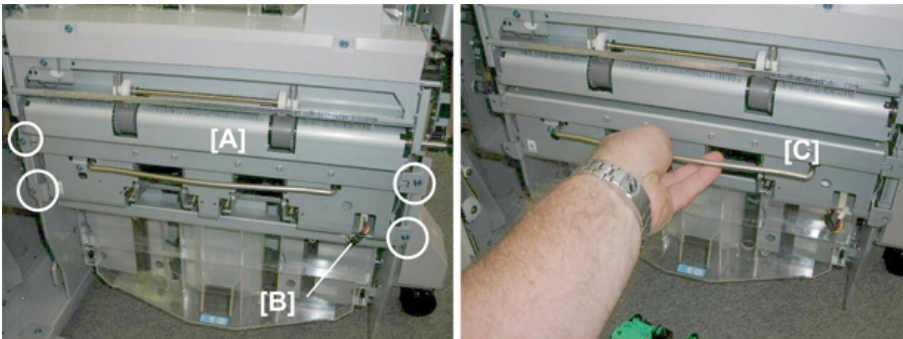
Preparation

- Open the front door.
 - Pull stack/stapler unit out with **Rb12**.
1. Remove both booklet staplers.
 2. Remove booklet stapler unit cover [A] (🔩 x2)



d434r124

3. Remove stapler unit [A] (🔧 x1, 🌀 x4)
4. Make sure connector [B] is disconnected.
5. Remove the stapler unit with its handle [C].



d434r125

6. Lay the unit on a flat, clean surface.



d434r126

Booklet Unit Removal

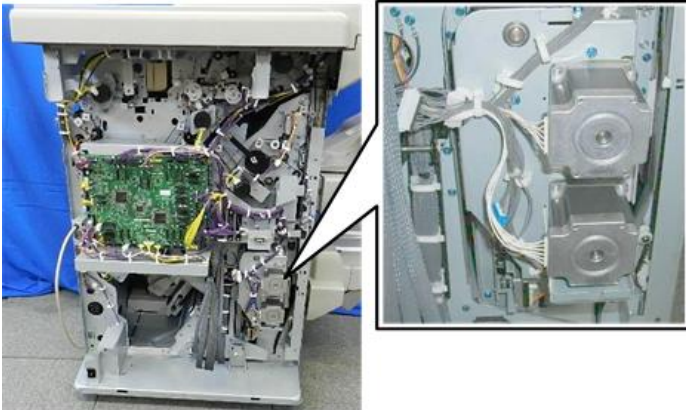
Preparation

- Open the front door.
- Front door (page 19)
- Corner strip cover (page 20)
- Lower inner cover **Rb10, Rb11** (page 17)
- Booklet stapler (recommended) (page 28)

Note

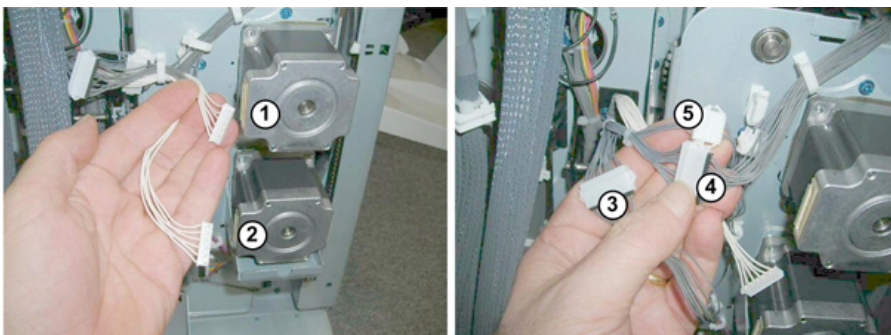
- The booklet unit weighs about 18 kg (40 lb.) with the booklet stapler installed.
- The booklet stapler weighs about 3 kg (6.6 lb.)
- The booklet unit is lighter and easier to remove and re-install with the booklet stapler removed.

1. Make sure that the stack/staple unit is closed.
2. Locate the two motors attached to the rear of the stack/staple unit.



d7340057

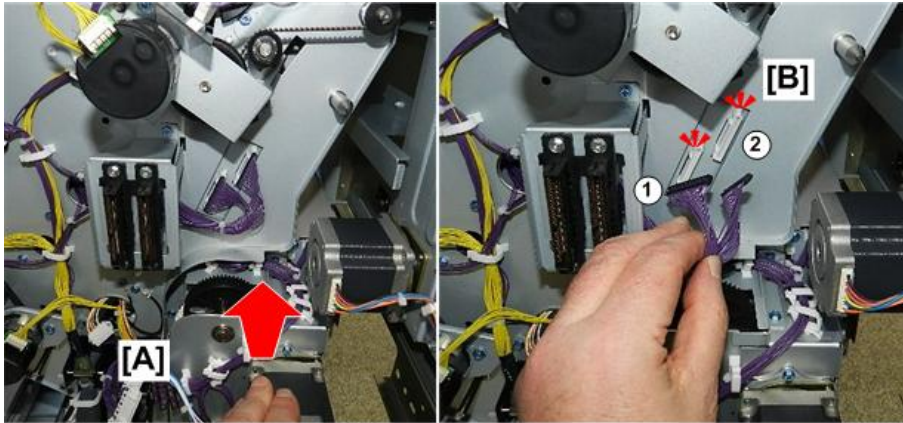
3. Disconnect the two motors ①, ② (📦 x2).
4. Disconnect the connectors of the other harnesses attached to the rear of the stack/staple unit at ③, ④, ⑤ (📦 x2, 📦 x3).



d434r128

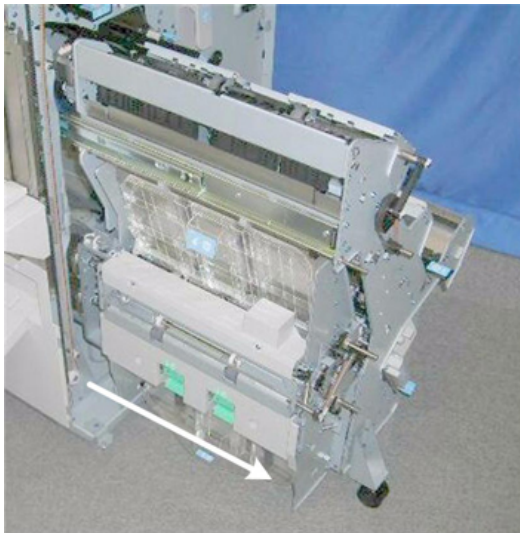
5. Push the stack/staple unit [A] out about halfway, until you can see the two black connectors.

6. Disconnect the connectors [B] (🔌 x2).



d7340058

7. Pull the stack/staple unit out until it stops.

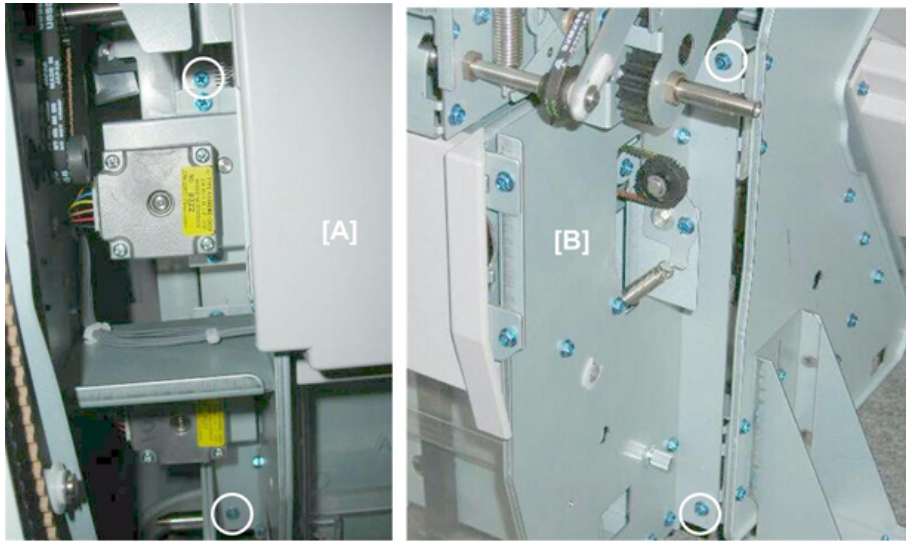


d434r130

8. Remove:

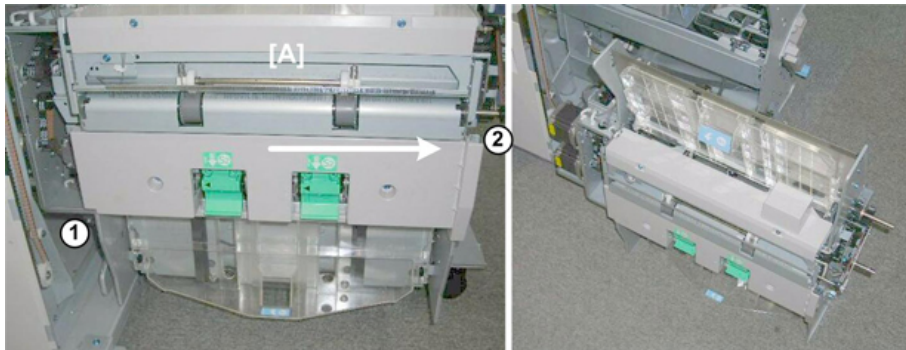
[A] Rear (🔌 x2)

[B] Front (🔌 x2)



d434r131

9. Grip the unit [A] at ① and ②, slide it to the right, and set it down on the floor.

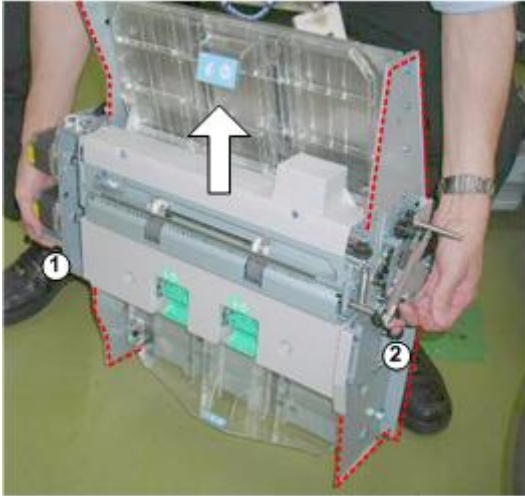


d434r132

Handling and Moving the Booklet Unit

CAUTION

- The metal edges of the booklet unit are sharp and can easily cut your hands or fingers. Always handle the unit carefully.
1. Always lift the booklet unit with your hands positioned at ① and ②.
 2. Never attempt to lift the booklet unit by the edges (shown above by the red dotted lines).



d434r901

End Fence

Preparation

- Booklet tray (page 26)
- Shift tray jogger unit. (page 22)
- Pull stack/stapler unit out with handle **Rb12**.

Exit Roller Cover

1. This is the exit roller cover [A].

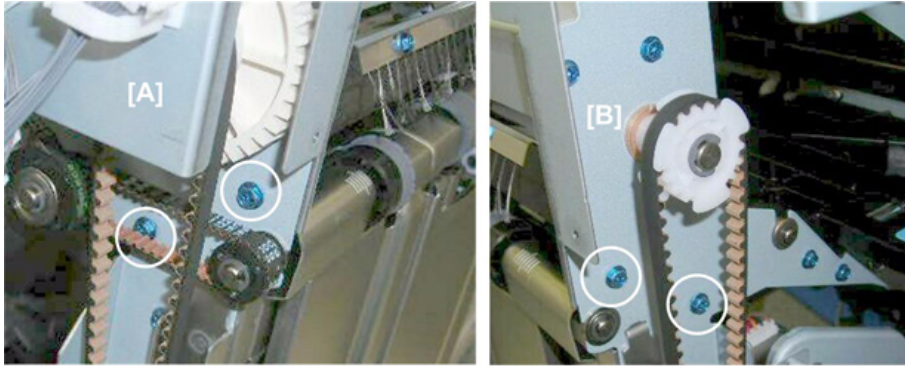


d434r133

2. Remove:

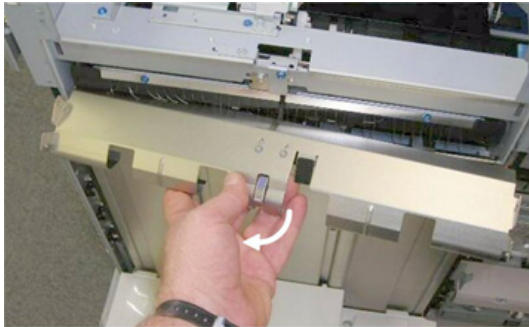
[A] Rear (🔩 x2)

[B] Front (🔩 x2)



d434r134

3. Remove the cover.



d434r135

Shift Tray

1. Support the shift tray with your hand.
2. At the left rear corner, pull the gear [A] toward to release the tray, then lower the tray.
3. Remove the screws [B] (🔩 x3)



d434r137

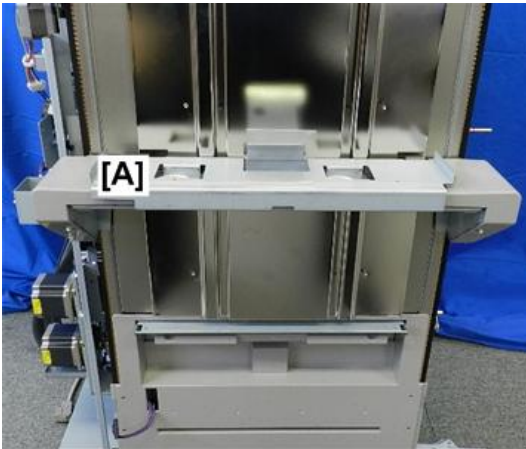
4. Support the tray [A] with your hand to prevent it from falling, then remove the last screw. (🔩 x1)



d434r138

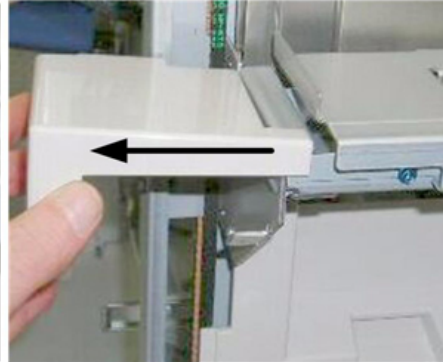
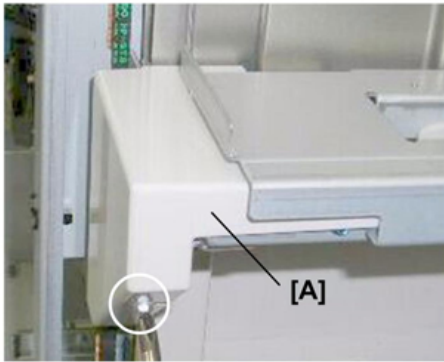
Shift Tray Base

1. This is the shift tray base [A].



d7340059

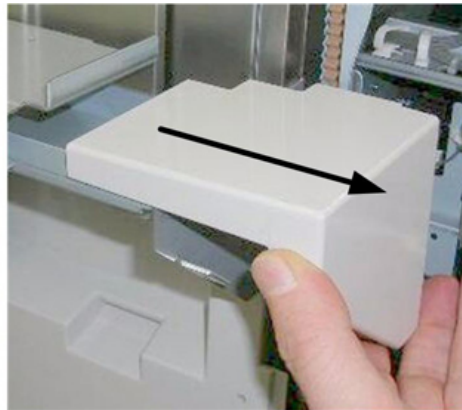
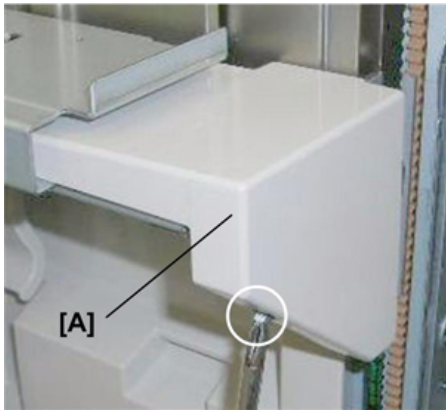
2. Rear cover [A] (🔩 x1).
3. Slide the cover off. You do not need to remove the screw.



d434r140

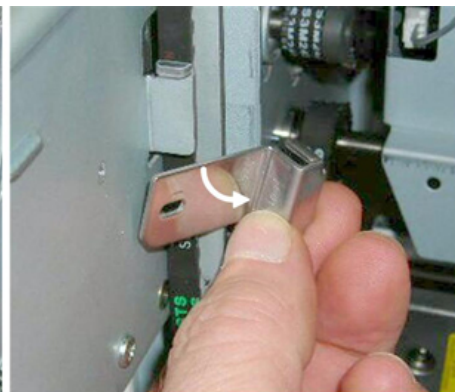
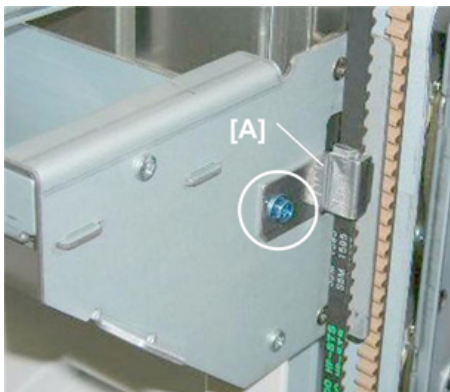
4. Front cover [A] (🔩 x1)

5. Slide the cover off. You do not need to remove the screw.



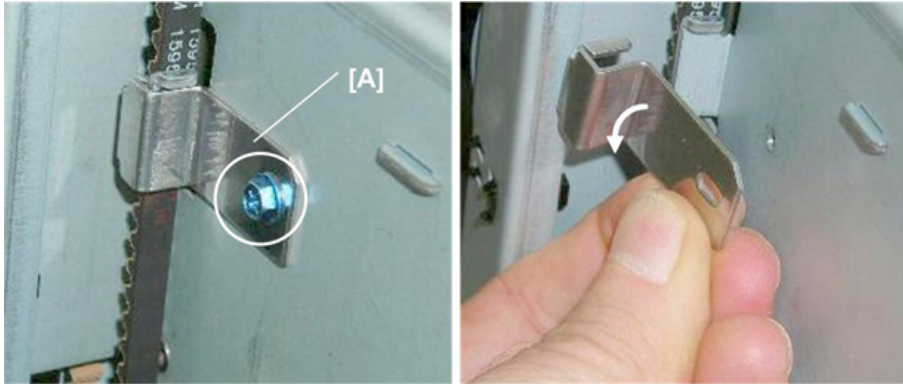
d434r141

6. Front belt clamp [A] (🔩 x1)



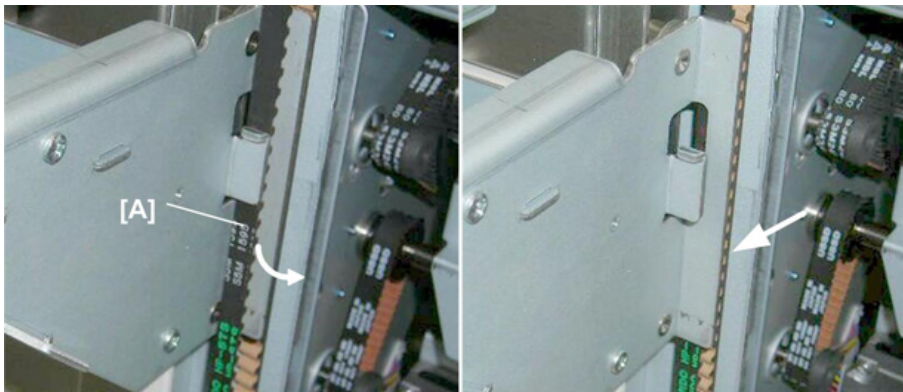
d434r142

7. Rear belt clamp [A] (🔩 x1)



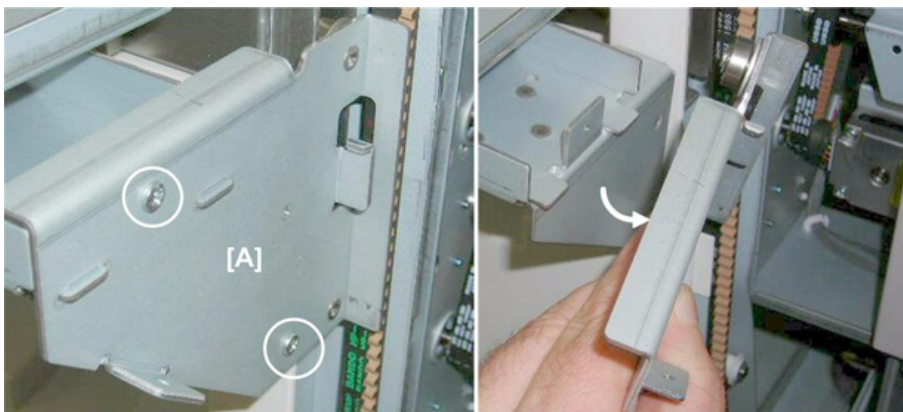
d434r143

8. At the front, pull the belt [A] out and set it behind the plate.



d434r144

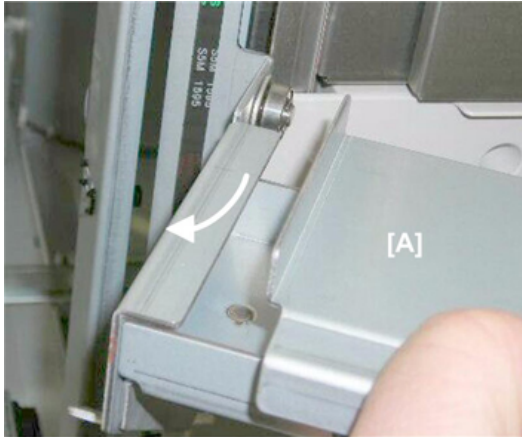
9. Front base plate [A] (Ⓢ x2)



d434r145

10. Disconnect the rear end of the base [A] from the side fence (you do not need to remove the plate).

1



d434r146

Left Lower Cover

1. Disconnect metal bracket (🔧 x2).



d7340060

2. Remove bracket.



d7340061

3. Remove left, lower cover.



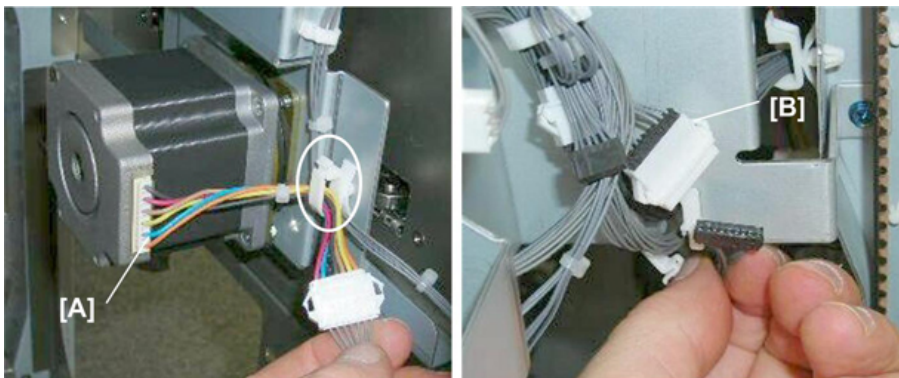
d7340062

End Fence

1. Disconnect:

[A] Motor (🔌 x 1, 📦 x1)

[B] Half-turn sensor (🔌 x 1, 📦 x1)



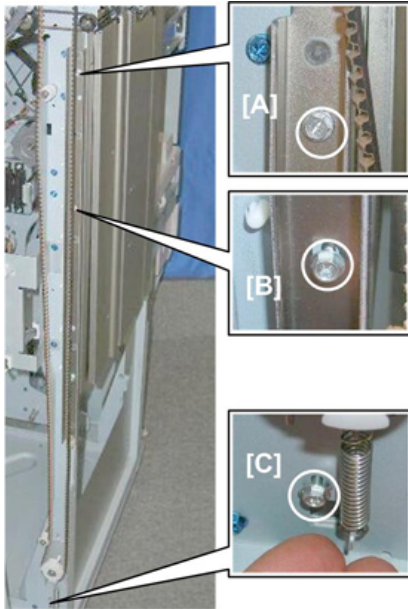
d434r149

2. Rear:

[A] Top (🔩 x1)

[B] Center (🔩 x1)

[C] Bottom (🔩 x1)



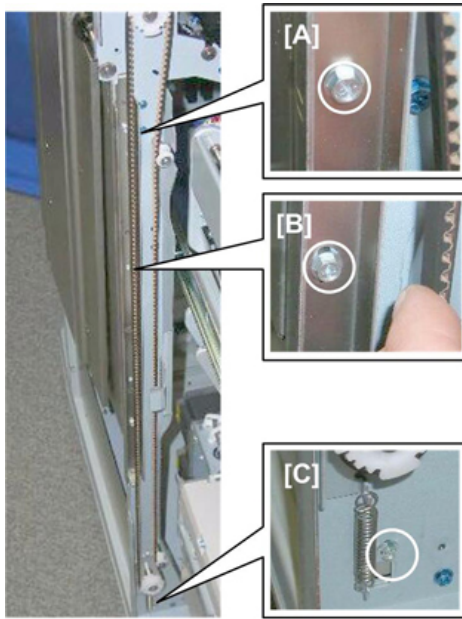
d434r150

3. Front:

[A] Top (🔩 x1)

[B] Center (🔩 x1)

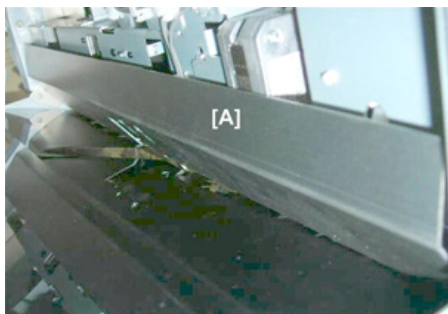
[C] Bottom (🔩 x1)



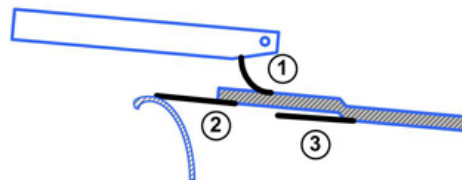
d434r151

Re-installation

- When you re-attach the exit roller cover [A]:
 - Make sure the small mylar ① is set as shown.
 - Make sure the large mylars ② and ⑧ are set as shown.



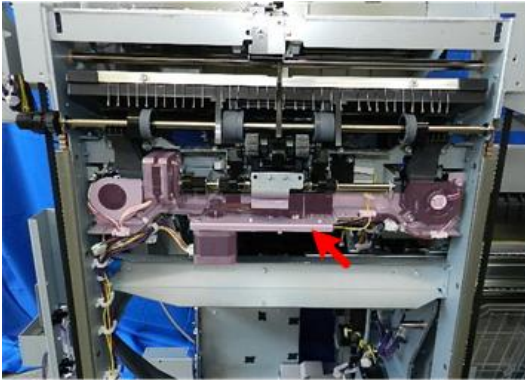
d512r152



Drag Roller Unit

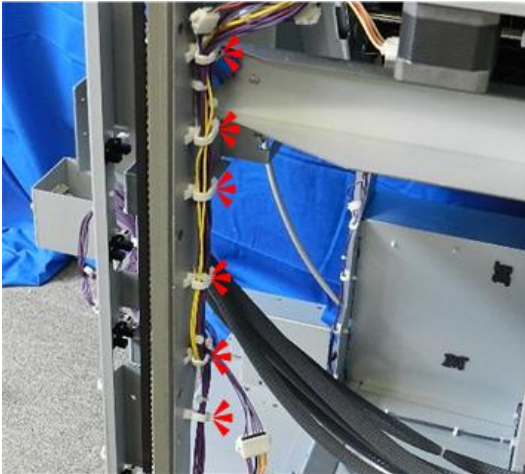
Preparation

- End fence page 33
- This is the drag roller unit [A].



d7340063

2. Harness connectors (🔌 x6)



d7340064

3. Connectors (🔌 x2, 📦 x4)



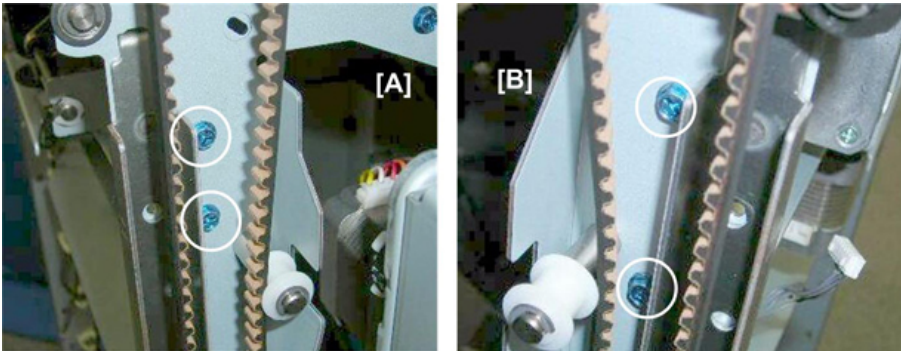
d7340065

4. Free harnesses [A] (🔧 x2).
5. Disconnect small harness [B] (🔧 x1)



d7340066

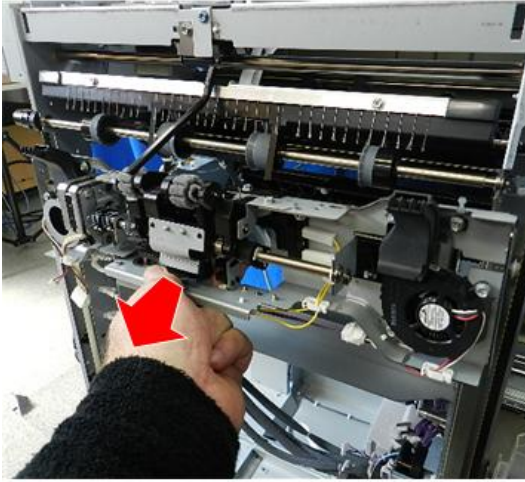
6. Remove:
[A] Front (🔧 x2)
[B] Rear (🔧 x2)



d434r157

7. Remove the drag roller unit.

1



d7340067

Horizontal Paper Feed

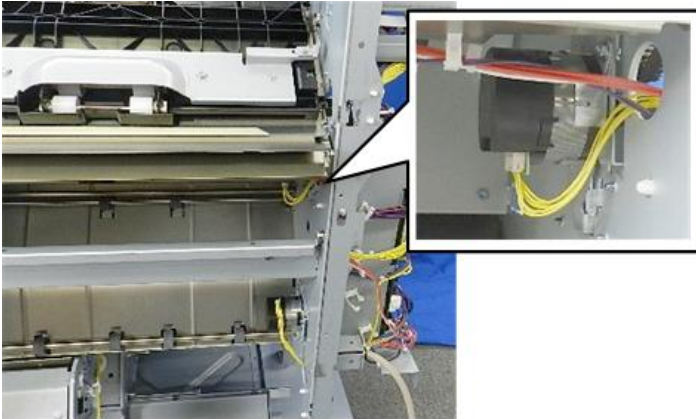
Entrance

1

Entrance Roller Motor{

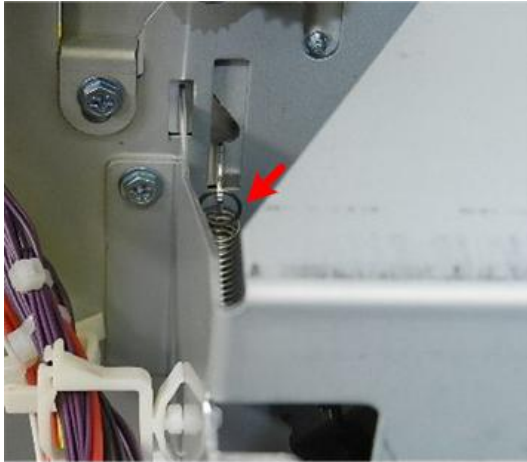
Preparation

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
 - Right panels (page 24)
1. The entrance roller motor is under the paper entrance guide.



d7340068

2. A tension spring is attached to the motor bracket behind the main control board. The main control board mounting bracket must be removed in order to remove and re-attach this spring.



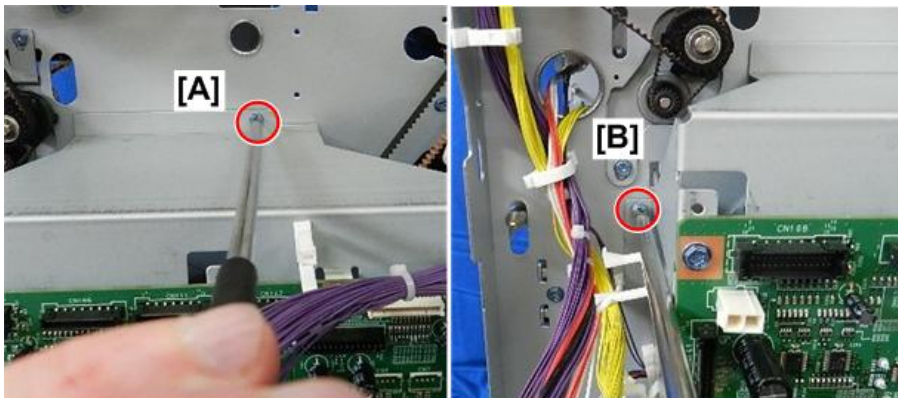
d7340069

3. Disconnect the main board (🔧x17, 📦x44).



d7340070

4. Disconnect the board bracket at the top [A] and upper left corner [B] (🔩x2).



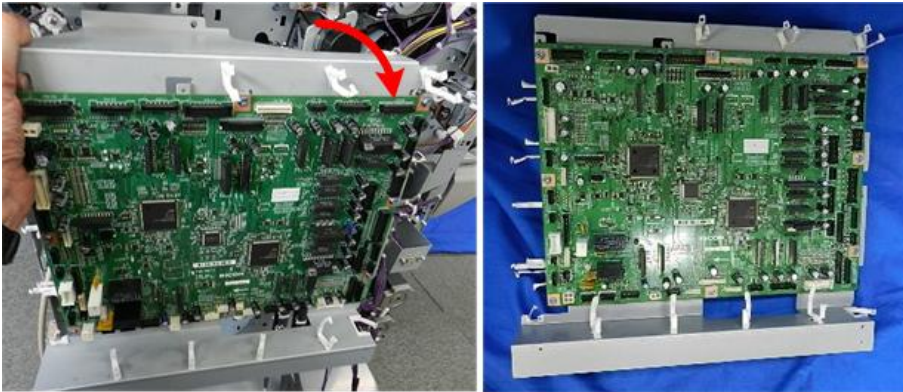
d7340071

5. Disconnect the board bracket at lower left corner [A] and right edge of the board [B] ( x2).




d7340072

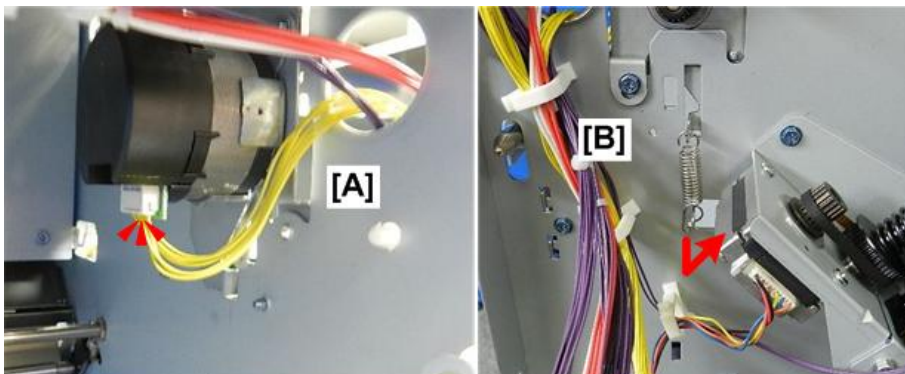
6. Remove the bracket with main board attached.



d7340073

7. On the other side of the frame [A] disconnect the motor ( x1).

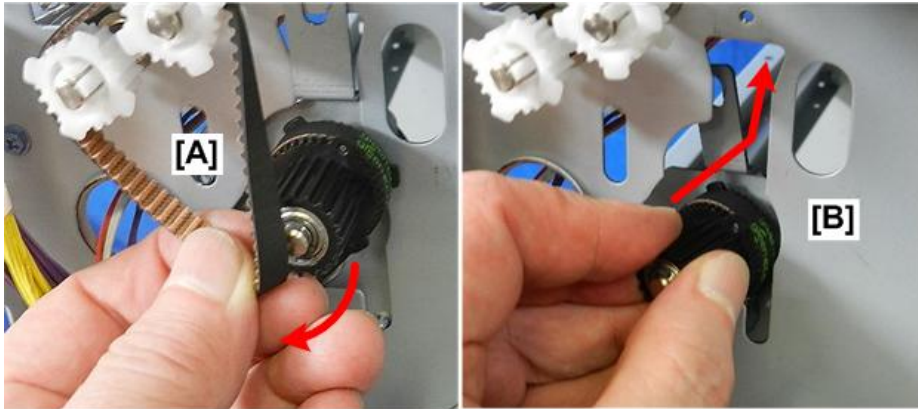
8. On the front of the frame [B] remove spring ( x1).



d7340074

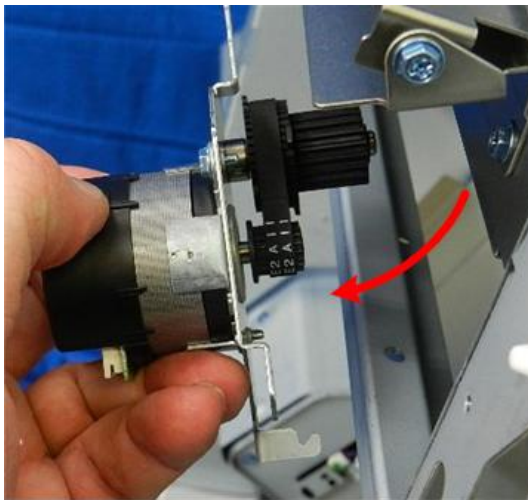
9. Disconnect belt [A] ( x1).

10. Twist and push the bracket through frame [B].




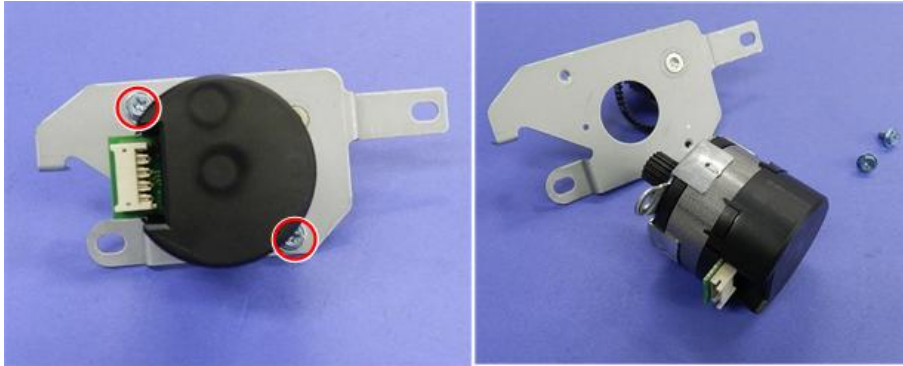
d7340075

11. Remove bracket (with motor attached) from under entrance guide.



d7340076

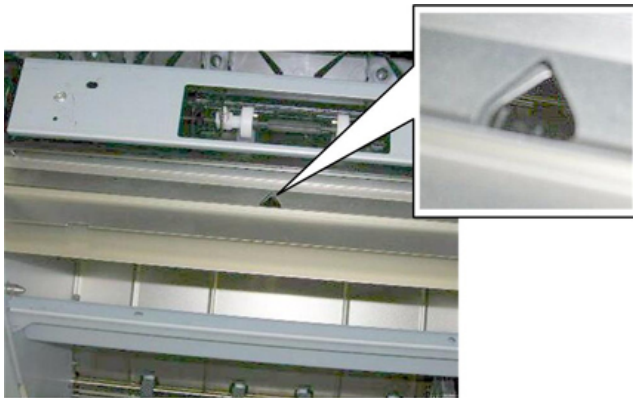
12. Separate motor and bracket ( x2).



d7340077

Entrance Sensor

1. The entrance sensor port is above the paper guide.

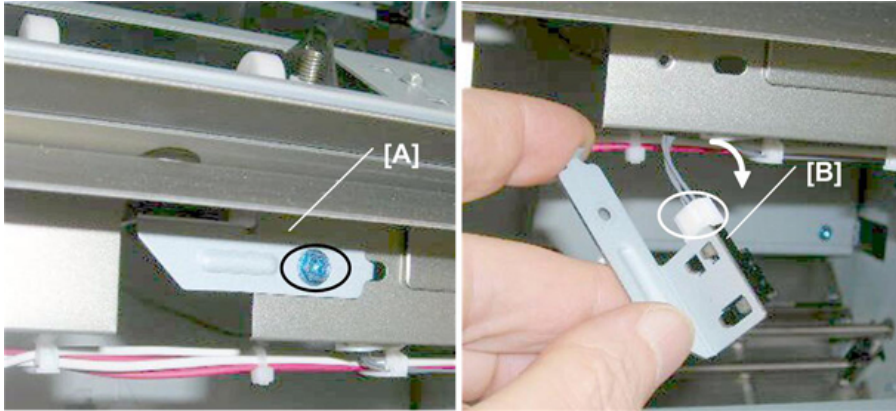


d434r164

2. Remove:

[A] Sensor bracket (🔩 x1)

[B] Sensor (📦 x1, ▼ x5)



d434r165

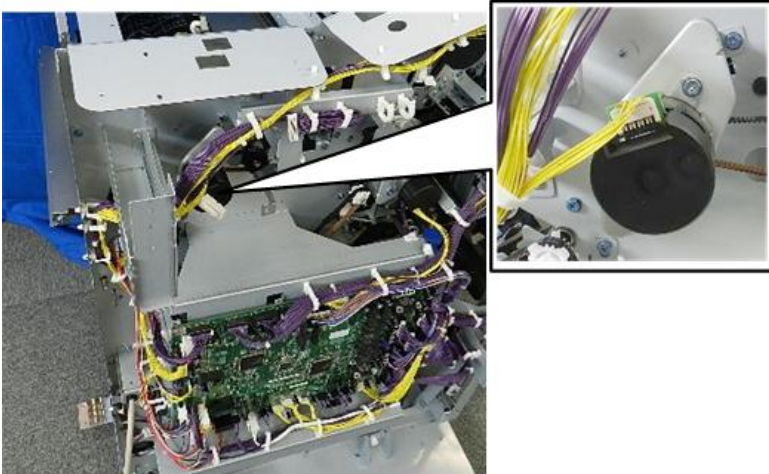
Registration

Registration Motor

Preparation

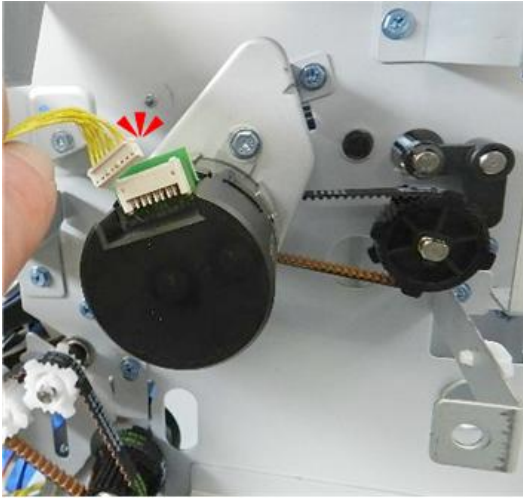
Remove:

- Rear upper cover (page 15)
1. The registration motor above the main board bracket at the rear.



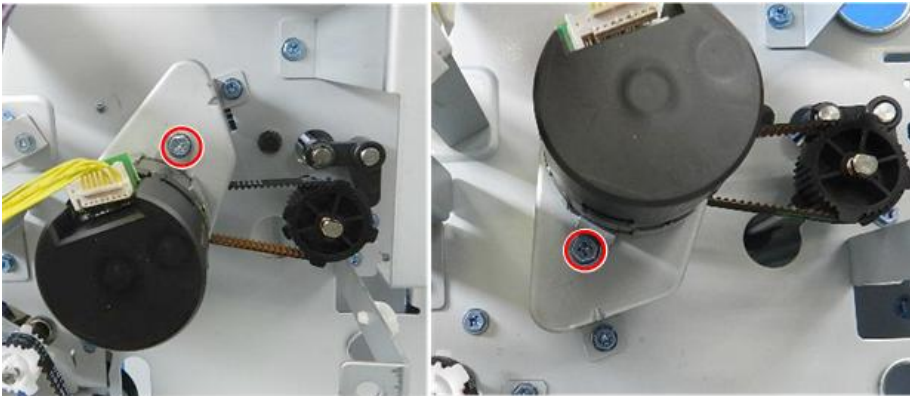
d7340078

2. Disconnect motor (📦 x1).



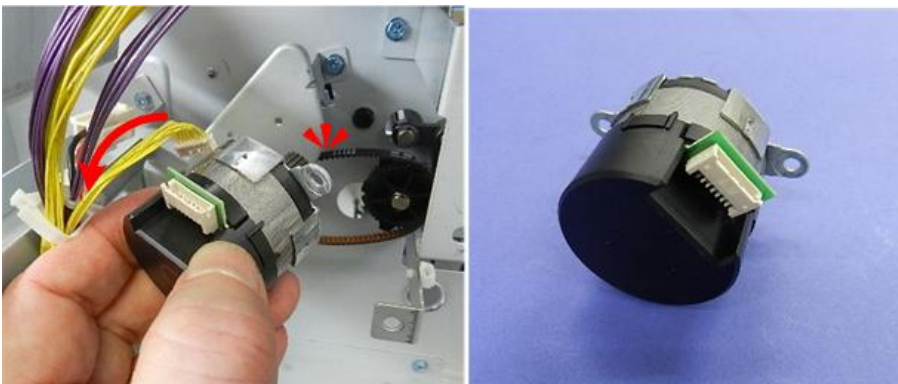
d7340079

3. Disconnect bracket (🔩 x2).



d7340080

4. Remove motor (🌀 x1).



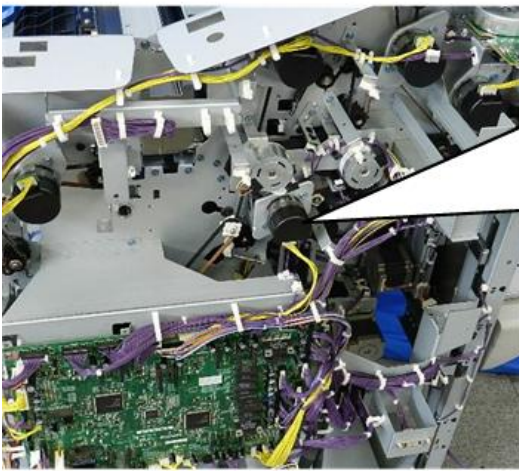
d7340081

Horizontal Transport Motor

Preparation

- Rear upper cover (page 15)

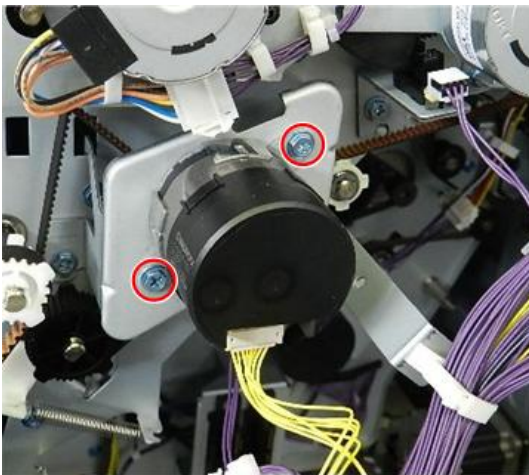
1. The horizontal exit motor is above the right upper corner of the main board.



d7340082

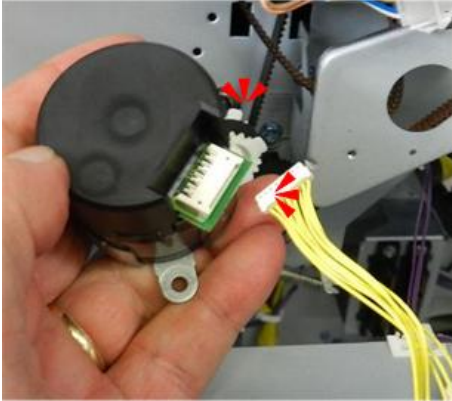


2. Disconnect motor bracket (🔩 x2).



d7340083

3. Disconnect and remove motor (🔧 x1, 🌀 x1).



d7340084

Proof Tray

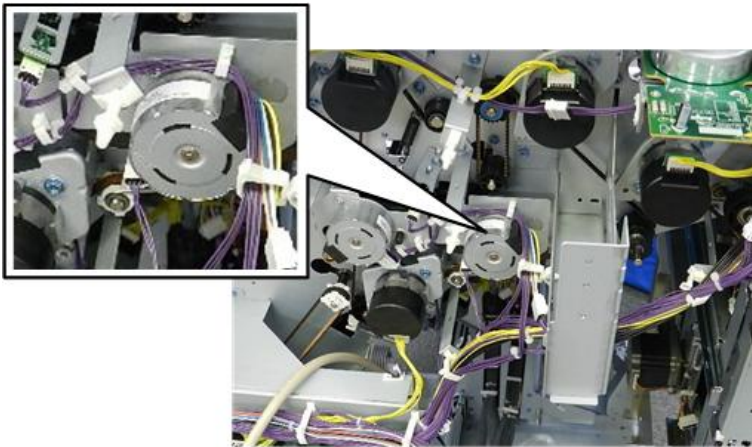
1

Proof Tray Motors

Proof Tray JG Motor

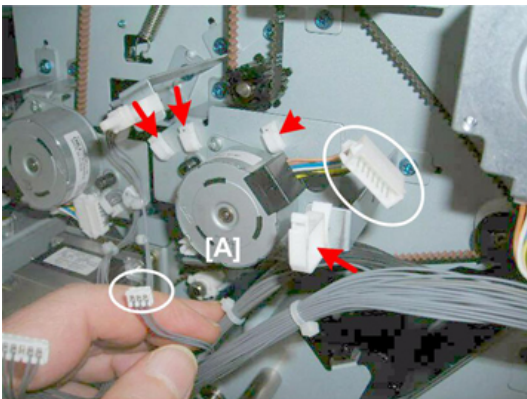
Preparation

- Rear upper (cover (page 15)
 - Punch unit PCB (page 161)
1. The proof tray JG motor is located here.



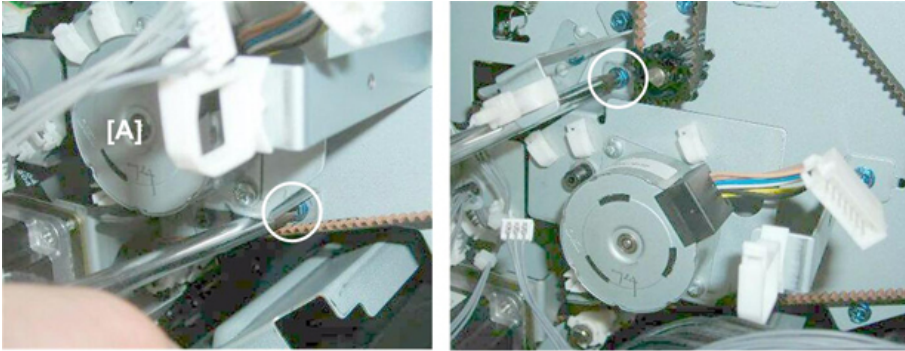
d7340088

2. Disconnect motor [A] (🔌 x4, 📦 x2)



d434r186

3. Bracket of the motor [A] (🔩 x2)

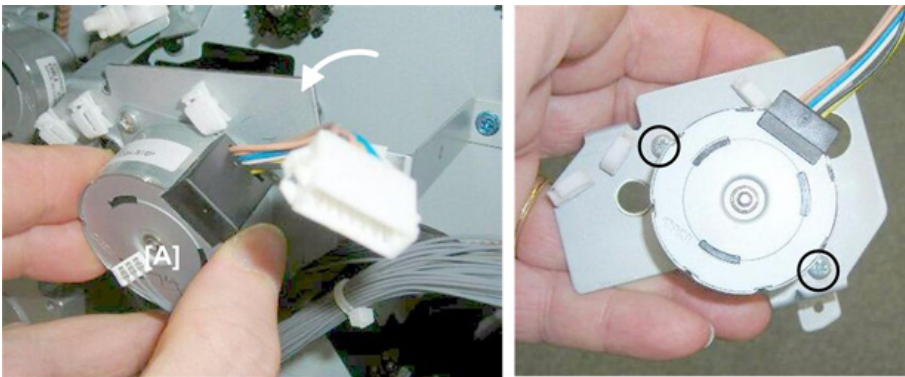


d434r187

4. Remove:

[A] Motor with bracket

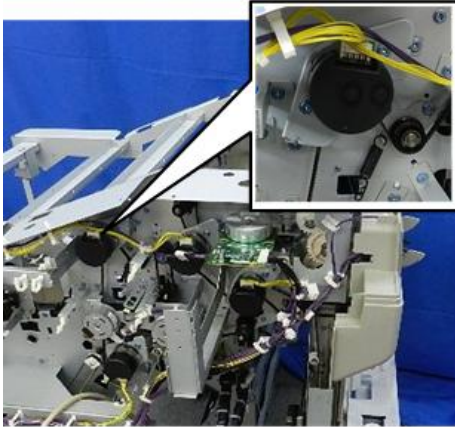
[B] Bracket (⚙️ x2)



d434r188

Proof Tray Vertical Transport Motor

The proof tray vertical transport motor is located here, partially covered by the punch unit PCB (if the punch unit has been installed.)

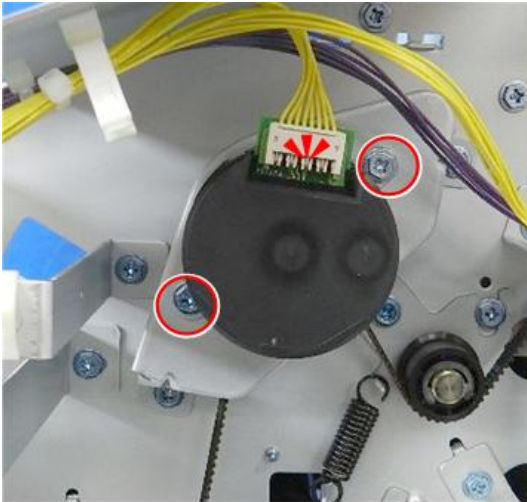


d7340089

Preparation

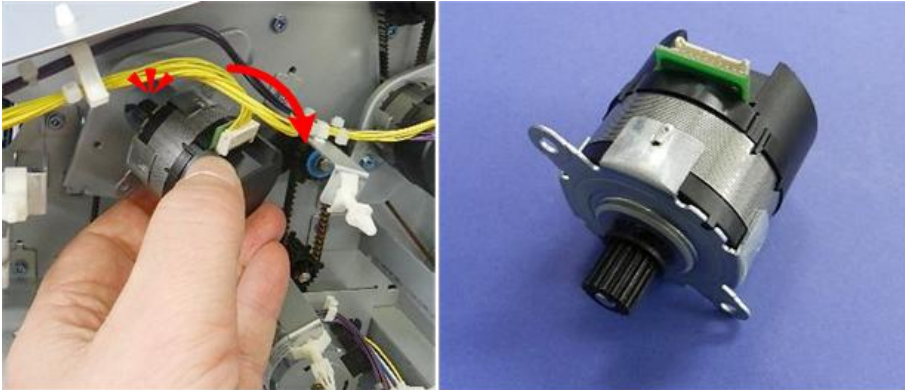
Remove:

- Rear upper cover (page 15)
 - Top rear cover (page 22)
 - Punch unit PCB (page 161)
1. Disconnect motor and bracket (🔧 x1, 🔩 x2).



d7340090

2. Remove motor (🔧 x1).



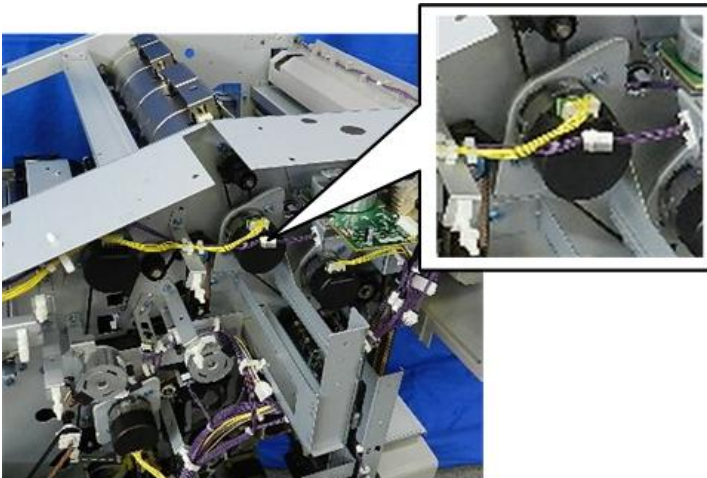
d7340091

Proof Tray Exit Motor

Preparation

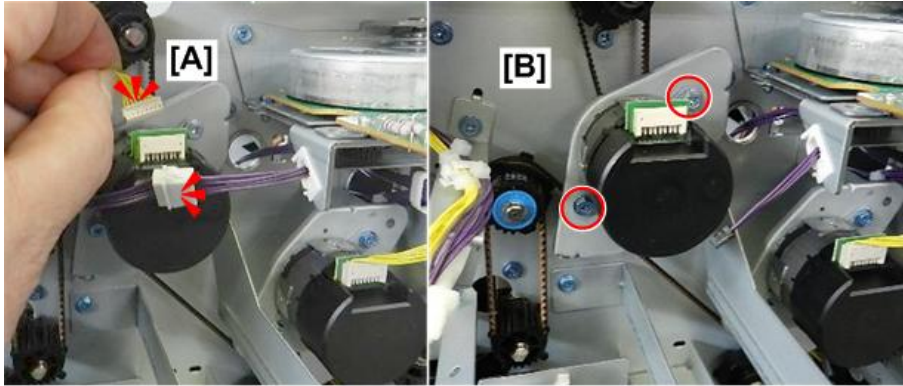
Remove:

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
 - Top rear cover (page 22)
1. The proof tray exit motor is located here.



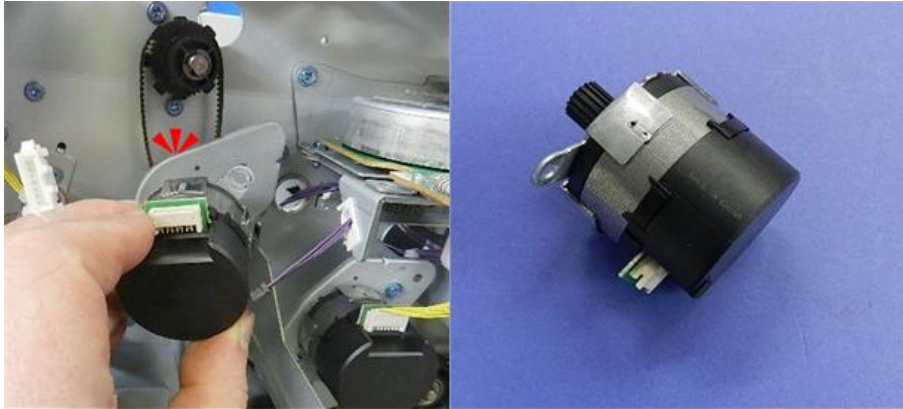
d7340092

2. Disconnect motor and harness in front of motor [A] (🔧 x2).
3. Disconnect motor from bracket [B] (🔧 x2).



d7340093

4. Remove motor (🌀x1).



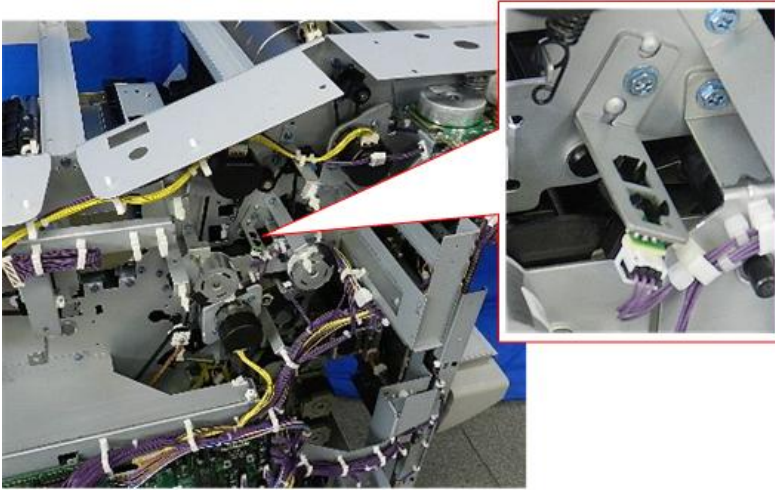
d7340094

Proof Tray Sensors

Proof Tray JG HP Sensor

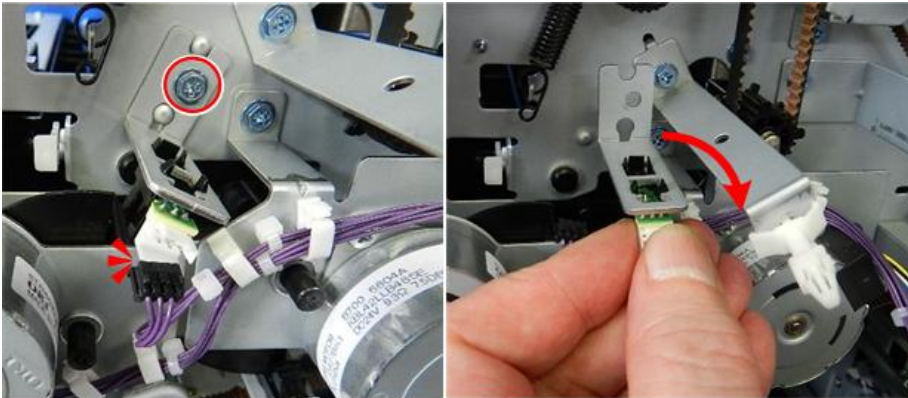
Preparation

- Rear upper cover (page 15)
1. The proof tray junction gate HP sensor is located here.



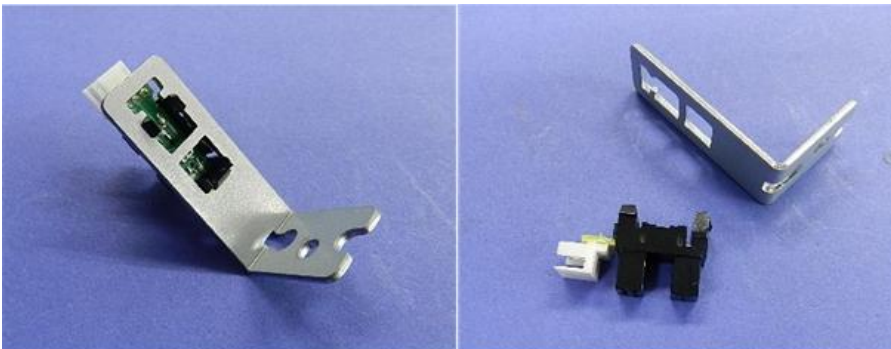
d7340095

2. Disconnect sensor and bracket and then remove bracket (with sensor attached) (🔧 x1, 🔩 x2).



d7340096

3. Separate sensor and bracket (🔧 x4).



d7340097

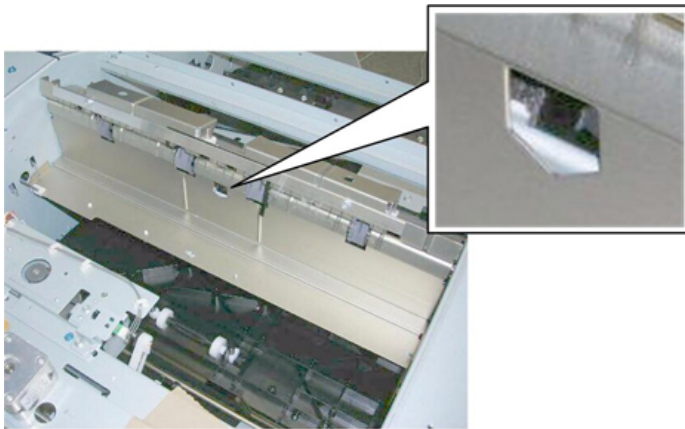
Proof Tray Exit Sensor, Proof Tray Full Sensor

Preparation

Remove:

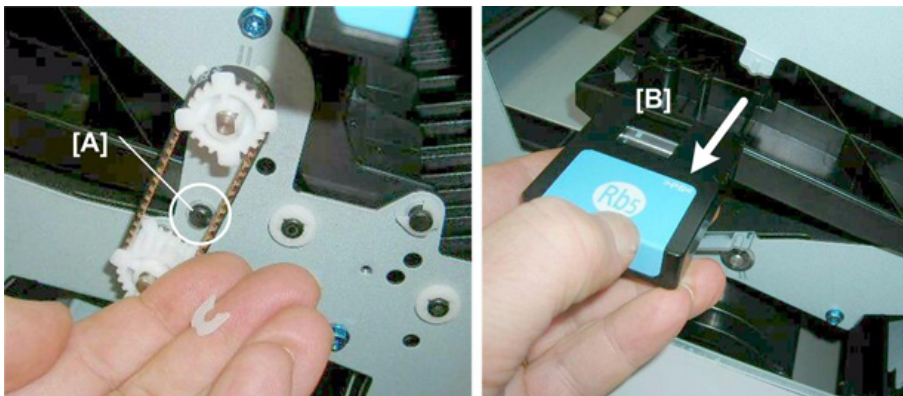
- Upper inner cover (page 19)
- Top rear cover (page 22)
- Shift tray jogger unit (page 22)
- Left upper cover (page 23)
- Proof tray (page 20)

1. These sensors are mounted on the same bracket under the paper path cover.



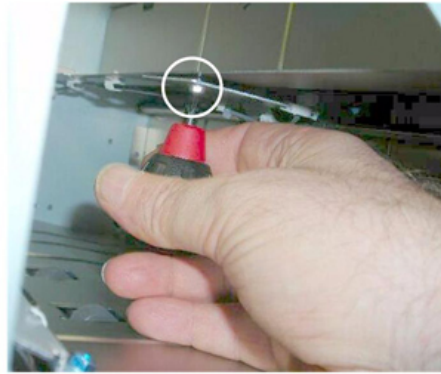
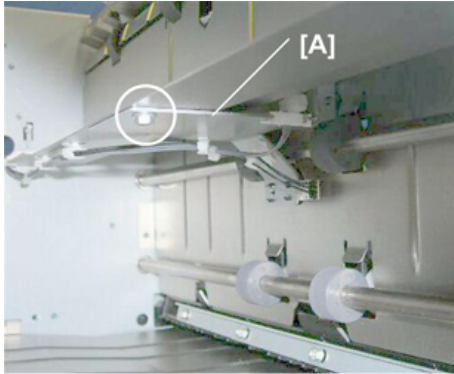
d434r198

2. At the front, disconnect the shaft [A] of plate Rb5. (⚙️ x 1)
3. Remove **Rb5** [B]



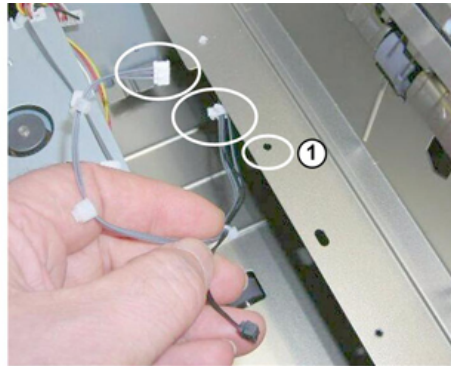
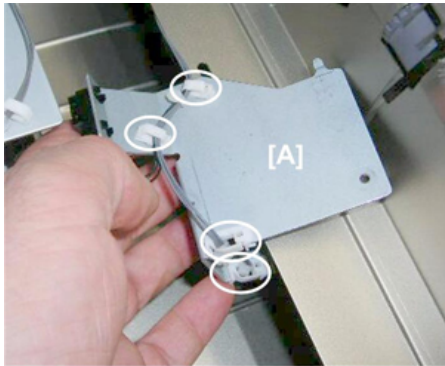
d434r199

4. Use a short screwdriver to remove bracket plate [A]. (⚙️ x 1)



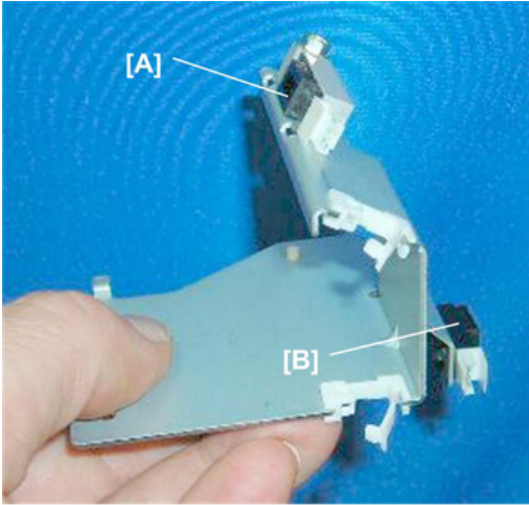
d434r200

5. Use a pencil or marker to mark the color and location of the harnesses.
6. Disconnect a standoff ① to create slack in the harnesses.
7. Disconnect the bracket and sensors [A] (🔧x4, 📦 x2).



d434r201

8. Remove:
 - [A] Tray full sensor (📦 x1)
 - [B] Tray exit sensor (🔧 x5)



d434r202

Shift Tray

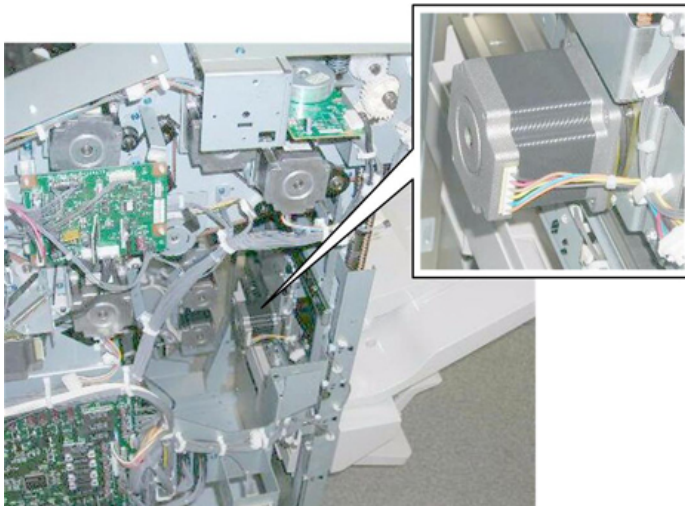
Shift Tray Side-to-Side Movement

1

Shift Motor

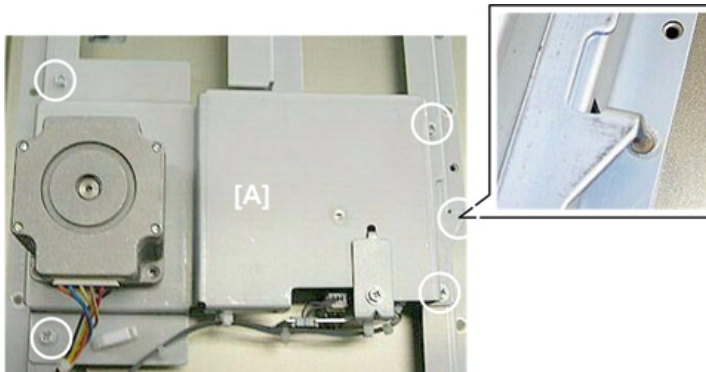
Preparation

- Remove end fence (page 33)
1. The shift motor is visible inside the machine, but the end fence must be removed for servicing this motor.



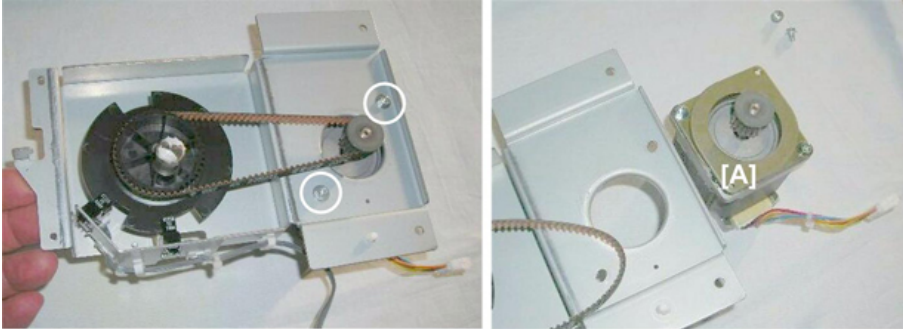
d434r203

2. Lay the end fence on a flat surface.
3. Remove bracket [A] (⊙ x4, ▽ x1)



d434r204

4. Turn the bracket over and remove the motor [A] (🔩 x2, 🌀 x1)



d434r205

Shift Tray HP Sensors (Front, Rear)

These sensors are mounted on the same bracket as the shift motor.

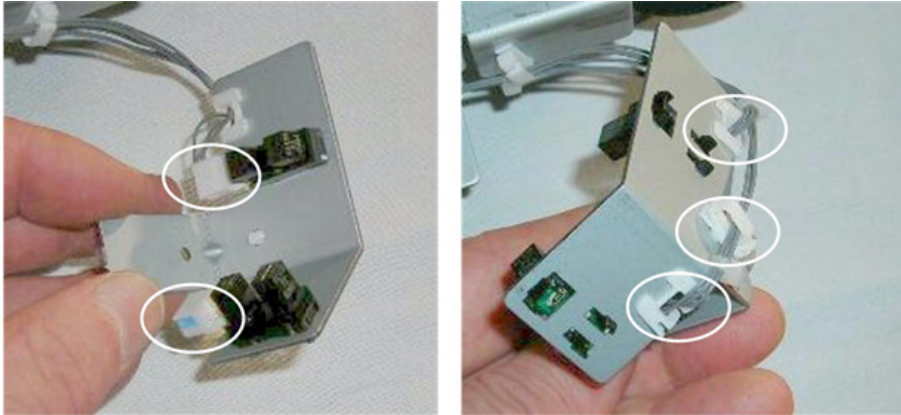
Preparation

- Remove end fence (page 33)
1. Remove sensor bracket [A] (🔩 x1).



d434r206

2. Remove sensors (📦 x2, 🌀 x3, ▼ x 5 each)



d434r207

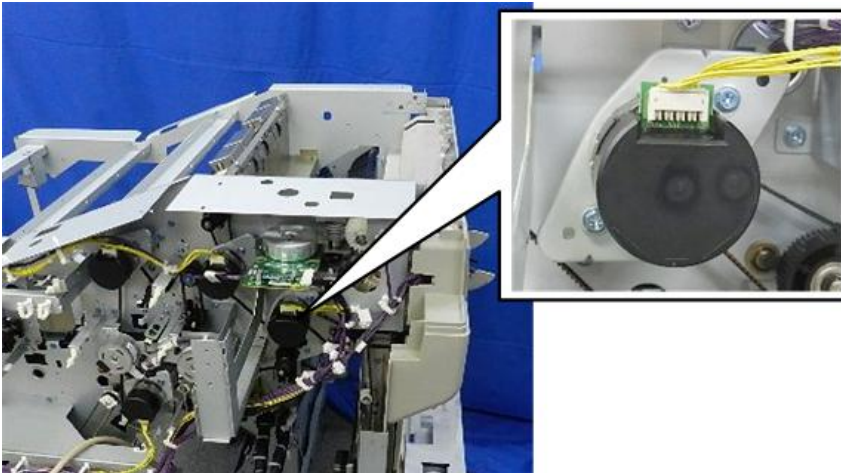
1

Shift Tray Exit



Shift Tray Exit Motor

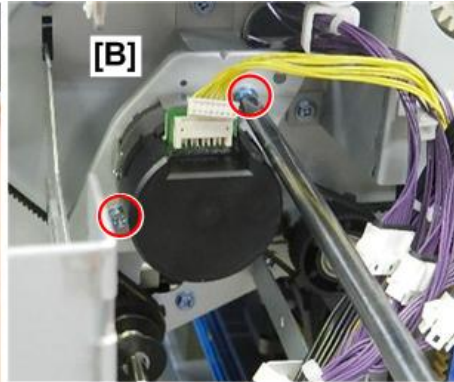
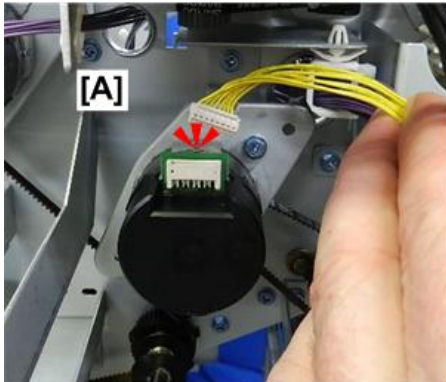
Preparation

- Rear upper cover (page 15)
1. The shift tray exit motor is under the shift tray lift motor board.



d7340085

2. Disconnect motor [A] ( x1).
3. Disconnect bracket [B] ( x2).



d7340086

4. Remove motor (1x1).

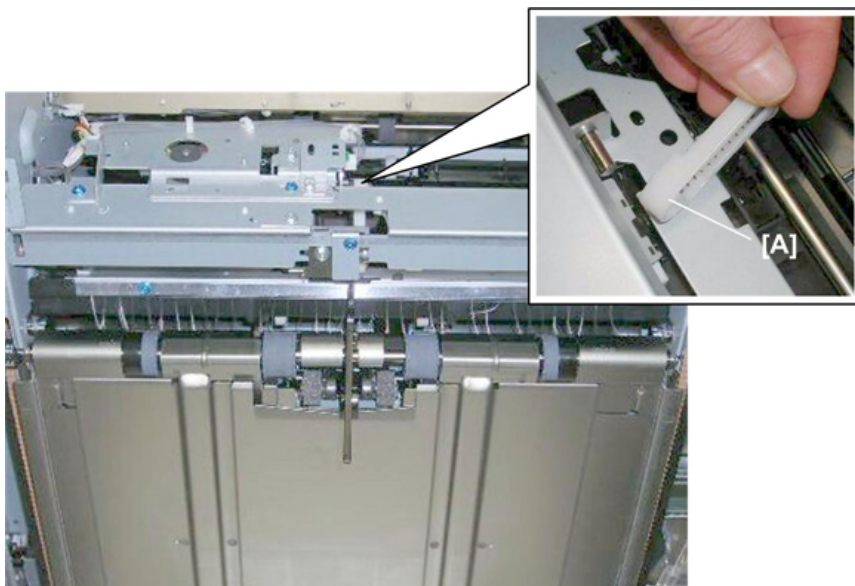


d7340087

Shift Tray Exit Sensors (Long and Short)

Preparation

- Remove proof tray (page 20)
- 1. Lift arm [A] (1x1)



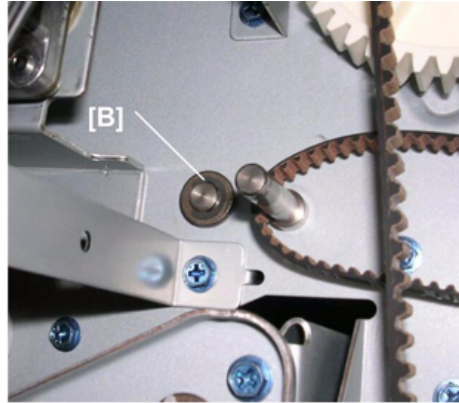
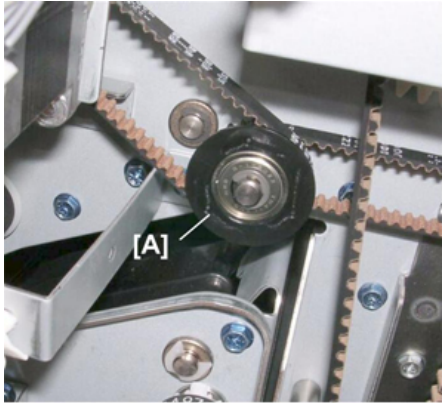
d434r208

2. At the front, remove the bushing (🔩 x1).



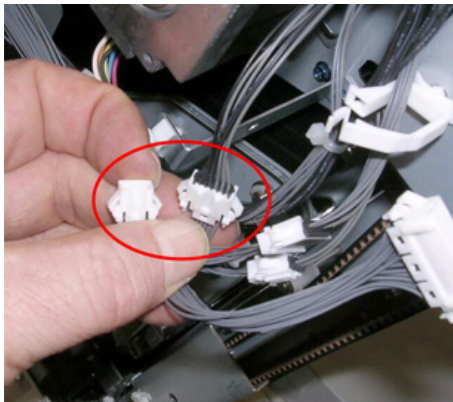
d434r209

3. At the rear, remove:
 [A] Gear (🔩x1, 🌀x2)
 [B] Bushing (🔩 x1)



d434r209a

4. At the rear, disconnect the sensor harness.
5. Pull it through the hole into the machine.



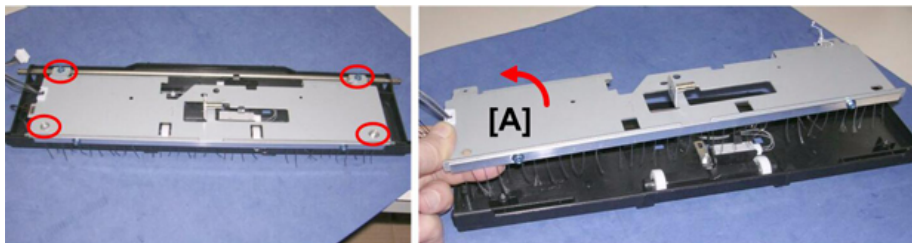
d434r209b

6. Pull the plate assembly out from the front of the machine.







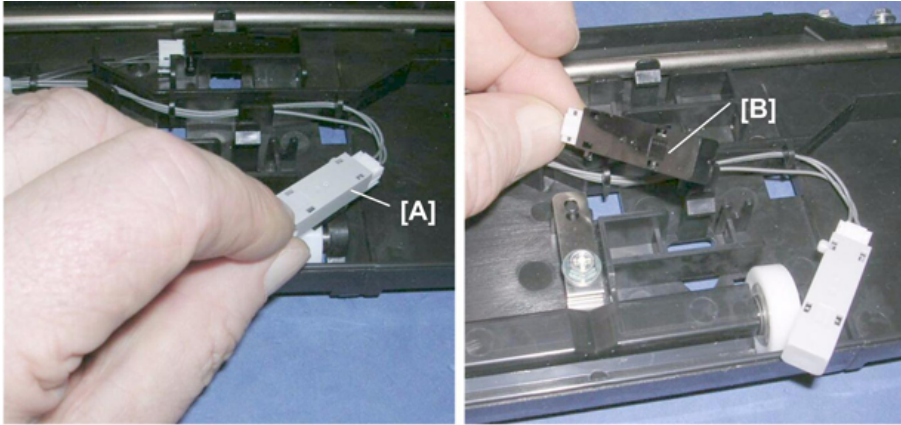
d434r209c

7. Lay the assembly on a flat surface.
8. Remove the plate [A].



d434r209d

9. Remove:
 - [A] Exit sensor (long) ( x1,  x1)
 - [B] Exit sensor (short) ( x1,  x1)



d434r209e

Drag Roller Motors, Sensors

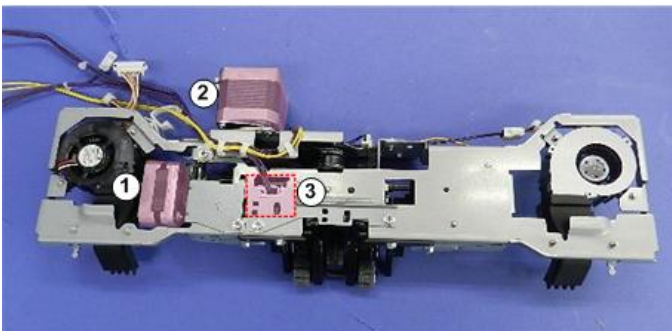
Preparation

Remove:

- End fence (page 20)
- Drag roller unit (page 41)

These three components require removal of the drag roller unit.

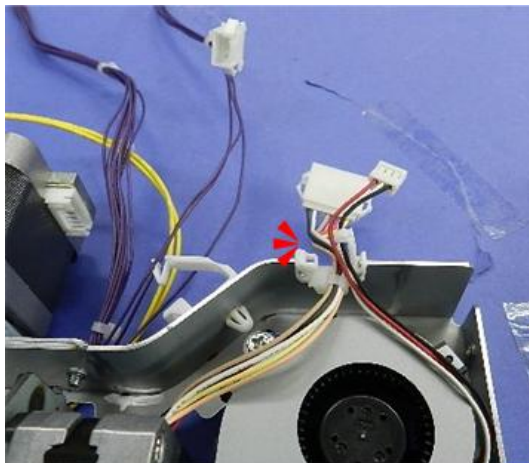
①	Drag roller motor
②	Drag roller drive motor
③	Drag roller HP sensor



d7340098

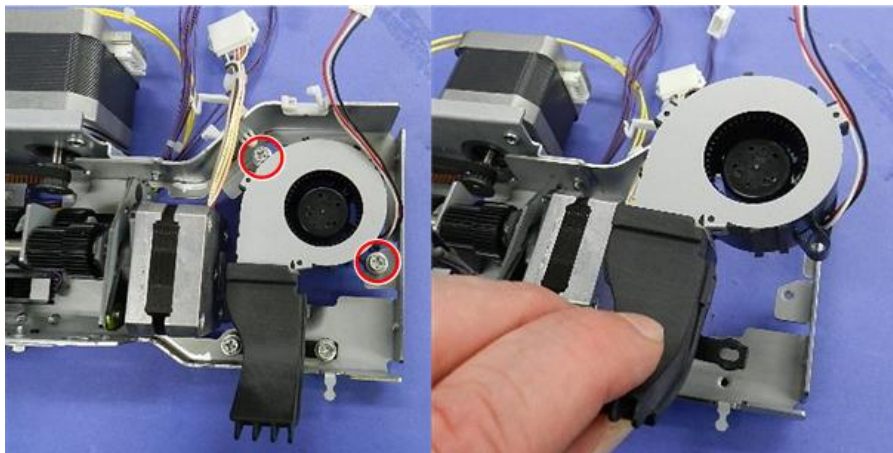
Drag Roller Motor

1. Free the motor and fan harnesses (🔧x1).



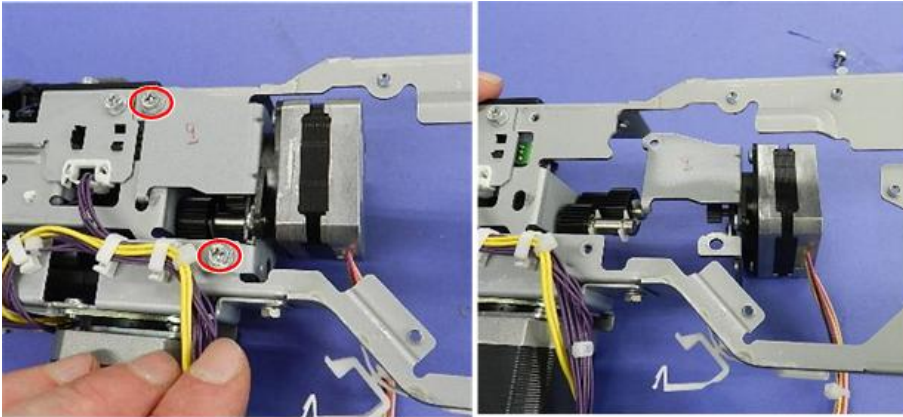
d7340099

2. Remove the fan (🔧x2).



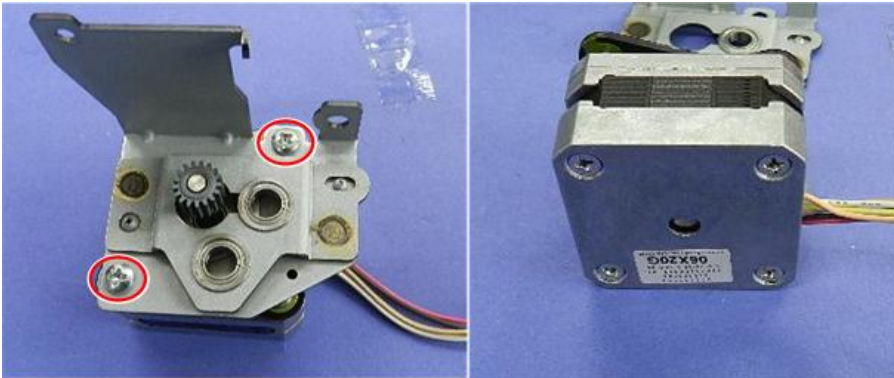
d7340100

3. Remove bracket (with motor attached) (🔧x2).



d7340101

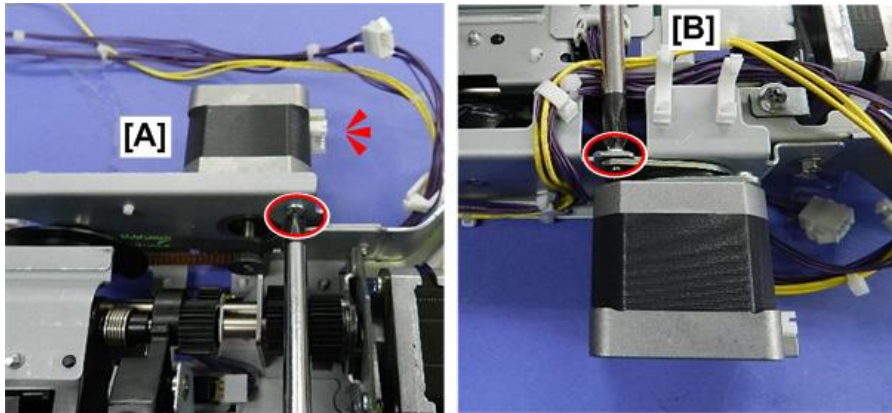
4. Separate motor and bracket (🔧 x2).



d7340102

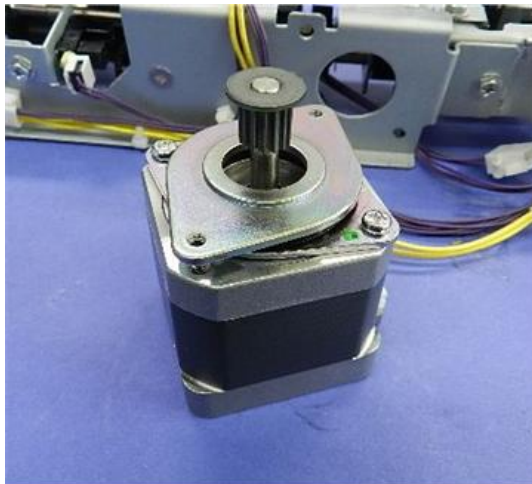
Drag Roller Drive Motor

1. Disconnect motor at [A] (🔧 x1).
2. Turn the unit over, and then disconnect at [B] (🔧 x1).



d7340103

3. This disconnects the motor.



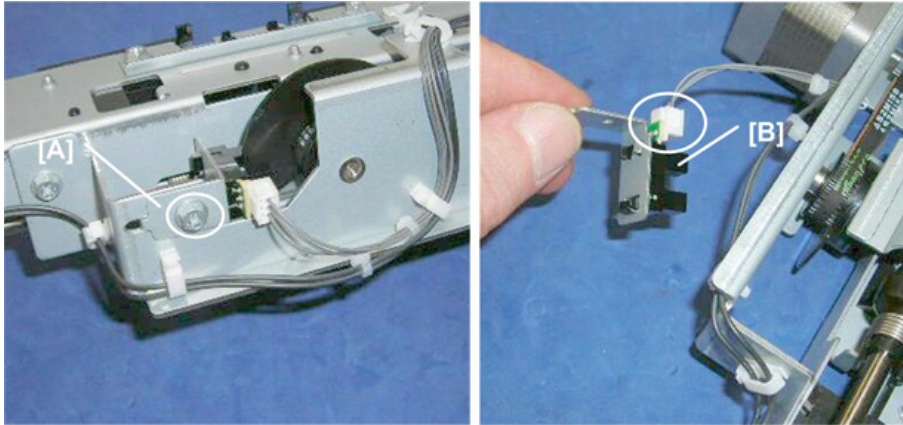
d7340104

Drag Roller HP Sensor

1. Remove:

[A] Sensor bracket (🔑 x1)

[B] Sensor (🔑 x1, 🔩 x5)

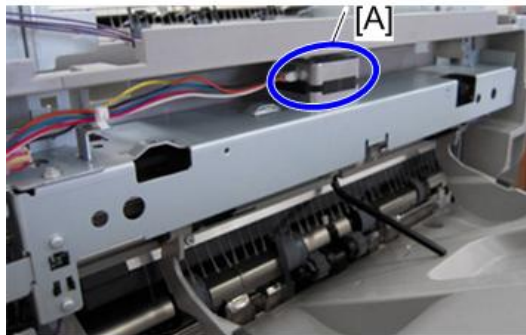


d434r215

Shift Tray Jogger Unit

Shift Jogger Motor

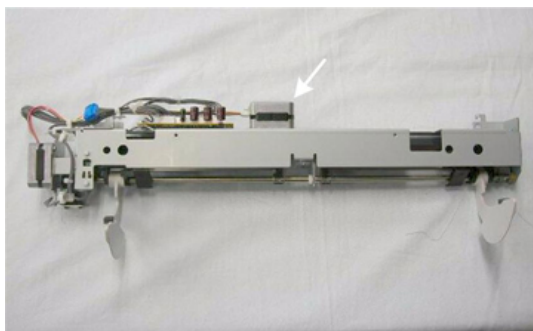
This motor [A] is on top of the shift tray jogger unit, near the center.



d7340501

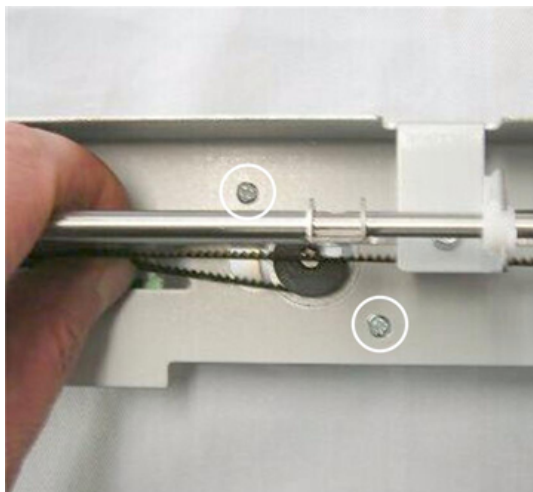
Preparation

- Shift tray jogger unit (page 22)
- This is the location of the motor with the shift jogger unit removed.



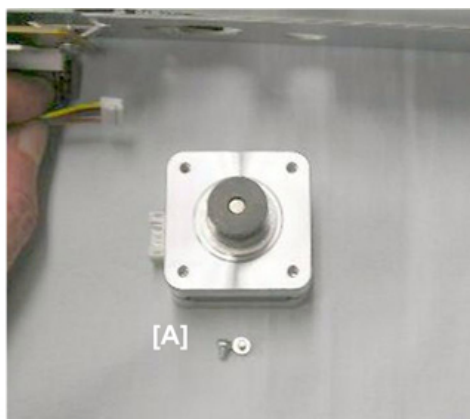
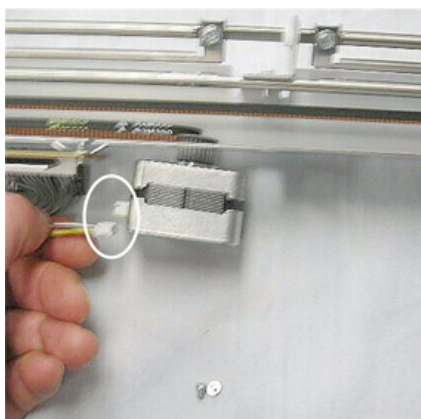
d434r218

1. Turn the unit over and disconnect the motor (🔩 x2, ⚙️ x1).



d434r219

2. Disconnect motor [A] (🔩 x1)

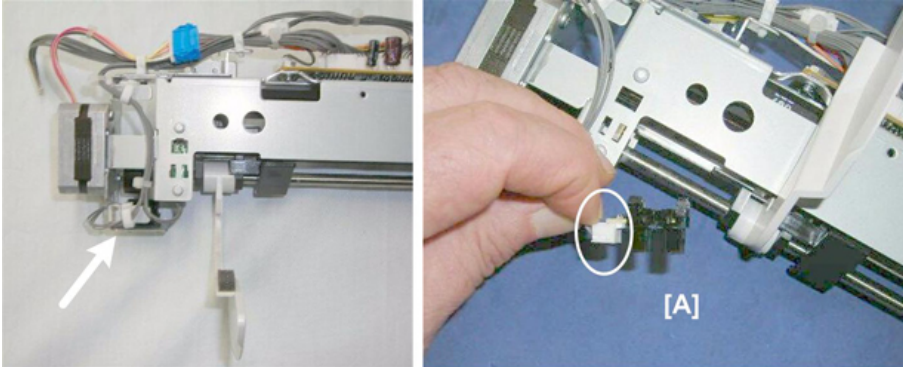


d434r220

Shift Tray Jogger Fence HP Sensor

Preparation

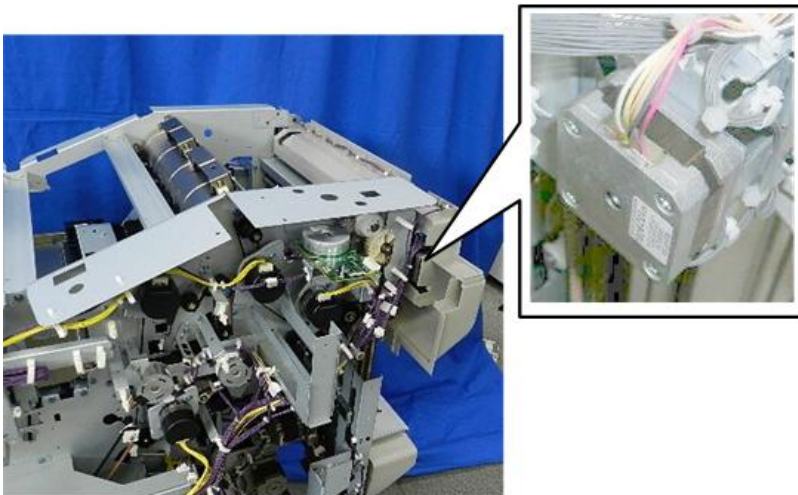
- Shift tray jogger unit (page 22)
1. Remove sensor [A] (📦 x1, 🔩 x5)



d434r221

Shift Jogger Retraction Motor

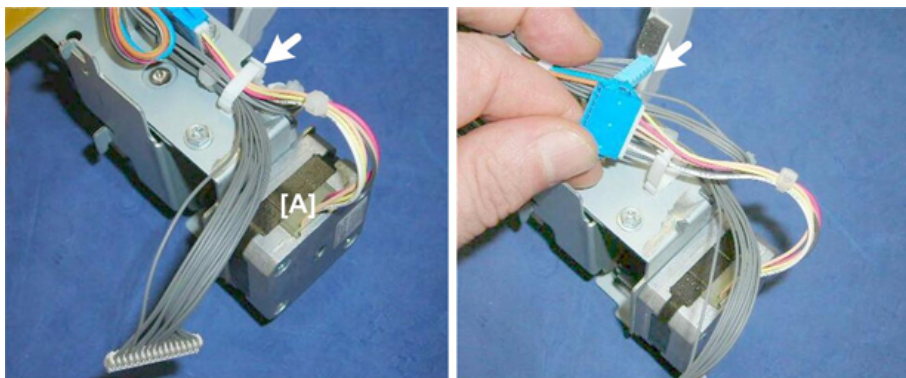
This is the motor on the end of the shift tray jogger unit.



d7340105

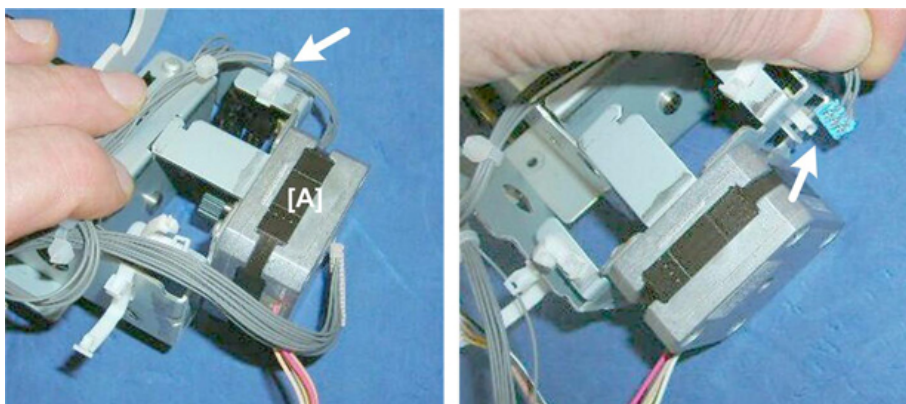
Preparation

- Shift tray jogger unit (page 22)
1. Disconnect the motor harness [A] (🔌 x1, 📦 x1)



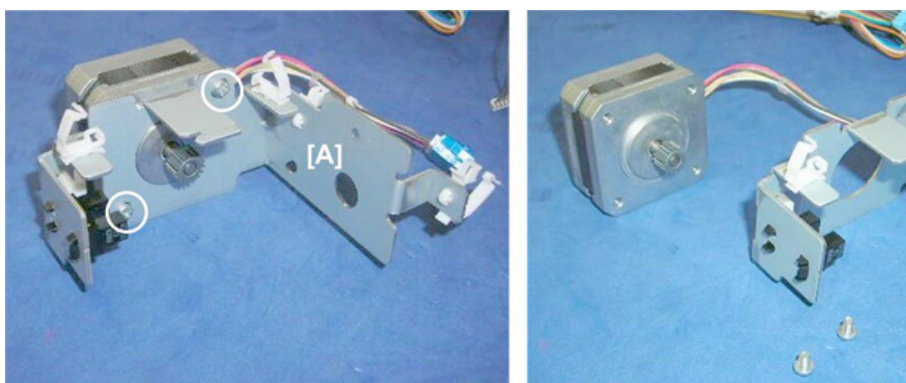
d434r223

2. Disconnect the retraction HP sensor on the same bracket as the motor [A] (🔧 x1)



d434r224

3. Disconnect motor bracket [A] (🔧 x1, 🔑 x2)



d434r225

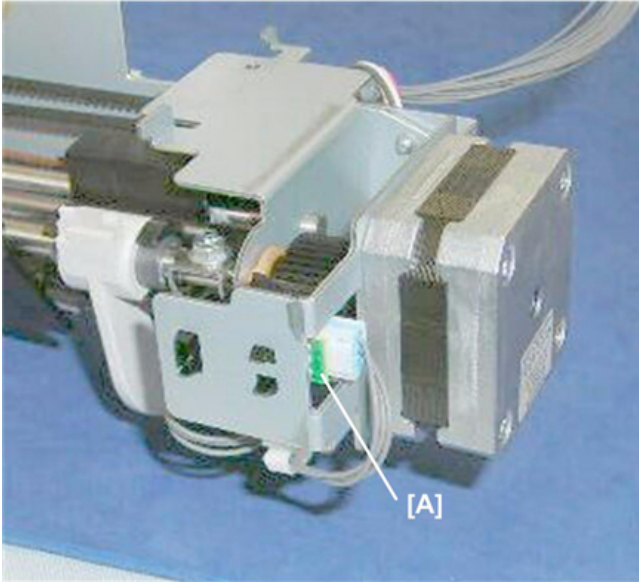
Shift Jogger Fence Retract HP Sensor

Preparation

- Shift tray jogger unit (page 22)
- Remove sensor [A] (📦 x1, ▼ x5)

⬇ **Note**

- If it is difficult to remove the sensor directly from the frame (or re-install), do the procedure in the previous section to remove the shift jogger retraction motor bracket.



d434r226

Shift Tray Operation

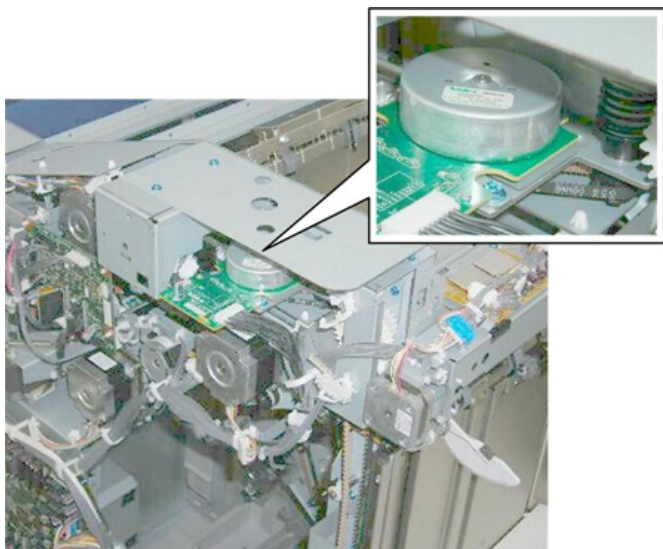
Shift Tray Lift Motor

Preparation

Remove:

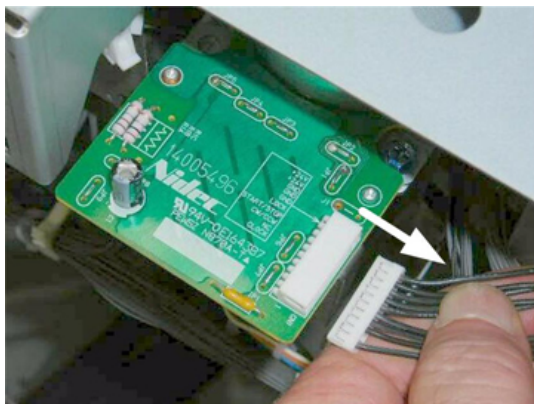
- Rear upper cover (page 15)
- Top rear cover (page 22)
- Proof tray (page 20)

1. The shift tray lift motor is near the left rear corner.



d434r227

2. Disconnect the motor drive board (🔧 x1).

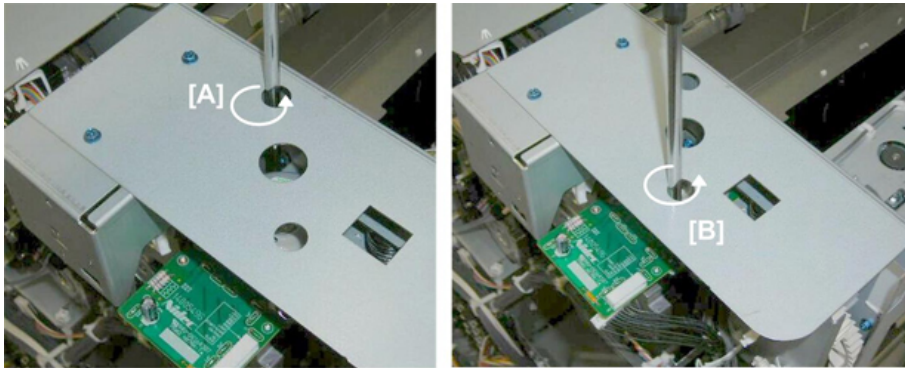


d434r228

3. Remove:

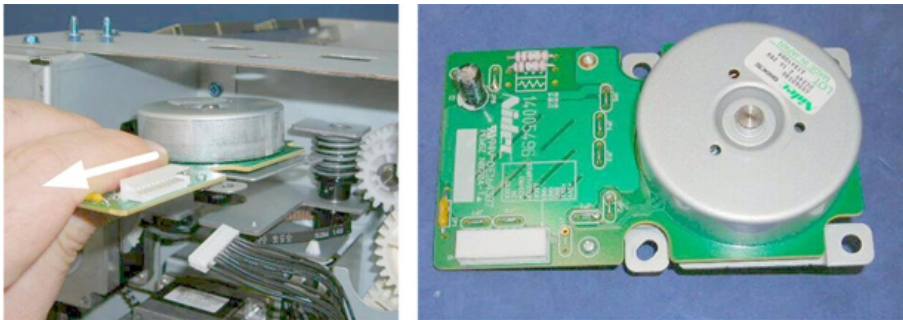
[A] Rear (🔧 x1)

[B] Front (🔧 x1)



d434r229

4. Pull the motor and drive board motor out.



d434r230

Paper Height Sensors 1, 2, 3 (Shift, Staple, Z-Fold)

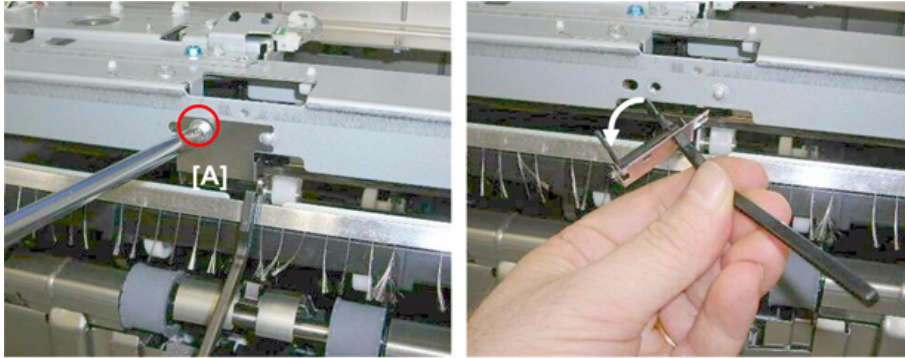
Preparation

- Proof tray (page 20)
1. Remove the protector plate [A] (🔩 x1).



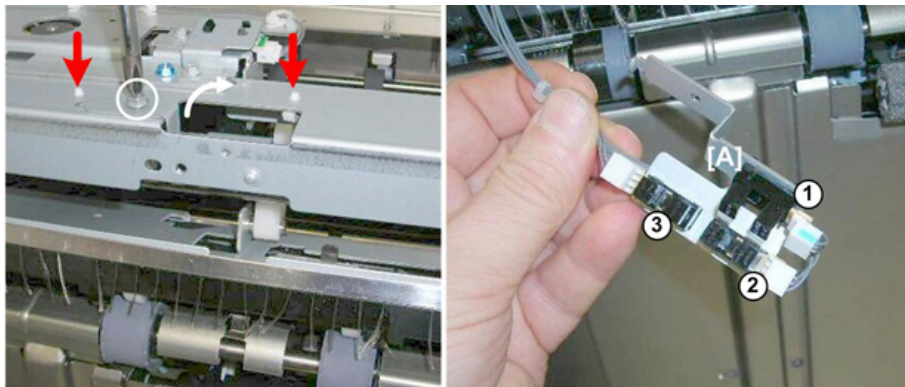
d434r231

2. Remove feeler [A] (🔩 x1).



d434r232

3. Remove sensor bracket [A] (🔑 x1, Standoffs x2)
4. Sensors (📦 x1 each)
 - ① Paper Height Sensor 1: Staple Mode
 - ② Paper Height Sensor 2: Shift Mode
 - ③ Paper Height Sensor 3: Z-Fold Mode

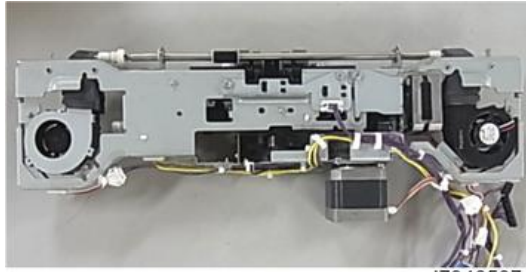


d434r233

Paper Height Sensor (TE), Shift Tray Upper Limit Switch

The actuator of the paper height sensor performs two functions:

- First, it rises and actuates the Paper Height Sensor (TE) [B] to detect tray full.
- Second, if the actuator rises far enough through the gap of the interrupt sensor (TE) it will trip the arm of a micro-switch [D]. This is a fail-safe device to switch the finisher off if one or more other sensors fail.



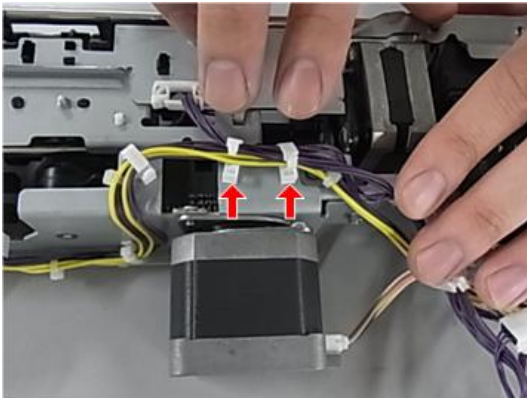
d7340507

Preparation

- End fence (page 33)
- Drag roller unit (page 41)

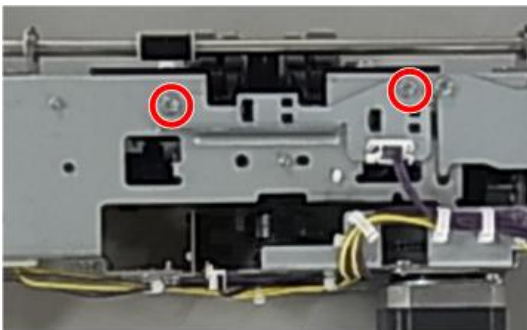
Paper Height Sensor (TE)

1. Open clamps above motor (🔧 x2).



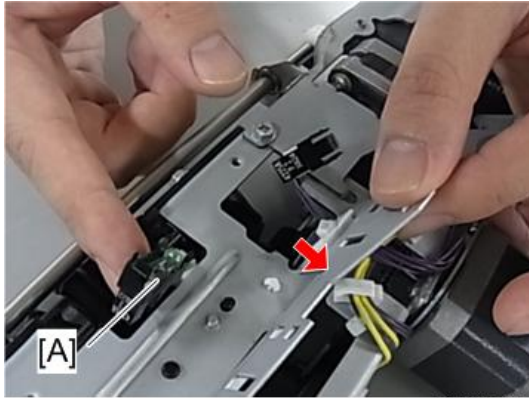
d7340508

2. Disconnect (🔧 x2).



d7340509

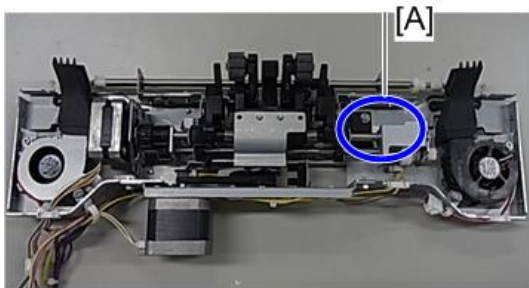
3. Remove sensor [A] (🔧 x1).



d7340510

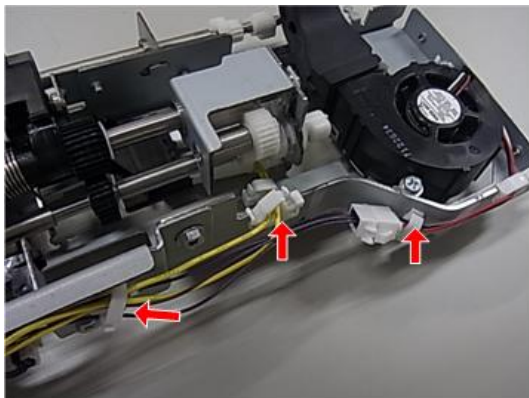
Shift Tray Limit Switch

1. The switch is located at [A].



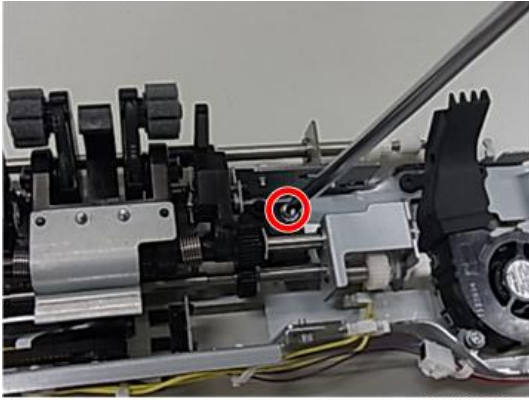
d7340511

2. Open the clamps (🔧x3).



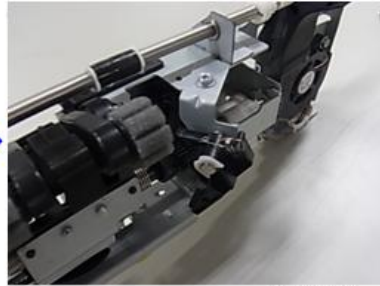
d7340512

3. Disconnect switch (🔧x1).



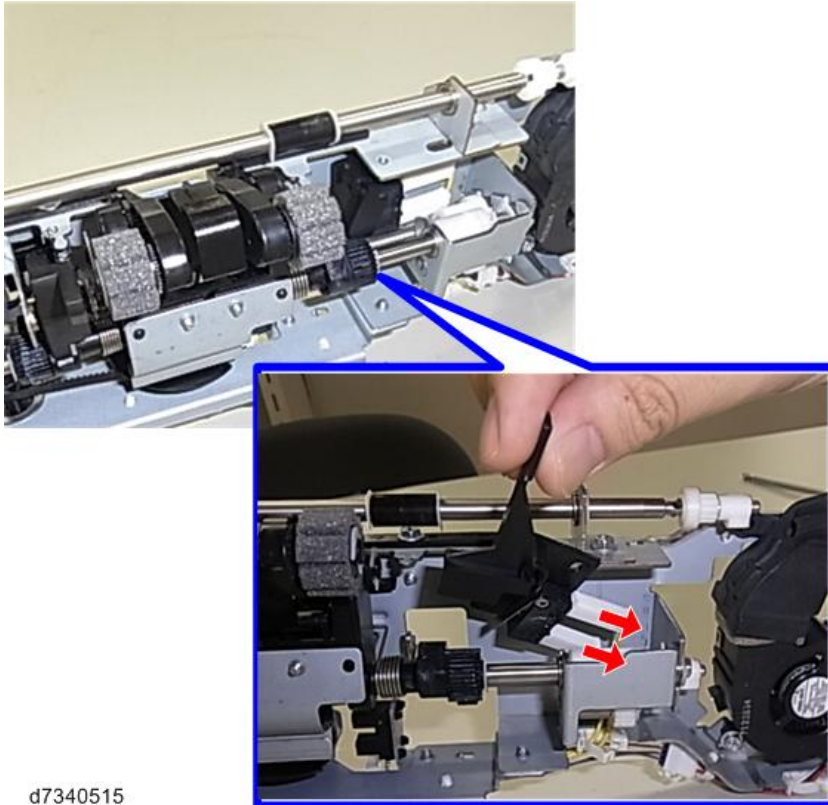
d7340513

4. Remove lever screw (🔩 x1).



d7340514

5. Disconnect switch (🔌 x2).



d7340515

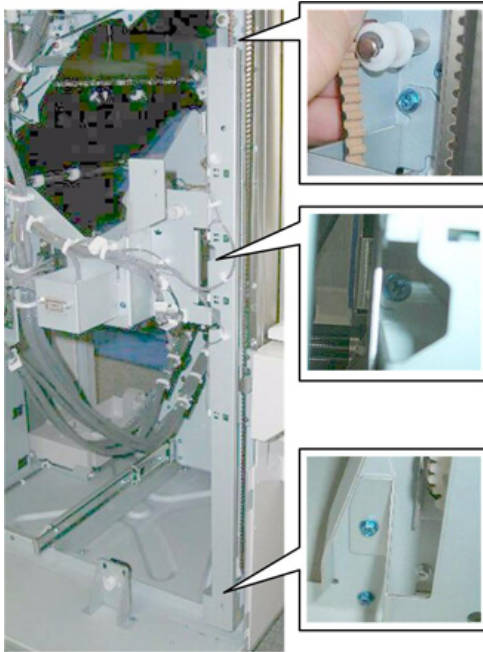
Shift Tray Full Sensors 1, 2, 3, 4 (500)

The tray full sensors are all mounted on the same vertical stay at the left rear corner of the finisher:

- Shift Tray Full Sensor (500)
- Shift Tray Full Sensor (1000)
- Shift Tray Full Sensor (1500)
- Shift Tray Full Sensor (2500)

Preparation

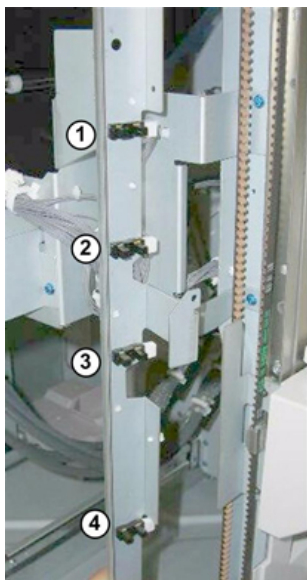
- Rear upper cover (page 15)
 - Rear lower cover (page 16)
1. Remove the vertical stay cover (🔩 x3).



d434r240

2. The four sensors, (🌀 x1 each, ▼ x5 each)

- ① Shift Tray Full Sensor (500)
- ② Shift Tray Full Sensor (1000)
- ③ Shift Tray Full Sensor (1500)
- ④ Shift Tray Full Sensor (2500)



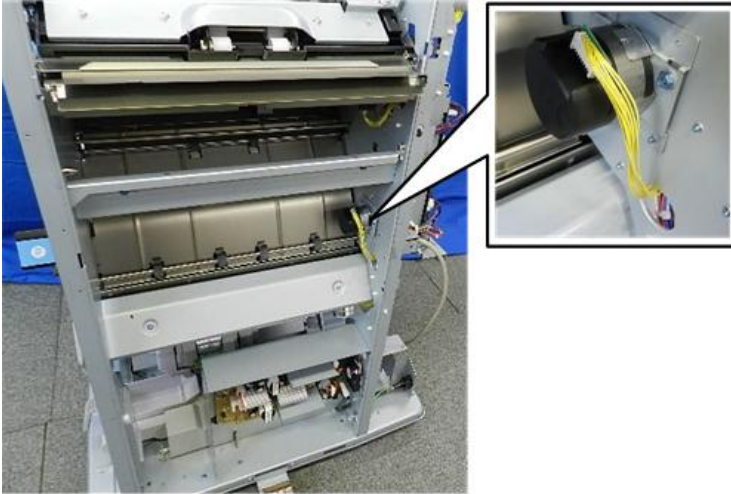
d434r241

Pre-Stacker

1

Pre-Stack Motors

The pre-stack motor is visible from the right side of the finisher below the lock bar.



d7340106

Pre-Stack Motor

Preparation

Remove:

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
 - Right panels (page 24)
1. Disconnect motor (🔌 x1).



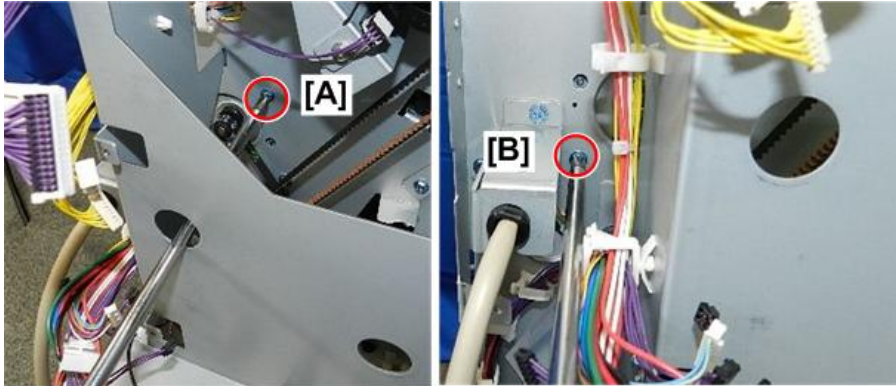
d7340107

2. Remove main board (🔧x17, 📦x44, 🔩x8).



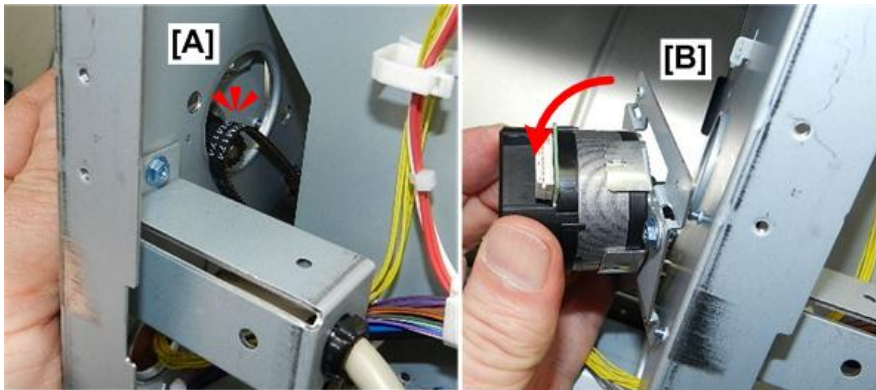
d7340108

3. Remove upper bracket screw [A] (🔩x1).
4. Remove lower bracket screw [B] (🔩x1).



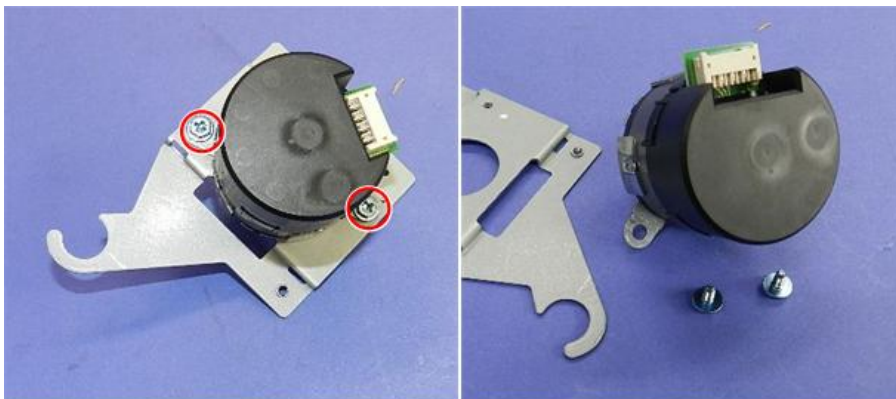
d7340109

5. Disengage belt [A] (Ⓜx1).
6. Remove bracket [B] (with motor attached).



d7340110

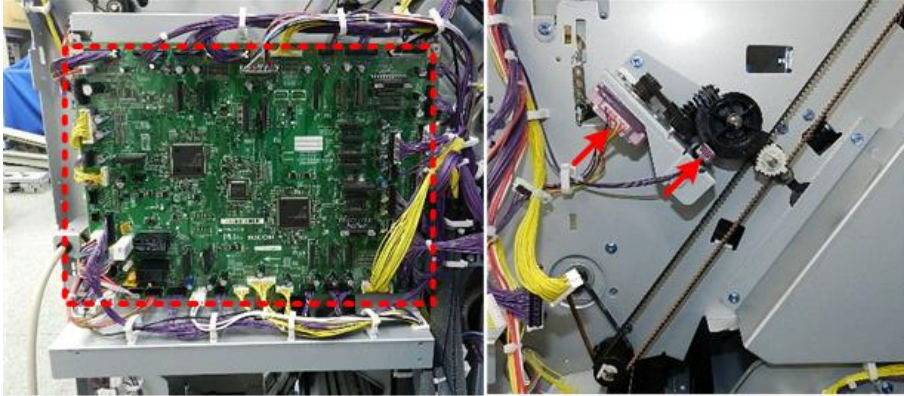
7. Separate bracket and motor (Ⓜx2).



d7340111

Pre-Stack Release Motor, Pre-Stack Roller HP Sensor

The pre-stack release motor and pre-stack roller HP sensor are behind the main board.



d7340112

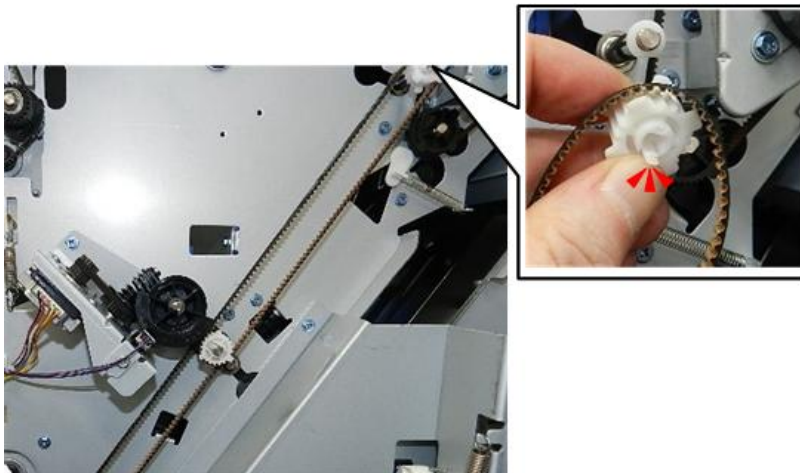
Preparation

Remove:

- Rear upper cover (page 15)
- Rear lower cover (page 16)
- Main board (page 159)

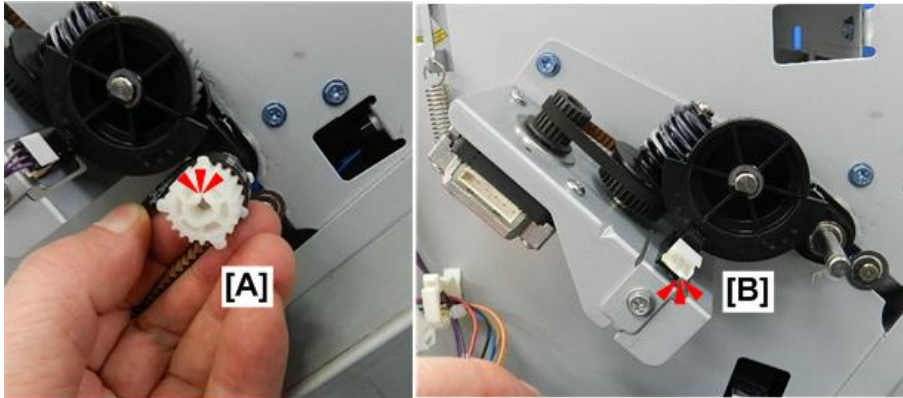
Pre-stack Release Motor

1. Remove upper belt (🌀x1). The white gear can be released by a tab with your fingernail.



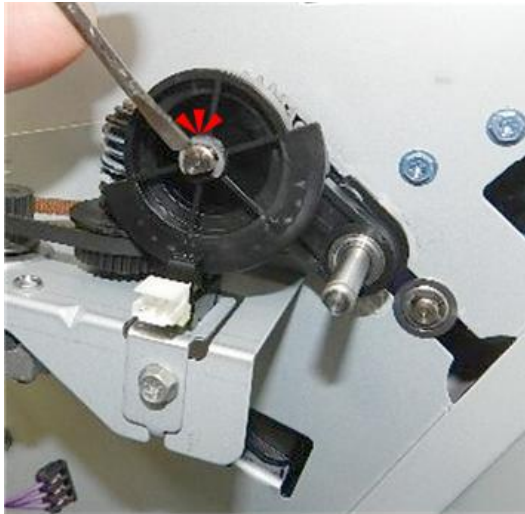
d7340113

2. Remove lower belt and gear (🌀x1, ⚙️x1). The white gear can be released by a tab with your fingernail.



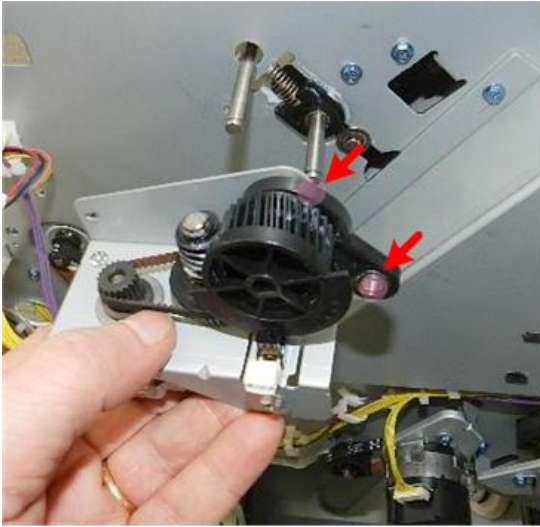
d7340114

3. Remove e-ring (1x1).



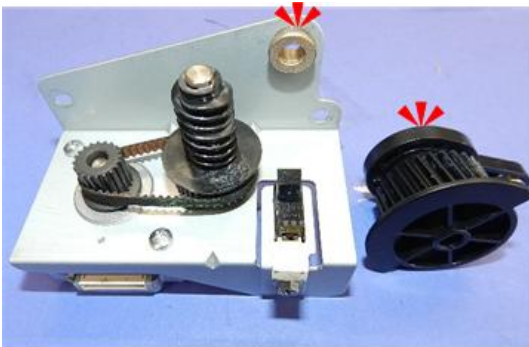
d7340115

4. Slowly, remove bracket and cam follower. Be careful to prevent the bushing and bearing of the cam follower from falling.



d7340117

5. Separate the bushing and cam follower from the bracket.





d7340118

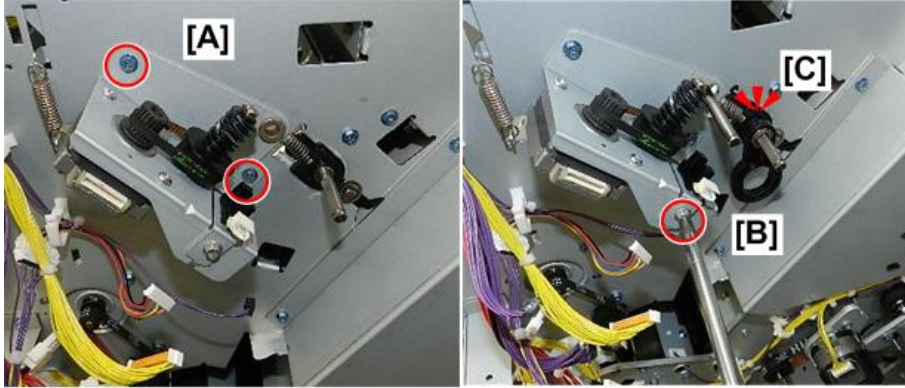
6. Separate motor and bracket (🔩 x2).




d7340119

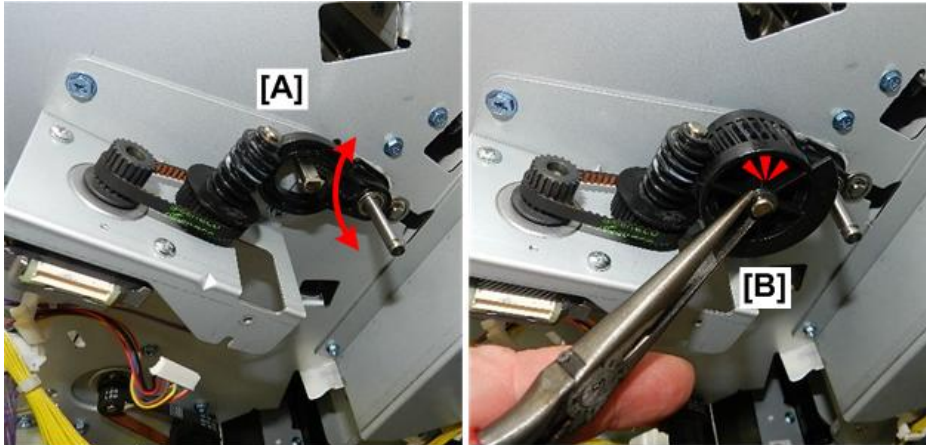
Re-installation

1. Attach bracket [A] ( x2).
2. Remove sensor bracket (with sensor attached) ( x1).



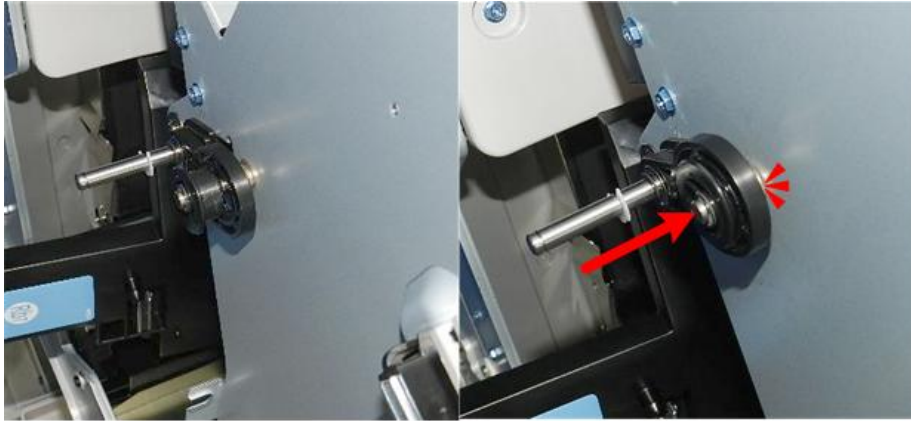
d7340120

3. Set cam follower [A]. Make sure that it swings freely up and down.
4. Set the gear ( x1).



d7340121

5. If the e-ring is difficult to set, check the cam follower at the front, and make sure that it and its bushing are flat and snug against the front frame.
6. You may need to keep pressure on the shaft so it does not slip while attaching the e-ring at the rear.



d7340122

Pre-stack Roller HP Sensor

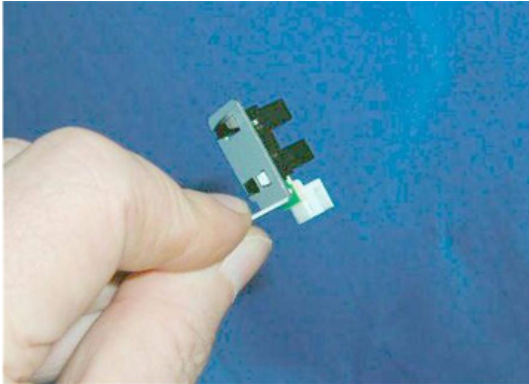
1. Disconnect sensor harness (📦 x1)
2. Remove sensor bracket (🔩 x1)



d7340123

3. Sensor (📦 x4)

1



d434r252

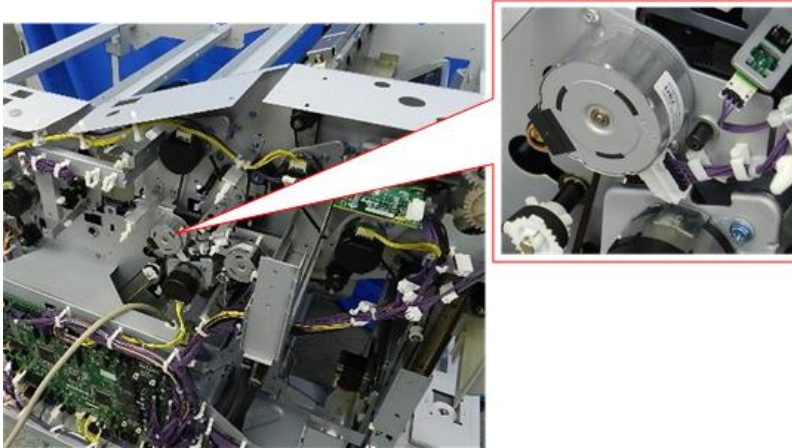
Corner Stapler Unit

Corner Stapler Unit Entrance

1

Stapler JG Motor

The stapler junction gate motor is behind the punch unit PCB.

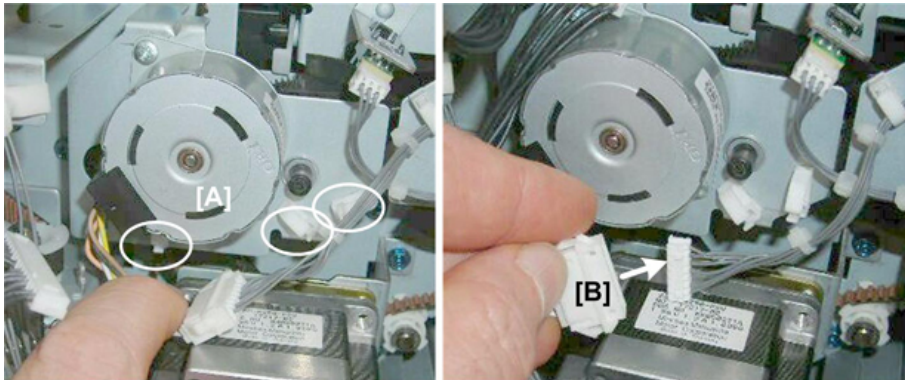


d7340124

Preparation

Remove:

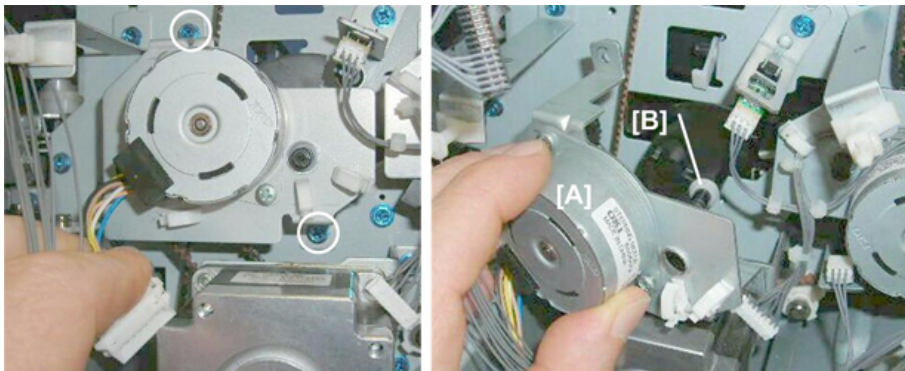
- Rear upper (cover (page 15)
 - Punch unit PCB (page 161)
1. Open the harness clamps of the motor [A] (🔧 x3)
 2. Disconnect the motor at [B] (🔌 x1)



d434r254

3. Remove motor bracket [A] (🔧 x2)

- Slowly, pull the bracket away.
- Make sure the Teflon collar [B] does not fall off the end of the junction gate shaft. Remove it so that it does not accidentally slip off the end of the shaft.



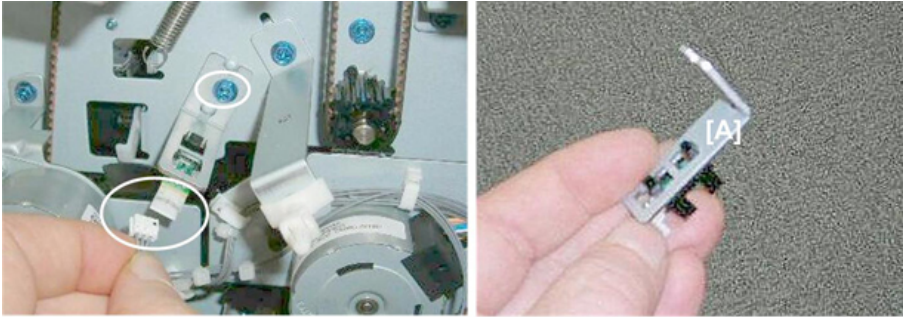
d434r255

Stapler JG HP Sensor

Preparation

Remove:

- Rear upper cover (page 16)
 - Punch unit PCB (page 161)
1. Remove sensor bracket [A] (📦 x1, 🛠️ x1).
 2. Sensor (🔪 x5).

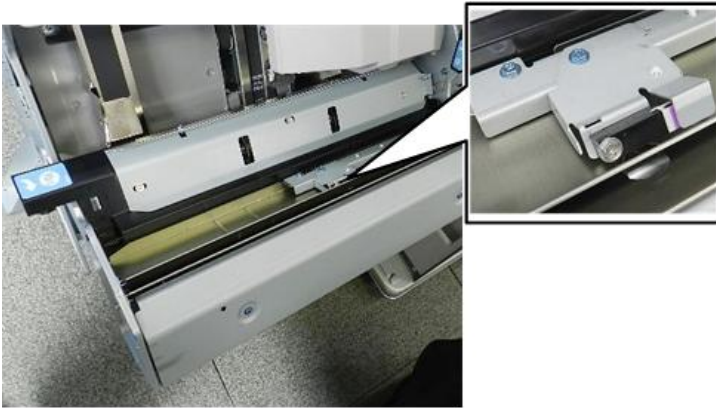


d434r256




Stapling Tray Entrance Sensor

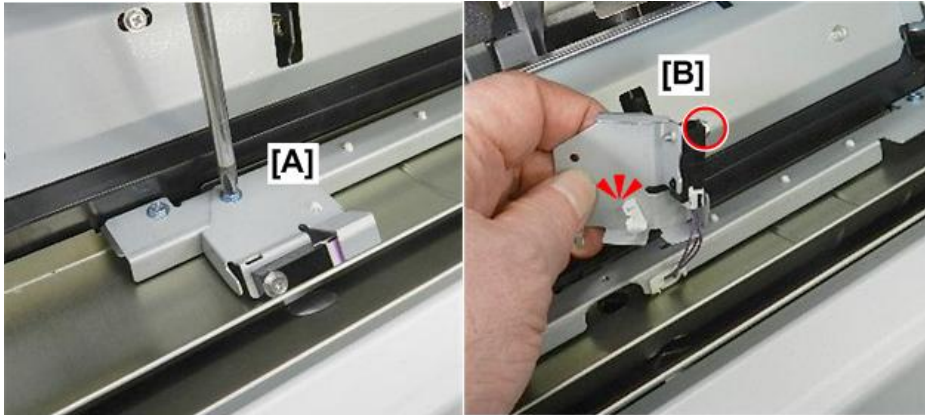
Preparation

1. Pull out the stack/staple unit.



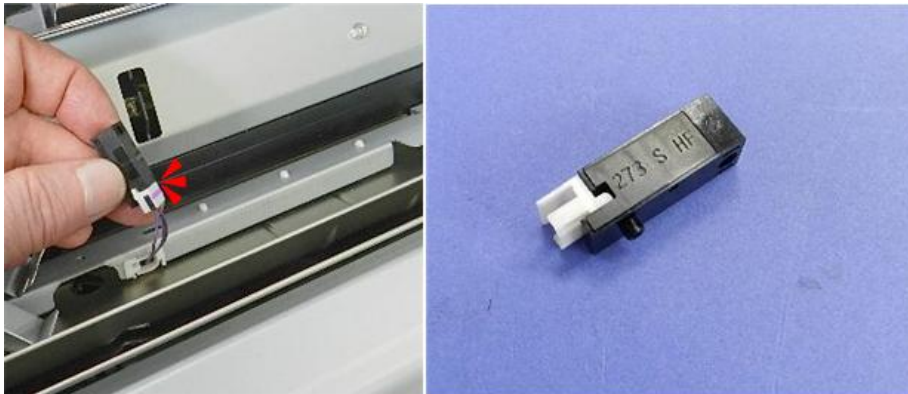
d7340125

2. Disconnect bracket [A] ( x1).
3. Disconnect harness, sensor [B] ( x1,  x1).



d7340126

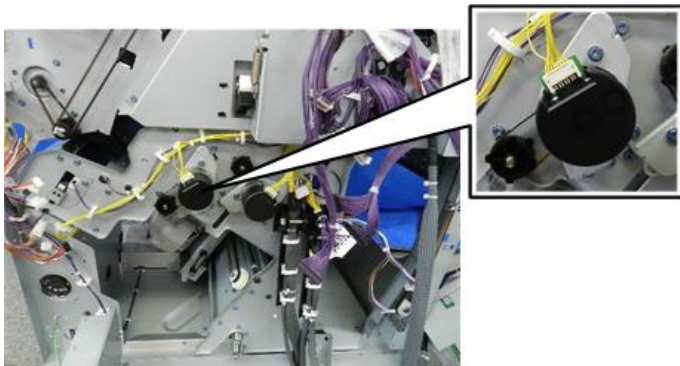
4. Remove sensor (📦 x1).



d7340127

Stapling Tray Entrance Motor

The stapling tray entrance motor is on the back of the stack/staple unit.



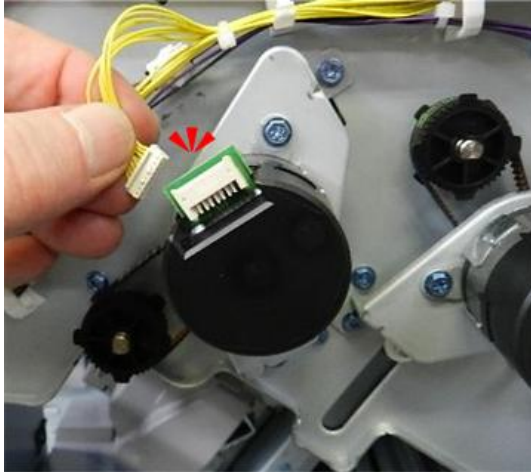
d7340128

Preparation

Remove:

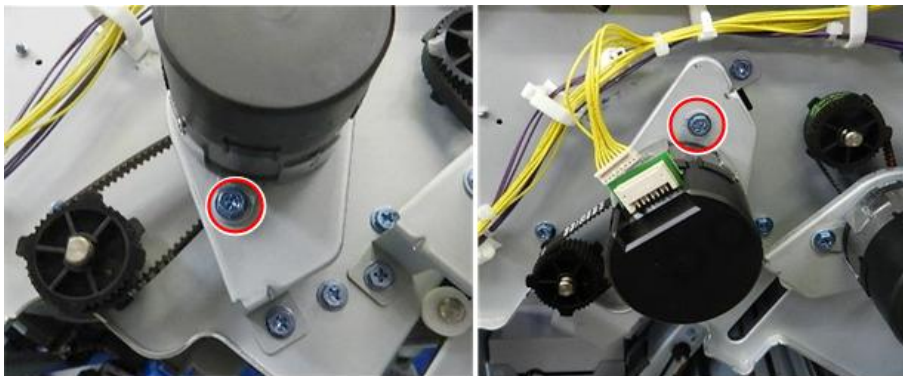
- Rear upper cover (page 15)
- Rear lower cover (page 16)
- Main board (page 159)

1. Disconnect the motor (🔌 x1).



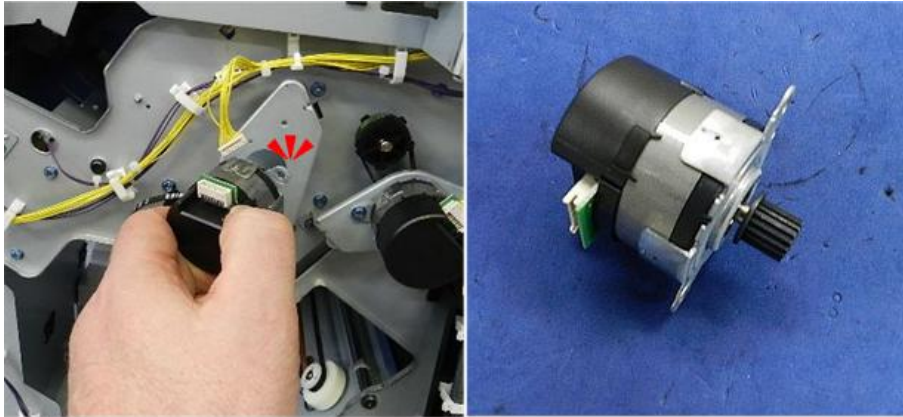
d7340129

2. Disconnect motor bracket (🔩 x2).



d7340130

3. Remove motor (🌀 x1).

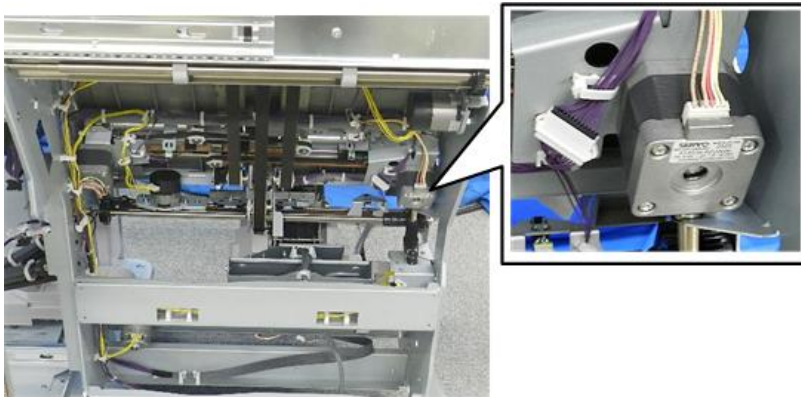


d7340131

Corner Stapler Side-to-Side Jogging

Front Jogger Fence Motor

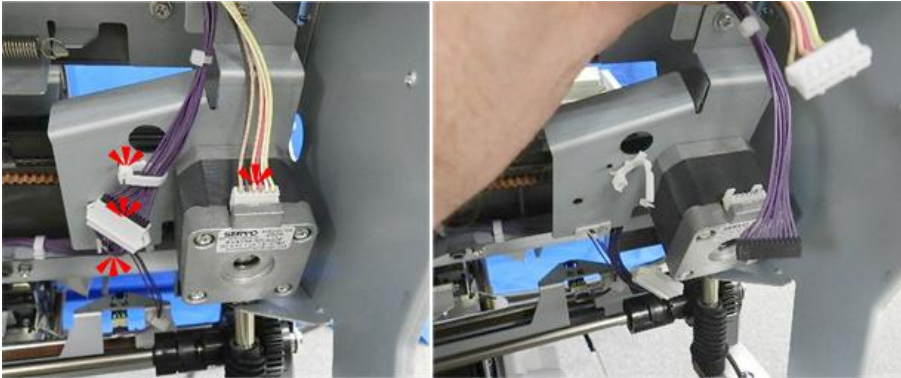
The front jogger fence motor is behind the front plate of the stack/staple unit.



d7340132

Preparation

- Remove booklet unit (page 29)
1. Disconnect bracket and motor (🔧 x2, 📦 x2).



d7340133

2. Disconnect bracket (🔩 x2).



d7340134

3. Remove bracket (with motor attached) (🔩 x1).



d7340135

4. Separate motor and bracket (🔩 x2).



d7340136

Jogger Fence HP Sensor (Front)

Preparation

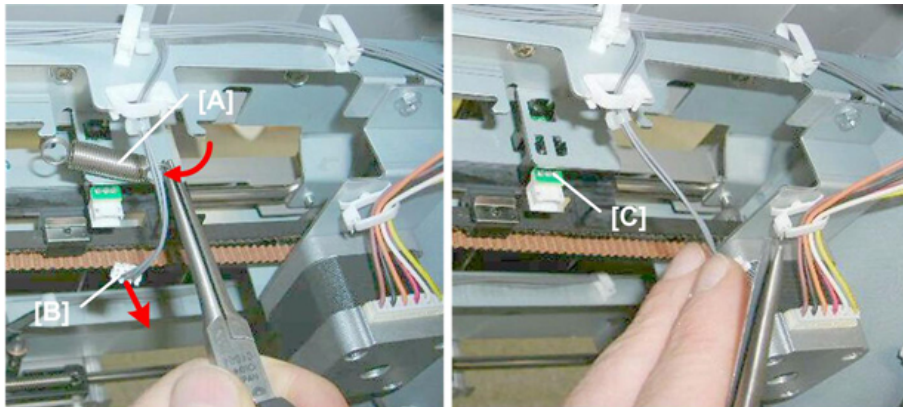
- Remove booklet unit (page 29)

1. Disconnect:

[A]  x1

[B]  x1

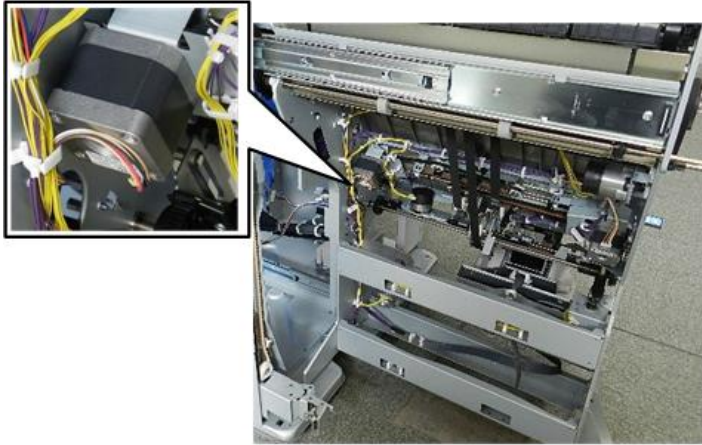
[C]  x5



d434r271

Rear Jogger Fence Motor

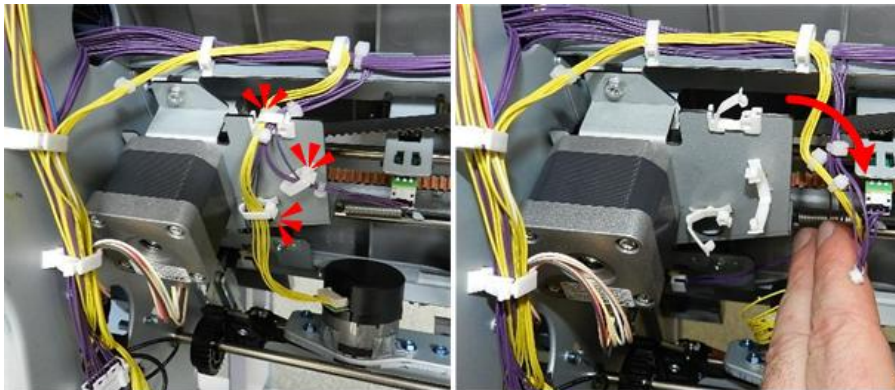
The rear jogger fence motor is mounted on the rear plate of the stack/staple unit.



d7340137

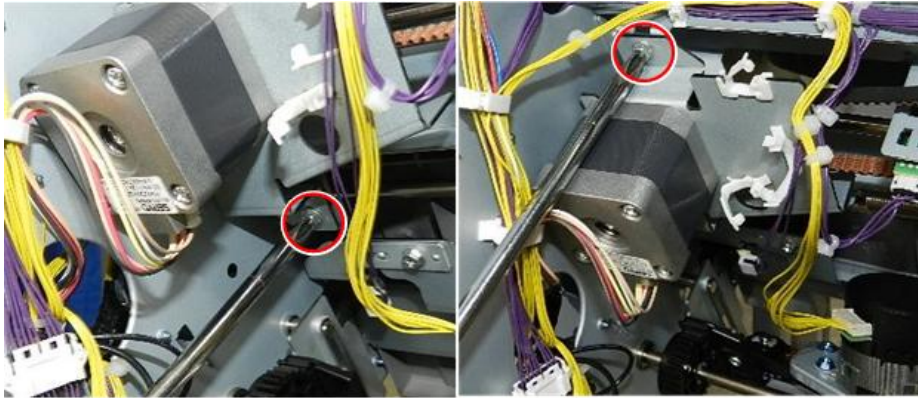
Preparation

- Remove booklet unit (page 29)
- 1. Move the harnesses (👉x3).



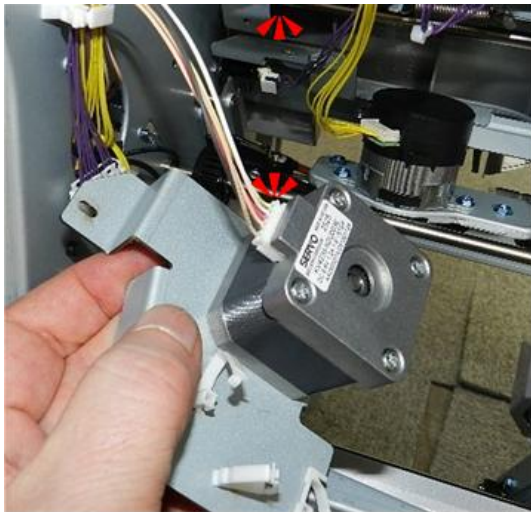
d7340138

- 2. Disconnect bracket (🔧x2).



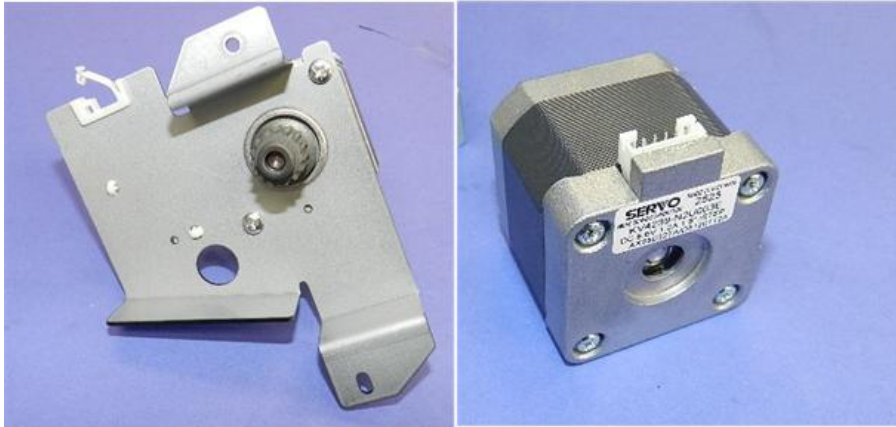
d7340139

3. Remove bracket (with motor attached), and then disconnect motor (🔧 x1, 🔌 x1).



d7340140





4. Separate motor and bracket (🔧 x2).

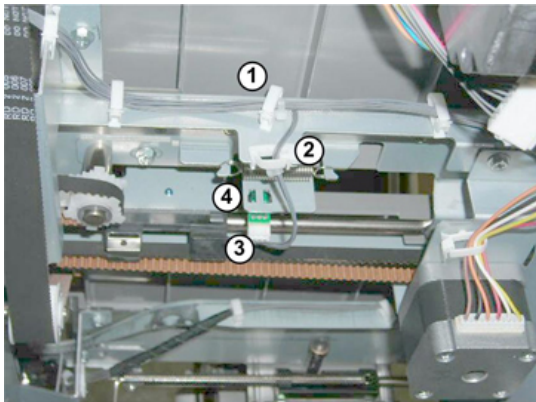


d7340141

Jogger Fence HP Sensor (Rear)

Preparation

- Remove booklet unit (page 29)
- 1. Disconnect and remove the sensor:
 - ①  x1
 - ②  x1
 - ③  x1
 - ④  x5



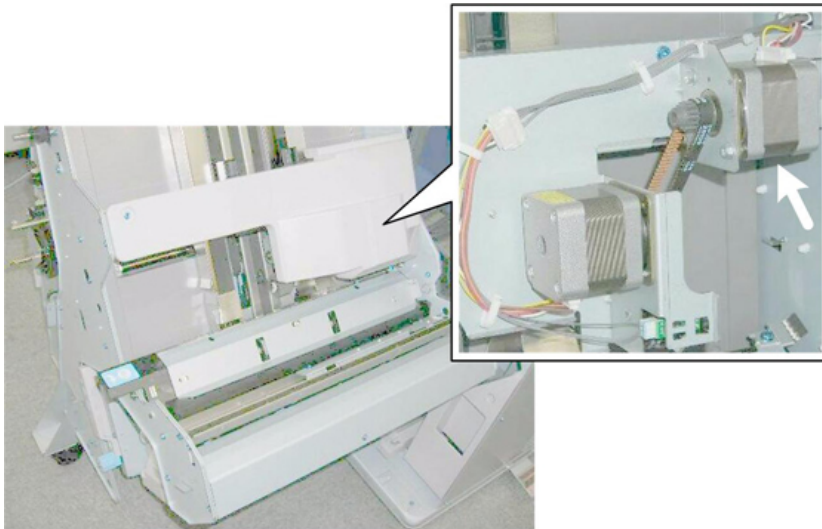
d434r276a

Corner Stapling Bottom, Top Jogging

1

Positioning Roller Rotation Motor

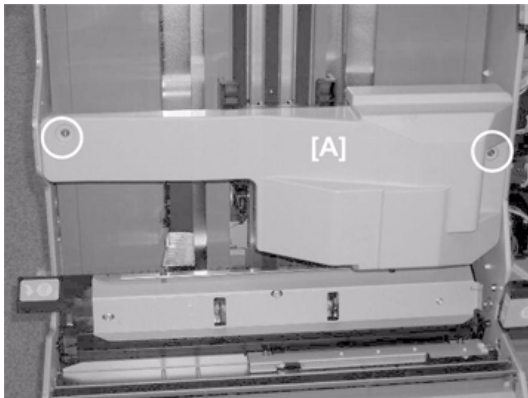
The positioning roller rotation motor is under the motor cover on the right side of the stack/staple unit.



d434r277

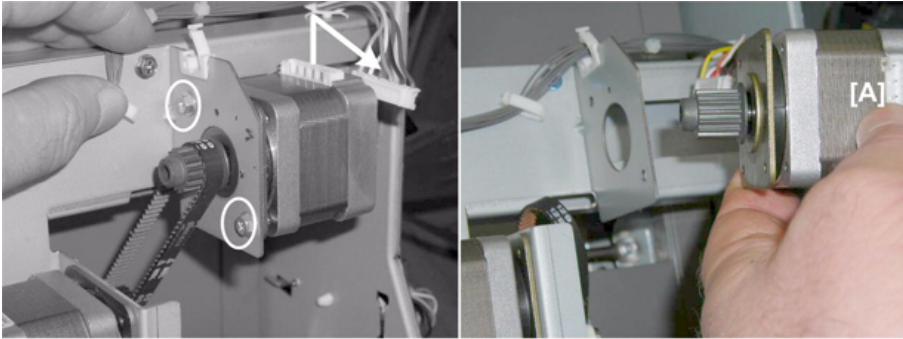
Preparation

- Open the front door.
 - Pull out the stack/staple unit with handle **Rb12**.
1. Remove motor cover [A] (🔩 x2)



d434r278

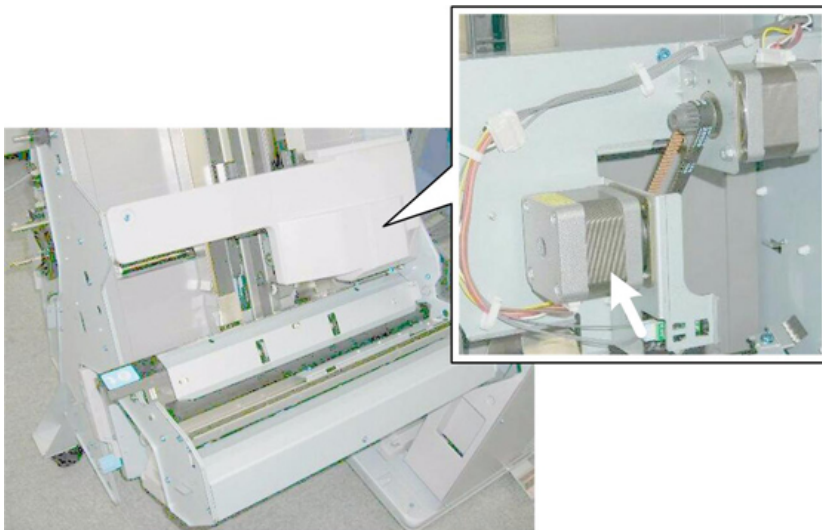
2. Remove motor [A] (🔩 x1, 📦 x1, 🔩 x2)



d434r279

Positioning Roller Motor

The positioning roller motor is under the motor cover on the right side of the stack/staple unit.

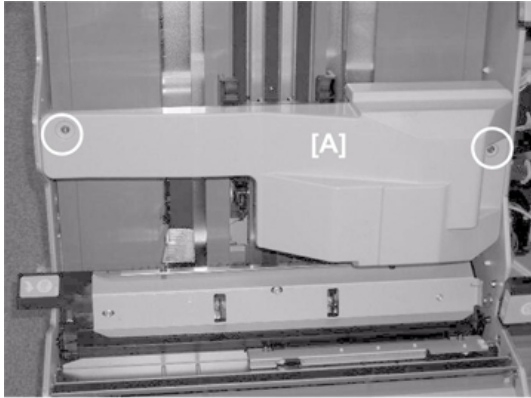


d434r280

Preparation

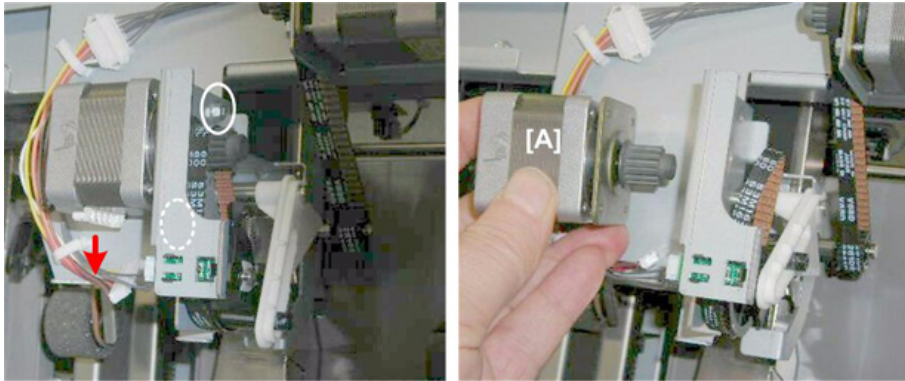
- Open the front door.
 - Pull out the stack/staple unit with handle **Rb12**.
 - Right panel (page 24)
1. Remove motor cover [A] (⊗ x2)

1



d434r281

2. Remove motor [A] (🔧 x1, ⚙️ x2, 🛠️ x1)

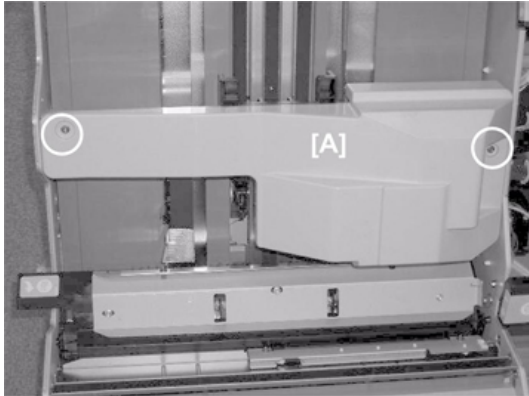


d434r282

Positioning Roller HP Sensor

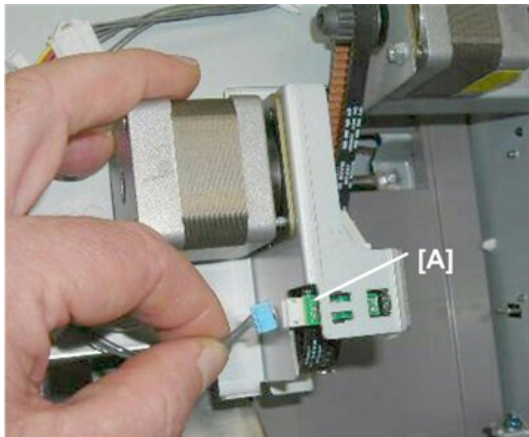
Preparation

- Open the front door.
 - Pull out the stack/staple unit with handle **Rb12**.
1. Remove motor cover [A] (🔧 x2).



d434r283

2. Remove sensor [A] (🔧 x1, ⚠️ x5)



d434r284

Leading Edge Stopper HP Sensor, Staple Tray Paper Sensor

Preparation

- Remove booklet unit (page 29)

★ Important

- The Leading edge stopper HP sensor shares the same bracket with the stack feed-out belt HP sensor. Use a marker to mark one of the harnesses to avoid incorrect connection at re-installation.

1. Disconnect bracket (🔧 x1, ⚠️ x1).



d7340502

2. Remove leading edge stopper HP sensor ① (📦 x1, ▼ x5).
3. Remove staple tray paper sensor ② (📦 x1, 📦 x1, ▼ x5).



d7340503

Top Fence HP Sensor

Preparation

- Remove booklet unit (page 29)
1. This sensor is in the center of the unit.





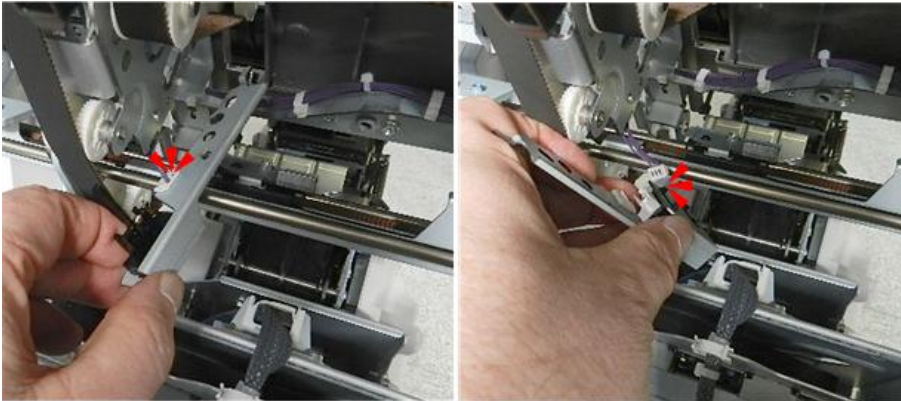
d7340142

2. Disconnect bracket ( x1).



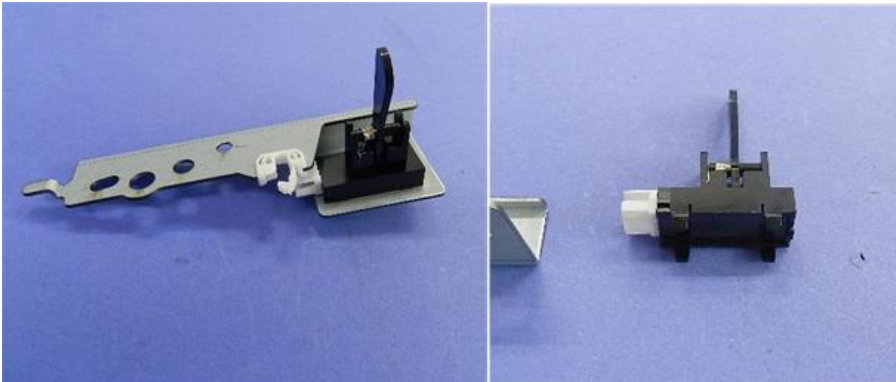
d7340145

3. Pull bracket away, and then disconnect harness ( x1,  x1).



d7340143

4. Separate bracket and sensor (⚠ x4).



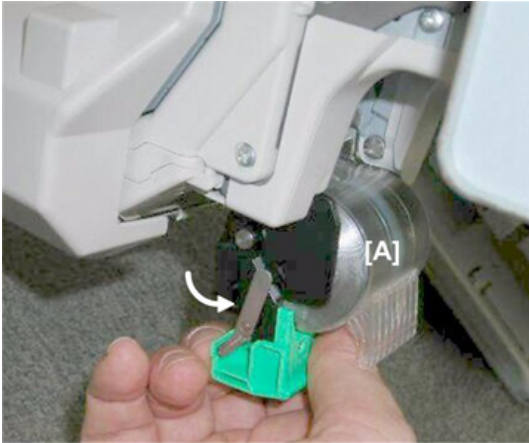
d7340144

Corner Stapling

Corner Stapler

Preparation

- Pull the stack/staple unit with handle **Rb12**.
- 1. Remove the stapler cartridge [A].



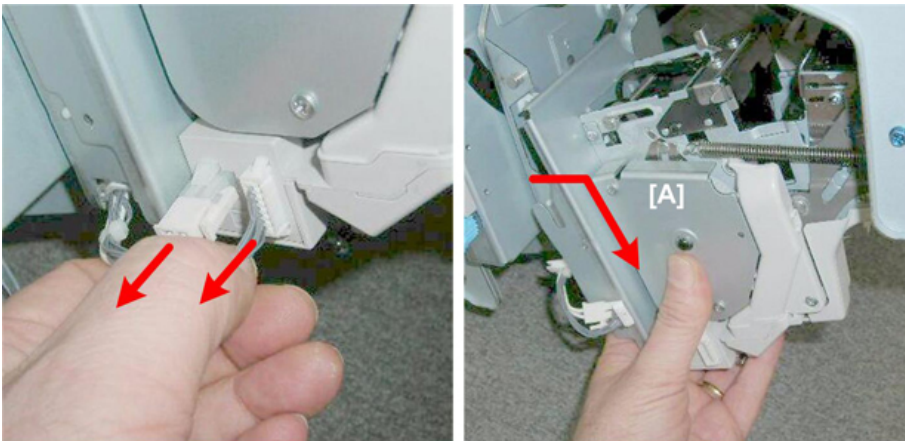
d434r316

2. Remove cover [A] (🔩 x2)



d434r317

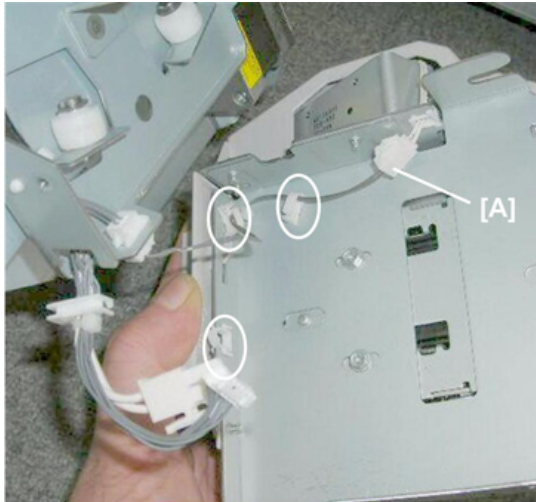
3. Disconnect the stapler [A] (📦 x2).



d434r318

4. Lift the stapler off its posts but **do not** pull it away because one harness is still attached inside the stapler.
5. Disconnect harness [A] (🔧 x3, 📦 x1)

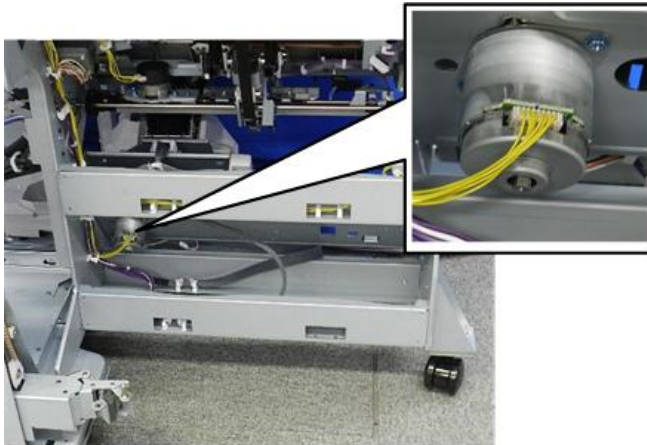
1



d434r319

Corner Stapler Movement Motor

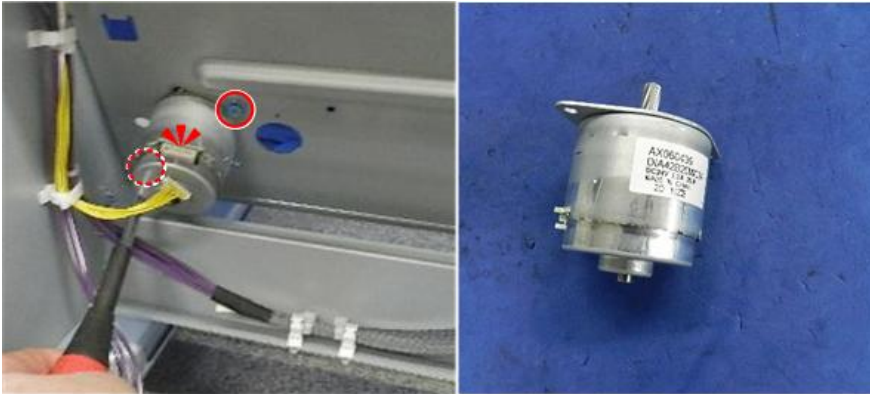
The corner stapler movement motor is at the bottom of the corner stapler unit.



d7340146

Preparation

- Remove booklet unit (page 29)
1. Remove motor (📦 x1, 🔧 x2).



d7340149


Re-installation


1. Re-attachment of the motor is difficult. Removal of this brace is recommended before you re-attach the motor.

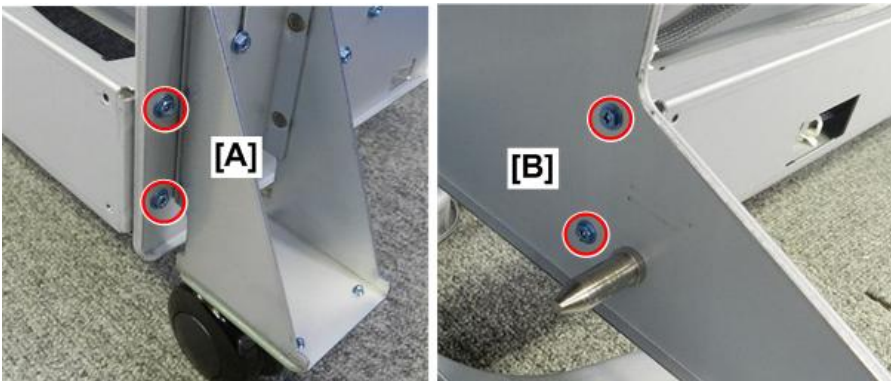


d7340147

2. Disconnect and remove bracket:

[A] Front ( x2)

[B] Rear ( x2)

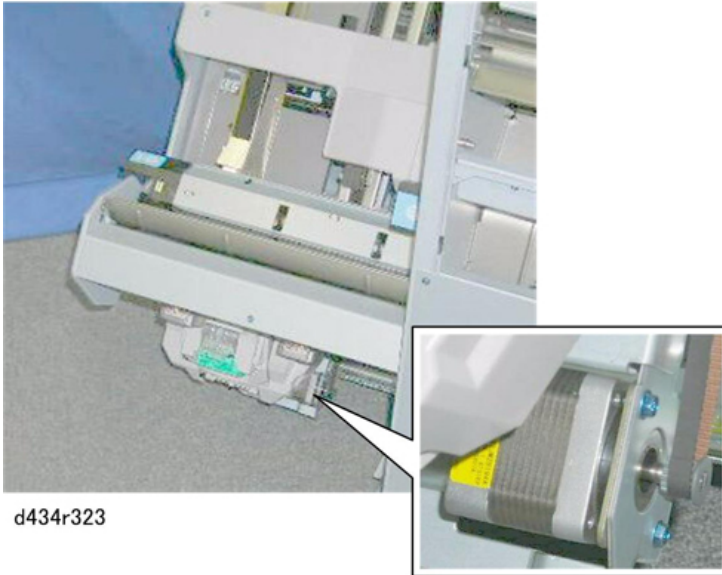


d7340148

Stapler Rotation Motor

You can see the stapler rotation motor on the bottom of the corner stapler unit next to the corner stapler.

1



d434r323

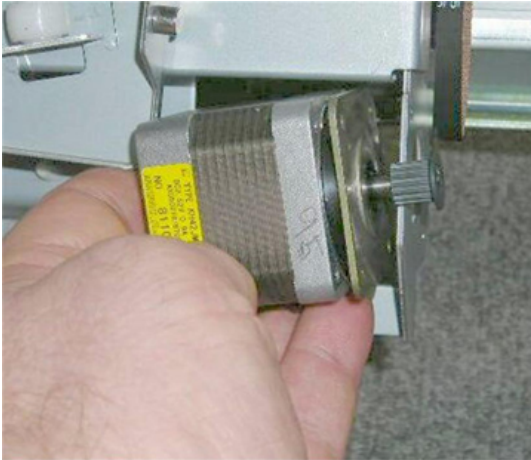
Preparation

- Open the front door.
 - Pull out the stack/staple unit with handle **Rb12**.
1. Disconnect the motor at [A] (🔌 x1).
 2. Disconnect the motor at [B] (🔩 x2, 🛠️ x1).



d434r324

3. Remove the motor.



d434r325

Staple Trimmings Hopper Full, Hopper Set Sensor

Preparation

- Open the front door.
- Pull out the stack/staple unit with handle **Rb12**.
- Rear upper cover (page 15)
- Rear lower cover (page 16)

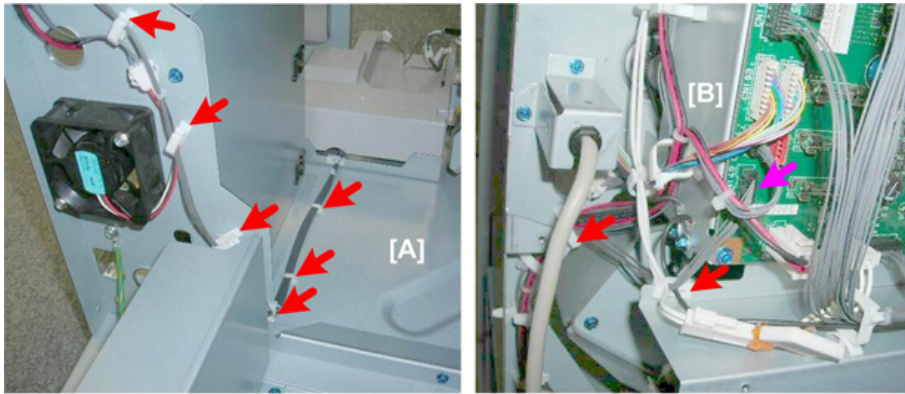
Trimmings Hopper Unit

1. Remove the staple trimmings hopper.



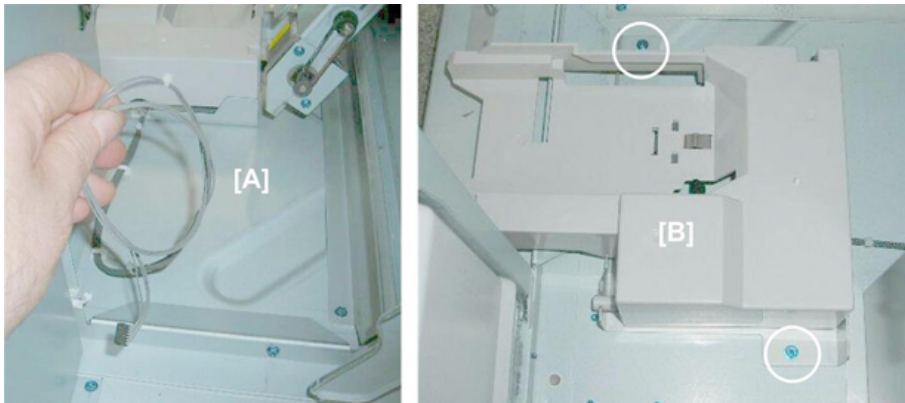
d434r326

2. Free the harness [A] and disconnect it from the main board [B] (🔌 x11, 📡 x1).



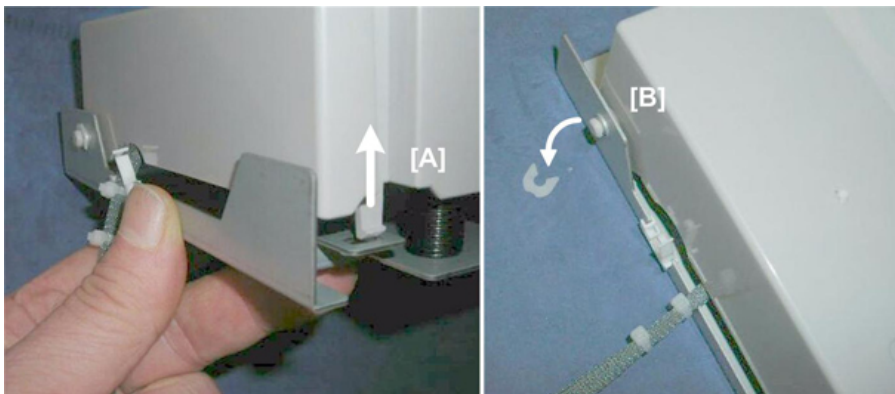
d434r327

3. Gather the disconnected harness [A].
4. Disconnect the trimmings collection unit [B] (⚙️ x2).



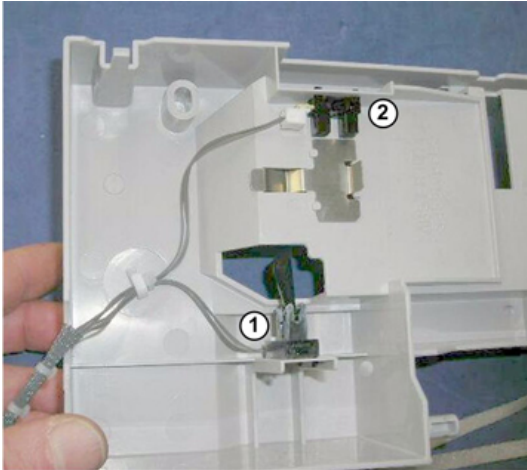
d434r328

5. Disconnect tab [A] (Tab x1, ⚙️ x2).
6. Release hinge shaft [B] (⚙️ x1).



d434r329

7. Open the unit.
8. Detach:
 - ① Hopper set sensor (▼ x5)
 - ② Hopper full sensor



d434r330

Stapler Movement Sensors

Common procedures

- Corner Stapler HP Sensor
- Corner Stapler Rotation HP Sensor (Rear)
- Corner Stapler Rotation HP Sensor (Front)

Preparation

- Pull out the stack/staple unit with handle **Rb12**.
 - Remove corner stapler (page 114)
1. Push the stapler to the rear [A].
 2. Remove the screw of the stapler guide rail [B] (🔩 x1).
 3. Push the guide rail [C] to the rear and remove it.



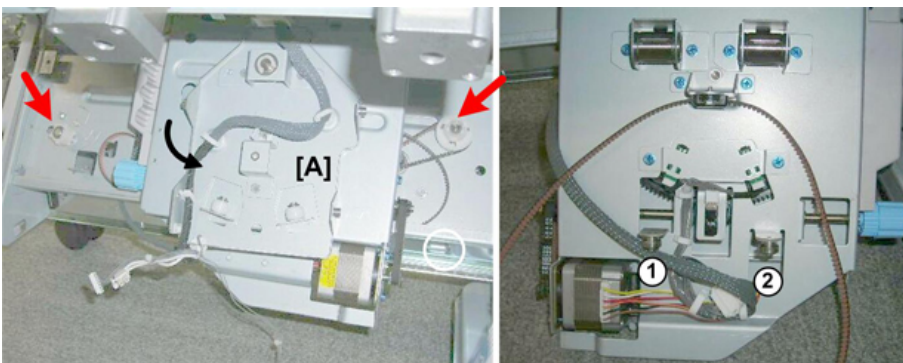
d434r331

4. Remove spring [A].
5. Loosen screw [B] (do not remove it).
6. Rotate the plate down to relieve tension on the belt.



d434r332

7. Disconnect the belt at the front and back.
8. Lift the stapler mount [A] off its rails and turn it toward the rear so you can see the back of the mount. The mount is on two steel rollers ① and ② that rest on the bottom rail of the corner stapler unit.

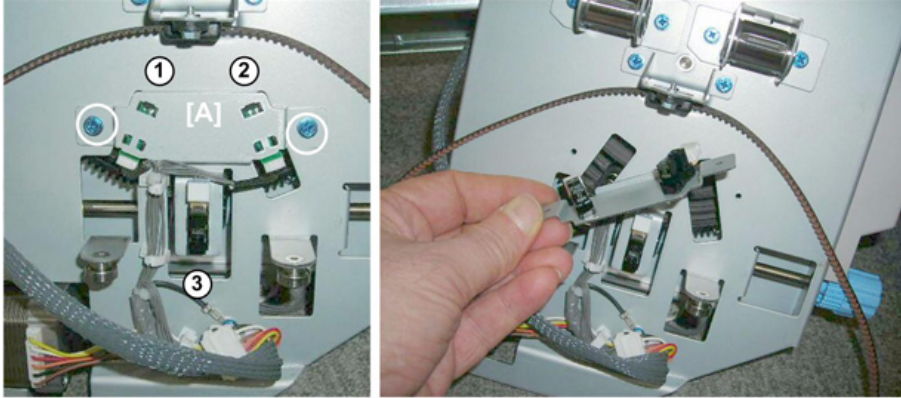


d434r333

9. Remove sensor bracket [A] (🔩 x2).

Three sensors are on this bracket:

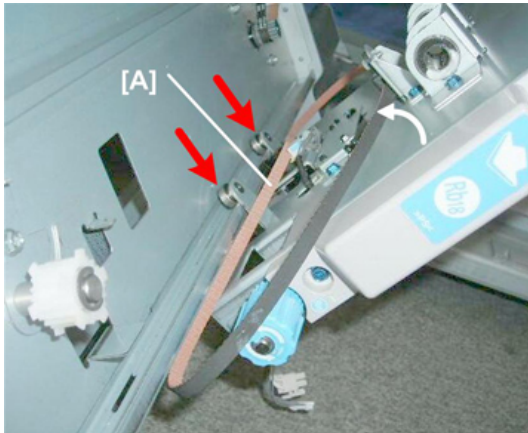
- ① Rotation HP sensor (rear) (📦 x1, 🏹 x5)
- ② Rotation HP sensor (front) (📦 x1, 🏹 x5)
- ③ Stapler HP sensor (📦 x1, 🏹 x5)



d434r334

Re-installation

1. When you set the stapler mount on its rails, make sure the belt [A] is not tangled and above the two rollers.



d434r335

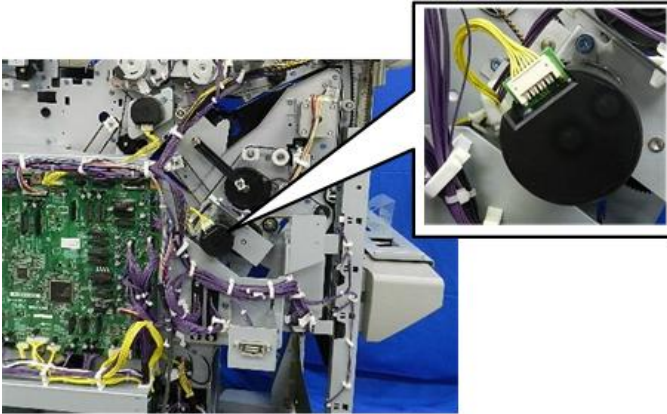
Corner Stapled Stack Feed Out

1

Stack Transport Motor

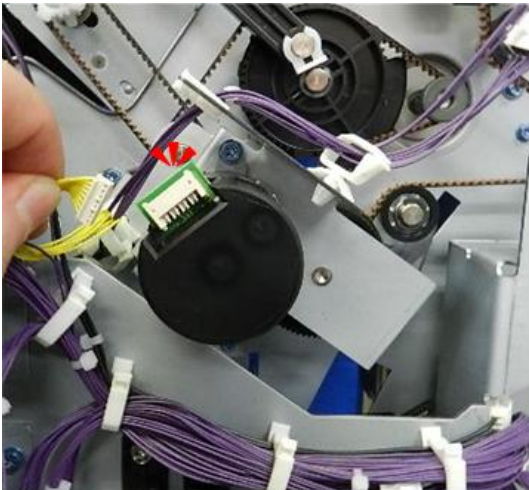
Preparation

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
1. The motor is located near the right edge of the main board.



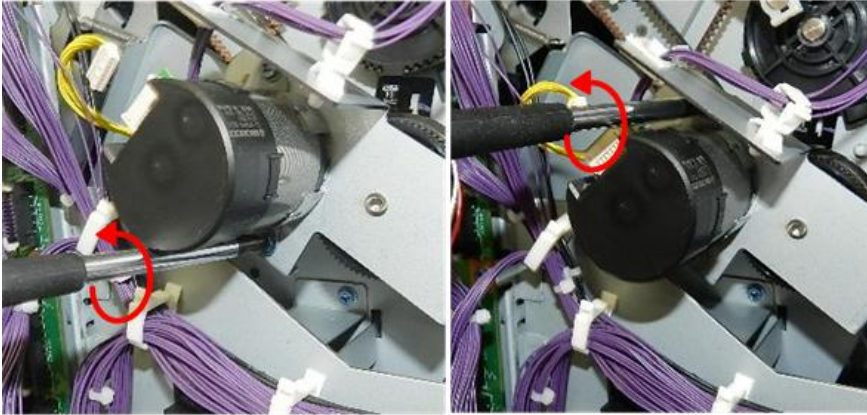
d7340150

2. Disconnect motor (🔌 x1).



d7340151

3. Disconnect motor (🔌 x2).



d7340152

4. Remove motor (🔩 x1).

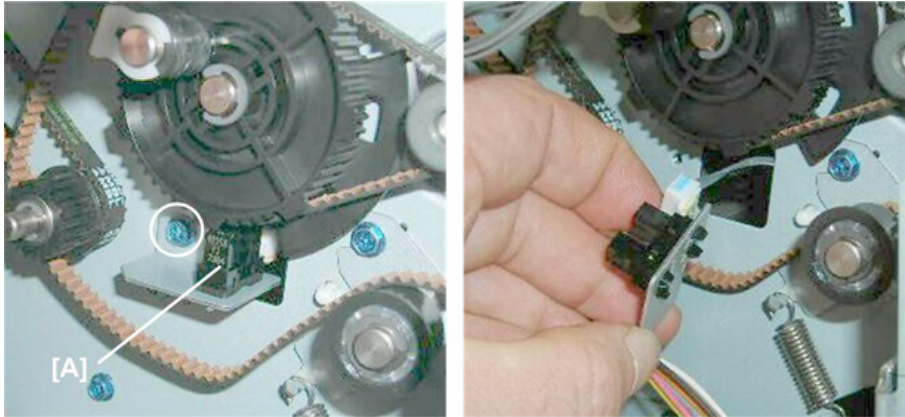


d7340153

Stack Transport Unit HP Sensor

Preparation

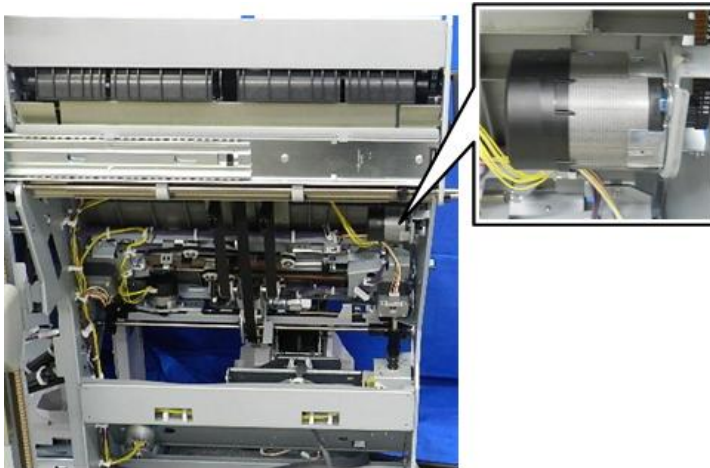
- Rear upper cover (page 15)
 - Stack transport motor (page 124)
1. Remove sensor bracket and sensor [A] (🔩 x1).
 2. Remove the sensor (📦 x1, ▼ x5)



d434r336

Stack Feed-Out Belt Motor

The stack feed-out belt motor is behind the front plate of the corner stack/staple unit.





d7340154

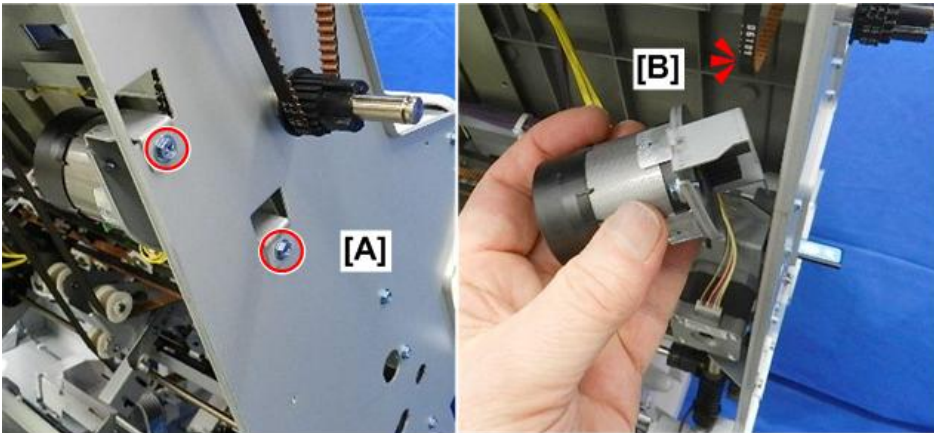
Preparation

- Booklet unit (page 29)
- 1. Disconnect motor (📦 x1).




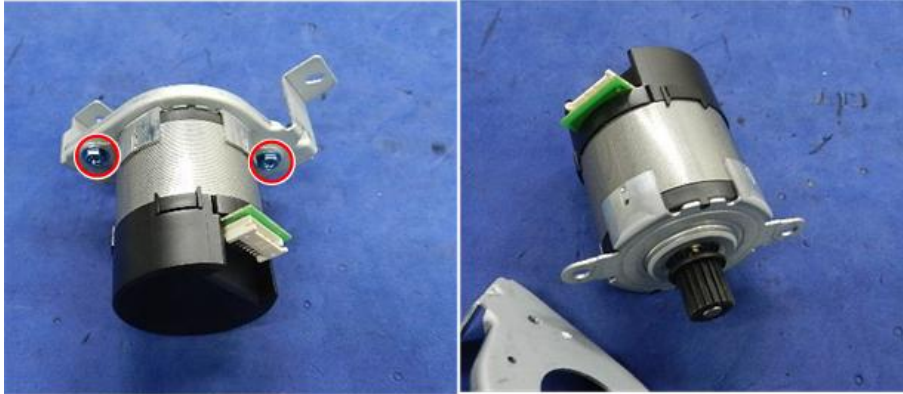
d7340155

2. At front [A] disconnect bracket ( x2).
3. Remove bracket (with motor attached) from rear [B] ( x1).



d7340156

4. Separate motor and bracket ( x2).

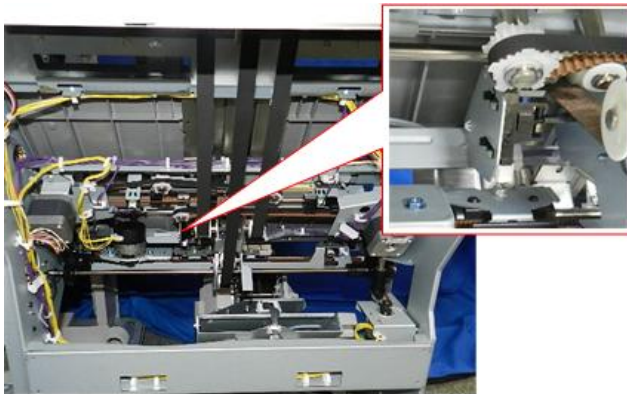


d7340157

Stack Feed-Out Belt HP Sensor

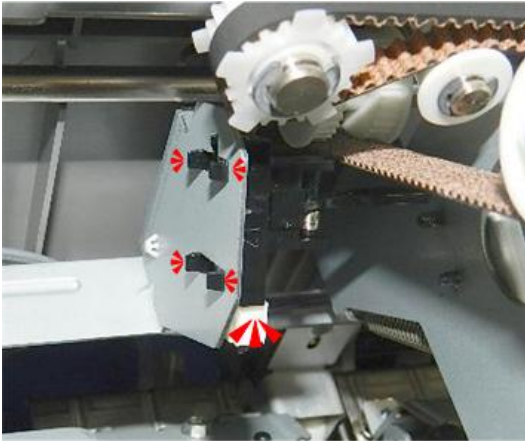
Preparation

- Remove booklet unit (page 29)
1. The sensor is to the left of the three belts.



d7340158

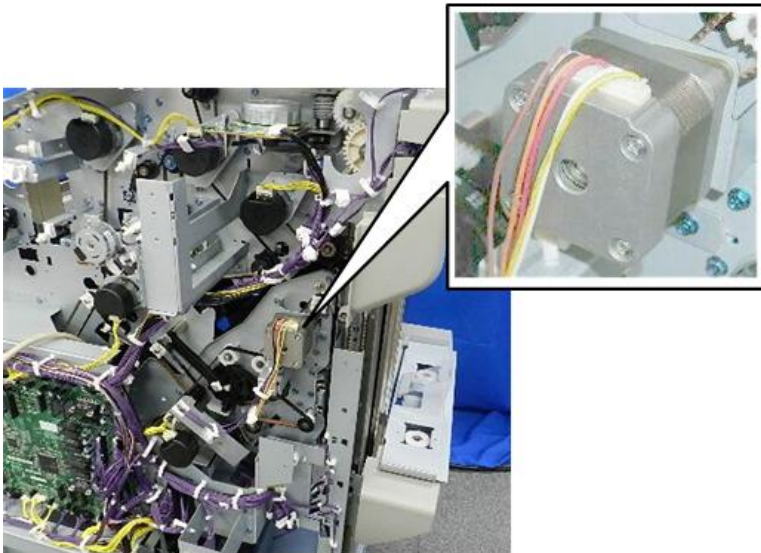
2. Disconnect and remove sensor (⚙️ x4, 📦 x1).



d7340159

Stack Junction Gate Motor

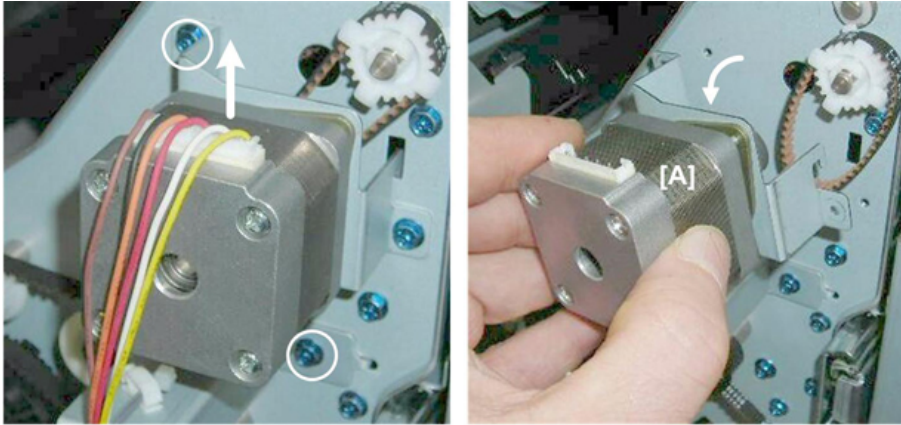
The stack junction gate motor is on the back of the finisher.



d7340160

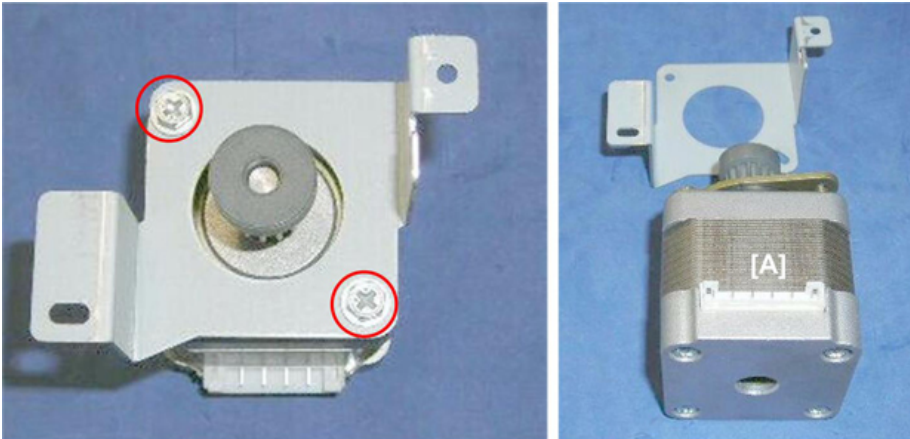
Preparation

- Rear upper cover (page 15)
1. Remove motor [A] (📦 x1, 🛠️ x2).



d434r341

2. Separate the bracket and motor [A] (⚙️ x2).

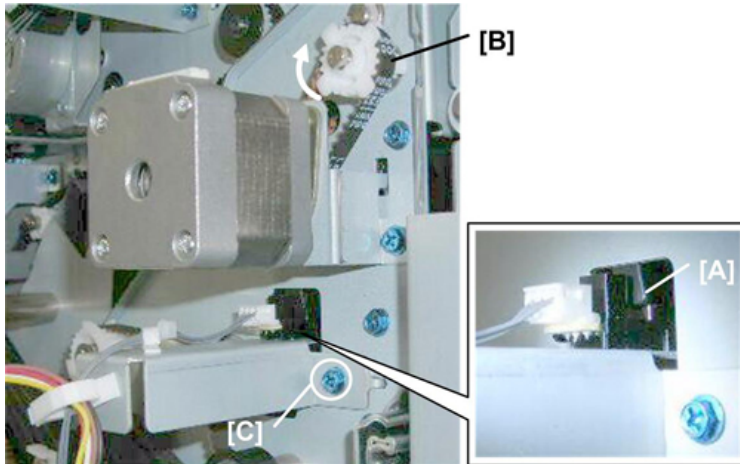


d434r342

Stack JG HP Sensor

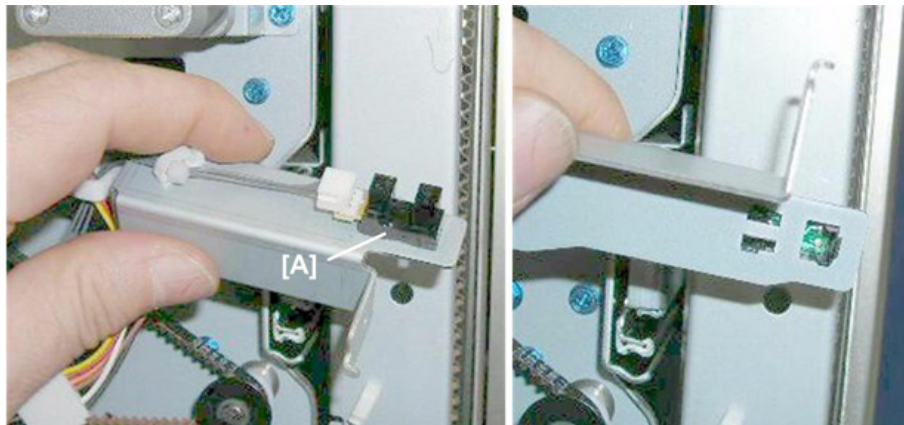
Preparation

- Rear upper cover (page 15)
1. If the actuator [A] is in the gap of the sensor, rotate gear and belt [B] until the actuator is out of the gap.
 2. Remove sensor bracket [C] (⚙️ x1).



d434r343

3. Remove sensor [A] (📦 x1, 🔧 x5).

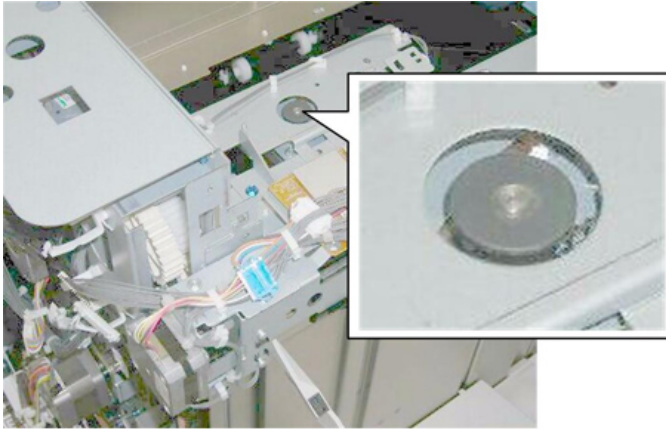


d434r344

Corner Stapled Stack Exit to Shift Tray

Exit Guide Motor

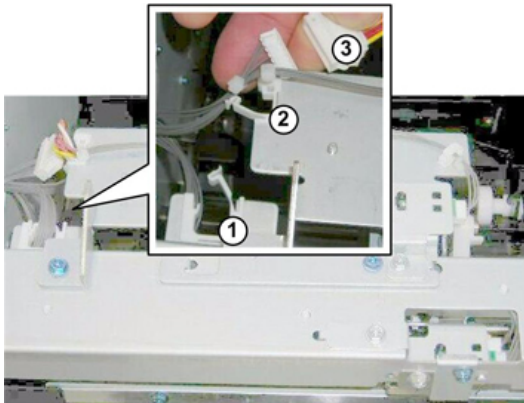
The exit guide motor assembly is at the left rear corner of the finisher.



d434r345

Preparation

- Proof tray (page 20)
1. Disconnect the harnesses (🔌 x2, 📦 x1).



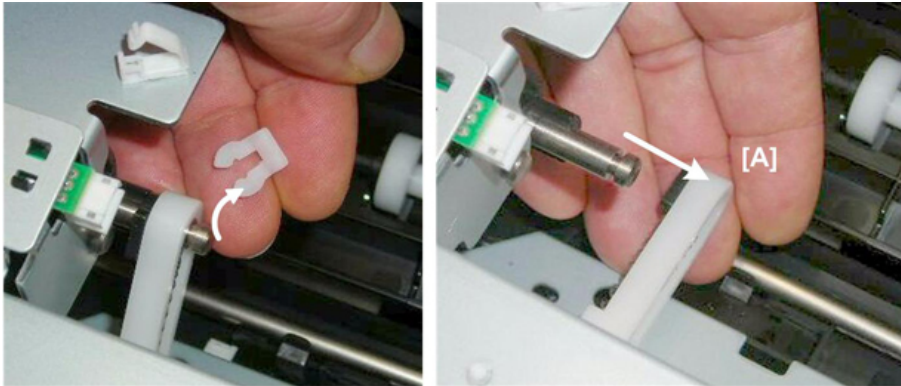
d434r346

2. Disconnect sensor harness [A] (🔌 x3, 📦 x1)



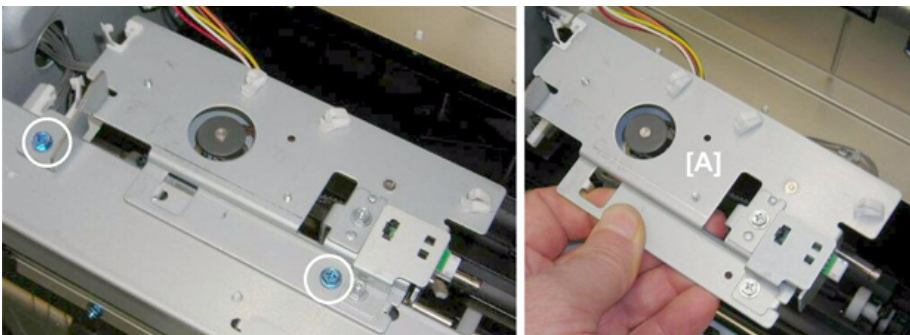
d434r347

3. Disconnect and remove rocker arm [A] (🔧 x1).



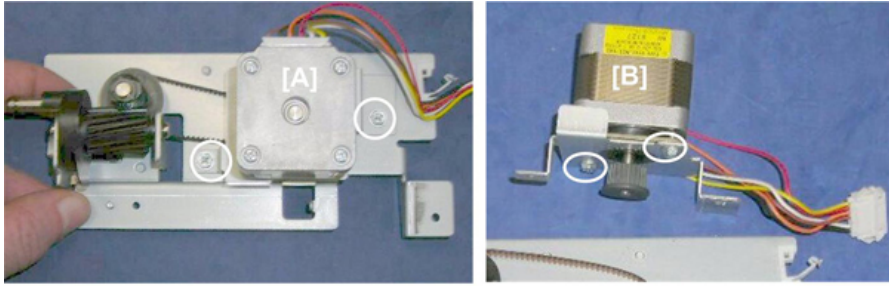
d434r348

4. Remove the exit guide plate assembly [A] (🔧 x2).



d434r349

5. Disconnect motor [A] (🔧 x2, 🛠️ x1)
 6. Separate the motor [B] and bracket (🔧 x2).

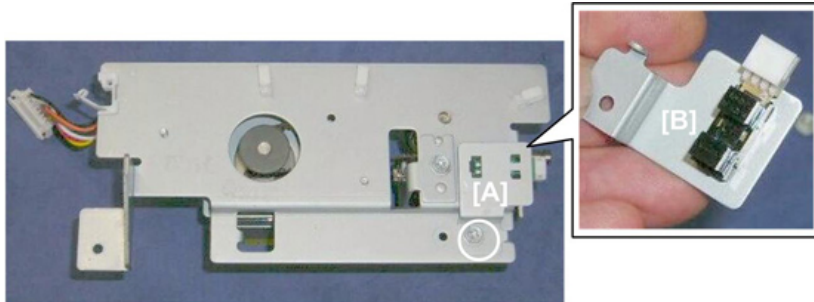


d434r350

Exit Guide HP Sensor

Preparation

- Proof tray (page 20)
1. Remove the exit guide motor assembly (see the previous procedure)
 2. Remove sensor bracket [A] (🔩 x1, 📦 x1)
 3. Remove sensor [B] (🔩 x5).



d434r351

Booklet Unit

Booklet Stapler

1

Preparation

- Remove booklet unit (page 29)

↓ Note

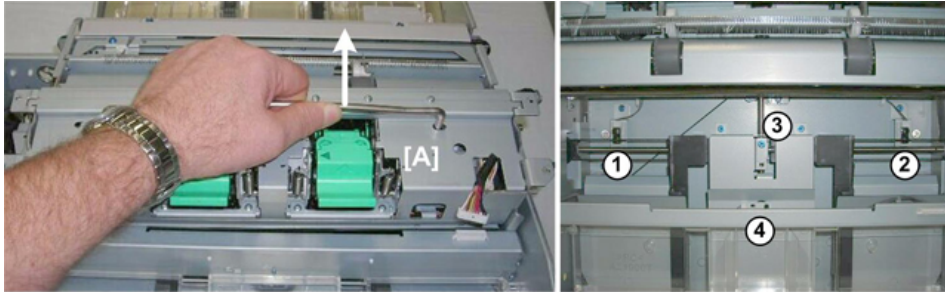
- This procedure describes removal of the booklet stapler after the booklet unit has been removed.
- Actually, the booklet stapler can be easily removed before removing the booklet unit.
- Removing the booklet stapler from the booklet stapler unit is recommended. This makes the booklet unit lighter and easier to handle.

- Remove cover [A] (🔩 x2).
- Remove the stapler unit [B] (🔩 x4, 🗑️ x1)



d434r352

- Lift the stapler unit [A] out with its handle.
- Four sensors are behind the stapler unit:
 - Rear jogger fence HP sensor
 - Front jogger fence HP sensor
 - Bottom fence HP sensor
 - Folder unit entrance sensor



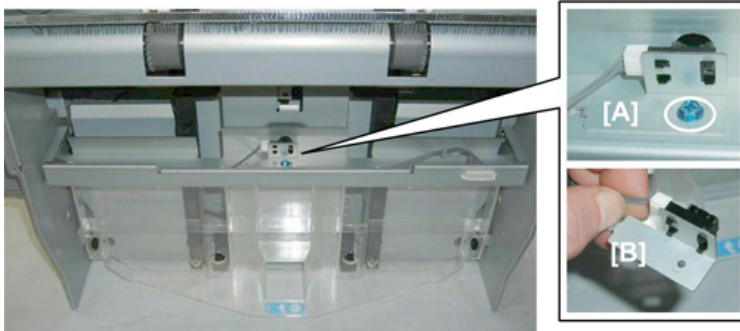
d434r353

Booklet Unit Transport, Entrance

Fold Unit Entrance Sensor

Preparation

- Booklet unit (page 29)
 - Booklet stapler (page 28)
1. Remove sensor bracket [A] (🔑 x1).
 2. Remove sensor [B] (📦 x1, ▼ x5)

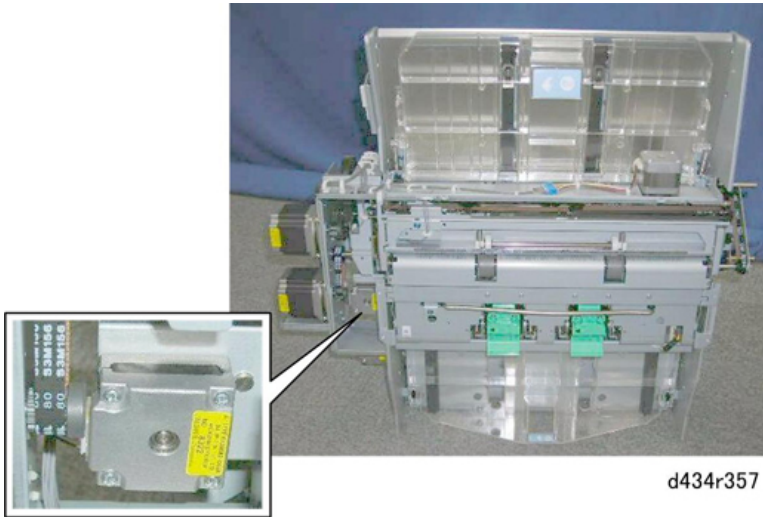


d434r354

Booklet Side-to-Side Jogging

Booklet Stapler Side Fence Motor

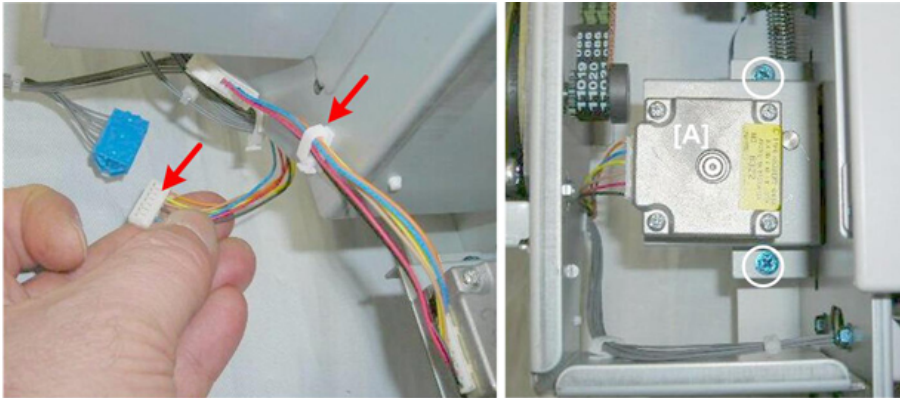
The booklet stapler side fence motor is on the back of the booklet unit.



d434r357

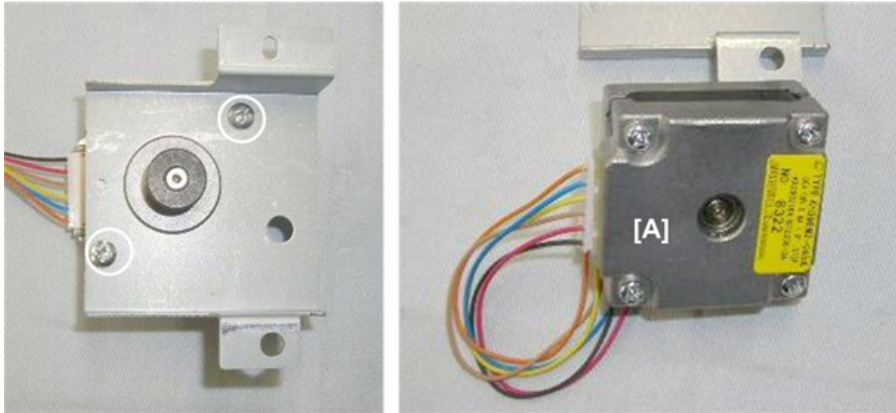
Preparation

- Booklet unit (page 29)
1. Remove motor [A] (🔧 x1, 📏 x1, 🛠️ x2)



d434r358

2. Separate motor [A] from the bracket (🔧 x2).



d434r359

Booklet Stapler Side Fence HP Sensor (Front)

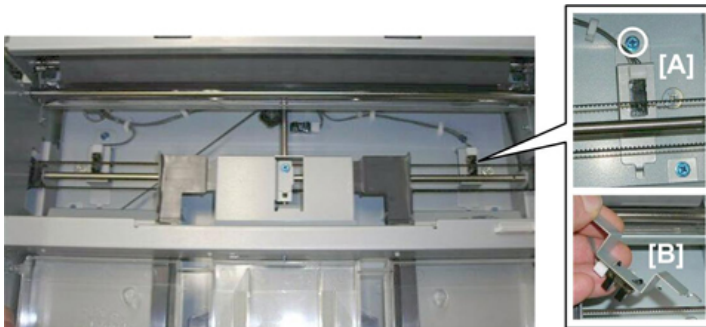
Preparation

- Booklet unit page 29)
- Booklet stapler (page 28)

1. Remove:

[A] Sensor bracket (🔧 x1)

[B] Sensor (📦 x1, ▼ x5)



d434r360

Booklet Stapler Jogger HP Sensor (Rear)

Preparation

- Booklet unit (page 29)
- Booklet stapler (page 28)

1. Remove:

[A] Sensor bracket (🔩 x1)

[B] Sensor (📦 x1, ▼ x5)



d434r361

Booklet Bottom, Top Jogging

Booklet Stapler Bottom Fence Motor

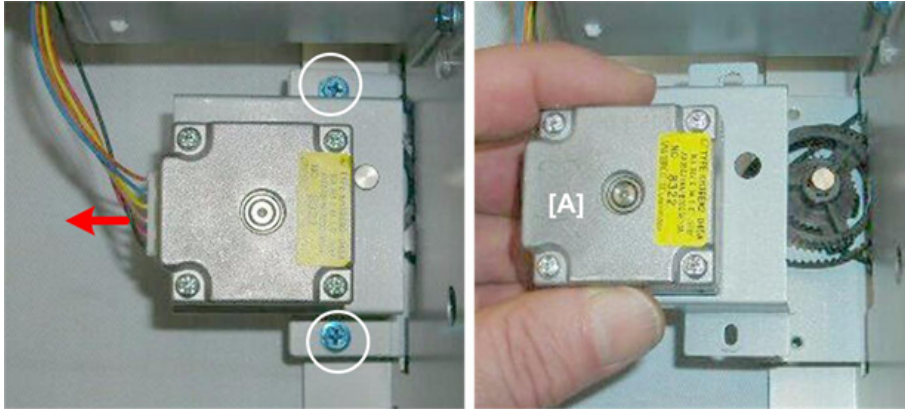
The booklet stapler bottom fence motor is on the back of the booklet unit.



d434r362

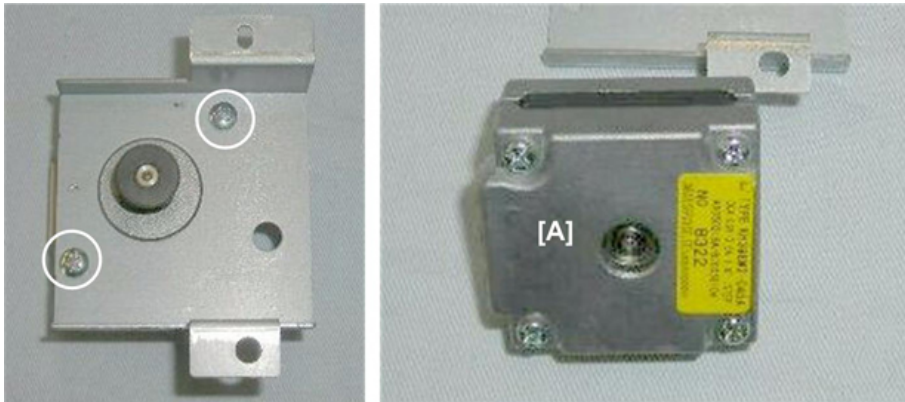
Preparation

- Booklet unit (page 29)
1. Remove motor [A] (🔩 x2, 📦 x1).



d434r363

2. Separate the motor [A] from the bracket (⊗ x2).

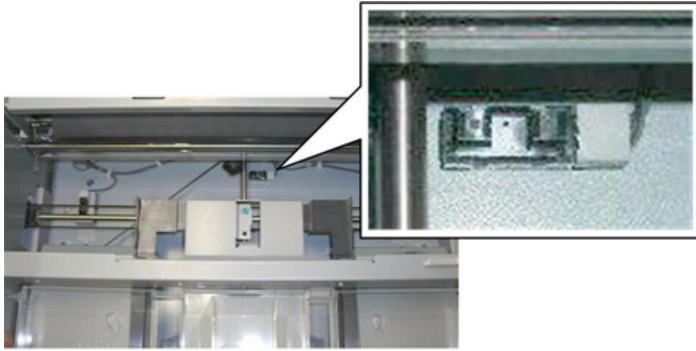


d434r364

Booklet Stapler Bottom Fence HP Sensor

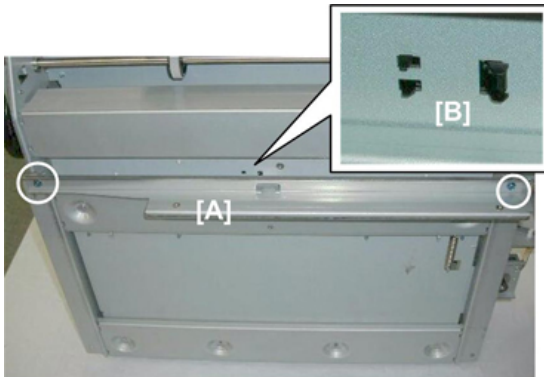
Preparation

- Booklet unit (page 29)
 - Booklet stapler (page 28)
1. The bottom fence HP sensor is fastened to the right plate of the booklet unit.



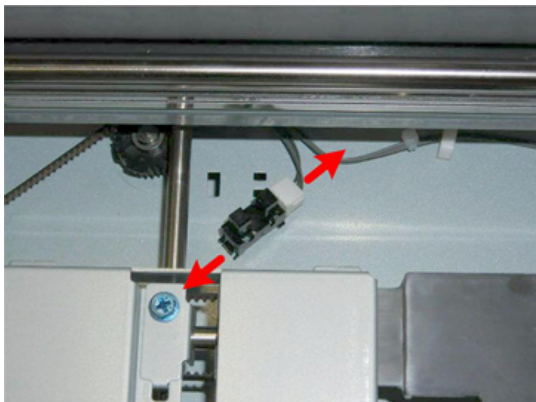
d434r365

2. On the right side, remove brace [A] so that you can see the sensor pawls (🔩 x2).
3. Release the pawls [B] and push them through the plate (▼ x5).



d434r366

4. Disconnect the sensor (🔌 x1).

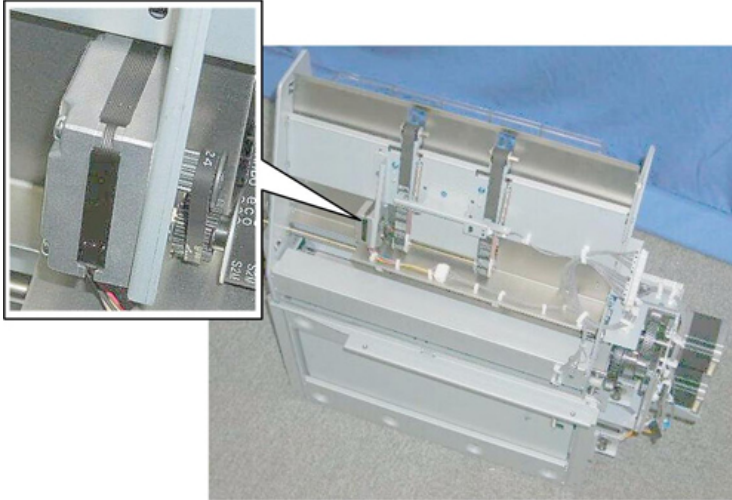


d434r367

Booklet Stapler Top Fence Motor

The top fence motor and sensor are on top of the booklet unit.

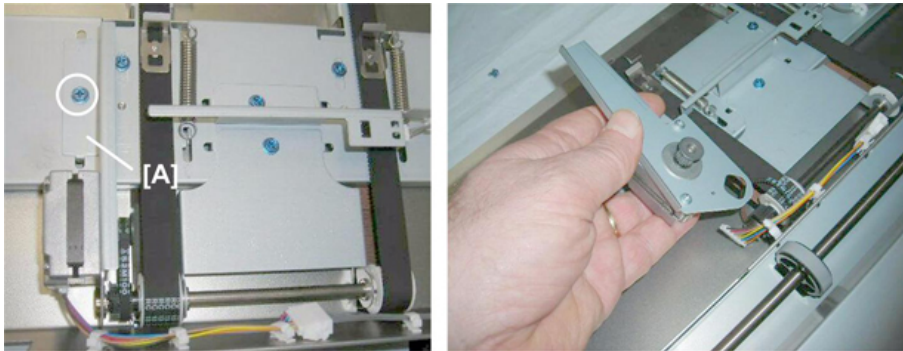
1



d434r368

Preparation

- Booklet unit (page 29)
1. Remove sensor bracket [A] (🔩 x1, 📦 x1)



d434r369

2. Separate motor [A] from the bracket (🔩 x2)

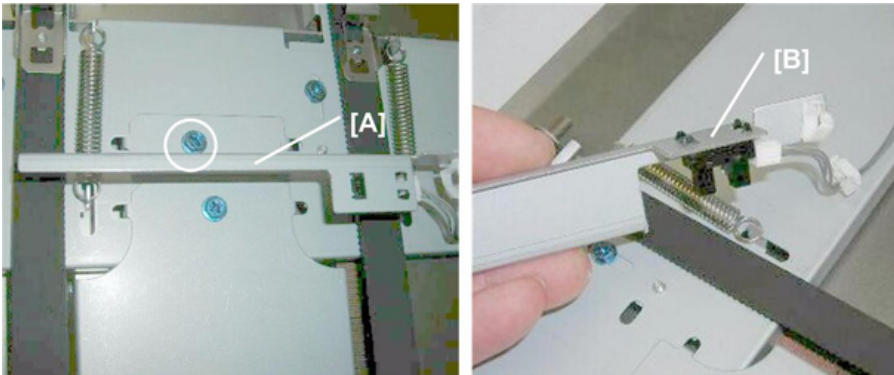


d434r370

Booklet Top Fence HP Sensor

Preparation

- Booklet unit (page 29)
1. Remove sensor bracket [A] (🔩 x1).
 2. Remove sensor [B] (🔧 x1, 📦 x1, ▼ x5)

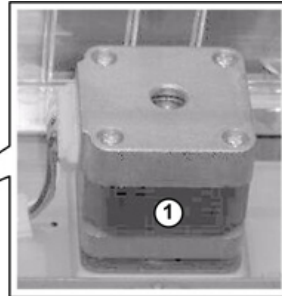
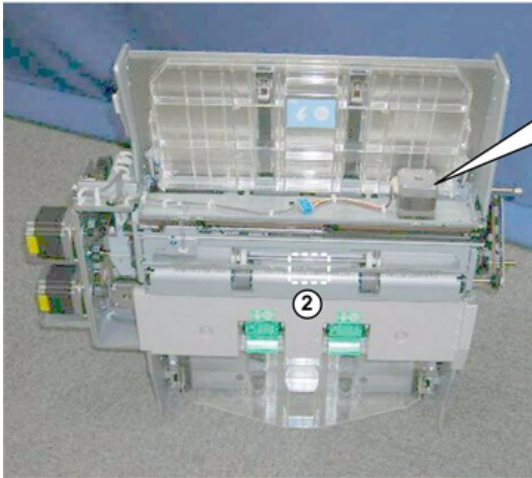


d434r371

Booklet Press for Stapling

Booklet Stapler Clamp Roller Motor, Booklet Stapler Exit Sensor

The booklet stapler clamp roller motor ① and booklet stapler exit sensor ② cannot be removed until the motor base has been removed.



d434r372

Preparation

- Booklet unit (page 29)

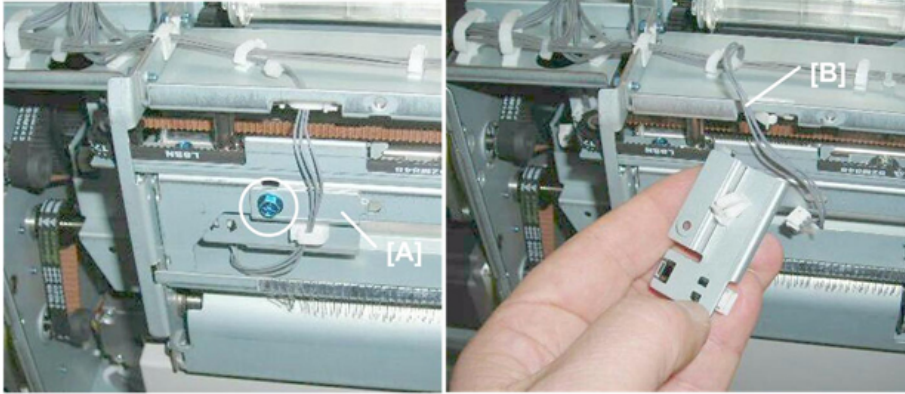
Motor Base Plate

1. Remove cover [A] (🔩 x2).



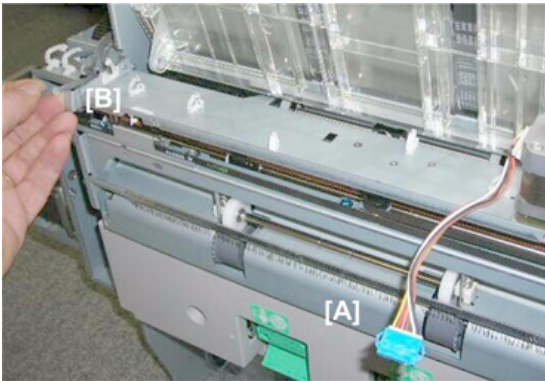
d434r373

2. Disconnect sensor bracket [A] and harness [B] (🔩 x1, 🛠️ x2, 📦 x1).



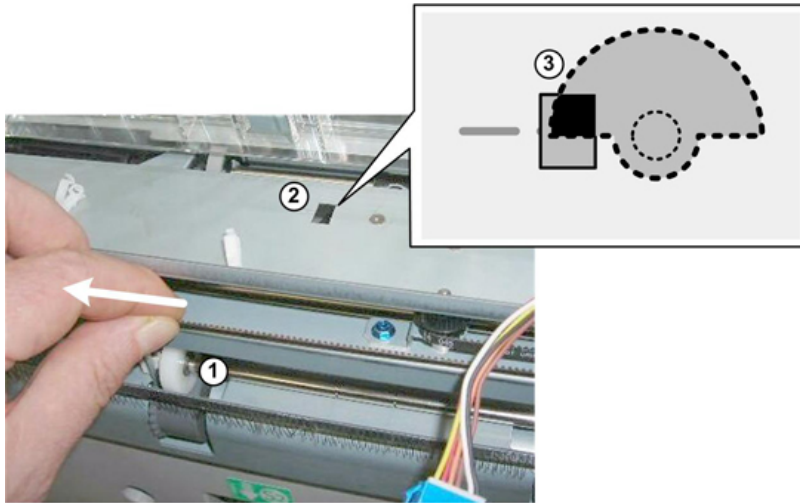
d434r374

3. Disconnect motor harness [A] (🔧 x6, 📦 x1).



d434r375

4. Pull belt ① until you can see through the hole ② that the edge of the actuator ③ below the hole is aligned as shown.
- The edge of the actuator and the line on the left side of the hole must be aligned.
 - This releases the clamp roller so that there is no pressure on the base plate.

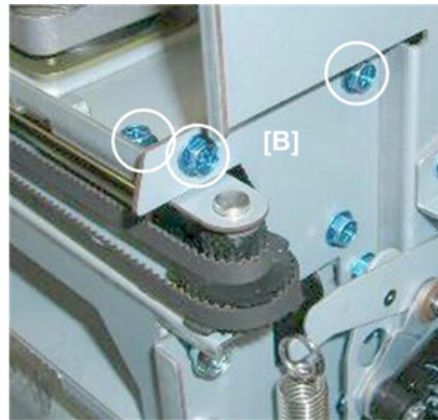
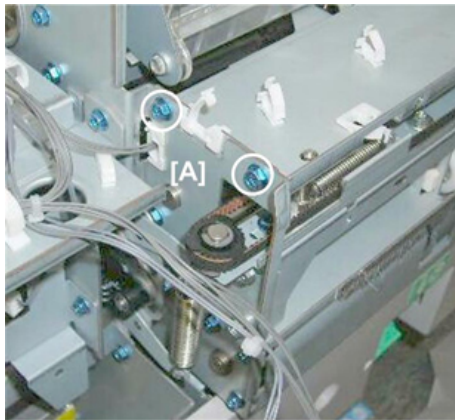


d434r376

5. Remove:

[A] Rear (🔩 x2)

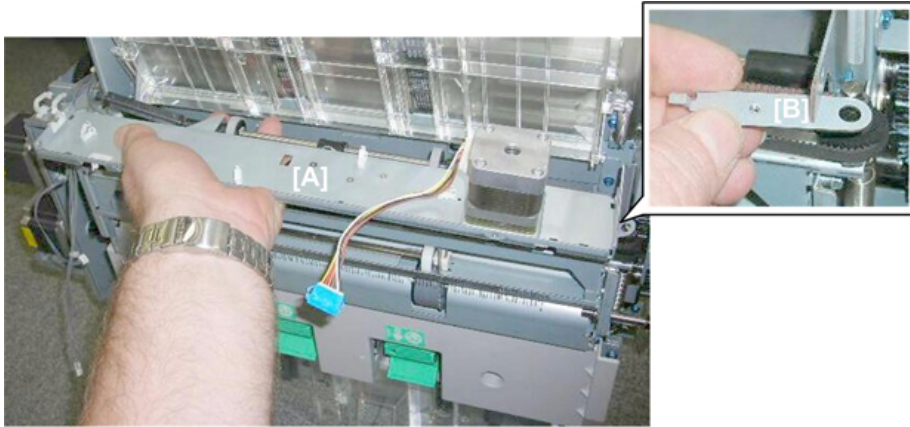
[B] Front (🔩 x3)



d434r377

6. Remove base plate [A].

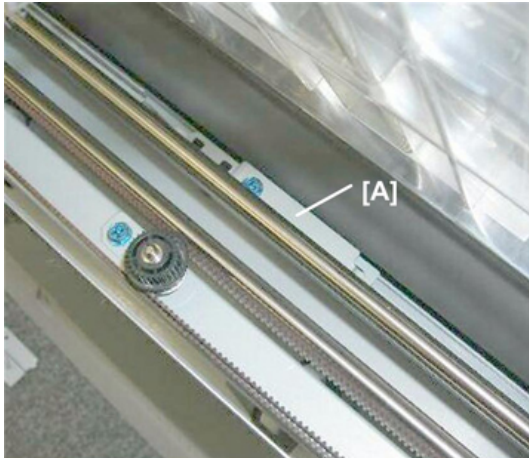
7. Remove end-piece [B].



d434r378

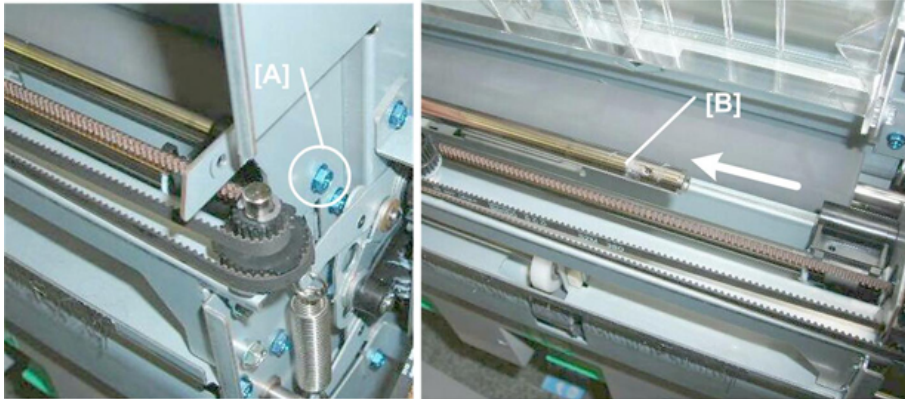
Exit Sensor

A guide shaft blocks access to the exit sensor bracket [A].



d434r379

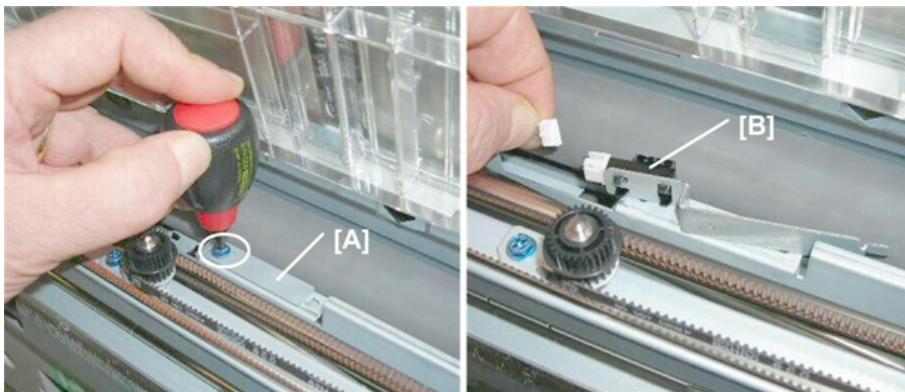
8. Remove guide shaft screw [A] (Ⓜ x1).
9. Rotate then slide the guide shaft [B] to the rear until you have enough space to remove the bracket screw. (The guide does not need to be removed.)



d434r380

10. Use a short screwdriver to remove the exit sensor bracket [A] (🔩 x1).

11. Disconnect the exit sensor [B] (🔌 x1, ▼ x5).



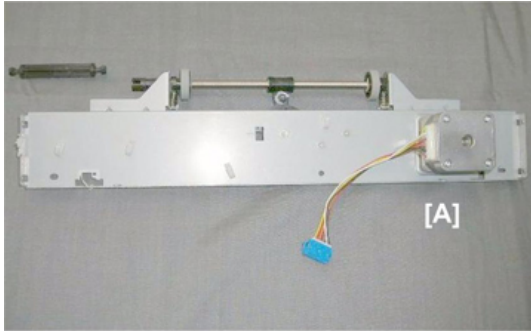
d434r381

Booklet Stapler Clamp Roller Motor

Preparation

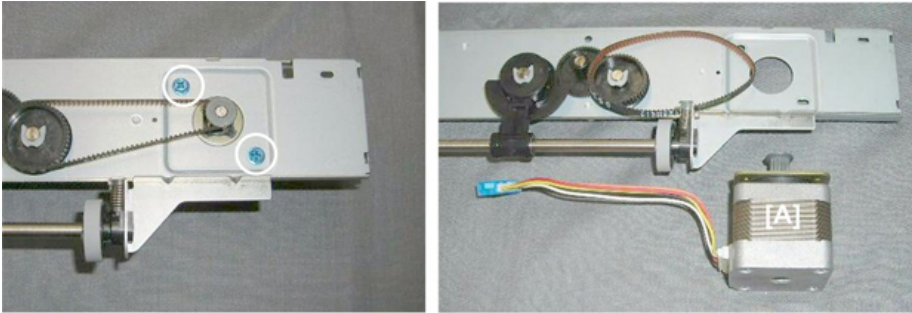
12. Lay the motor base plate [A] on a flat surface.

13. Turn the base plate over.



d434r382

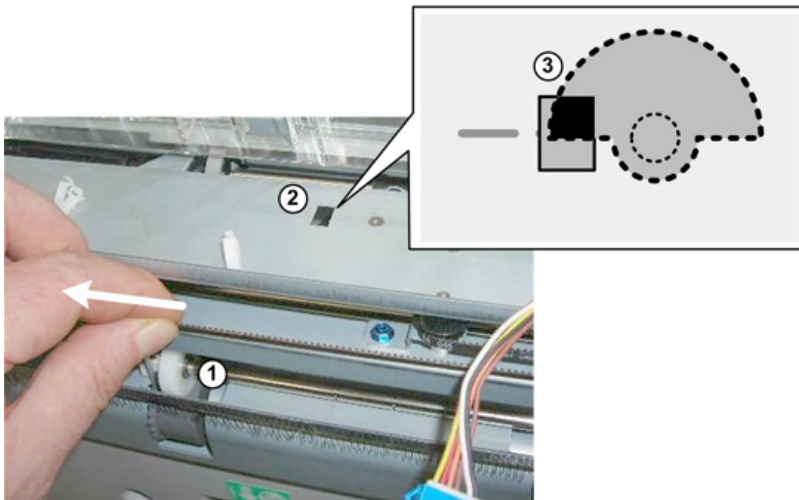
14. Remove motor [A] (⊙ x2, ⊙ x1).



d434r383

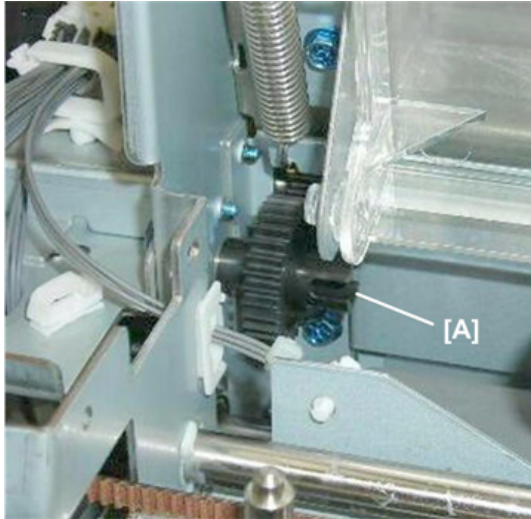
Re-installation

1. To make sure there is no pressure on the base plate, pull belt ① until you can see through the hole ② that the edge of the actuator ③ below the hole is aligned as shown.



d434r376

2. Turn gear [A] so that you can see the cut-out. The post of the linkage must be re-inserted here when the motor base plate is re-installed.



d434r384

3. After the motor base plate [A] has been re-installed, the linkage will not be straight. It will slant slightly from rear to front. This is normal.



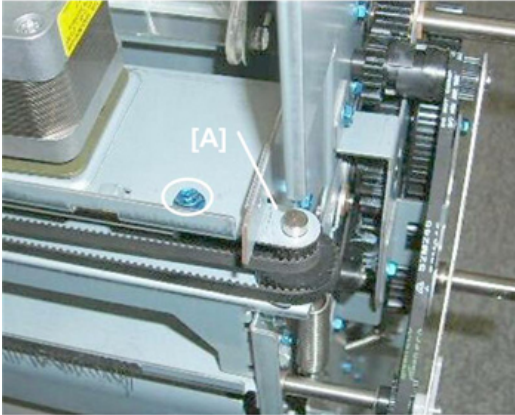
d434r385

4. Confirm that the ends of the vertical shafts fit correctly through the holes in the motor base plate before you re-attach any screws.



d434r386

5. Re-attach end-piece [A] at the front before you re-attach any other screws.

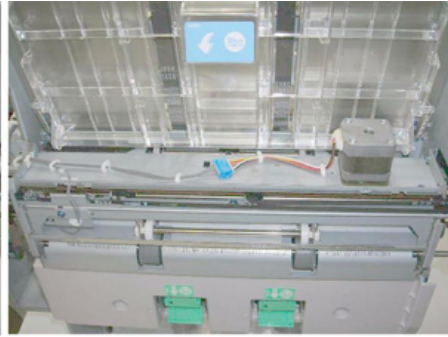
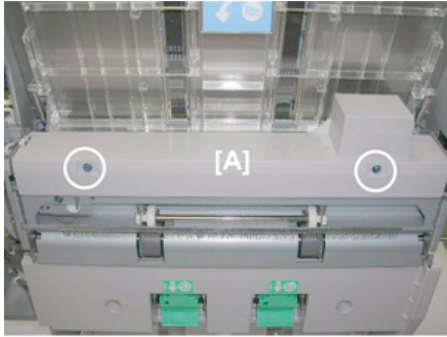


d434r387

Booklet Stapler Clamp Roller HP Sensor

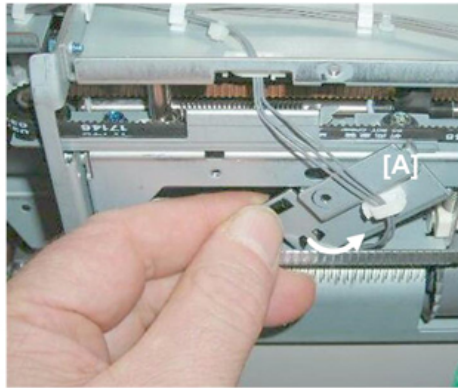
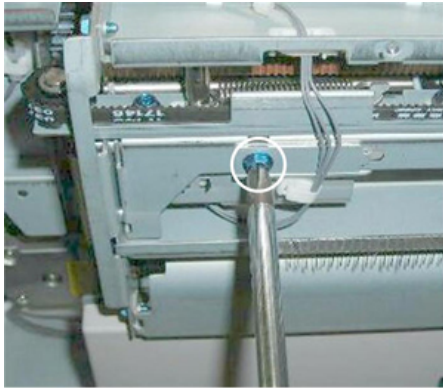
Preparation

- Booklet unit (page 29)
1. Remove cover [A] (⊗ x2).



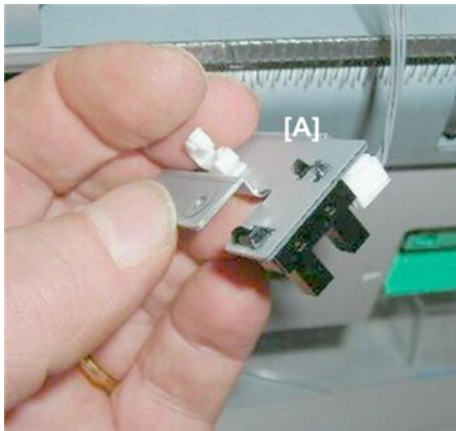
d434r388

2. Remove sensor bracket [A] (🔑 x1).



d434r389

3. Remove sensor [A] (📦 x1, ▼ x5).



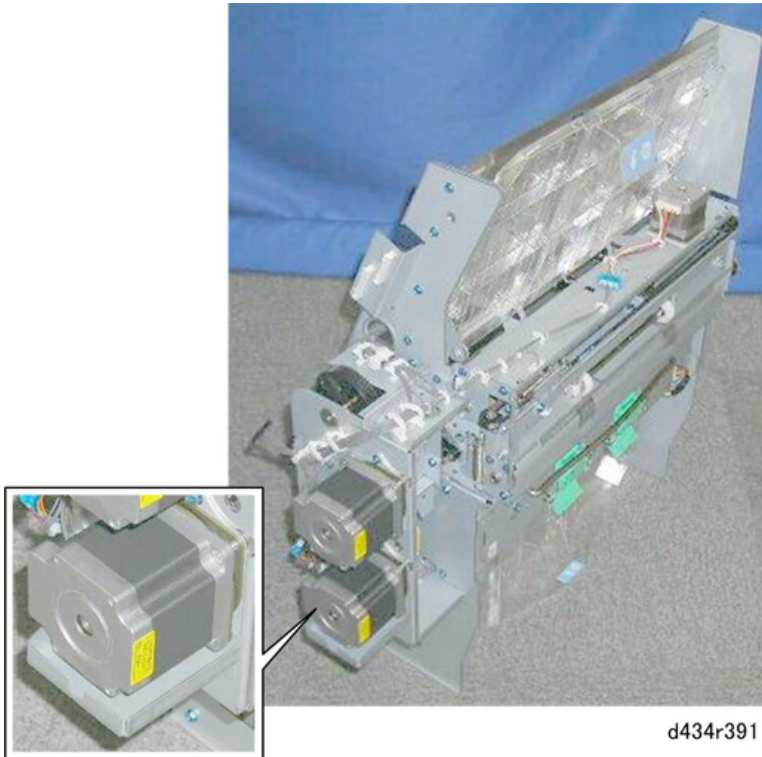
d434r390

Booklet Folding

Fold Roller Motor

1

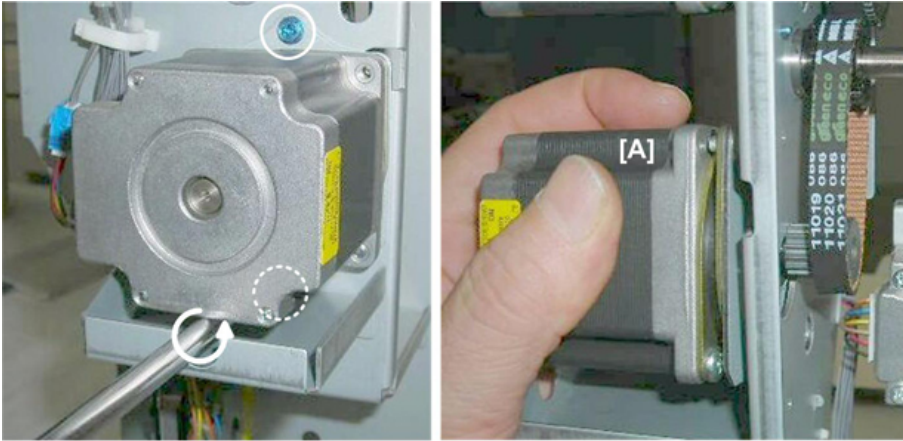
The fold plate motor is on the back of the booklet unit, below the fold roller motor.



d434r391

Preparation

- Booklet unit (page 29)
1. Disconnect motor [A] (⊗ x2, ⊗ x1).



d434r392

2. Remove the motor.

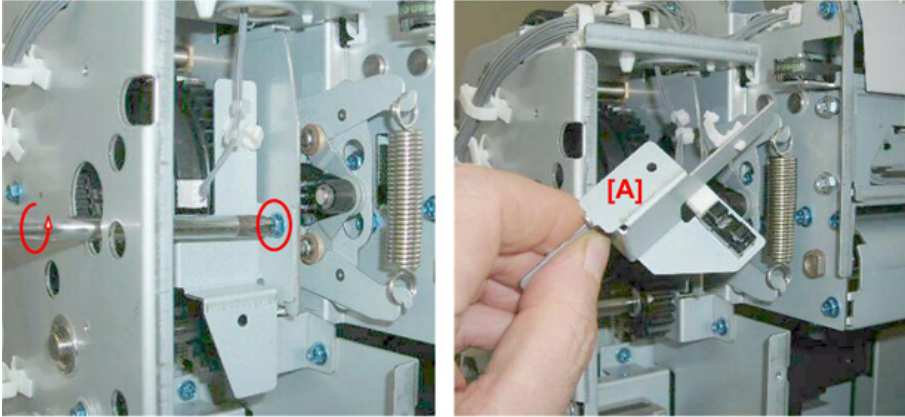


d434r393

Fold Plate Cam HP Sensor

Preparation

- Booklet unit (page 29)
 - Fold roller motor (described in the previous section)
1. Remove sensor bracket [A] (🔩 x1, 🛠️ x1, 📦 x1).
 2. Sensor (🔩 x5)



d434r394

Fold Plate HP Sensor

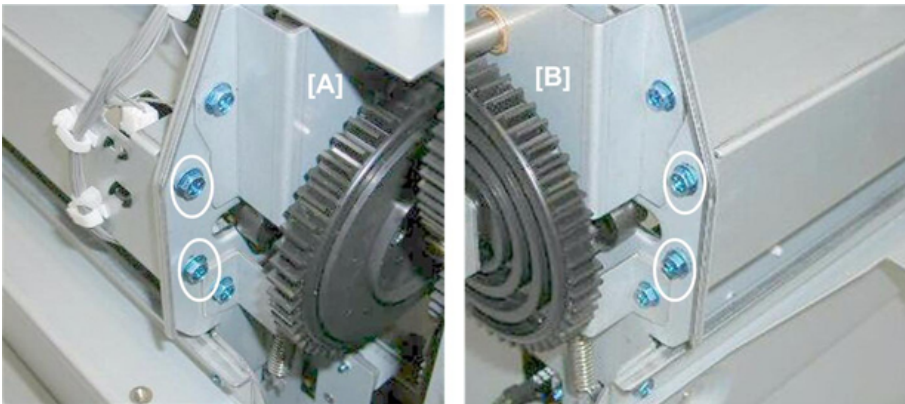
Preparation

- Booklet unit (page 29)

1. Remove:

[A] Rear (🔩 x2)

[B] Front (🔩 x2)



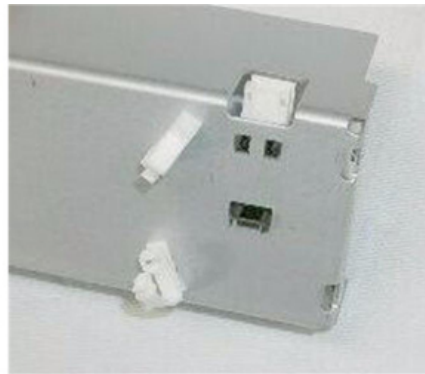
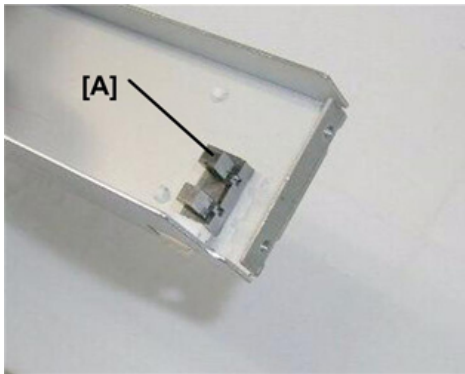
d434r395

- #### 2. Remove cross-brace [A] (🔩 x2, 📦 x1)



d434r396

3. Sensor [A] (▼ x5)

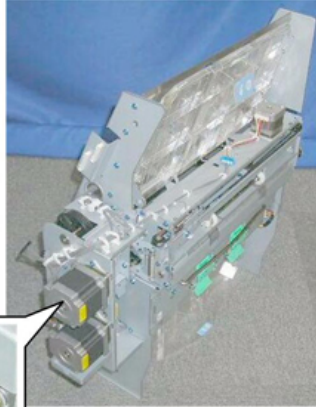


d434r397

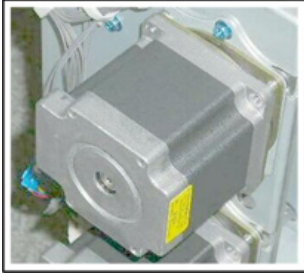
Booklet Exit

Fold Roller Motor

The fold roller motor is on the back of the booklet unit, above the fold plate motor.

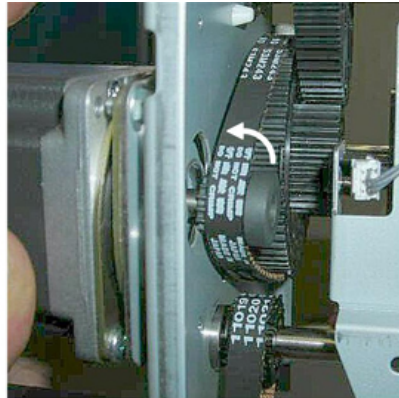
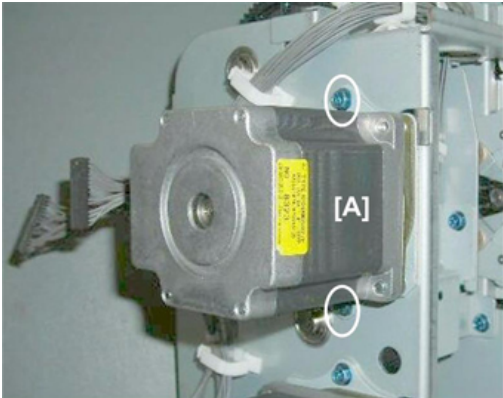


d434r398



Preparation

- Booklet unit (page 29)
1. Disconnect motor [A] (⊗ x2, ⊗ x1).



d434r399

2. Remove the motor.

1



d434r400

Boards

Main Board

1

Preparation

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
1. The main board is on the back of the machine.




d7340161

2. Disconnect the board (📦 x44).
 - There are approximately 17 clamps around the board.
 - Open only as many clamps as necessary to remove the board. This will keep the connectors aligned and make it easier to re-connect them.



d7340162

3. Disconnect the board ( x8).



d7340163

4. Remove the board.



d7340164

Punch Unit PCB

Preparation

- Rear upper cover (page 15)
 - Rear lower cover (page 16)
1. Remove the punch unit PCB (🔧 x6, ⚙️ x4).

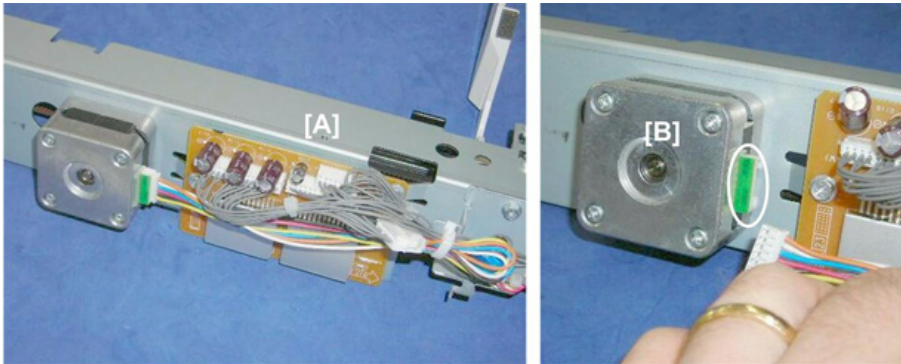


d434r412

Shift Tray Jogger Unit PCB

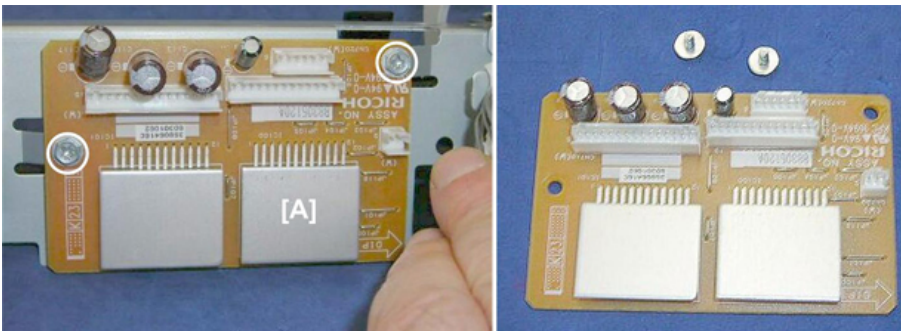
Preparation

- Shift tray jogger unit (page 74)
1. Lay the shift jogger unit [A] on a flat surface.
 2. Disconnect motor [B]. (🔧 x1)



d434r413

3. Remove PCB [A] (🔩 x5, 🛠️ x2).



d434r414

PSU

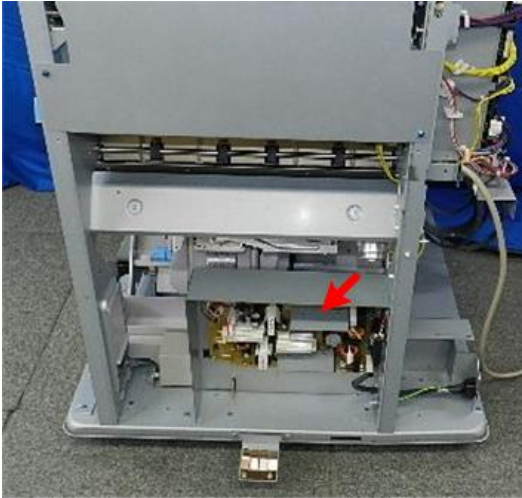
Preparation

- Switch the system off.
- Disconnect the finisher from its power source.
- Wait at least 30 minutes.
- Right panels (page 24)

⚠️ CAUTION

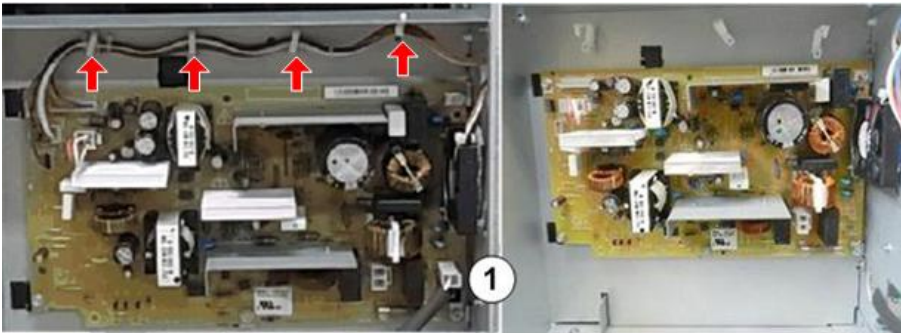
- The PSU will retain residual charge, even after the machine has been turned off.
- Allow at least 30 minutes for any residual charge to dissipate before you touch the PSU.

1. The PSU is on the right, bottom edge of the unit.



d7340165

2. Disconnect the board (🔌x3, 📦x5).

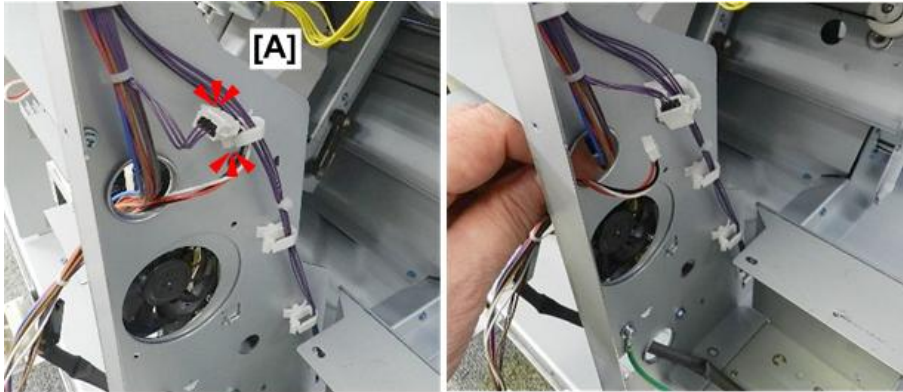


d7340506

★ Important


- Be sure to re-connect the bayonet connectors at ① White over Black.


3. At the rear [A] disconnect the fan (🌀x1, 📦x1).

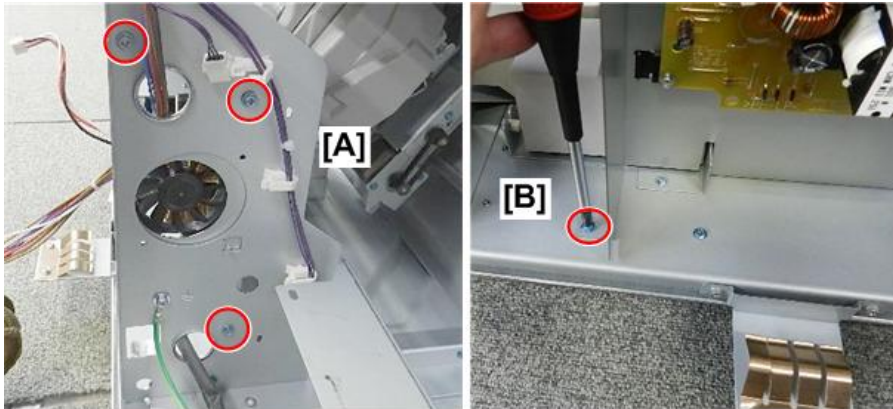


d7340167

4. Disconnect the board bracket:

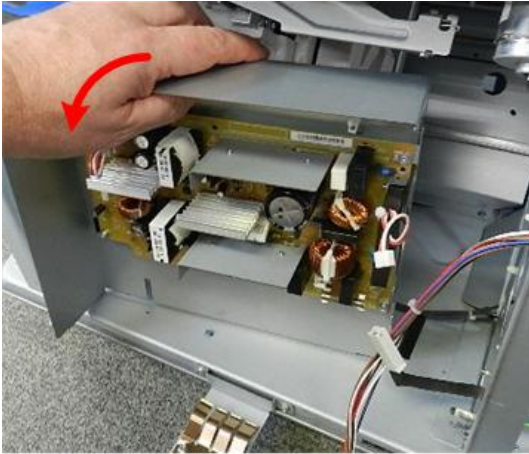
[A] Rear ( x3)

[B] Front ( x1)



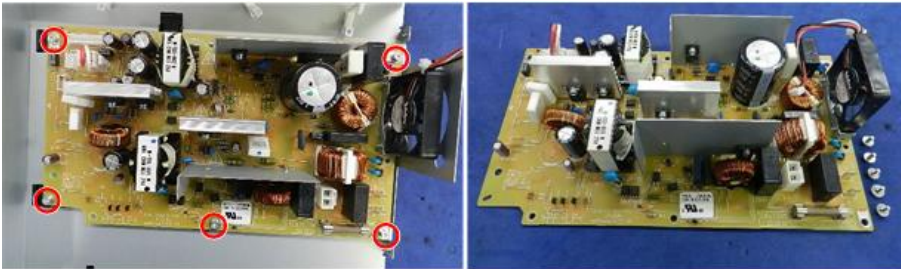
d7340168

5. Remove the bracket (with board attached).



d7340169

6. Separate board and bracket (⚙️ x5).



d7340170

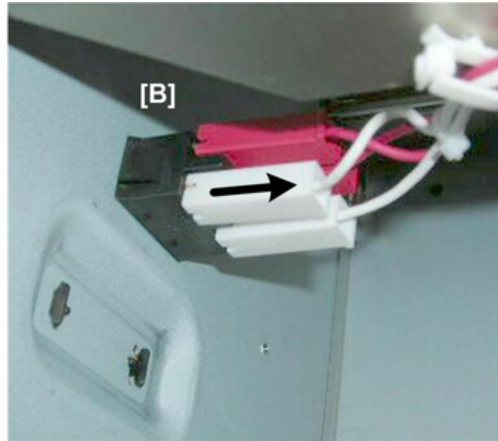
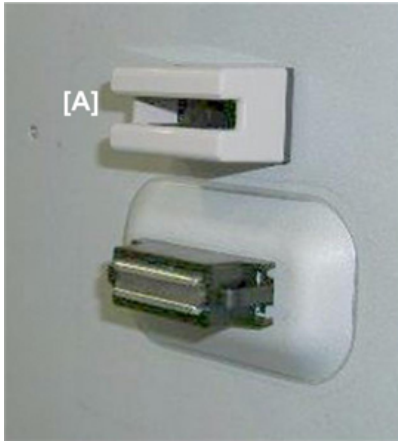
Switches

1

Front Door Switch

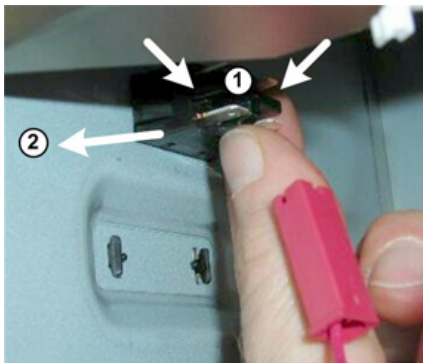
Preparation

- Open the front door.
 - Upper inner cover (page 19)
1. Locate the door switch [A] on the front.
 2. Inside the finisher, disconnect switch [B] (🔌 x4).



d434r416

3. Pinch both sides of the switch and push it out.



d434r417

Emergency Shift Tray Stop Switch

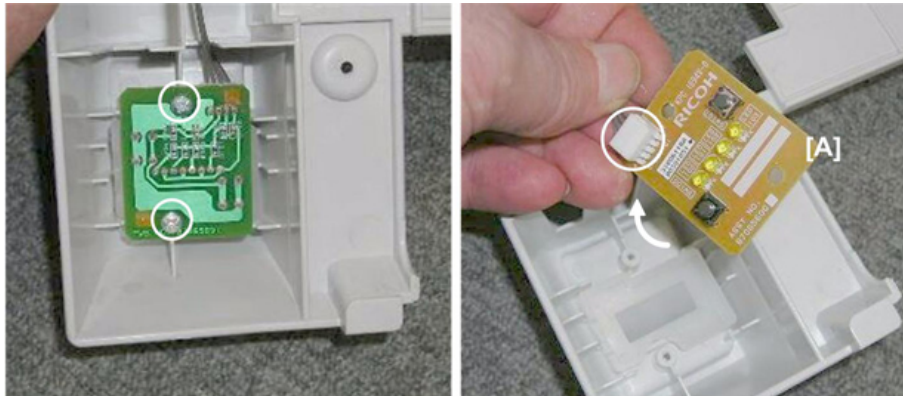
Preparation

- Shift tray jogger unit (page 74)
 - Left upper cover (page 23)
1. The switch [A] is on the front end of the left upper cover.



d434r420

2. Turn the cover over.
3. Remove the switch [A] (⚙️ x2, 🗝️ x1).



d434r421

Rollers and Brushes

1

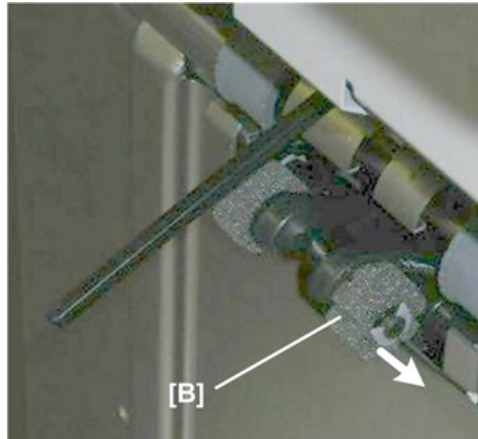
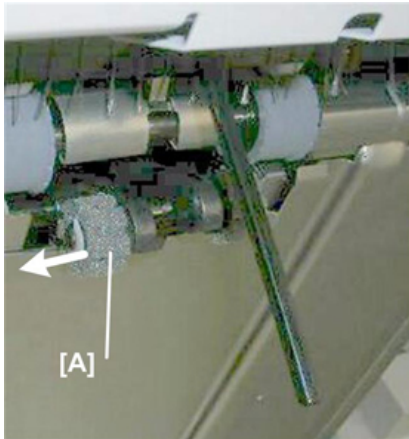
Rollers

Drag Roller

1. Replace:

[A] Rear (⚙️ x1, Belt x1)

[B] Front (⚙️ x1, Belt x1)



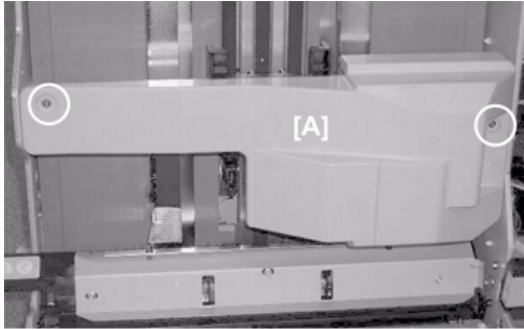
d434r422

Positioning Roller

Preparation

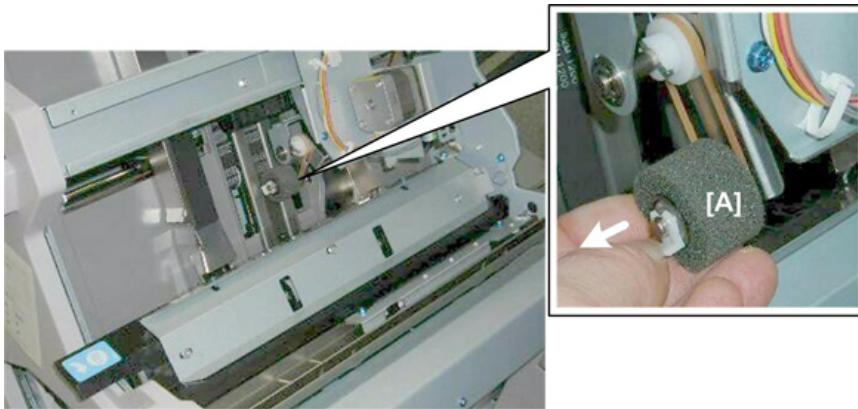
- Open the front door.
- Pull out the stack/staple unit with handle **Rb12**.

1. Remove motor cover [A] (⚙️ x2).



d434r423

2. Replace sponge roller [A] (🌀 x1, 🌀 x1)



d434r424

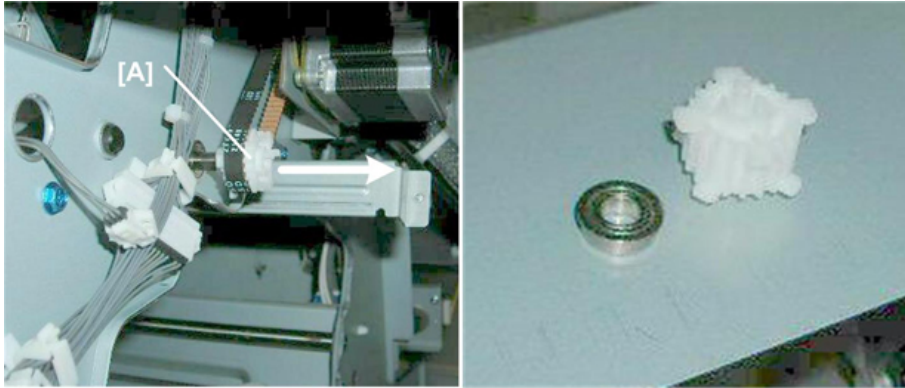
Alignment Brush Roller

Preparation

- Open the front door.
- Lower inner cover **Rb10, Rb11** (page 17)
- Center inner cover **Rb14, Rb 16** (page 18)
- Right panel (page 24)

Rear

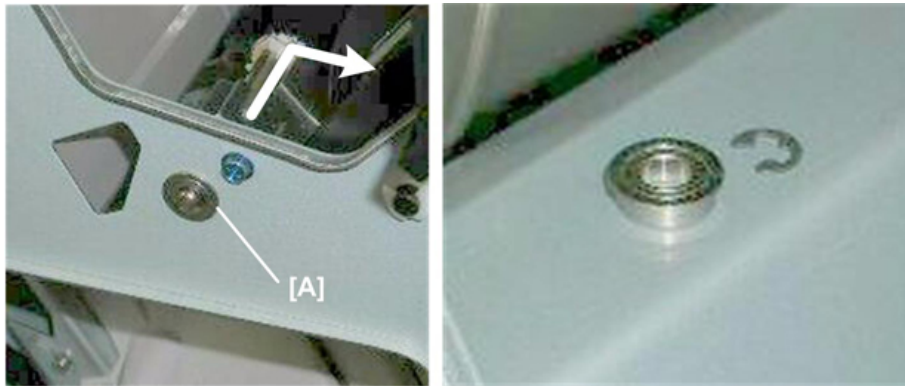
1. Remove gear [A].
2. Remove gear and bushing (🌀 x1, 🌀 x1, Bushing x1)



d434r425

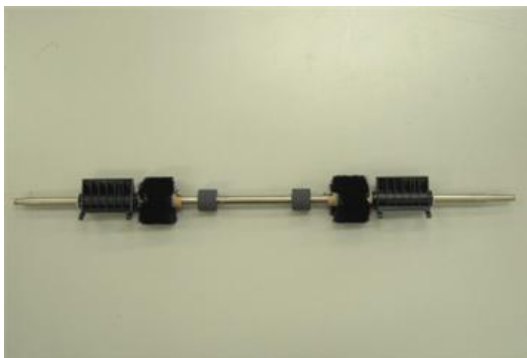
Front

1. Remove the bushing [A] (1x1).



d434r426

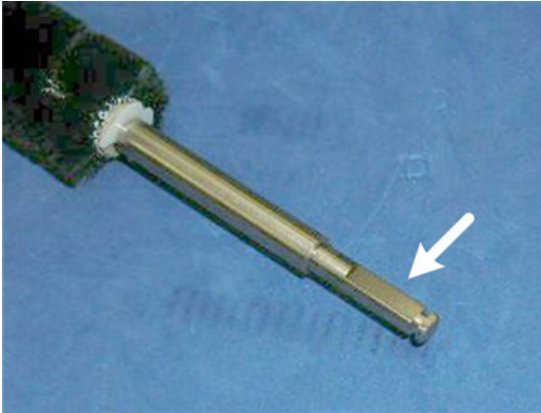
2. Remove the alignment brush roller.



d7340504

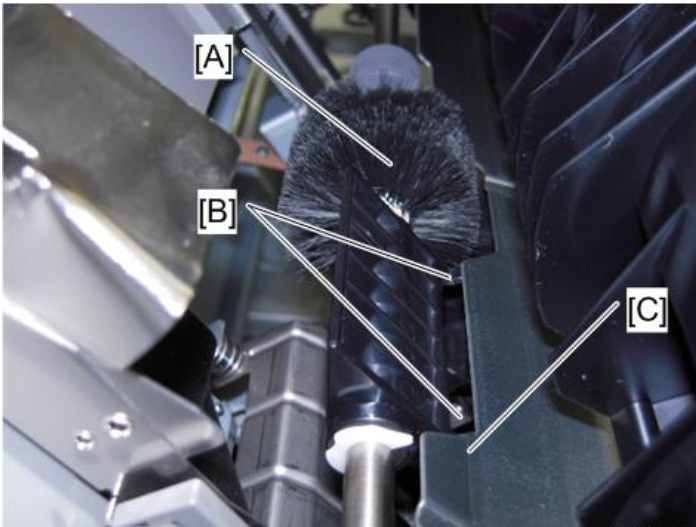
Re-installation

1. The end of the shaft with the flat bevel is the rear end of the shaft where the gear and belt must be re-attached.



d434r428

2. When you re-install the brush roller [A], make sure that pawl [B] of the guide is below plate [C].

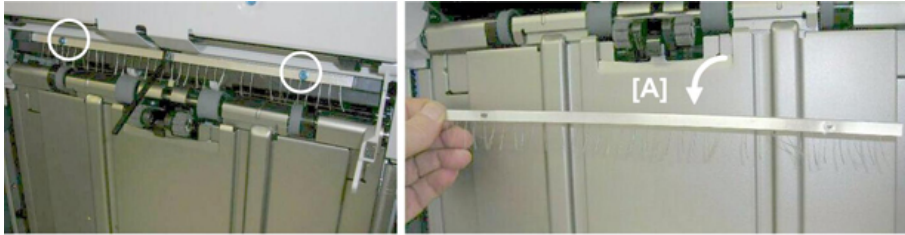


d7340505

Discharge Brushes

Shift Tray Exit

1. Remove discharge brush [A] (🔧 x2).



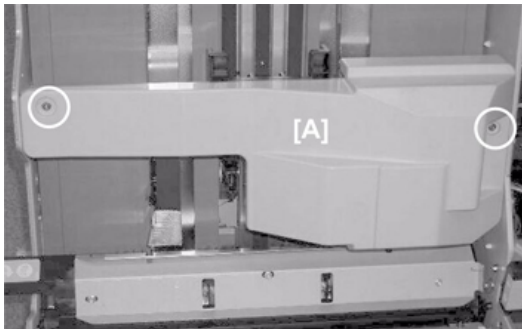
d434r429

Corner Stapler Entrance

Preparation

- Open the front door.
- Pull out the stack/staple unit with handle **Rb12**.

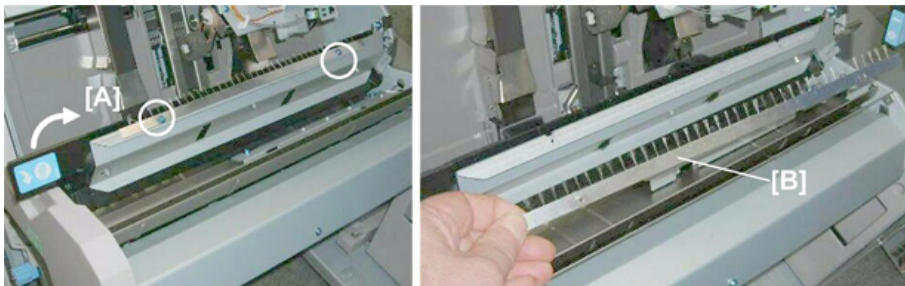
1. Remove cover [A] (⊖ x2)



d434r423

2. Raise **Rb13** [A].

3. Remove discharge brush [B] (⊖ x2)



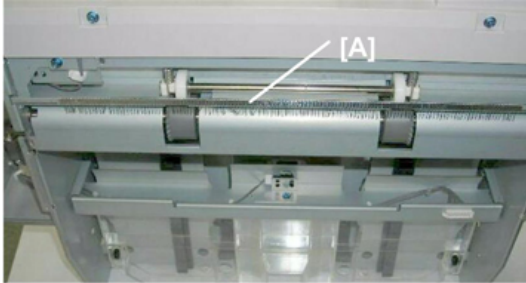
d434r430

Booklet Unit Exit

Preparation

- Booklet unit

1. The discharge brush [A] is on the left side of the booklet unit.

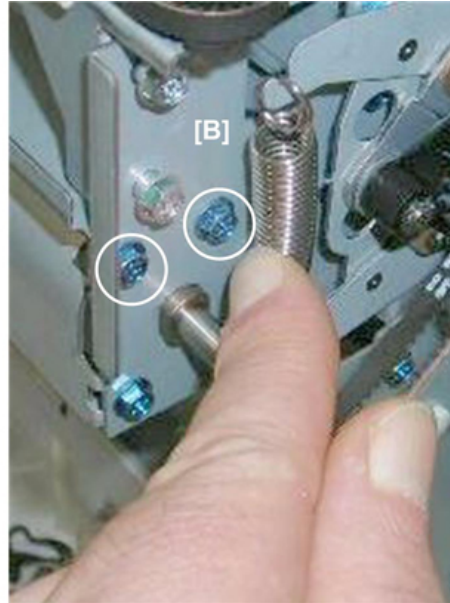
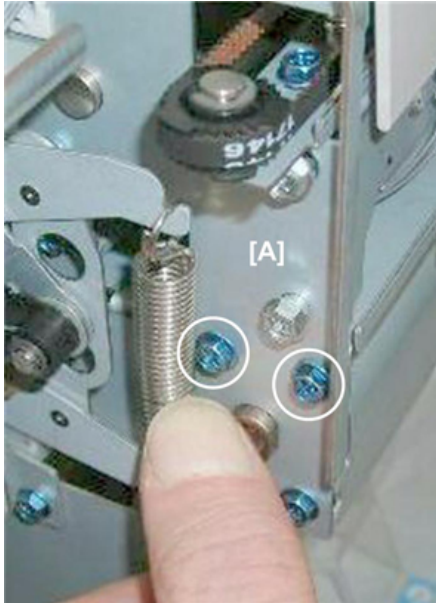


d434r431

2. Remove:

[A] Rear (🔧 x2)

[B] Front (🔧 x2)



d434r432

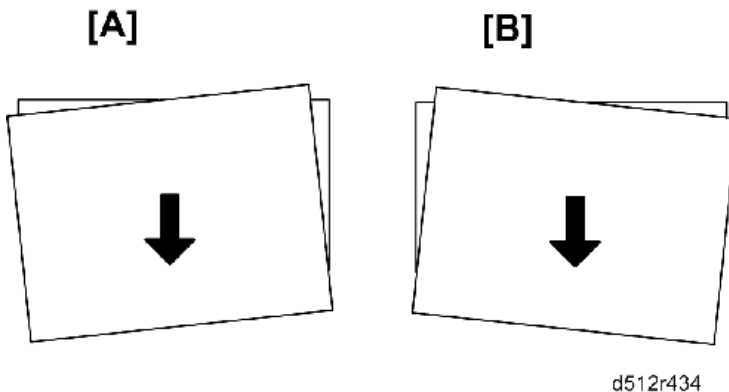
Special Adjustments

1

Horizontal Skew Adjustment

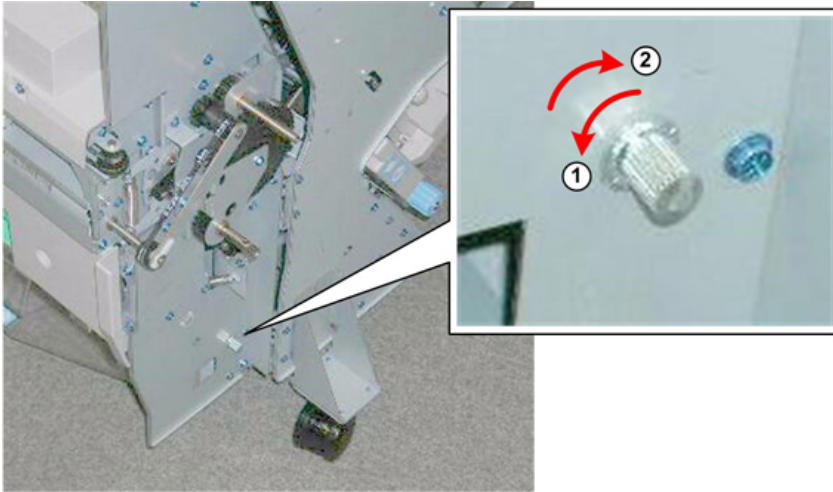
The booklet unit is adjusted for optimum performance before the finisher is shipped from the factory. Do this adjustment only if the edges of folded booklets are not even.

1. Run a fold/staple job through the booklet unit with A3 (or DLT) paper.
2. Hold the folded sheet with the creased side pointing down and face-up (the same way that it came out of the finisher).
3. Referring to the diagram below, determine if the skew is [A] or [B].
 - [A] indicates that the rear fence is low and must be raised.
 - [B] indicates that the front fence is low and must be raised.



Preparation

- Pull the stack/staple unit out with handle **Rb12**
 - Remove the lower inner cover **Rb10, Rb11**
1. Before doing any adjustment:
 - Rotate the knob counter-clockwise ① so that it is loose.
 - Rotate the knob clockwise ② until you feel some resistance, then stop.

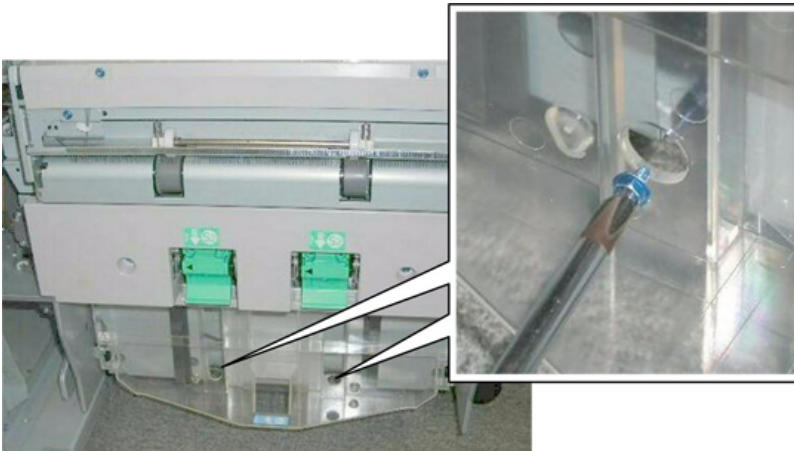


d434r434a

2. Remove the screw.

★ Important

- There is only one screw to remove. Check both holes.
- The screw may be at the front or at the rear, depending on where it was attached before shipping from the factory.



d434r435

[A] Adjustment: Rear Fence Low

1. For [A] type skew, turn the adjustment screw on the front of the booklet unit to the **left (clockwise)** to raise the rear fence.

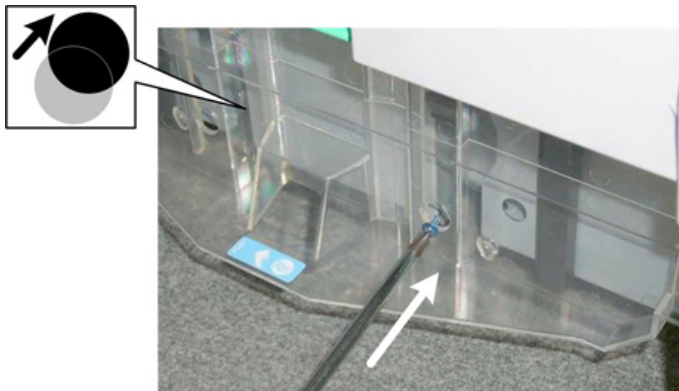
★ Important

- Every notch adjusts the height 0.1 mm.



d434r436

Turning the adjustment screw to the right may raise the rear fence so the holes at the rear will no longer be aligned.

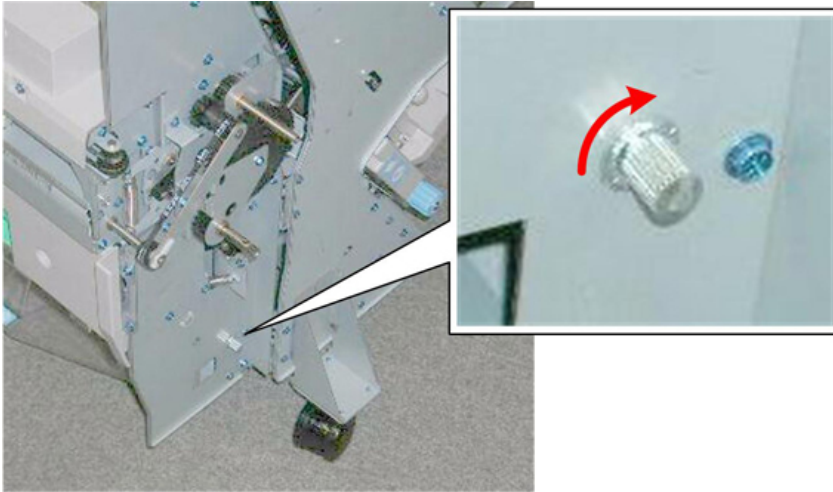


d434r437

2. Re-attach the screw in the front hole where the holes are aligned.

[B] Adjustment: Front Fence Low

1. For **[B] type skew**, turn the adjustment screw on the front of the booklet unit to the **right (clockwise)** to raise the front fence.



d434r438

2. Re-attach the screw at the front hole.



d434r439

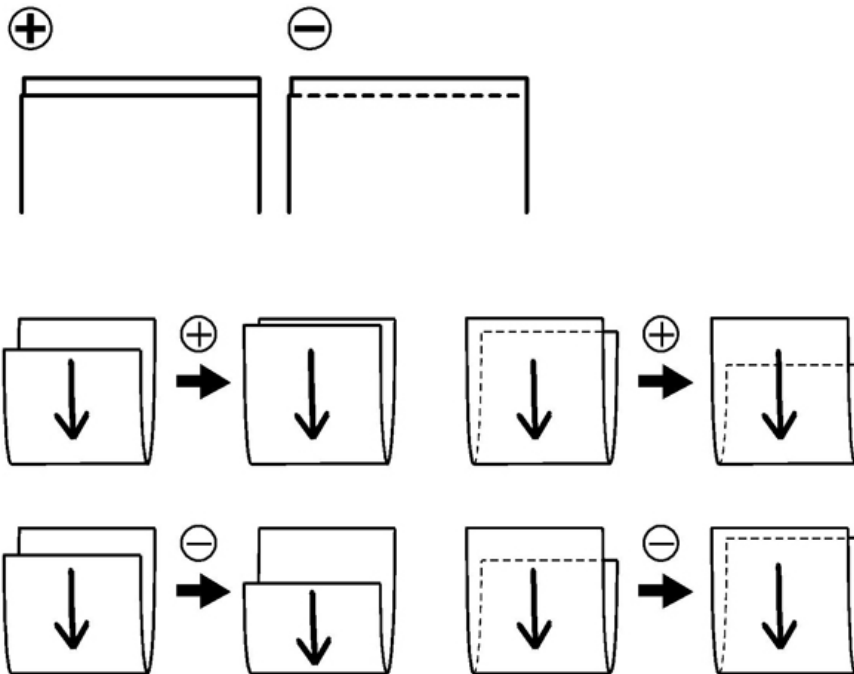
Vertical Skew Adjustment

The booklet unit is adjusted for optimum performance before the finisher is shipped from the factory. Do this adjustment only if the edges of folded booklets are not even.

1. Switch the main machine and do a test run for booklet folding with either A3 or DLT paper

★ Important

- This procedure shows you how to test and adjust vertical skew for A3/DLT paper.
 - This same adjustment can be done for other paper sizes as well with SP6201.
2. Look at the paper and determine what kind of skew (if any is present).
 3. Referring to the diagram, determine if the skew is positive or negative.



d434r440

4. Measure the amount of skew.

5. Enter the SP mode

- Europe, Asia: Use **SP6201-8** (this is for A3 paper).
- North America: Use **SP 6201-15** (this is for DLT paper).

★ Important

- The illustration above shows the effects of +/- adjustment with SP6201.
- The vertical arrows show the direction of paper feed.

6. Enter one-half the measured amount of skew.

- Example: If the measure amount of skew is -1.2 mm, enter -0.6 mm
- The range for measurement is -2.0 mm to +2.0 mm in 0.2 mm steps for every notch adjustment.

7. Exit the SP mode, do another test print and repeat the adjustment procedure if necessary.

Base Fence Replacement

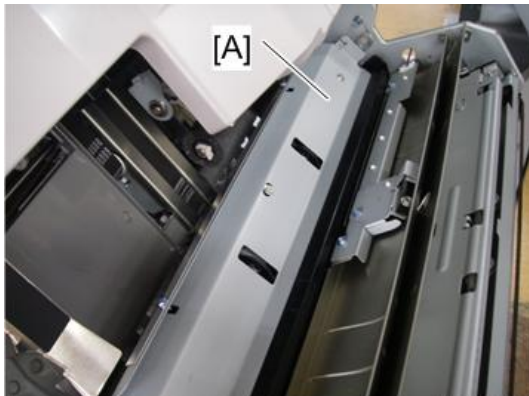
Before You Begin

- The base fences can be replaced separately or together.

- Only replacement of the front fence is described here. The replacement procedure for the rear base fence is the same.

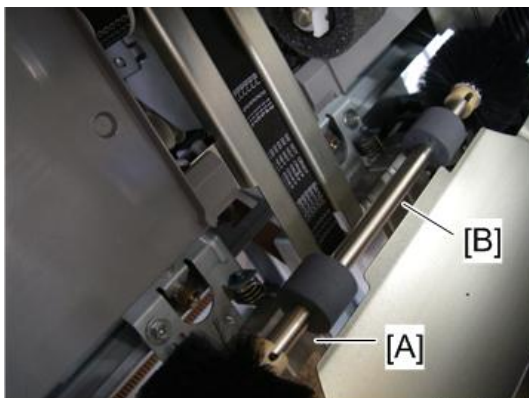
Preparation

1. Pull out the stack/staple unit with handle **Rb12**.
2. Remove entrance guide plate [A]



d7340516

3. Now you can access the front and rear of the base fence.
 - [A] is the front of the base fence.
 - [B] is the rear of the base fence.



d7340517

4. Remove the screw (🔩 x1).

⬇ Note

- This screw is extremely tight, so to prevent damaging the head of the screw use a socket wrench or hex driver to remove it.



d7340518

5. Look at the lower right corner of the staple unit.

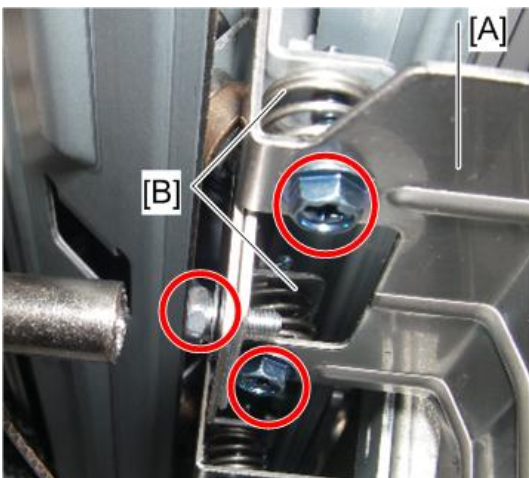


d7340519

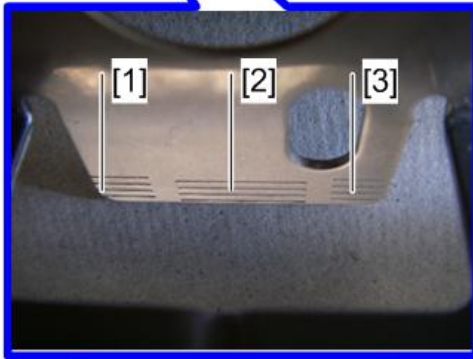
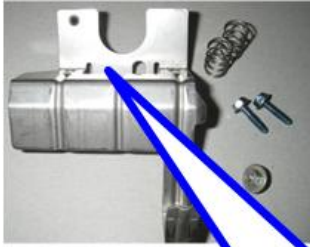
6. Remove the screws, and then carefully remove the front of the base fence [A] (🔩 x3).

Note

- Work carefully to prevent pressure spring [B] from flying off.



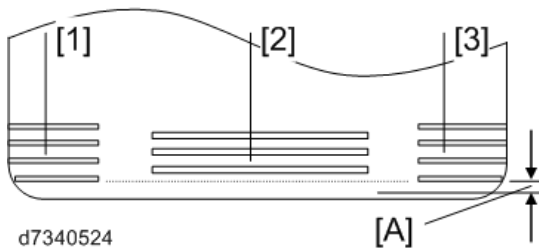
7. The new base fence is embossed with groups of lines [1], [2], [3].



d7340521

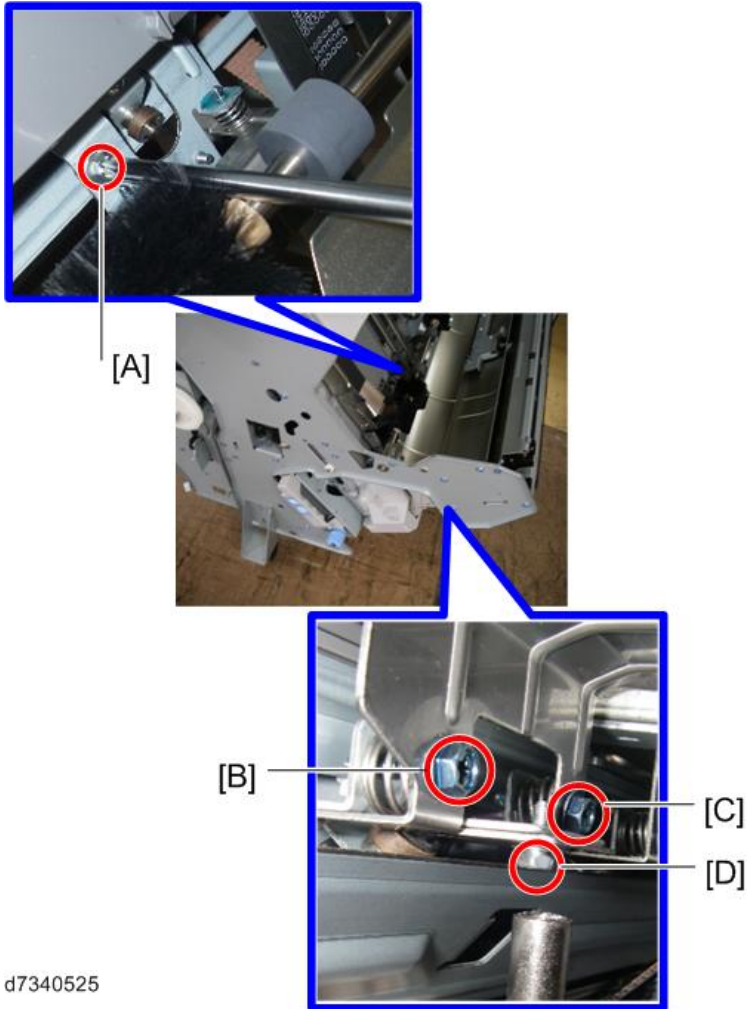
Note

- The pitch of the lines [1], [2], [3] is 0.5 mm [A].



d7340524

8. Attach the new front base fence (⚙️ x4).



d7340525

Note

- Pay attention to the use and order of screw attachment.
 - Screw [A] is attached last.
 - Screws [B] and [C] are used to adjust the position of the base fence.
 - Leave screw [D] loose.
9. Set the front end of the fence bracket [A] so it is aligned with the embossed lines [1], [2], [3], adjust the position with screw [B], and then tighten screw [C].

MEMO

MEMO