Finisher SR3230 /
Booklet Finisher SR3240
Machine Code: D3BA/D3BB
Field Service Manual

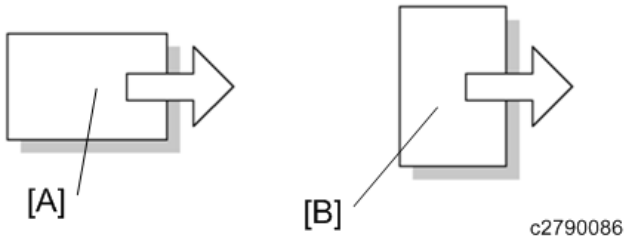
May, 2016

Symbols, Abbreviations and Trademarks

Symbols, Abbreviations

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

Symbol	What it means
	Clip ring
	Screw
	Connector
	Clamp
	E-ring
	Flat Flexible Cable
	Timing Belt
SEF	Short Edge Feed [A]
LEF	Long Edge Feed [B]
K	Black
C	Cyan
M	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color



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- Microsoft® Internet Explorer® 6
- Windows® Internet Explorer® 7
- Windows® Internet Explorer® 8

The proper names of the Windows operating systems are as follows:

- The product names of Windows Vista are as follows:

  Microsoft® Windows Vista® Ultimate

  Microsoft® Windows Vista® Business

  Microsoft® Windows Vista® Home Premium

  Microsoft® Windows Vista® Home Basic

  Microsoft® Windows Vista® Enterprise
- The product names of Windows 7 are as follows:

  Microsoft® Windows® 7 Home Premium

  Microsoft® Windows® 7 Professional

  Microsoft® Windows® 7 Ultimate

  Microsoft® Windows® 7 Enterprise
- The product names of Windows 8 are as follows:

  Microsoft® Windows® 8

  Microsoft® Windows® 8 Pro

  Microsoft® Windows® 8 Enterprise
- The product names of Windows 8.1 are as follows:

  Microsoft® Windows® 8.1

  Microsoft® Windows® 8.1 Pro

  Microsoft® Windows® 8.1 Enterprise
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Microsoft® Windows® 10 Pro

Microsoft® Windows® 10 Enterprise

Microsoft® Windows® 10 Education

- The product names of Windows Server 2003 are as follows:

  Microsoft® Windows Server® 2003 Standard Edition

  Microsoft® Windows Server® 2003 Enterprise Edition

- The product names of Windows Server 2003 R2 are as follows:

  Microsoft® Windows Server® 2003 R2 Standard Edition

  Microsoft® Windows Server® 2003 R2 Enterprise Edition

- The product names of Windows Server 2008 are as follows:

  Microsoft® Windows Server® 2008 Standard

  Microsoft® Windows Server® 2008 Enterprise

- The product names of Windows Server 2008 R2 are as follows:

  Microsoft® Windows Server® 2008 R2 Standard

  Microsoft® Windows Server® 2008 R2 Enterprise

- The product names of Windows Server 2012 are as follows:

  Microsoft® Windows Server® 2012 Foundation

  Microsoft® Windows Server® 2012 Essentials

  Microsoft® Windows Server® 2012 Standard

- The product names of Windows Server 2012 R2 are as follows:

  Microsoft® Windows Server® 2012 R2 Foundation

  Microsoft® Windows Server® 2012 R2 Essentials

  Microsoft® Windows Server® 2012 R2 Standard

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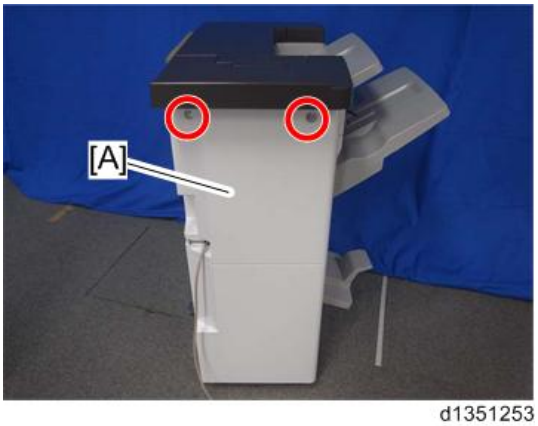
2. Detailed Descriptions

1. Replacement and Adjustment

Covers

Rear Upper Cover, Rear Lower Cover, Upper Cover

1. Rear upper cover [A] (x 2)



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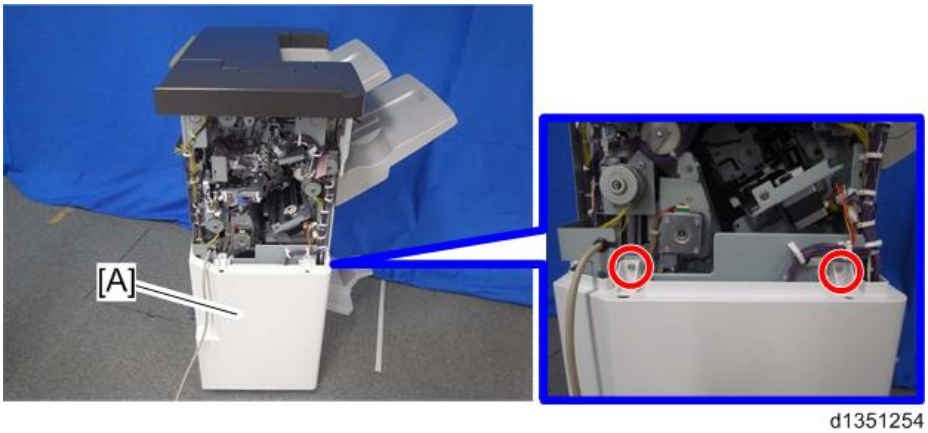
2. Rear lower cover [A] (x 2)



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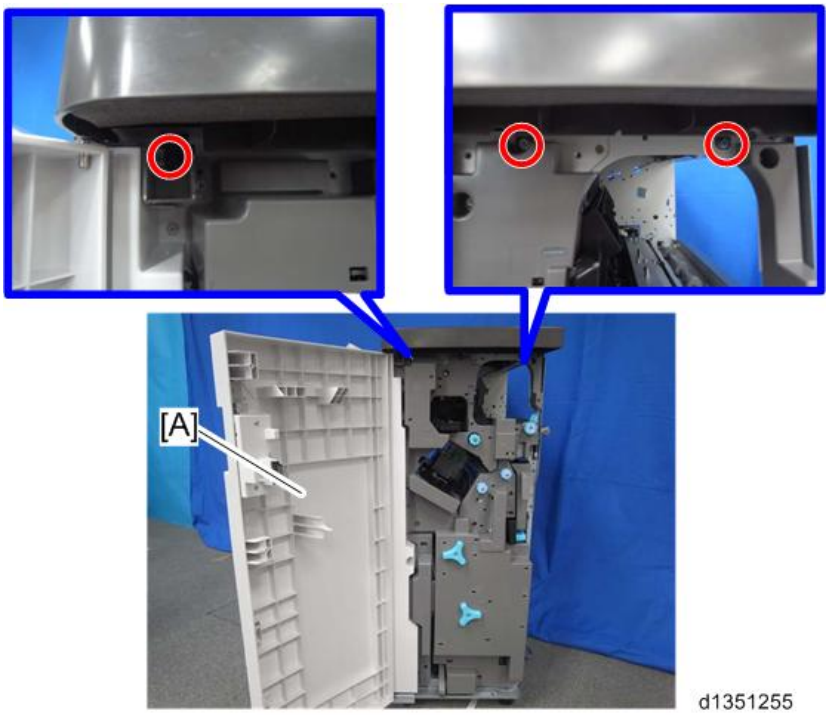
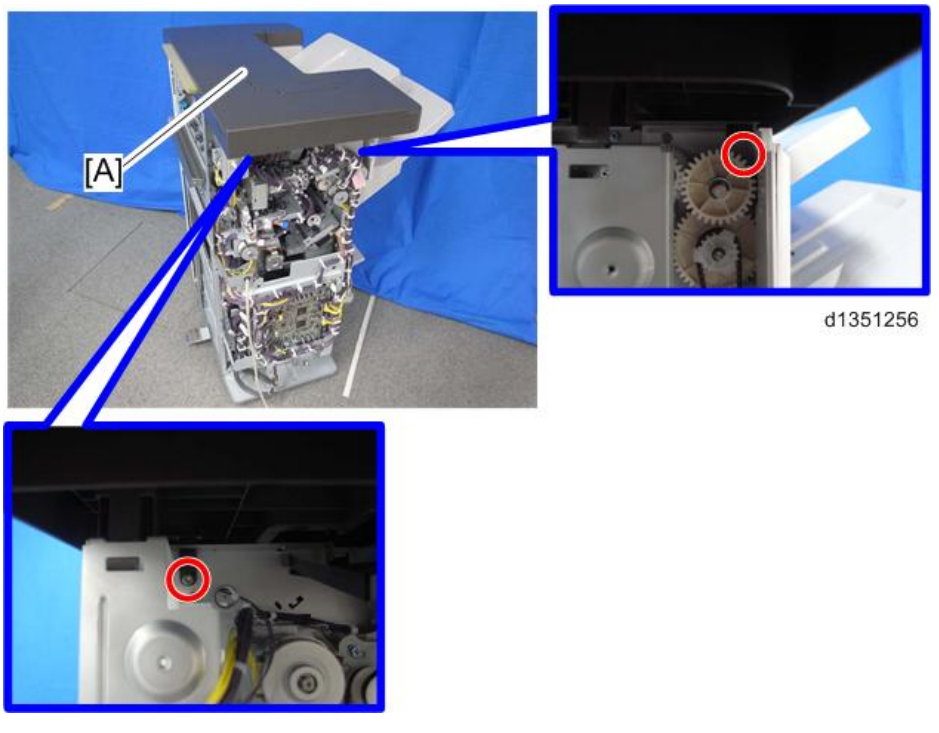
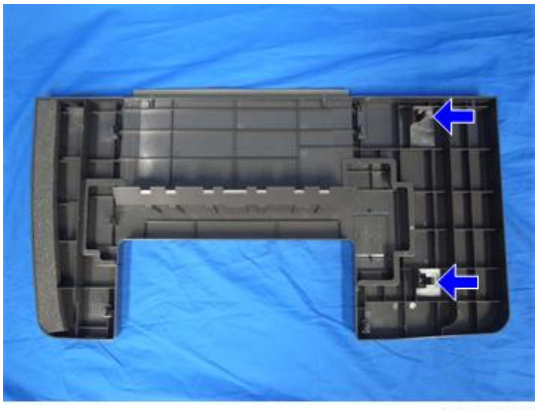
3. Open the front door [A], and remove the screws of the upper cover. (x 3)



4. Upper cover [A] (x 2, hook x 2)



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



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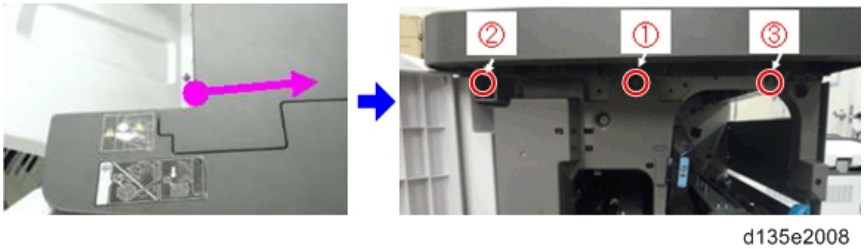
6. When re-attaching the upper cover, tighten the screws on the right side in the order shown below: 1 > 2 > 3.



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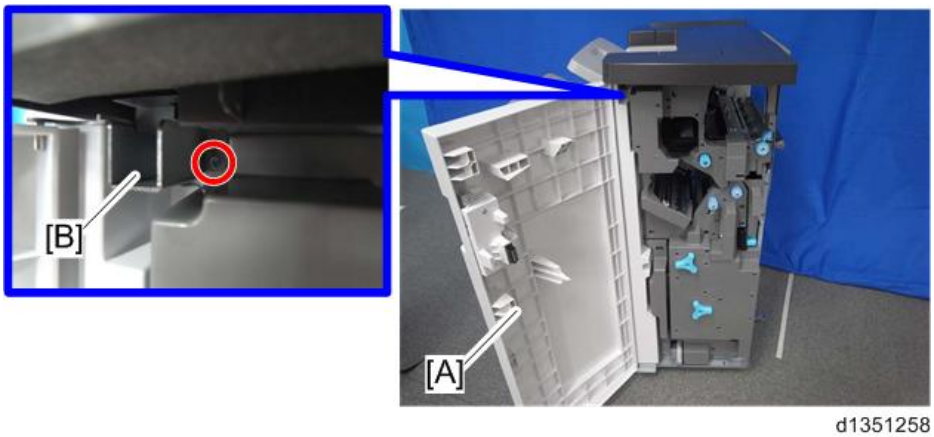
Front Cover, Front Left Side Cover

1. Open the front door [A], and then remove the front door bracket [B]. (x 1)
2. Front door [A]



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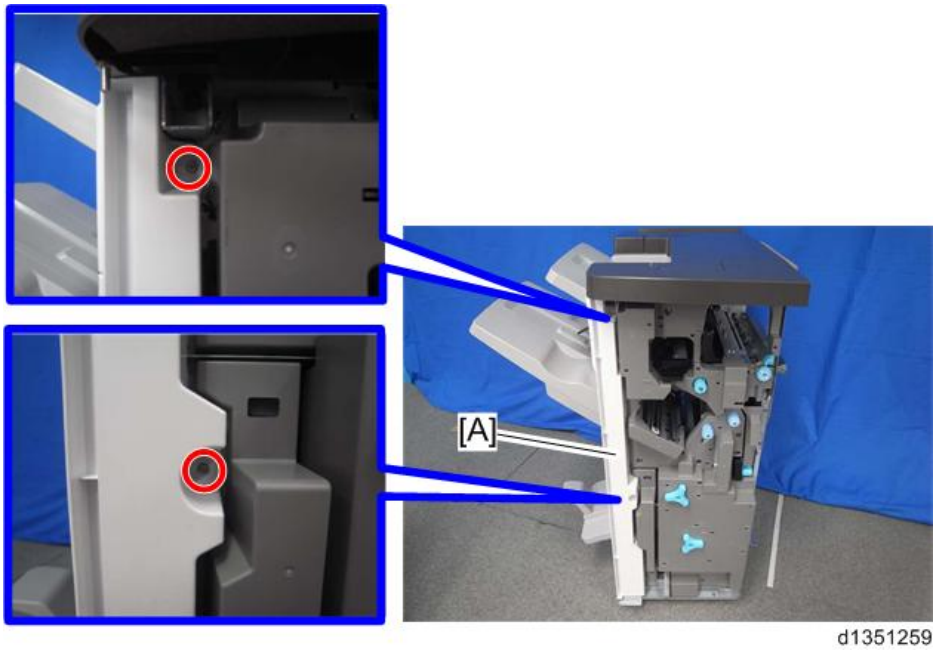
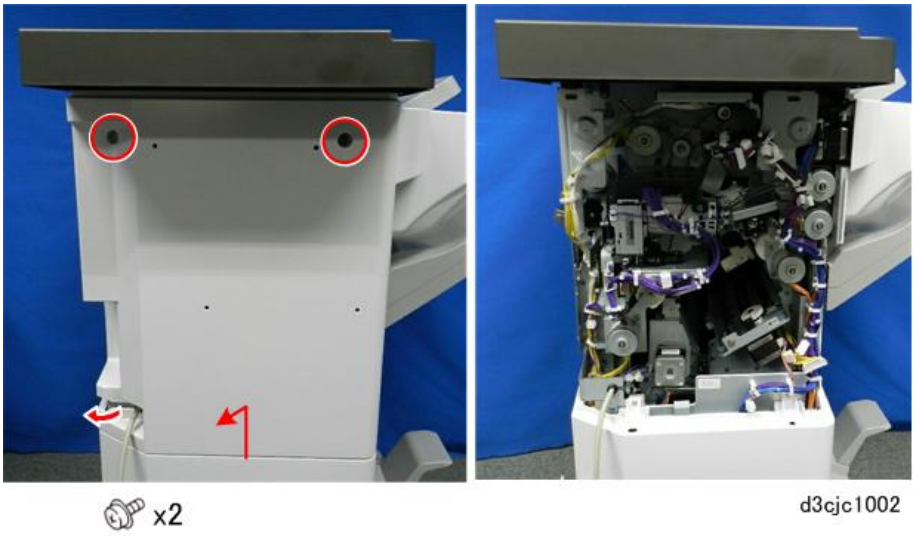
3. Front left side cover [A] (x 2)

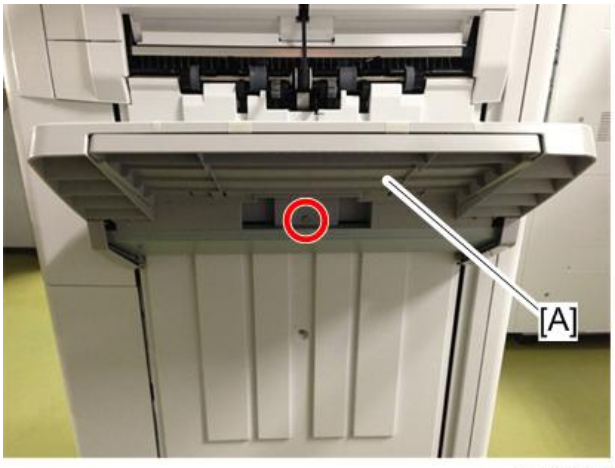


Paper Guide Cover

1. Remove the rear upper cover.



2. Remove the shift tray [A] (x1).



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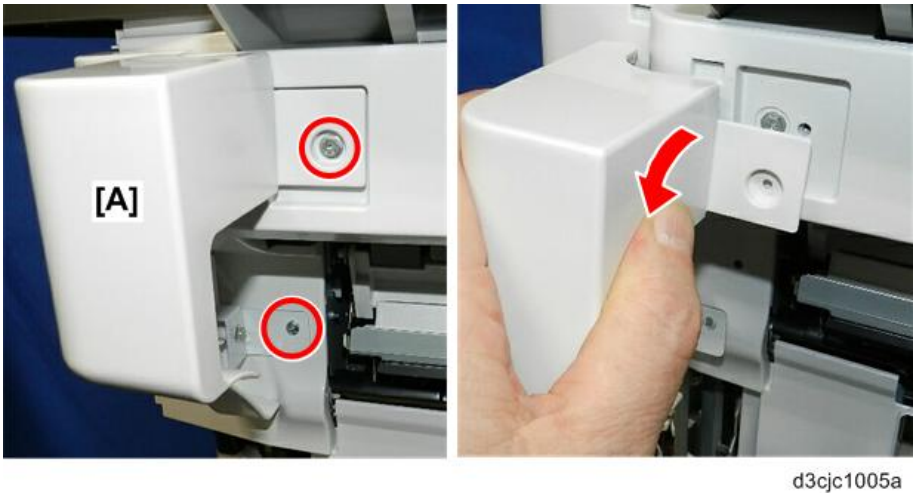
3. Push the guides in to the center.

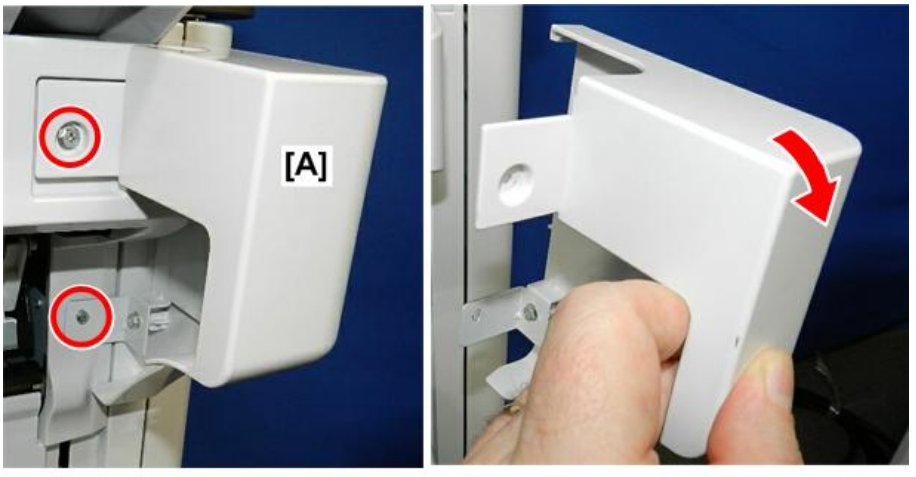
d3cjc1004

4. Remove the rear paper guide cover [A] (x2).



d3cjc1005a

5. Remove the front paper guide cover [A] (x2).



d3cjc1006a

6. Remove the paper guide cover [A] screws (x2).

d3cjc1007a

7. Disconnect the front tab, and then remove the cover.

d3cjc1008a

Lower Tray

1. Lower tray [A]

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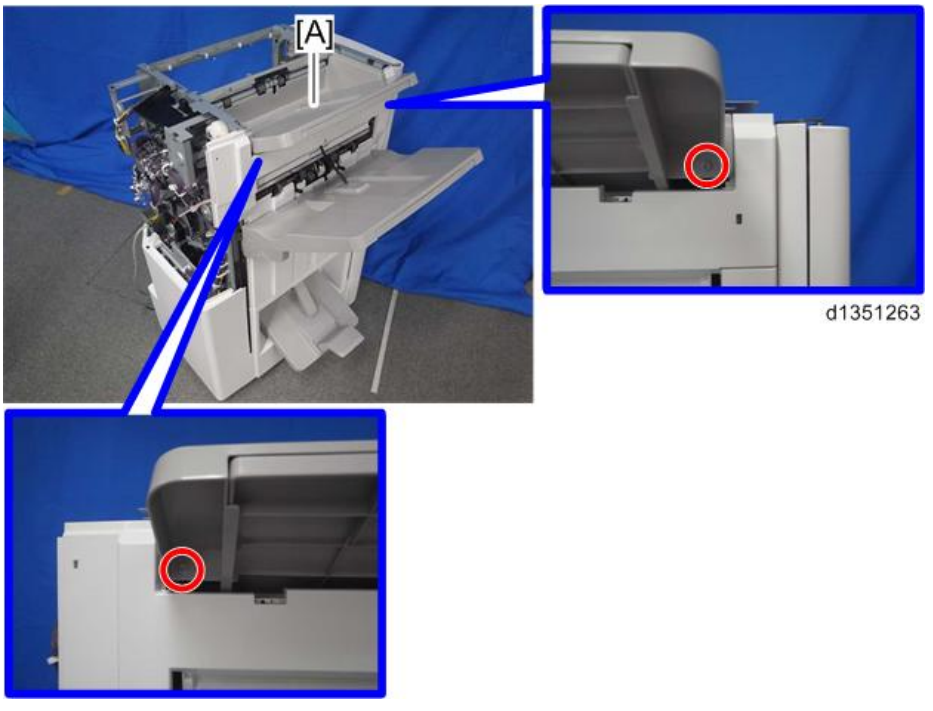
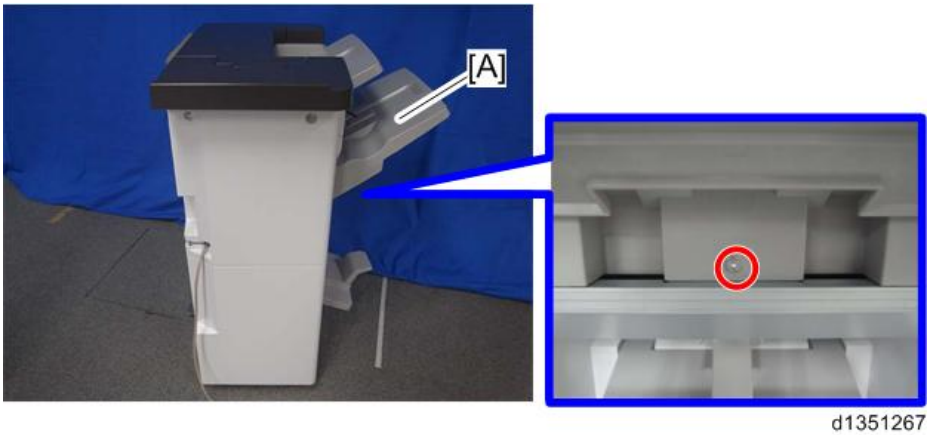
Proof Tray

1. Remove the following covers.
    - Rear upper cover (page 9)
    - Upper cover (page 9)
2. Proof tray [A] (x 2)



Upper Tray

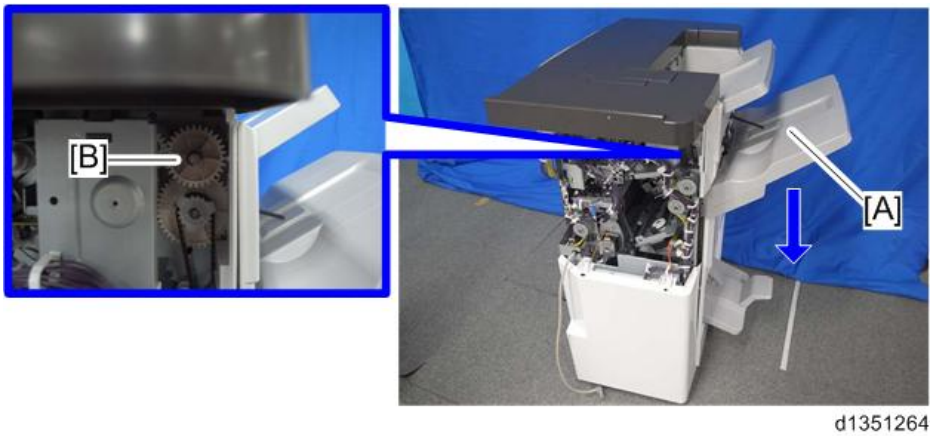
1. Upper tray [A] (☞ x 1)



End Fence (Booklet Finisher SR3240 Only)

1. Rear Upper Cover (page 9)
2. Support the upper tray [A] with your right hand.

3. Pull gear [B] toward you to release.
4. Slowly lower the upper tray until it stops.



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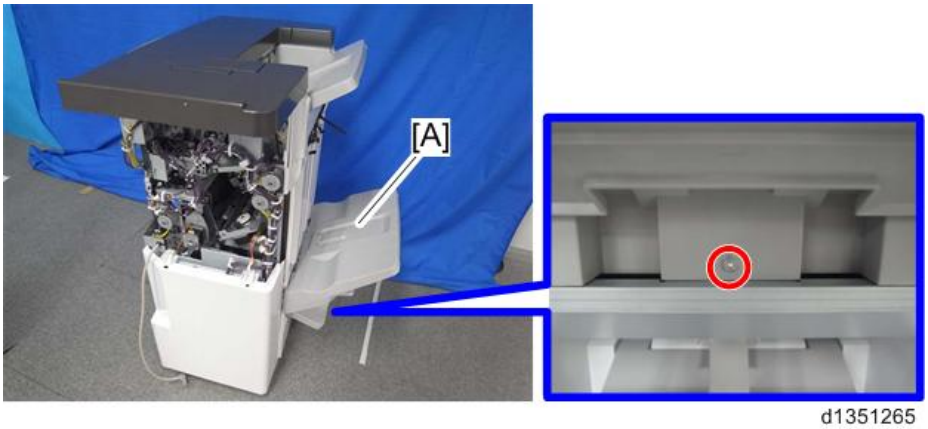
5. Upper tray [A] (x 1)



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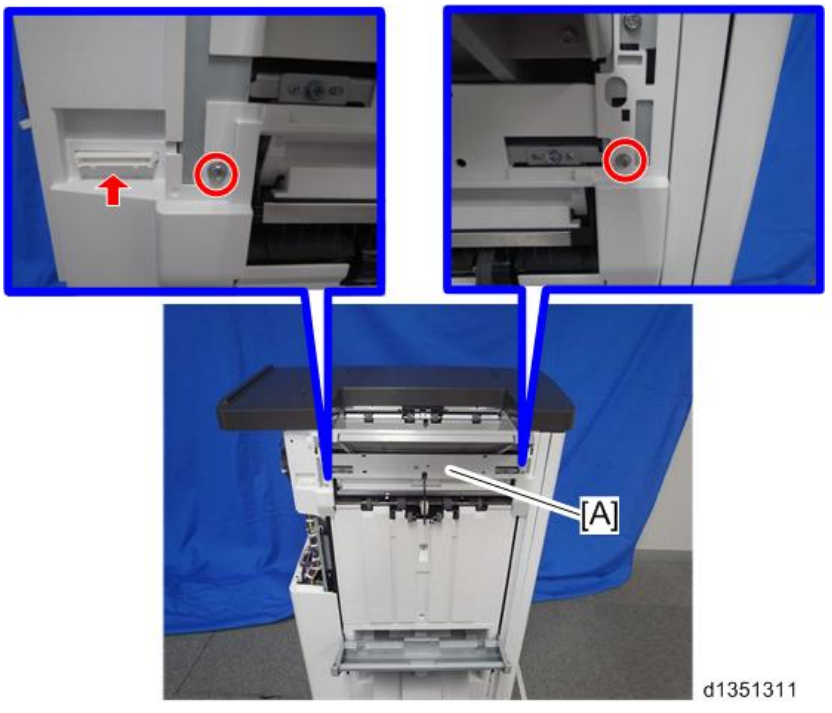
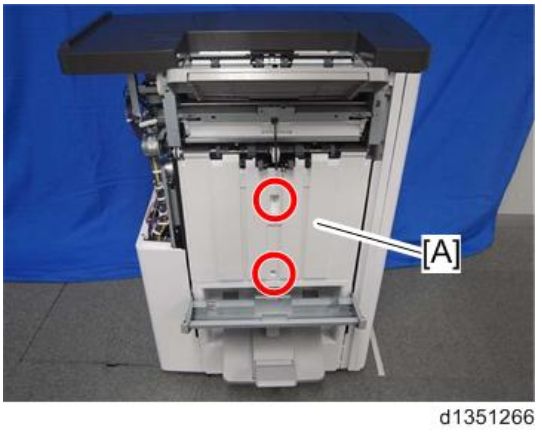
6. Lower Tray (page 15)
7. Right upper cover [A] (x 2, connector bracket x 1)

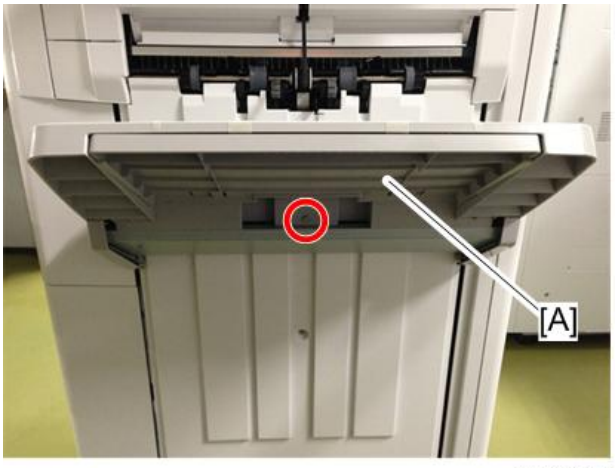


8. End fence [A] (x 2)



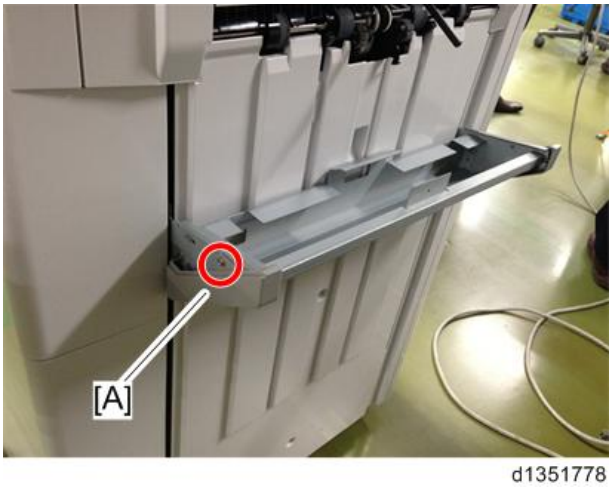
Left Cover (Finisher SR3230 Only)

1. Upper Tray [A] (x 1)



d1351777

2. Rear mold bracket [A] (x 1)



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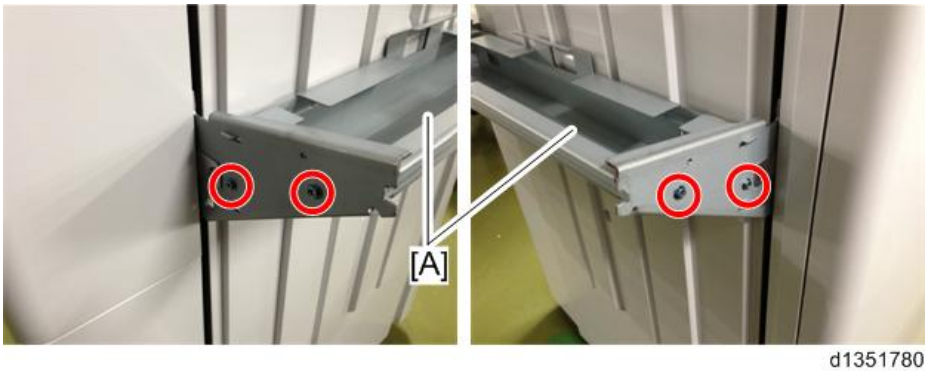
3. Front mold bracket [A] (x 1)

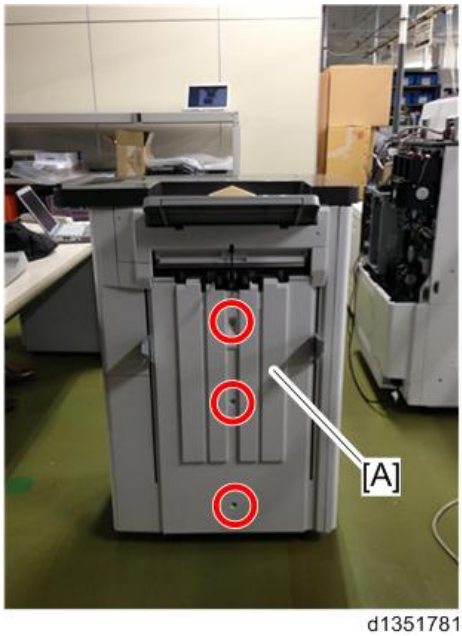
d1351779

4. Shift tray bracket [A] (x 4)



d1351780

5. Left cover [A] (x 3)

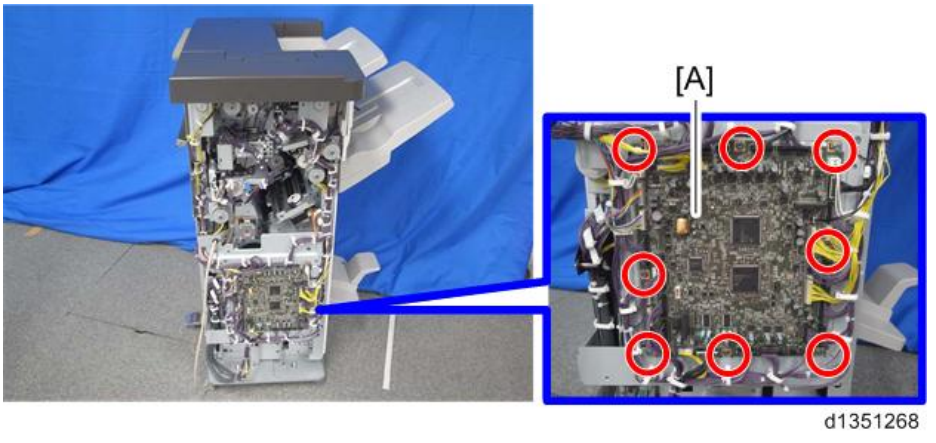


d1351781

Boards

Main Board

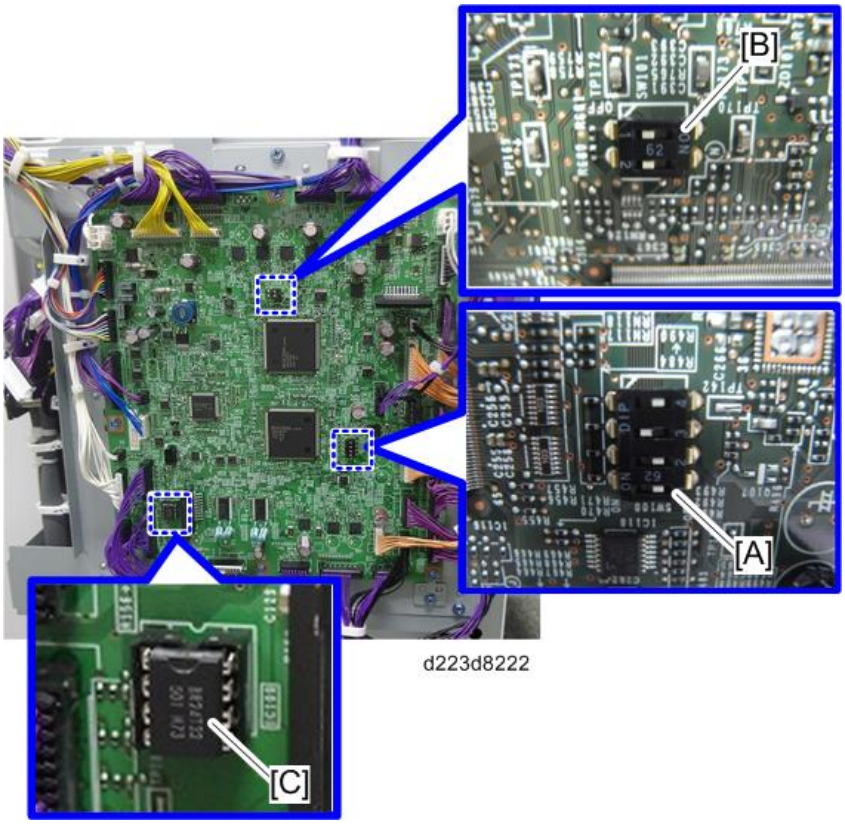
1. Remove the following covers.
    - Rear upper cover (page 9)
    - Rear lower cover (page 9)
2. Main board [A] (x 4, connector x all)



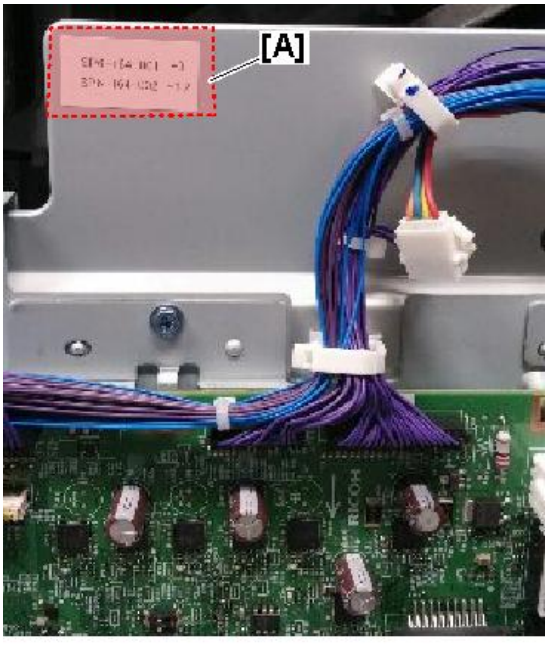
When replacing the main board

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

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 [C] from the old board and install it on the new board.



6. Locate the label [A] attached near the right corner of the board.



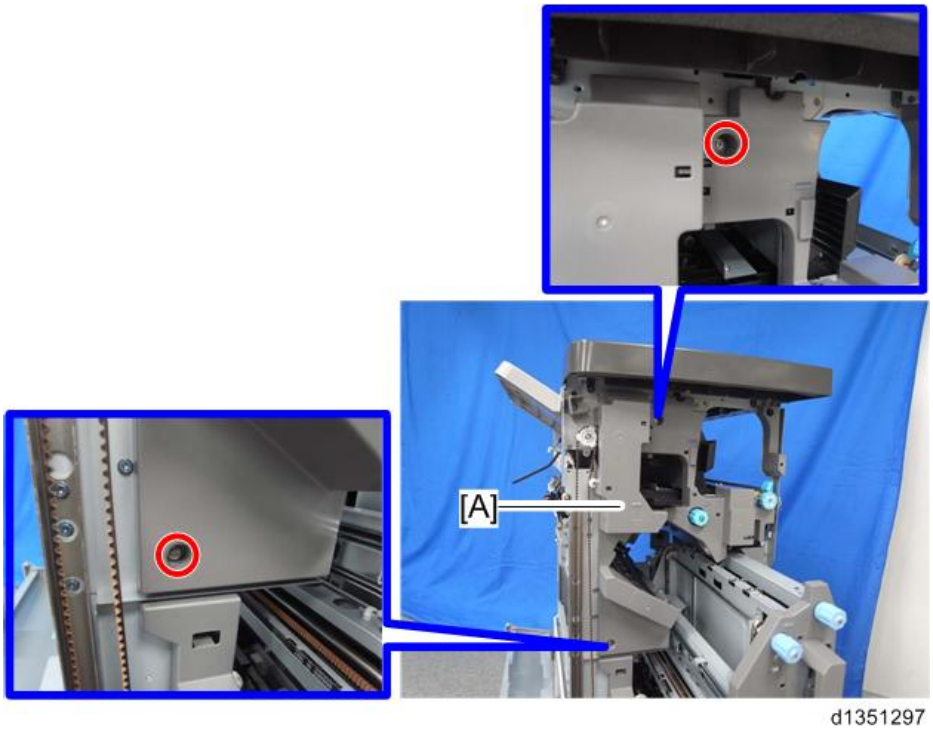
d223d8235b

7. Go into the SP mode, open these SP codes, and then enter the numbers you see on the label.
    - SP6121-001 NV Adj. Data: Jog Position: Factory Adj.
    - SP6121-002 NV Adj. Data: Fold Position: Factory Adj.

Main Motors

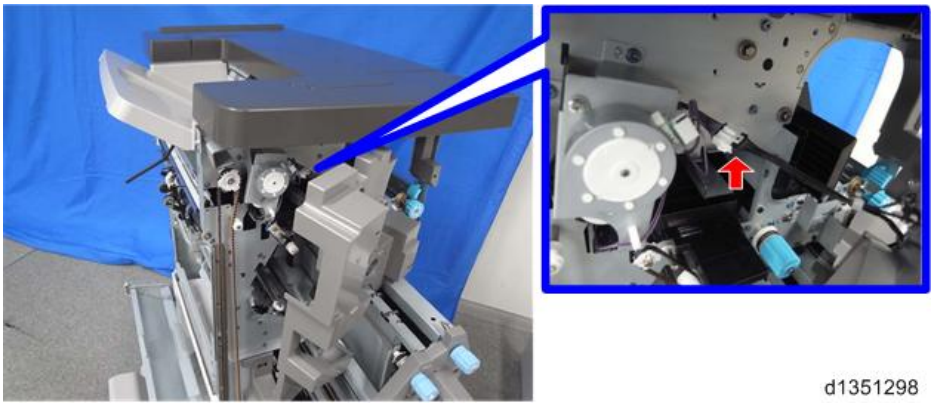
Corner Stapling Unit

1. Remove the following covers.
    - Front cover (page 11)
    - Front left side cover (page 11)
    - End fence (page 16)
    - Rear upper cover (page 9)
    - Rear lower cover (page 9)
2. Pull out the booklet stapler unit, and remove the inner upper cover [A]. (x 2)



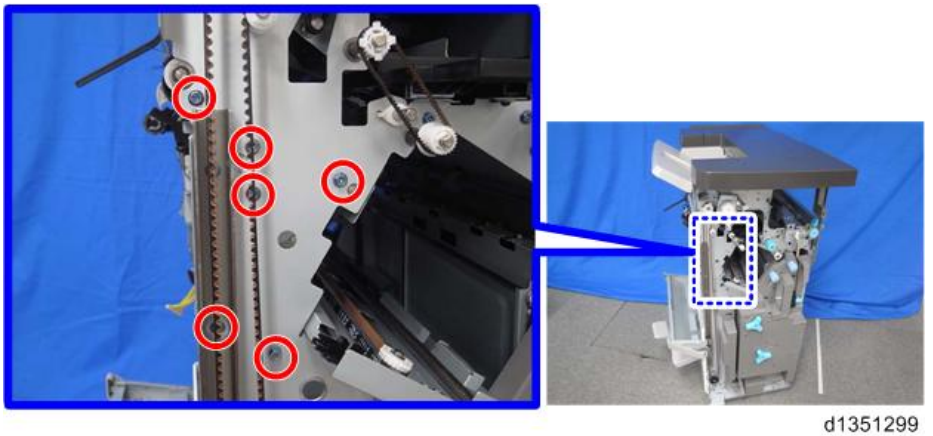
Note

- Disconnect the harness from the back side of the inner upper cover when you remove the inner upper cover.



d1351298

3. Remove the screws from the front side of the finisher. (x 6)



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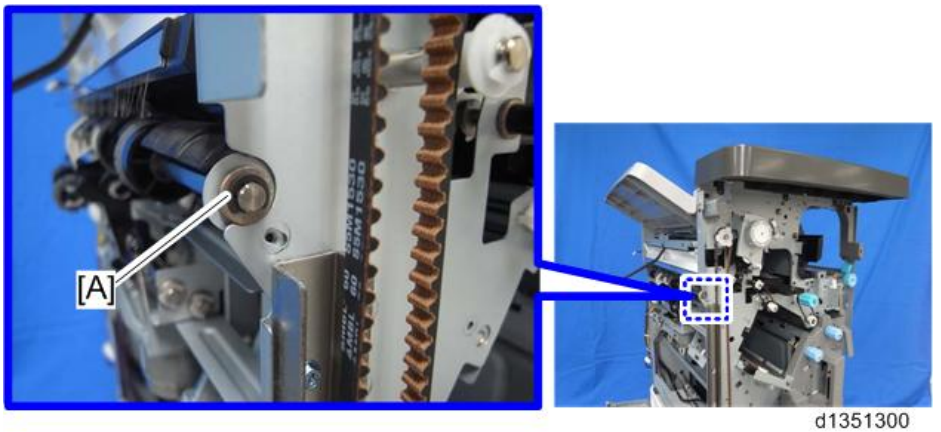
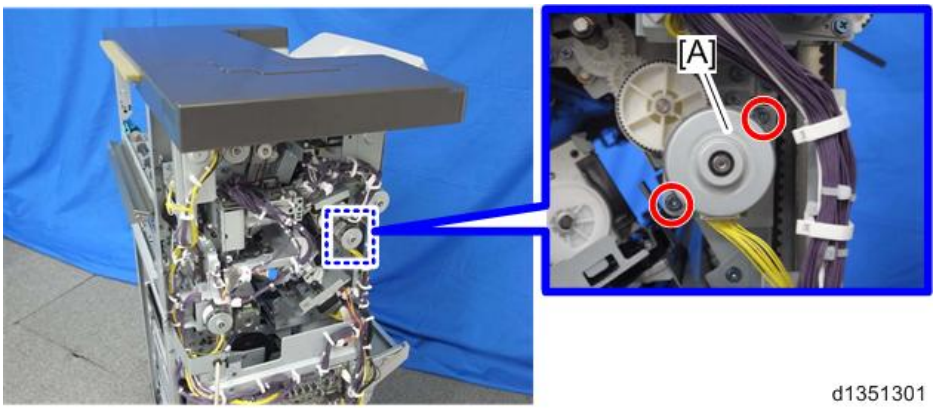
4. Remove the bushing [A] from the front side of the finisher. (C-ring x 1)

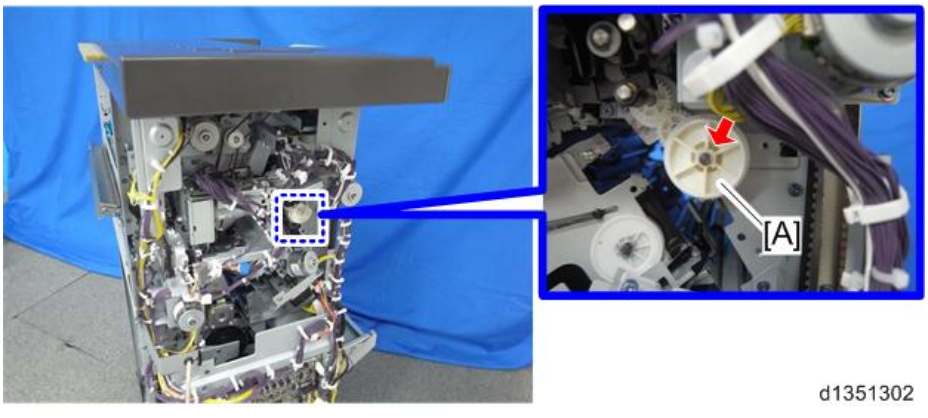


d1351300

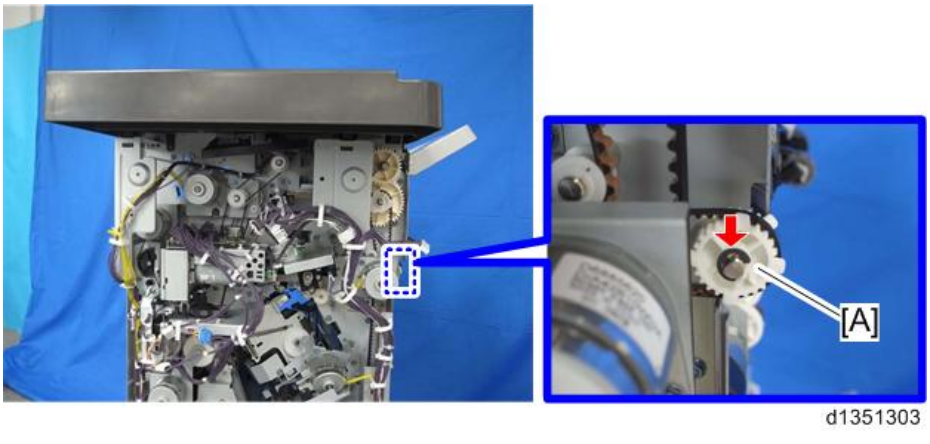
5. Remove the pressure release motor bracket [A] from the rear side of the finisher. (x 2)



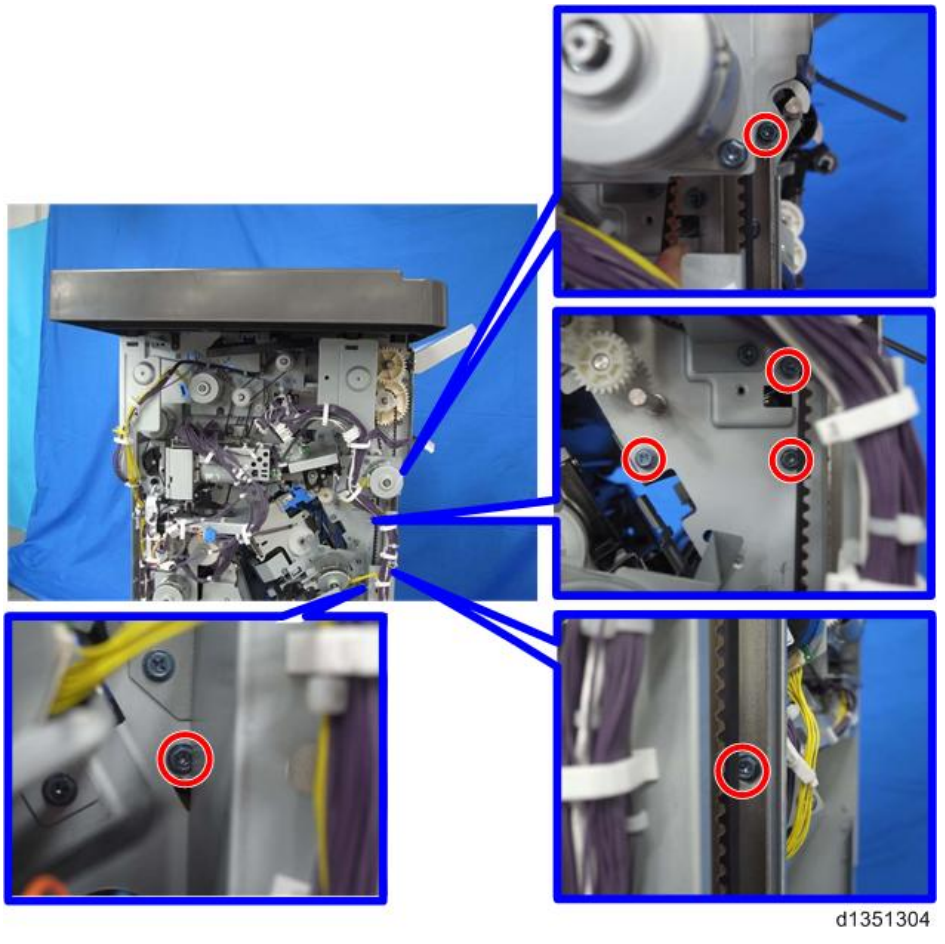
6. Remove the gear [A] from the rear side of the finisher. (snap-fit x 1)



7. Remove the pulley [A] from the rear side of the finisher. (C-ring x 1)



8. Remove 6 screws from the rear side of the finisher. (x 6)



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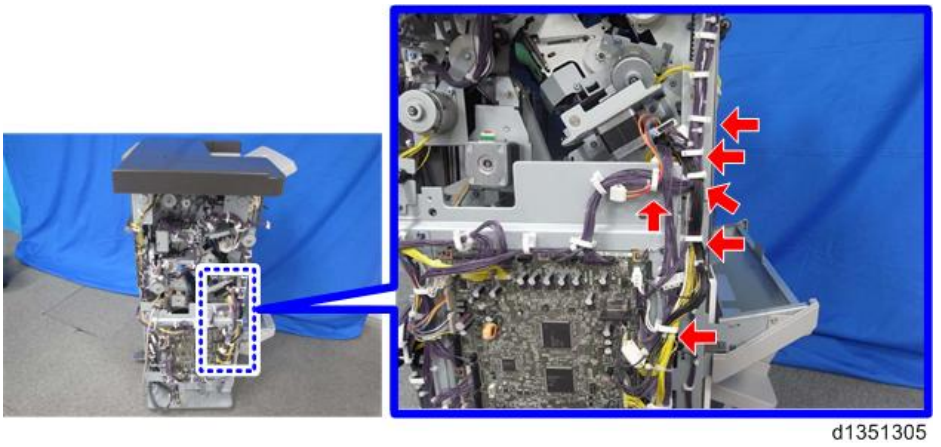
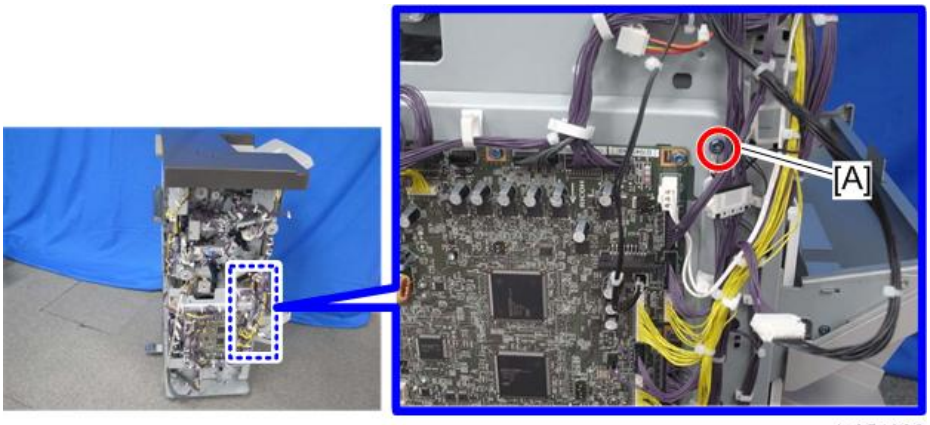
9. Remove the clamps shown below. (x 6)



d1351305

10. Remove the ground wire [A] of the main board. (x 1)



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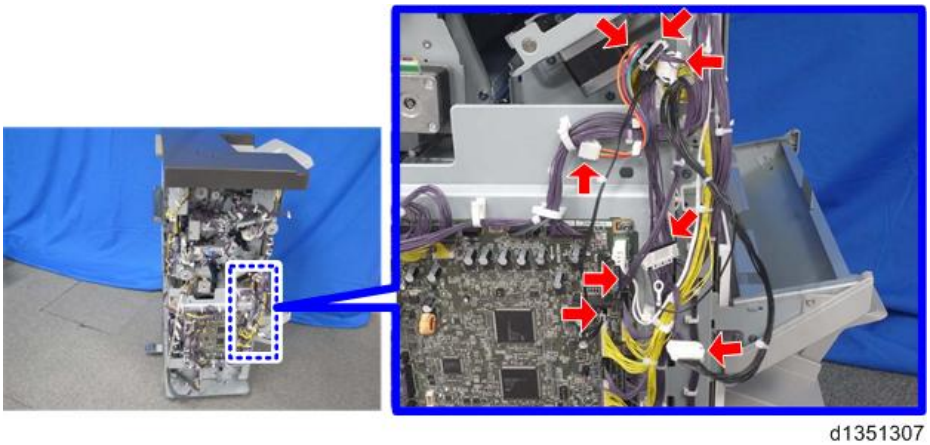
11. Disconnect the connectors shown below. (x 8)



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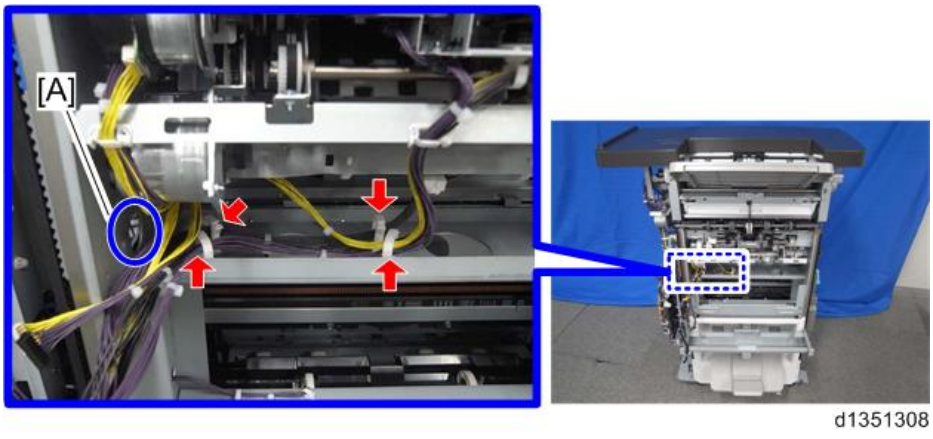
12. Pull out the harnesses disconnected in step 11 to the right side of the finisher through the hole [A].
13. Remove the harness from the clamps. (x 4)



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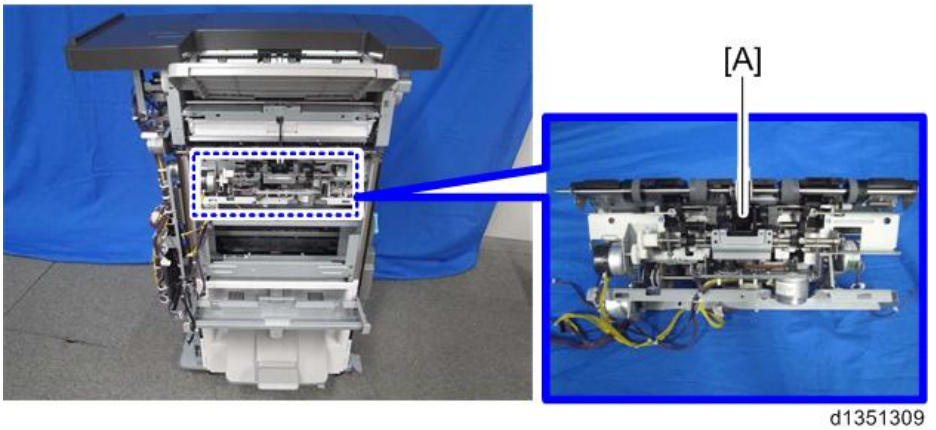
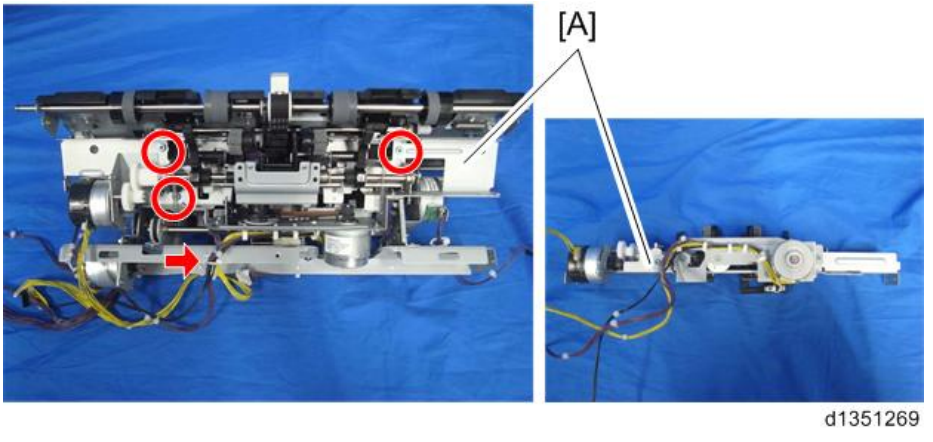
14. Remove the corner stapling unit [A] from between the front and left plate.

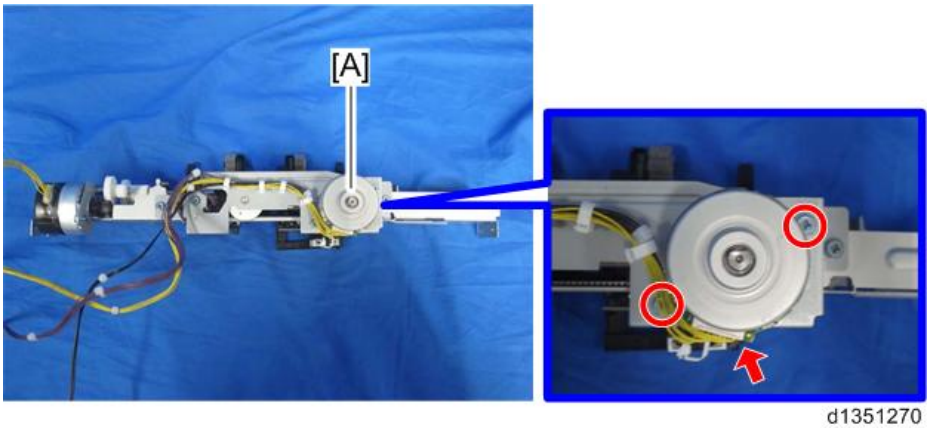


Paper Exit Gate Motor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)

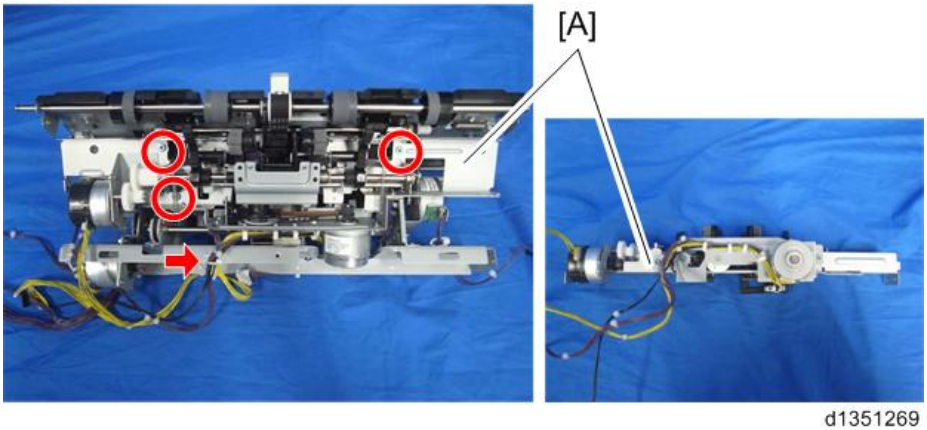


3. Paper exit gate motor [A] (x 2, x 1)

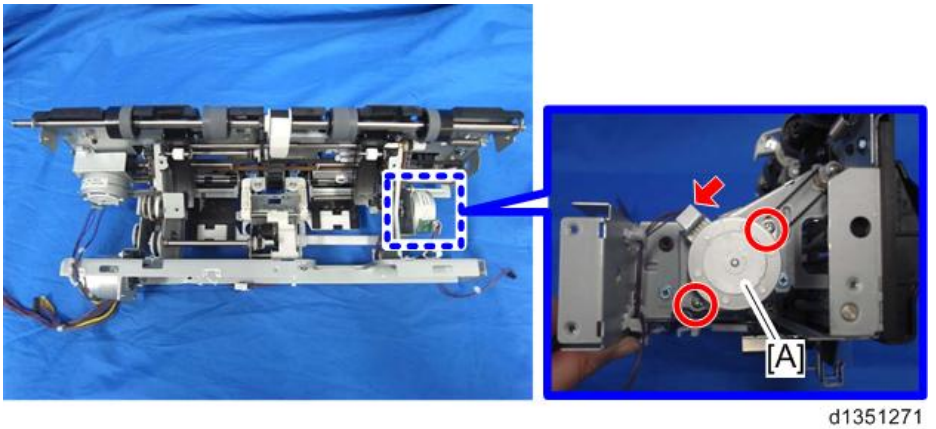


Leading Edge Guide Motor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)



3. Leading edge guide motor [A] (x 2, x 1)



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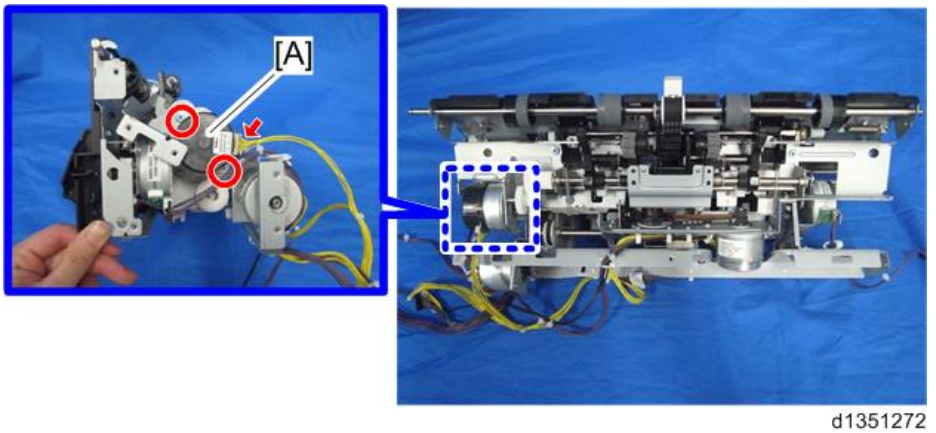
Trailing Edge Pressure Plate Motor

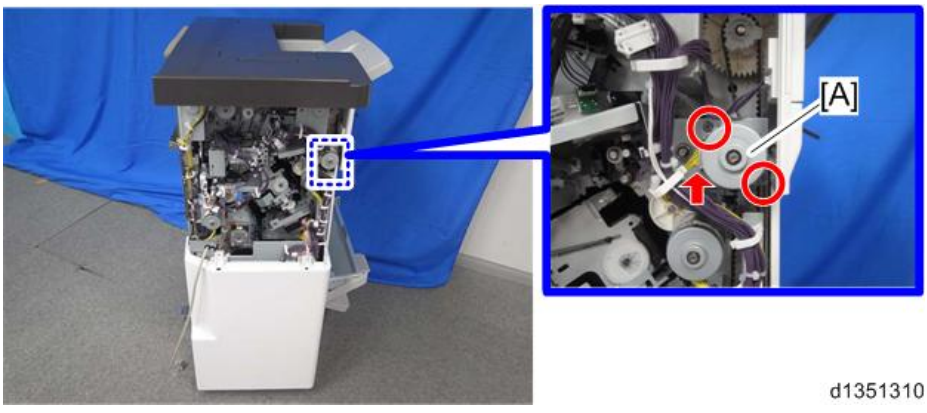
1. Corner stapling unit (page 25)
2. Trailing edge pressure plate motor [A] (x 2, x 1)



d1351272

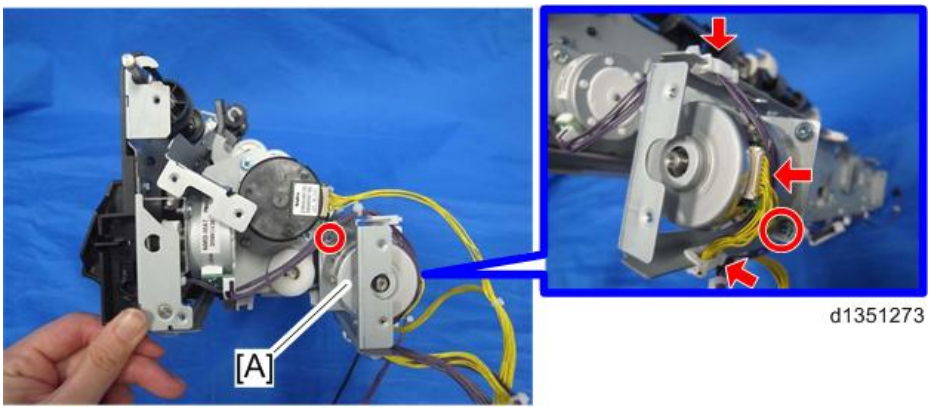
Stacking Roller Motor

1. Rear upper cover (page 9)
2. Stacking roller motor [A] (x 2, x 1)



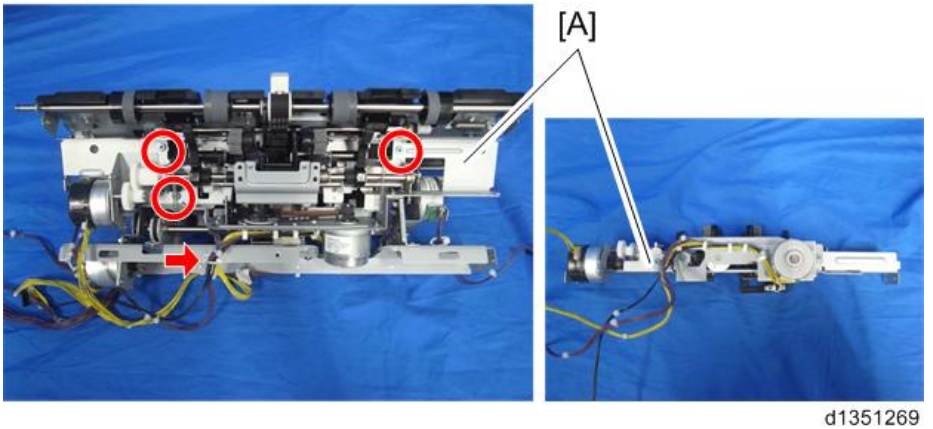
Feed Out Motor

1. Corner stapling unit (page 25)
2. Feed out motor [A] (x 2, x 1, x 2)

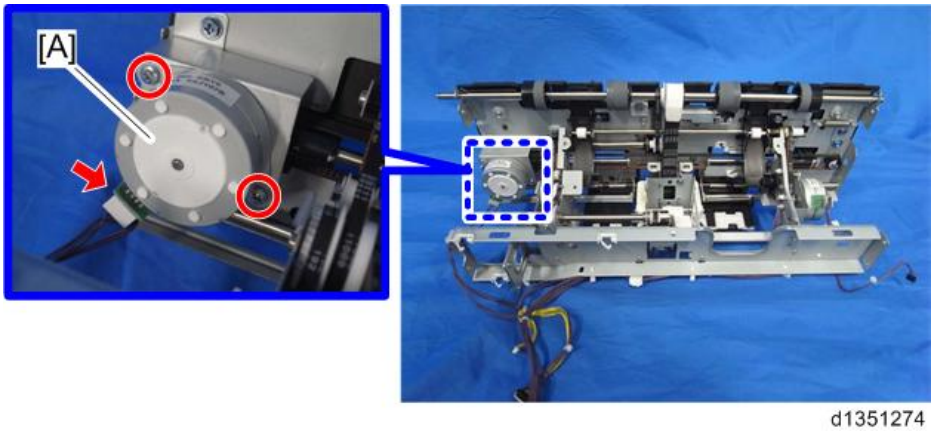


Jogger Motor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)

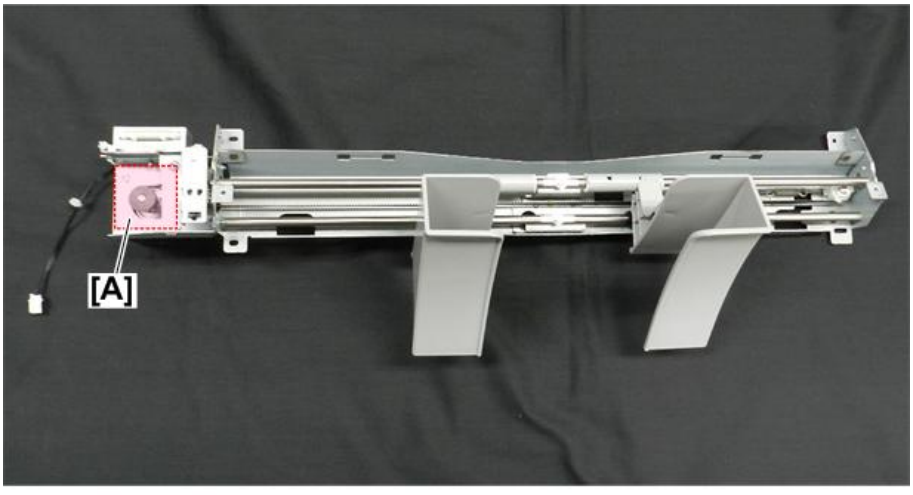


3. Feed out motor (page 33)
4. Jogger motor [A] (x 2, x 1)



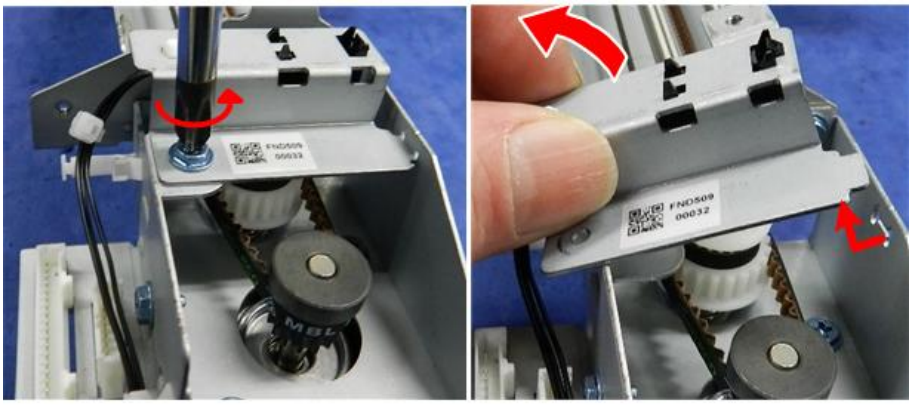
Paper Guide Motor

1. The paper guide motor is at [A].



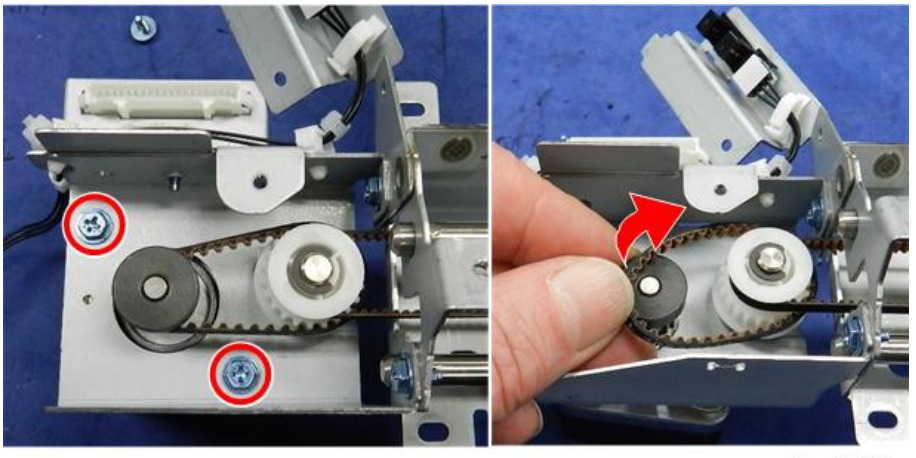
d3cgc3005c

2. Remove the paper guide unit. (page 68)
3. Remove sensor bracket (x1).



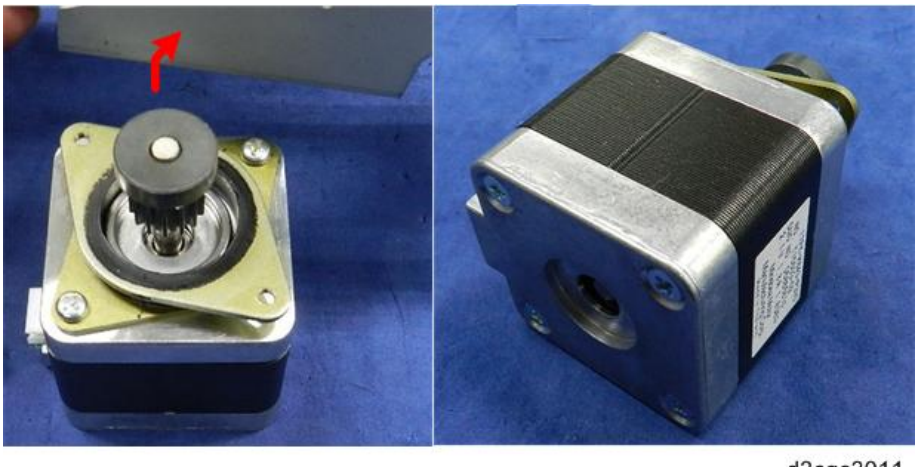
d3cgc3006a

4. Unfasten the motor, and disconnect the belt (x2, x1).



d3cgc3010a

5. Disconnect the motor harness, and then remove the motor (x1).



d3cgc3011

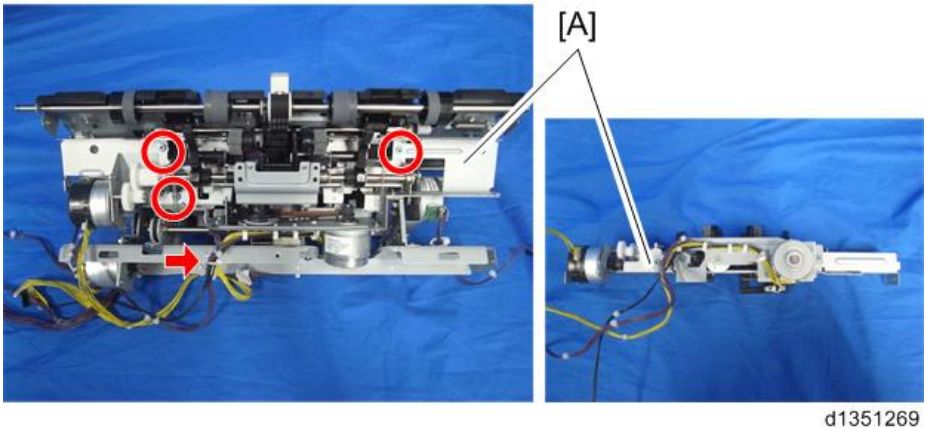
6. When you re-install the motor, make sure that the connector is pointing to the back of the unit.

d3cgc3012

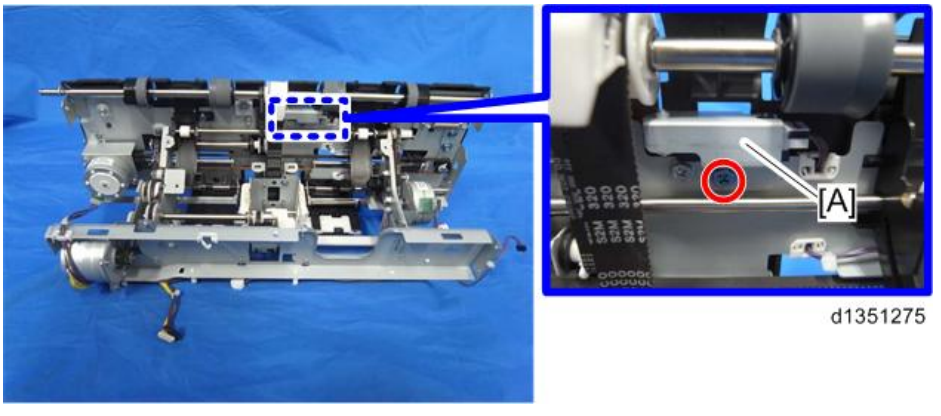
Sensors

Shift Tray Paper Sensor

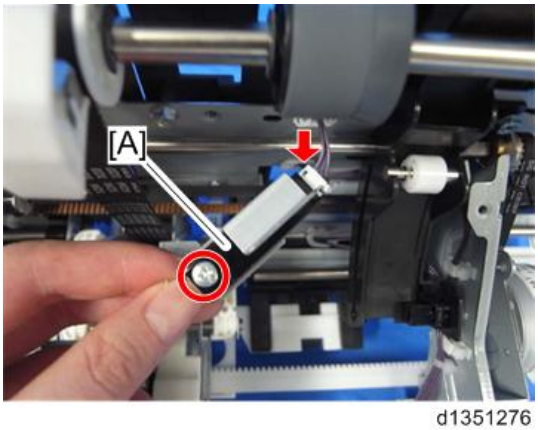
1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)



3. Shift tray paper sensor bracket [A] (x 1)



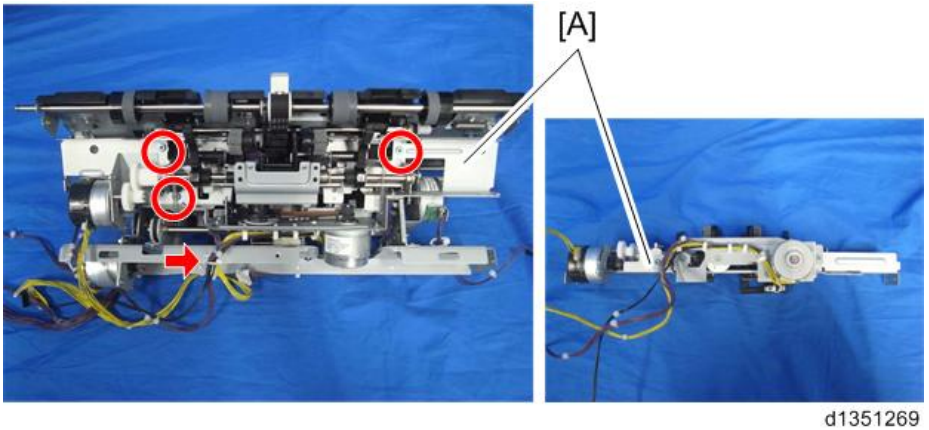
4. Shift tray paper sensor [A] (x 1, x 1)



d1351276

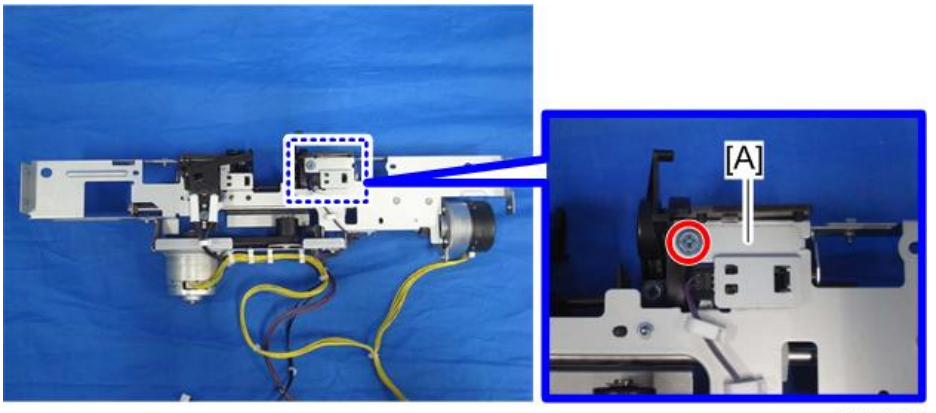
Trailing Edge Pressure Plate HP Sensor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)



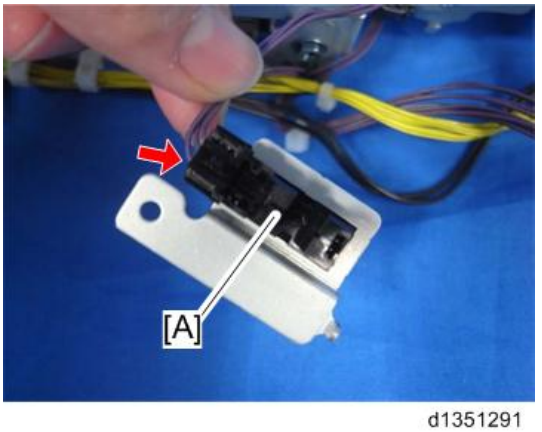
d1351269

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



d1351290

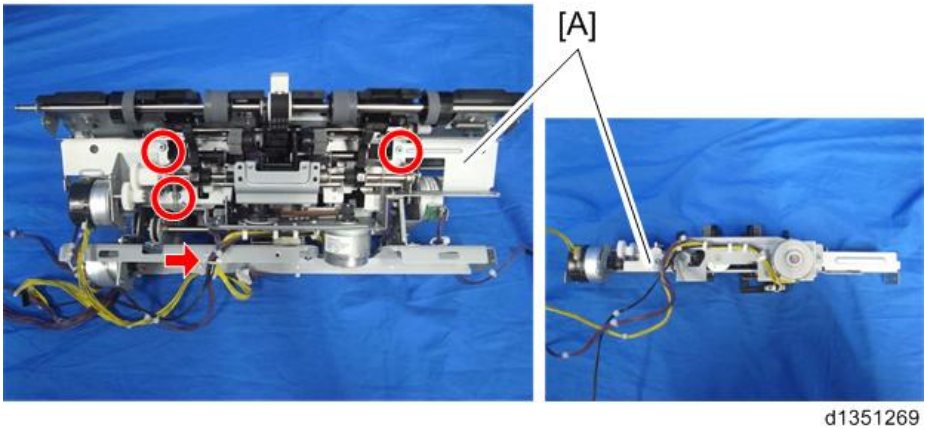
4. Trailing edge pressure plate HP sensor [A] (x 1)



d1351291

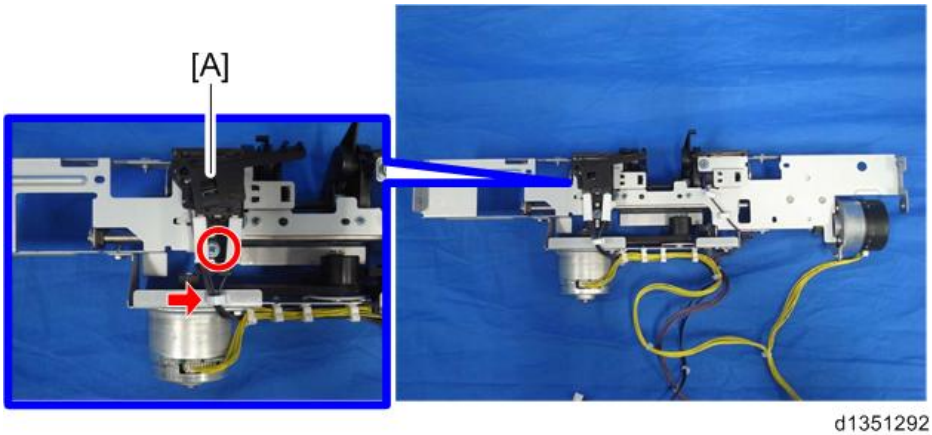
Stacking Roller HP Sensor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)



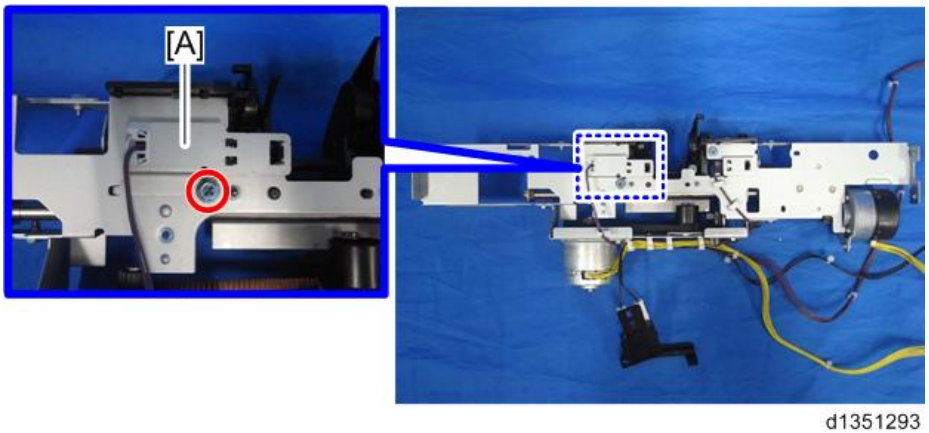
d1351269

3. Turn back the stapler bracket, and remove the paper exit gate motor bracket [A]. (x 1, x 1)



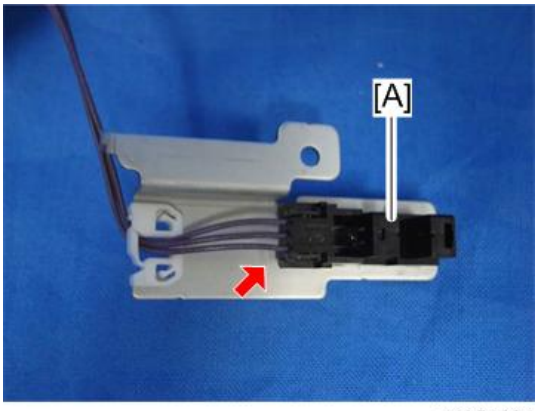
d1351292

4. Stacking roller HP sensor bracket [A] (x 1)



d1351293

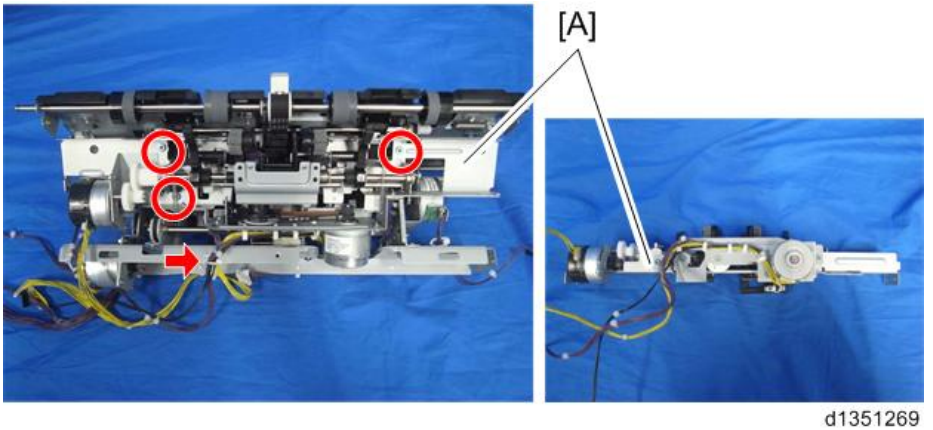
5. Stacking roller HP sensor [A] (x 1)



d1351294

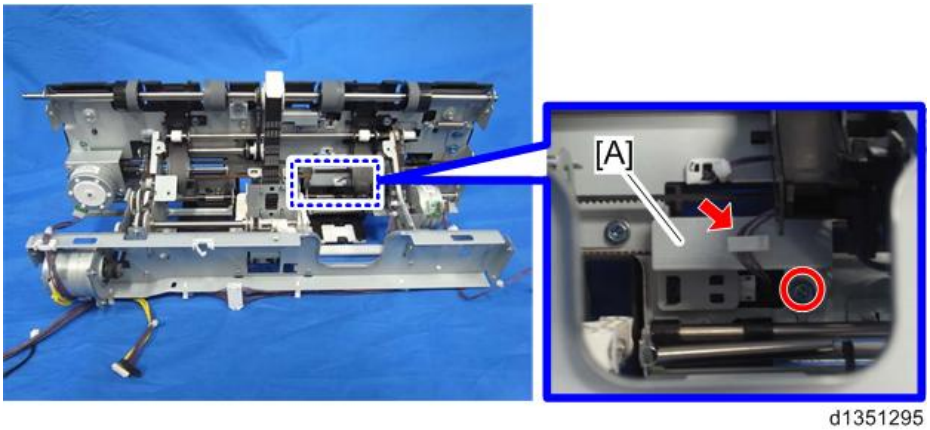
Staple Tray Paper Sensor

1. Corner stapling unit (page 25)
2. Stapler bracket [A] (x 3, x 1)



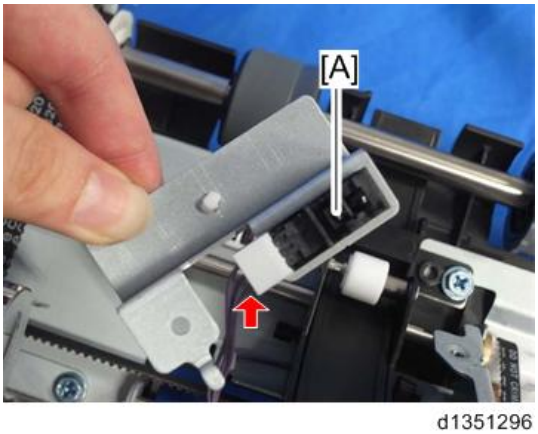
d1351269

3. Staple tray paper sensor bracket [A] (x 1, x 1)



d1351295

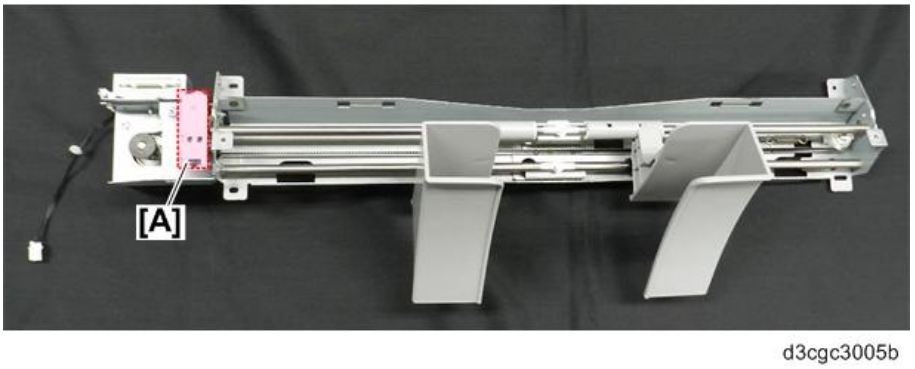
4. Staple tray paper sensor [A] (x 1)



d1351296

Paper Guide HP Sensor

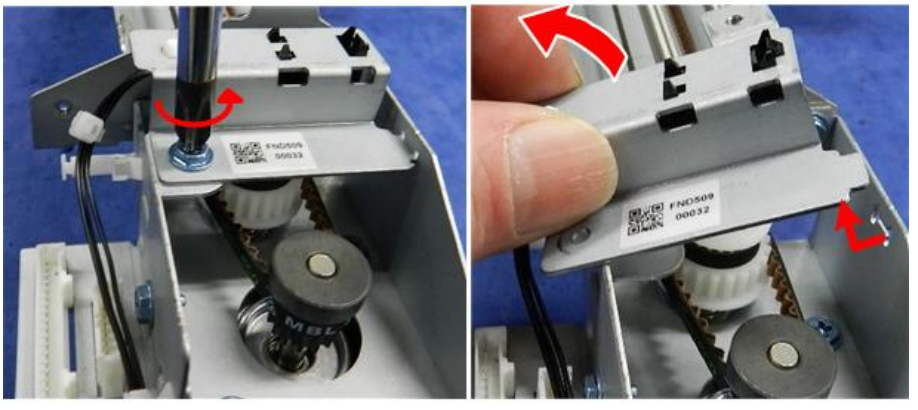
1. The paper guide HP sensor is located at [A].



d3cgc3005b

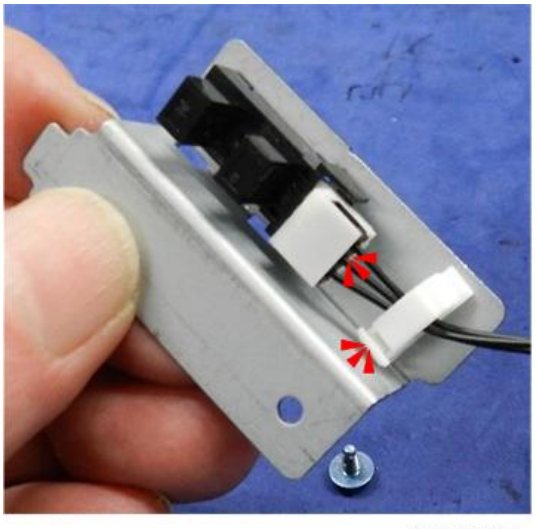
2. Remove the paper guide unit. (page 68)

3. Remove sensor bracket [A] (x1).



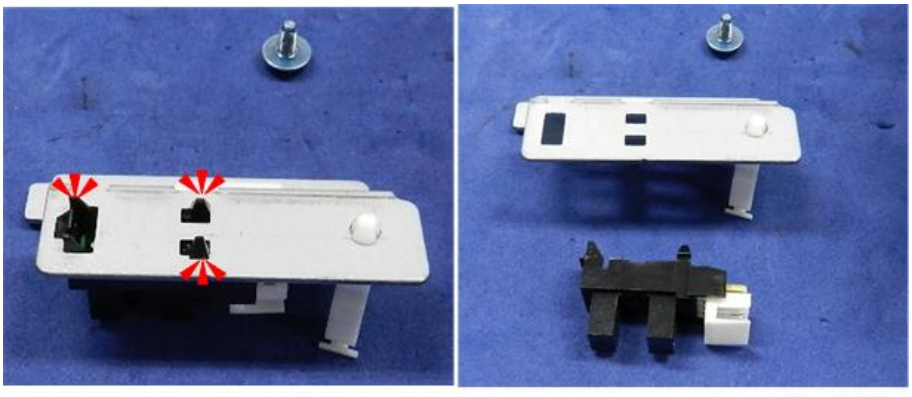
d3cgc3006a

4. Open the clamp and disconnect the sensor (x1, x1).



d3cgc3007a

5. Separate the sensor and bracket (x3).

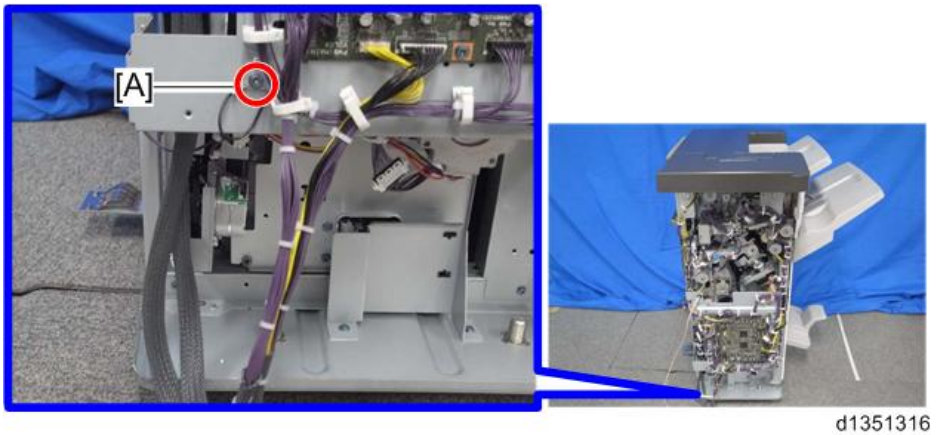


d3cgc3008a

Booklet Unit Motors

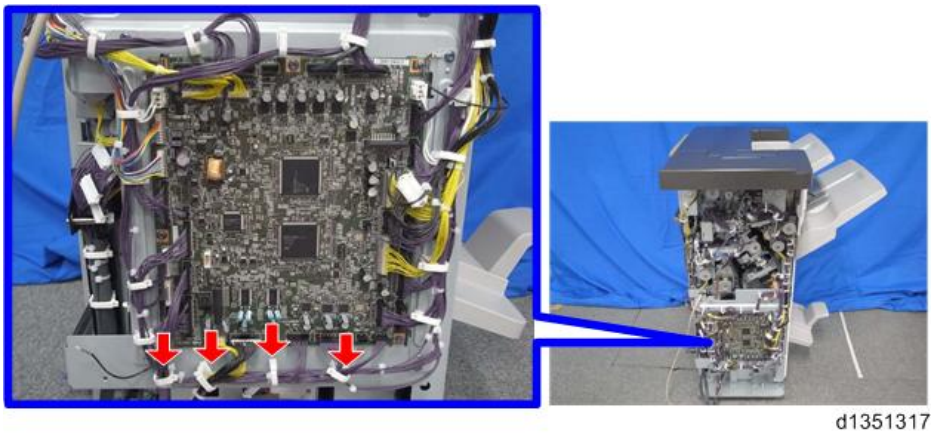
Booklet Stapler Unit

1. Remove the following covers.
   - Rear Upper Cover (page 9)
   - Rear Lower Cover (page 9)
2. Disconnect the ground wire [A] in the left lower side of the main unit. (x 1)



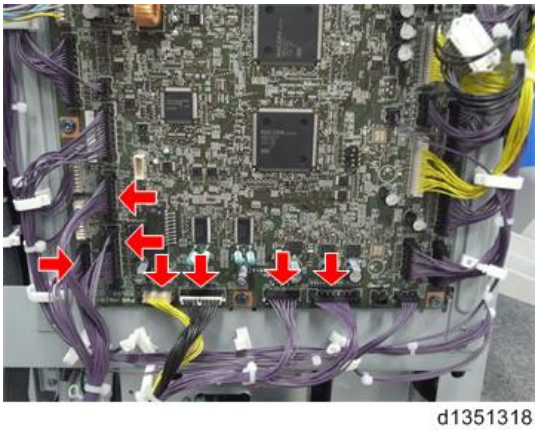
d1351316

3. Release the harness from the 4 clamps shown below. (x 4)



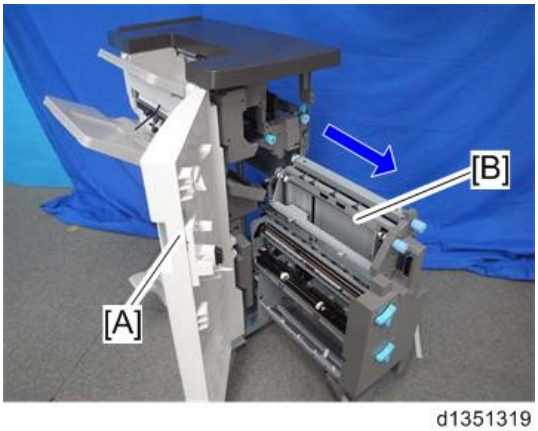
d1351317

4. Disconnect the following 7 connectors from the main board. (x 7)



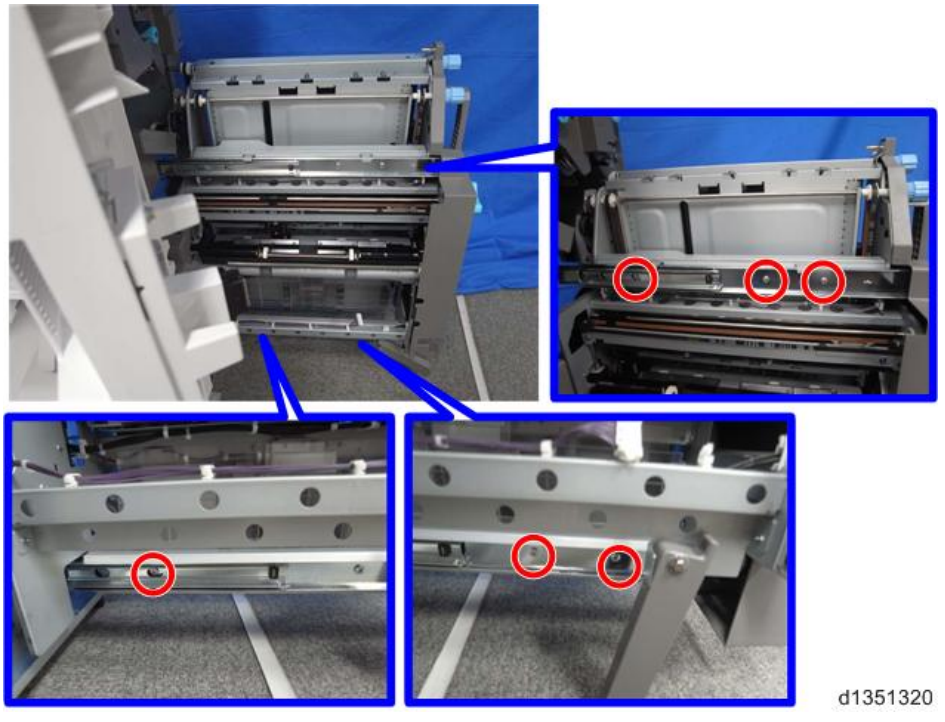
d1351318

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



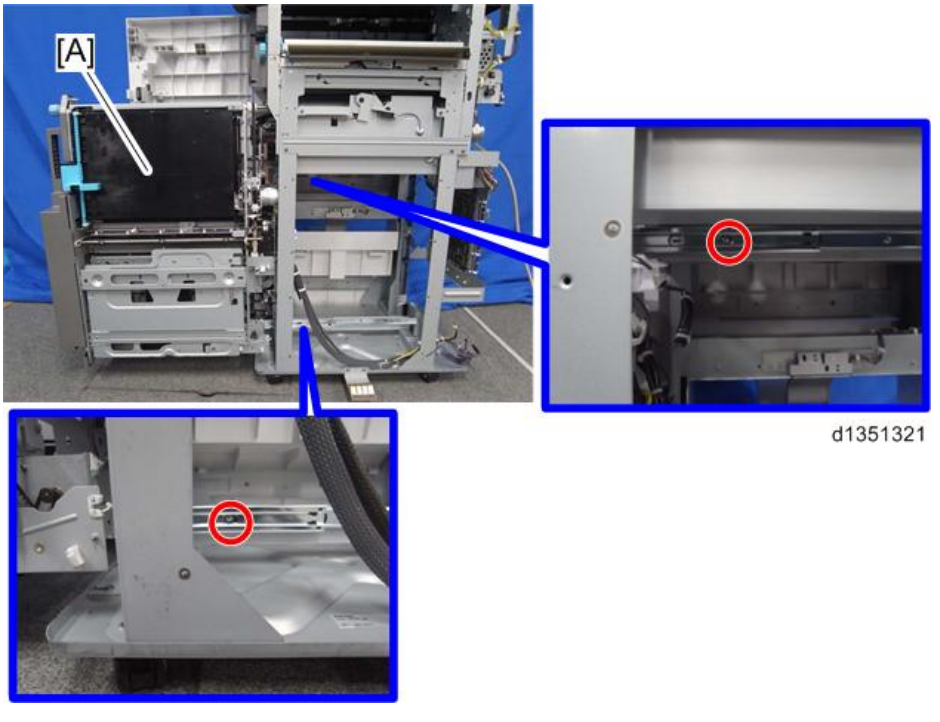
d1351319

6. Remove the following screws. (x 6)



d1351320

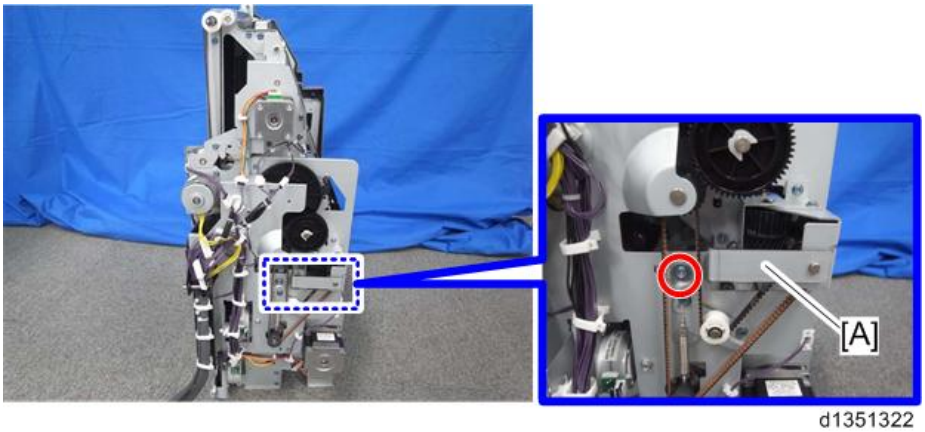
7. Lift up to remove the booklet stapler unit [A]. (x 2)



d1351321

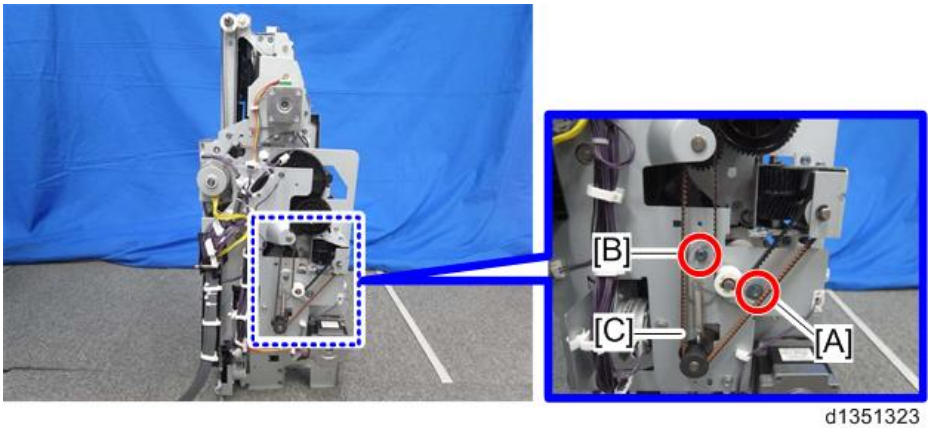
Press Folding Motor

1. Booklet stapler unit (page 46)
2. Remove bracket [A]. (x 1)



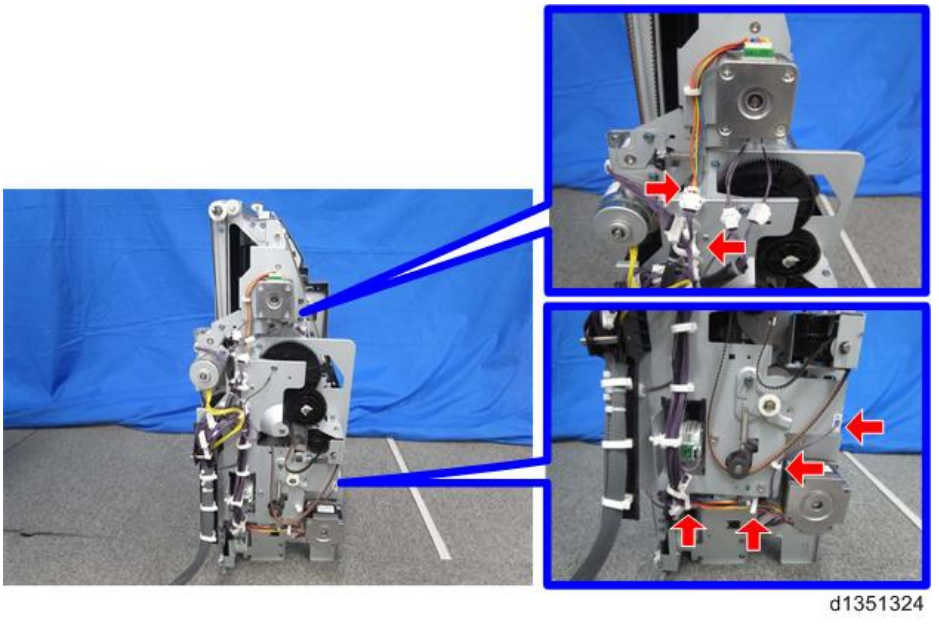
d1351322

3. Remove the screw [A] shown in the photo below. (x 1)
4. Loosen the screw [B] to loosen the press folding motor belt [C].



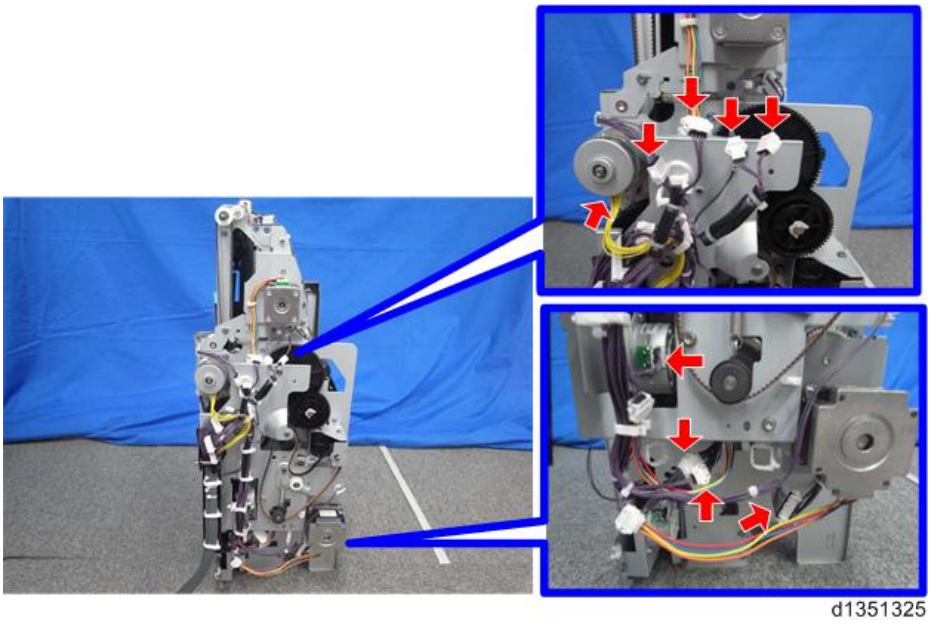
d1351323

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



d1351324

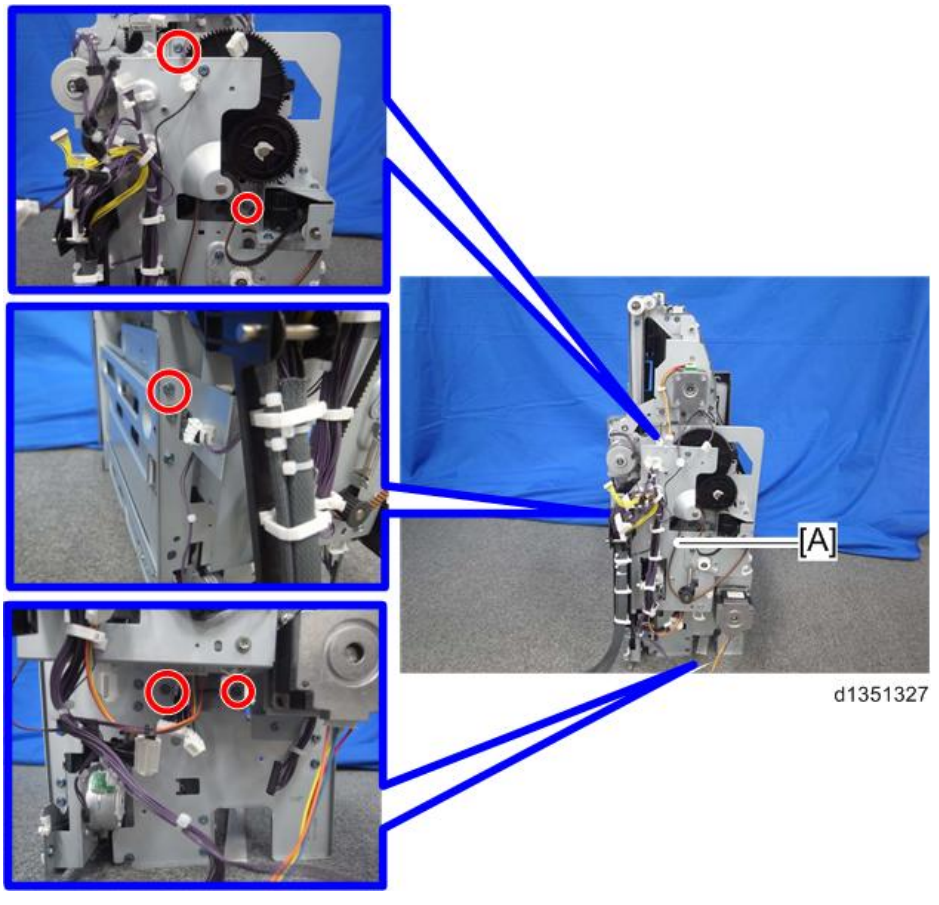
6. Disconnect the 9 connectors shown below. (☞ x 9)



d1351325

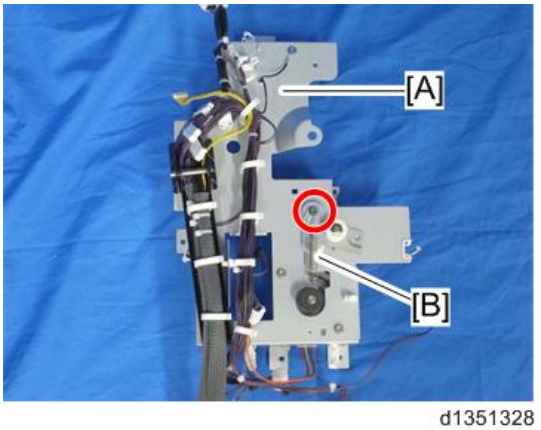
7. Disconnect the 2 connectors shown below. (☞ x 2)

8. Remove the press folding motor bracket [A]. (x 5)



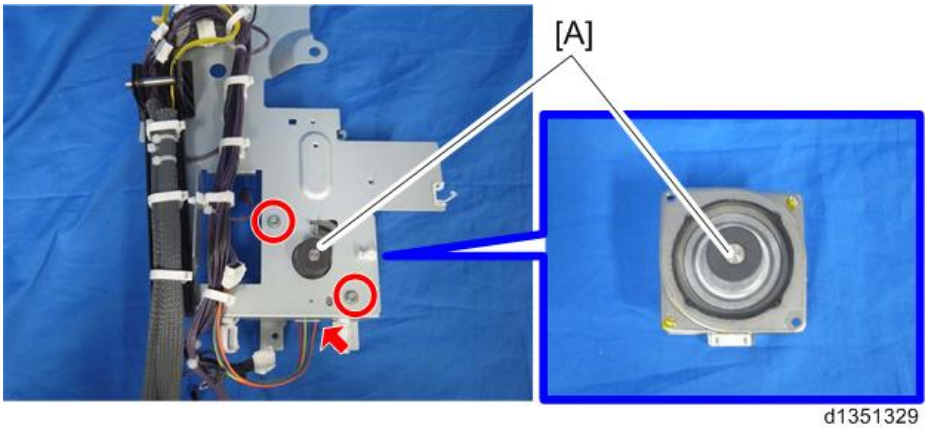
d1351327

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



d1351328

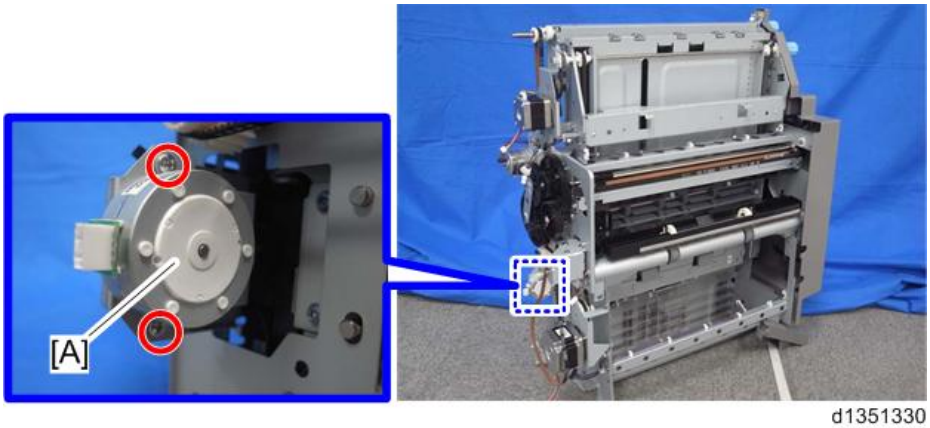
10. Remove the press folding motor [A] (x 2, x 1)



d1351329

Booklet Jogger Motor

1. Booklet stapler unit (page 46)
2. Press folding motor bracket (page 49 "Press Folding Motor")
3. Booklet Jogger Motor [A] (x 2)

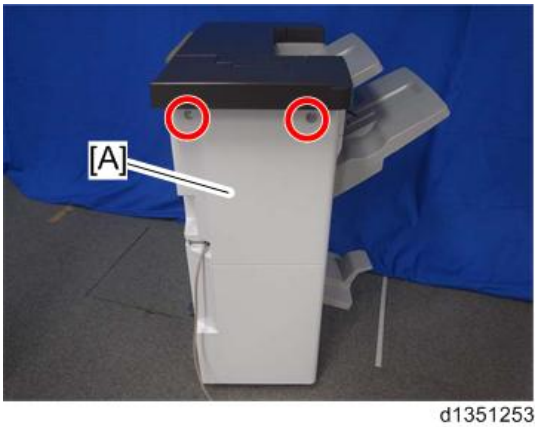


d1351330

Stapler Unit

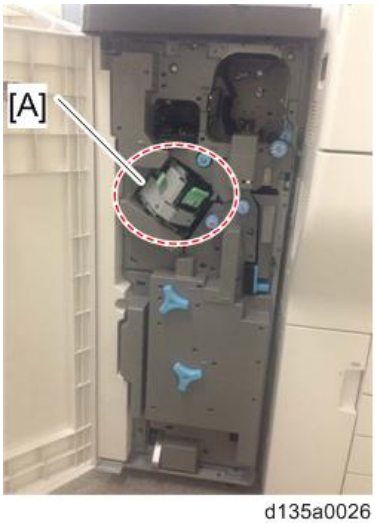
Stapler Unit

1. Remove the rear upper cover [A]. (x 2)



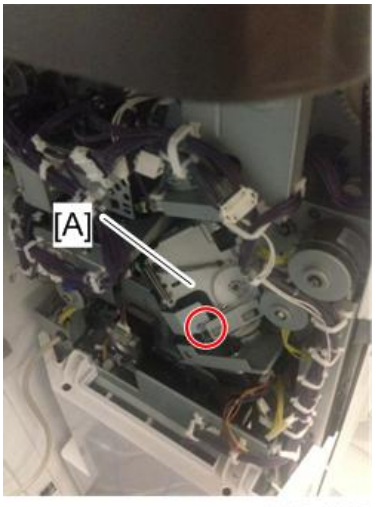
d1351253

2. Open the front door and push the stapler [A] to the rear side of the finisher.



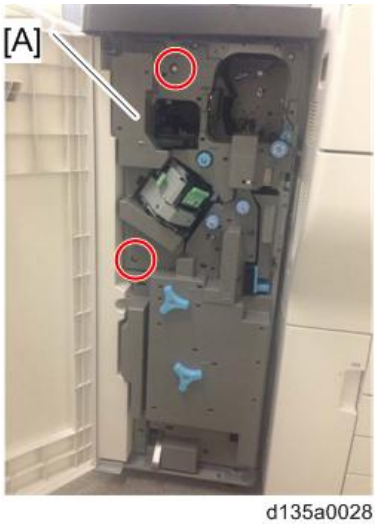
d135a0026

3. At the rear side, remove the screw circled in the photo below from the stapler [A] (x 1).



d135a0027

4. Push the stapler to the front side of the finisher.
5. Remove the inner upper cover [A]. (x 2)

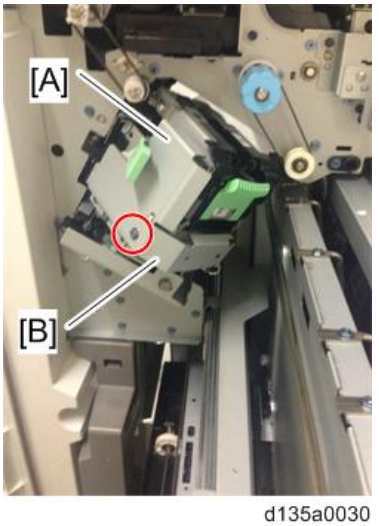


d135a0028

6. Pull out the stapler unit [A].

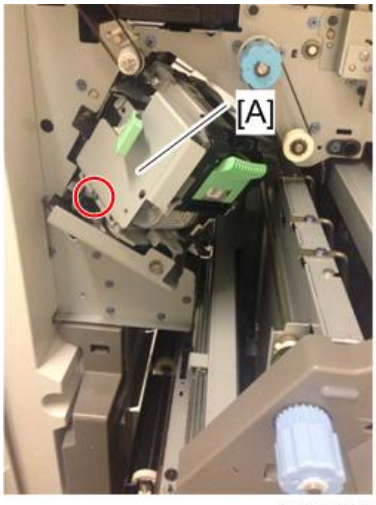
d135a0029

7. Remove the bracket [B] from the stapler [A]. (x 1)



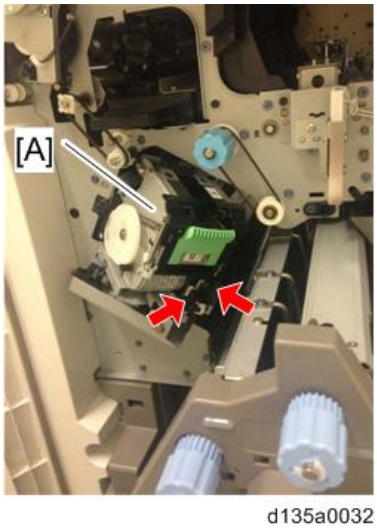
d135a0030

8. Remove bracket [A]. (x 1)



d135a0031

9. Remove the stapler [A]. (x 2)



d135a0032

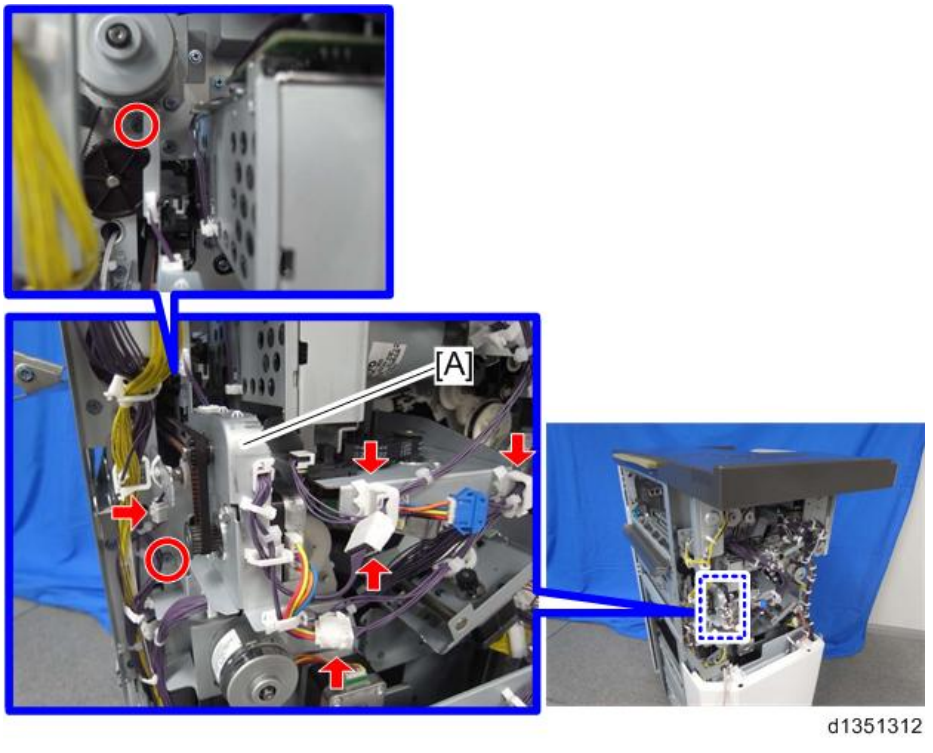
Punch Unit

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.

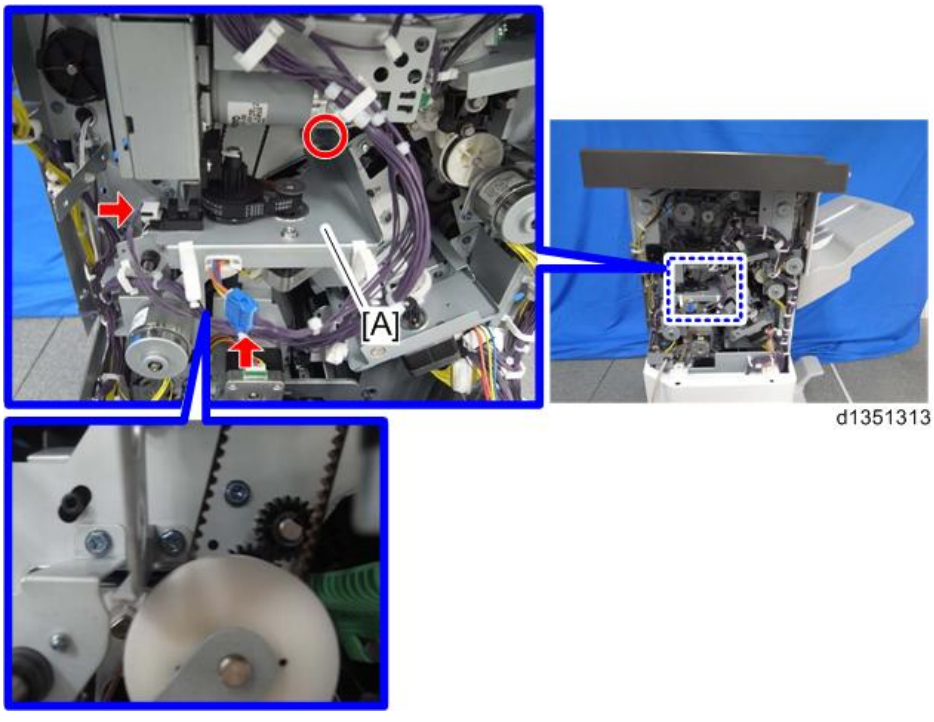
Note

- 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.

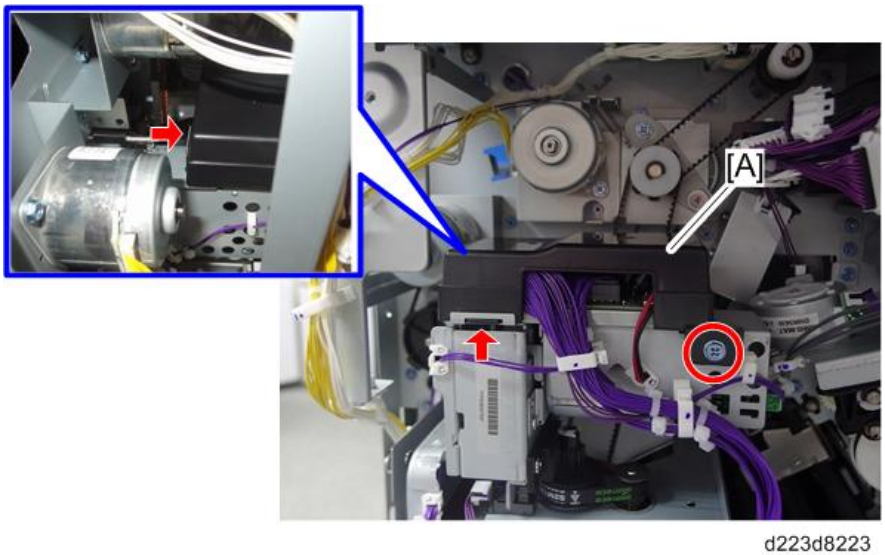
1. Remove the following covers.
   - Rear Upper Cover (page 9)
   - Rear Lower Cover (page 9)
2. Remove the side-to-side detection unit [A] (x 2, x 3, x 2).



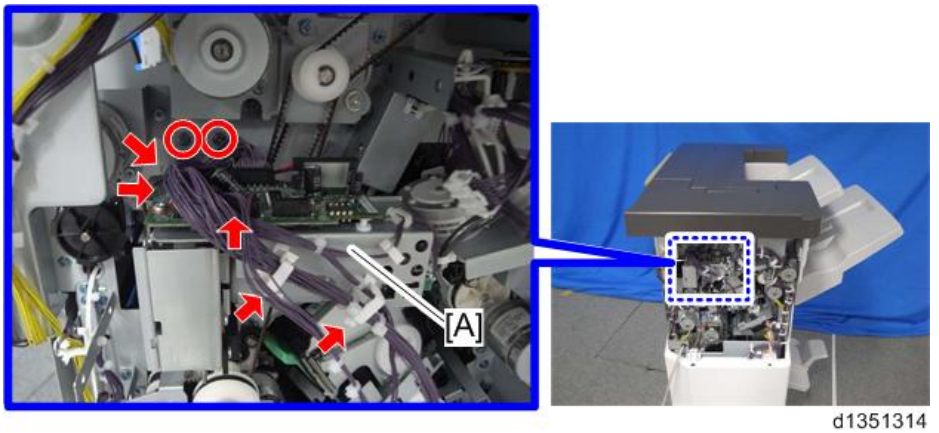
3. Stepper motor bracket [A] (x 1, x 2)



4. Remove punch unit control board [A] (x1, x2).



5. Pull out the punch unit [A] (x 2, x 3, x 2).



d1351314

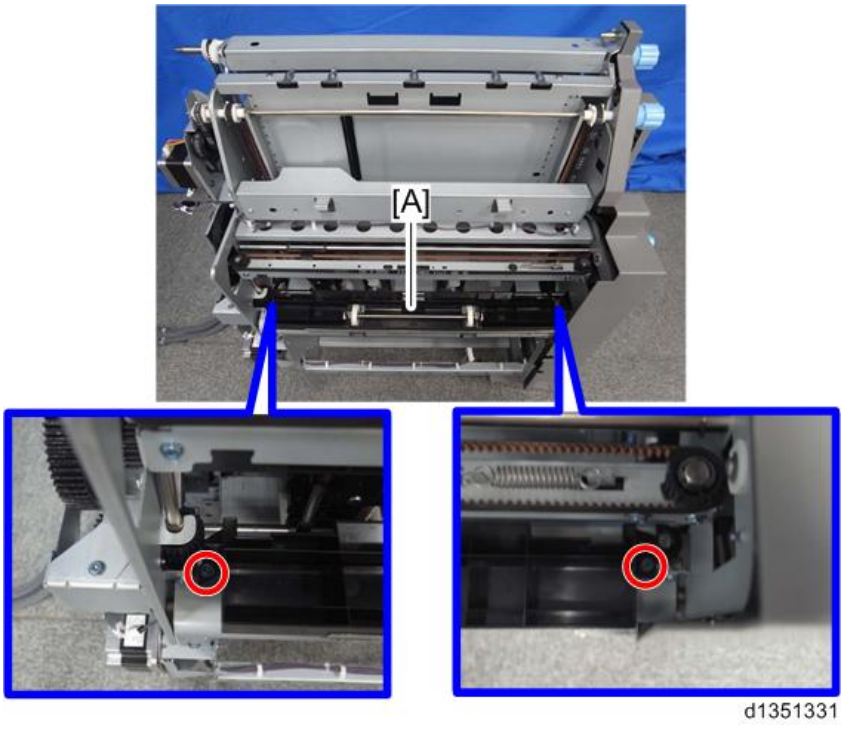
d1351315

Fold Adjustments

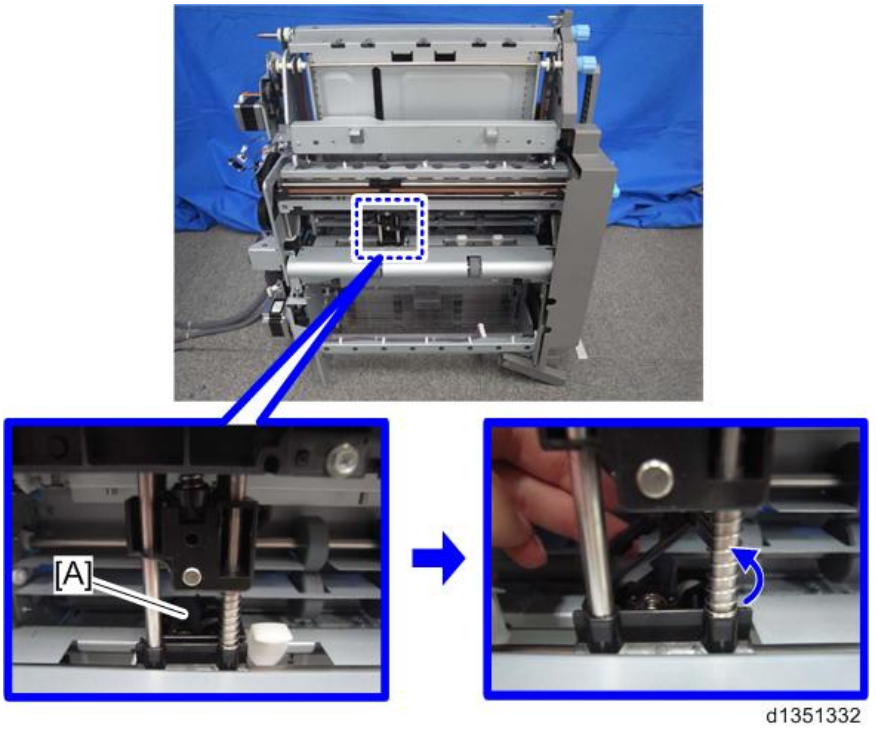
Adjusting the Alignment of the Flat Fold Rollers

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

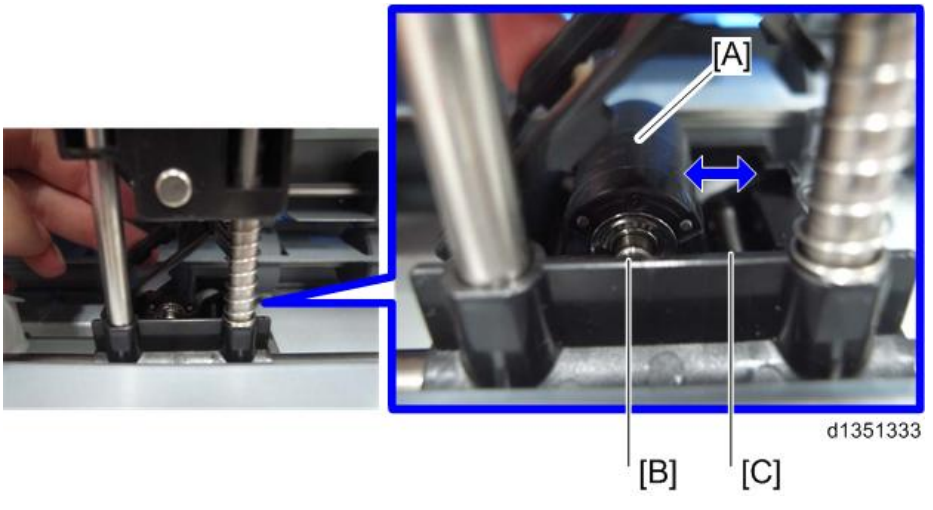
1. Booklet stapler unit (page 46)
2. Fold plate bracket [A] (x 2)

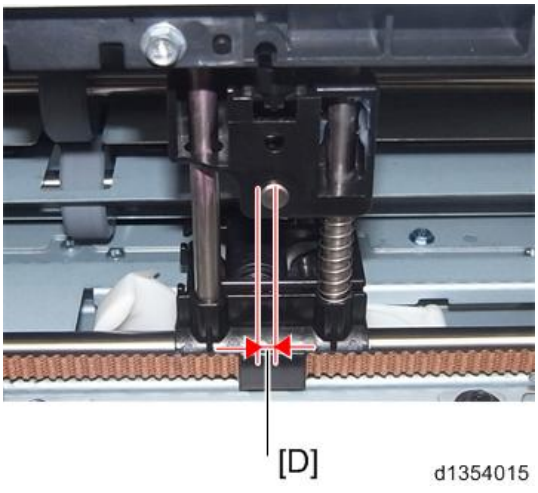


3. Open the bracket [A] of the flat fold roller.



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.





Note

- With the factory default, the upper and lower rollers of the flat fold booklet unit are not aligned vertically. There is a 3mm difference [D] between the upper and lower rollers. However, you can change the lower roller position from [B] (factory default) to [C]. If you change the lower roller position to [C], the difference becomes 0mm. In this condition, the upper and lower rollers are aligned vertically.
- If the toner does not stick well to the folding line of the booklet due to excessive folding strength, change the lower roller position to [C]. In this position, the booklet will be thicker than the factory default position.
- If you want increase the folding strength, the lower roller position should be [B] (factory default position). In addition, this will make the booklet thinner.
  If you want to reduce the folding strength, the lower roller position should be [C] (the difference in alignment is 0mm). In addition, this will make the booklet thicker.

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 **Note** • [0: Standard] is faster than [1: Middle].	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"x18"		
SP6-114-009	Fold Speed Adj.: 2K/3K FIN: 8K SEF		
SP6-114-010	Fold Speed Adj.: 2K/3K FIN: Other		

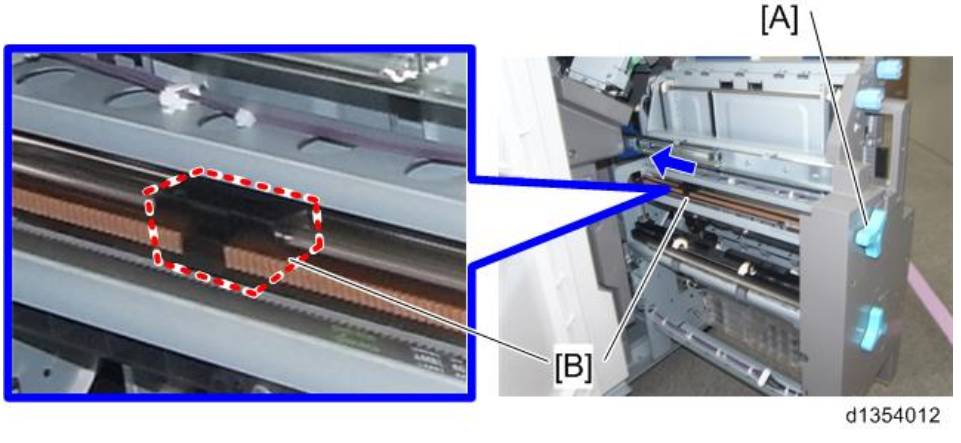
3. Exit the SP mode.

Flat Fold Booklet Unit Home Position Adjustment

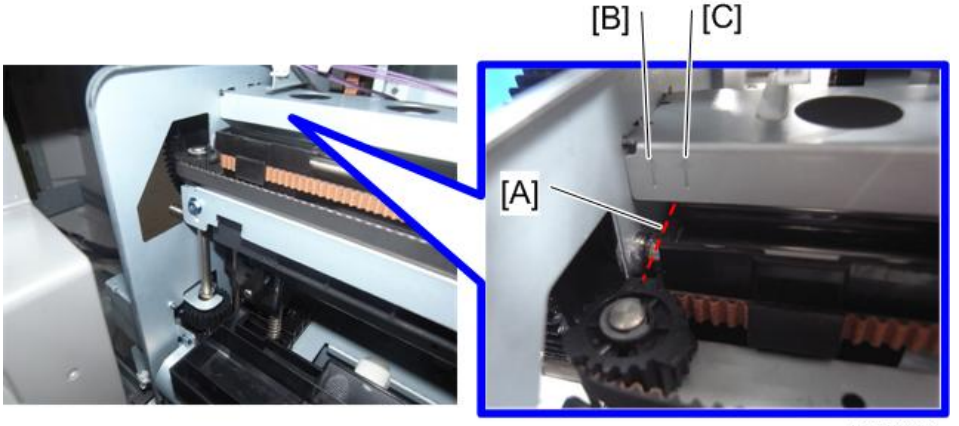
1. Pull out the stapling unit [A].

2. Timing gear [A] (x 1)

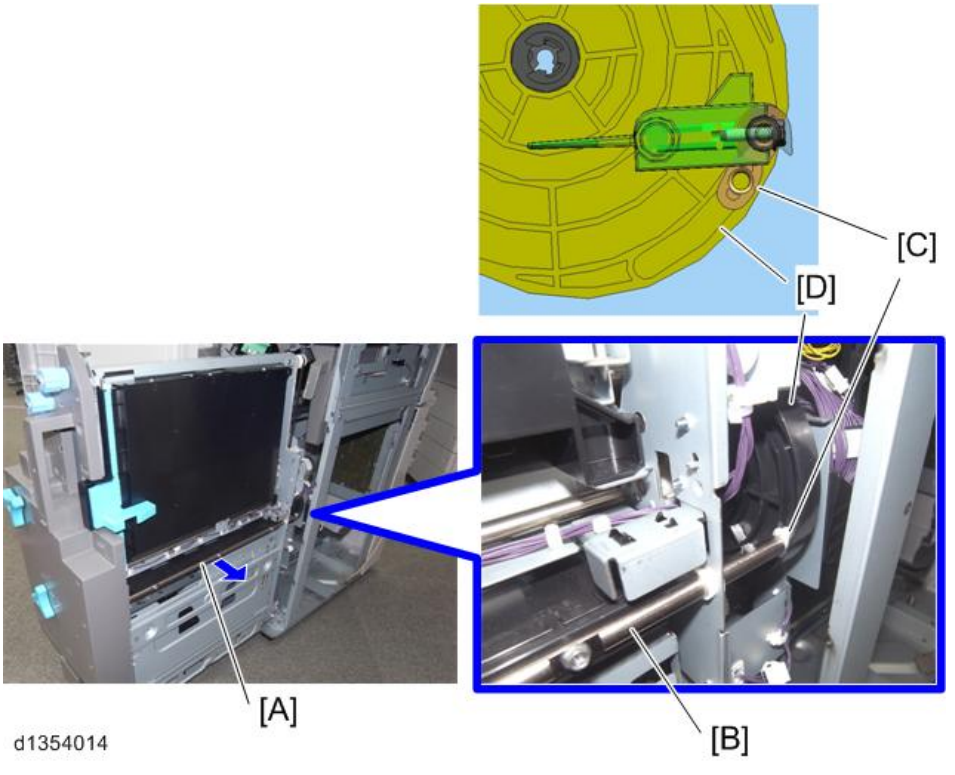
3. Turn the knob [A] clockwise to move the flat fold roller unit [B] in the direction of the arrow.



4. Move the flat fold roller unit until the edge of the unit [A] is between the guide lines [B] and [C] inscribed on the bracket.



5. Check that the fold plate [A] has been moved in the direction of the arrow as far as it can go and the bushing [C] on the rear end of the fold plate shaft [B] is aligned with the fold plate positioning cam [D].



6. Re-attach the timing gear [A] (☞ x 1).

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7. Reassemble the finisher and connect it to the copier.
8. Turn on the copier.
9. After the finisher initialization is complete, check that the flat fold roller unit, fold plate and the cam are positioned as described in steps 4 and 5.

Paper Guide

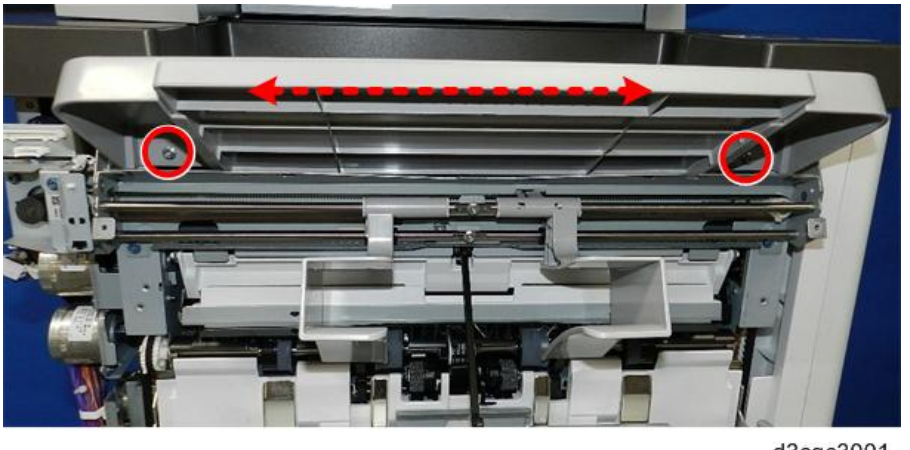
1

Paper Guide Unit

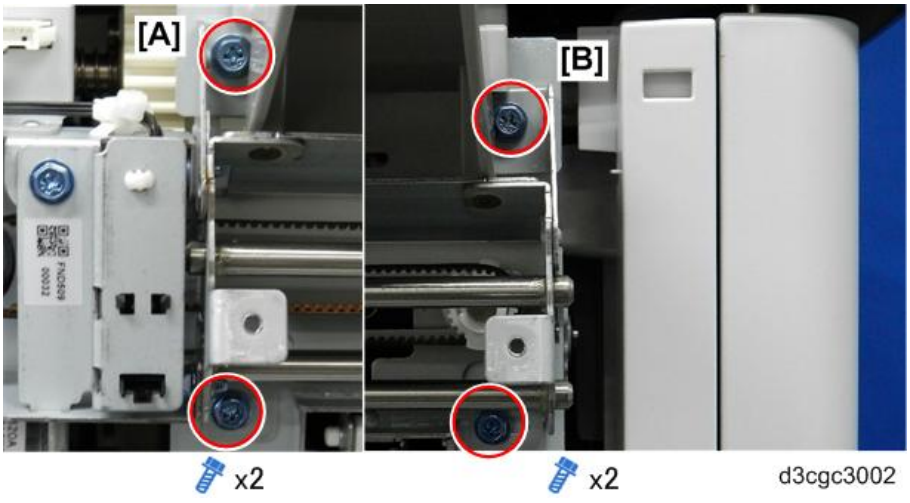
1. Remove the paper guide covers (page 12)
2. Disconnect the cover support bracket.

3. Remove the cover support bracket.

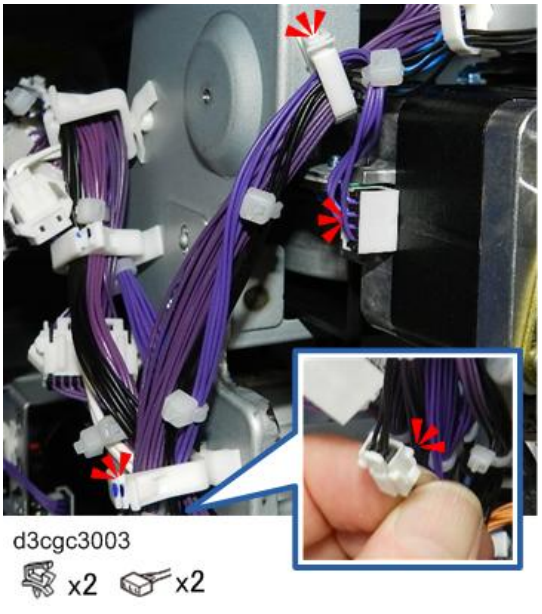
4. **Loosen** (do not remove) the screws on both ends of the paper exit. This will loosen the tray so you can move the tray slightly side-to-side in order to remove the bracket screws more easily.



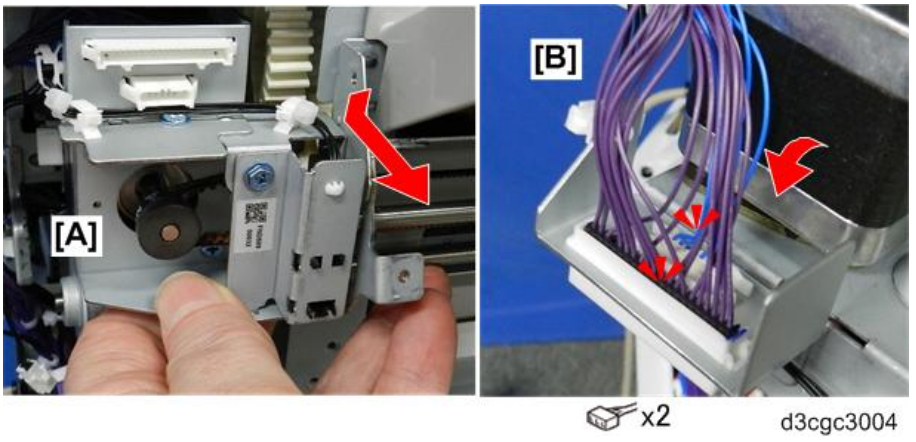
5. Disconnect the rear end of the paper guide unit bracket [A].
6. Disconnect the front end of the paper guide unit bracket [B].



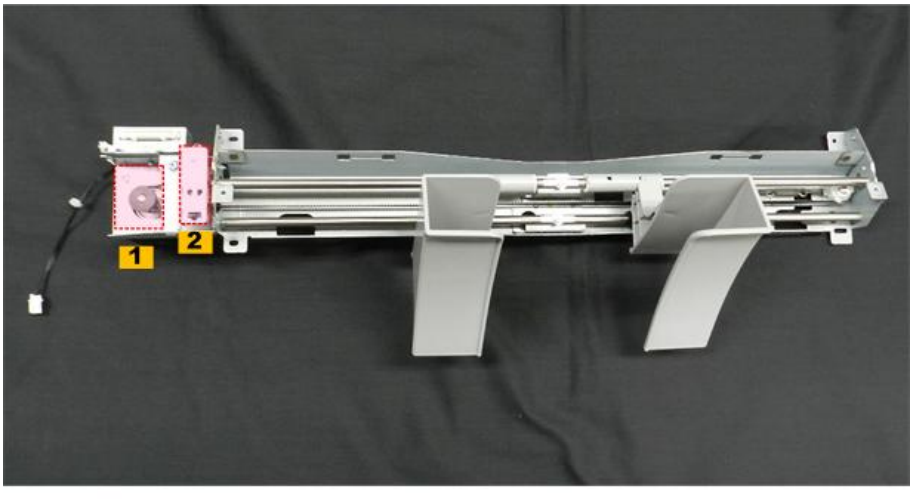
7. At the rear, open the clamps and disconnect the motor and sensor harnesses.



8. Hold the unit bracket with both hands, lower the rear end [A], roll it toward you slightly, and then disconnect the harnesses [B].



9. Lay the unit on flat clean surface so you can see the paper guide motor [1] and paper guide position sensor bracket [2].



2. Detailed Descriptions

Overview

Specifications

Finisher SR3230

Item		Specification
Upper tray	Paper Sizes	A3 SEF,A4 LEF/ SEF, A5 LEF/ SEF, A6 SEF, B4 SEF, B5 LEF/ SEF, B6 SEF, 11″×17″ SEF, $8^1/_2$″×14″ SEF, $8^1/_2$″×11″ LEF/ SEF, 8″ ×13″ SEF, $7^1/_4$″×$10^1/_2$″ LEF/ SEF, $5^1/_2$″ ×$8^1/_2$″ LEF/ SEF, Postal Postcard SEF, 12″ ×18″ SEF, 10″×15″ SEF, 10″×14″ SEF, 13″ ×$19^1/_5$″ SEF, 13″×19″ SEF, $12^3/_5$″×$19^1/_5$″ SEF, $12^3/_5$″×$18^1/_2$″ SEF, 13″×18″ SEF, SRA3 SEF, SRA4 LEF/ SEF, Custom Size(90x139.7 to 330.2x487.7 mm)
	Capacity (Normal Paper)	• A4, $8^1/_2$″×11″ or smaller: 250 sheets • B4, $8^1/_2$″×14″ or smaller: 50 sheets * Up to 80g/m^2, no folding
	Paper thickness	52.0 to 220.0 g/m^2
Shift tray	Paper Sizes	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, A6 SEF, B4 SEF, B5 LEF/ SEF, B6 SEF, 11″×17″ SEF, $8^1/_2$″×14″ SEF, $8^1/_2$″×11″ LEF/ SEF, 8″ ×13″ SEF, $7^1/_4$″×$10^1/_2$″ LEF/ SEF, $5^1/_2$″ ×$8^1/_2$″ LEF/ SEF, Postal Postcard SEF, 12″ ×18″ SEF, 10″×15″ SEF, 10″×14″ SEF, 13″ ×$19^1/_5$″ SEF, 13″×19″ SEF, $12^3/_5$″×$19^1/_5$″ SEF, $12^3/_5$″×$18^1/_2$″ SEF, 13″×18″ SEF, SRA3 SEF, SRA4 LEF/ SEF, Custom Size(90x139.7 to 330.2x4 87.7mm)

Item		Specification
Shift tray	Capacity (Normal Paper)	• A4 LEF, $8^1/_2$"×11" LEF: 3,000 sheets • A3 SEF, A4 SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$" ×11" SEF, 12"×18", SRA3 SEF, 13" ×$19^1/_5$" SEF: 1,500 sheets • A5 LEF: 500 sheets • A5 SEF, A6 SEF, B6 SEF, $5^1/_2$"×$8^1/_2$" SEF: 100 sheets * Up to 80g/m^2, no folding
Shift tray	Paper thickness	52.3 to 300.0g/m^2
	Paper size for shift operation	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$" ×$10^1/_2$" LEF/ SEF, $5^1/_2$"×$8^1/_2$" LEF/ SEF, 12"×18" SEF, 10"×15" SEF, 10"×14" SEF, SRA4 SEF, Custom Sizes(125x139.7 to 304.8x457.2 mm)
	Paper thickness for shift operation	52.3 to 300.0g/m^2
Staple Tray	Paper sizes	A3 SEF, A4 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$"×$10^1/_2$" LEF/ SEF, 10"×15" SEF, 10"×14" SEF, Custom Sizes

Item		Specification
Staple Tray	Staple stack size (Normal Paper)	• A3 SEF, A4 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11″×17″ SEF, $8^1/_2$″×14″ SEF, $8^1/_2$″×11″ LEF/ SEF, 8″×13″ SEF, $7^1/_4$″×$10^1/_2$″ LEF/ SEF, 10″×15″ SEF, 10″×14″ SEF, $8^1/_2$″×13″ SEF, $8^1/_4$″×14″ SEF, $8^1/_4$″×13″ SEF, 8K SEF, 11″×14″ SEF, 11″×15″ SEF: 65 sheets • Mixed sizes: 65 sheets(A3 SEF/A4 LEF, B4 SEF/B5 LEF, 11″×17″ SEF/$8^1/_2$×11 LEF) * Up to 80g/ m^2, no folding • Z-folding 5 sheets (80 – 105 g/m^2) • 8 sheets (52 – 80 g/m^2) • Z-folding yes/no • When Z-folded paper and other paper are mixed, 1 sheet without Z-folding (52 to 80 g/m^2), 13 sheets (80 to 105 g/m^2) is upper limit
Staple Tray	Tray capacity after stapling (Normal Paper)	• A4 LEF, $8^1/_2$″×11″ LEF: 20 to 65 stapled sheets, 150 to 46 sets, 2 to 19 sheets 150 sets • A4 SEF, B5 SEF/ LEF, $8^1/_2$×11 SEF: 15 to 65 stapled sheets,100 to 23set, 2 to 14 sheets 100 sets • Other paper sizes: 15 to 65 stapled sheets 100 to 23 sets, 2 to 14 stapled sheets 100 sets • Mixed sizes: 65 sheets 23 sets (A3 SEF/A4 LEF, B4 SEF/B5 LEF, 11″×17″ SEF, $8^1/_2$×11 LEF) * Up to 80g/m^2, no folding
	Staple paper thickness	52.3 to 105.0 g/m^2 * A4 LT cover sheets (up to 256g/ m^2)1 to 2 mixed bundles possible

Item		Specification
	Stapling positions	Rear, front, rear oblique, left edge (x2), top edge (x2)
Punch specifications	Paper size	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$" ×$10^1/_2$" LEF/ SEF, $5^1/_2$"×$8^1/_2$" LEF/ SEF, 10"×15" SEF, 10"×14" SEF, Custom Sizes
	Punch paper thickness	52.3 to 256.0g/m^2
	Punch position	2 holes
Max. power consumption		67 W (supplied from main machine)
Dimensions (w x d x h)		657×730×980 mm (26 x 29 x 39 in.)
Weight		Approximately 41 kg (90 lb.)

Booklet Finisher SR3240

Item		Specification
Upper tray	Paper Sizes	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, A6 SEF, B4 SEF, B5 LEF/ SEF, B6 SEF, 11″×17″ SEF, $8^1/_2$″×14″ SEF, $8^1/_2$″×11″ LEF/ SEF, 8″×13″ SEF, $7^1/4$″×$10^1/_2$″ LEF/ SEF, $5^1/_2$″ ×$8^1/_2$″ LEF/ SEF, Postcards SEF, 12″×18″ SEF, 10″×15″ SEF, 10″ ×14″ SEF, 13″×$19^1/_5$″ SEF, 13″ ×19″ SEF, $12^3/_5$″×$19^1/_5$″ SEF, $12^3/_5$″×$18^1/_2$″ SEF, 13″×18″ SEF, SRA3 SEF, SRA4 LEF/ SEF, Custom Sizes(90x139.7 to 330.2x487.7 mm)
	Capacity (Normal Paper)	• A4, $8^1/_2$″×11″ or smaller: 250 sheets • B4, $8^1/_2$″×14″ and larger 50 sheets * Up to 80g/ m^2, no folding
	Paper thickness	52.3 to 220.0g/m^2

Item		Specification
Shift tray	Paper Sizes	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, A6 SEF, B4 SEF, B5 LEF/ SEF, B6 SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$"×$10^1/_2$" LEF/ SEF, $5^1/_2$" ×$8^1/_2$" LEF/ SEF, Postal Postcard SEF, 12"×18" SEF, 10"×15" SEF, 10"×14" SEF, 13"×$19^1/_5$" SEF, 13"×19" SEF, $12^3/_5$"×$19^1/_5$" SEF, $12^3/_5$"×$18^1/_2$" SEF, 13"×18" SEF, SRA3 SEF, SRA4 LEF/ SEF, Custom Size(90x139.7 to 330.2x4 87.7mm)
	Capacity (Normal Paper)	• A4 LEF, $8^1/_2$"×11" LEF: 2,000 sheets • A3 SEF, B4 SEF, A4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$" ×14" SEF, $8^1/_2$"×11" SEF, 12" ×18" SEF, SRA3 SEF, 13" ×$19^1/_5$" SEF: 1,000 sheets • A5 LEF: 500 sheets • A5 SEF, A6 SEF, $5^1/_2$"×$8^1/_2$" SEF, A6 SEF: 100 sheets * Up to 80g/m^2, no folding
	Paper thickness	52.0 to 300.0 g/m^2
	Paper size for shift operation	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$"×$10^1/_2$" LEF/ SEF, $5^1/_2$"×$8^1/_2$" LEF/ SEF, 12"×18" SEF, 10"×15" SEF, 10" ×14" SEF, SRA4 SEF, Custom Sizes(125x139.7 to 304.8x457.2 mm)
	Paper thickness for shift operation	52.0 to 300.0 g/m^2

Item		Specification
Corner stapling specifications	Paper sizes	A3 SEF, A4 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, 8"×13" SEF, $7^1/_4$"×$10^1/_2$" LEF/ SEF, 10" ×15" SEF, 10"×14" SEF, Custom Sizes
Corner stapling specifications	Staple stack size	• A3 SEF, A4 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" LEF/ SEF, $8^1/_2$"×13" SEF, $8^1/_4$"×14" SEF, $8^1/_4$"×13" SEF, 8"×13" SEF, 8K SEF, 11" ×15" SEF, 11"×14" SEF, 10" ×15" SEF, 10"×14" SEF, $7^1/_4$" ×$10^1/_2$" LEF/ SEF: 65 sheets • Mixed paper sizes 65 sheets(A3 SEF/A4 LEF, B4 SEF/B5 LEF, 11"×17" SEF/ $8^1/_2$"×11" LEF) * Up to 80g/m^2, no folding (Normal Paper) • Z-folding 5 sheets (80 - 105g/m^2) • 8 sheets (52 - 80g/m^2) When Z-folded paper and other paper are mixed, 1 sheet without Z-folding 8 sheets (52 to 80 g/m^2), 13 sheets (80 to 105 g/m^2) is upper limit

Item		Specification
Corner stapling specifications	Tray capacity after stapling (Normal Paper)	• A4 LEF, $8^1/_2$"×11" LEF: 13 to 65 stapled sheets, 150 to 30 sets, 2 to 12 sheets 150 sets • Other paper sizes: 10 to 65 stapled sheets 100 to 15 sets, 2 to 9 stapled sheets 100 sets • Mixed paper sizes Mixed sizes: 2 to 65 sheets 23 sets (A3 SEF/A4 LEF, B4 SEF/B5 LEF, 11"×17" SEF/ $8^1/_2$×11 LEF) * Up to 80g/m^2, no folding
	Staple paper thickness	52.3 to 105.0g/m^2 * A4 LT cover sheets (up to 256g/m^2)1 to 2 mixed bundles possible
	Stapling positions	Rear, front, rear oblique, left edge (x2), top edge (x2)

Item		Specification
Booklet stapling specifications	Booklet staple stack size	20 sheets (Normal Paper) * Less than 80g/m^2
	Booklet staple paper sizes	A3 SEF, A4 SEF, B4 SEF, B5 SEF, 11″×17″ SEF, 8$^1/_2$″×14″ SEF, 8$^1/_2$″×11″ SEF, 12″×18″ SEF, 11″×15″ SEF, 11″×14″ SEF, 10″×15″ SEF, 10″×14″ SEF, 13″×18″ SEF, SRA4 SEF, SRA3 SEF, Custom Sizes(W 182 to 330, L 257 to 457 However, Width range: 182, 207 to 225, 250 to 257, 279.4 to 306, 330 to 33, Length limit: B5 (257mm) or larger, up to 18 in.(457.2mm)
	Booklet output tray capacity	2 to 5 sheets, 30 booklets, 6 to 10 sheets: 15 booklets, 11 to 15 sheets 10 booklets, 16 to 20 sheets 6 booklets, approximately (These estimates may vary, depending on paper type.))
	Booklet staple paper thickness	64.0 to 105.0g/m^2 Cover sheets (less than 216 g/m^2), 1 booklet, 1 cover sheet
	Booklet staple position	2 staples, centered
	Booklet folding	Center
Punch specifications	Paper size	A3 SEF, A4 LEF/ SEF, A5 LEF/ SEF, B4 SEF, B5 LEF/ SEF, 11″×17″ SEF, 8$^1/_2$″×14″ SEF, 8$^1/_2$″×11″ LEF/ SEF, 8″×13″ SEF, 7$^1/_4$″×10$^1/_2$″ LEF/ SEF, 5$^1/_2$″×8$^1/_2$″ LEF/ SEF, 10″×15″ SEF, 10″×14″ SEF, Custom Sizes
	Punch paper thickness	52.3 to 256.0g/m^2
	Punch position	2 holes

Item		Specification
Fold specifications	Fold type	FM2: Equal Halves
	Half-fold paper sizes	A3 SEF, A4 SEF, B4 SEF, B5 SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" SEF, 12"×18" SEF, 11"×15" SEF, 11"×14" SEF, 10"×15" SEF, 10"×14" SEF, 13"×18" SEF, SRA4 SEF, SRA3 SEF
	Half-fold paper thickness	64.0 to 105.0 g/m^2 Cover sheets (less than 216 g/m^2), 1 booklet, 1 cover sheet
	Multi-sheet fold paper sizes	A3 SEF, A4 SEF, B4 SEF, B5 SEF, 11"×17" SEF, $8^1/_2$"×14" SEF, $8^1/_2$"×11" SEF, 12"×18" SEF, 11"×15" SEF, 11"×14" SEF, 10"×15" SEF, 10"×14" SEF, 13"×18" SEF, SRA4
	Multi-sheet fold paper thickness	64.0 to 105.0g/m^2
Max. power consumption		67 W (supplied from main machine: DC24V +10% -5%)
Dimensions (w x d x h)		657×730×980 mm (26 x 29 x 39 in.)
Weight		Approximately 61kg (90 lb.)

Paper Specifications

Size	Normal	Thin (52-59)	Norm 1 (60-74)	Norm 2 (75-81)	Med Thk (82-105)	Thk 1 (160-169)	Thk 2 (170-220)	Thk 3 (221-256)	Thk 4 (257-300)
A3 SEF	◎	◎	◎	◎	◎	●	●	△	▲
B4 SEF	◎	◎	◎	◎	◎	●	●	△	▲

Size	Normal	Thin (52-59)	Norm 1 (60-74)	Norm 2 (75-81)	Med Thk (82-105)	Thk 1 (160-169)	Thk 2 (170-220)	Thk 3 (221-256)	Thk 4 (257-300)
A4 SEF	◎	◎	◎	◎	◎	●	●	△	▲
A4 LEF	■	■	■	■	■	●	●	△	▲
B5 SEF	◎	◎	◎	◎	◎	●	●	△	▲
B5 LEF	■	■	■	■	■	●	●	△	▲
A5 SEF	●	●	●	●	●	●	●	△	▲
A5 LEF	●	●	●	●	●	●	●	△	▲
B6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲
A6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲
13″×19.2″ SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
12″×18″ SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
12.6″×17.7″ (SRA3) SEF	-	◇	◇	◇	◇	◇	◇	▲	▲
11″×17″ SEF	-	◎	◎	◎	◎	●	●	△	▲
8 1/2″×14″ SEF	-	◎	◎	◎	◎	●	●	△	▲
8 1/2″×11″ SEF	-	◎	◎	◎	◎	●	●	△	▲
$8^1/_2$″×11″ LEF	-	■	■	■	■	●	●	△	▲
$5^1/_2$″×$8^1/_2$″ SEF	-	●	●	●	●	●	●	△	▲
$5^1/_2$″×$8^1/_2$″ LEF	-	◇	◇	◇	◇	◇	◇	▲	▲

Here is the key for the symbols.

◎ Corner stapling, booklet stapling, paper shift, proof tray, punching possible

○ Booklet stapling, shift tray, proof tray

■ Corner stapling, shift tray, proof tray, punching possible

● Shift tray, proof tray, punching possible

△ Shift tray, punching possible

◇ Shift tray, proof tray possible

▲ Shift tray possible

x Cannot be used

- Incompatible

	Color	Translucent	Label SA	Postcard	Transparencies
A3 SEF	●	△	-	-	-
B4 SEF	●	△	△	-	-
A4 SEF	●	△	△	△	△
A4 LEF	◎	△	△	△	△
B5 SEF	●	△	-	-	△
B5 LEF	◎	△	-	-	△
A5 SEF	-	-	-	-	-
A5 LEF	-	-	-	-	-
B6 SEF	-	-	-	-	-
B6 LEF	-	-	-	-	-
12″×18″ SEF	●*1	-	-	-	-
11″×17″ SEF	●	△	-	-	-
8 1/2″×14″ SEF	●	△	-	-	-
8 1/2″×11″ SEF	●	△	-	-	-
$8\frac{1}{2}$″×11″ LEF	◎	△	-	-	-
$5\frac{1}{2}$″×$8\frac{1}{2}$″ SEF	-	-	-	-	-

	Color	Translucent	Label SA	Postcard	Transparencies
$5^1/_2$″×$8^1/_2$″ LEF	-	-	-	-	-

*1 No corner stapling

Here is the key for the symbols.

◎ Corner stapling, booklet stapling, paper shift, proof tray, punching possible

● Shift tray, proof tray, punching possible

○ Booklet stapling, shift tray, proof tray

△ Shift tray, punching possible

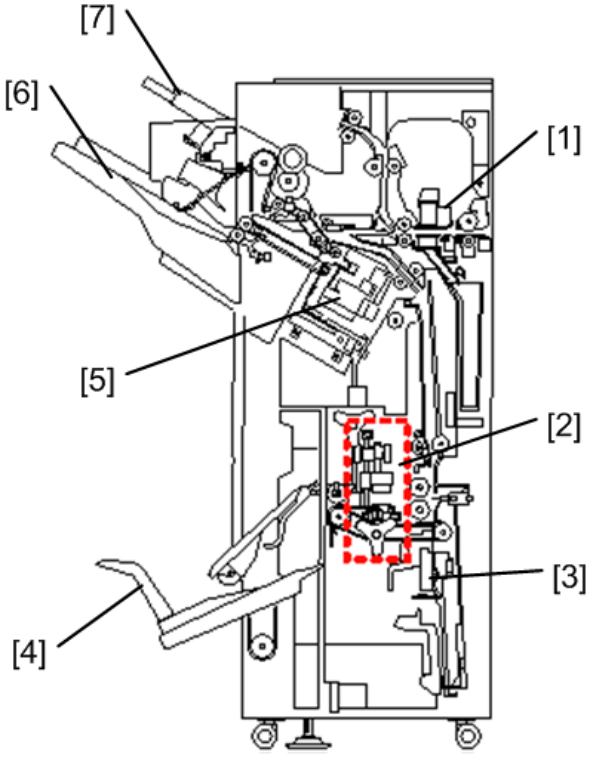
◇ Shift tray, proof tray possible

x Cannot be used

- Incompatible

Layout

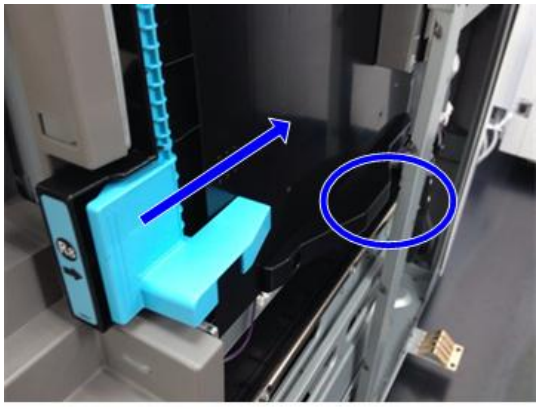
General Layout



No.	Name	No.	Name
1	Punch Units	5	Corner Stapler
2	Side-to-Side Fold Roller	6	Shift Tray
3	Booklet Stapler	7	Proof Tray
4	Booklet Staple Tray	-	-

Note

- The jam release lever R8 closes completely when the part shown below in the blue circle touches the frame while pushing the booklet stapler unit into the finisher.



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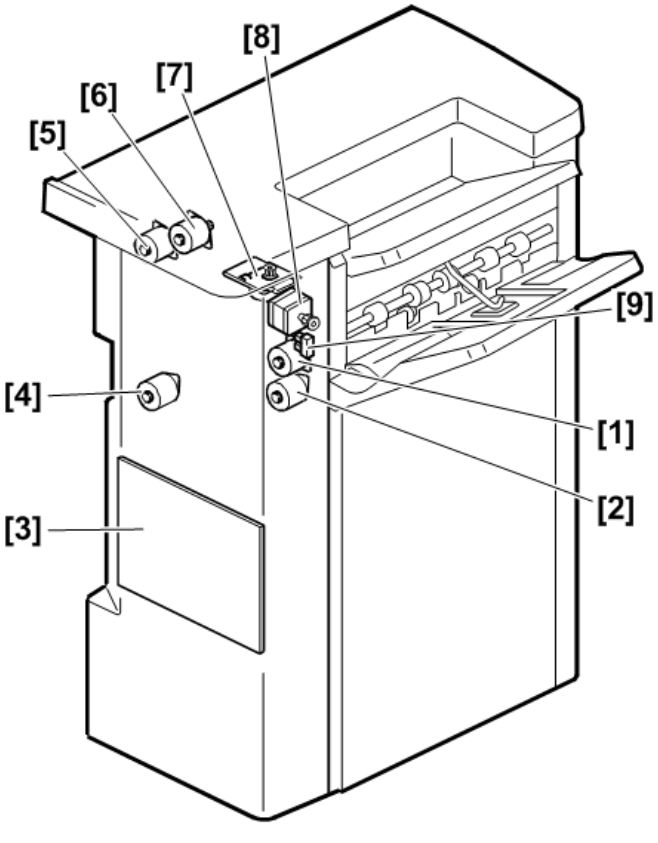
Electrical Component Layout



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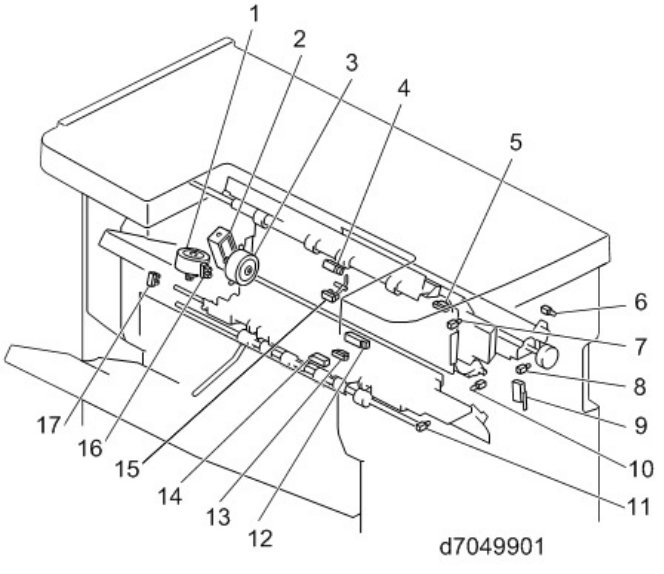
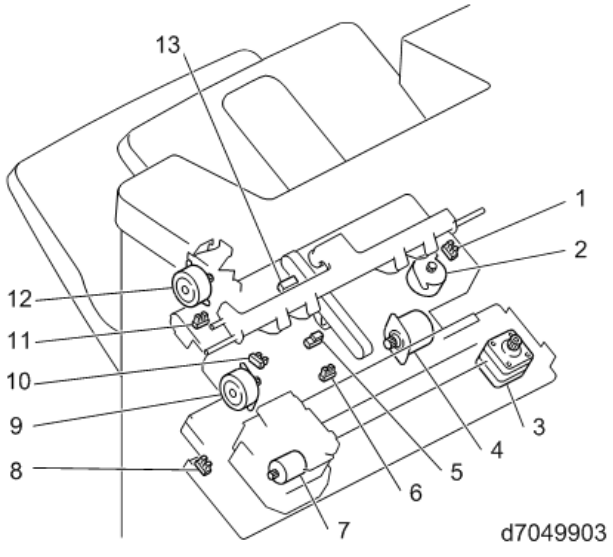
No.	Part
1	Exit Motor
2	Transport Motor
3	Main Control Board
4	Pre-stack Transport Motor
5	Entrance Transport Motor
6	Horizontal Transport Motor
7	Tray Lift Motor
8	Paper Guide Motor
9	Paper Guide HP Sensor

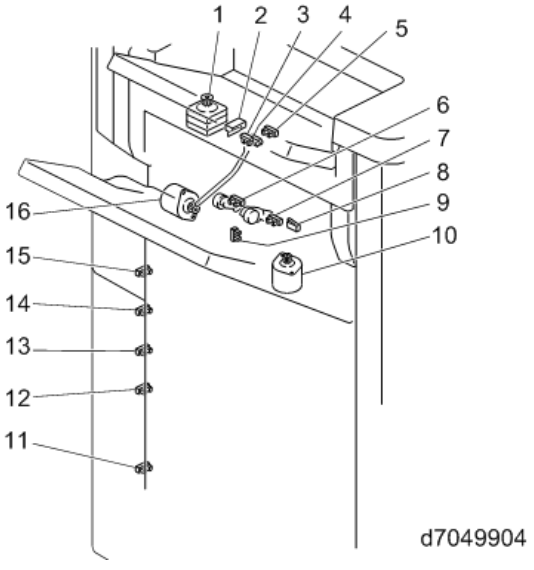


No.	Part	No.	Part
1	Shift Motor	10	LED 3
2	Upper Junction Gate Solenoid	11	LED 2
3	Lower Junction Gate Motor	12	Horizontal Transport Sensor
4	Proof Tray Full Sensor	13	Switchback Transport Sensor

No.	Part	No.	Part
5	Entrance Sensor	14	Transport Path Paper Sensor
6	LED 5	15	Proof Tray Exit Sensor
7	LED 1	16	Lower Junction Gate JP Sensor
8	LED 4	17	Shift Roller HP Sensor
9	Front Door Switch		

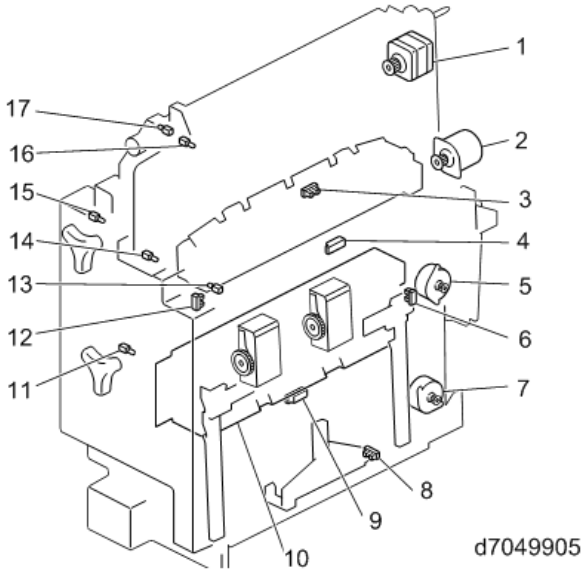


No.	Part	No.	Part
1	Jogger Fence HP Sensor	8	Stapler Move HP Sensor
2	Jogger Motor	9	Leading Edge Guide Motor
3	Corner Stapler Movement Motor	10	Leading Edge Guide HP Sensor
4	Feed-out belt motor	11	Positioning Roller HP Sensor
5	Staple Tray Paper Sensor	12	Positioning Roller Motor
6	Feed-out Belt HP Sensor	13	Shift Tray Exit Sensor
7	Corner Stapler Motor		

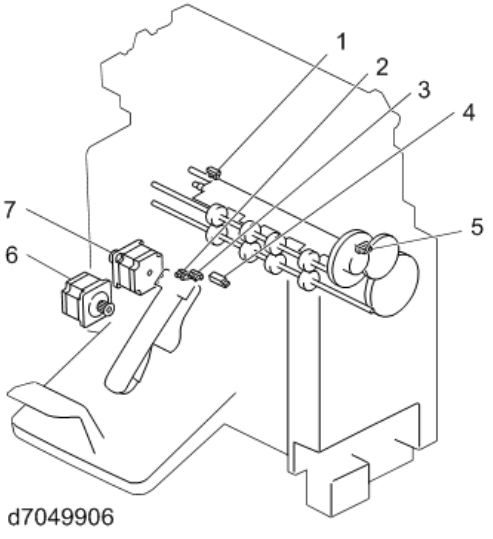


No.	Part	No.	Part
1	Paper Exit Guide Plate Motor	9	Return Roller HP Sensor
2	Paper Exit Guide Plate Limit Switch	10	Return Roller Motor
3	Booklet Stack Height Sensor 1	11	Shift Tray Lower Limit Sensor 5
4	Booklet Stack Height Sensor 2	12	Shift Tray Lower Limit Sensor 4
5	Exit Guide Plate HP Sensor	13	Shift Tray Lower Limit Sensor 3
6	Trailing Edge Press HP Sensor	14	Shift Tray Lower Limit Sensor 2
7	Shift Paper Height Sensor	15	Shift Tray Lower Limit Sensor 1
8	Upper Tray Height Limit Switch	16	Trailing Edge Press Motor

Booklet Finisher SR3240 Electrical Components

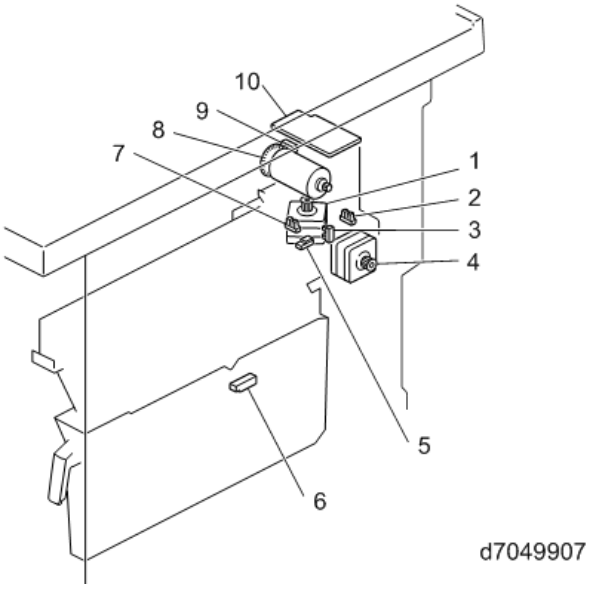


No.	Part	No.	Part
1	Booklet Jogging Pawl Movement Motor	10	Booklet Stapler Motor
2	Shift Roller drive Motor	11	Booklet LED 1
3	Booklet Jogging Pawl HP Sensor	12	Booklet Guide Plate Sensor
4	Booklet Upper Transport Path Stack Sensor	13	Booklet LED 2
5	Booklet Jogger Motor	14	Booklet LED 3
6	Booklet Jogging HP Sensor	15	Booklet LED 4
7	Booklet Bottom Fence Motor	16	Booklet LED 5
8	Booklet Trailing Edge Bottom Fence HP Sensor	17	Booklet LED 6
9	Booklet Lower Transport Path Stack Sensor		



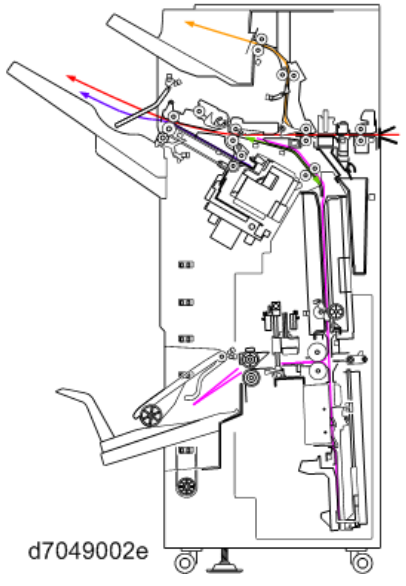
No.	Part
1	Fold Plate HP Sensor
2	Booklet Tray Full Sensor 2
3	Booklet Tray Full Sensor 1
4	Booklet Exit Sensor 1
5	Fold Plate Cam HP Sensor
6	Fold Transport Motor
7	Press Fold Motor

Punch Units



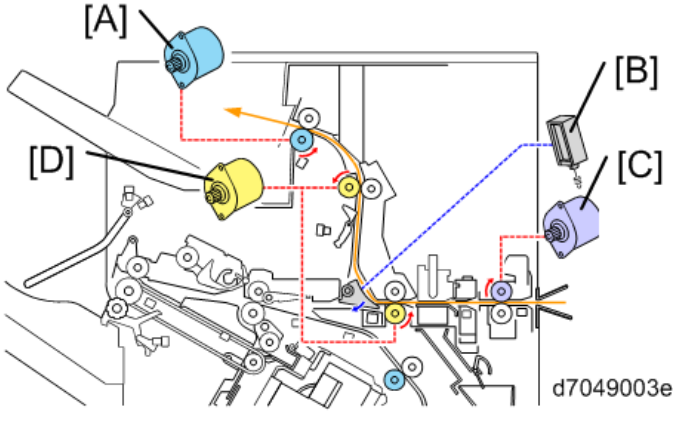
No.	Part
1	Punch Unit Movement Motor
2	Punch Unit HP Sensor
3	Punch Registration HP Sensor
4	Punch Registration Motor
5	Punch Registration Sensor
6	Punchout Hopper Full Sensor
7	Punch HP Sensor
8	Punch Drive Motor
9	Punch Motor Rotation Sensor
10	Punch Unit Control Board

Transport Layout



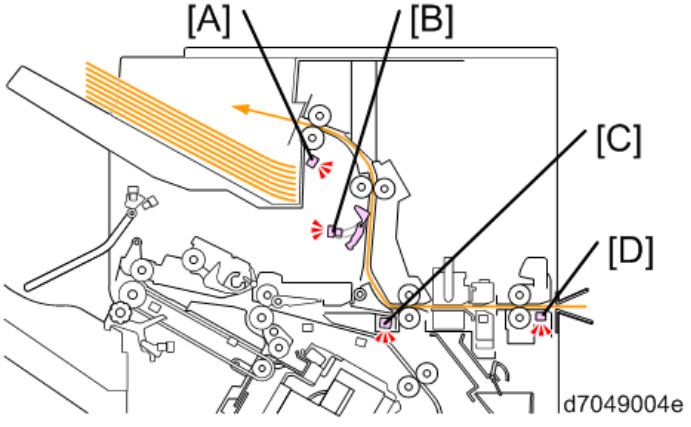
Red	Straight Through Path
Orange	Proof Path
Green	Pre-stack Path
Purple	Corner Staple Path
Pink	Booklet Staple Path

Proof Transport Layout (Drive)



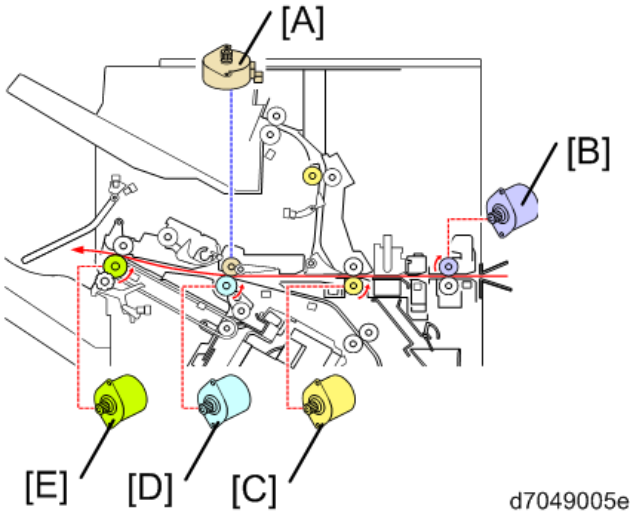
No.	Name	No.	Name
A	Proof Exit Motor	C	Entrance Transport Motor
B	Junction Gate Solenoid	D	Horizontal Transport Motor

Proof Transport Layout (Sensors)



No.	Name	No.	Name
A	Proof Tray Full Sensor	C	Horizontal Transport Sensor
B	Proof Exit Sensor	D	Entrance Sensor

Shift Transport Layout (Drive)

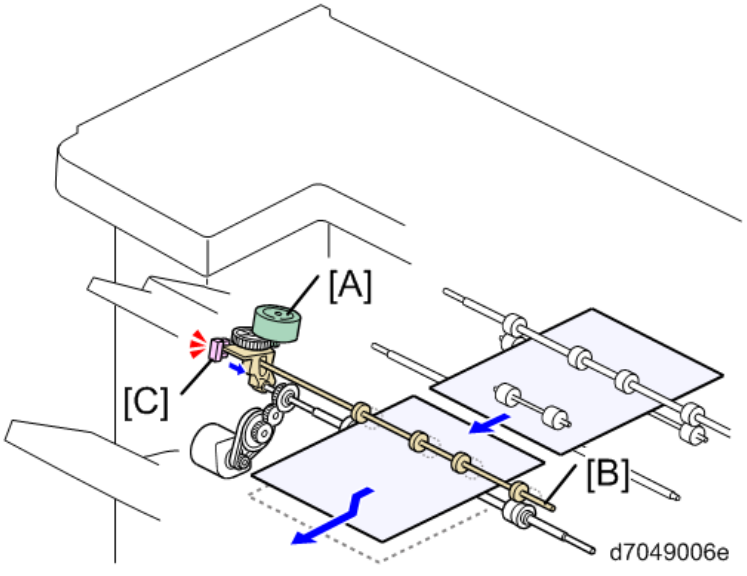


No.	Name	No.	Name
A	Shift Roller Motor (shift only)	D	Relay Transport Motor
B	Entrance Transport Motor	E	Upper Tray Exit Motor
C	Horizontal Transport Motor		

Operation Details

Shift Operation (Shift Transport)

To output paper, the shift roller motor [A] moves the shift roller [B] side-to-side while the shift roller is driven. The shift roller HP sensor [C] is used to control this mechanism.

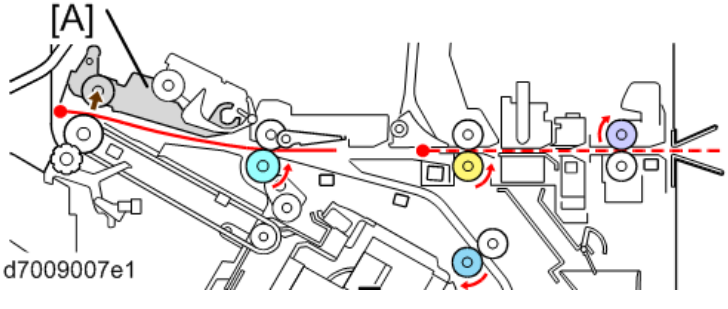


Pre-stack Operation (In Corner Stapling)

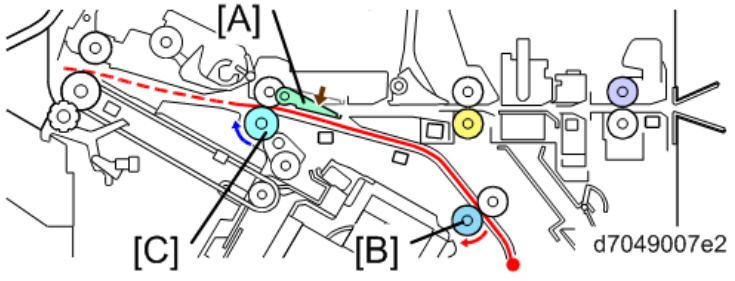
- **Pre-stack Capacity:** 1 sheet
- **Pre-stack Size:** A4 SEF/LEF, B5 SEF/LEF, LT SEF/LEF

There are four steps as follows:

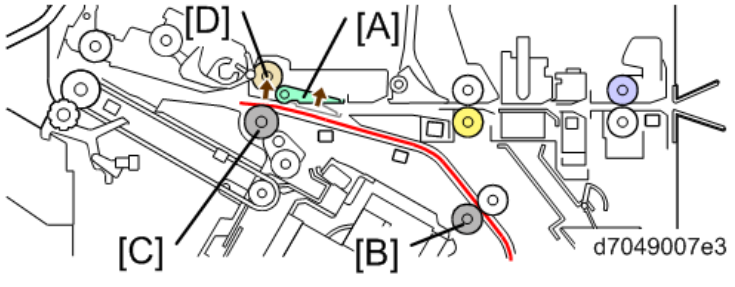
1. The upper tray exit guide plate [A] moves up (opens). Paper comes through the entrance transport path and reaches the relay transport path.



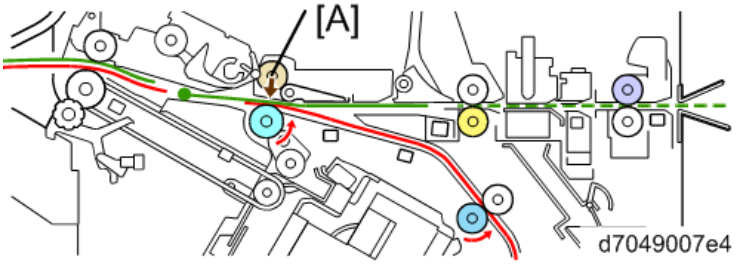
2. After paper passes the pre-stack junction gate [A], the pre-stack junction gate [A] moves down (closes) and the relay transport roller [C] rotates in reverse. The pre-stack roller [B] rotates to transport paper to the pre-stack position.



3. The rotation of the relay transport roller [C] and the pre-stack roller [B] stops, and the pre-stack junction gate [A] moves up (opens). The shift roller [D] also moves up to release the pressure between itself [D] and the relay transport roller [C].



4. The following sheet comes through the entrance and reaches the relay transport path. After that, the shift roller [A] drops to press the pre-stacked sheet and the following sheet. Then with the pre-stacked sheet, the following sheet goes to the next process (corner stapling).

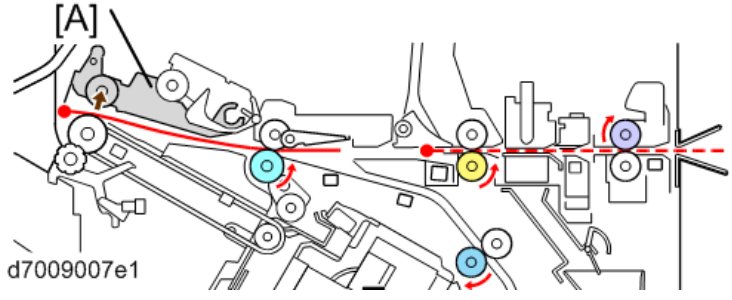


Pre-stack Operation (Booklet Stapling)

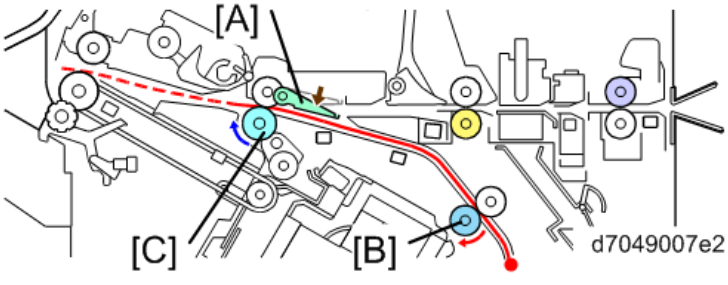
- **Pre-stack Capacity:** 2 sheets
- **Pre-stack Size:** All Sizes

There are five steps as follows:

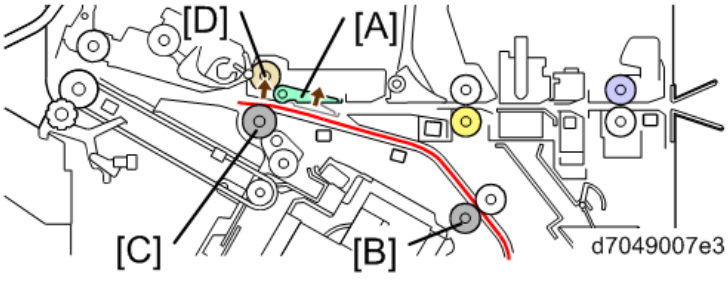
1. The upper tray exit guide plate [A] moves up (opens). Paper comes through the entrance transport and reaches the relay transport path.



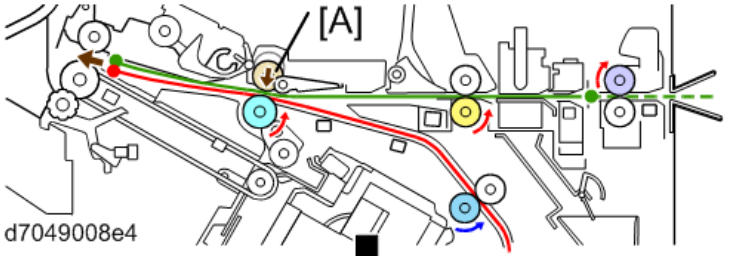
2. The pre-stack junction gate [A] drops (closes) and the relay transport roller [C] rotates in reverse. The pre-stack roller [B] rotates to transport paper to the pre-stack position.



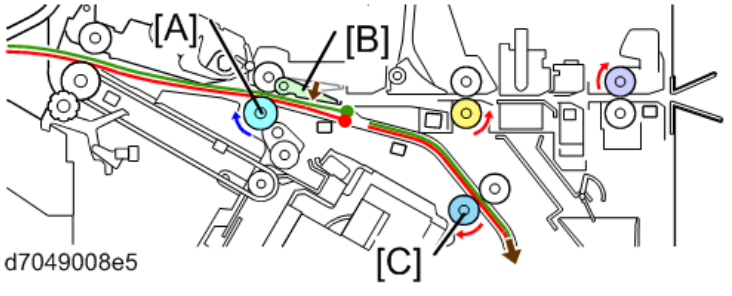
3. The rotation of the relay transport roller [C] and the pre-stack roller [B] stops, and the pre-stack junction gate [A] moves up (opens). The shift roller [D] moves up to release the pressure between itself [D] and the relay transport roller [C].



4. The following sheet comes thorough the entrance and reaches the relay transport path. After that, the shift roller [A] drops to press the pre-stacked sheet and the following sheet. With the pre-stacked sheet, the following sheet goes toward the exit (does not pass through completely).



5. The pre-stack junction gate [B] drops (closes) again, and the relay transport roller [A] rotates in reverse and the pre-stack roller [C] rotates to send two sheets paper (pre-stacked sheet and the following sheet) to the booklet stapling path.



Upper Tray Shift Drive / Limit Sensor / Full Sensor

Upper Tray Shift Up/down

The upper tray lift motor [A] moves the upper tray up/down.

Upper-position Detection

With the actuator, the limit sensor [B] detects the upper position of the tray (without output paper). To prevent too much moving upward, the forced stop switch (interlock switch) [C] is installed. When the upper tray moves up to the upper position but doesn't stop, the forced stop switch is pushed and the tray shift motor [A] stops.

Upper Tray Full Detection

Condition 1

Five tray full sensors [D] are installed on the rear side of the machine.

SR3240: Three sensors to detect 500, 1000, 2000 sheets

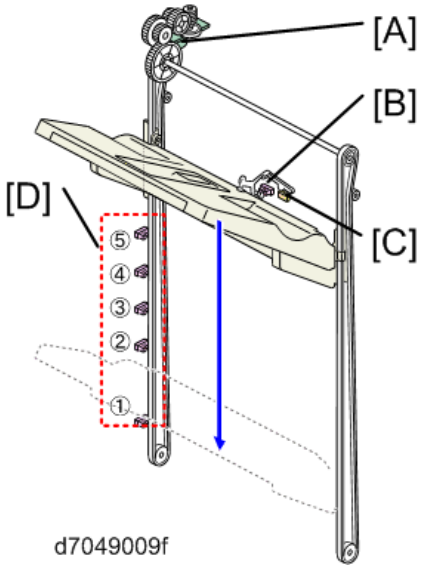
SR3230: Three sensors to detect 500, 1500, 3000 sheets

Booklet Finisher SR3240

State	Sensors	Paper Size	Length
500 sheets	Shift Tray Lower Limit Sensor 5	A5 SEF,A5 LEF, B6 SEF,HLT LEF, A6 SEF	148 to 182 mm
1,000 sheets	Shift Tray Lower Limit Sensor 4	A3 .SEF, A4. SEF, B4 SEF, B5 SEF, B5 LEF, DLT SEF, LG, SEF, LT SEF, 12"x18" SEF, SRA3,13"x19.2" SEF	182 to 488 mm
2,000 sheets	Shift Tray Lower Limit Sensor 2	A4 LEF, LT LEF	

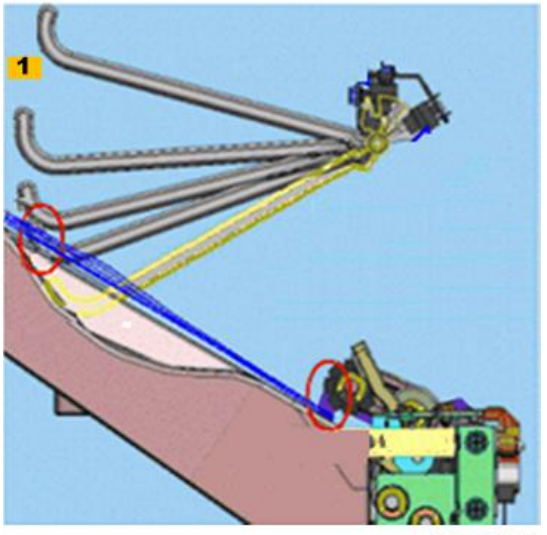
Finisher SR3230

State	Sensors	Paper Size	Length
500 sheets	Shift Tray Lower Limit Sensor 5	A5 SEF, A5 LEF, B6 SEF, HLT SEF, A6 SEF	148 to 182 mm
1,500 sheets	Shift Tray Lower Limit Sensor 3	A3 SEF, A4 SEF, B4 SEF, B5 SEF, B5 LEF, DLT SEF, LG SEF, LT SEF, 12"x18" SEF, SRA3 SEF, 13"x19.2" SEF	182 to 488 mm
3,000 sheets	Shift Tray Lower Limit Sensor 1	A4 LEF, LT LEF	



Condition 2

When the feeler rises as far as "1", and remains there for 13 sec., the tray is detected full. The purpose is to accurately detect tray full for stacks of Z-folded paper, or incorrectly stacked documents.



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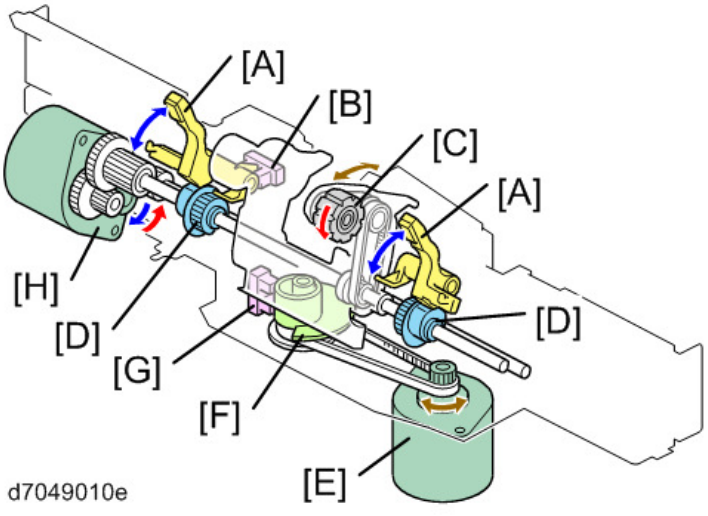
Condition 3

Shift tray detection input check: SP6123-35 normally set to "0" (default), tray not full.

Pull-in Roller / Paper Stack Holder

Components

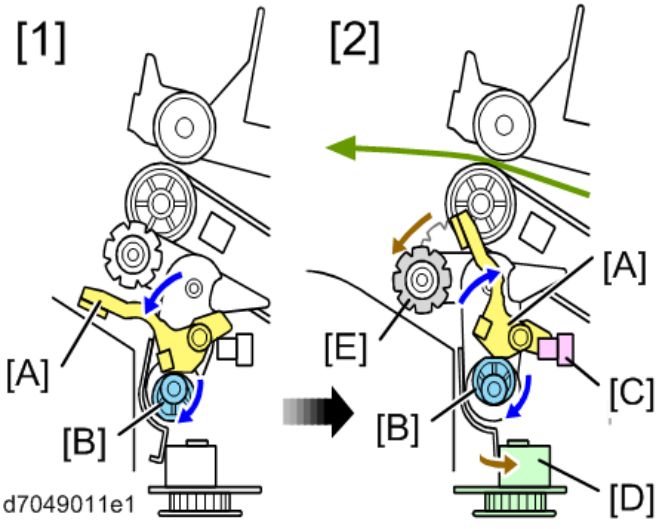


No.	Name	No.	Name
A	Paper Stacking Holder	E	Stacking Sponge Roller Fluctuation Motor
B	Holder HP Sensor	F	Stacking Sponge Roller Cam
C	Stacking Sponge Roller	G	Stacking Sponge Roller HP Sensor
D	Paper Stacking Holder Cam	H	Paper Stacking Holder Motor

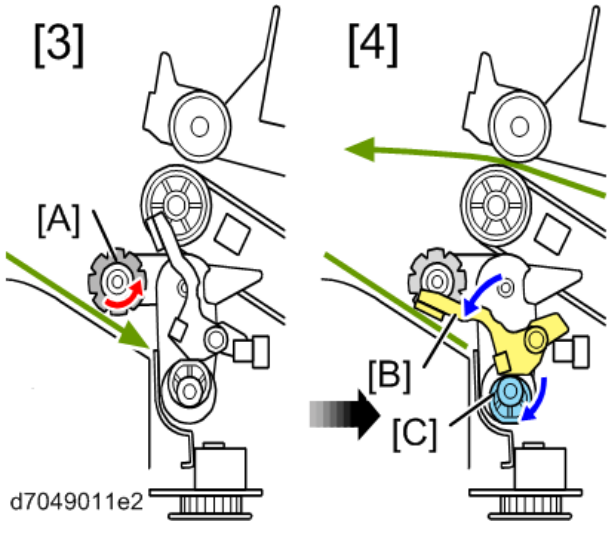
Operation

There are five steps in the operation:

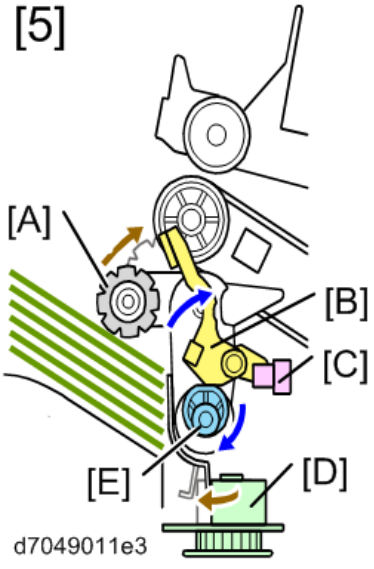
1. When a job starts, the paper stacking holder motor rotates the paper stacking holder cam [B] to move the paper stacking holder [A] down.
2. The stacking sponge roller fluctuation motor rotates the stacking sponge roller cam [D] to move the stacking sponge roller [E] down. The paper stacking holder motor rotates the paper stacking holder cam [B] to lift the paper stacking holder [A] up to its HP (until the paper stacking holder interrupts the paper stacking holder HP sensor [C]).



3. The paper stacking holder motor drives in reverse to let the stacking sponge roller [A] pull the output paper in.
4. The paper stacking holder motor rotates the paper stacking holder cam [C] to drop the paper stacking holder [B] (until job end, the machine repeats step 3 and step 4).

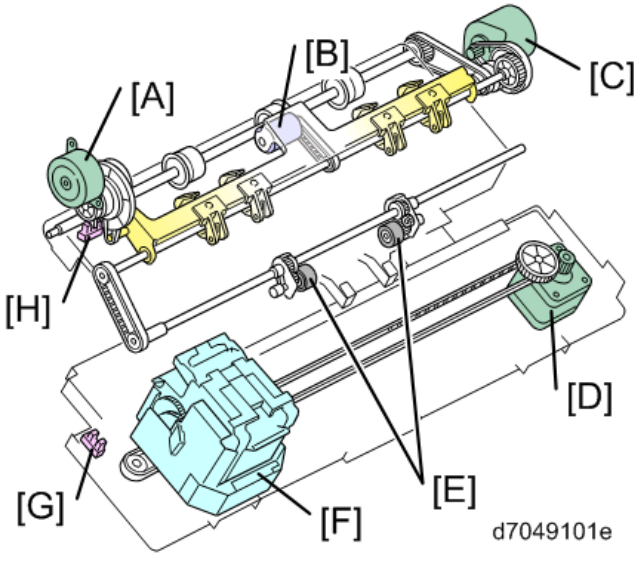


5. After job end, the stacking sponge fluctuation motor rotates the stacking sponge roller cam [D] to lift the stacking sponge roller [A] up to its HP position. At the same time, the paper stacking holder motor rotates the holder cam [E] to lift the paper stacking holder [B] up to its HP (until the paper stacking holder HP sensor [C] detects the end of the paper stacking holder [B]).



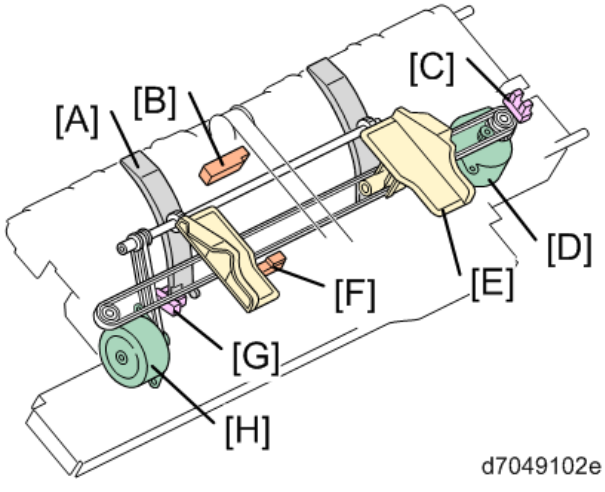
Corner Stapling

Components

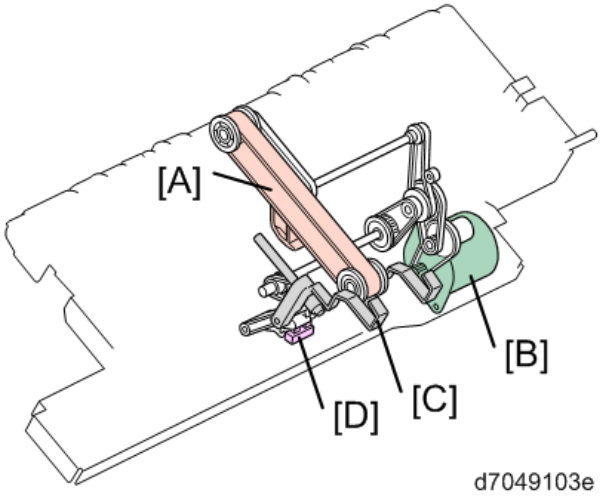


No.	Name	No.	Name
A	Positioning Roller Lift Motor	E	Drag Roller

No.	Name	No.	Name
B	Positioning Roller	F	Stapler
C	Exit Motor	G	Stapler HP Sensor
D	Stapler Movement Motor	H	Positioning Roller HP Sensor



No.	Name	No.	Name
A	Edge Guide	E	Jogger Fence
B	Upper Tray Exit Sensor	F	Staple Tray Paper Sensor
C	Jogger HP sensor	G	Edge Guide HP Sensor
D	Jogger Motor	H	Edge Guide Motor

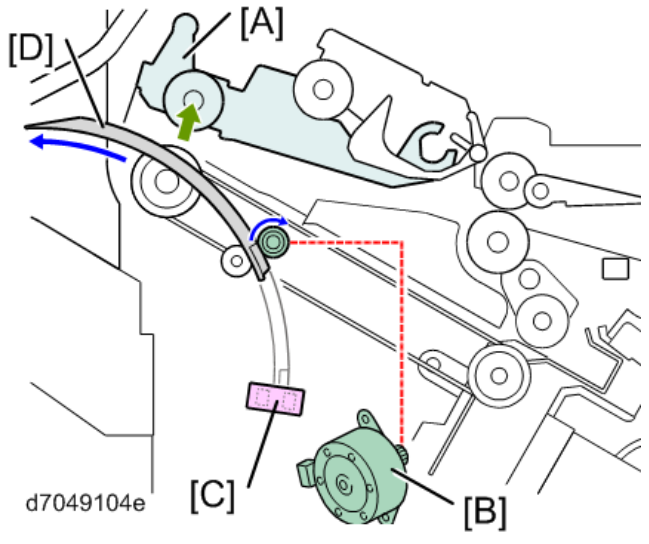


No.	Name	No.	Name
A	Stack Feed-out Belt (with stack feed-out pawl)	C	Trailing Edge Fence
B	Stack Feed-out Motor	D	Stack Feed-out Pawl HP

Edge Guide

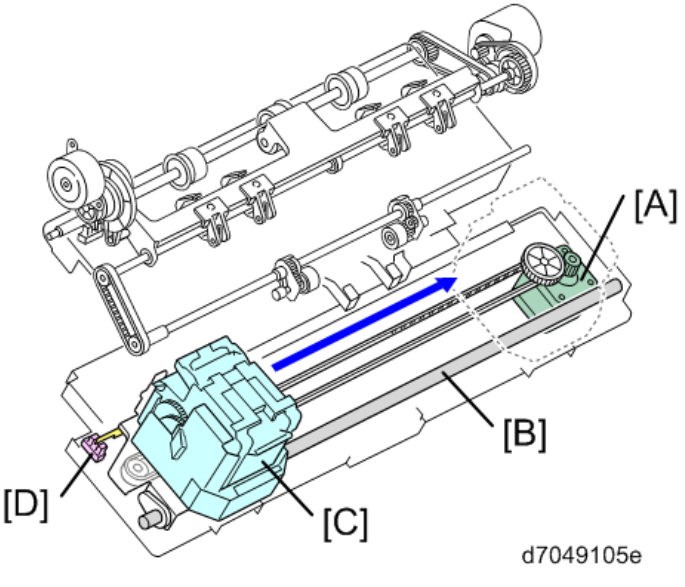
This machine applies a corner staple to the paper stack while it is hanging out of the exit. At this time, to prevent the paper stack from dropping to the upper tray, the edge guide [D] comes out of the unit. The edge guide operates as follows:

1. When a job starts, the upper tray guide plate [A] shifts up.
2. The edge guide motor [B] drives to push the edge guide [D] out. The edge guide retreats into the machine when the last sheet of a job is output (the edge guide HP sensor [C] detects the edge guide).



Stapler Movement

The stapler movement motor [A] moves the stapler [C] along the guide rod [B]. After a job finishes, the stapler [C] returns to its HP (the stapler HP sensor [D] detects the base of the stapler).

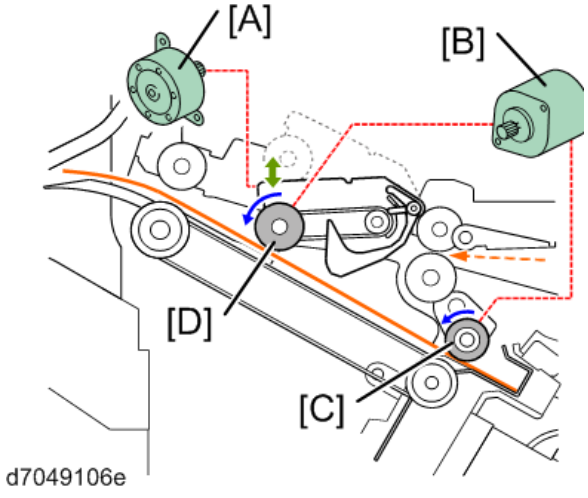


Positioning Roller / Drag Roller

The positioning roller and drag roller operate as follows:

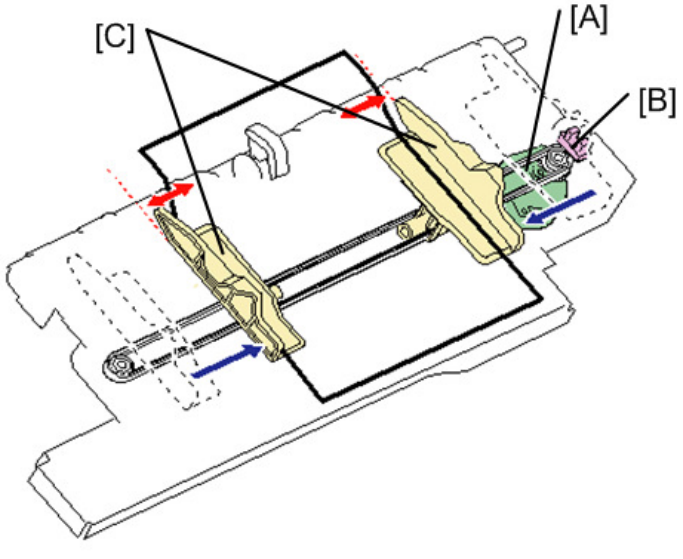
1. The positioning roller shift motor [A] moves the positioning roller [D] down at the start of every job.

2. The positioning roller motor [B] rotates the positioning roller [D] to transport paper to the staple tray.
3. The positioning roller motor [B] also rotates the drag roller [C]. The drag roller [C] is a sponge roller that pushes paper against the trailing edge fence, in order to hold paper in the stapling position.



Jogger

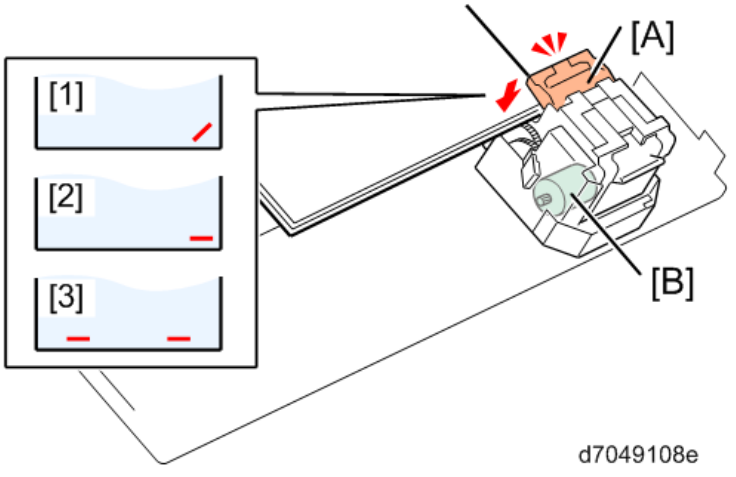
The jogger motor [A] moves the jogger fences [C] to the ready position and wait for the first sheet. As each sheet enters, the jogger fences push toward the center. At the end of the job, the jogger fences return to their HP and stop. The jogger fence HP sensor [B] detects the jogger fence at the home position.



Stapling

The staple hammer motor [B] pushes the staple hammer [A] down in order to staple the paper stack. The stapling positions are as follows:

- **For oblique stapling:** [1]
- **For horizontal stapling:** [2]
- **For horizontal stapling at 2 points**: [3]



Feeding-out

The trailing edge fence [B] moves paper up to the proper position to output. Then the stack feed-out pawl [A] that is attached to the stack feed-out belt [C] pushes the paper out. The stack feed-out motor [D] moves the stack feed-out pawl [A] and the trailing edge fence [B]. After a stack is output, both the trailing edge fence [B] and stack feed-out pawl [A] return to their HP.

There are two types of stack output.

- 1. Pawl, exit roller: Small sizes (A4, LT, B4 SEF)

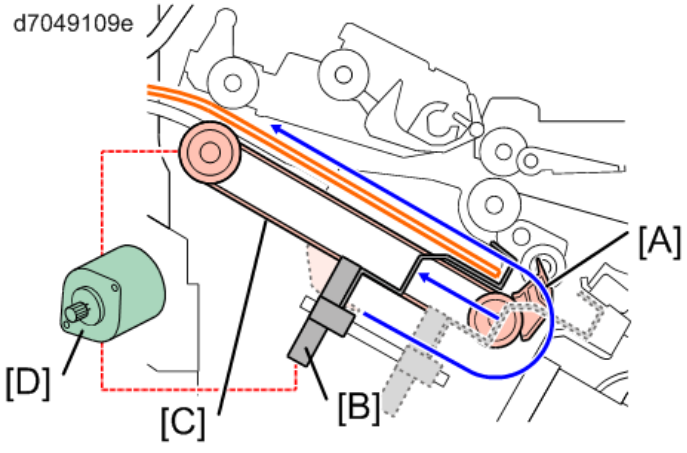
  Output is done by the exit roller as described above.

- 2. Roller exit: A4, LT, B5 LEF

  Only the exit roller is used to output the stack, without using the trailing edge fence and the stack feed-out pawl.

For Large Sizes (A3, B4, LG, DLT)

- 1 to 10 sheets: Roller exit method
- More than 11 sheets: Pawl, exit roller method



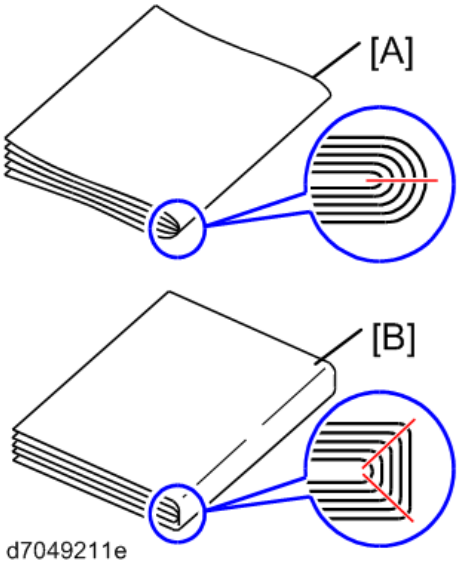
Saddle Stitching (Booklet Stapling)

A New Type of Saddle Stitching

Compared to normal center stapling, center stapling with this finisher can reduce the bulge at the center of the booklet.

[A] Common saddle stitching

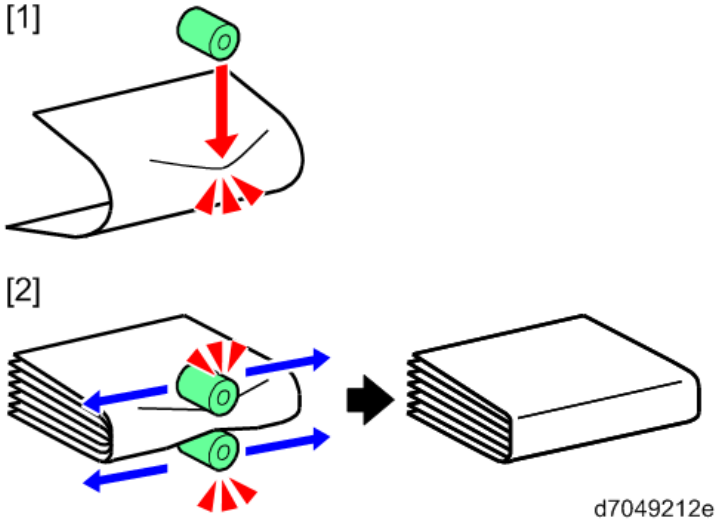
[B] Saddle stitching with this finisher



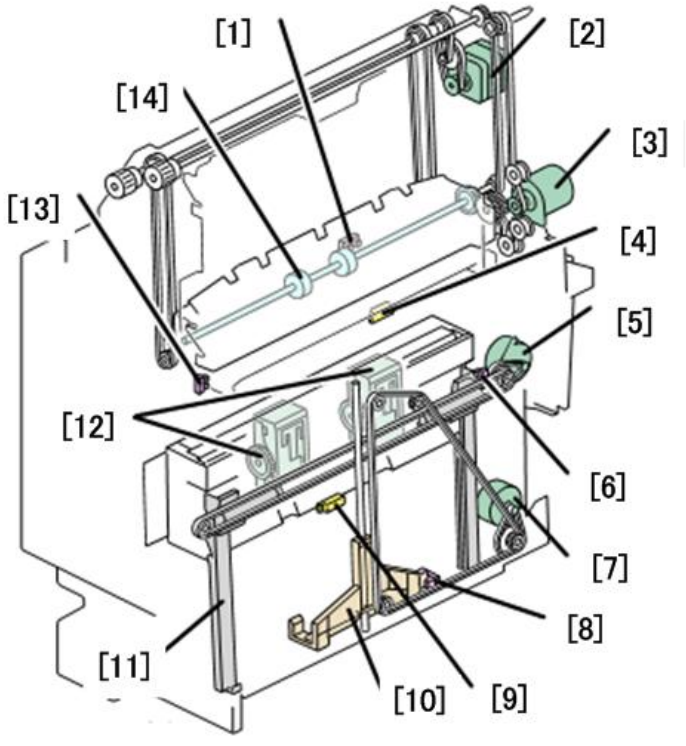
Saddle Stitching with This Finisher

Until now, very heavy pressure had to be applied in order to shape the saddle, and this could not be done unless the finisher was very large. This finisher, however, in spite of being very small, uses the device described below to achieve a better saddle shape.

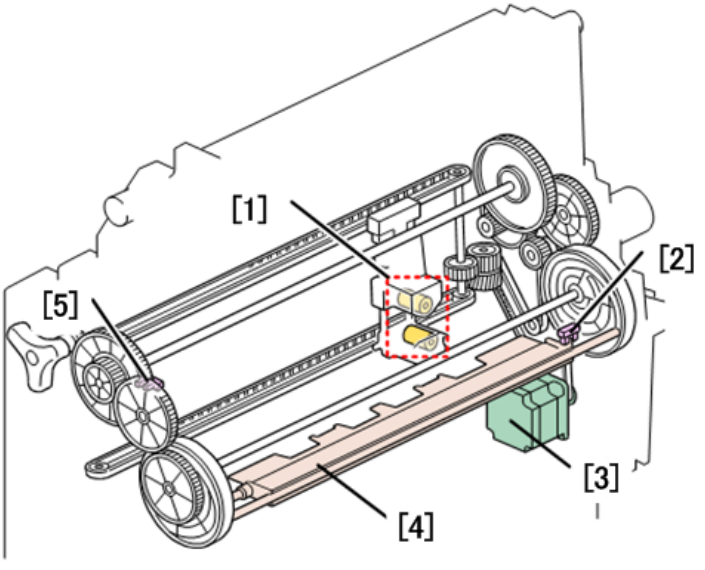
1. Pressure is applied to the fold with a roller to form the saddle.
2. Pressure is applied while the paper is buckled at the top and bottom with two rollers to form the saddle. The rollers move to front and back to strengthen the crease with two folds, not just one fold.



Components



No.	Name	No.	Name
1	Stack junction Gate HP Sensor	8	Bottom Fence HP Sensor
2	Shift Roller Lift Motor	9	Booklet Lower Transport Path Paper Sensor
3	Shift Roller Drive Motor	10	Bottom Fence
4	Booklet Upper Transport Path Paper Sensor	11	Jogger Fence
5	Jogger Fence Motor	12	Booklet Stapler
6	Jogger Fence HP Sensor	13	Guide Open/Closed Sensor
7	Bottom Fence Motor	14	Shift Roller



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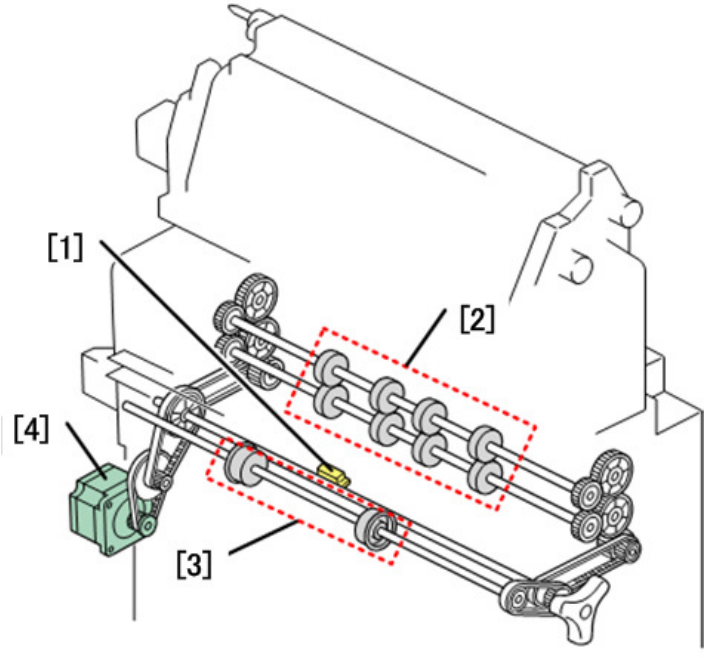
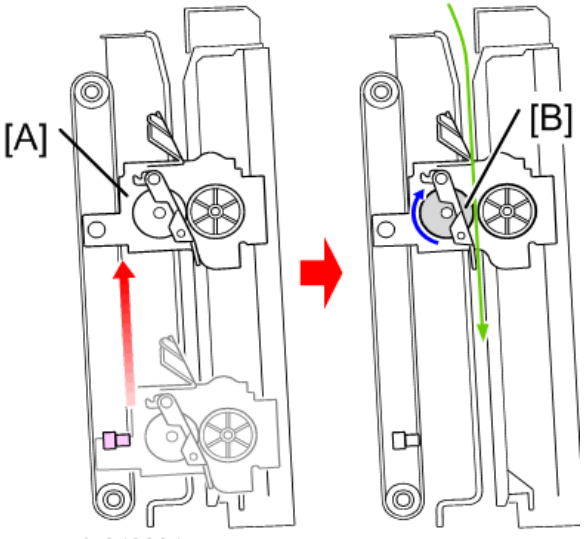
No.	Name	No.	Name
1	Side-to-side Shift Fold Roller	4	Fold Plate
2	Fold Plate HP Sensor	5	Fold Plate Cam Sensor
3	Fold Plate Motor		



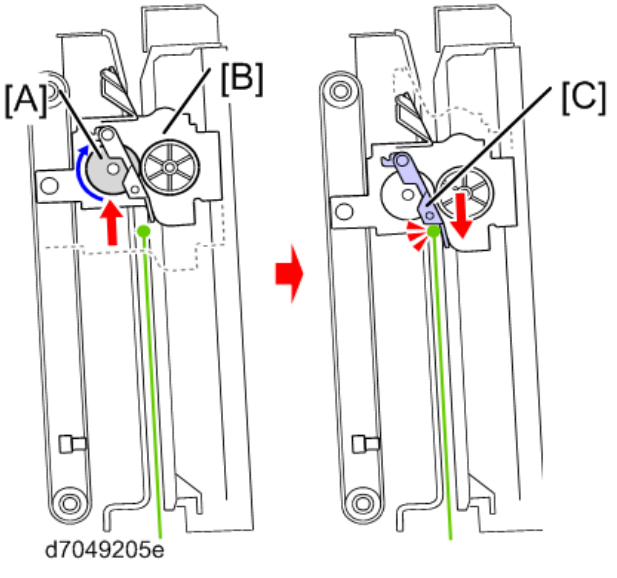
No.	Name	No.	Name
1	Fold Unit Exit Sensor	3	Fold Unit Exit Roller
2	Fold Roller	4	Fold Roller Motor

Booklet Staple Transport

When paper begins to go through the booklet staple path, the shift roller unit [A] moves up to its operating position in order to be ready to transport paper. The shift roller lift motor moves the shift roller unit [A]. The shift roller drive motor rotates the shift roller [B] to transport paper to the bottom.

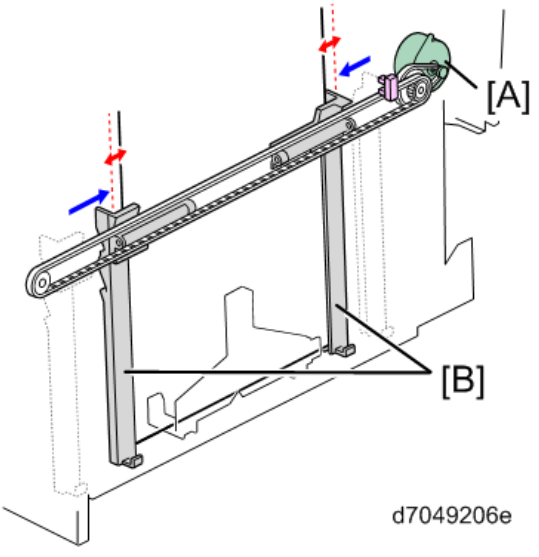


After the transportation has finished, the shift roller unit [B] moves up away from the paper face. While the shift roller unit moves up, the shift roller [A] rotates to feed paper out to the bottom. Then the shift roller unit drops to bump the stack junction gate [C] onto the edge of the paper stack. With this operation, the paper stack is aligned.



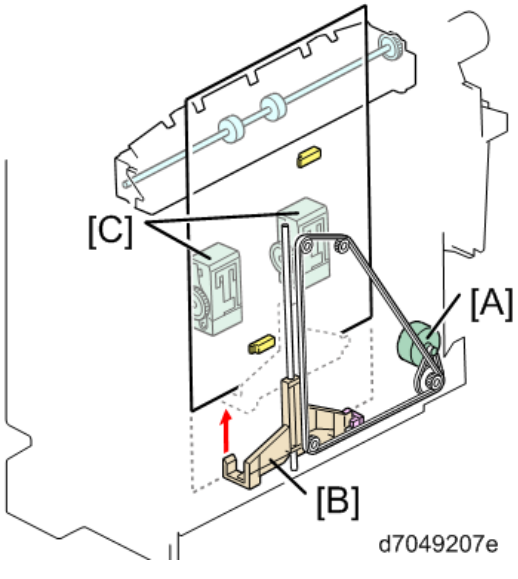
Jogger

The jogger fence motor [A] moves the jogger fences [B] in to align the sides of each page. When a job starts, the jogger fences move to the ready position (this depends on the paper size).



Bottom Fence Operation / Stapling

The stack that is pushed with the stack junction gate bumps against the bottom fence [B] in order to align the stack. Then the booklet staplers [C] staple at the middle points of the stack. After that, the bottom fence motor [A] moves the bottom fence [B] up to the position where the stack is folded with the fold plate.

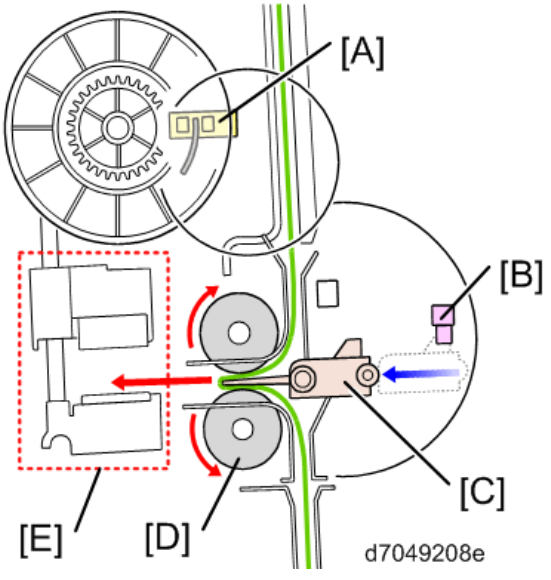


Overview of Center Folding and Saddle Shaping

The fold plate [C] center folds the stack lifted to the fold position by the bottom fence with the pressure from the fold transport motor [D]. Next, the side-to-side fold roller unit [E] forms the saddle shape. The press fold motor drives both the fold plate [C] and the side-to-side fold roller [E]. This is so the fold plate [C] and side-to-side fold roller [E] can operate at the same time.

[A] is the side-to-side fold unit HP sensor.

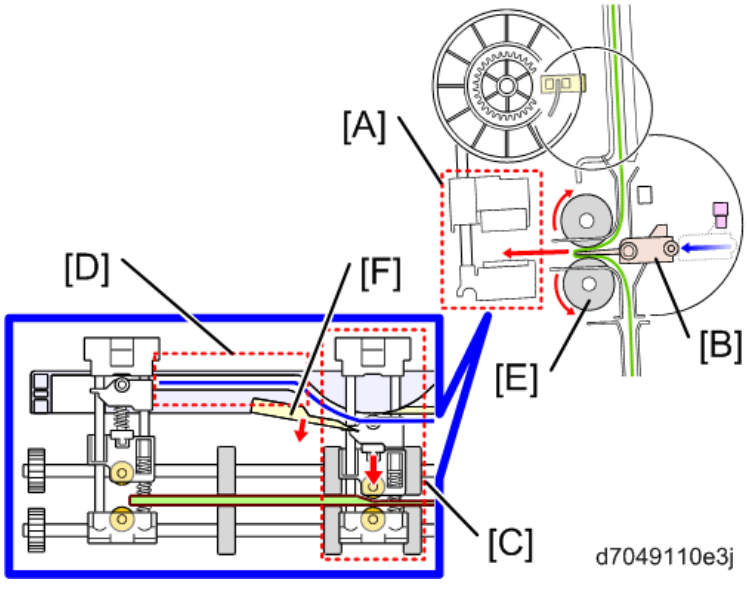
[B] is the fold plate HP sensor.



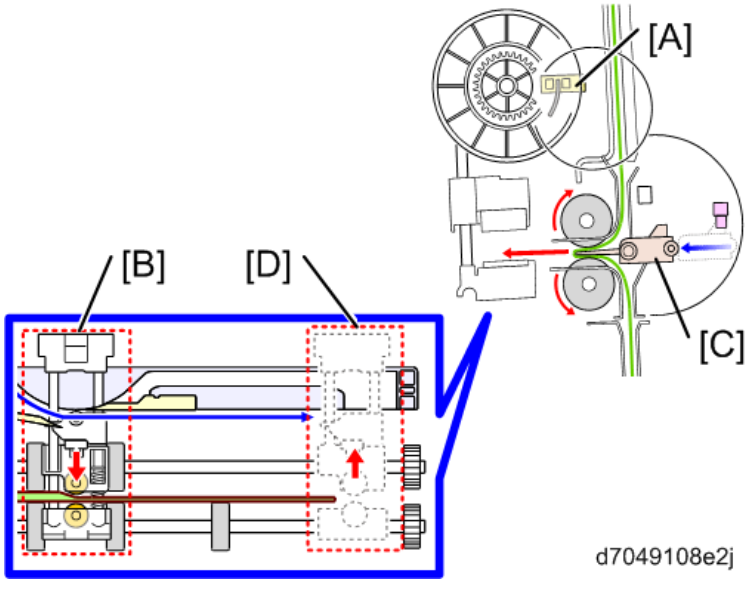
Center Folding and Saddle Shaping Operation

The operation of stack folding and saddle shaping is described below. Saddle shaping alone is described below under "Saddle Shaping Operation".

When the fold plate [B] pushes the center of the stack between the fold transport rollers [E], the side-to-side roller unit slides along the upper path [D]. Next, when the fold plate [B] has pushed the center of the stack completely between the fold rollers, the upper part of the fold roller unit, while pushing out switch plate 1 [F], slides down onto the lower path. Next, the lowering of the top of the side-to-side roller unit presses in the center of the stack with pressure from a large spring, and then center folding begins when the fold plate [B] pushes into the center of the stack.

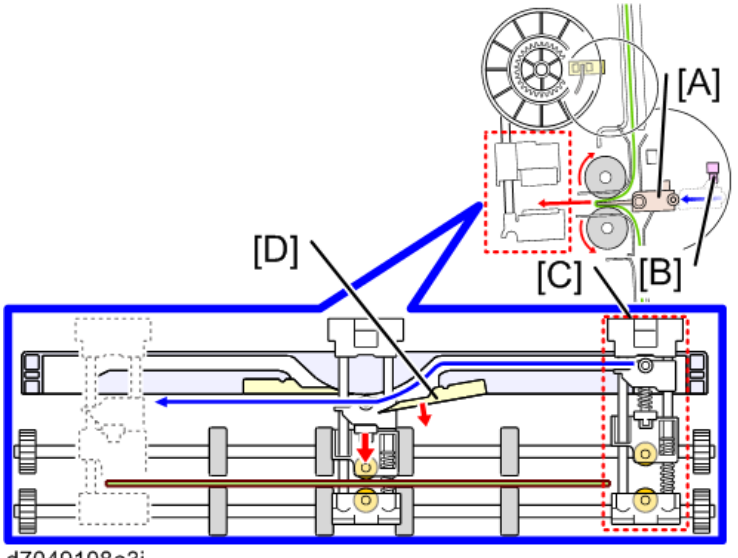


The movement of the fold plate cam stops the fold plate [C] and this holds the center of the stack out in the folded position. The fold roller [B] applies pressure to the protruding stack and moves it toward the left as shown below. Next, when fold roller unit cam sensor [A] goes on twice after the cam has rotated twice, the saddle shape operation is half finished, the fold roller unit is at position [D], and then the press fold motor switches into reverse. At the same time, in the upper path, the top of fold roller unit reverses, releasing pressure on the fold.



When the fold roller unit [C] releases pressure and starts to reverse, the top of the side-to-side fold roller presses on switch plate 2 [D] which directs it down into the lower path. When pressure is applied to the

remaining part of the stack, fold roller [A] returns to the home position, detected by the fold blade HP sensor [B].



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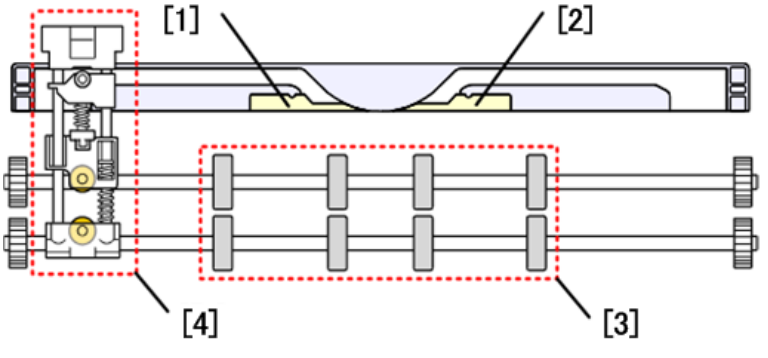
Saddle Shaping Operation



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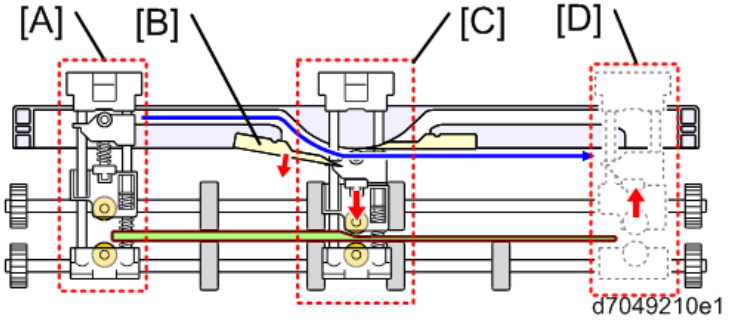
No.	Name	No.	Name
1	Guide Plate	3	Fold Transport Roller
2	Guide Plate 2	4	Side-to-Side Fold Roller Unit

The side-to-side fold roller unit in the center moves from [A] to [C].

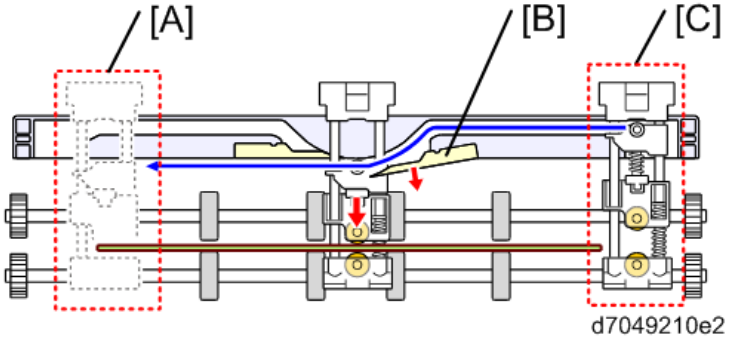
It moves along a rail when it comes to the center, the upper fold (up) descends, and then pressure from a large spring folds the center of the stack.

With the pressure of the side-to-side fold roller applied, the unit moves forward from [C] to [D]. When the roller moves as far as [D], the upper roller of the roller unit ascends from the lower path to the upper path, releasing the pressure on the center of the stack.



The fold plate motor reverses, and the unit increases pressure on the stack as it moves and applies creasing on the remainder of the saddle shape as it moves from [C] to [A].

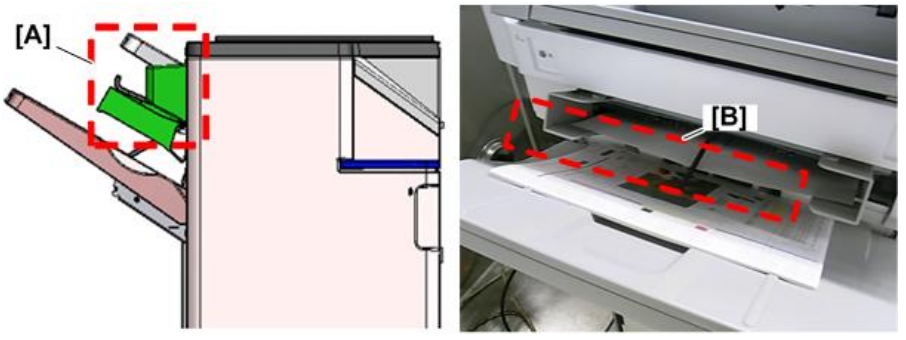
When the top of the side-to-side fold unit reaches the side-to-side fold unit HP sensor, the unit ascends to the upper path and releases pressure on the center of the stack.



Paper Guide Unit

As each stapled copy exits the finisher, it contacts the copy ahead of it already on the shift tray, and the paper guide unit [A] prevents the copies from becoming entangled on the shift tray.

The paper guide motor drives the paper guide cover to reduce the amount of curl and prevent the leading edges from curling and improve the output of stapled copies on the shift tray.



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Related SP Codes

The paper guide mode for corner stapled copies does not operate for shift tray exit, booklet stapled copes, large paper sizes above 300 mm.

- SP6126-001 Use Paper Guide (Small sizes up to 300 mm)
- SP6125-001 Use Paper Guide (Large sizes large than 300 mm)

Paper Guide Removal

The paper guide unit is provided with the paper guide covers [A] at the initial position for users who want to take advantage of the improved stacking, but these covers can be removed. (Even with the covers removed, output will be done correctly even if the paper guides touch during operation.)

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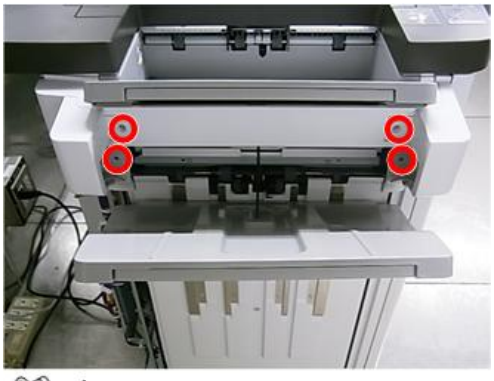


SP6-160-004 (Replacement Mode for Service)

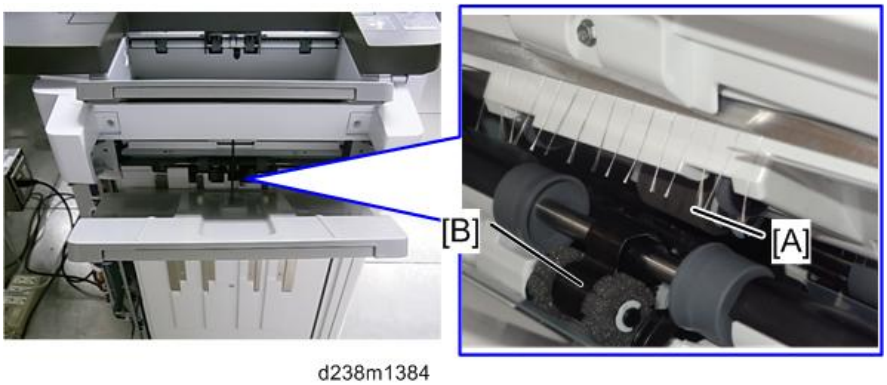
It is easier to access the following parts after running SP-6-160-004.

- Positioning Roller [A]

  The paper exit guide plate moves upwards and the positioning roller pops up in front for easier access.

- Reverse Roller [B]

  The paper exit guide plate moves upwards and the reverse roller can be accessed.



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