

**Booklet Finisher SR3170 /  
Finisher SR3160  
Machine Code: D688/D689  
Field Service Manual**

July, 2014  
Subject to change



# Revision Lists








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

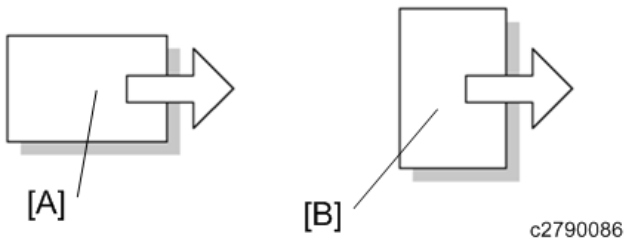
## Replacement and Adjustment

Section	Item	Note
Exterior Cover	Front Cover, Front Left Side Cover	Step before step 1 is deleted.
	End Fence (D688 Only)	Number of hooks in step 3 is revised. Picture "d689z0001" in step 3 is replaced.
Boards	Main Board > When replacing the main board	Step 5 and 6 are added.
Main Unit (Motor)	Corner Stapling Unit	E-ring in step 5 is changed from clip.
		E-ring in step 8 is changed from clip.
Main Unit (Sensor)	Staple Tray Paper Sensor	Picture "d1351295" in step 3 is replaced.
Booklet Unit	Booklet unit	Step 7 is added.
	Press Folding Motor	E-ring in step 2 is changed from clip.
Punch Unit	-	Step 2 is revised. Picture "d146z0063" in step 2 is replaced.
		Step 3 is revised. Picture "d146z0064" in step 3 is replaced.

# Safety and Symbols

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

	Clip ring
	Screw
	Connector
	Clamp
	E-ring
	Spring
	Timing belt
SEF	Short Edge Feed
LEF	Long Edge Feed



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

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## **The Aim of Anti-tip Components and Precautions**

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

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

Therefore, removal of such components must always be with the consent of the customer.

Do not remove them at your own judgment.

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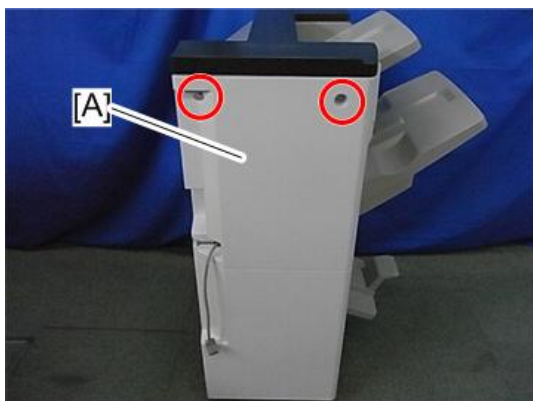
# 1. Replacement and Adjustment

## Exterior Covers

1

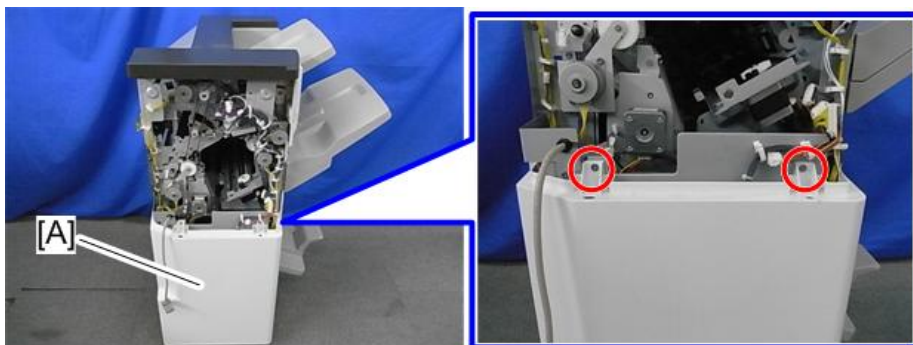
Rear Upper Cover, Rear Lower Cover, Upper Cover, Upper Right Cover

1. Rear upper cover [A] (🔩×2)



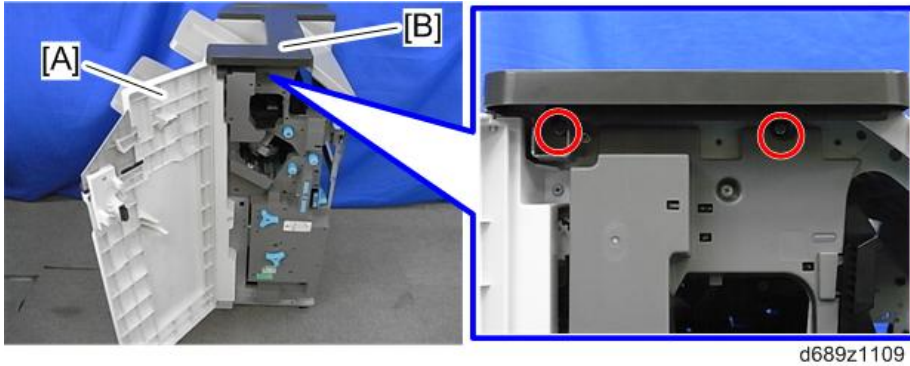
d689z1107

2. Rear lower cover [A] (🔩×2)

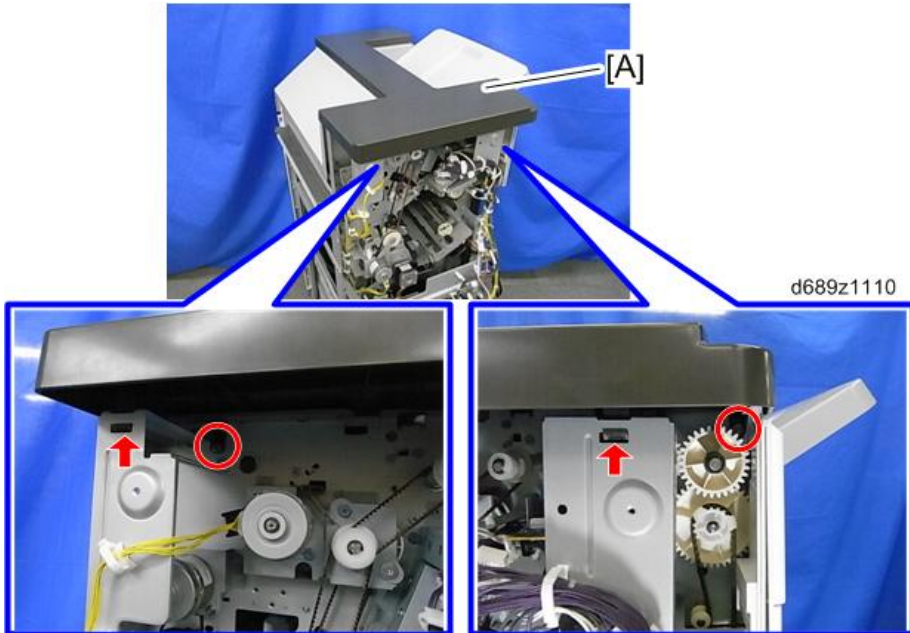


d689z1108

3. Open the front door [A], and remove the screws secured on the front side of the upper cover [B] (⌀×2)

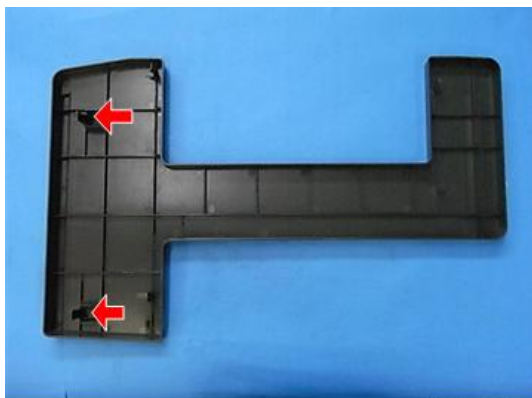


4. Remove the screws secured on the rear side of the upper cover [A] (⌀×2, hook×2)



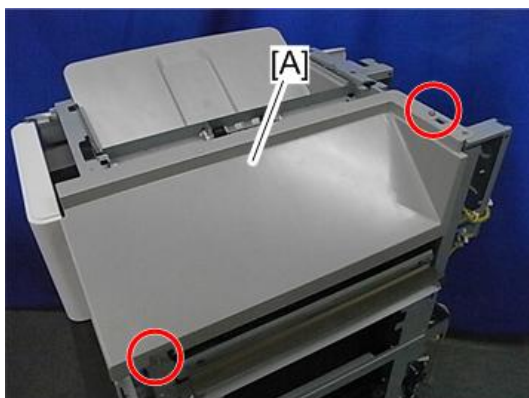
↓ Note

- Check the positions of the bosses and hooks before removing the upper cover.



d689z1111

5. Upper right cover [A] (🔑×2)

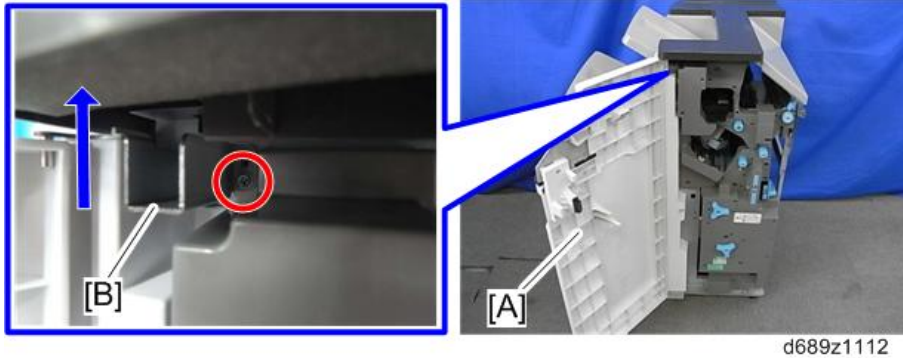


d689z1106

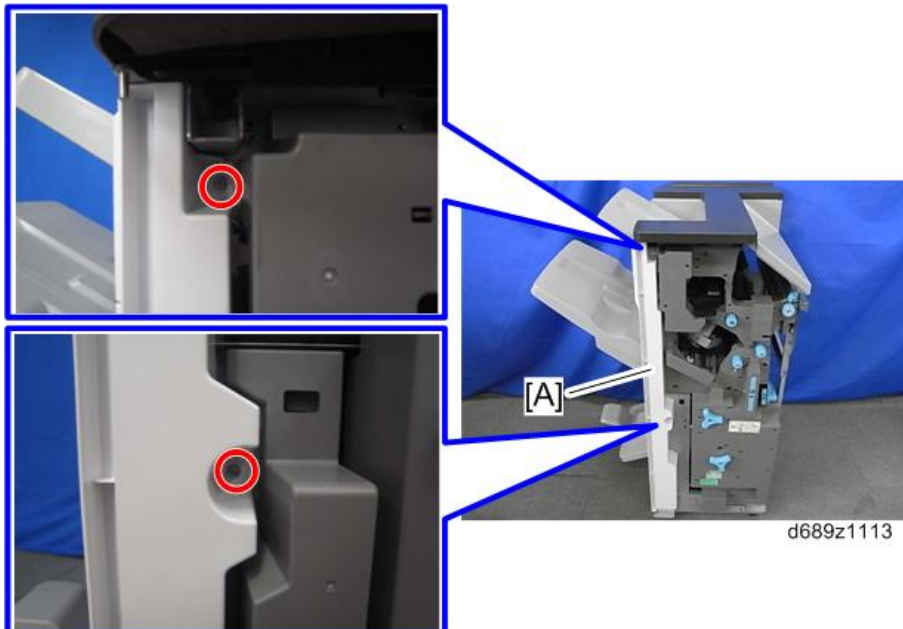
## Front Cover, Front Left Side Cover, Front Inner Cover

1. Open the front cover [A].
2. Release the shaft bracket [B] ( upper direction) (🔑×1).

3. Front cover [A].



4. Front left side cover [A] (⌀ ×2)

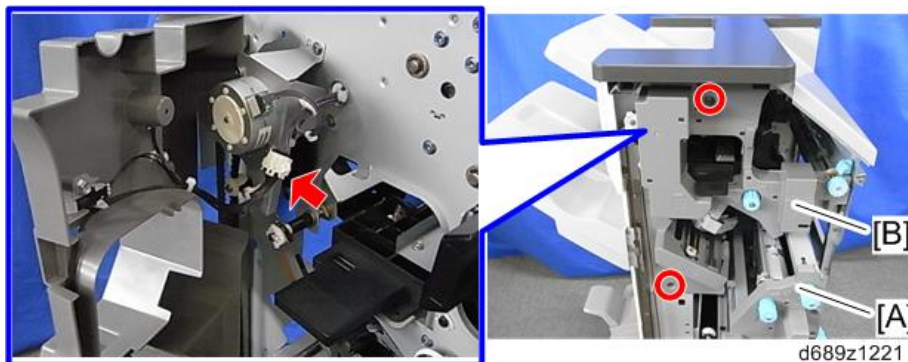


5. D688 only: Slightly pull out the booklet unit [A]

6. Front inner cover [B] (⌀ ×1, ⌀ ×2)

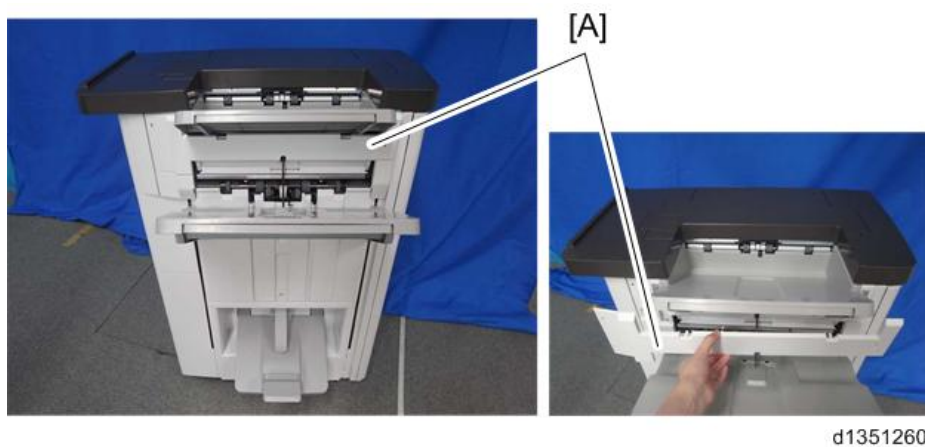
↓ Note

- Note that there is a LED connector inside the front inner cover. Be careful when removing the front inner cover.



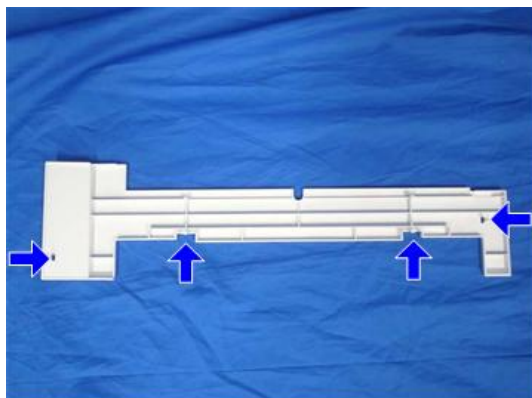
## Paper Exit Cover

### 1. Paper exit cover [A] (hook×4)



#### ↓ Note

- Check the positions of the bosses and hooks before removing the paper exit cover.



d1351261

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## Lower Tray

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### 1. Lower tray [A]



d689z1114

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## Proof Tray

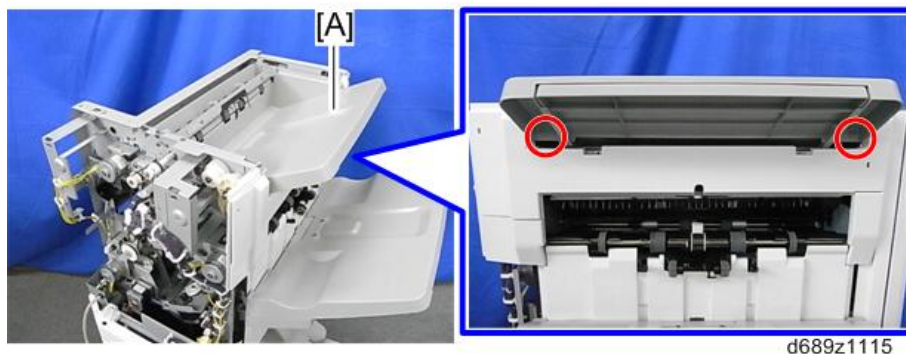
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### 1. Remove the following covers (page 7)

- Rear upper cover
- Upper cover



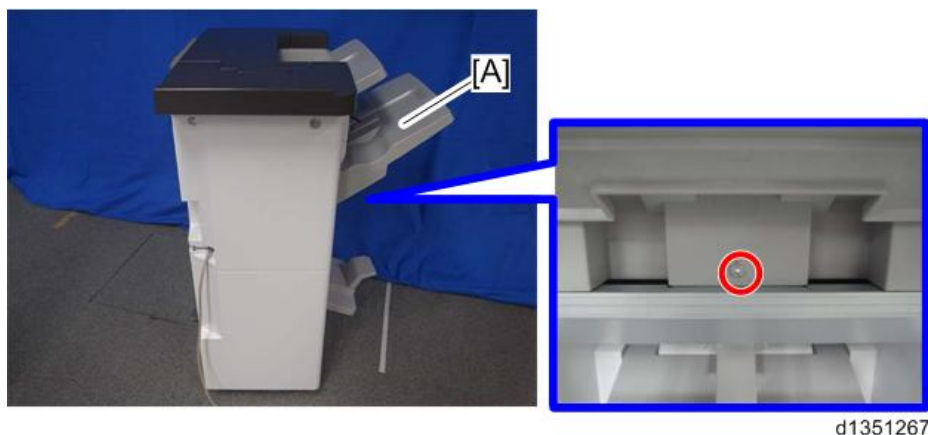
## 2. Proof tray [A] (⌚×2)



1

## Upper Tray

### 1. Upper tray [A] (⌚×1)



## End Fence (D688 Only)

### 1. Remove the following covers.

- Front cover (page 9)
- Front left side cover (page 9)
- Rear upper cover (page 7)

2. Upper tray [A] (⌚ × 1)



d6890004

3. Proof lower cover [A] (hook × 5)



d689z0001

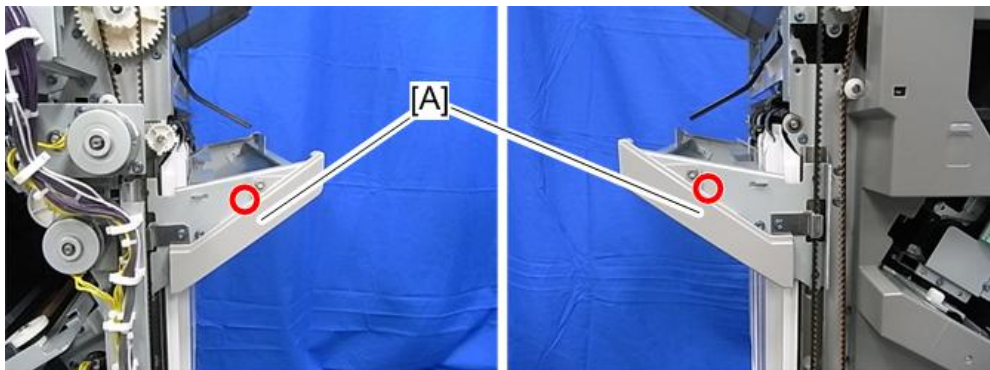
4. Left upper cover [A] (⌚ × 2)



d6890027

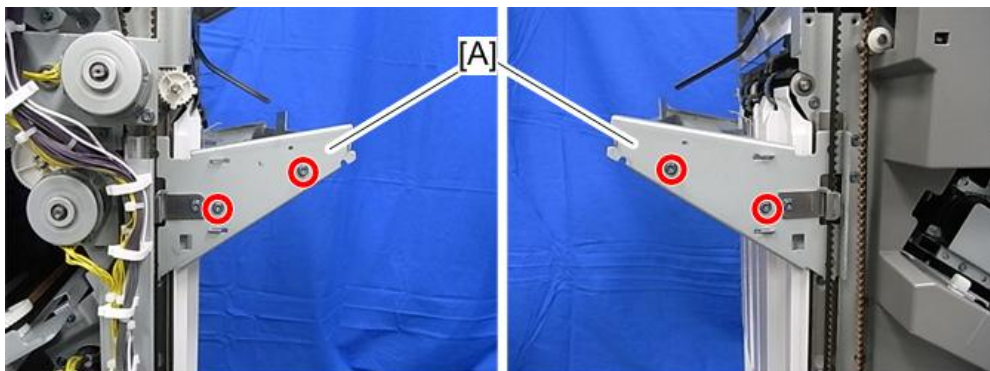


5. Mold bracket (front, rear) [A] (⌀×2)



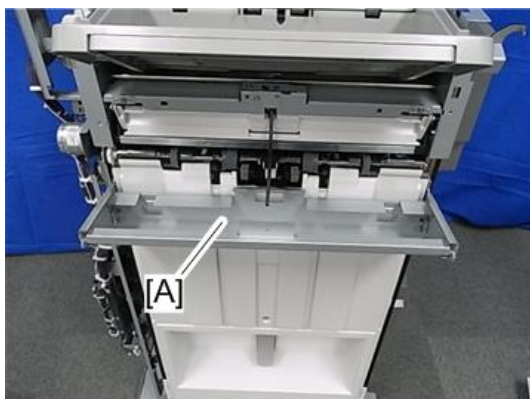
d6890006

6. Shift tray bracket (front, rear) [A] (⌀×4)



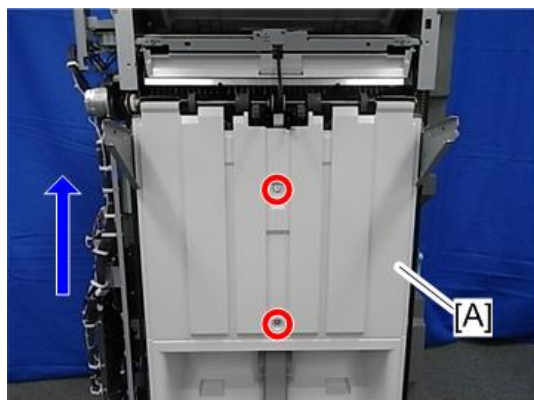
d6890007

7. Shift tray bracket [A].



d6890008

8. End fence [A] (🔩×2)



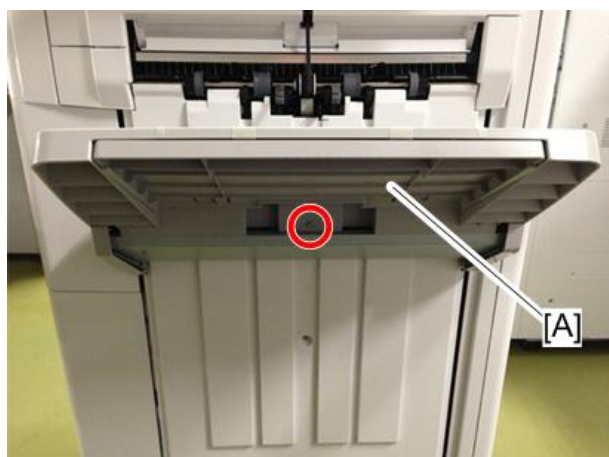
d6890009

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Left Cover (D689 Only)

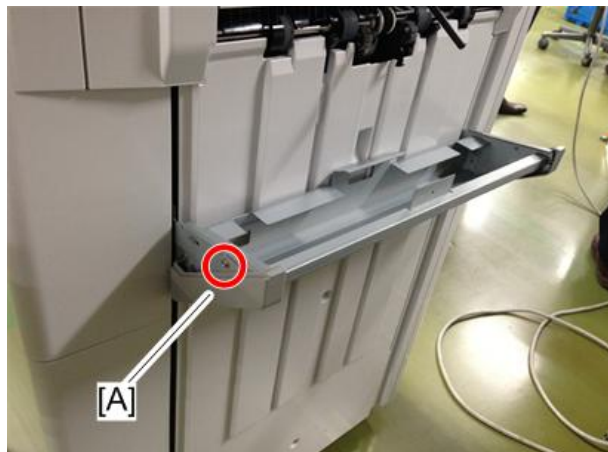
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1. Upper tray [A] (🔩×1)



d1351777

## 2. Rear mold bracket [A] (🔩×1)



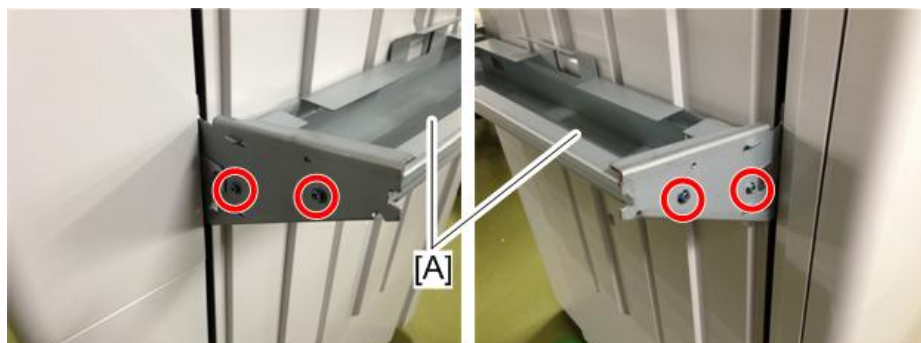
d1351778

## 3. Front mold bracket [A] (🔩×1)



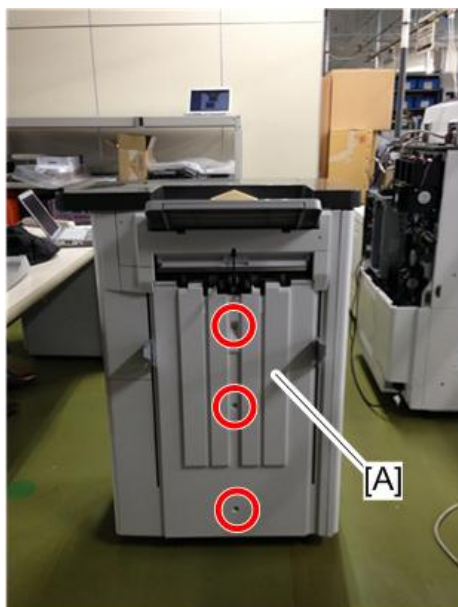
d1351779

## 4. Shift tray bracket [A] (🔩×4)



d1351780

5. Left cover [A] (⌀ ×3)



d1351781

# Boards

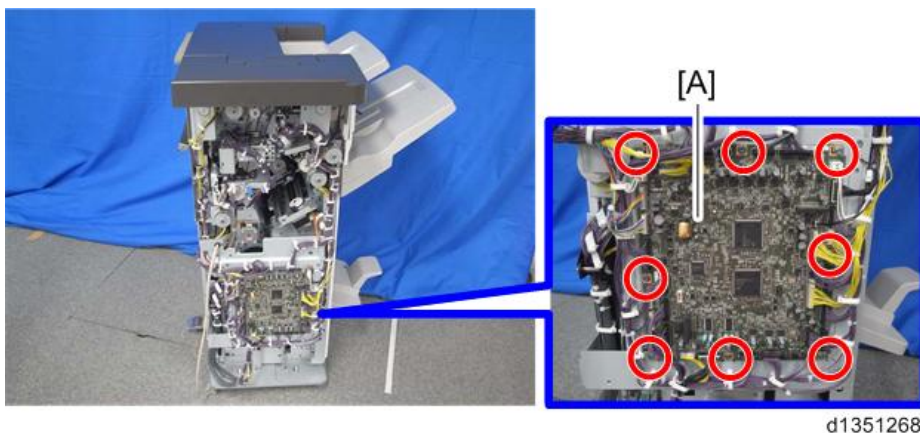
## Main Board

1

### 1. Remove the following covers.

- Rear upper cover (page 7)
- Rear lower cover (page 7)

### 2. Main board [A] (⚙️×8, 📦×all)



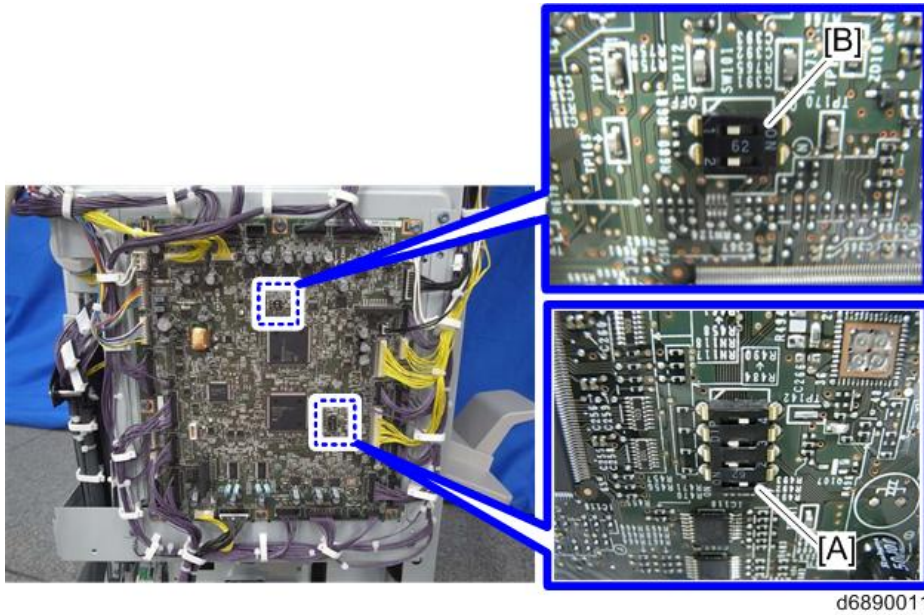
## When replacing the main board

This board has two blocks of dip switches. When you reinstall the main board, follow the procedure below regarding the dip switch settings.

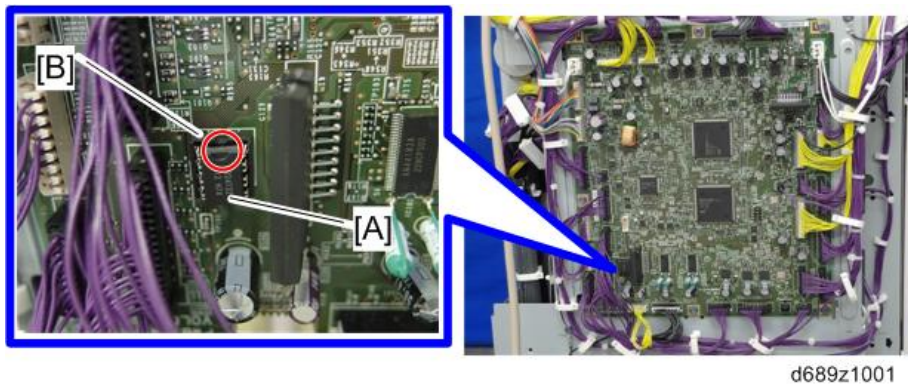
### CAUTION

- Keep the EEPROM away from any objects that can cause static electricity. Static electricity can damage EEPROM data.
  - Make sure that the DIP-switch settings on the old main board are the same for the new main board. Do not change the DIP switches on the main board in the field.
1. Check the settings of dip switch [A] on the old main board.
  2. Replace the main board.
  3. Change the settings of dip switch [A] on the new main board to match the settings on the old main board.
  4. Make sure the switches of dip switch [B] on the new main board are all OFF.





5. Remove the EEPROM [A] from the old main board.
6. Install the EEPROM [A] on the new main board.
  - Make sure the EEPROM is correctly installed on the main board. Insert the EEPROM in the slot with the "half-moon" [B] pointing to the upward side.



# Corner Stapling Unit

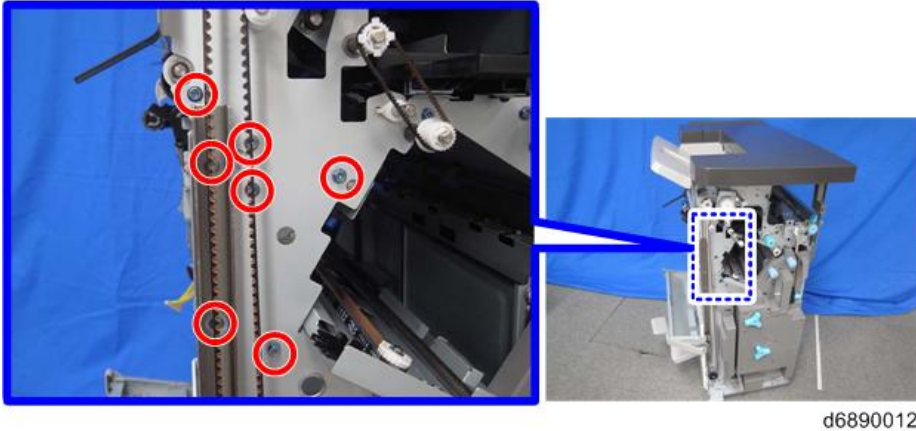
## Corner Stapling Unit

1

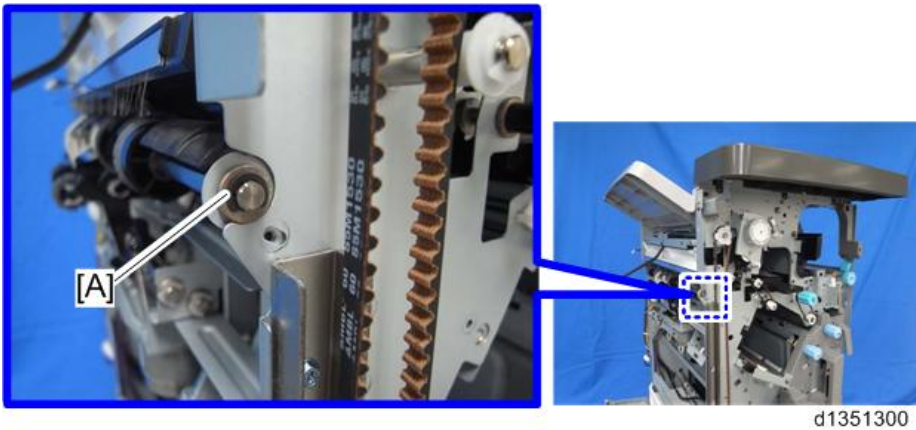
### 1. Remove the following covers.

- Front cover (page 9)
- Front left side cover (page 9)
- Front inner cover (page 9)
- End fence (page 13)
- Rear upper cover and Rear lower cover (page 7)

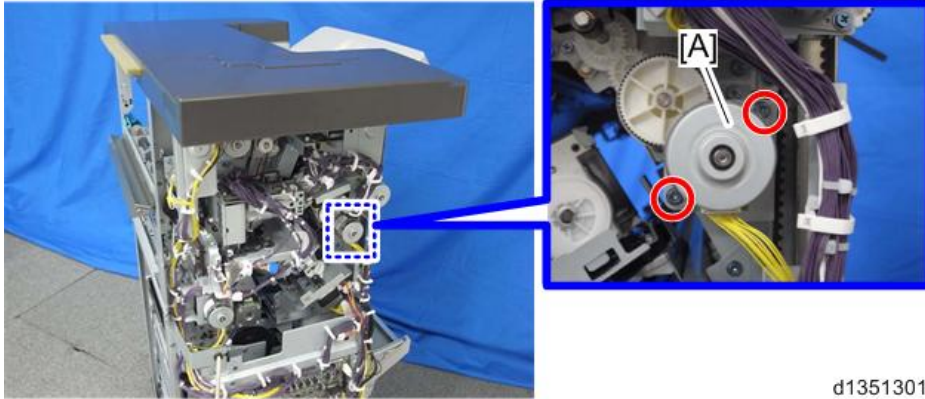
### 2. Screws (🔩×7).



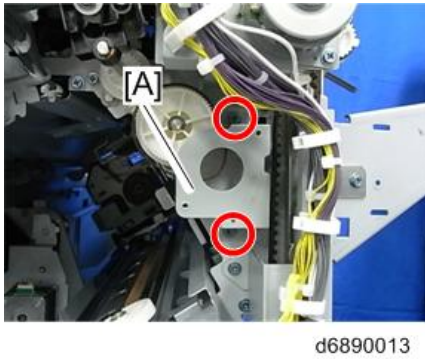
### 3. Bushing [A] (🔩×1).



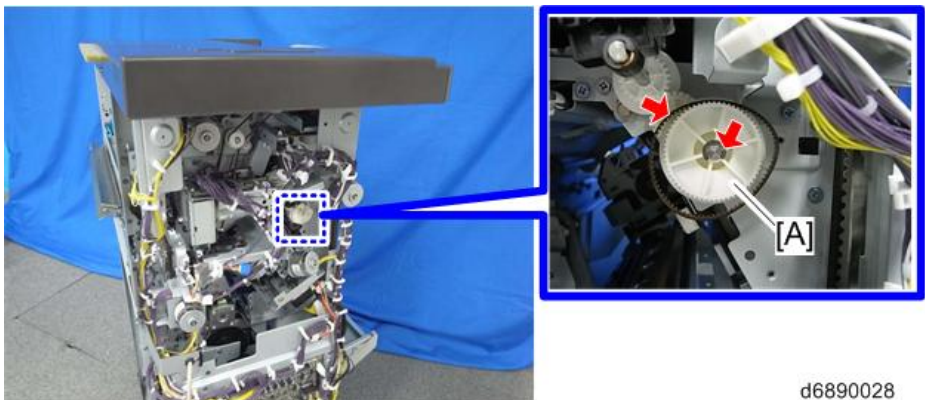
4. Middle transport motor [A] (⌀×2)



5. Middle transport motor bracket [A] (⌀×2)

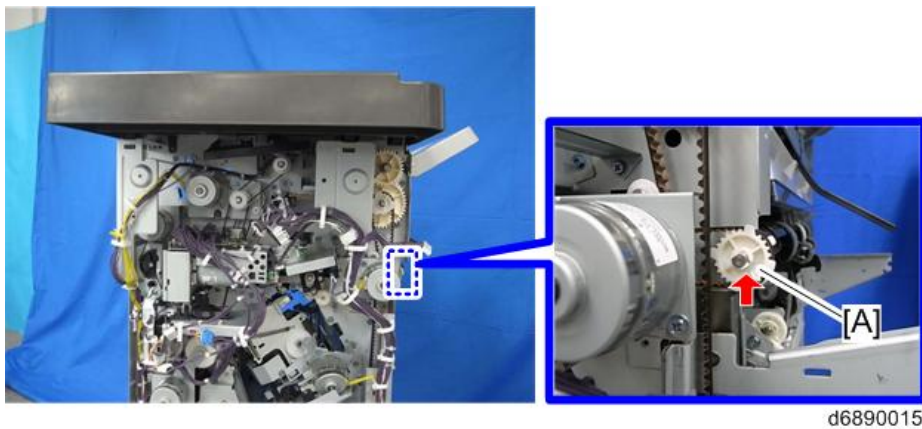


6. Gear [A] (⌀×1, belt × 1)

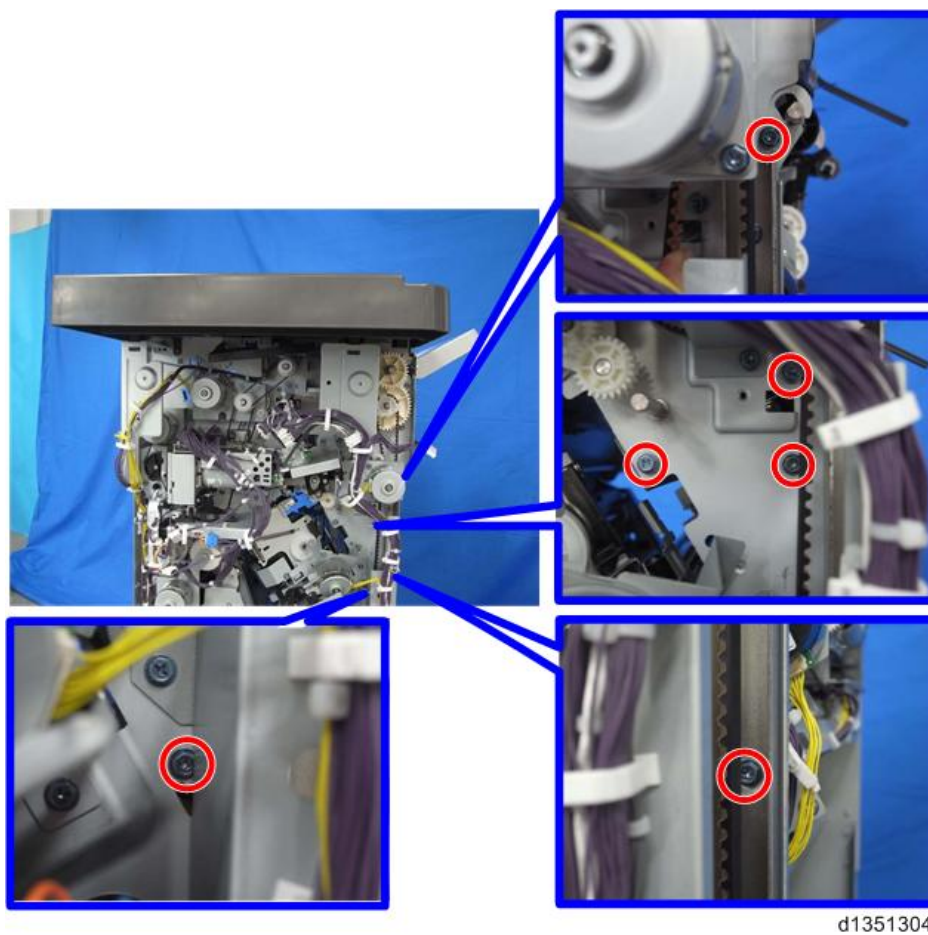




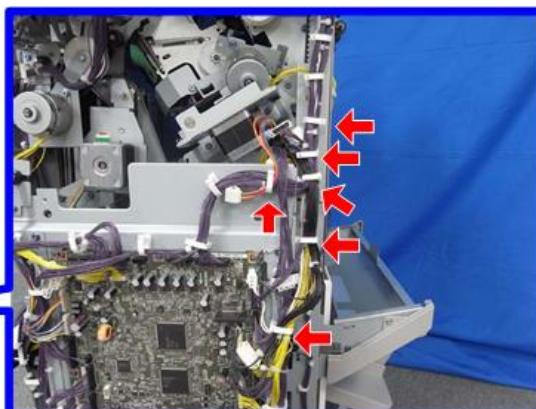
7. Pulley [A] (hook × 1)



8. Screws from the rear side of the finisher (⌀×6).

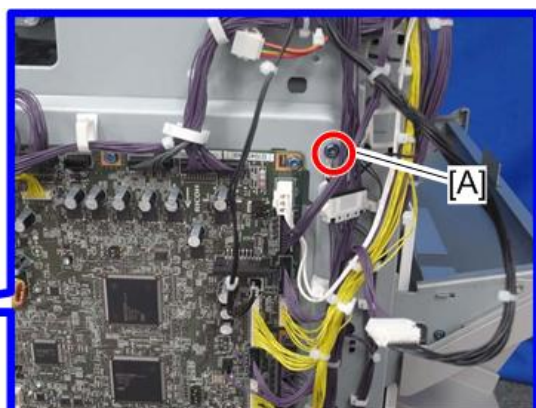


9. Release six clamps (🔧×6).



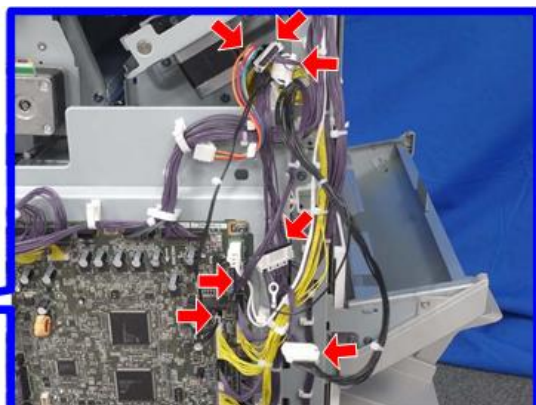
d1351305

10. Ground wire [A] (🔌×1).



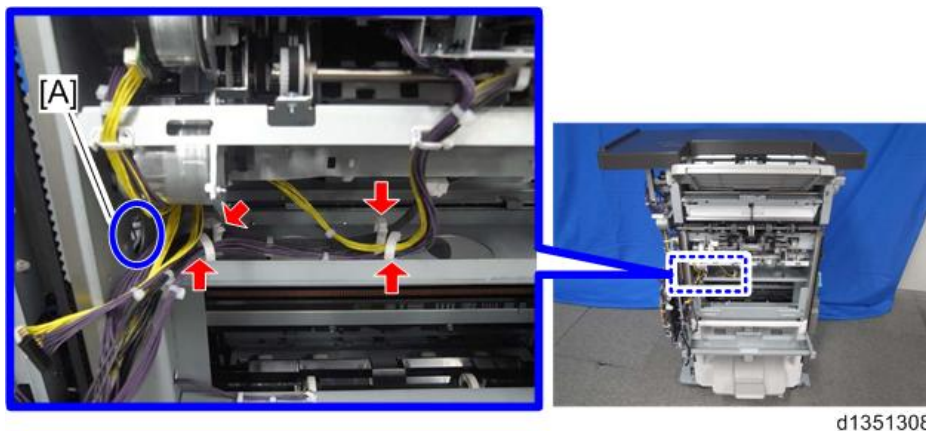
d1351306

11. Disconnect the connectors shown below (🔌×7).



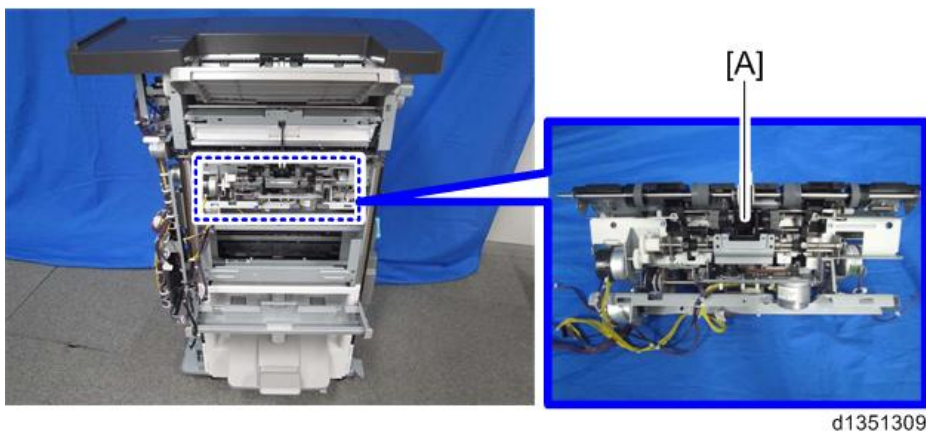
d6890017

12. Pull out the harnesses disconnected in step 13 to the right side of the finisher through the hole [A].
13. Release four clamps (🔧×4).



d1351308

14. corner stapling unit [A]



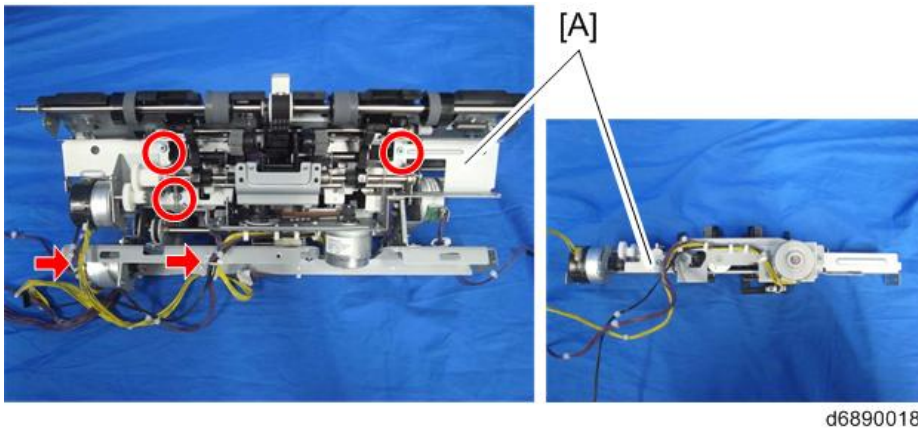
d1351309

## Stacking Roller Motor

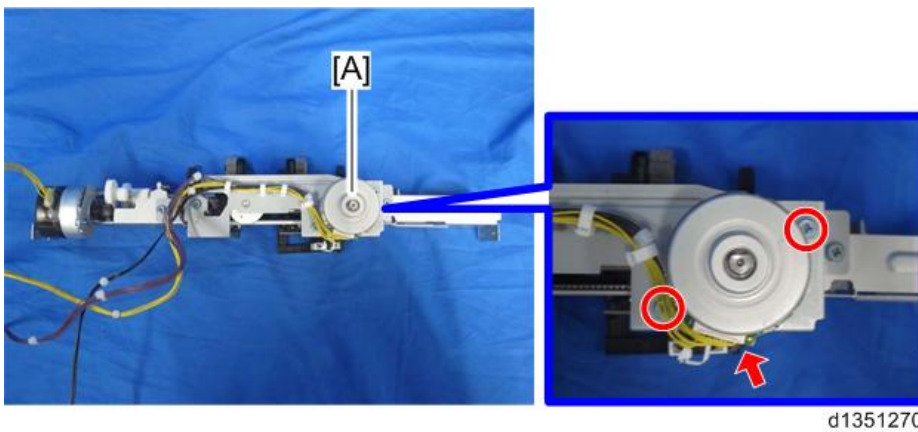
1. Corner stapling unit (page 21)



2. Stapler bracket [A] (⚙️×3, 🛠️×2)



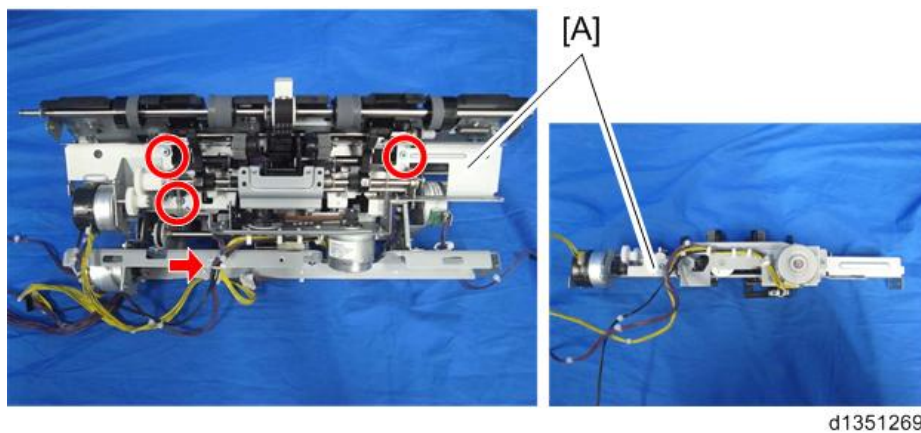
3. Stacking roller motor [A] (⚙️×2, 📦×1)



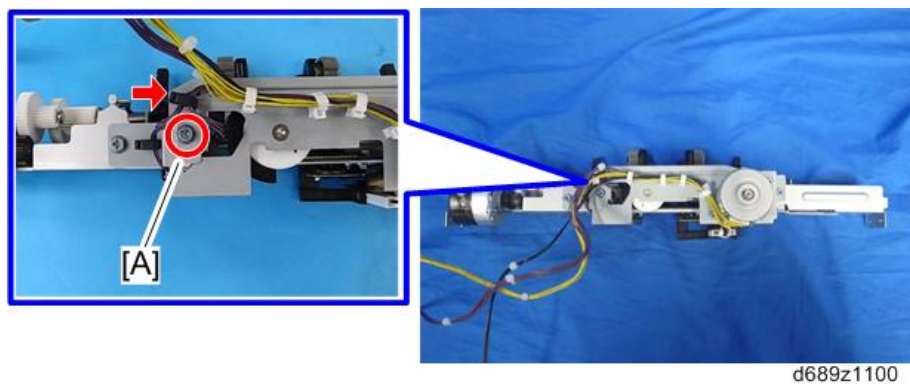
## Stacking Roller HP Sensor

1. Corner stapling unit (page 21)

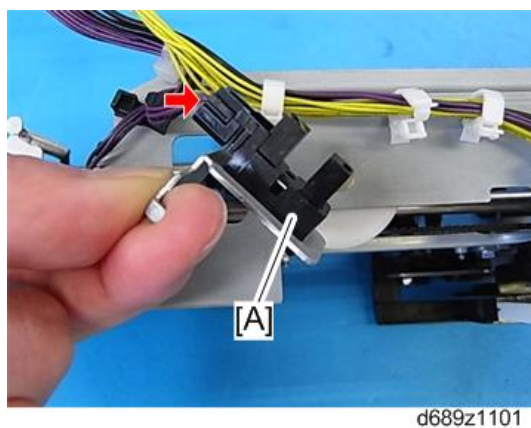
2. Stapler bracket [A] (🔩×3, 🛠️×1)



3. Stacking roller HP sensor bracket [A] (🔩×1, 🛠️×1)



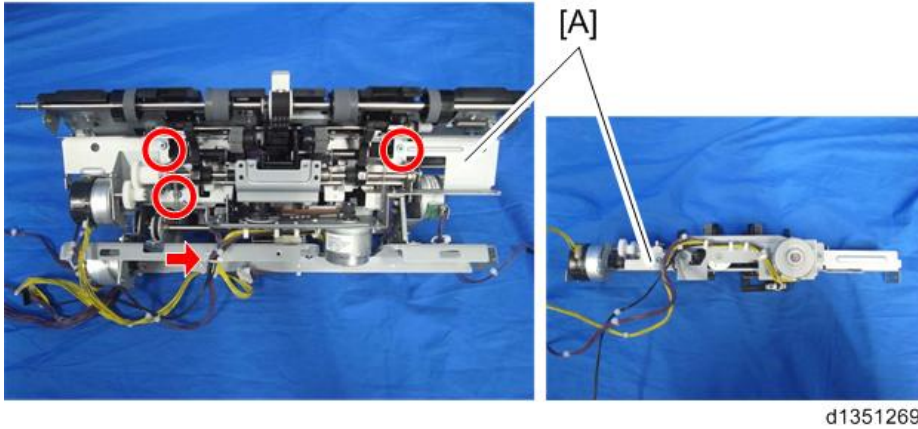
4. Stacking roller HP sensor [A] (📦×1)



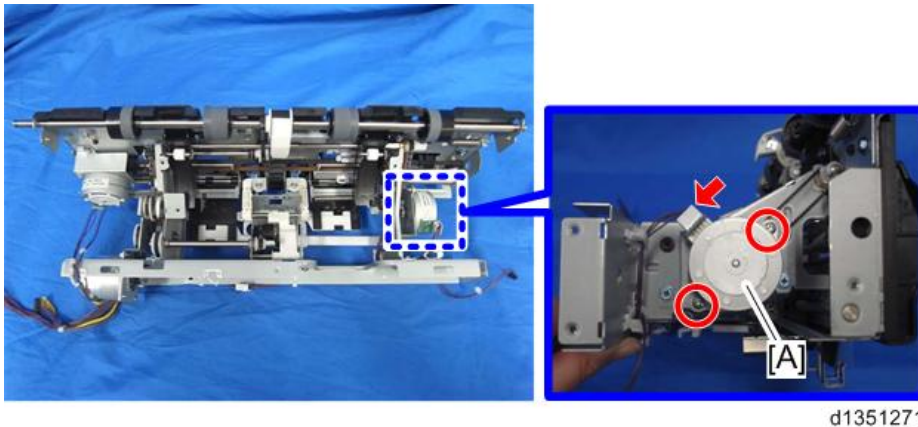
## Leading Edge Guide Motor

1

1. Corner stapling unit (page 21)
2. Stapler bracket [A] (🔩×3, 📦×1)



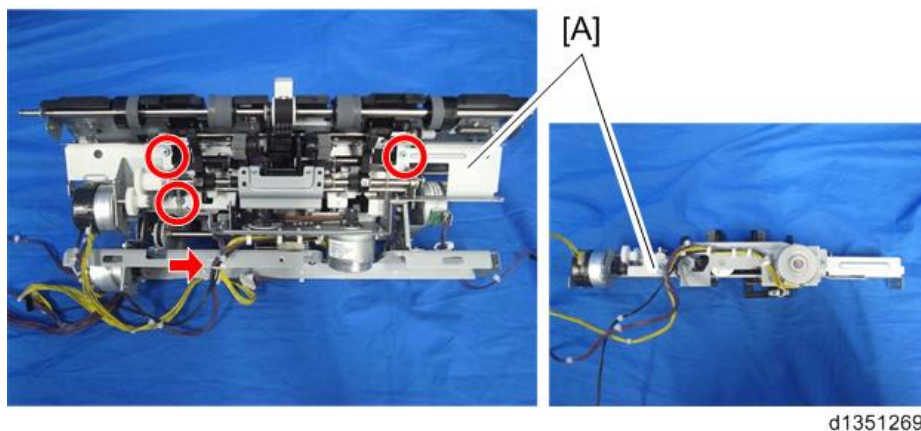
3. Leading edge guide motor [A] (🔩×2, 📦×1)



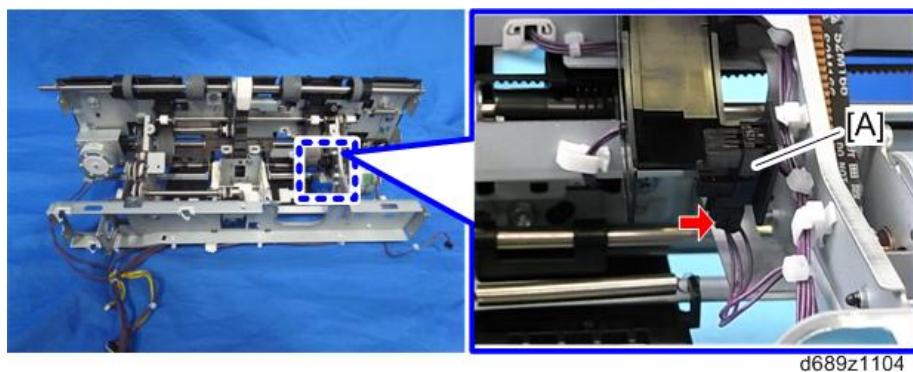
## Leading Edge Guide HP Sensor

1. Corner stapling unit (page 21)

## 2. Stapler bracket [A] (🔩×3, 🛠️×1)



## 3. Leading edge guide HP sensor [A] (📦×1)

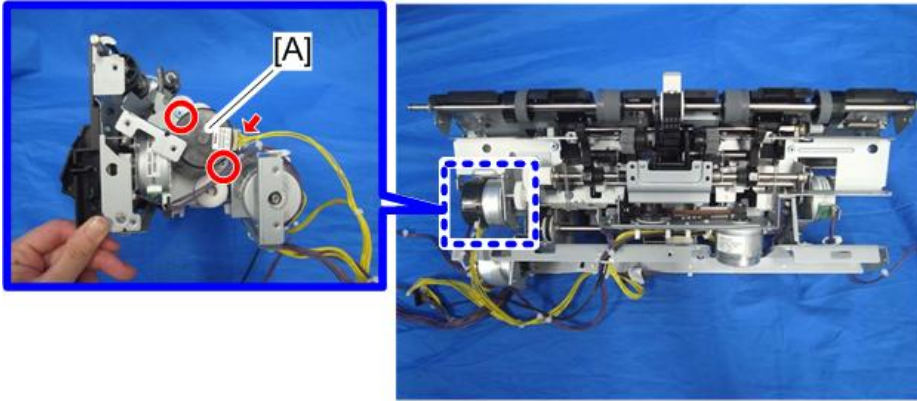


# Trailing Edge Pressure Plate Motor

## 1. Corner stapling unit (page 21)



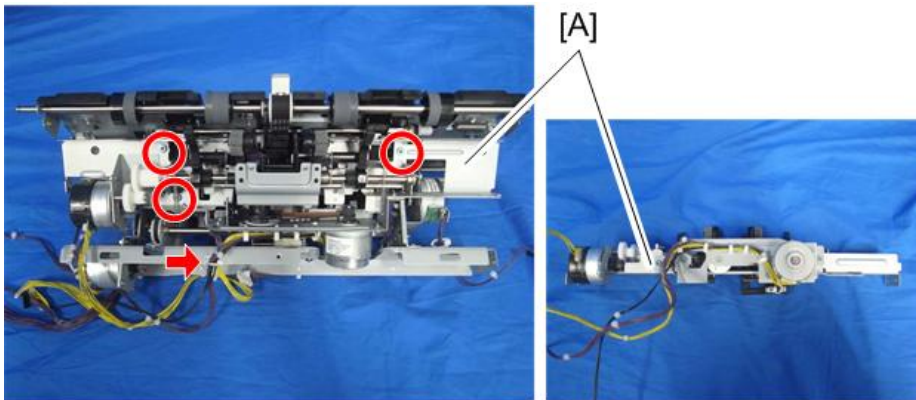
2. Trailing edge pressure plate motor [A] (⚙️ × 2, 📦 × 1)



d1351272

## Trailing Edge Pressure Plate HP Sensor

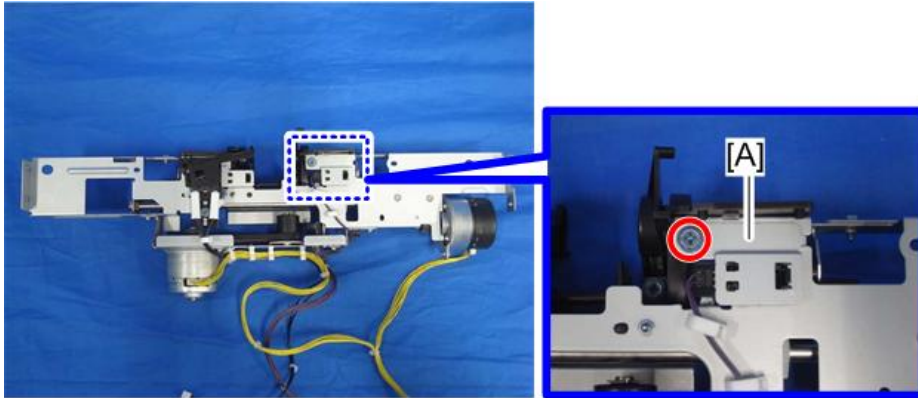
1. Corner stapling unit (page 21)
2. Stapler bracket [A] (⚙️ × 3, 📦 × 1)



d1351269

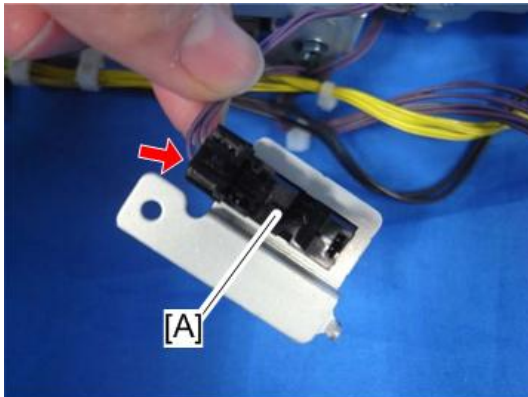


3. Turn back the stapler bracket, and remove the trailing edge pressure plate HP sensor bracket [A] (🔧×1)



d1351290

4. Trailing edge pressure plate HP sensor [A] (🔧×1)

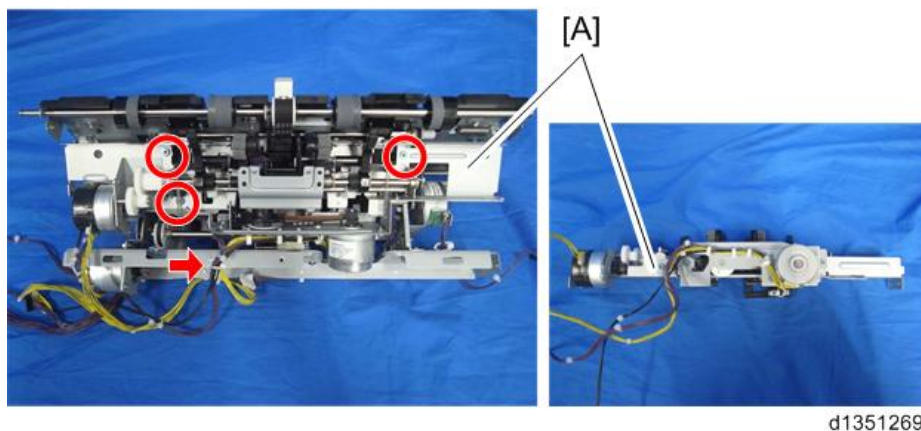


d1351291

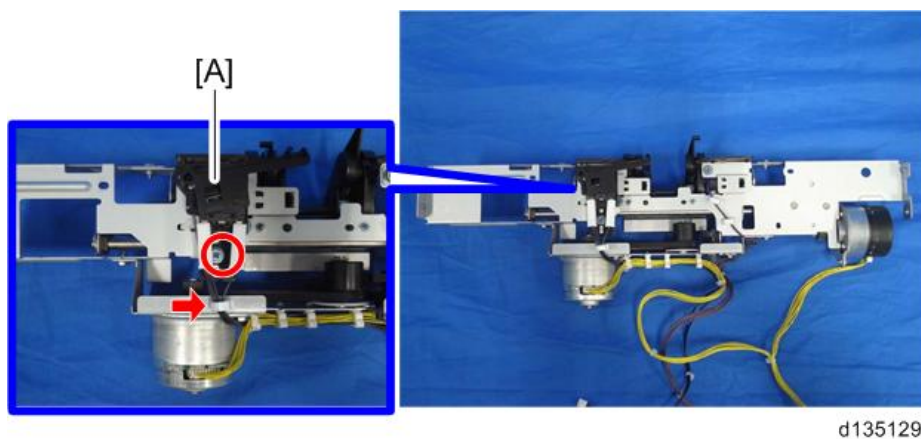
## Shift Tray Paper Sensor

1. Corner stapling unit (page 21)

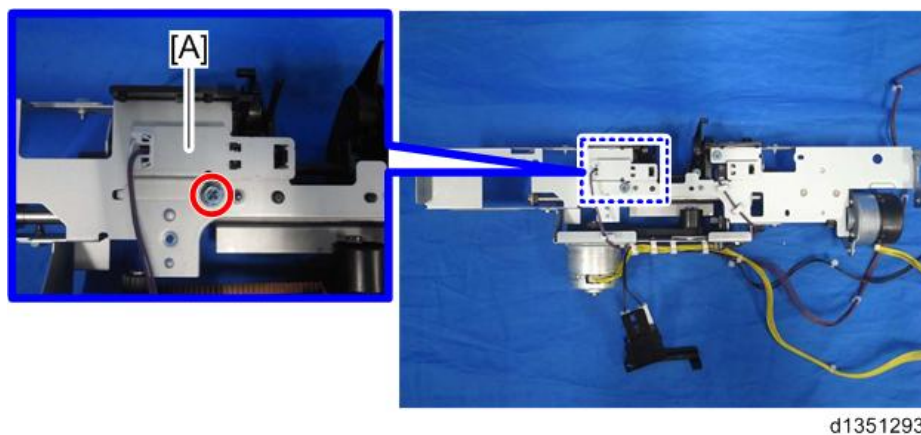
2. Stapler bracket [A] (⚙️×3, 🛠️×1)



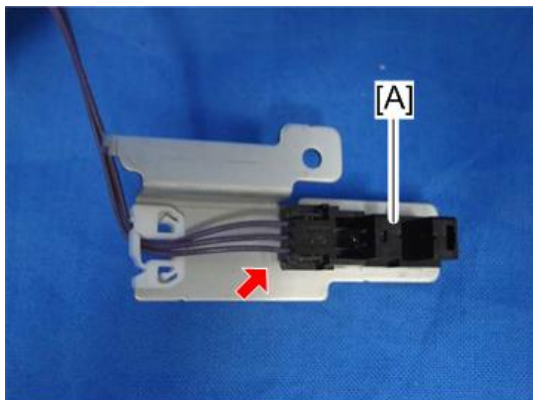
3. Turn back the stapler bracket, and remove the tray upper limit switch [A] (⚙️×1, 🛠️×1)



4. Shift tray paper sensor bracket [A] (⚙️×1)



## 5. Shift tray paper sensor [A] (📦 ×1)

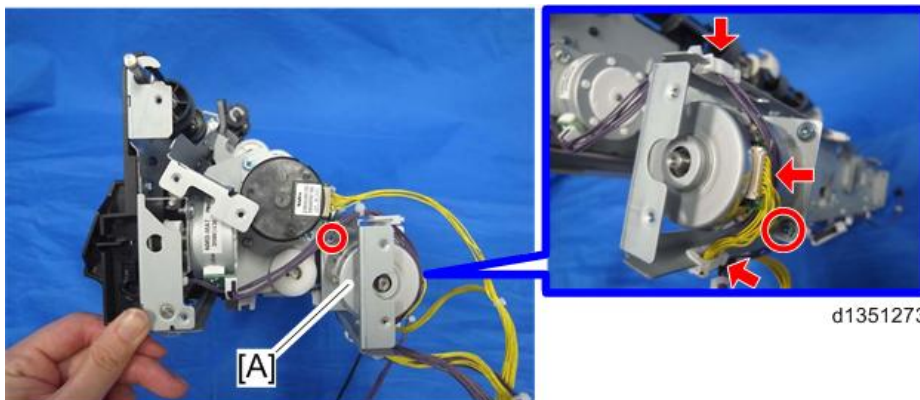


d1351294

1

## Feed Out Motor

1. Corner stapling unit (page 21)
2. Feed out motor [A] (🔩 ×2, 📦 ×1, 🛠 ×2)

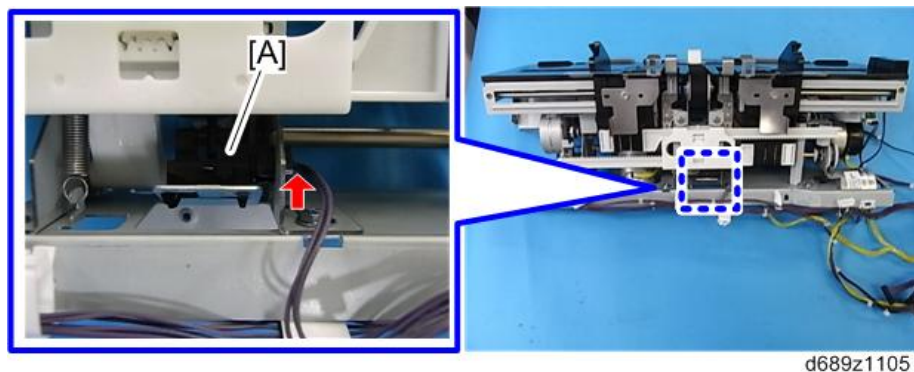


d1351273

## Feed Out Guide HP Sensor

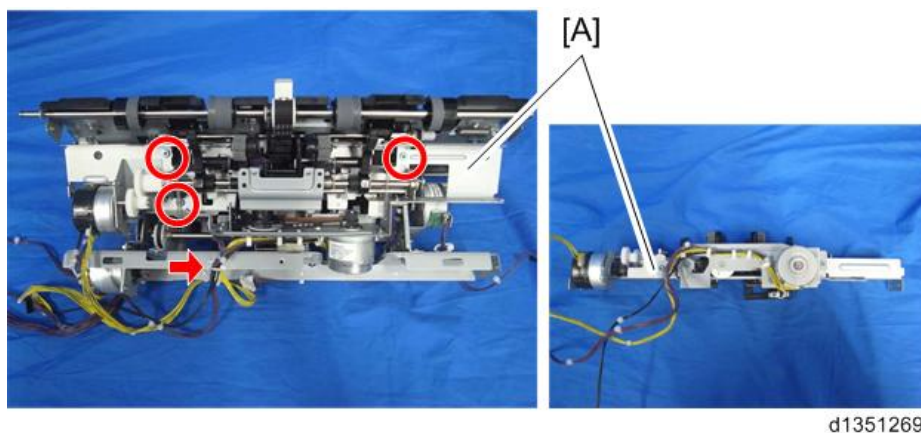
1. Corner stapling unit (page 21)

2. Feed out guide HP sensor [A] (📦 ×1)



## Jogger Motor

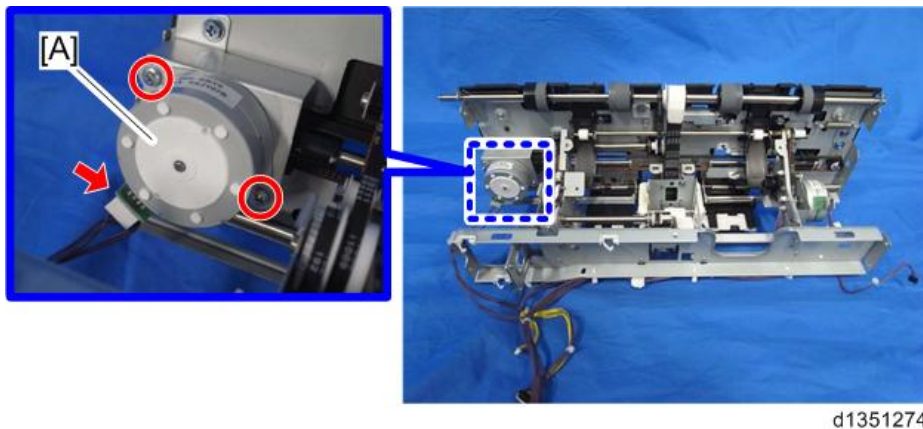
1. Corner stapling unit (page 21)
2. Stapler bracket [A] (🔩 ×3, 📦 ×1)



3. Feed out motor (page 33)

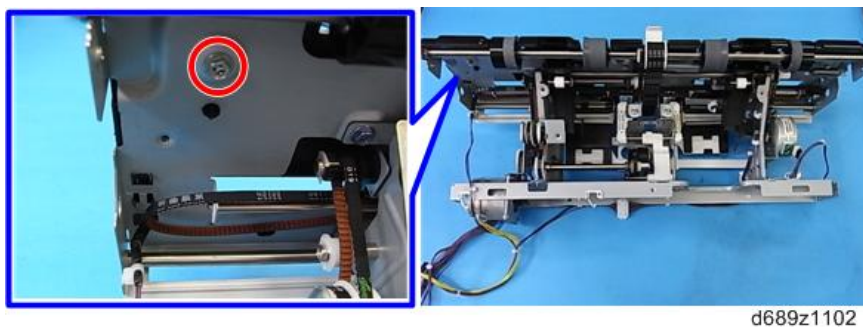


4. Jogger motor [A] (⚙️×2, 📦×1)

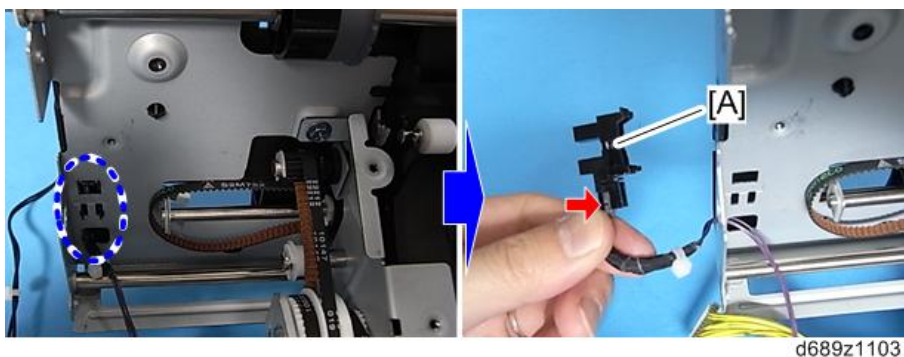


## Jogger HP Sensor

1. Jogger motor (page 34)
2. Screw (⚙️×1)



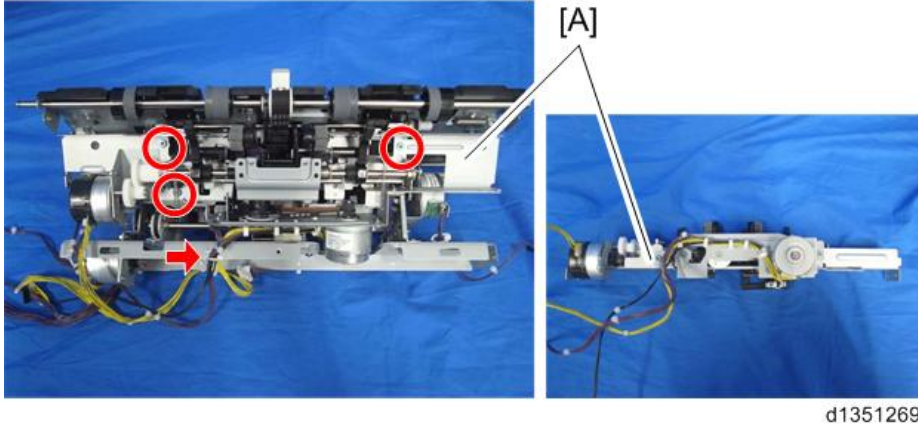
3. Jogger HP sensor [A] (📦×1)



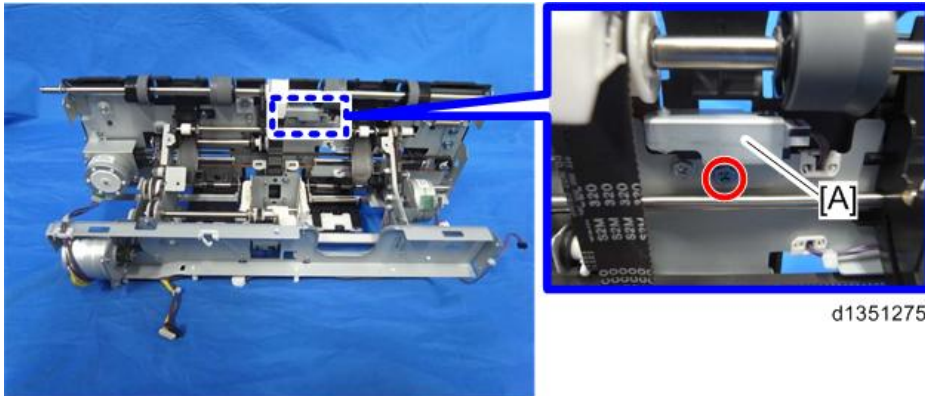
## Shift Tray Exit Sensor

1

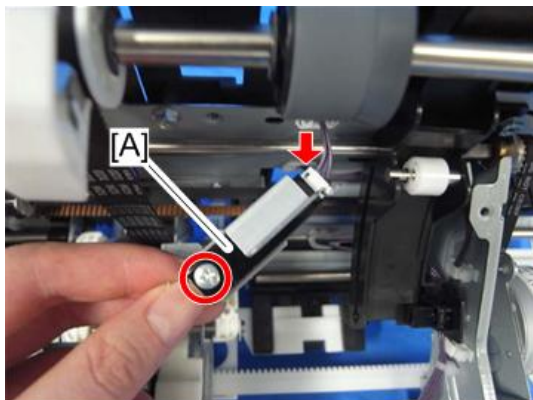
1. Corner stapling unit (page 21)
2. Stapler bracket [A] (⚙️×3, 🛠️×1)



3. Shift tray exit sensor bracket [A] (⚙️×1)



4. Shift tray exit sensor [A] (⚙️×1, 📦×1)

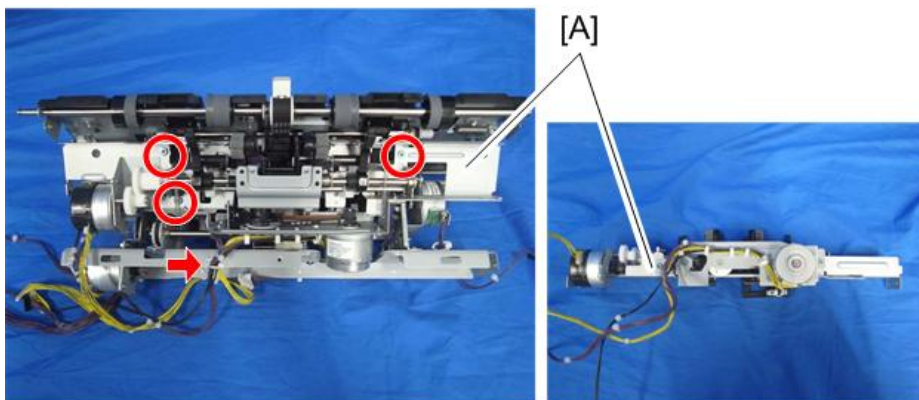


d1351276

1

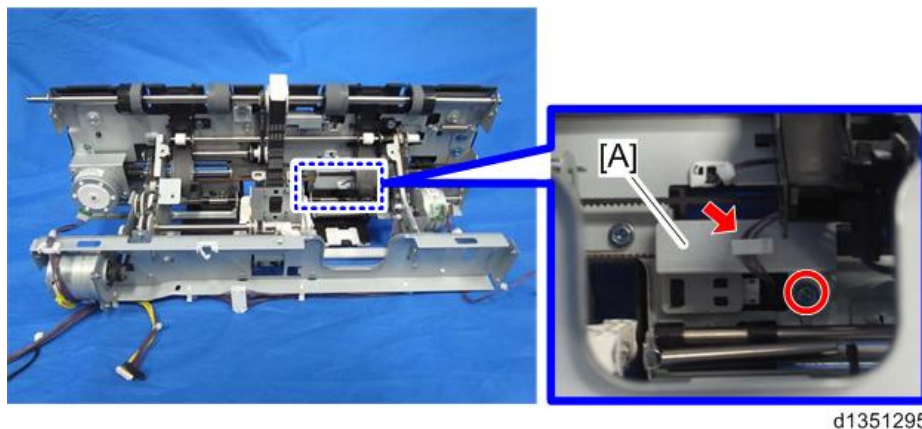
## Staple Tray Paper Sensor

1. Corner stapling unit (page 21)
2. Stapler bracket [A] (⚙️×3, 📦×1)

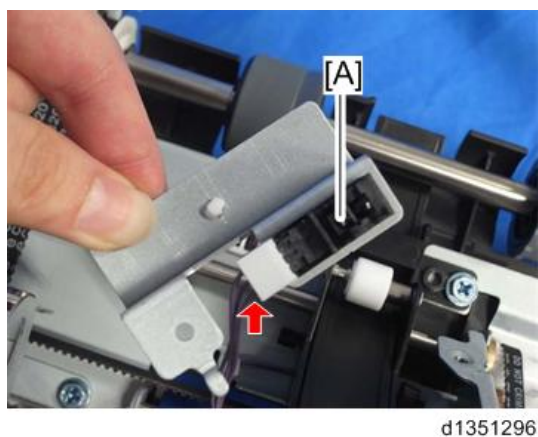


d1351269

3. Staple tray paper sensor bracket [A] (🔩×1, 🛡️×1)



4. Staple tray paper sensor [A] (📦×1)



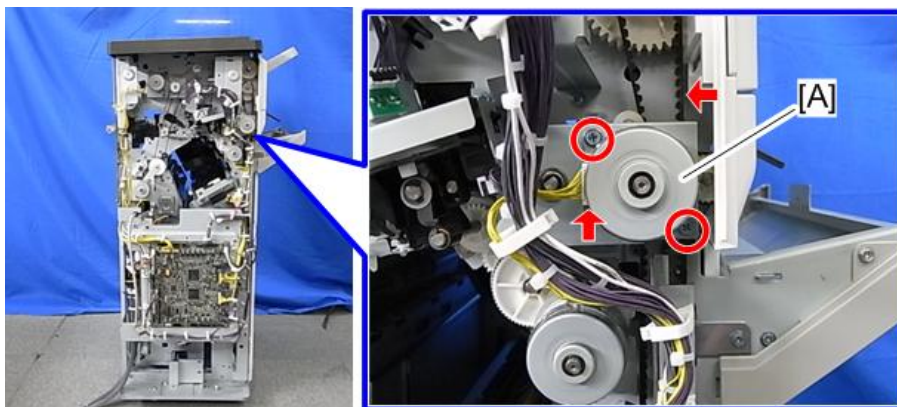


# Main Unit

## Tray Exit Motor

1

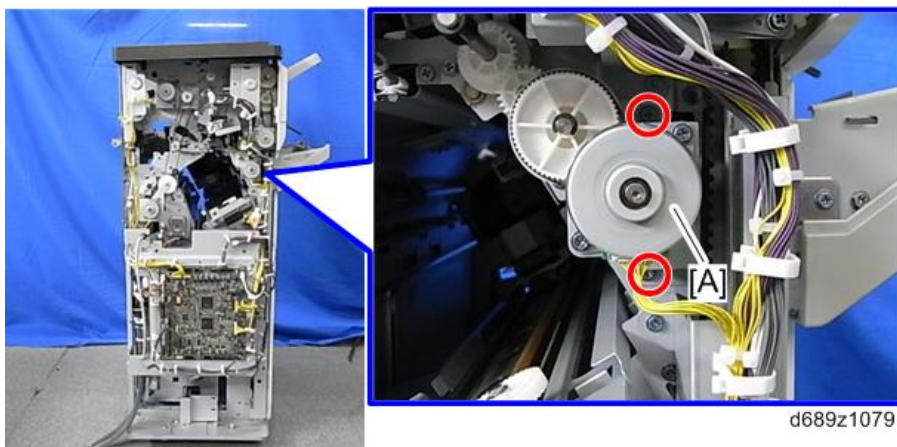
1. Rear upper cover (page 7)
2. Tray exit motor [A] (⌀×2, ⌀×1, ⌀×1)



d689z1046

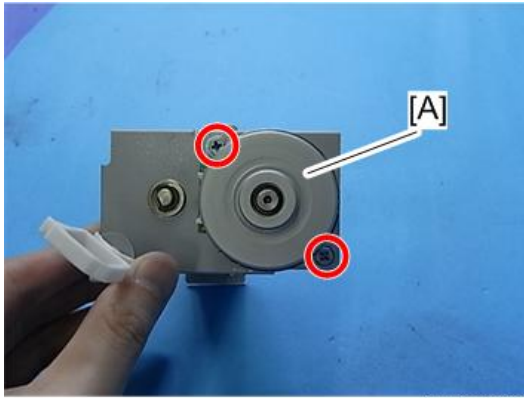
## Middle Transport Motor

1. Rear upper cover (page 7)
2. Middle transport motor bracket [A] (⌀×2, ⌀×1, ⌀×1)



d689z1079

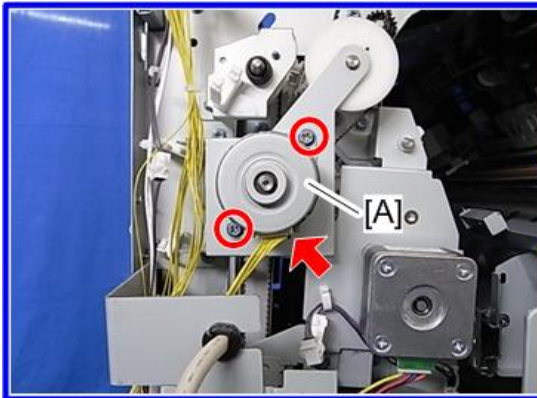
### 3. Middle transport motor [A] (⌀ × 2)



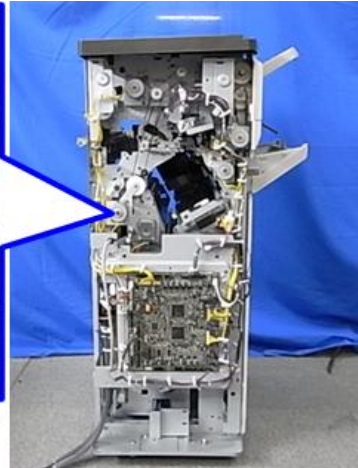
d689z1080

## Pre-stack Transport Motor

1. Rear upper cover (page 7)
2. Pre-stack transport motor [A] (⌀ × 2, ⌀ × 1, ⌀ × 1)



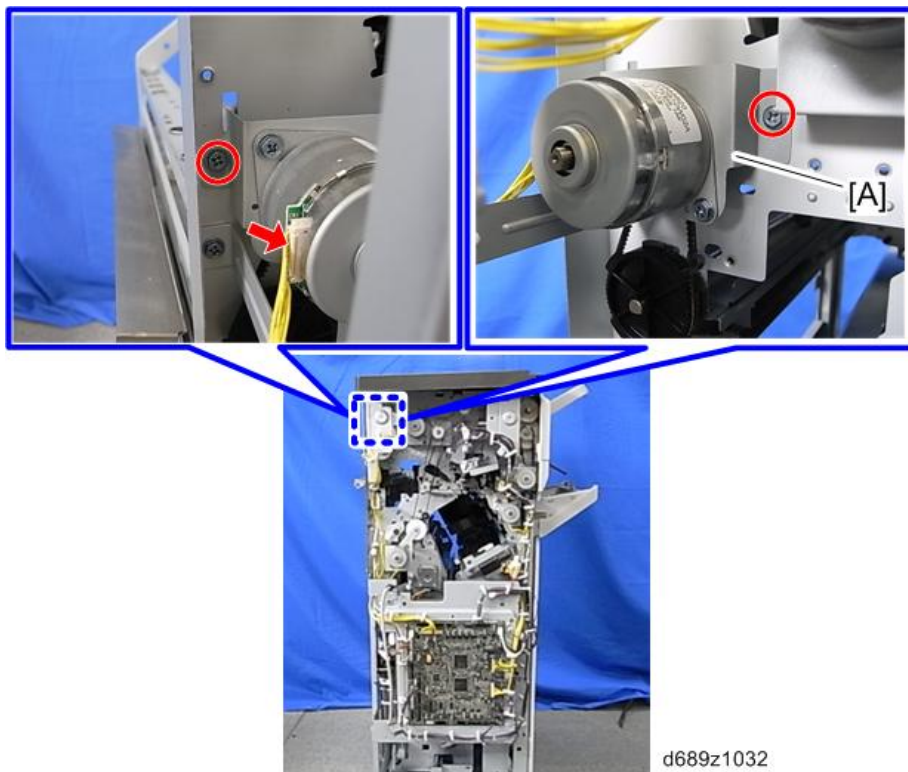
d689z1078



## Entrance Transport Motor

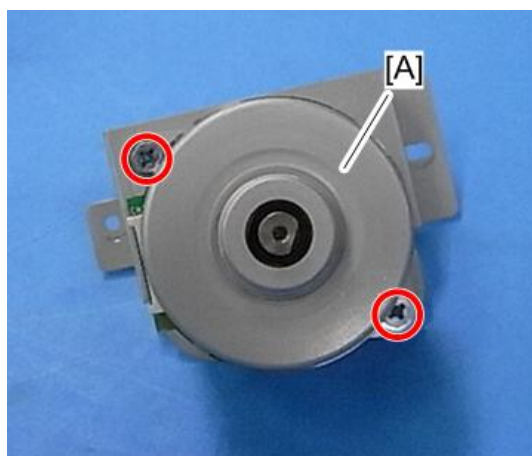
1. Rear upper cover (page 7)

## 2. Entrance transport motor bracket [A] (⚙️×2, 📦×1, 🌀×1)



d689z1032

## 3. Entrance transport motor [A] (⚙️×2)

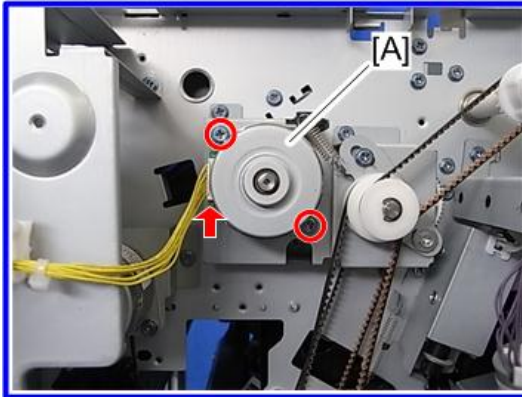


d689z1205

## Horizontal Transport Motor

### 1. Rear upper cover (page 7)

2. Horizontal transport motor [A] (⚙️×2, 📦×1, 🌀×1)

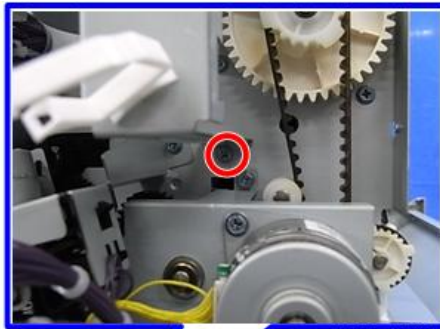
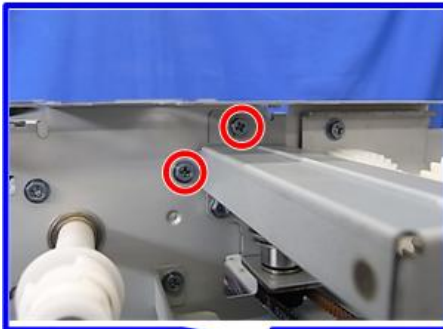


d689z1033

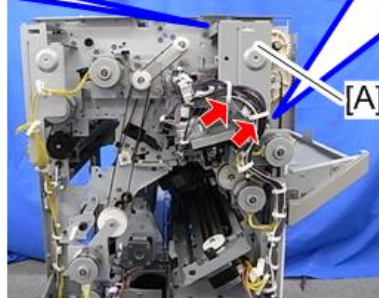


## Tray Lift Motor

1. Rear upper cover (page 7)
2. Upper cover (page 7)
3. Bracket [A] (⚙️×3, 📦×2)

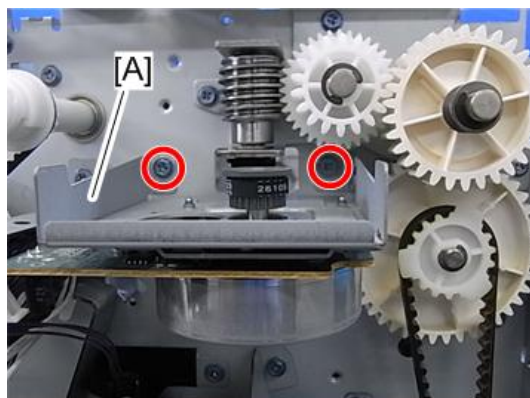


d689z1047



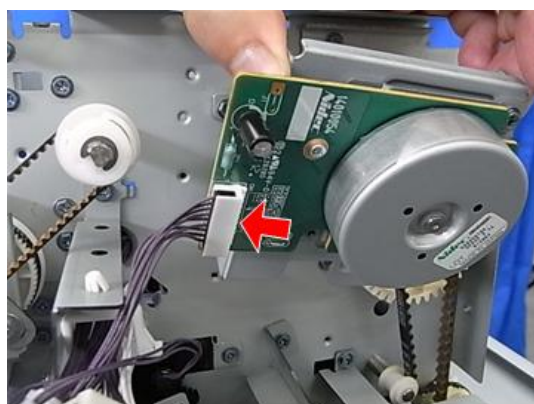


#### 4. Tray lift motor bracket [A] (⚙️×2)



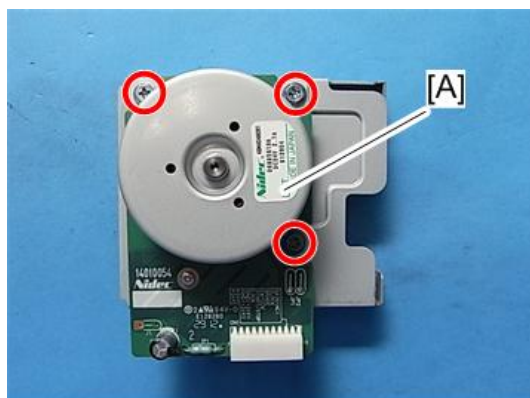
d689z1048

#### 5. Turn back the tray lift motor bracket, and remove the connector and timing belt (⚙️×1, ⚙️×1)



d689z1049

#### 6. Tray lift motor [A] (⚙️×3)

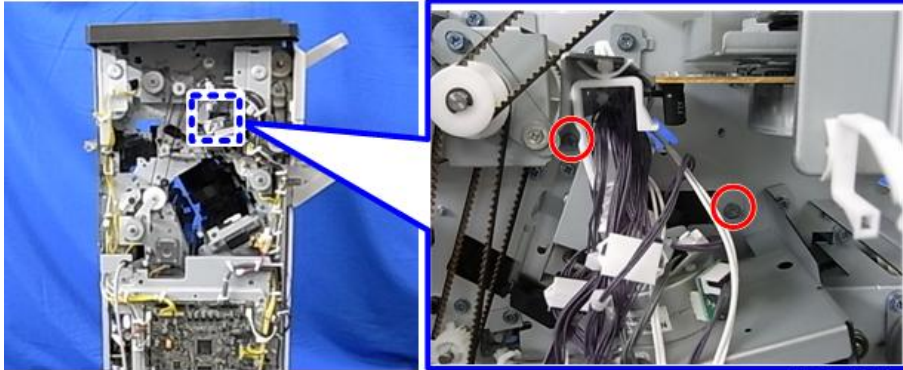


d689z1050

## Lower Junction Gate Motor

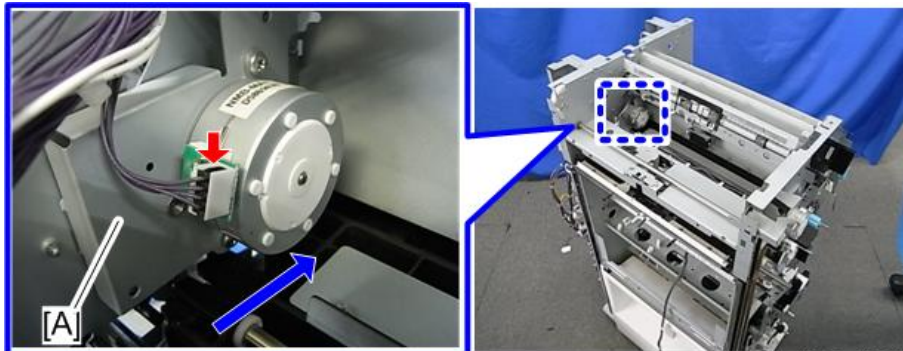
1

1. Rear upper cover (page 7)
2. Upper cover (page 7)
3. Proof tray (page 12)
4. Screws (🔩 ×2)



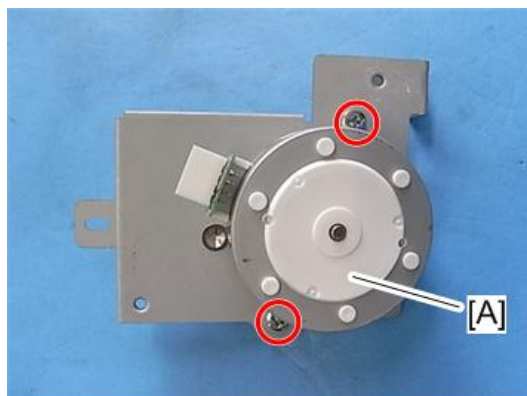
d689z1073

5. Remove the lower junction gate motor bracket [A] while sliding it (📦 ×1)



d689z1034

## 6. Lower junction gate motor [A] (⚙️×2)

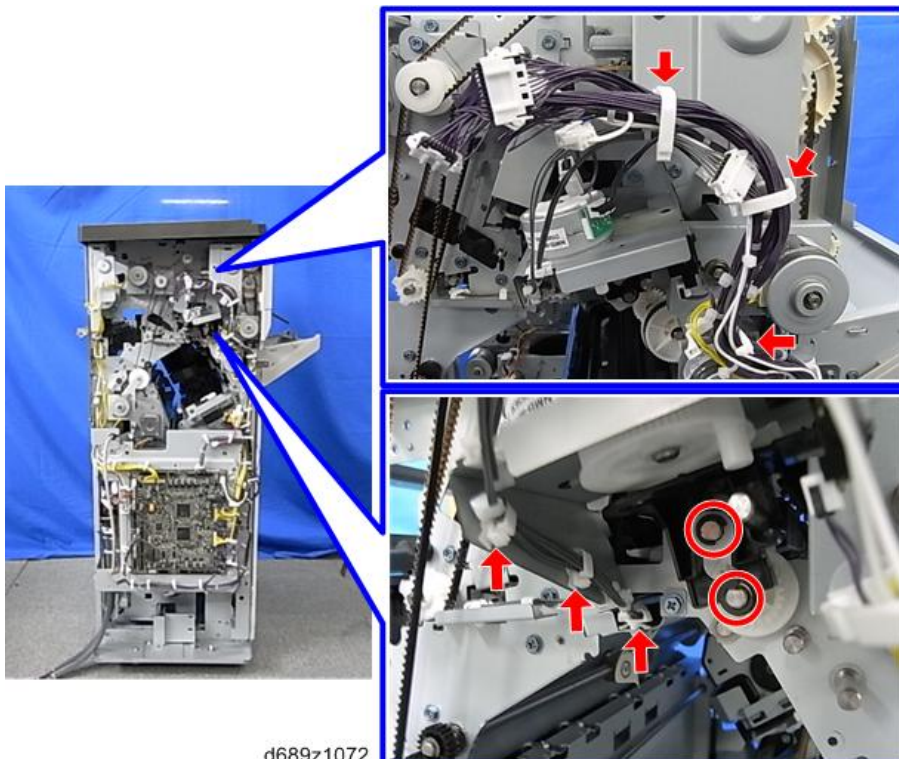


d689z1075

1

## Shift Motor / Lower Junction Gate HP Sensor / Shift Roller HP Sensor

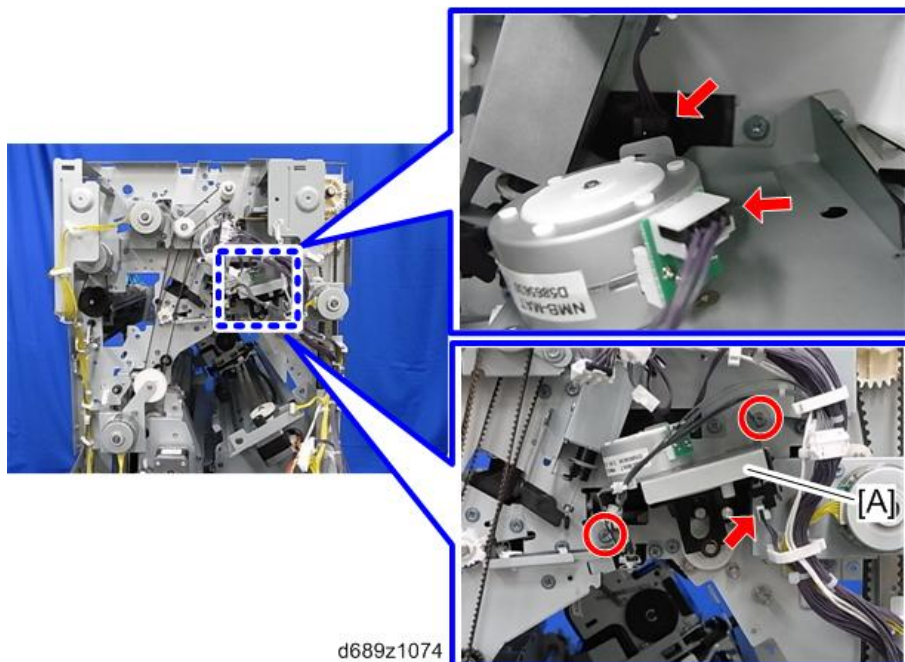
1. Rear upper cover (page 7)
2. Upper cover (page 7)
3. Clamps and E-rings (⚙️×6, ⚙️×2)



d689z1072

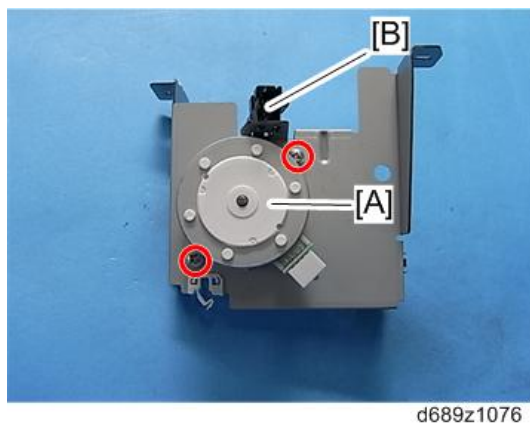


4. Shift motor bracket [A] (⚙️ ×2, 📦 ×3)

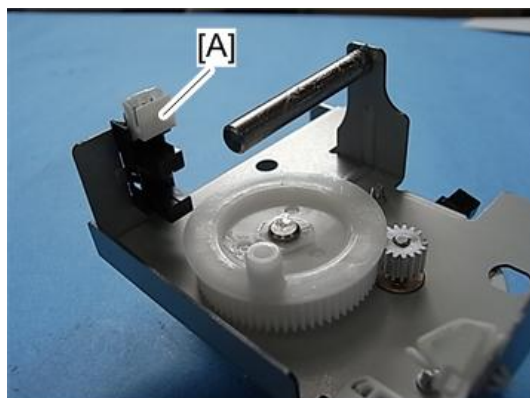


5. Shift motor [A] (⚙️ ×2)

6. Lower junction gate HP sensor [B]



## 7. Shift roller HP sensor [A]

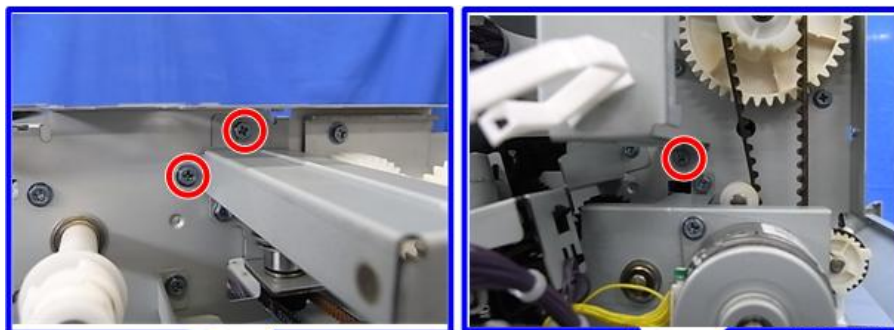


d689z1077

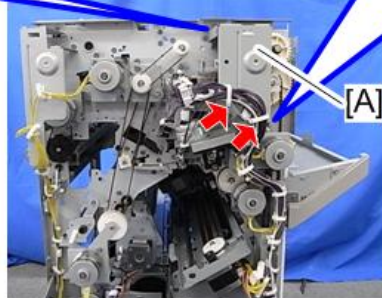
1

## Paper Exit Gate Motor

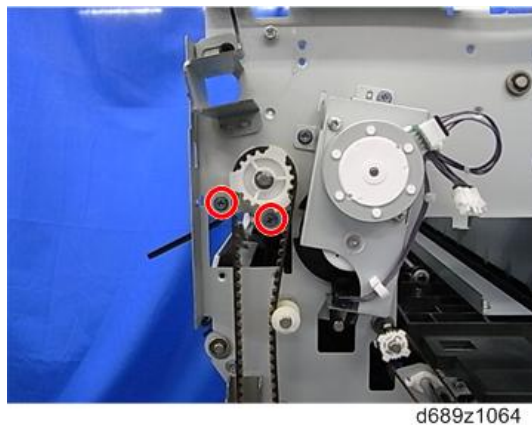
1. Rear upper cover (page 7)
2. Upper cover (page 7)
3. Front inner cover (page 7)
4. Proof tray (page 12)
5. Bracket [A] (⌀×3, ⌀×2)



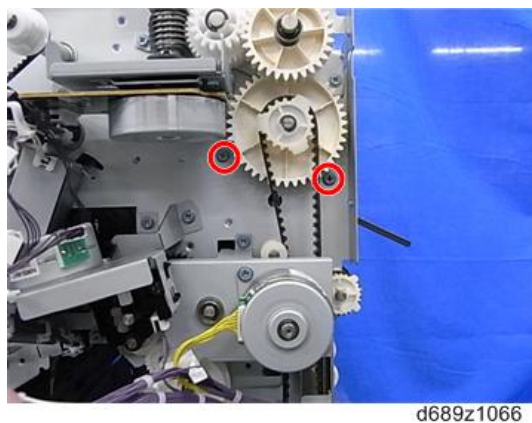
d689z1047



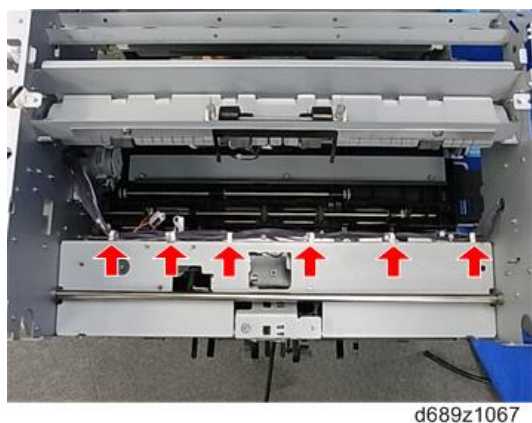
6. Screws on the rear side (🔩×2)



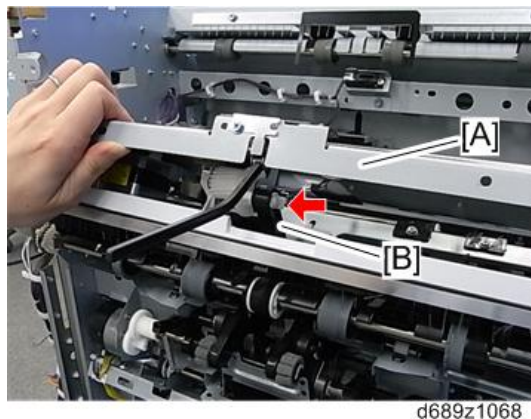
7. Screws on the front side (🔩×2)



8. Clamps in the proof tray (🔧×6)

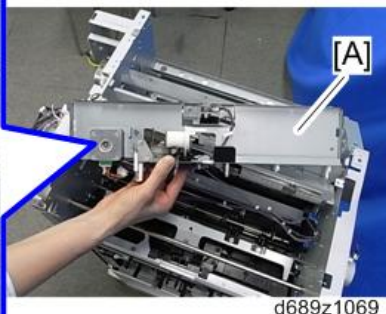
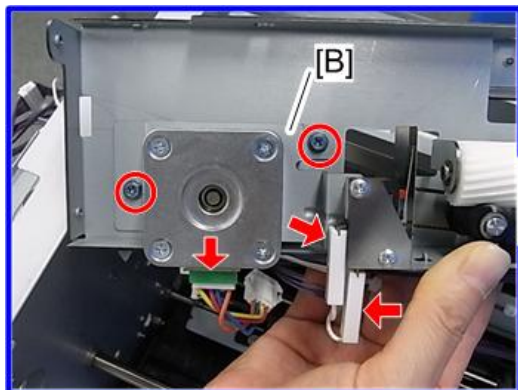


9. Hold up the paper exit guide plate [A] to remove the clip [B] (⌀×1)



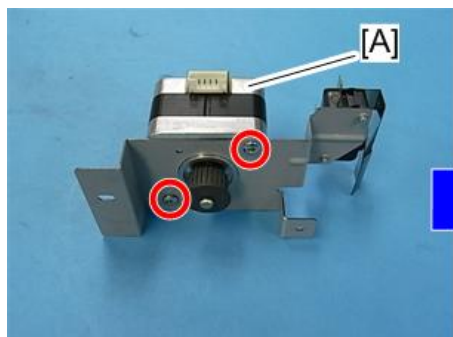
d689z1068

10. Turn back the paper exit guide plate [A] to remove the paper exit gate motor bracket [B] (⌀×2, □×3, ⌀×1)



d689z1069

11. Paper exit gate motor [A] (⌀×2)



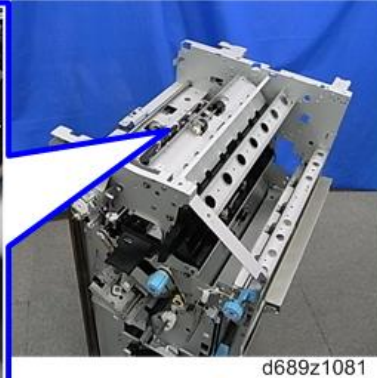
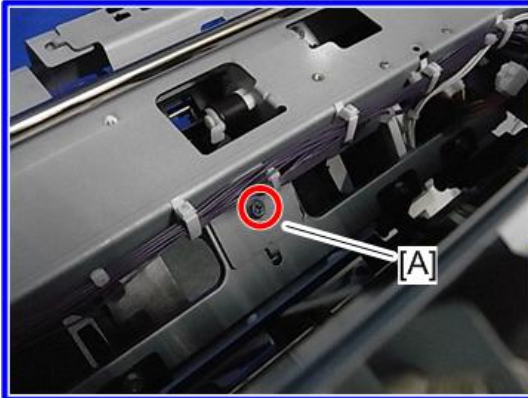
d689z1070



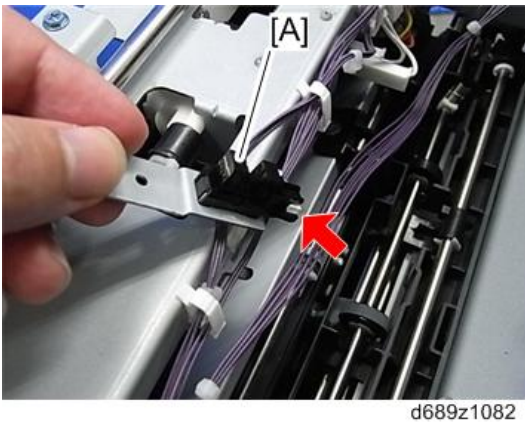
## Paper Exit Gate HP Sensor

1

1. Rear upper cover (page 7)
2. Proof tray (page 12)
3. Paper exit gate HP sensor Bracket [A] (🔩×1)



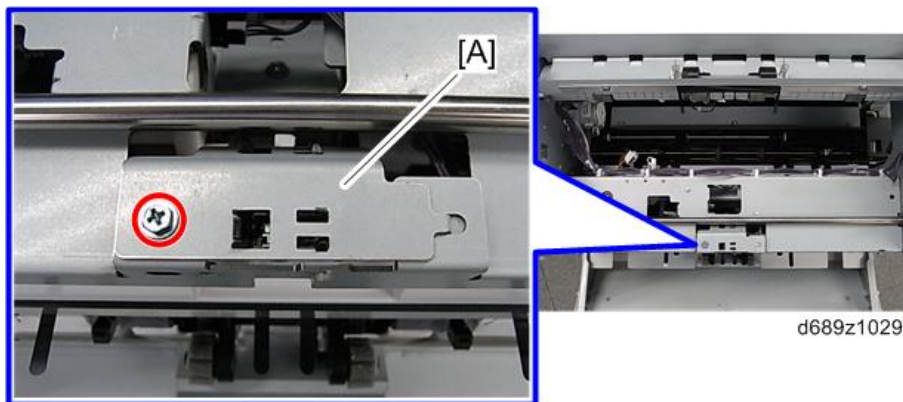
4. Turn back the bracket to remove the connector (🔌×1)



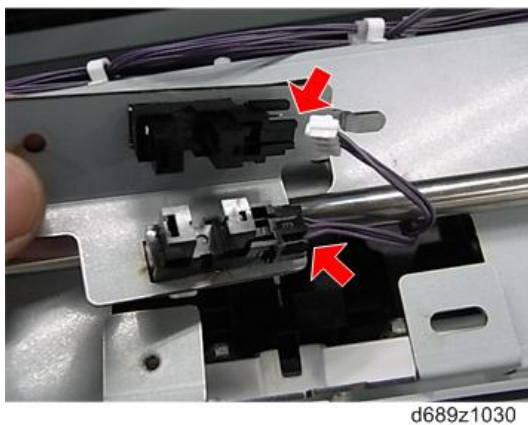
## Corner Stapling Paper Sensors

1. Upper cover (page 7)
2. Proof tray (page 12)

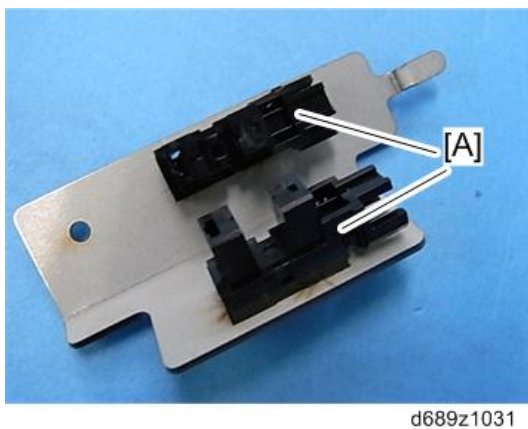
### 3. Bracket [A] (🔩×1)



### 4. Turn the bracket to remove the connector (🔌×2)



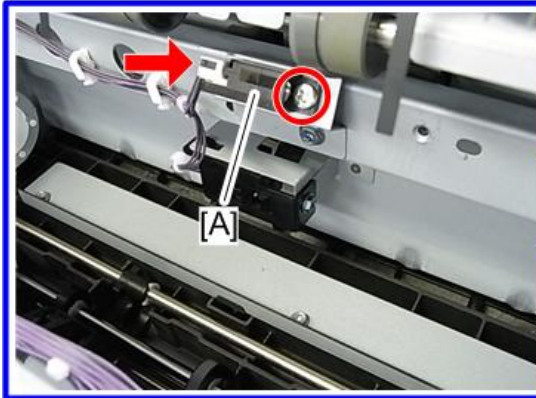
### 5. Corner stapling paper sensors [A]





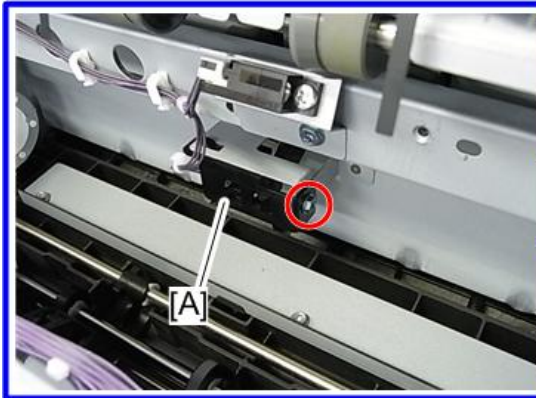
## Proof Tray Full Sensor

1. Upper cover (page 7)
2. Proof tray (page 12)
3. Proof tray full sensor bracket [A] (⌀×1, □×1)

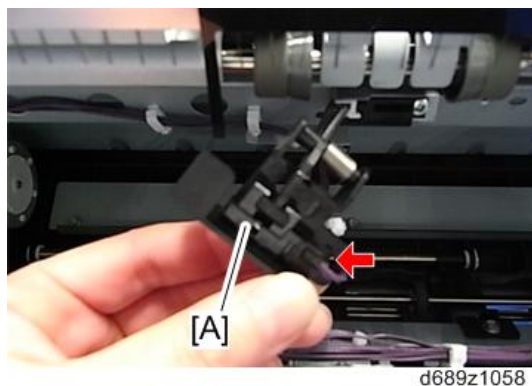


## Proof Tray Exit Sensor

1. Rear upper cover (page 7)
2. Proof tray (page 12)
3. Proof tray exit sensor bracket [A] (⌀×1)



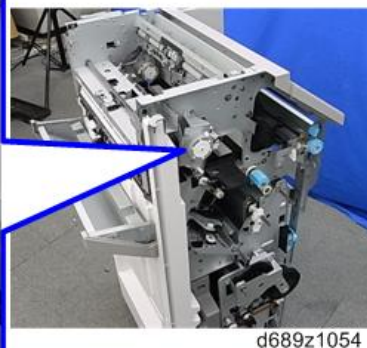
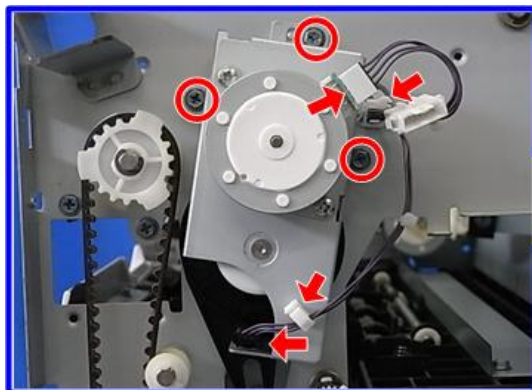
#### 4. Proof tray exit sensor [A] (📦 ×1)



1

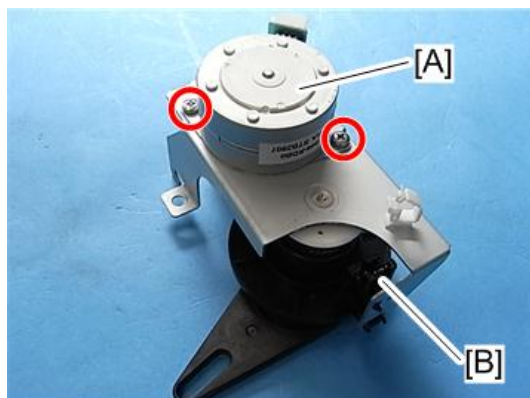
### Positioning Roller Motor / Feed Out Guide HP Sensor

1. Front inner cover (page 9)
2. Positioning roller motor bracket [A] (🔩 ×3, 📦 ×2, 🛠 ×2)



3. Positioning roller motor [A] (🔩 ×2, 🛠 ×1)

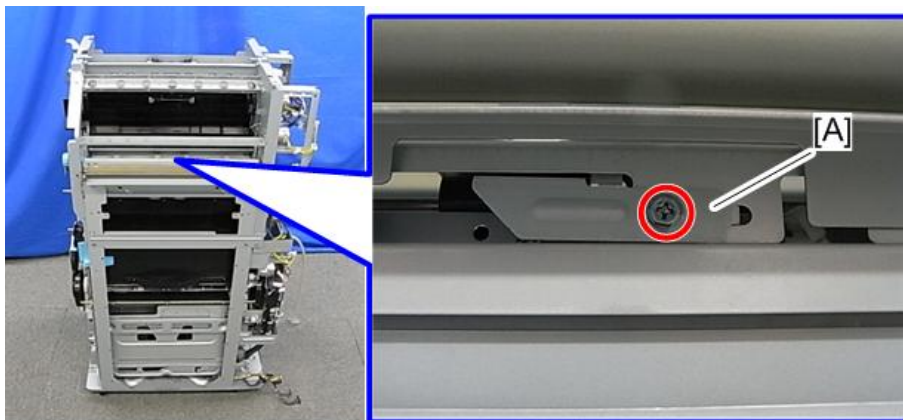
#### 4. Feed out guide HP sensor [B]



d689z1055

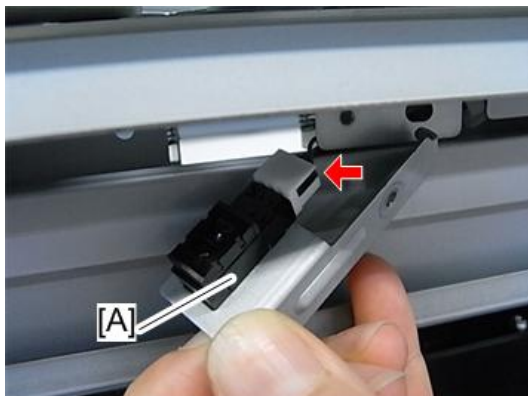
### Entrance Sensor

#### 1. Entrance sensor bracket [A] (⌀ × 1)



d689z1062

## 2. Entrance sensor [A] (📦 ×1)

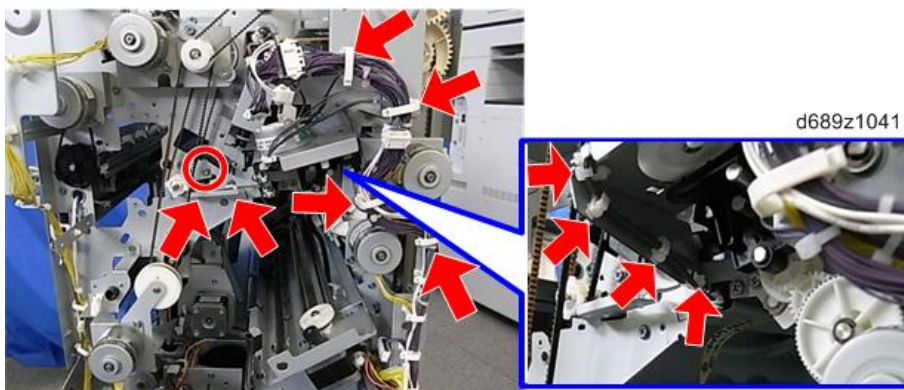


d689z1063

1

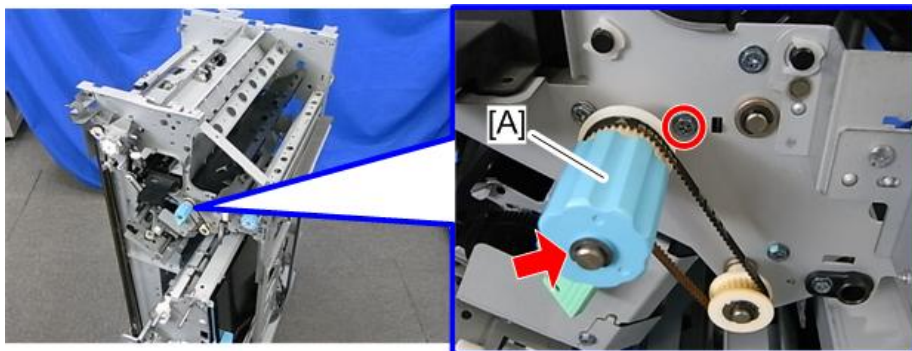
## Horizontal Transport Sensor

1. Rear upper cover (page 7)
2. Front inner cover (page 9)
3. Screw and clamps (🔩 ×1, 📎 ×10)



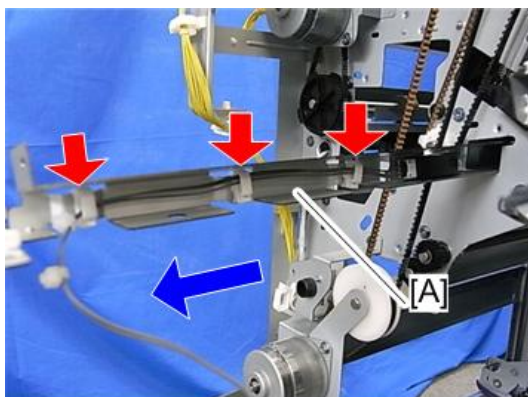
d689z1041

4. Remove the knob [A] and screw (🔩×1, 🛡️×1)



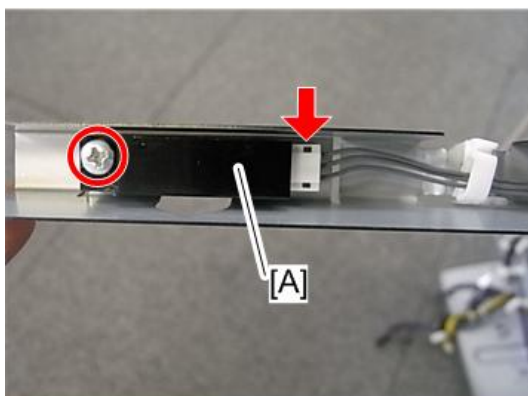
d689z1042

5. Pull out the bracket [A] (🔩×3)



d689z1043

6. Horizontal transport sensor [A] (🔩×1, 📦×1)



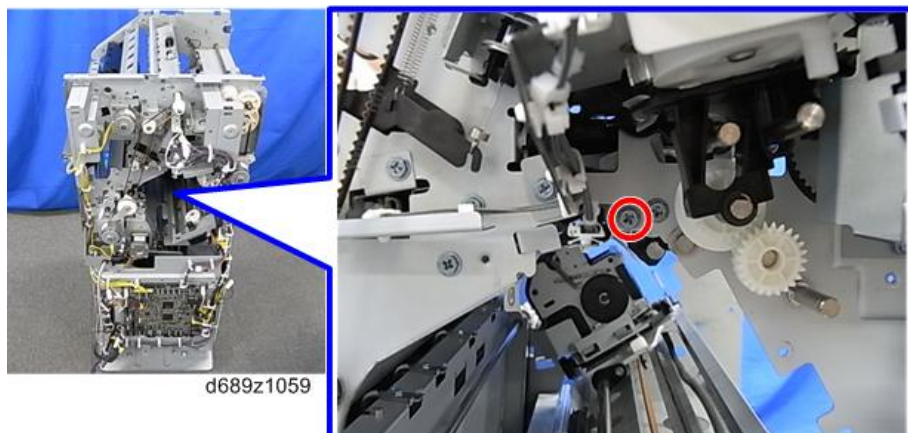
d689z1044



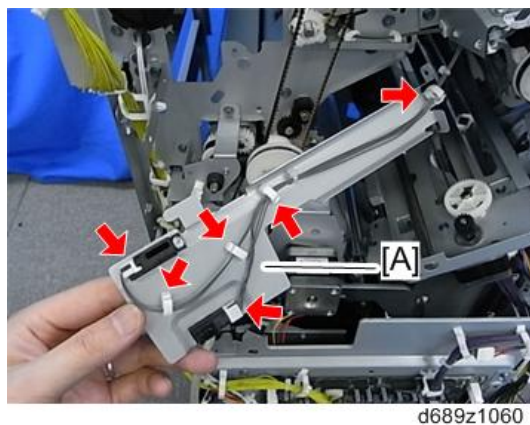
## Switchback Transport Sensor / Paper Transport Sensor

1. Rear upper cover (page 7)
2. Screw (🔩×1)

1



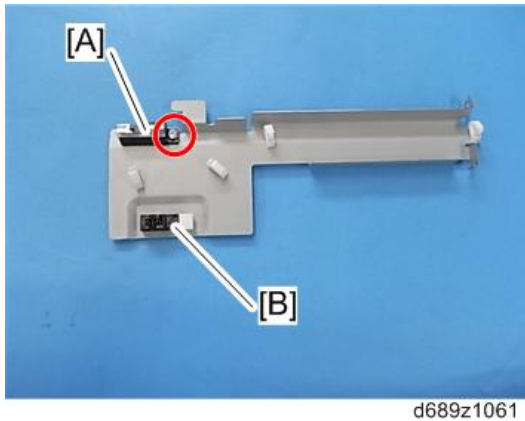
3. Pull out the bracket [A] (📦×2, 🔩×4)



4. Switchback transport sensor [A] (🔩×1)



## 5. Paper transport sensor [B]



## Shift Tray Lower Limit Sensors

1. Rear upper cover (page 7)
2. Rear lower cover (page 7)
3. Shift tray lower limit sensors [A] (📦 ×1 for each sensor)



## Booklet Paper Full Sensor 1, Booklet Paper Full Sensor 2 (D688 Only)

1. Booklet unit (page 60)

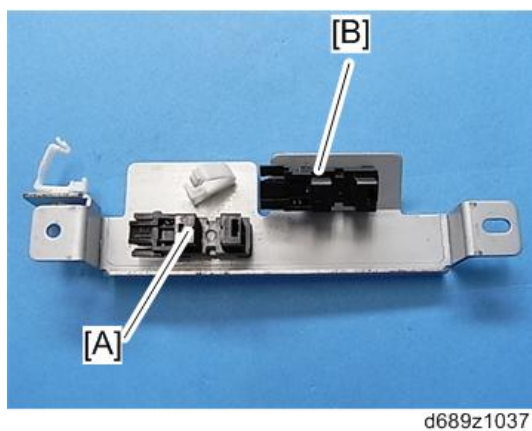
## 2. Bracket [A] (🔩×2, 🛠×1)



## 3. Connectors and clamp (🔌×2, 🛠×1)



## 4. Booklet paper full sensor 1 [A], Booklet paper full sensor 2 [B]



## Booklet Unit (D688 Only)

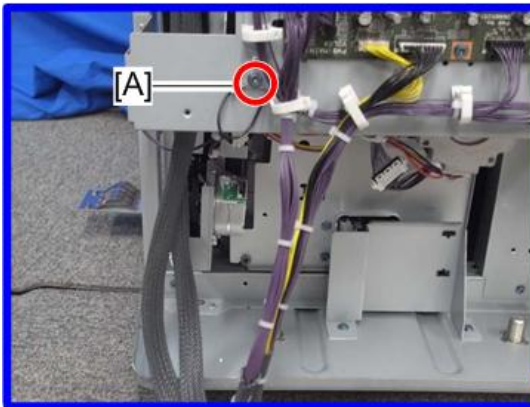
1

### Booklet Unit

**1. Remove the following covers (page 7)**

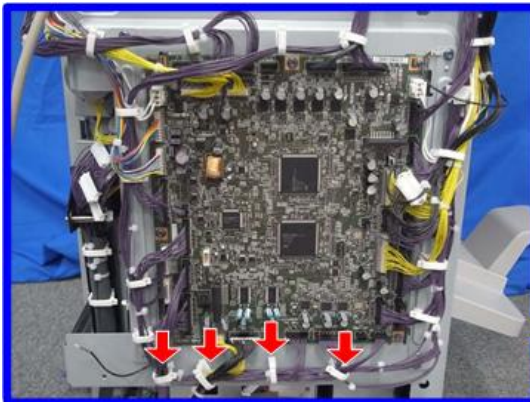
- Rear Upper Cover
- Rear Lower Cover

**2. Remove the ground wire [A] in the left lower side of the main unit (🔧×1)**



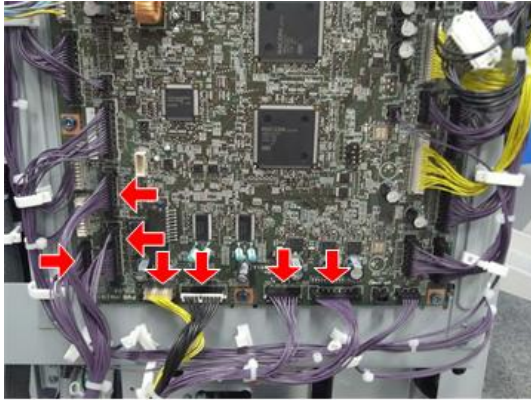
d1351316

**3. Release the harness from the 4 clamps shown below (🔧×4)**



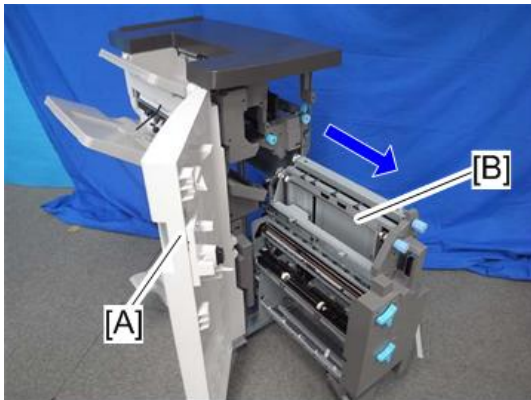
d1351317

4. Disconnect the 7 connectors of the booklet unit from the main board as shown below (📁  
x7)



d1351318

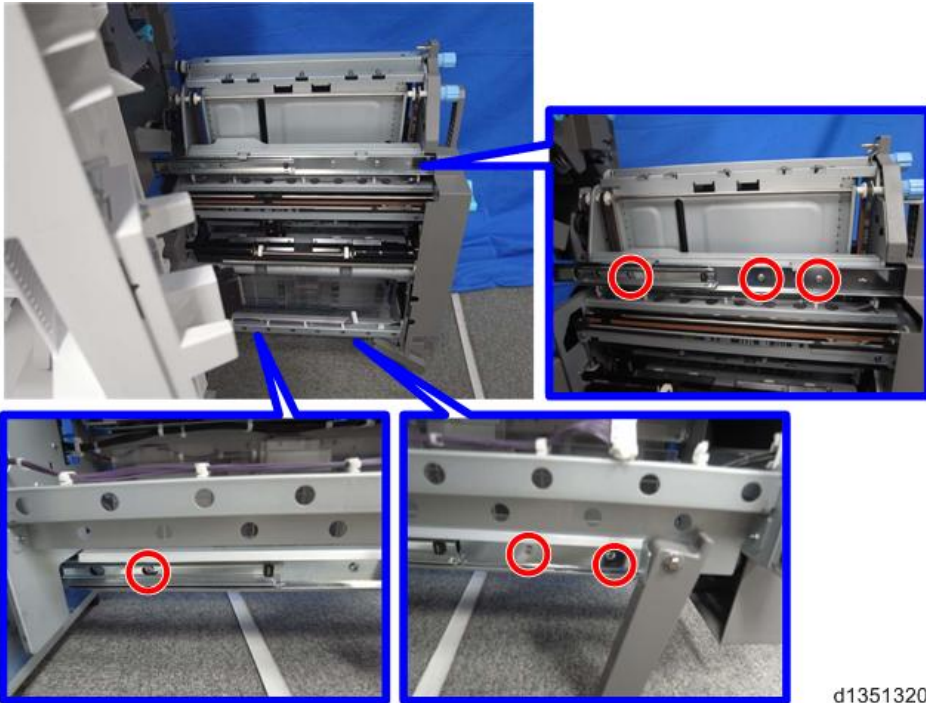
5. Open the front door [A] and pull out the booklet unit [B].



d1351319

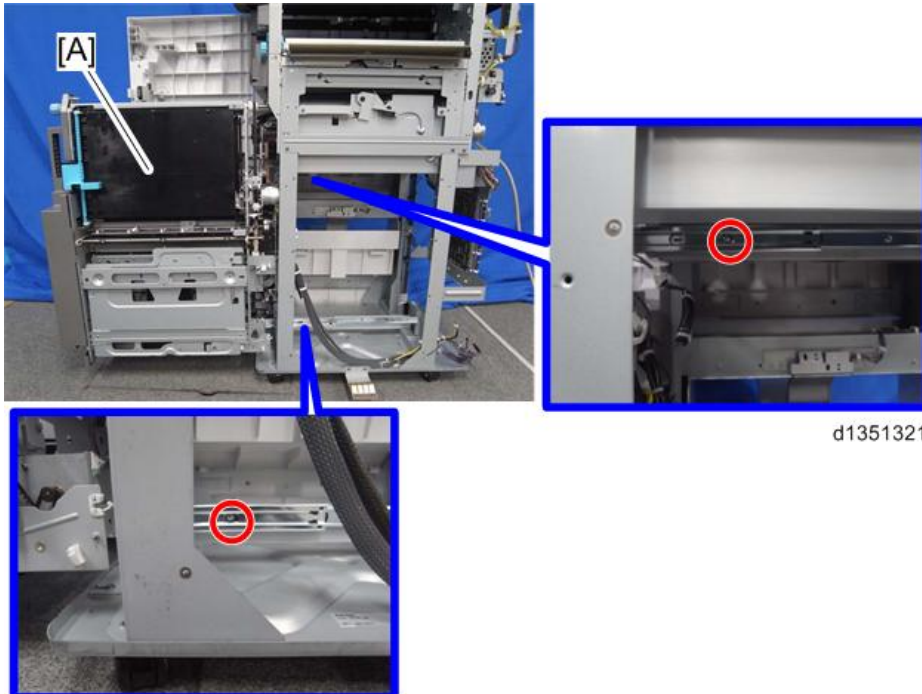


6. Remove the screws that hold the finisher and booklet unit. (⌀×6)



d1351320

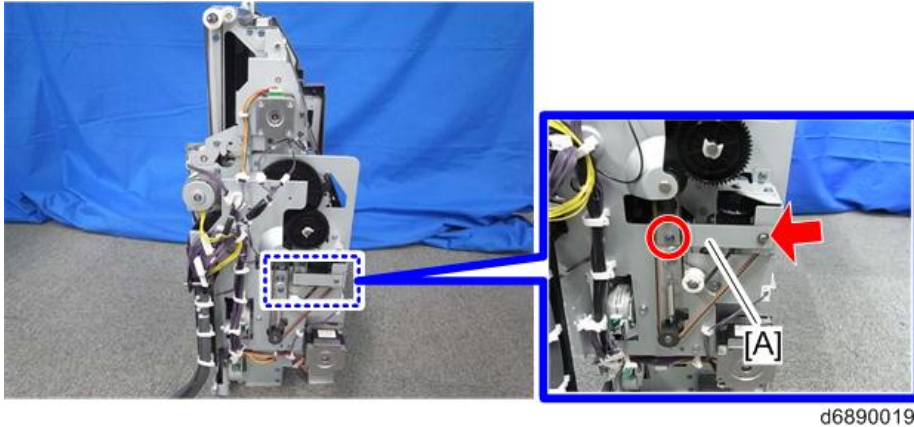
7. Lift up the booklet unit [A] and remove it (⌀×2).



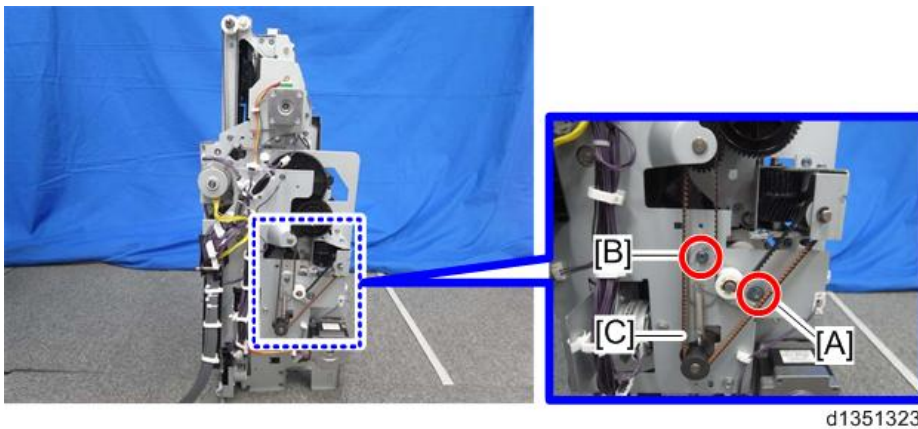
d1351321

## Press Folding Motor

1. Booklet unit (page 60)
2. Remove the bracket [A] from the booklet unit (⌀×1, ⌀×1)

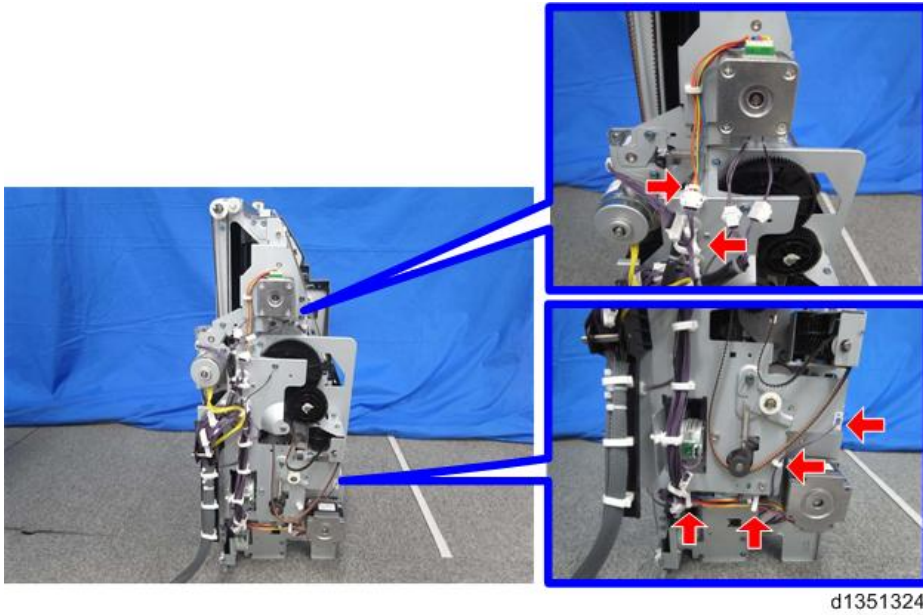


3. Remove the screw [A] of the belt holding bracket (⌀×1)
4. Loosen the screw [B] of the belt holding bracket, and then loosen the press folding motor belt [C].

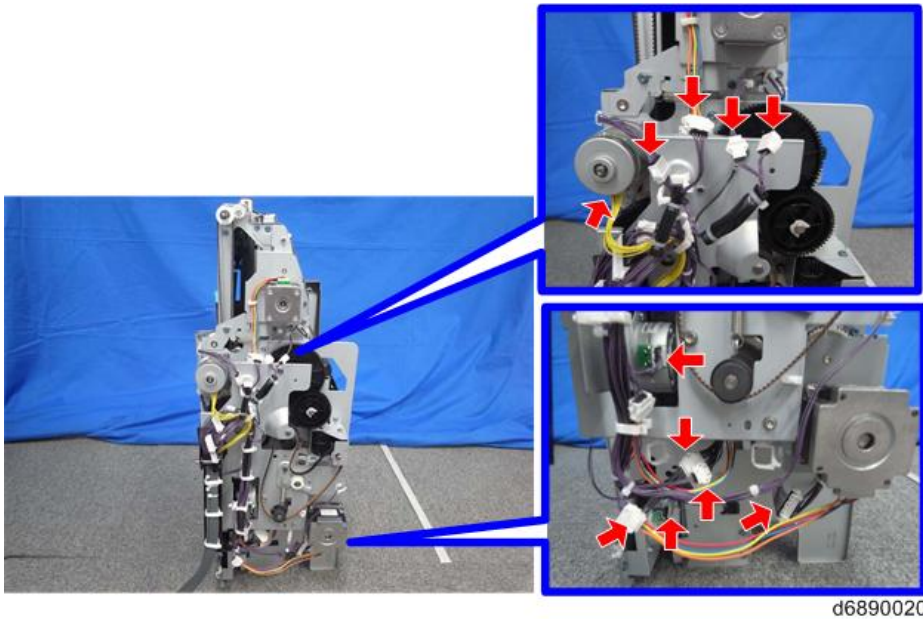




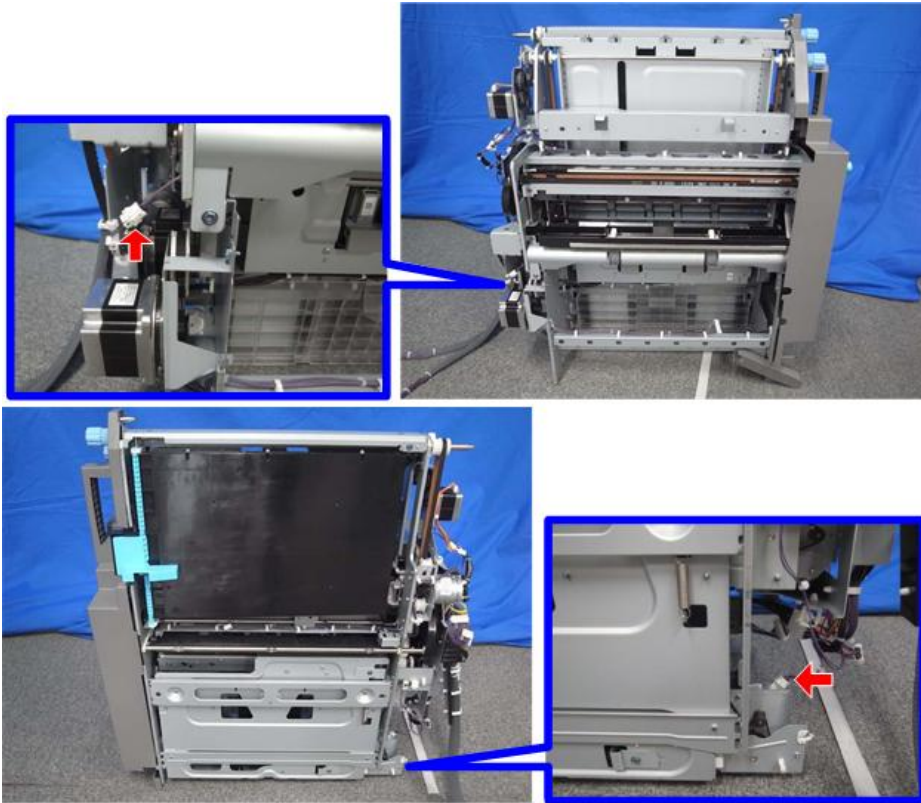
5. Release the harness from the clamps shown below (🔧×6)



6. Disconnect the connectors shown below (🔌×11)

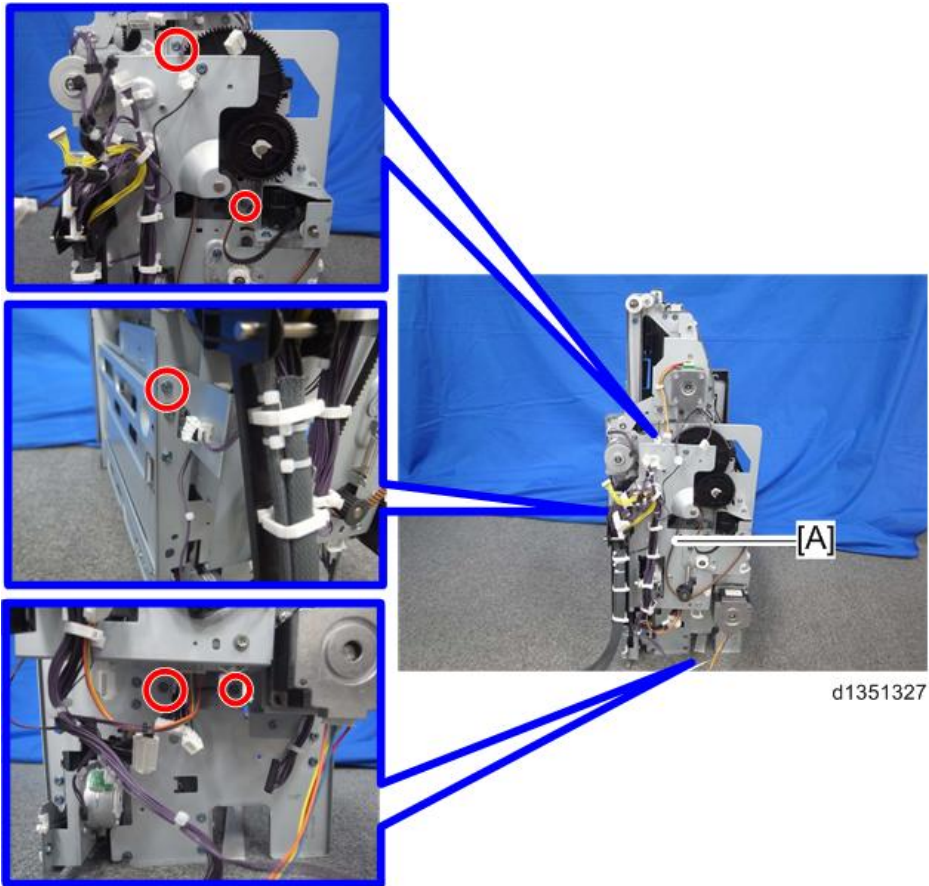


7. Disconnect the connectors shown below (🔌x2)

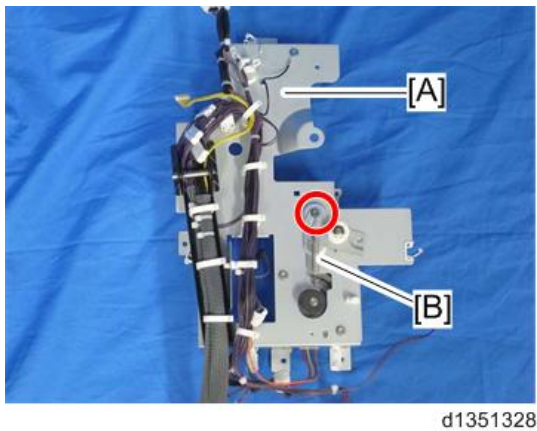


d1351326

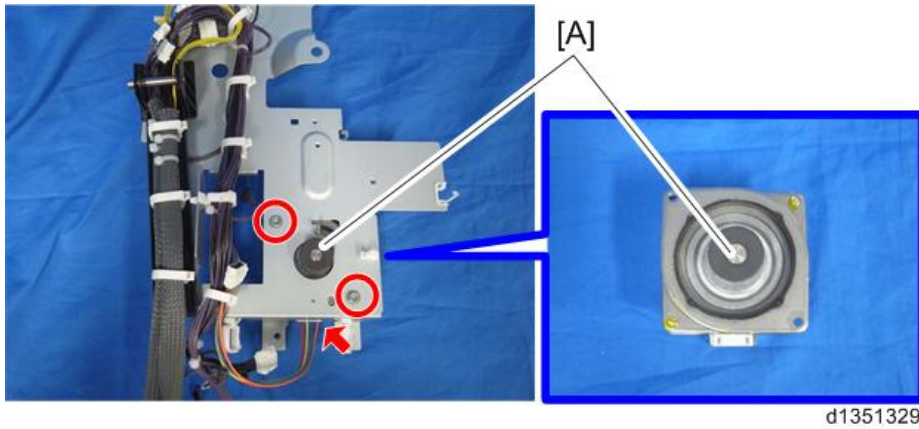
8. Press folding motor bracket [A] (⚙️×5)



9. Remove the spring [B] from the press folding motor bracket [A] (⚙️×1, 🌀×1)



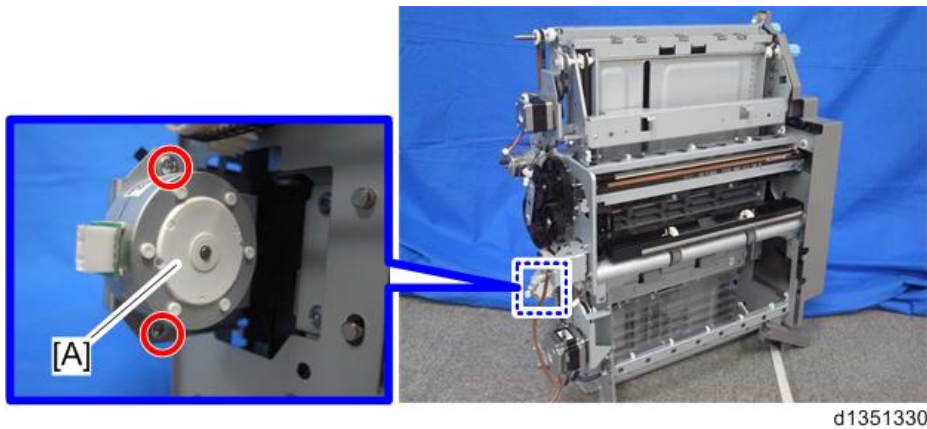
10. Remove the press folding motor [A] (⚙️×2, 📦×1)



1

## Booklet Jogger Motor

1. Booklet unit (page 60)
2. Press folding motor bracket (page 63).
3. Booklet Jogger Motor [A] (⚙️×2)

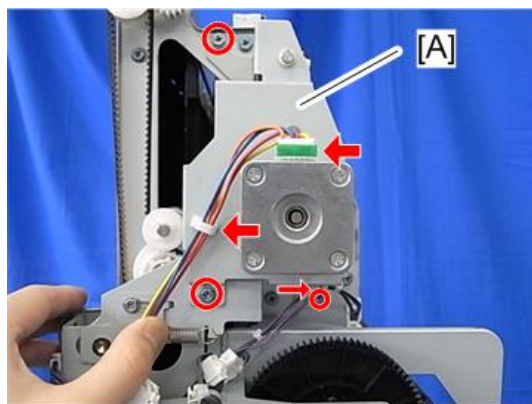


## Booklet Guide Motor

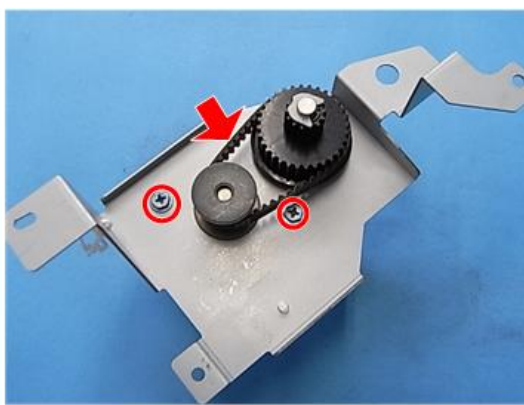
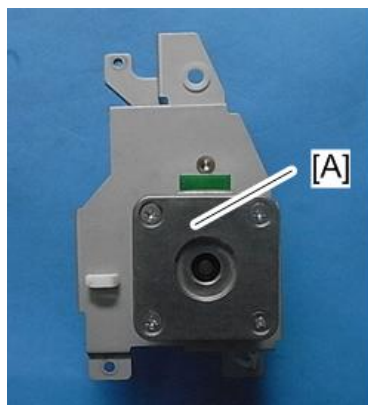
1. Booklet unit (page 60)



2. Bracket [A] (⚙️×3, 📦×1, 🛠️×2)



3. Booklet Guide Motor [A] (⚙️×2, 🛠️×1)

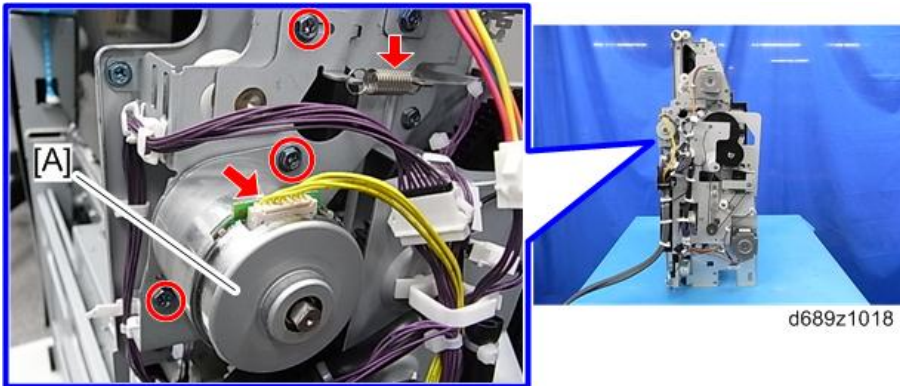


## Movement Roller Transport Motor

1. Booklet unit (page 60)

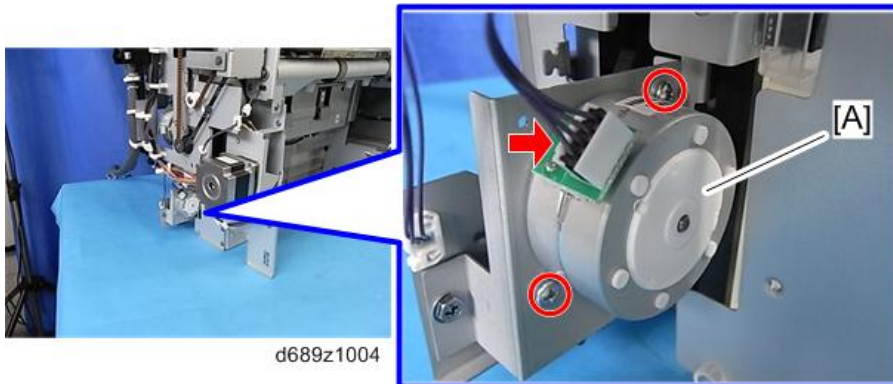


## 2. Movement Roller Transport Motor [A] (⌀×3, ⌀×1, ⌀×1, ⌀×1)



## Booklet Fence Motor

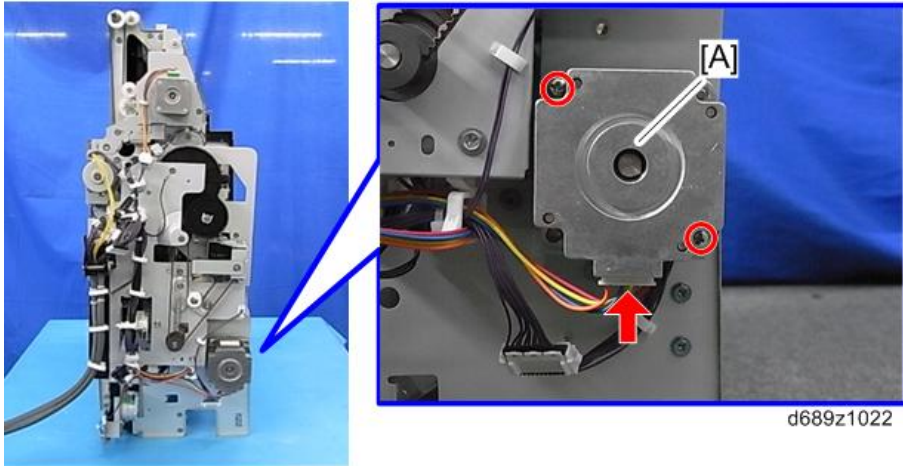
1. Booklet unit (page 60)
2. Booklet Fence Motor [A] (⌀×2, ⌀×1, ⌀×1)



## Folding Transport Motor

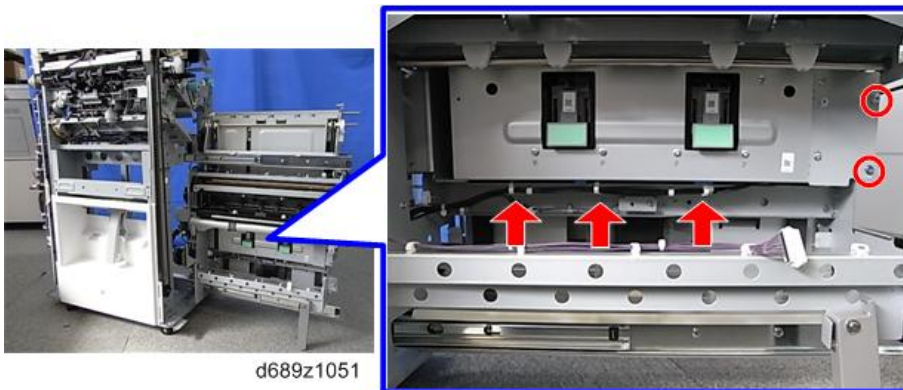
1. Booklet unit (page 60)

## 2. Folding Transport Motor [A] (⚙️×2, 📦×1, 🌀×1)

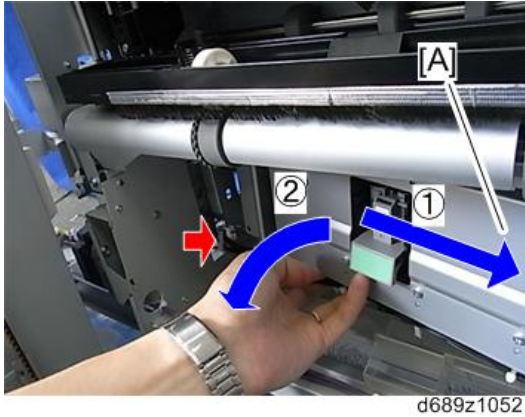


## Booklet Stapler Motor Unit

1. Booklet unit (page 60)
2. Release the clamps and remove the screws securing the booklet stapler motor unit and booklet unit. (⚙️×2, 📦×3)



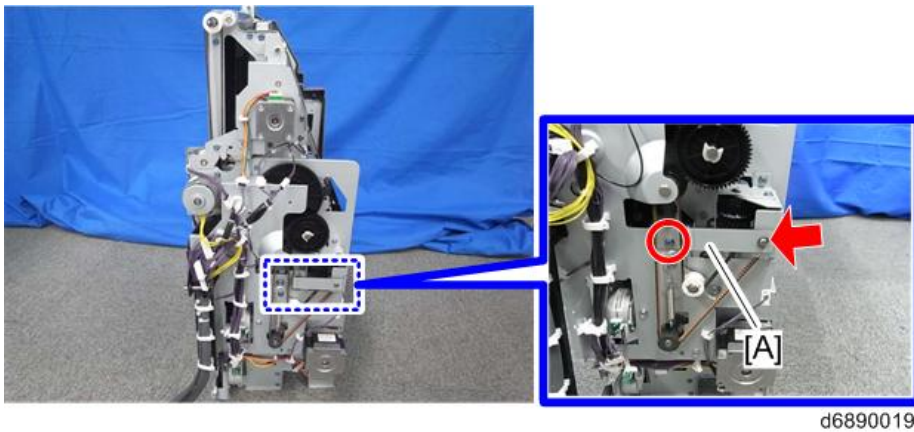
3. Remove Booklet stapler motor unit [A] while sliding it to the front side and then pulling it out from the rear part of the unit. (🔧 ×1)



1

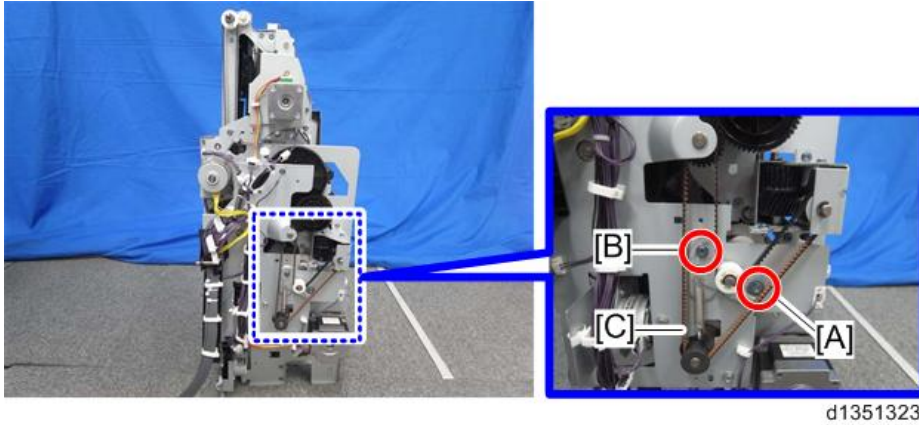
## Tray Upper Limit Switch

1. Booklet unit (page 60)
2. Remove the bracket [A] from the booklet unit (🔧 ×1, 🌀 ×1)

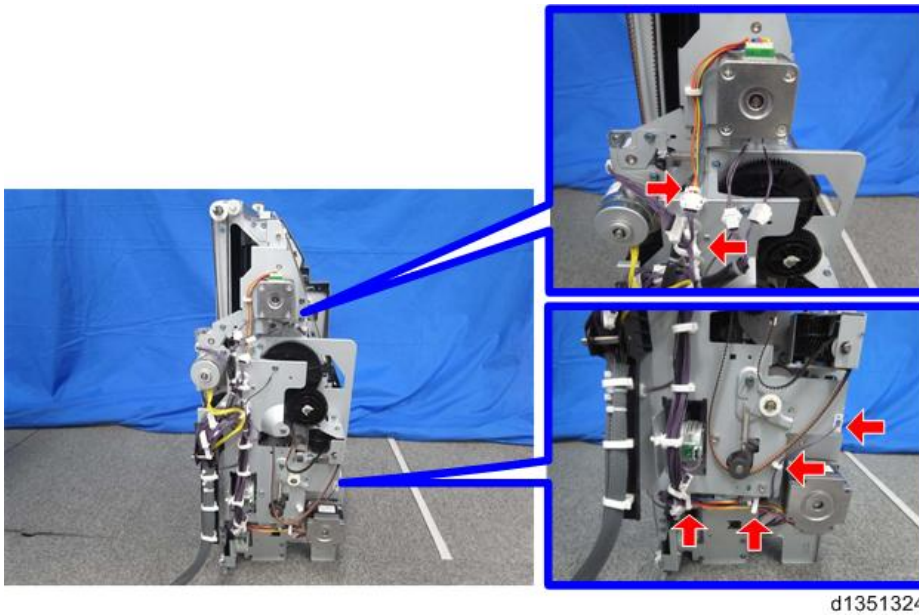


3. Remove the screw [A] of the belt holding bracket (🔧 ×1)

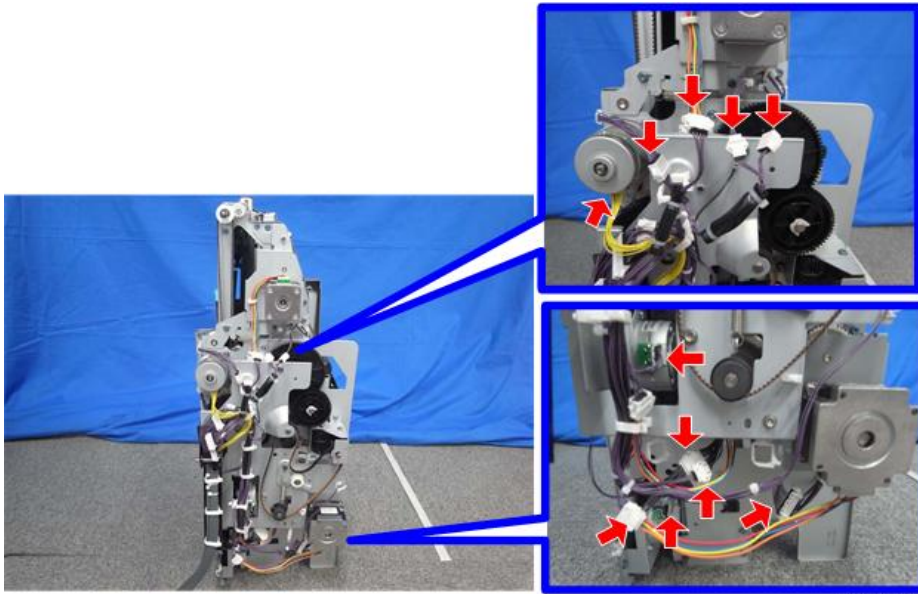
4. Loosen the screw [B] of the belt holding bracket, and then loosen the press folding motor belt [C].



5. Release the harness from the clamps shown below (✎×6)



6. Disconnect the connectors shown below (🔌 x11)



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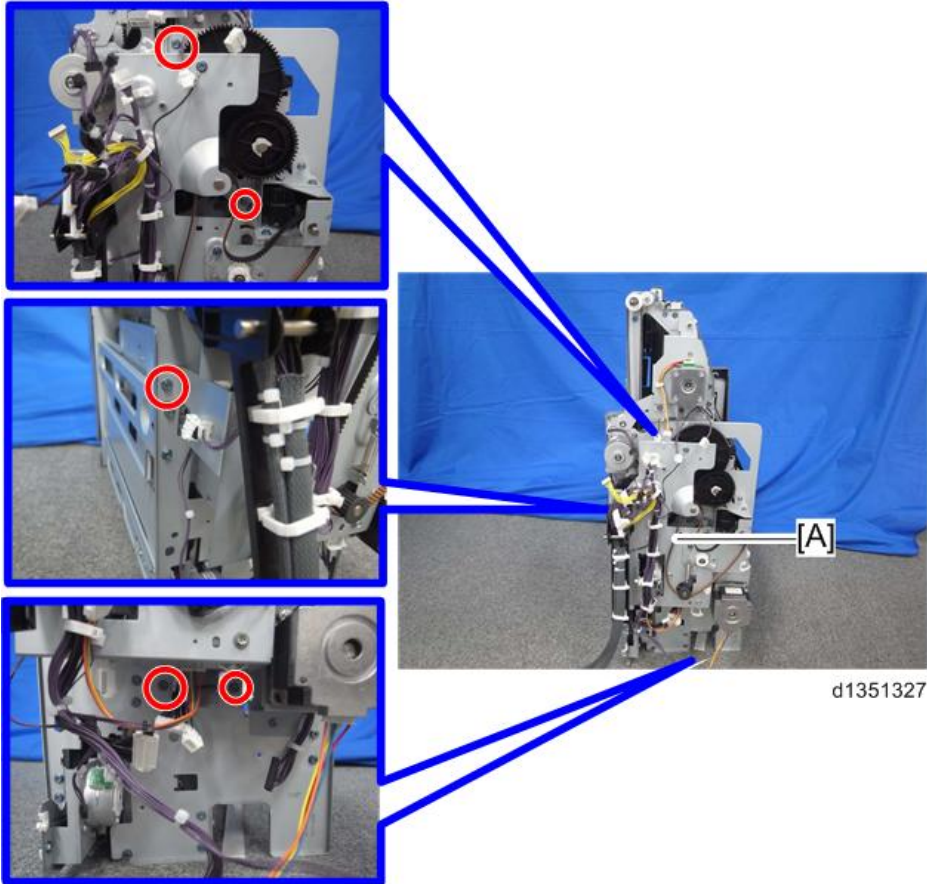


7. Disconnect the connectors shown below (🔌x2)

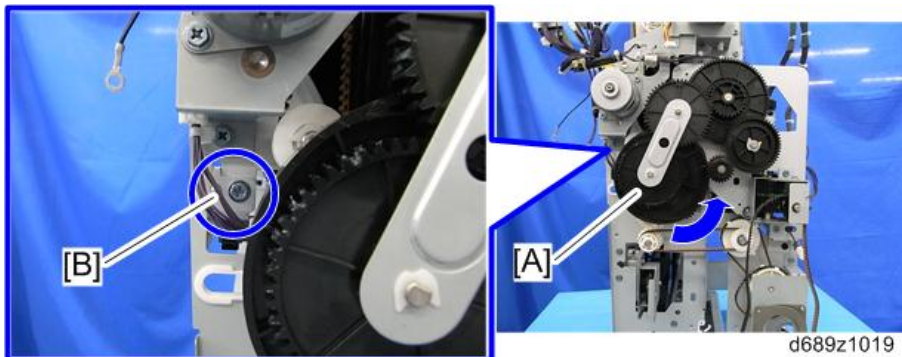


d1351326

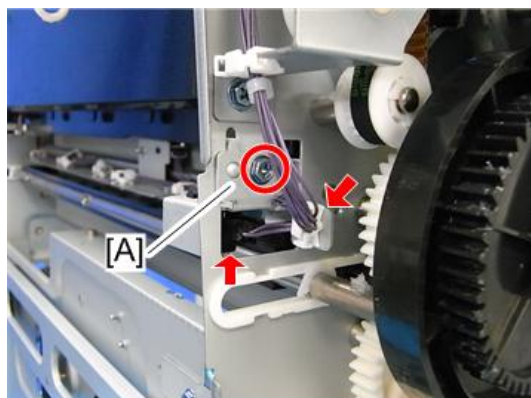
8. Press folding motor bracket [A] (⚙️×5)



9. Rotate the cam [A] to remove the screw of the tray upper limit switch bracket [B].

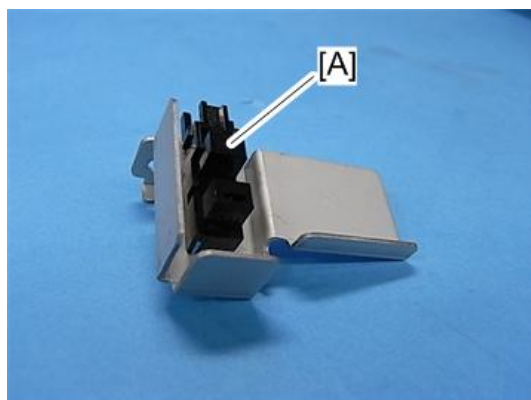


## 10. Bracket [A] (🔩×1, 🌀×2)



d689z1020

## 11. Tray upper limit switch [A]



d689z1021

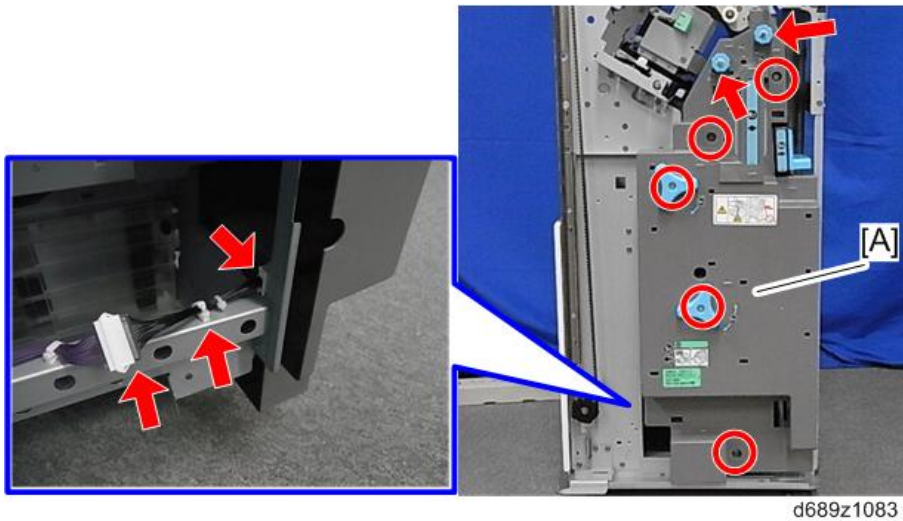
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## Folding Blade Cam HP Sensor

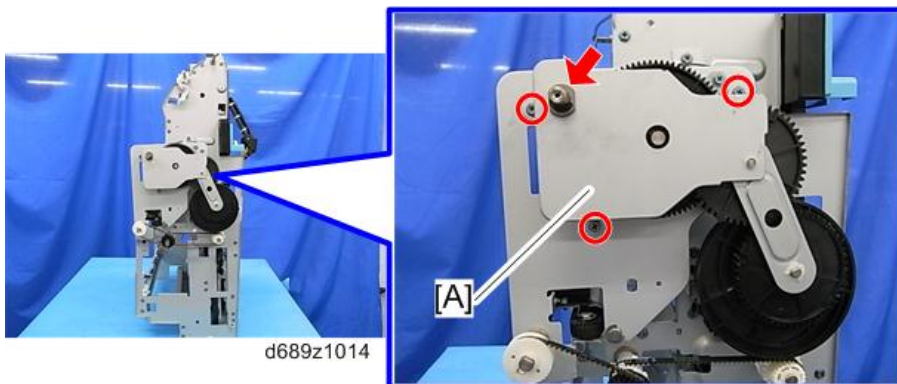
---

### 1. Booklet unit (page 60)

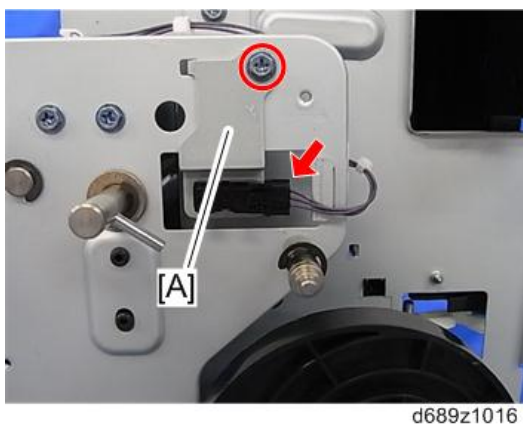
2. Booklet unit front cover [A] (⚙️×5, 📦×2, 📦×1, 🌀×2)



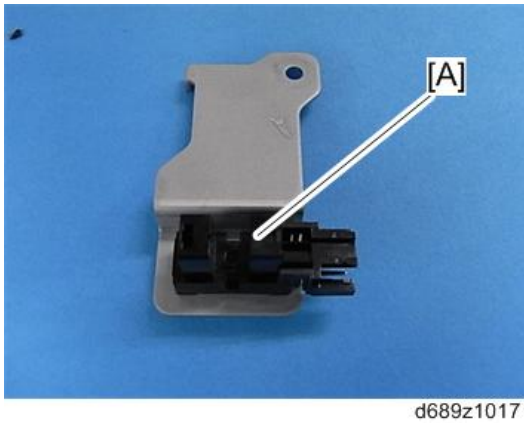
3. Bracket [A] (⚙️×3, 🌀×1)



4. Cam bracket [A] (⚙️×1, 📦×1)

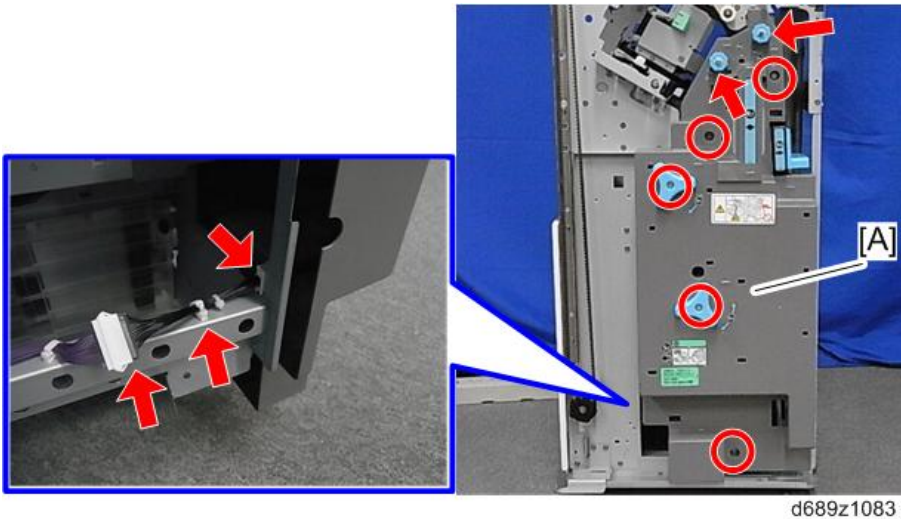


## 5. Folding blade cam HP sensor [A]



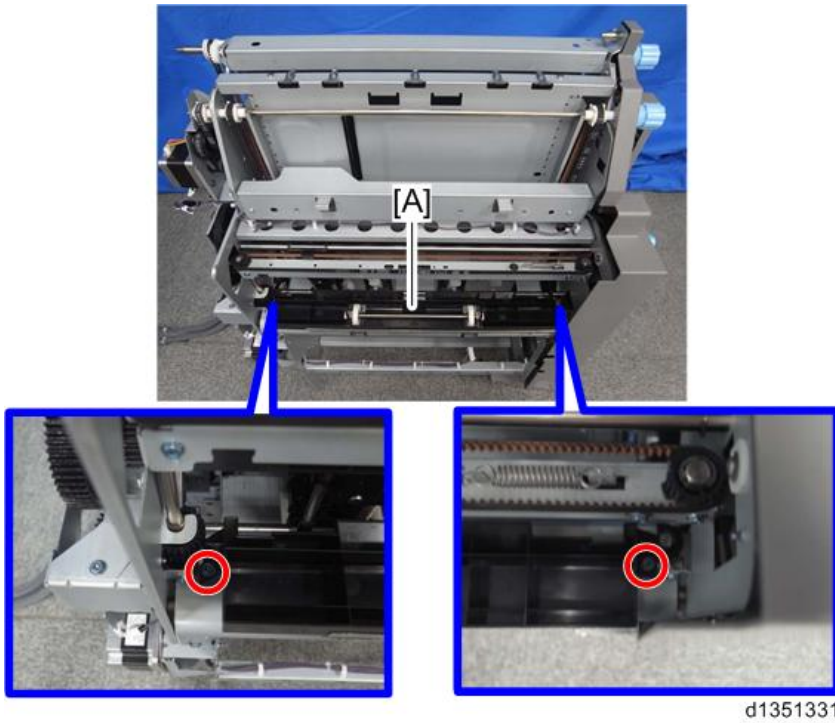
## Bottom Paper Exit Sensor

1. Booklet unit (page 60)
2. Booklet unit front cover [A] (⚙️×5, ⚙️×2, 📦×1, ⚙️×2)

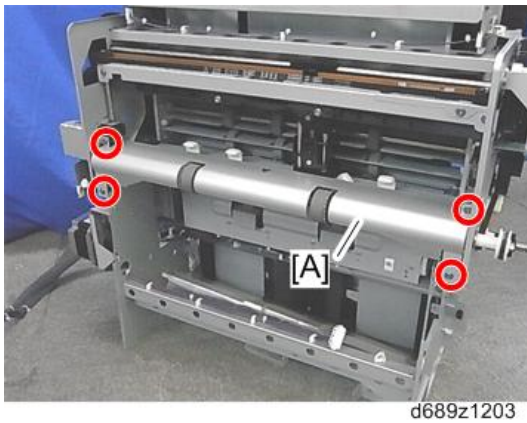




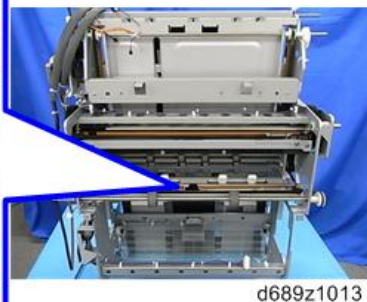
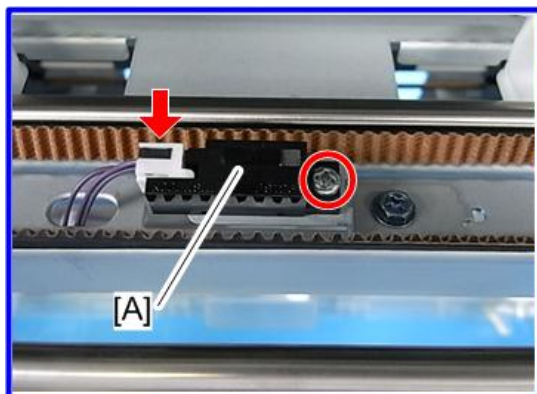
### 3. Fold plate bracket [A] (🔩×2)



### 4. Booklet paper exit guide plate [A] (🔩×4)

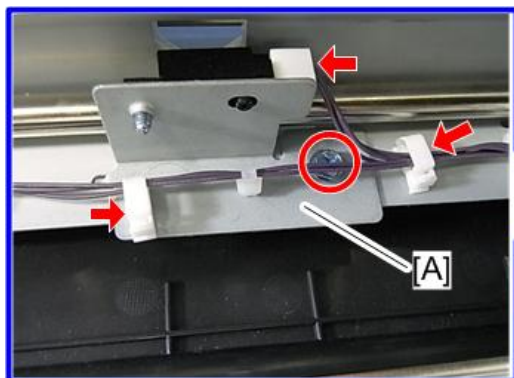


5. Bottom paper exit sensor [A] (⚙️ ×1, 📦 ×1)

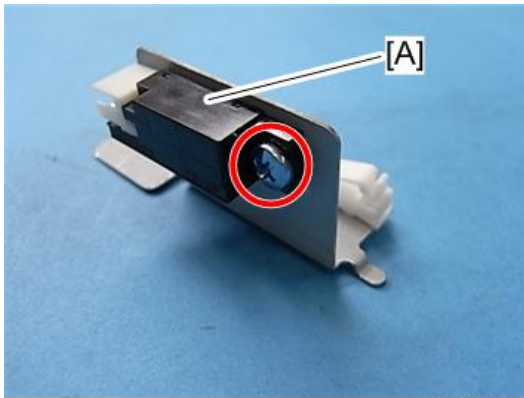


## Booklet Paper Sensor (Upper)

1. Booklet unit (page 60)
2. Bracket [A] (⚙️ ×1, 📦 ×1, 📦 ×2)



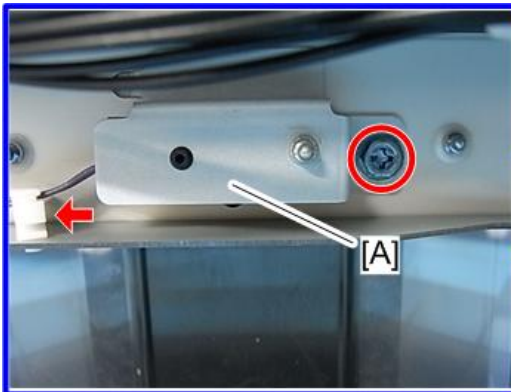
### 3. Booklet Paper Sensor (Upper) [A] (⌚×1)



d689z1012

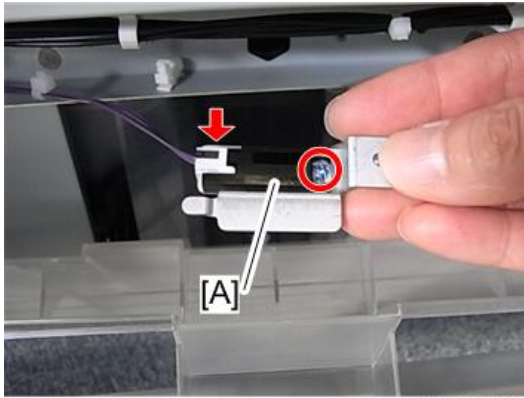
## Booklet Paper Sensor (Lower)

1. Booklet unit (page 60)
2. Bracket [A] (⌚×1, ⌚×1)



d689z1038

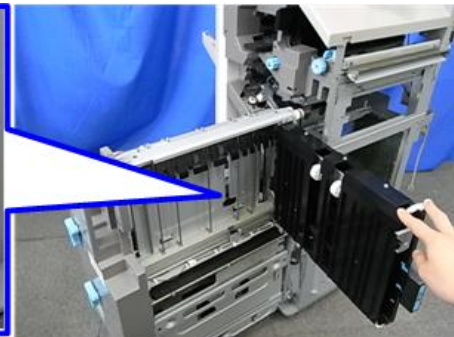
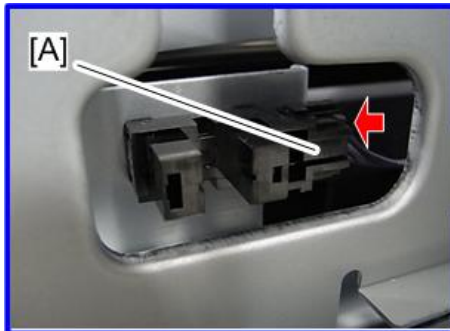
3. Booklet Paper Sensor (Lower) [A] (⚙️×1, 📦×1)



d689z1039

## Booklet Adjustment HP Sensor

1. Pull out the booklet unit.
2. Booklet adjustment HP sensor [A] (📦×1)

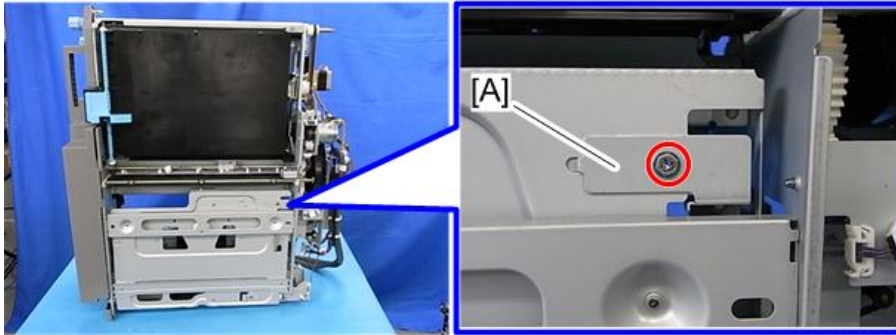


d689z1220

## Booklet Jogger HP Sensor

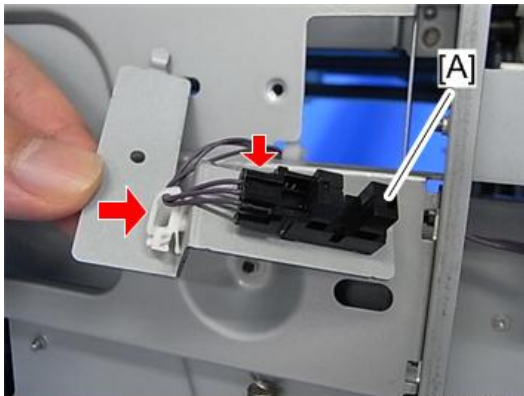
1. Pull out the booklet unit.

## 2. Bracket [A] (🔩×1)



d689z1009

## 3. Booklet jogger HP sensor [A] (📦×1, 🔌×1)

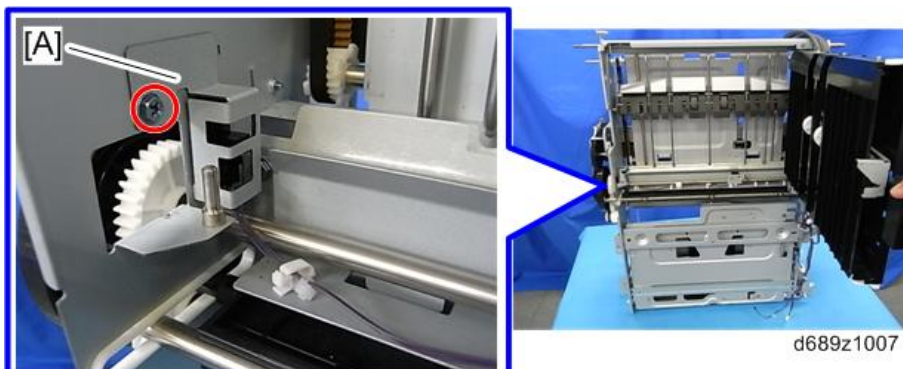


d689z1010

## Booklet Guide Sensor

### 1. Pull out the booklet unit.

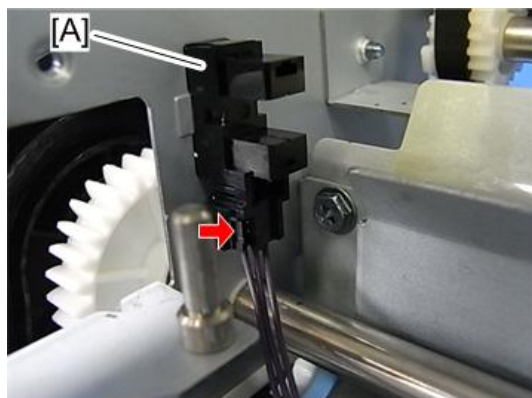
### 2. Bracket [A] (🔩×1)



d689z1007



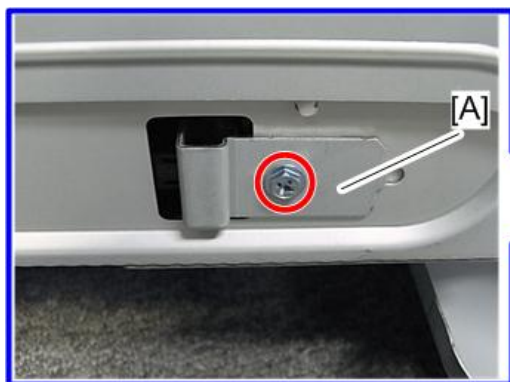
3. Booklet guide sensor [A] (📦 ×1)



d689z1008

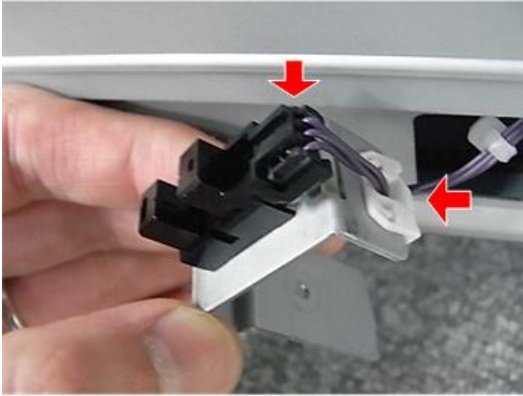
## Booklet Bottom Fence HP Sensor

1. Pull out the booklet unit.
2. Bracket [A] (📦 ×1)



d689z1002

### 3. Booklet bottom fence HP sensor [A] (📦×1, 🛠️×1)



d689z1200

# Punch Unit

The punch unit is already adjusted in the factory, so you don't need to adjust it. When you need to replace the parts of the punch unit, replace the whole unit.

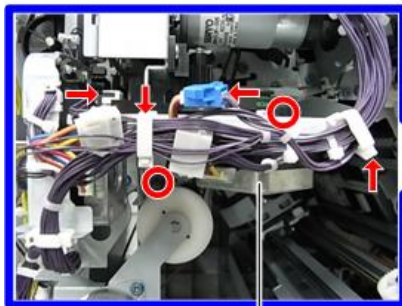
## ↓ Note

- Do not disassemble the punch unit. This unit is precisely adjusted in the factory.
- Do not drop or give a shock to the unit when you replace it. The unit could be damaged.

### 1. Remove the following covers.

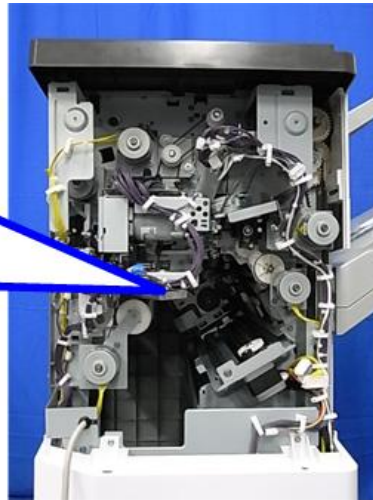
- Rear upper cover and rear lower cover (page 7)

### 2. Stepper motor bracket [A] (⚙️ ×2, 📦 ×2, 🛠️ ×2)

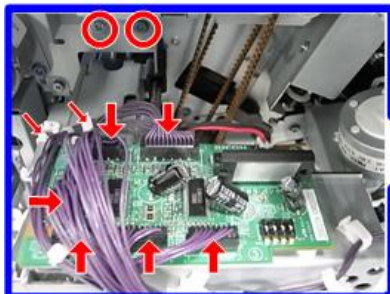


d146z0063

[A]

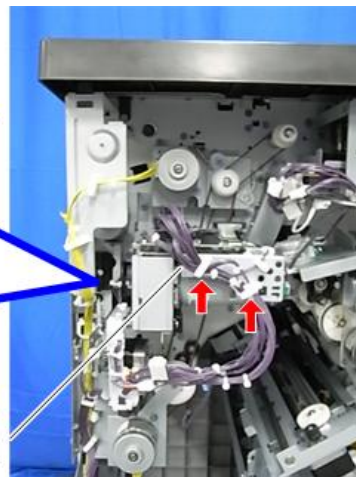


### 3. Pull out the punch unit [A] (⚙️ ×2, 📦 ×5, 🛠️ ×4)



d146z0064

[A]





d1351315

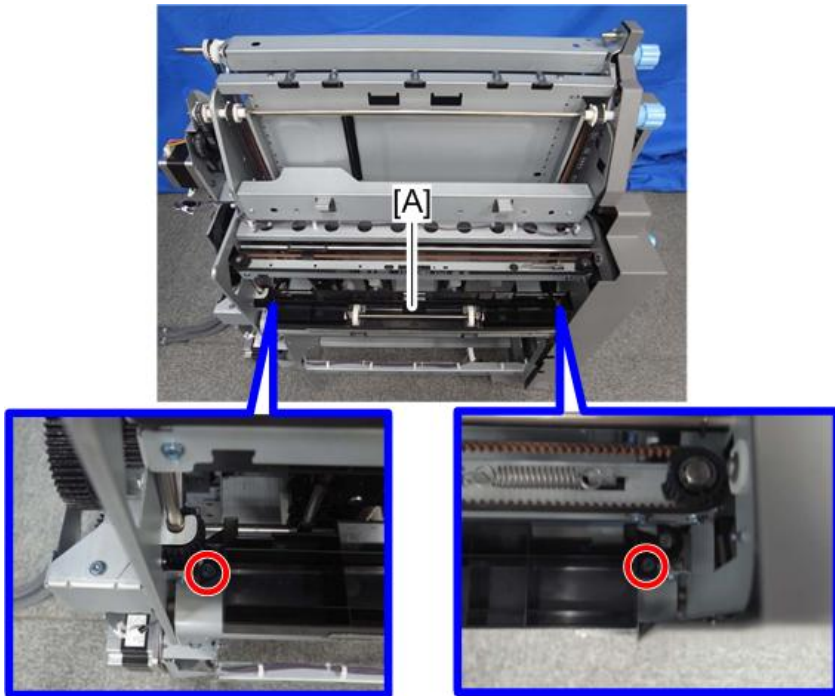
# Adjustment of the Flat Fold Booklet Unit

1

## Adjusting the Alignment of the Flat Fold Rollers

To adjust the folding strength, adjust the difference in vertical alignment between the flat fold rollers.

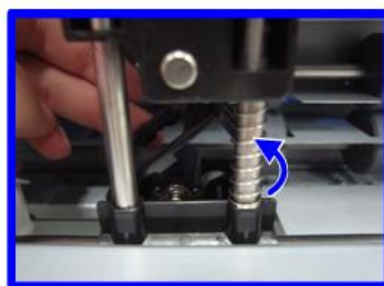
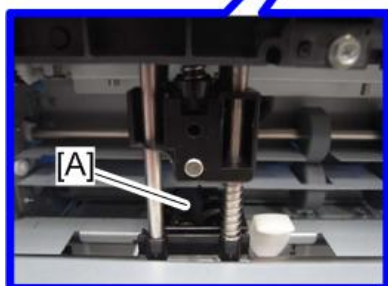
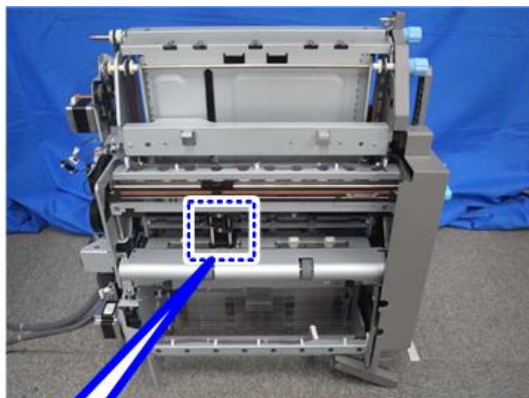
1. Booklet unit (page 60)
2. Fold plate bracket [A] (⌀ $\times$ 2)



d1351331

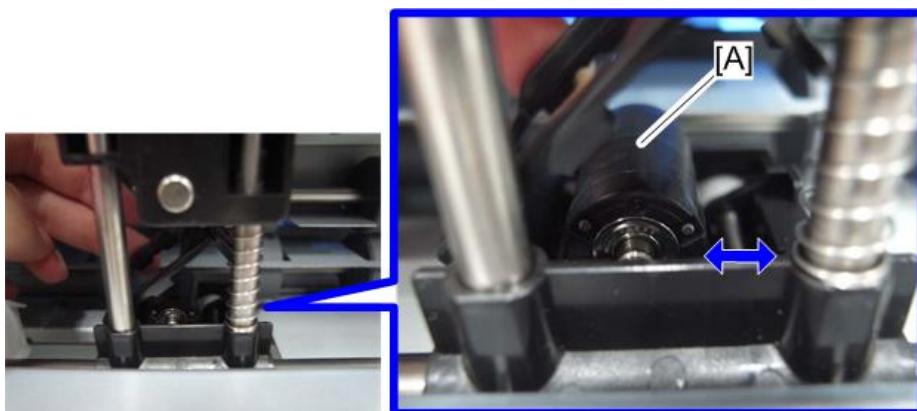


### 3. Open the bracket [A] of the flat fold roller.



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### 4. Adjust the position of the flat fold lower roller [A] to adjust the difference in alignment between the upper and lower rollers of the flat fold booklet unit.



d1351333

#### ↓ Note

- To lower the booklet fold height (increase folding strength), roller offset is increased. To raise the booklet fold height (decrease folding strength), roller offset is decreased. When the machine is shipped from the factory, the booklet fold height is set low by offsetting the rollers.

However, since the folding strength is high, toner cracking may occur at fold lines. In such a case, toner cracking at fold lines may be reduced by adjusting the offset amount to 0 mm.

#### Difference in Alignment and Folding Strength

Difference in Alignment	Folding Strength	Thickness of the booklet	The amount of toner sticking to the folding line
3mm (default)	Strong	Thin	OK
0mm	Weak	Thick	Good

5. Close the bracket after the adjustment.

6. Reassemble the machine.

## Adjusting the Folding Speed

You can adjust the thickness of the booklet by adjusting the moving speed of the flat fold booklet unit.

If you want to make the booklet thinner, set a slower speed. If you want to make the booklet thicker, set a faster speed.

1. Enter the SP mode.

2. Set the moving speed of the flat fold booklet unit for each paper size with SP6-114-001 to 010 (Fold Speed Adj.: 2K/3K FIN).

SP	Setting Items	Selection	Default Value
SP6-114-001	Fold Speed Adj.: 2K/3K FIN: A3 SEF	0: Standard* 1: Middle 2: Low	0: Standard
SP6-114-002	Fold Speed Adj.: 2K/3K FIN: B4 SEF		
SP6-114-003	Fold Speed Adj.: 2K/3K FIN: A4 SEF		
SP6-114-004	Fold Speed Adj.: 2K/3K FIN: B5 SEF		
SP6-114-005	Fold Speed Adj.: 2K/3K FIN: DLT SEF		
SP6-114-006	Fold Speed Adj.: 2K/3K FIN: LG SEF		
SP6-114-007	Fold Speed Adj.: 2K/3K FIN: LT SEF		
SP6-114-008	Fold Speed Adj.: 2K/3K FIN: 12"×18"		
SP6-114-009	Fold Speed Adj.: 2K/3K FIN: 8K SEF		
SP6-114-010	Fold Speed Adj.: 2K/3K FIN: Other		

\* [0: Standard] is faster than [1: Middle].

**3. Exit the SP mode.**

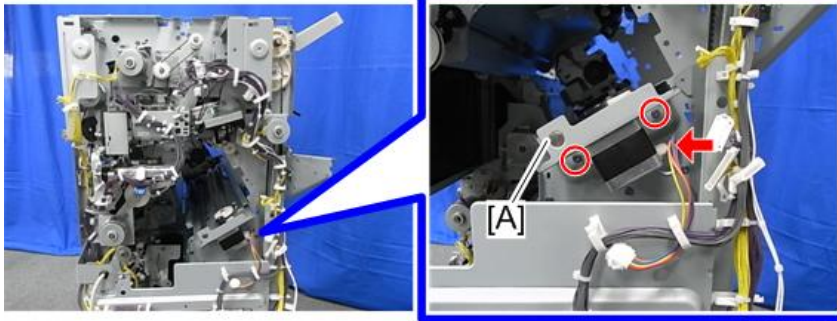
# Stapler Unit

1

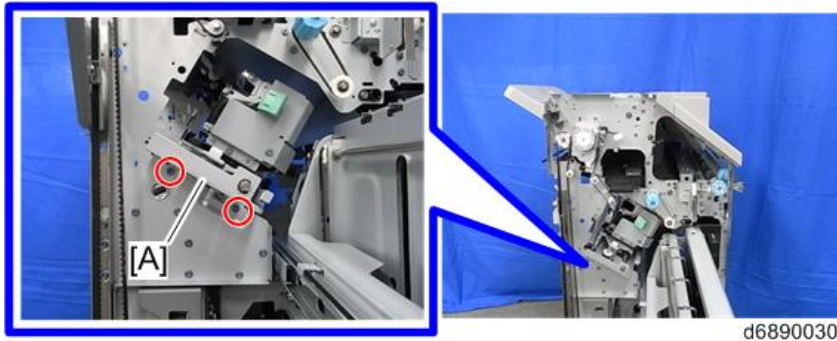
## 1. Remove the following covers.

- Front inner cover (page 9)
- Rear upper cover (page 7)

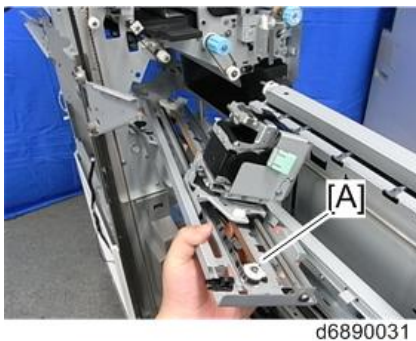
## 2. Stapler Unit rear side [A] (⌀×2, □×1)



## 3. Stapler Unit front side [A] (⌀×2)

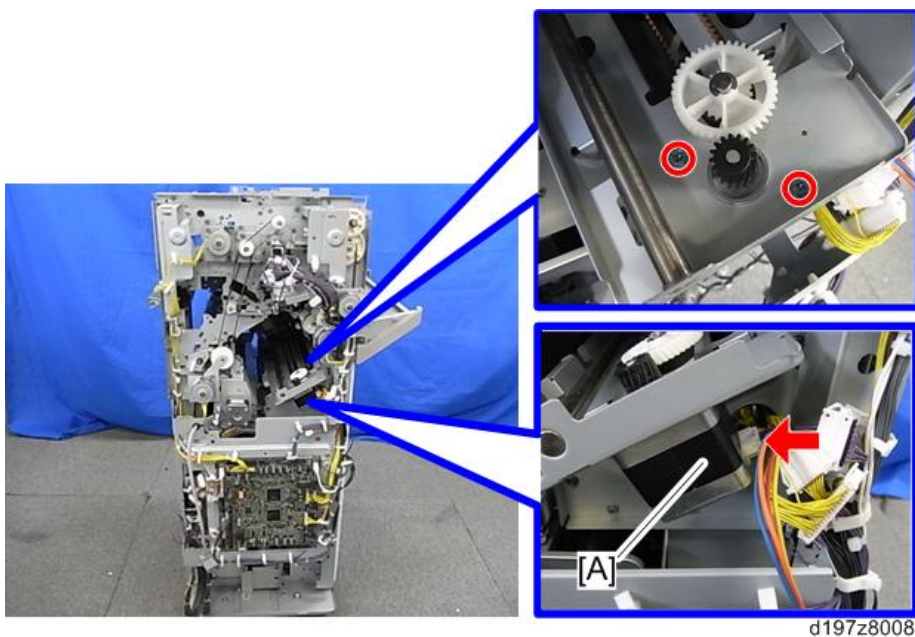


## 4. Stapler Unit [A]



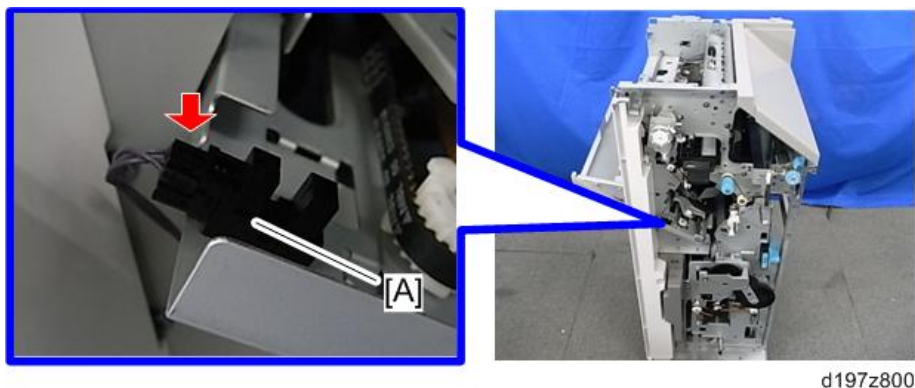
## Stapler Movement Motor

1. Remove the following cover.
  - Rear upper cover (page 7)
2. Stapler Movement Motor [A] (⚙️ ×2, 📦 ×1)



## Stapler Movement HP Sensor

1. Remove the following covers.
  - Front inner cover (page 9)
2. Stapler Movement HP Sensor [A] (📦 ×1)





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