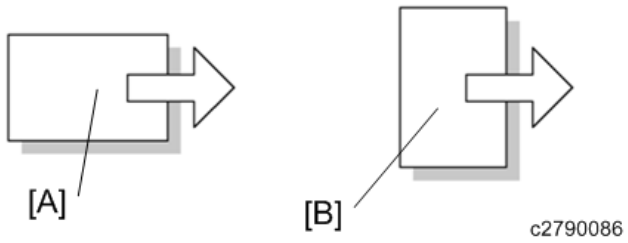
Finisher SR5090, Booklet Finisher SR5100
Machine Code: D3GD, D3GC
Field Service Manual
Ver 1.0

Latest Release: March, 2019
Initial Release: March, 2019

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
LEF	Long Edge Feed
K	Black
C	Cyan
M	Magenta
Y	Yellow
B/W, BW	Black and White
FC	Full color



[A] Short Edge Feed (SEF)

[B] Long Edge Feed (LEF)

Table of Contents

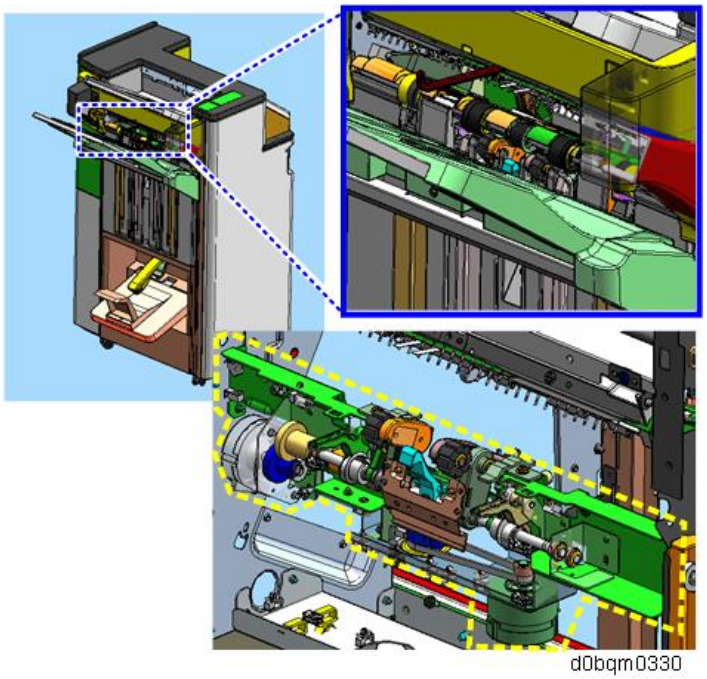
1. Detailed Descriptions

Major Changes from the Previous Machine

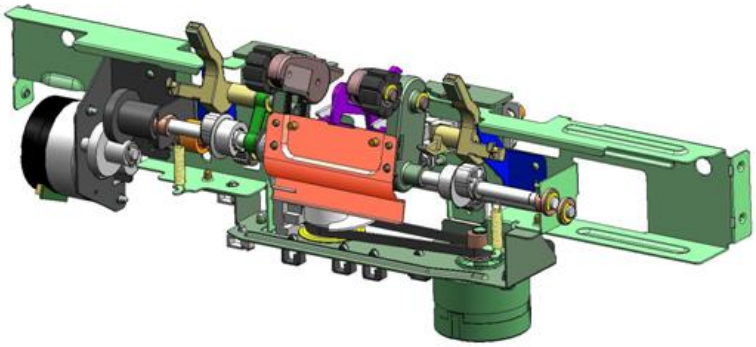
Improved Stackability of Stapled Sheets

New Retraction Mode for the Delivery of Stapled Sheets

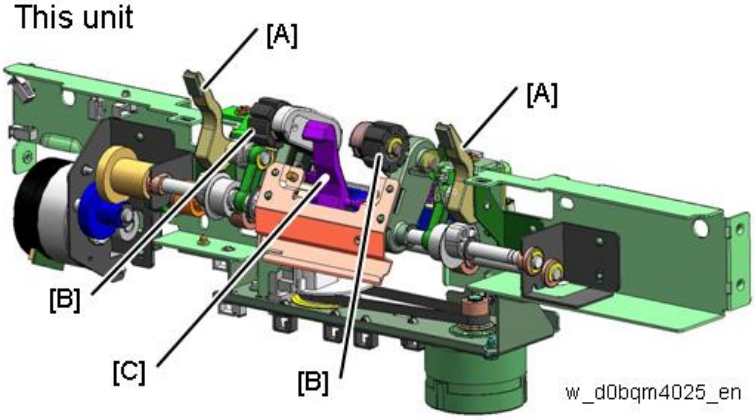
To improve the stackability of stapled sheets, the trailing edge alignment unit (framed in yellow) now has a mechanism for controlling stapling job delivery.



Previous unit



This unit



[A]: Paper Stacking Holder

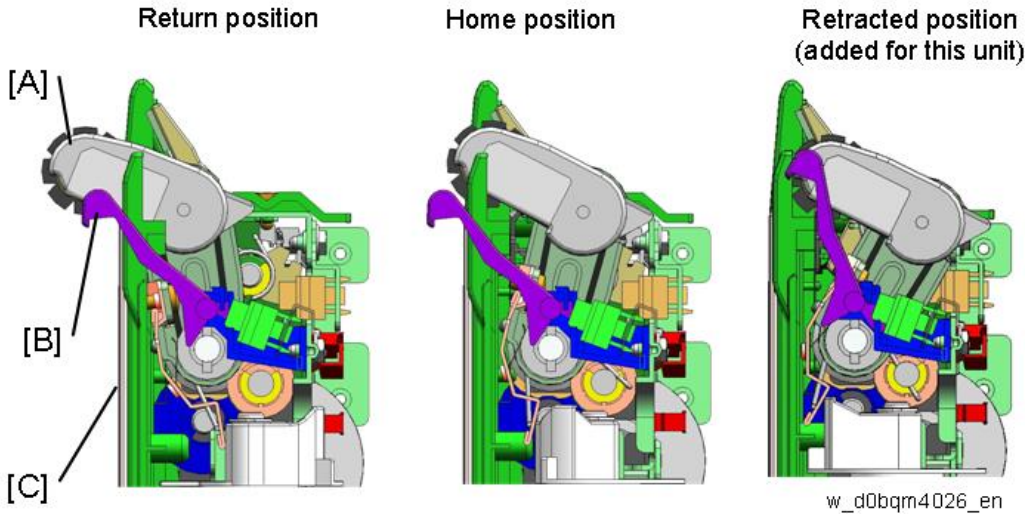
[B]: Stacking Sponge Roller

[C]: Actuator for the Shift Tray Paper Height Sensor (S35)

After paper delivery, the stacking sponge roller [A] and actuator [B] move to the return position. During paper delivery, they move to the home position. The stacking sponge roller retracts slightly into the end fence.

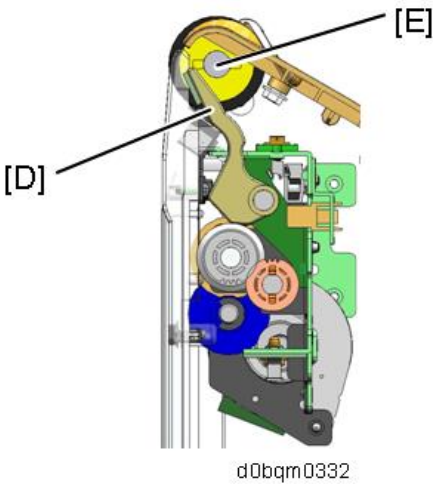
On this machine, when delivering stapled sheets, the stacking sponge roller [A] and actuator [B] retract **entirely** into the end fence.

On the previous machine, they were at the home position even for stapled jobs.



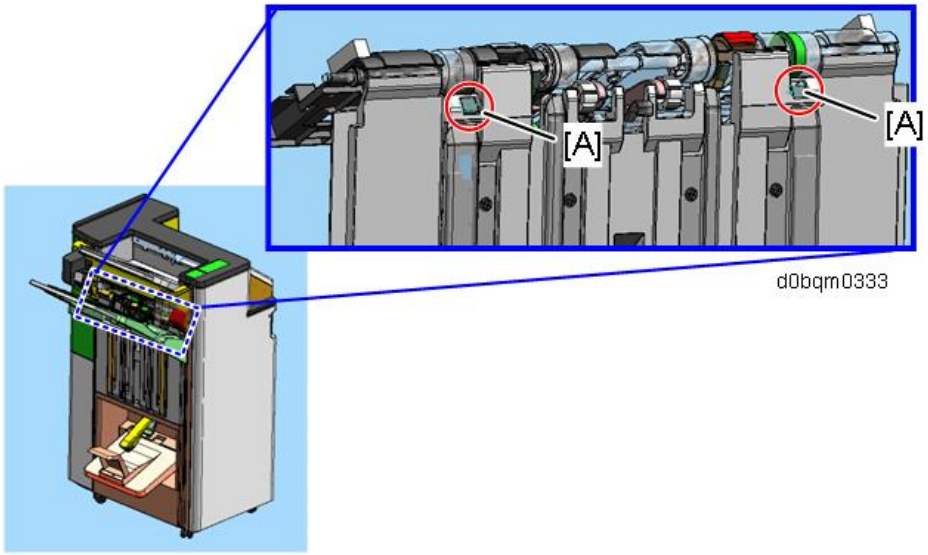
The thickness of the leading edge of the paper stacking holder [D] was reduced to create a wider gap

with the paper exit roller [E], thus allowing a larger amount to be retracted.



New Sensors

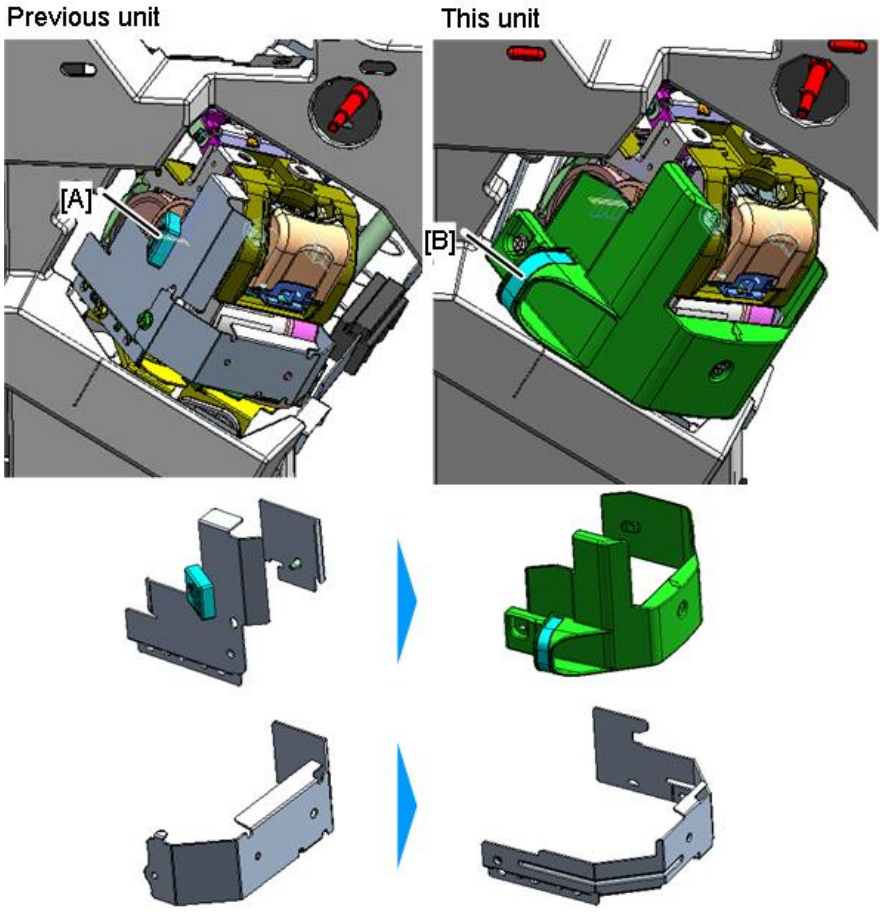
Two sensors [A] (the front and rear Sub Height Sensors) were added to detect stapled sheets.



When sheets stapled at one point (corner stapling) are stacked, the height of the stapled corner is higher and hits the paper guide, edge guide, or the next stapled booklet. When one of the sensors detects paper, the machine determines that the height limit has been reached and stops printing.

Easier Replacement of Staple Cartridge

The exterior of the stapler unit has been changed from a bracket to a resin cover.
The handle [A] is joined to the cover, and there is a decal [B] for checking operation.



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Storing Extra Staple Cartridges

Thers is now a holder for storing extra cartridges.

This staple cartridge holder [A] is affixed to the inside of the finisher's front door.

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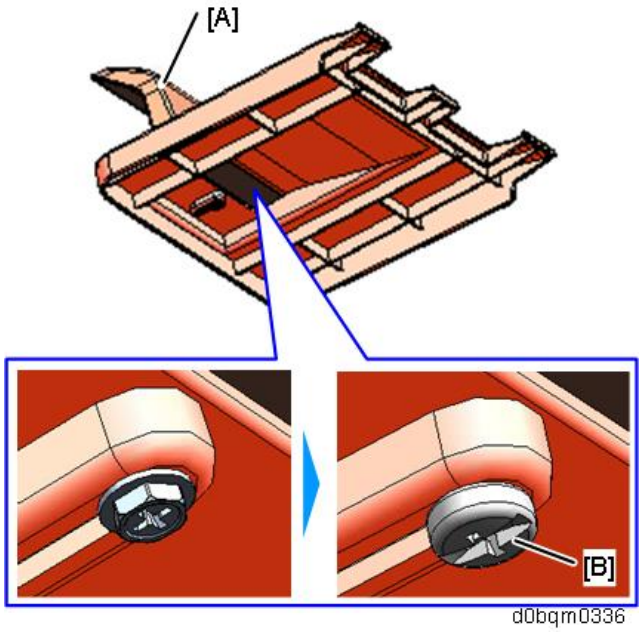
Detaching and Reattaching the Booklet Tray End Fence By the Customer

The screw for securing the end fence [A] has been changed to a coin screw, allowing the customer to detach and reattach the end fence.



Staple Near-End Detection

For details, see Staple Near-End Detection.

Specifications

Finisher SR5090

Item	Specifications
Paper size for the Finisher Upper Tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, $5^1/_2$ x $8^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 13 × $19^1/_5$ SEF, 13 × 19 SEF, $12^3/_5$ x $19^1/_5$ SEF, $12^3/_5$ x $18^1/_2$ SEF, 13 × 18 SEF, SRA3 SEF, SRA4 SEF/LEF, 226 × 310 mm SEF/LEF, 310 × 432 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, custom size
Paper weight for the Finisher Upper Tray:	52.3–220.0 g/m^2 (14.0 lb. Bond–80.9 lb. Cover)

Stack capacity for the Finisher Upper Tray (80 g/m2, 20 lb. Bond):	• Without Z-fold:
	  • 250 sheets: A4, $8^1/_2$ x 11 or smaller
	  • 50 sheets: B4 JIS, $8^1/_2$ × $13^2/_5$ or larger
	• With Z-fold:
	  • 20 sheets: A4, $8^1/_2$ x 11 or smaller
	  • 30 sheets: B4 JIS, $8^1/_2$ × $13^2/_5$ or larger

Paper size for the Finisher Shift Tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 SEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, 8 x $10^1/_2$ SEF, 8 x 10 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, $5^1/_2$ x $8^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 13 × $19^1/_5$ SEF, 13 × 19 SEF, $12^3/_5$ x $19^1/_5$ SEF, $12^3/_5$ x $18^1/_2$ SEF, 13 × 18 SEF, SRA3 SEF, SRA4 SEF/LEF, 226 × 310 mm SEF/LEF, 310 × 432 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, custom size

Paper weight for the Finisher Shift Tray:	• Without Z-fold:
	  52.3–300.0 g/m2 (14.0 lb. Bond–165.0 lb. Index)
	• With Z-fold:
	  64.0–105.0g/ m2 (17.1-28.0 lb. Bond)

Paper sizes that can be shifted when delivered to both finisher trays:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, $5^1/_2$ x $8^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, SRA4 SEF, 226 × 310 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, custom size

Item	Specifications
Paper weight that can be shifted when delivered to the Finisher Shift Tray:	52.3–300.0 g/m2 (14.0 lb. Bond–165.0 lb. Index)

Stack capacity for the Finisher Shift Tray (80 g/m2, 20 lb. Bond):	• Without Z-fold:
	  • 3,000 sheets: A4 LEF, 8 1/2 x 11 LEF
	  • 1,500 sheets: A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF, 12 x 18 SEF, SRA3 SEF, 13 x 19 1/5 SEF, Long Edge 182 - 487.9 mm
	  • 500 sheets: A5 LEF, Long Edge 148–181.9 mm
	  • 100 sheets: A5 SEF, A6 SEF, 5 1/2 x 8 1/2 SEF
	• With Z-fold:
	  • 20 sheets: A4, 8 1/2 x 11 or smaller
	  • 30 sheets: B4 JIS, 8 1/2 x 13 2/5 or larger

Staple paper size:	A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 SEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 226 × 310 mm SEF, 8 1/2 x 13 2/5 SEF, 8 1/2 x 13 1/2 SEF
Staple paper weight:	52.3–105.0 g/m2 (14.0 lb. Bond–28.0 lb. Bond) You can use a sheet of paper weighing between 105.1 g/m2 (28.1 lb. Bond) and 256.0 g/m2 (141.0 lb. Index) per set as a slip sheet.
Staple capacity (80 g/m2, 20 lb. Bond):	• Without Mixed Size: 65 sheets: A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 SEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 226 × 310 mm SEF, 8 1/2 x 13 2/5 SEF, 8 1/2 x 13 1/2 SEF • With Mixed Sizes: 65 sheets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS LEF, 11 x 17 SEF/ 8 1/2 x 11 LEF) • With Z-fold: 8 sheets: 52.0–80.0g/m2 (13.9-21.0 lb. Bond) 5 sheets: 80.1–105.0g/m2 (21.1-28.0 lb. Bond)

Stack capacity after stapling (80 g/m2, 20 lb. Bond):	• Without Z-fold and Mixed Sizes:
	  • 20–65 sheets: 150–46 sets (A4 LEF, 8 1/2 × 11 LEF)
	  • 2–19 sheets: 150 sets (A4 LEF, 8 1/2 × 11 LEF)

Item	Specifications
	• 15–65 sheets: 100–23 sets (A4 SEF, 8 1/2 × 11 SEF) • 2–14 sheets: 100 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 × 17 SEF, 8 1/2 × 14 SEF, 8 1/2 × 13 SEF, 8 1/2 × 11 SEF, 8 1/4 × 14 SEF, 8 1/4 × 13 SEF, 8 × 13 SEF, 7 1/4 × 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 11 × 15 SEF, 11 × 14 SEF, 10 × 15 SEF, 10 × 14 SEF, 226 × 310 mm SEF, 8 1/2 × 13 2/5 SEF, 8 1/2 × 13 1/2 SEF) • With Mixed Sizes: 2–65 sheets: 23 sets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS LEF, 11 × 17 SEF/81/2 × 11 LEF) • With Z-fold: • 1–8 sheets: 23sets
Staple position:	4 positions (Top, Top Slant, Bottom, 2 Staples)
Power consumption:	67 W or less (Power is supplied from the main unit.)
Dimensions (W x D x H):	657 × 730 × 980 mm (25.9 × 28.7 × 38.6 inches)
Weight:	• Without punch unit: 38 kg (83.8 lb.) or less • With punch unit: 41 kg (90.4 lb.) or less

Booklet Finisher SR5100

Item	Specifications
Paper size for the Finisher Upper Tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, A6 SEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 SEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, 7 1/4 x 10 1/2 SEF/LEF, 5 1/2 x 8 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 13 × 19 1/5 SEF, 13 × 19 SEF, 12 3/5 x 19 1/5 SEF, 12 3/5 x 18 1/2 SEF, 13 × 18 SEF, SRA3 SEF, SRA4 SEF/LEF, 226 × 310 mm SEF/LEF, 310 × 432 mm SEF, 8 1/2 x 13 2/5 SEF, 8 1/2 x 13 1/2 SEF, custom size
Paper weight for the Finisher Upper Tray:	52.3–220.0 g/m2 (14.0 lb. Bond–80.9 lb. Cover)
Stack capacity for the Finisher Upper Tray (80 g/m2, 20 lb. Bond):	• Without Z-fold: • 250 sheets: A4, 8 1/2 x 11 or smaller • 50 sheets: B4 JIS, 8 1/2 × 13 2/5 or larger • With Z-fold: • 20 sheets: A4, 8 1/2 x 11 or smaller • 30 sheets: B4 JIS, 8 1/2 × 13 2/5 or larger

Item	Specifications
Paper size for the Finisher Shift Tray:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, B6 SEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, $5^1/_2$ x $8^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 13 × $19^1/_5$ SEF, 13 × 19 SEF, $12^3/_5$ x $19^1/_5$ SEF, $12^3/_5$ x $18^1/_2$ SEF, 13 × 18 SEF, SRA3 SEF, SRA4 SEF/LEF, 226 × 310 mm SEF/LEF, 310 × 432 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, custom size
Paper weight for the Finisher Shift Tray:	52.3–300.0 g/m2 (14.0 lb. Bond–165.0 lb. Index)
Paper sizes that can be shifted when delivered to both finisher trays:	A3 SEF, A4 SEF/LEF, A5 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, 8 x 10 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, $5^1/_2$ x $8^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 12 x 18 SEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, SRA4 SEF/LEF, 226 × 310 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, custom size
Paper weight that can be shifted when delivered to the Finisher Shift Tray:	52.3–300.0 g/m2 (14.0 lb. Bond–165.0 lb. Index)

Stack capacity for the Finisher Shift Tray (80 g/m2, 20 lb. Bond):	• Without Z-fold:
	  • 2,000 sheets: A4 LEF, $8^1/_2$ x 11 LEF
	  • 1,000 sheets: A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 11 SEF, 12 x 18 SEF, SRA3 SEF, 13 x $19^1/_5$ SEF, Long Edge 182 - 487.9 mm
	  • 500 sheets: A5 LEF, Long Edge 148–181.9 mm
	  • 100 sheets: A5 SEF, A6 SEF, $5^1/_2$ x $8^1/_2$ SEF
	• With Z-fold:
	  • 30 sheets: B4 JIS SEF, $8^1/_2$ x 14 SEF
	  • 20 sheets: A4, $8^1/_2$ x 11 SEF

Staple paper size:	A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 13 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 8 x 13 SEF, $7^1/_4$ x $10^1/_2$ SEF/LEF, 8K SEF, 16K SEF/LEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 226 × 310 mm SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF
Staple paper weight:	52.3–105.0 g/m2 (14.0–28.0 lb. Bold) You can use a sheet of paper weighing between 105.1 g/m2 (28.1 lb. Bond) and 256.0 g/m2 (141.0 lb.Index) per set as a slip sheet.

Item	Specifications
Staple capacity (80 g/m2, 20 lb. Bond):	• Without Z-fold and Mixed Sizes: 65 sheets: A3 SEF, A4 SEF/LEF, B4 JIS SEF, B5 JIS SEF/LEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 13 SEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 8 x 13 SEF, 7 1/4 x 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 11 x 15 SEF, 11 x 14 SEF, 10 x 15 SEF, 10 x 14 SEF, 226 × 310 mm SEF, 8 1/2 x 13 2/5 SEF, 8 1/2 x 13 1/2 SEF • With Mixed Size: 65 sheets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS LEF, 11 x 17 SEF/ 8 1/2 x 11 LEF, 8K SEF/16K LEF) • With Z-fold: 8 sheets: 52.0–80.0g/m2 (13.9-21.0 lb. Bond) 5 sheets: 80.1–105.0g/m2 (21.1-28.0 lb. Bond)
Stack capacity after stapling (80 g/m2, 20 lb. Bond):	• Without Z-fold and Mixed Sizes: • 13–65 sheets: 150–30 sets (A4 LEF, 8 1/2 × 11 LEF) • 2–12 sheets: 150 sets (A4 LEF, 8 1/2 × 11 LEF) • 10–65 sheets: 100–15 sets (A4 SEF, B5 JIS SEF, 8 1/2 × 11 SEF) • 2–9 sheets: 100 sets (A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 × 17 SEF, 8 1/2 × 14 SEF, 8 1/2 × 13 SEF, 8 1/2 × 11 SEF, 8 1/4 × 14 SEF, 8 1/4 × 13 SEF, 8 × 13 SEF, 7 1/4 × 10 1/2 SEF/LEF, 8K SEF, 16K SEF/LEF, 11 × 15 SEF, 11 × 14 SEF, 10 × 15 SEF, 10 × 14 SEF, 226 × 310 mm SEF, 8 1/2 × 13 2/5 SEF, 8 1/2 × 13 1/2 SEF) • With Mixed Sizes: 2–65 sheets: 15 sets (A3 SEF/A4 LEF, B4 JIS SEF/B5 JIS LEF, 11 × 17 SEF/81/2 × 11 LEF) • With Z-fold: 1–8 sheets: 30sets
Staple position:	4 positions (Top, Top Slant, Bottom, 2 Staples)
Saddle stitch paper size:	A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 x 17 SEF, 8 1/2 x 14 SEF, 8 1/2 x 11 SEF/LEF, 8 1/4 x 14 SEF, 8 1/4 x 13 SEF, 12 x 18 SEF, 11 × 15 SEF, 11 × 14 SEF, 10 × 15 SEF, 10 × 14 SEF, 13 x 18 SEF, SRA3 SEF, SRA4 SEF, 8 1/2 x 13 2/5 SEF, 8 1/2 x 13 1/2 SEF Custom size • Vertical: 182.0–330.2 mm (7.17–13.00 inches) • Horizontal: 257.0–457.2 mm (10.12–18.00 inches)
Saddle stitch paper weight:	64.0–105.0 g/m2 (17.1–28.0 lb. Bond) You can use a sheet of paper weighing between 64.0 g/m2 (17.1 lb. Bond) and 216.0 g/m2 (79.9 lb.Cover) per set as a cover sheet. You can use this function with more than one cover sheet, but the

Item	Specifications
	finishing precision is not guaranteed.
Saddle stitch capacity (80 g/m2, 20 lb. Bond):	• 20 sheets: 64.0–80.0g/m2 (17.1–21.0 lb. Bond) • 15-19 sheets: 80.1–105.0g/m2 (21.1–28.0 lb. Bond)
Stack capacity after saddle stitching (80 g/m2, 20 lb. Bond):	• 2–5 sheets: 30 sets • 6–10 sheets: 15 sets • 11–15 sheets: 10 sets • 16–20 sheets: 6 sets
Saddle stitch position:	Center 2 positions
Types of folds:	Half Fold
Half fold paper size:	A3 SEF, A4 SEF, B4 JIS SEF, B5 JIS SEF, 11 x 17 SEF, $8^1/_2$ x 14 SEF, $8^1/_2$ x 11 SEF/LEF, $8^1/_4$ x 14 SEF, $8^1/_4$ x 13 SEF, 12 x 18 SEF, 13 x 18 SEF, SRA3 SEF, SRA4 SEF, $8^1/_2$ x $13^2/_5$ SEF, $8^1/_2$ x $13^1/_2$ SEF, LGT, Custom size • Vertical: 182.0–330.2 mm (7.17–13.00 inches) • Horizontal: 257.0–457.2 mm (10.12–18.00 inches)
Folding capacity of half folding function:	• 1 sheet: 64.0–216.0g/m2 (17.1 lb. Bond–79.9 lb. Cover) • 2–5 sheets: 64.0–105.0g/m2 (17.1–28.0 lb. Bond)
Power consumption:	67 W or less (Power is supplied from the main unit.)
Dimensions (W × D × H):	657 × 730 × 980 mm (25.9 × 28.7 × 38.6 inches)
Weight:	• Without punch unit: 58 kg (127.9 lb.) or less • With punch unit: 61 kg (134.5 lb.) or less

Paper Specifications

		Paper Thick [g/m2]								
	Normal	Thick 0 (40.0 to 52.2)	Thick 1 (52.3 to 63.0)	Thick 2 (63.1 to 80.0)	Thick 3 (80.1 to 105.0)	Thick 4 (105.1 to 163.0)	Thick 5 (163.1 to 220.0)	Thick 6 (220.1 to 256.0)	Thick 7 (256.1 to 300.0)	Thick 8 (300.1 to 350.0)
A3 SEF	◎	◎	◎	◎	◎	●	●	△	▲	▲
B4 SEF	◎	◎	◎	◎	◎	●	●	△	▲	▲
A4 SEF	◎	◎	◎	◎	◎	●	●	△	▲	▲
A4 LEF	■	■	■	■	■	●	●	△	▲	▲
B5 SEF	◎	◎	◎	◎	◎	●	●	△	▲	▲
B5 LEF	■	■	■	■	■	●	●	△	▲	▲

		Paper Thick [g/m2]								
	Normal	Thick 0 (40.0 to 52.2)	Thick 1 (52.3 to 63.0)	Thick 2 (63.1 to 80.0)	Thick 3 (80.1 to 105.0)	Thick 4 (105.1 to 163.0)	Thick 5 (163.1 to 220.0)	Thick 6 (220.1 to 256.0)	Thick 7 (256.1 to 300.0)	Thick 8 (300.1 to 350.0)
A5 SEF	●	●	●	●	●	●	●	△	▲	▲
A5 LEF	●	●	●	●	●	●	●	△	▲	▲
B6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲	▲
A6 SEF	◇	◇	◇	◇	◇	◇	◇	▲	▲	▲
13”×18” 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	●	△	-	-	△

	Color	Translucent	Label SA	Postcard	Transparencies
B5 LEF	◎	△	-	-	△
A5 SEF	-	-	-	-	-
A5 LEF	-	-	-	-	-
B6 SEF	-	-	-	-	-
B6 LEF	-	-	-	-	-
12”×18” SEF	●*1	-	-	-	-
13”×18” SEF	●*1	-	-	-	-
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	-	-	-	-	-

*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

Punch Unit PU3090

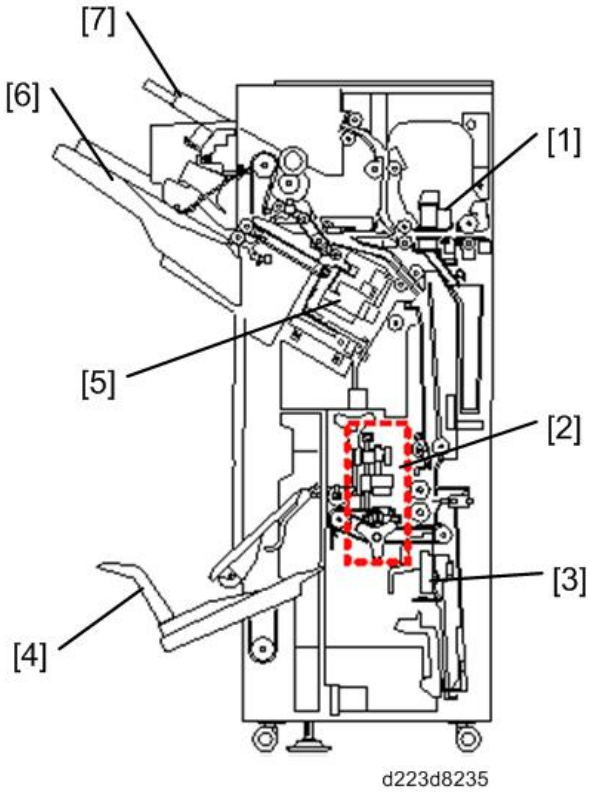
Punch unit type	Paper size
2 & 4 holes type: 2 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, $8^1/_2$ x 14, $8^1/_2$ x 11, $5^1/_2$ x $8^1/_2$, $7^1/_4$ x $10^1/_2$, 8 x 13, $8^1/_2$ x 13, $8^1/_4$ x 13, 8K, 16K, $8^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
2 & 4 holes type: 2 holes	LEF: A4, B5 JIS, A5, $8^1/_2$ x 11, $7^1/_4$ x $10^1/_2$, 16K, custom size
2 & 4 holes type: 4 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 8K, custom size
2 & 4 holes type: 4 holes	LEF: A4, B5 JIS, $8^1/_2$ x 11,$7^1/_4$ x $10^1/_2$, 16K, custom size
4 holes type: 4 holes	SEF: A3, B4 JIS, A4, B5 JIS, A5, 11 x 17, $8^1/_2$ x 14, $8^1/_2$ x 11, $5^1/_2$ x $8^1/_2$, $7^1/_4$ x $10^1/_2$, 8 x 13, $8^1/_2$ x 13, $8^1/_4$ x 13, 8K, 16K, $8^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
4 holes type: 4	LEF: A4, B5 JIS, A5, $8^1/_2$ x 11, $7^1/_4$ x $10^1/_2$, 16K, custom size

Punch unit type	Paper size
holes	
2 & 3 holes type: 2 holes	SEF: A3, B4 JIS, B5 JIS, A5, 11 x 17, $8^1/_2$ x 14, $8^1/_2$ x 11, $5^1/_2$ x $8^1/_2$, $7^1/_4$ x $10^1/_2$, 8 x 13, $8^1/_2$ x 13, $8^1/_4$ x 13, 8K, 16K, $8^1/_4$ x 14, 8 x 10, 11 x 15, 10 x 14, custom size
2 & 3 holes type: 2 holes	LEF: A4, B5 JIS, $8^1/_2$ x 11, $7^1/_4$ x $10^1/_2$, 16K, custom size
2 & 3 holes type: 3 holes	SEF: A3, B4 JIS, 11 x 17, 11 x 15, 10 x 14, 8K, custom size
2 & 3 holes type: 3 holes	LEF: A4, B5 JIS, $8^1/_2$ x 11,$7^1/_4$ x $10^1/_2$, 16K, custom size

Paper weight:	52–256 g/m^2 (14 lb. Bond–140 lb. Index)

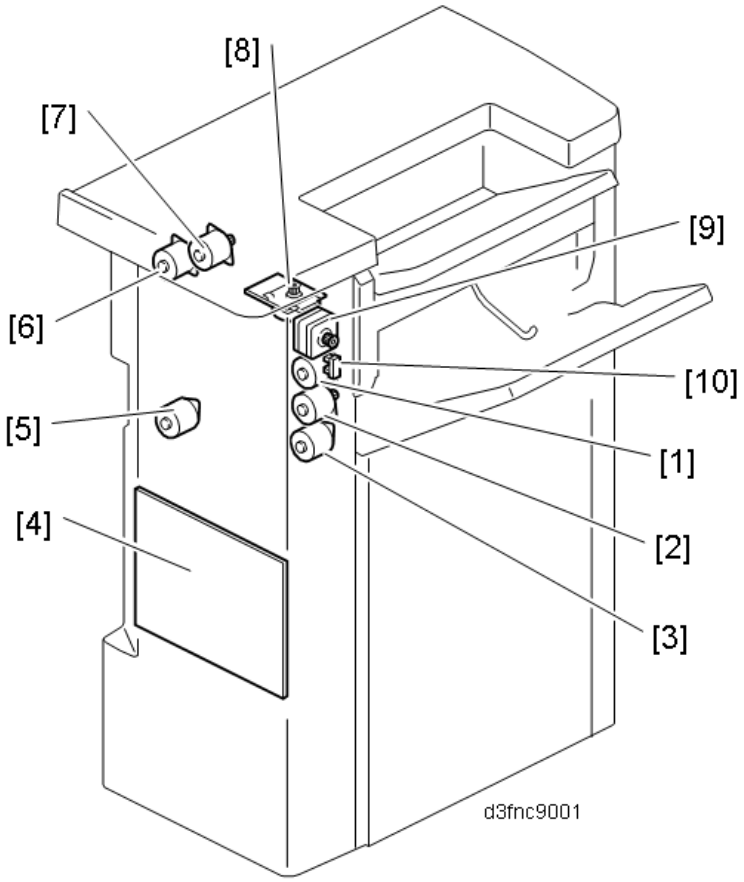
Layout

General Layout

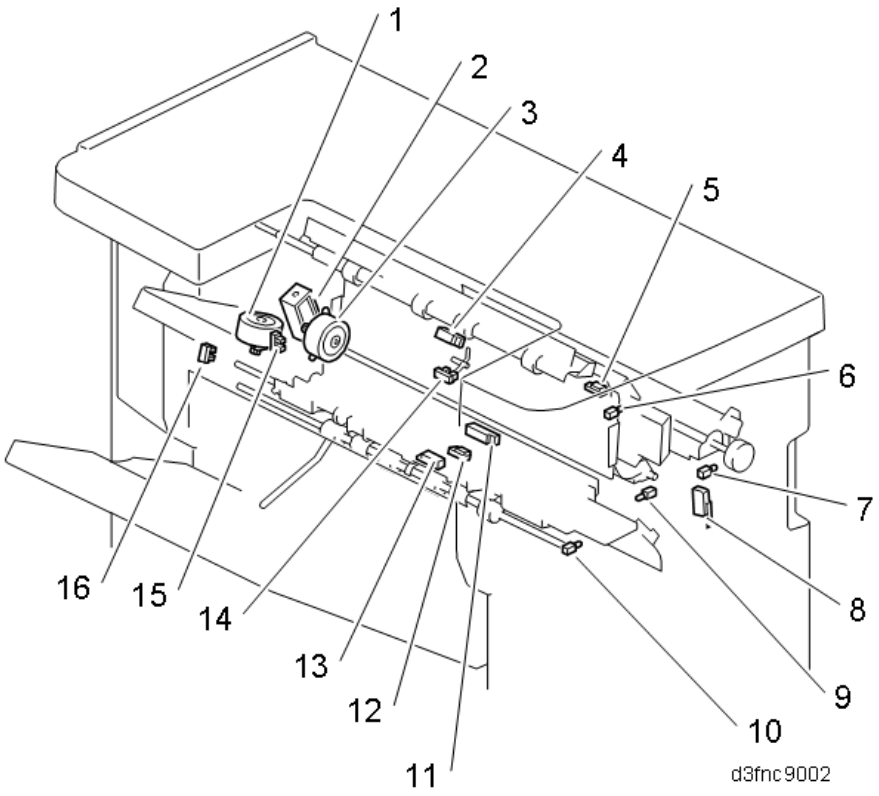


No.	Name	No.	Name
1	Punch Units	5	Corner Stapler
2	Side-to-Side Fold Roller	6	Shift Tray
3	Booklet Stapler	7	Proof Tray
4	Booklet Staple Tray	-	-

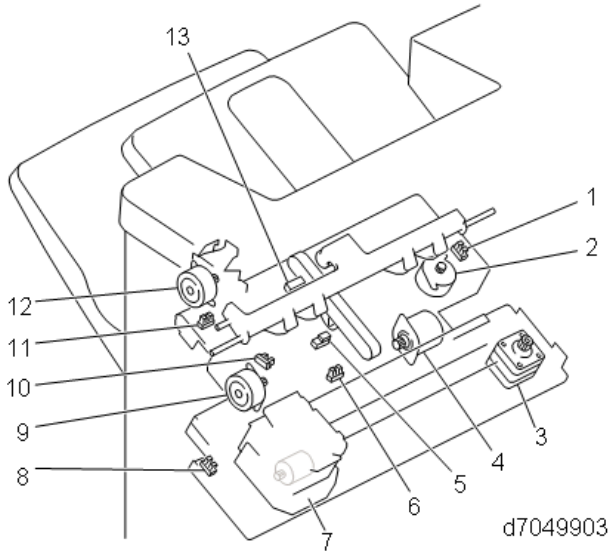
Electrical Component Layout



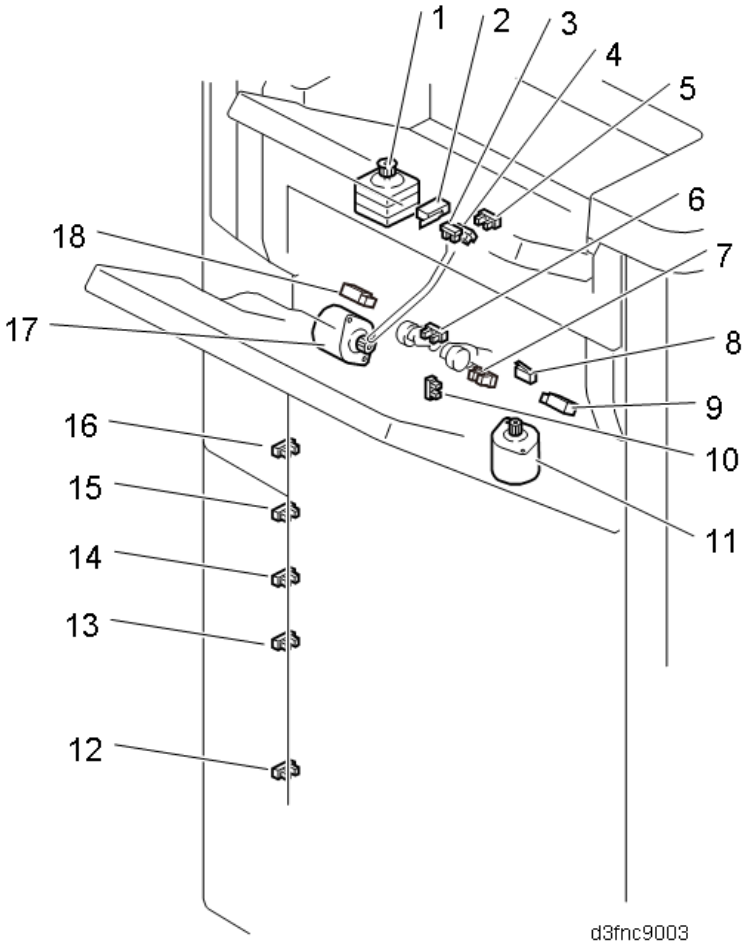
No.	Part
1	Exit Motor
2	Transport Motor
3	Positioning Roller Motor
4	Controller Board
5	Pre-stack Transport Motor
6	Entrance Transport Motor
7	Horizontal Transport Motor
8	Tray Lift Motor
9	Paper Guide Motor
10	Paper Guide HP Sensor



No.	Part	No.	Part
1	Shift Motor	9	LED 3
2	Upper Junction Gate Solenoid	10	LED 2
3	Lower Junction Gate Motor	11	Horizontal Transport Sensor
4	Proof Tray Full Sensor	12	Switchback Transport Sensor
5	Entrance Sensor	13	Transport Path Paper Sensor
6	LED 1	14	Proof Tray Exit Sensor
7	LED 4	15	Lower Junction Gate JP Sensor
8	Front Door Switch	16	Shift Roller HP Sensor

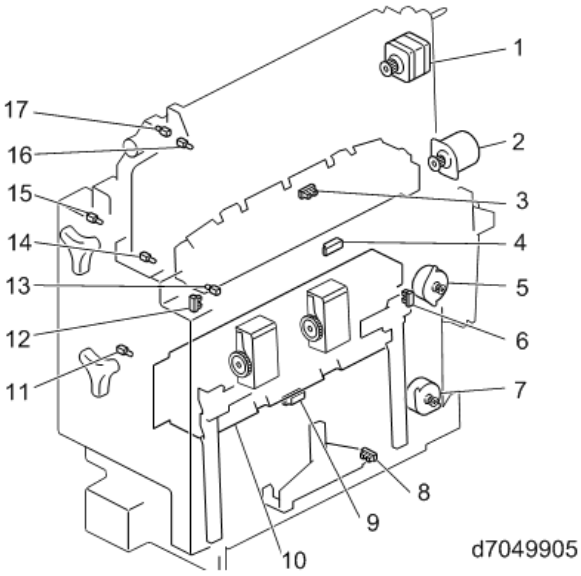


No.	Part	No.	Part
1	Jogger Fence HP Sensor	8	Stapler Move HP Sensor
2	Jogger Motor	9	Leading Edge Guide Motor
3	Corner Stapler Movement Motor	10	Leading Edge Guide HP Sensor
4	Feed-out Belt Motor	11	Positioning Roller HP Sensor
5	Staple Tray Paper Sensor	12	Positioning Roller Shift Motor
6	Feed-out Belt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

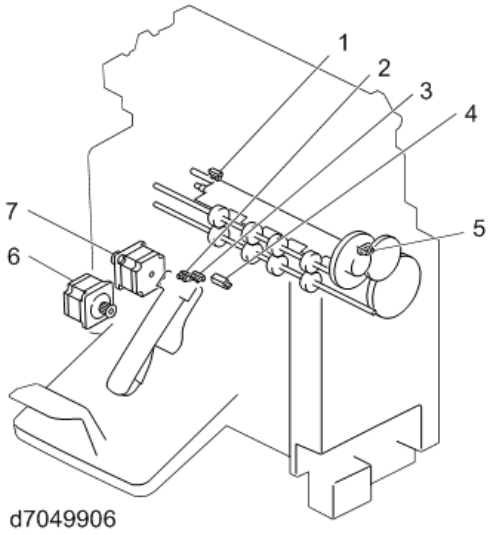


No.	Part	No.	Part
1	Paper Exit Guide Plate Motor	10	Stacking Sponge Roller HP Sensor
2	Paper Exit Guide Plate Limit Switch	11	Paper Stacking Holder Motor
3	Booklet Stack Height Sensor 1	12	Shift Tray Lower Limit Sensor 5
4	Booklet Stack Height Sensor 2	13	Shift Tray Lower Limit Sensor 4
5	Exit Guide Plate HP Sensor	14	Shift Tray Lower Limit Sensor 3
6	Paper Stacking Holder HP Sensor	15	Shift Tray Lower Limit Sensor 2
7	Shift Tray Paper Height Sensor	16	Shift Tray Lower Limit Sensor 1
8	Upper Tray Height Limit Switch	17	Paper Stacking Holder Motor
9	Sub Height Sensor (Front)	18	Sub Height Sensor (Rear)

Booklet Finisher



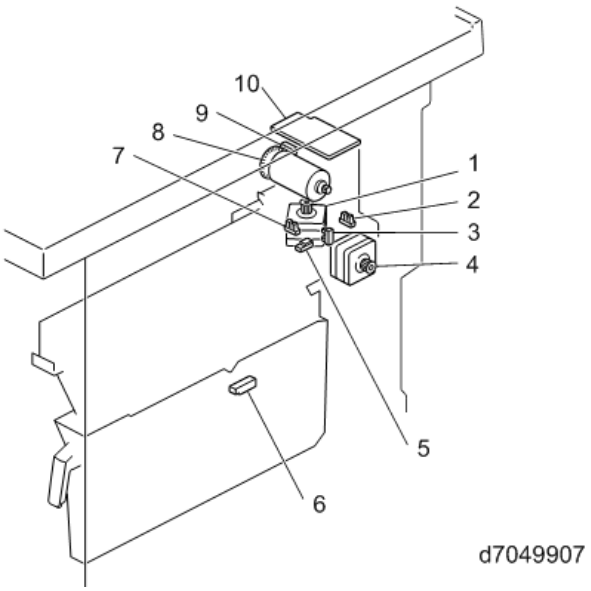
No.	Part	No.	Part
1	Booklet Jogging Pawl Movement Motor	10	Booklet Stapler Unit
2	Shift Roller drive Motor	11	Booklet LED 1
3	Booklet Jogging Pawl HP Sensor	12	Booklet Guide Plate Sensor
4	Booklet Upper Transport Path Stack Sensor	13	Booklet LED 2
5	Booklet Jogger Motor	14	Booklet LED 3
6	Booklet Jogging 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

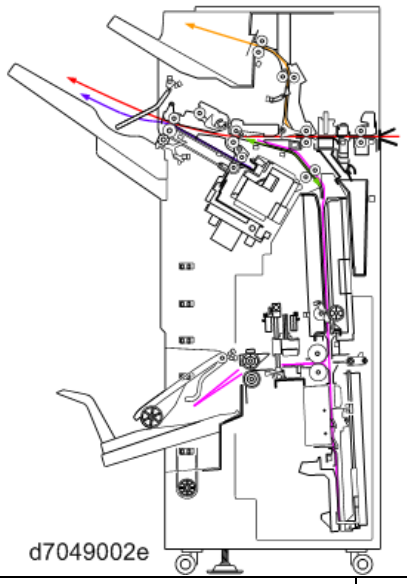
No.	Part
3	Booklet Tray Full Sensor 1
4	Booklet Exit Sensor
5	Fold Plate Cam HP Sensor
6	Fold Transport Motor
7	Press Fold Motor

Punch Unit (Option)



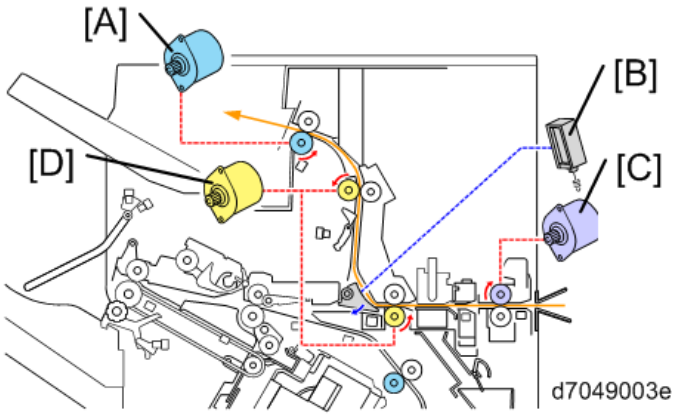
No.	Part
1	Punch Unit Movement Motor
2	Punch Unit HP Sensor
3	Punch Registration HP Sensor
4	Punch Registration Motor
5	Punch Registration Sensor
6	Punchout Hopper Full Sensor
7	Punch HP Sensor
8	Punch Drive Motor
9	Punch Motor Rotation Sensor
10	Punch Unit Controller Board

Transport Layout



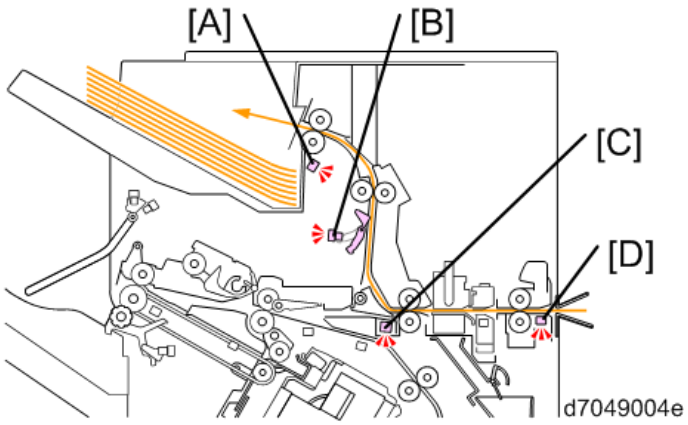
Red	Straight Through Path
Orange	Proof Path
Green	Pre-stack Path
Purple	Corner Staple Path
Pink	Booklet Staple Path

Proof Transport Layout (Drive)



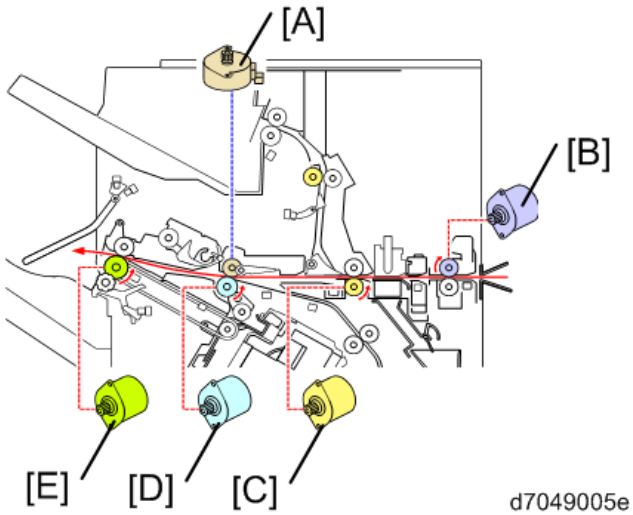
No.	Name	No.	Name
A	Exit Motor	C	Entrance Transport Motor
B	Upper Junction Gate Solenoid	D	Horizontal Transport Motor

Proof Transport Layout (Sensors)



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

Shift Transport Layout (Drive)

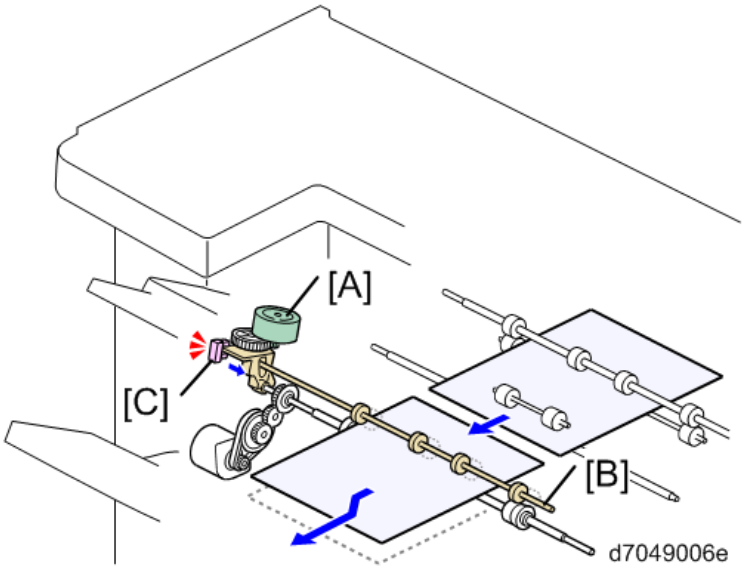


No.	Name	No.	Name
A	Shift Motor (shift only)	D	Transport Motor
B	Entrance Transport Motor	E	Exit Motor
C	Horizontal Transport Motor	-	-

Mechanisms

Shift Transport

To output paper, the shift 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 operation.

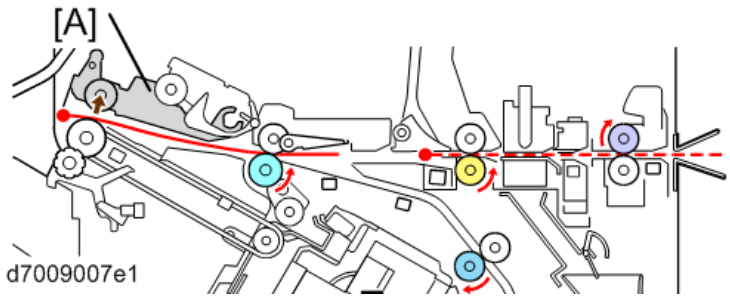


Pre-Stack (Corner Stapling)

- **Pre-Stack Capacity:** 1 sheet
- **Pre-Stack Sizes:** A4 SEF/LEF, B5 SEF/LEF, LT SEF/LEF

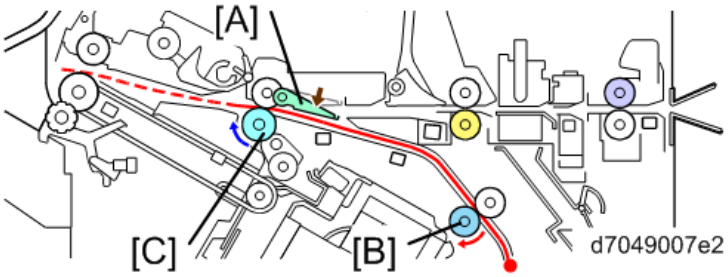
Pre-stack is performed in four steps as follows:

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

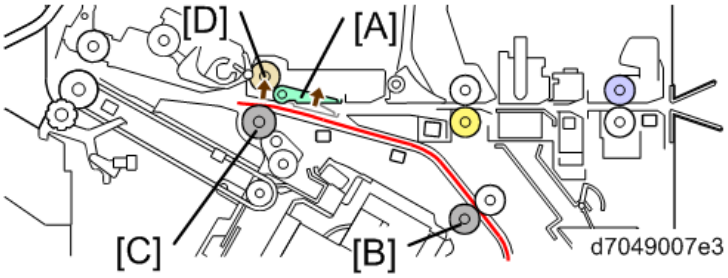


2. After paper passes the pre-stack junction gate [A], the pre-stack junction gate [A] moves down (closes) and the relay transport roller [C] rotates in reverse. The pre-stack roller [B] rotates to

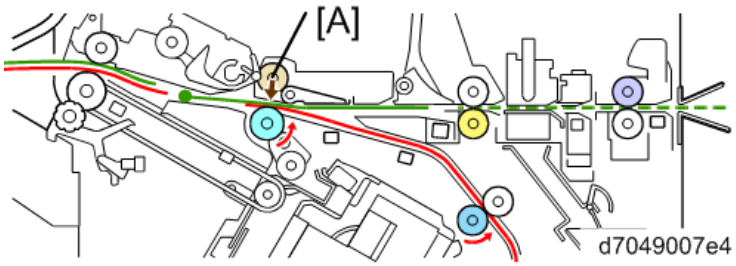
transport paper to the pre-stack position.



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).

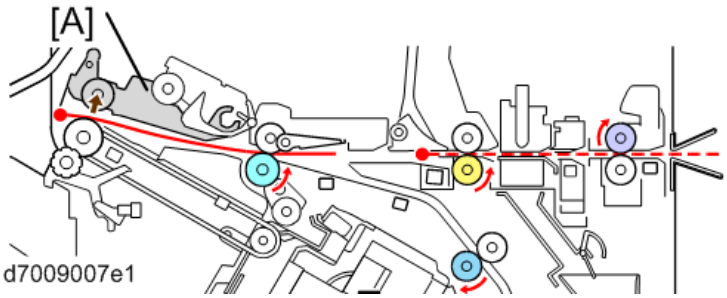


Pre-Stack (Booklet Stapling)

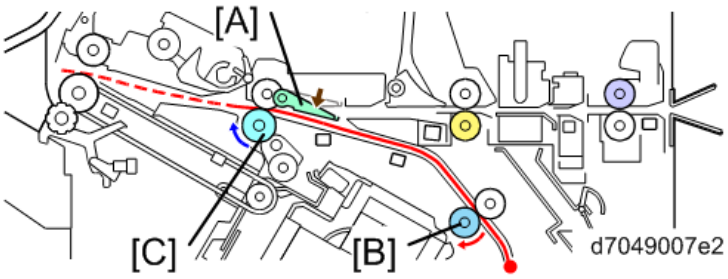
- **Pre-Stack Capacity:** 2 sheets
- **Pre-Stack Sizes:** All Sizes

Pre-stack is performed in five steps as follows:

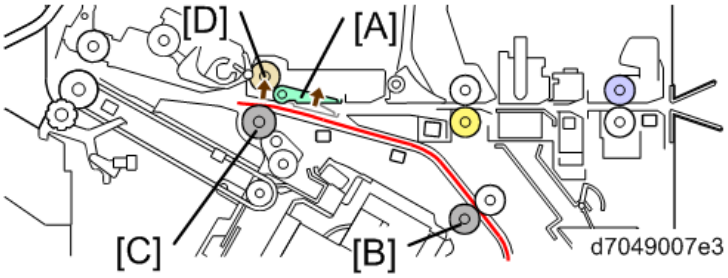
1. The upper tray exit guide plate [A] moves up (opens). Paper comes through the entrance transport path and reaches the relay transport path.



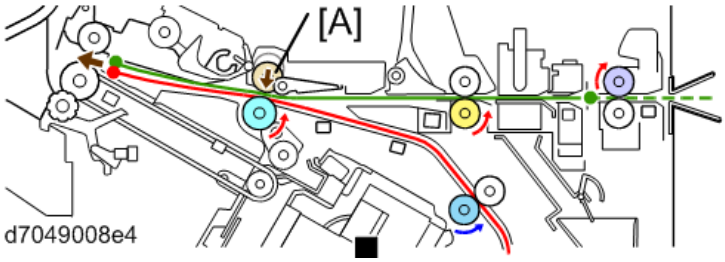
2. The pre-stack junction gate [A] drops (closes) and the relay transport roller [C] rotates in reverse. The pre-stack roller [B] rotates to transport paper to the pre-stack position.



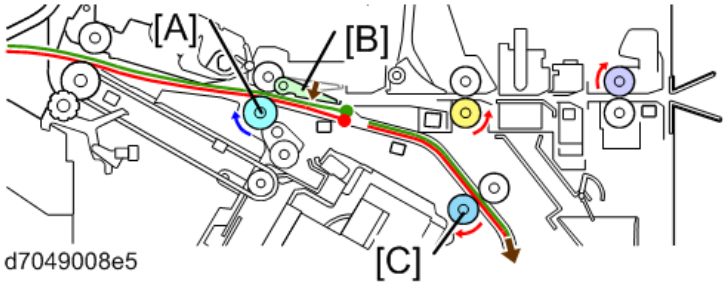
3. The rotation of the relay transport roller [C] and the pre-stack roller [B] stops, and the pre-stack junction gate [A] moves up (opens). The shift roller [D] moves up to release the pressure between itself [D] and the relay transport roller [C].



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. Then with the pre-stacked sheet, the following sheet goes toward the exit (does not pass through completely).



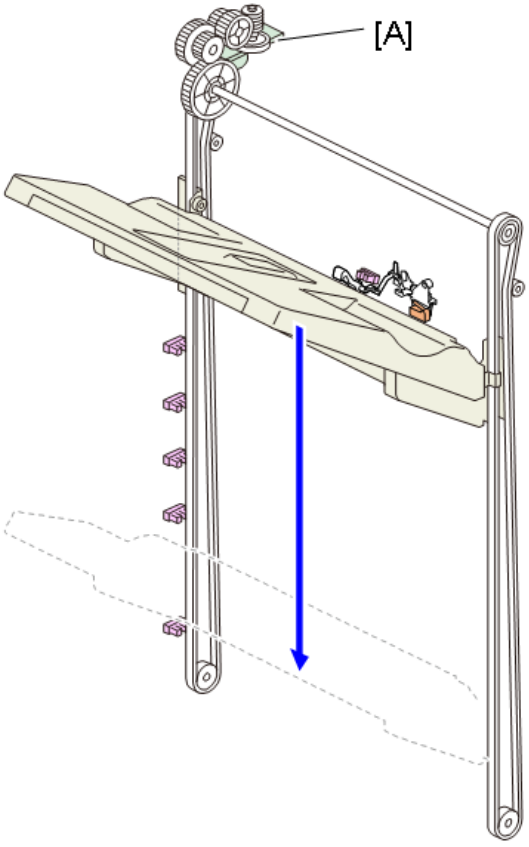
5. The pre-stack junction gate [B] drops (closes) again, and the relay transport roller [A] rotates in reverse and the pre-stack roller [C] rotates to send two sheets paper (pre-stacked sheet and the following sheet) to the booklet stapling path.



Shift Tray Movement/ Paper Height Detection/ Tray Full Detection

Shift Tray Movement

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



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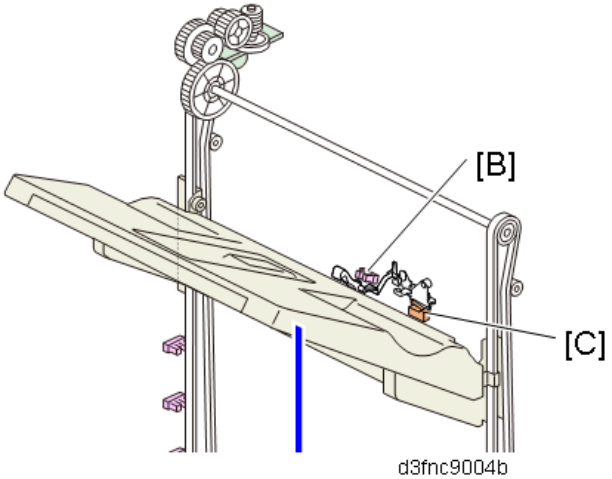
Paper Height Detection

The Shift Tray Paper Height Sensor [B] uses an actuator the rise of the tray (without paper). To prevent the tray from rising too high due to a failure to detect the height, there is an upper tray height limit switch (interlock switch) [C] to force the tray shift motor to a stop.



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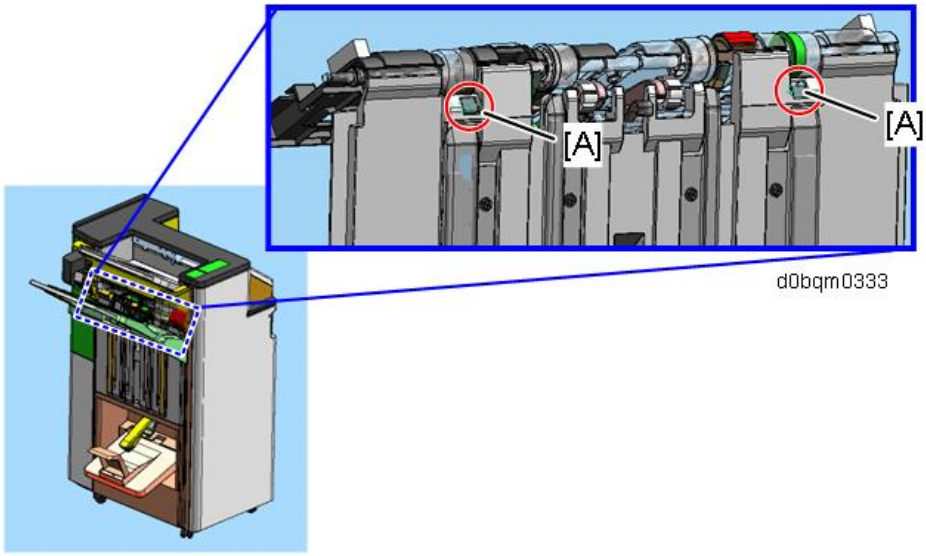
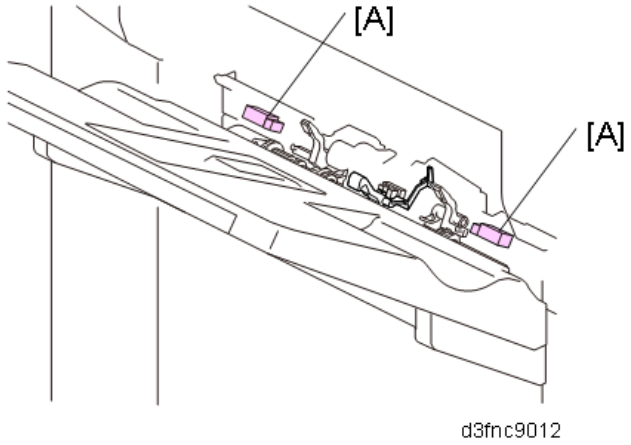
Sub Height Sensors

Two sensors (sub-height sensors [A]) have been added to detect the height of the stapled sheets.



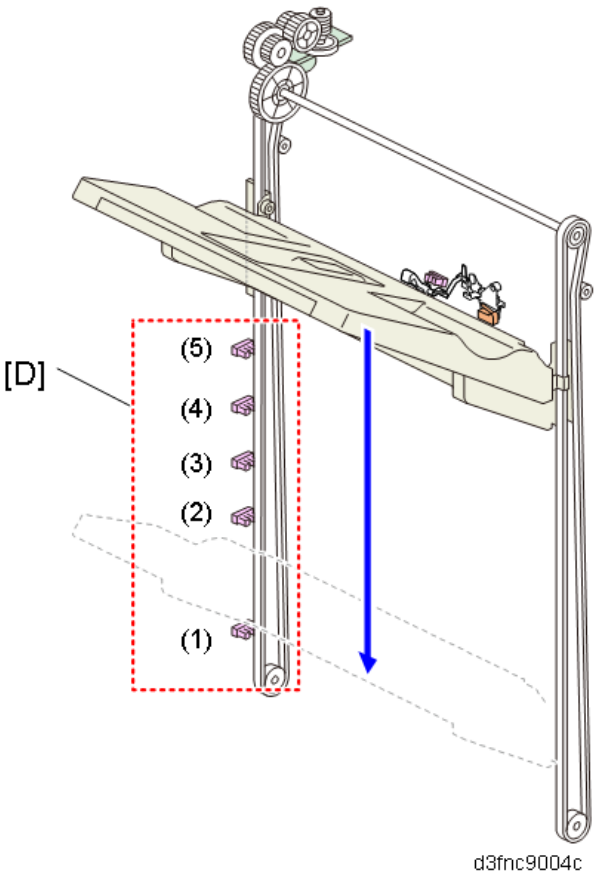


When sheets stapled at one point (corner stapling) are stacked, the sensors prevents the sheets from hitting the paper guide, edge guide, or the next stapled booklet as they are stacked up. When one of the sensors detects the sheets, the machine stops the job in progress.

Tray Full Detection

Condition 1

There are five shift tray lower limit sensors [D] on the rear side of the machine.



Booklet Finisher SR5100

Number of Sheets	Detected By	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 SR5090

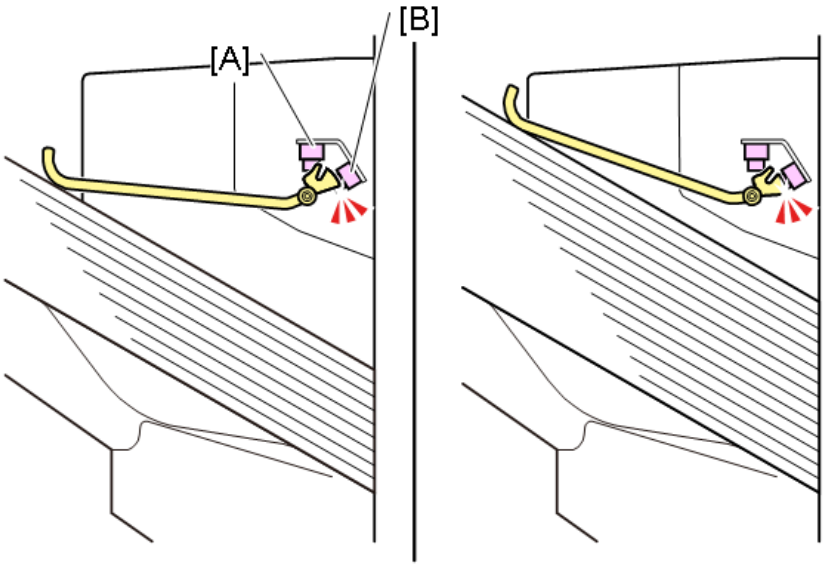
Number of Sheets	Detected By	Paper Size	Length
500 sheets	Shift Tray Lower Limit Sensor 5	A5 SEF, A5 LEF, B6 SEF, HLT SEF, A6 SEF	148 to 182 mm
1,500 sheets	Shift Tray Lower Limit Sensor 3	A3 SEF, A4 SEF, B4 SEF, B5 SEF, B5 LEF, DLT SEF, LG SEF, LT SEF, 12"x18" SEF, SRA3 SEF, 13"x19.2" SEF	182 to 488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

Condition 2

The feeler is raised.

- Booklet Stack Height Sensor 1 (S26) [A] (SP6-123-036 INPUT Check) : OFF
- Booklet Stack Height Sensor 2 (S27) [B] (SP6-123-037 INPUT Check) : ON

If the feeler remains up for 13 seconds, the machine deems that the stacking limit has been reached. This is meant for the correct detection of tray full for stacking Z-folded paper, or for incorrectly stacked documents.



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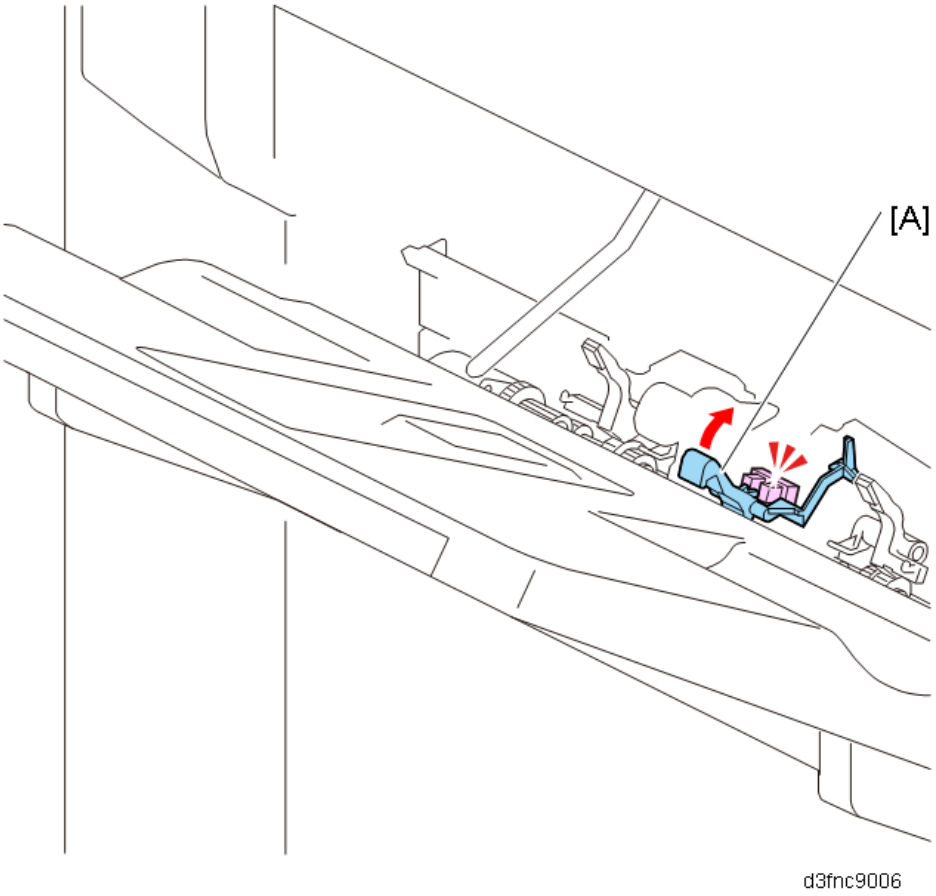
Condition 3

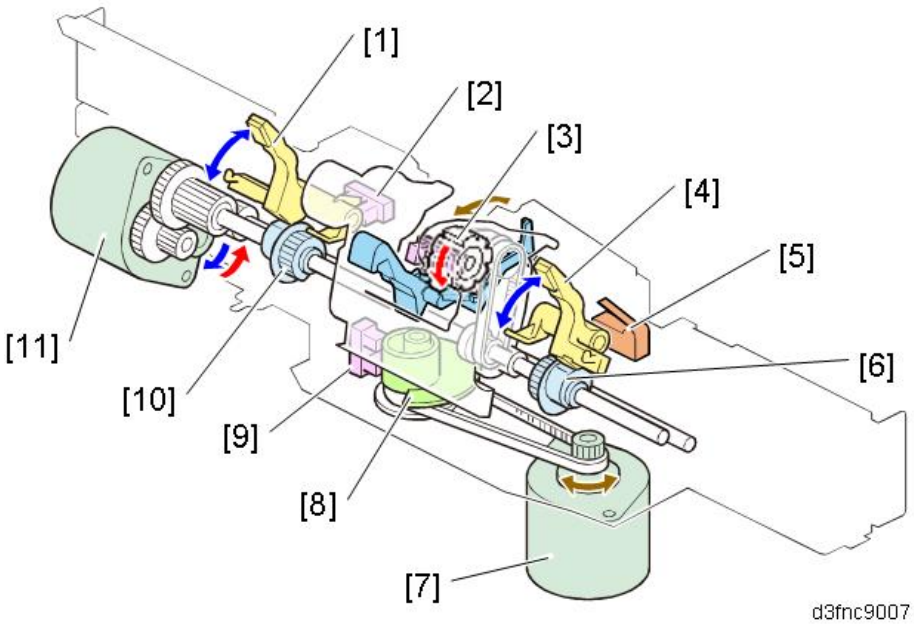
By default, INPUT Check SP6-123-035 (Paper Height Sensor: Shift) is set to "0".

[A]: Shift Tray Paper Height Sensor



Pull-in Roller/ Paper Stack Holder

Components



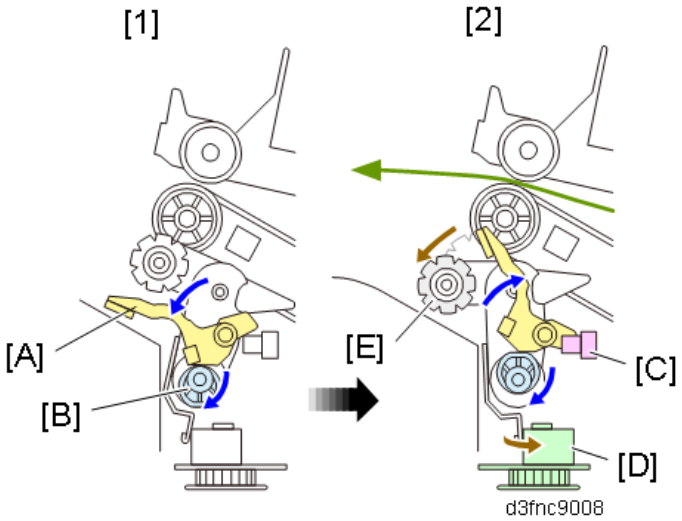
No.	Name	No.	Name
1	Paper Stacking Holder	7	Paper Stacking Holder Lift Motor

No.	Name	No.	Name
2	Paper Stacking Holder HP Sensor	8	Stacking Sponge Roller Cam
3	Stacking Sponge Roller	9	Stacking Sponge Roller HP Sensor
4	Paper Stacking Holder	10	Paper Stacking Holder Cam
5	Upper Tray Height Limit Switch (Interlock Switch)	11	Paper Stacking Holder Motor)
6	Paper Stacking Holder Cam	-	-

Stacking

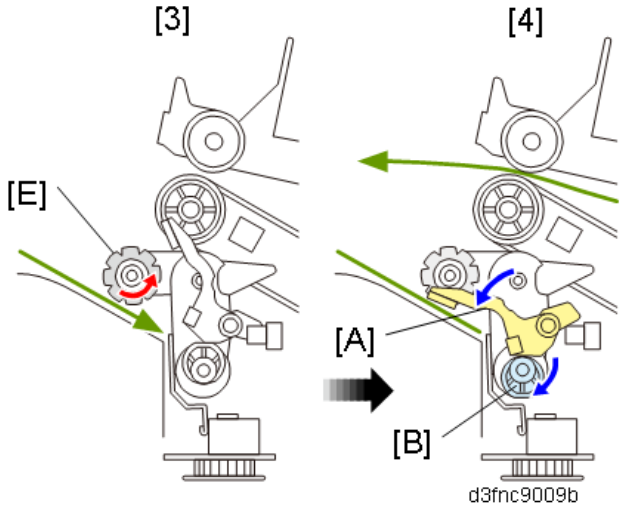
Paper stack holding is done in a five-step operation.

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 paper stacking holder lift motor [D] rotates the stacking sponge roller cam 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 home position, until the paper stacking holder interrupts the paper stacking holder HP sensor [C].

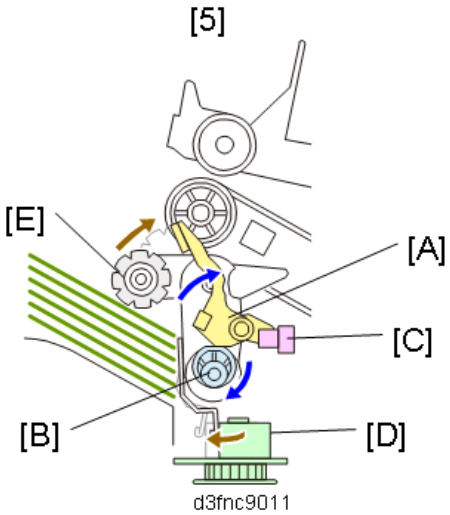


3. The paper stacking holder motor drives in reverse to let the stacking sponge roller [A] pull the output paper in.
4. The paper stacking holder motor rotates the paper stacking holder cam [C] to drop the paper

stacking holder [B] (until job end, the machine repeats Steps 3 and 4).

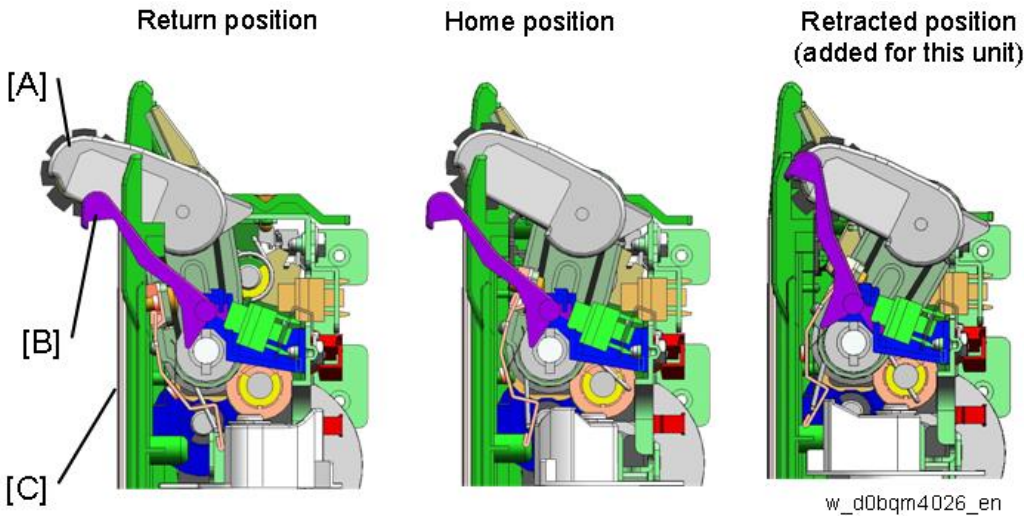


5. After job end, the paper stacking holder lift motor rotates the stacking sponge roller cam [D] to lift the stacking sponge roller [A] up to its home position. At the same time, the paper stacking holder motor rotates the holder cam [E] to lift the paper stacking holder [B] up to its home position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



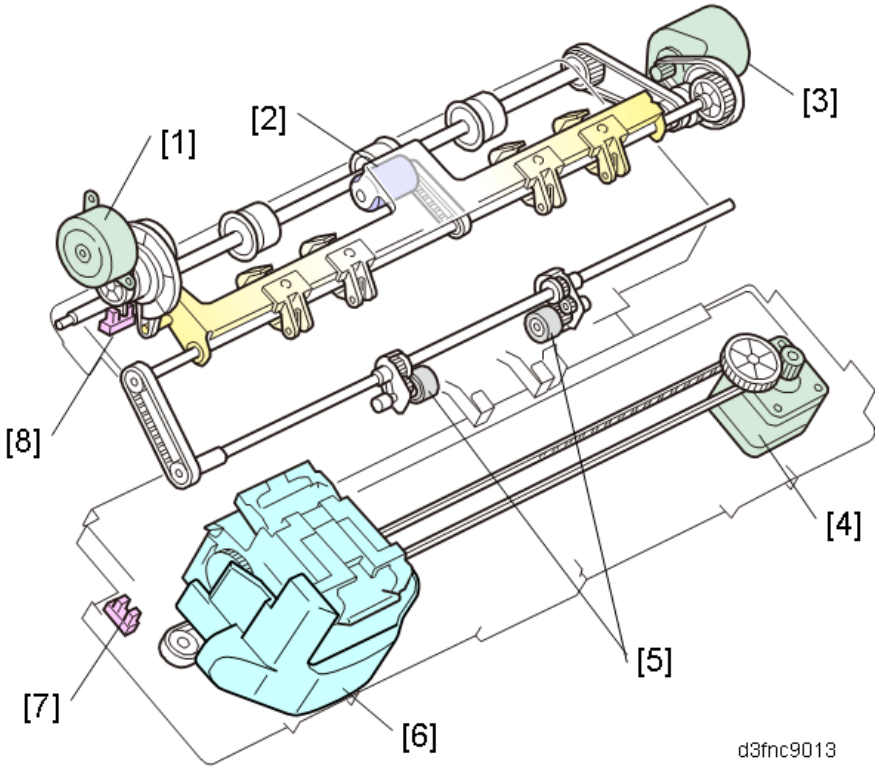
In Staple Mode

On this machine, the stacking sponge roller [A] and actuator [B] are completely retracted within the end fence [C] when delivering a staple job. This improves the stackability of stapled sheets.

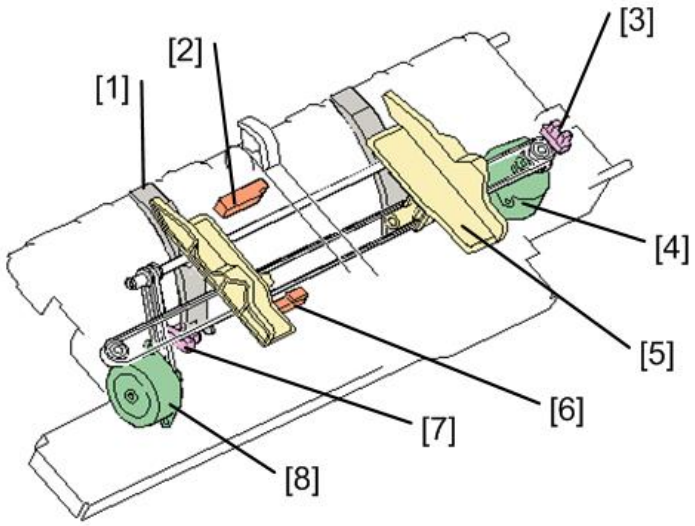


Corner Stapling

Components



No.	Name	No.	Name
1	Positioning Roller Shift Motor	5	Drag Roller
2	Positioning Roller	6	Stapler
3	Exit Motor	7	Stapler Move HP Sensor
4	Corner Stapler Movement Motor	8	Positioning Roller HP Sensor



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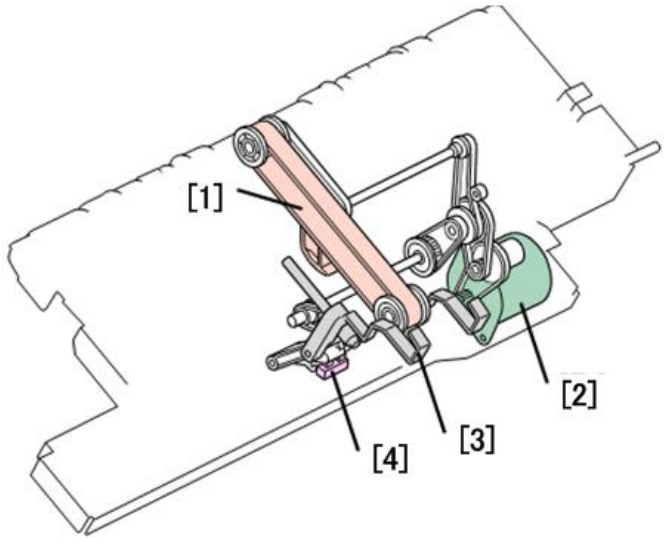
No.	Name	No.	Name
1	Edge Guide	5	Jogger Fence
2	Upper Tray Exit Sensor	6	Staple Tray Paper Sensor
3	Jogger Fence HP Sensor	7	Leading Edge Guide HP Sensor
4	Jogger Motor	8	Leading Edge Guide Motor



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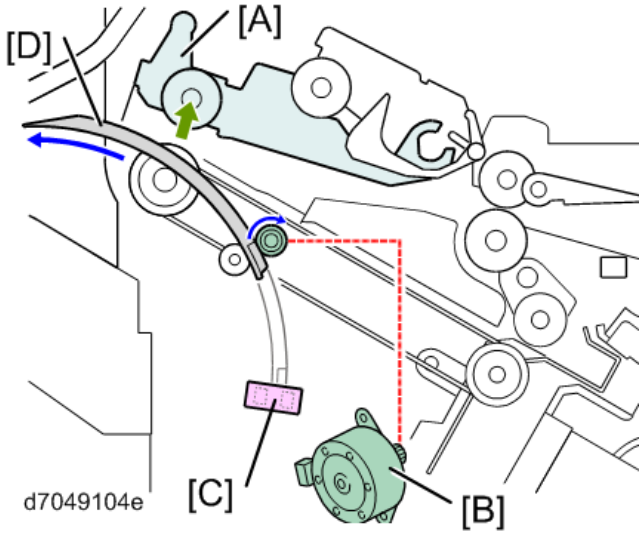
No.	Name	No.	Name
1	Feed-out Belt (with stack feed-out pawl)	3	Trailing Edge Fence
2	Feed-out Belt Motor	4	Feed-out Belt HP Sensor

Edge Guide

The paper is stapled in the corner with a part of it protruding from the paper exit. The edge guide [D] prevents the paper stack from dropping out onto the tray. The edge guide operates as follows:

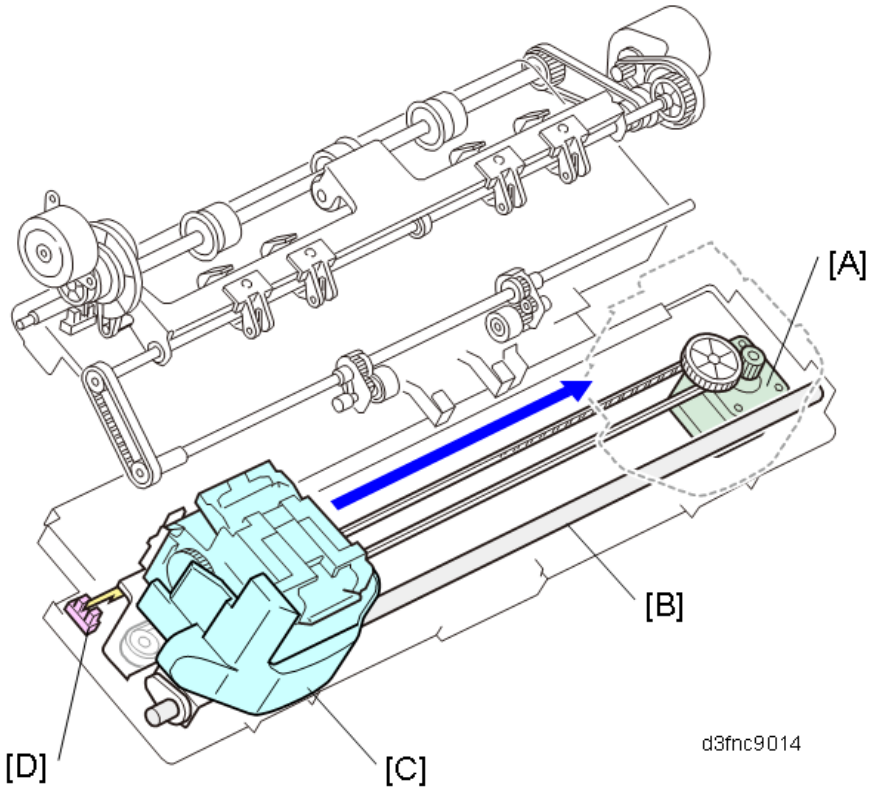
1. When a job starts, the upper tray guide plate [A] moves up.
2. The leading edge guide motor [B] drives to push the edge guide [D] out. The edge guide retreats

into the machine when the last sheet of a job is output (the leading edge guide HP sensor [C] detects the edge guide).



Stapler Movement

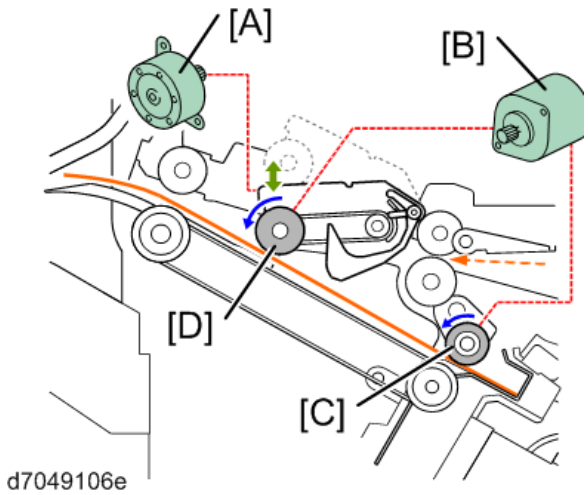
The corner stapler movement motor [A] moves the stapler [C] along the guide rod [B]. After a job finishes, the stapler [C] returns to its HP (the stapler move HP sensor [D] detects the base of the stapler).



Positioning Roller/ Drag Roller

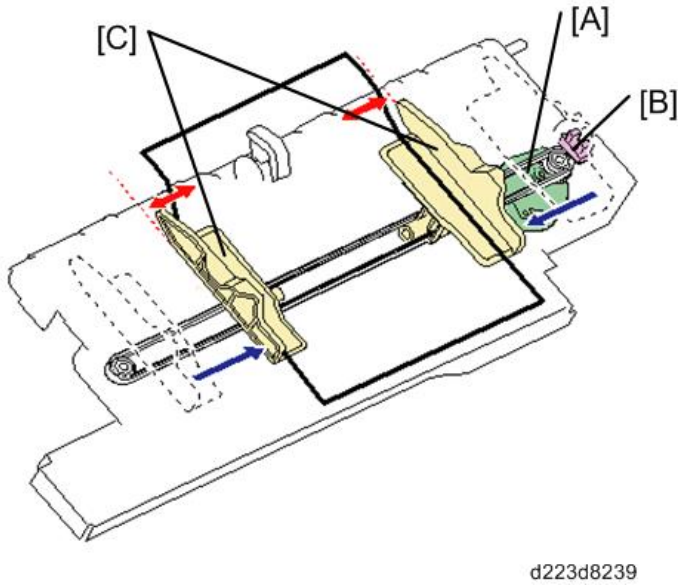
The positioning roller and drag roller operate as follows:

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 waits for the first sheet. As each sheet enters, the jogger fences push the sheet 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.

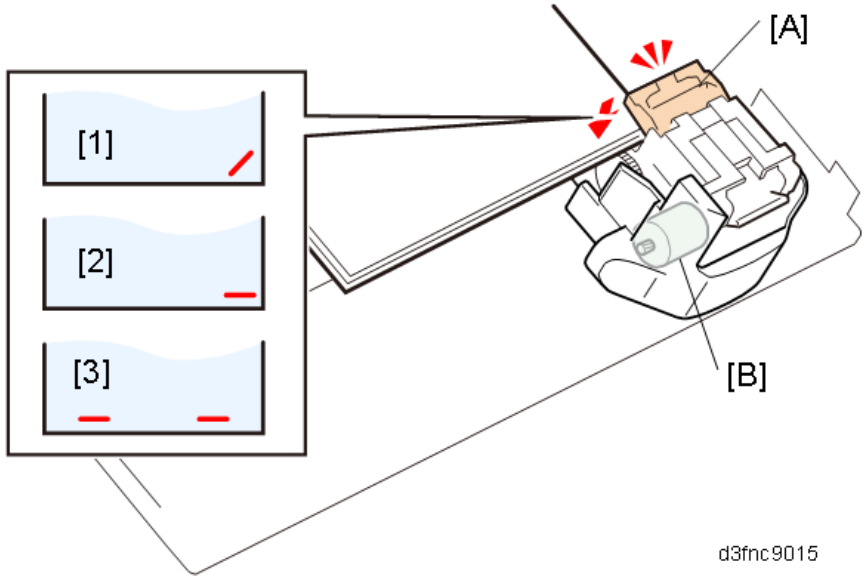


Stapling

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

- **Diagonal Staple** [1]

- **Horizontal Staple** [2]
- **Horizontal Staples at 2 points** [3]



Feeding-Out

The trailing edge fence [B] moves paper to the correct position for output. The stack feed-out pawl [A] that is attached to the stack feed-out belt [C] then pushes the paper out. The feed-out belt motor [D] drives the stack feed-out pawl [A] and the trailing edge fence [B]. After a paper stack is output, both the trailing edge fence [B] and stack feed-out pawl [A] return to their home positions.

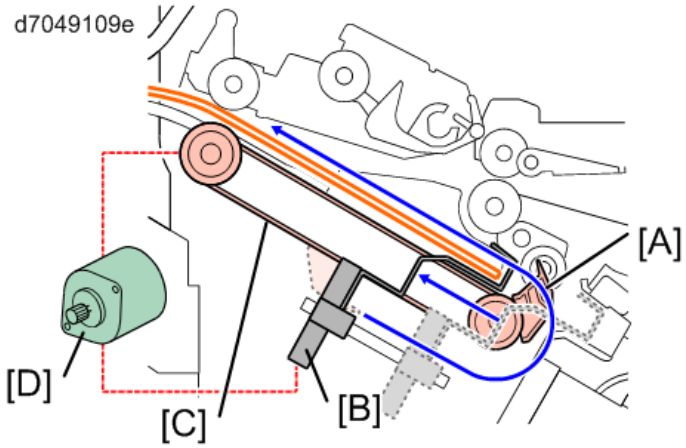
There are two ways of feeding out paper.

1. By pawl, exit roller
   This is for small size vertical output (A4, LT, B4 SEF).
   Paper is fed out as described above.
2. By exit roller
   This is for horizontal output of A4, LT, B5 LEF
   Only the exit roller is used, without using the trailing edge fence and the stack feed-out pawl.

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

- 1 to 10 sheets: feed out by exit roller exit

- More than 11 sheets: feed out using pawl and exit roller



Staple Near-End Detection

This finisher has staple near-end detection.

The finisher software counts the number of staples used. When the number of remaining staples drops below the near-end threshold, a Near-End notification is sent to the machine and a banner prompting staple replenishment appears on the display of the operation panel.

You can check the remaining number of staples in [Mach./Applic. Stat] tab on the [Check Status] screen.

Staple Use Counter

- The staple use counter in the EEPROM counts the number of staples used. (Its initial value is 0.)
- After the counter has detected that the staples have run out (End), it is reset when it detects staples (= replenished).
- Staples used in the End status are not counted.

Number of Remaining Staples [Maximum number - Counted Number of Staples Used]

The remaining number of staples is logged in SP6-795-002 / SP6-796-002 (Staple N.E. Setting: Staple Remaining Setting). You can also change the remaining number of staples on this counter by changing the value.

Near-End Threshold

The near-end threshold can be changed in SP6-795-001 / SP6-796-001 (Staple N.E. Setting: Near-End Threshold). Depending on the model, the initial value is as follows:

- SR5090/SR5100: 800 corner staples and 300 booklet staples
- SR3270: 500 staples to be used for both corner and booklet stapling
- SR3260: 500 corner staples

Control

If the remaining number of staples (SP6-795-002/SP6-796-002) drops below the near-end threshold,

the near-end status is notified to the machine.

To correctly count the actual remaining number of staples, instruct the customer to do as follows:

- Replace the cartridge after the staples have completely run out (End).
- Replace the cartridge with the machine's power on (so that the device status can be monitored).

What if the counter does not match the actual remaining number of staples?

- After replacing the cartridge, set SP6-795-002 / SP6-796-002 (Staple N.E. Setting: Staple Remaining Setting) to the maximum value.
- If some degree of mismatch is tolerable, change the value according to the estimated number of remaining staples in the new cartridge.

Automatic Counter Reset

After reaching the near-end status, if the staples do not run out (End) even after the number of staples used exceeds 1.5 times that of the specified number of staples in the near-end status, the counter is automatically reset according to the determination that the staples have been replaced. The automatic counter reset function can be set on/off on the corresponding SP.

SP6-796-003/007 (Staple N.E. Setting: Anomaly Near-End Disp. Clear Setting)

0: Reset

1: Do not reset

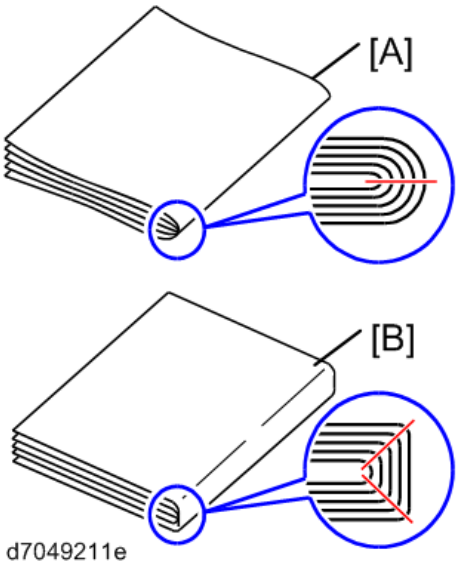
Saddle Stitching (Booklet Stapling)

New Type of Saddle Stitching

Compared to the standard center stapling, the type done by this finisher can reduce the bulge at the center of the booklet.

[A] Standard saddle stitching

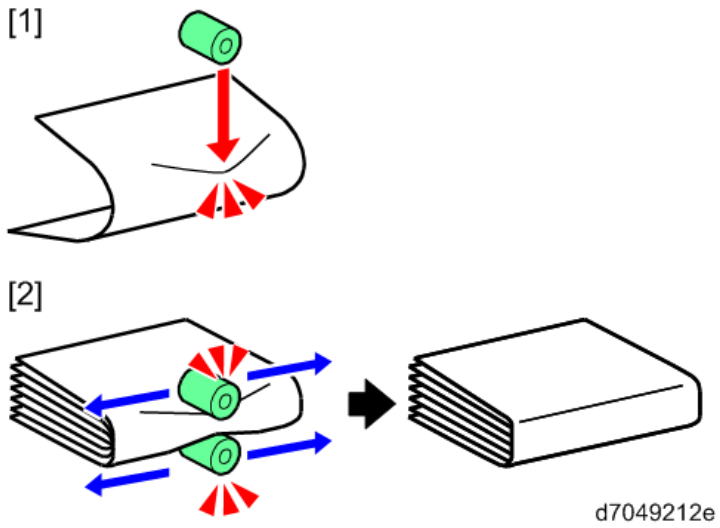
[B] Saddle stitching by this finisher



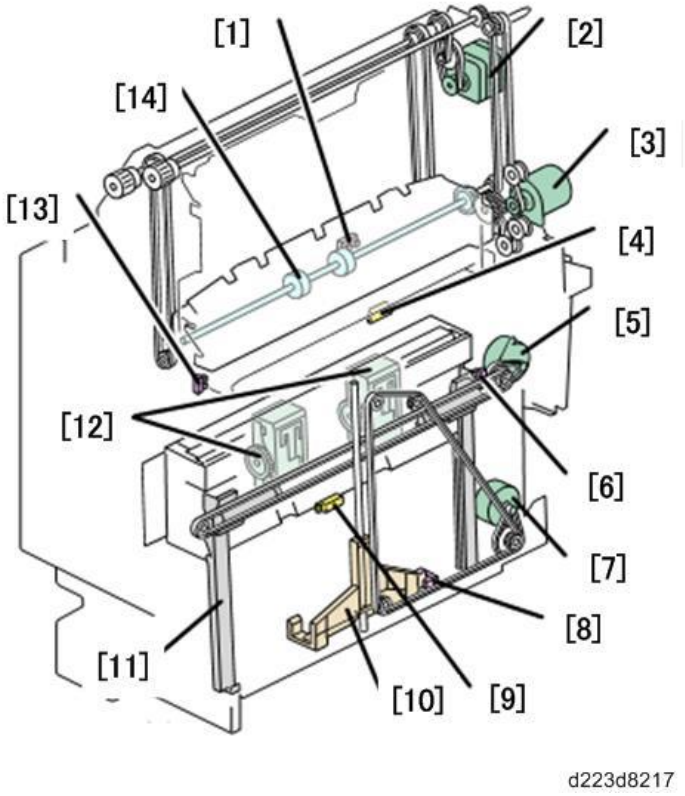
Saddle Stitching with This Finisher

Previously, strong pressure had to be applied in order to shape the saddle; this could only be possible if the finisher is big. This finisher uses the method below to make a saddle without having to be large in size.

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.

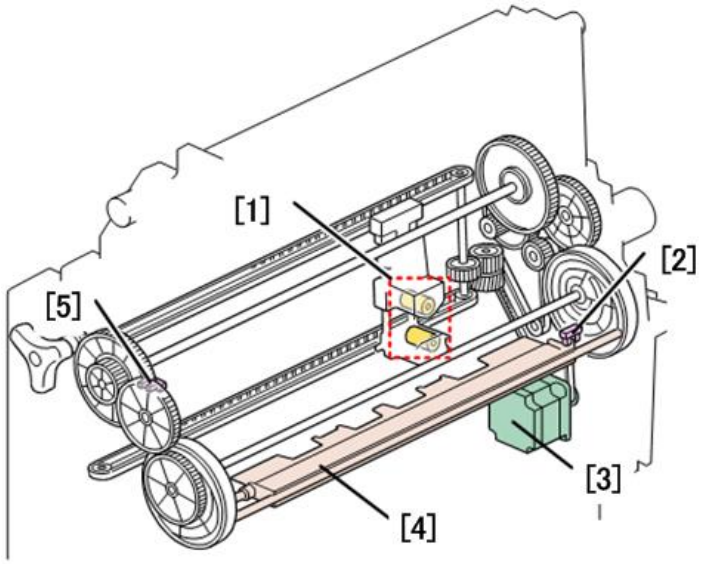


Components



1.Detailed Descriptions

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



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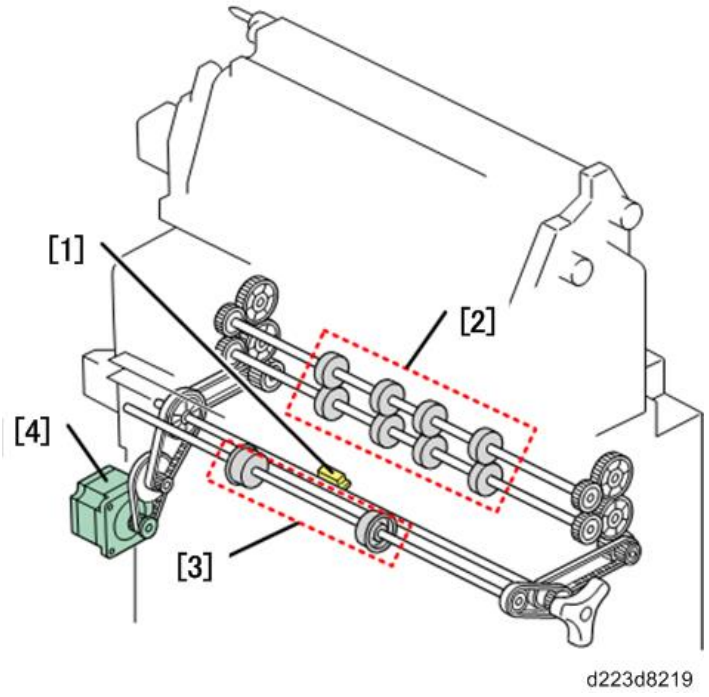
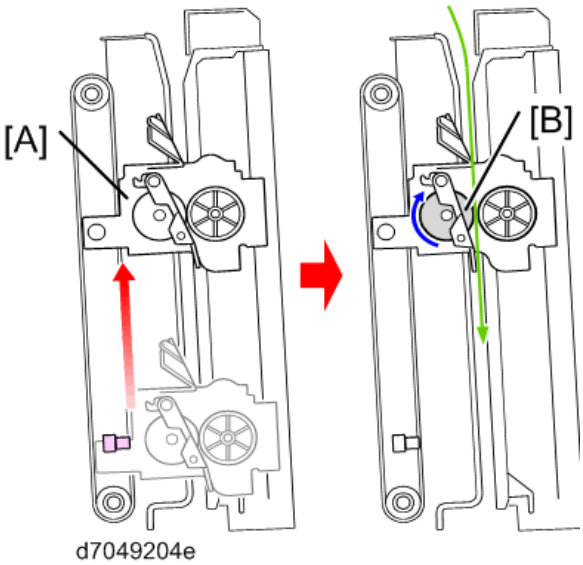
No.	Name	No.	Name
1	Side-to-side Shift Fold Roller	4	Fold Plate
2	Fold Plate HP Sensor (S1)	5	Fold Plate Cam HP Sensor (S9)
3	Press Fold Motor (STM10)		



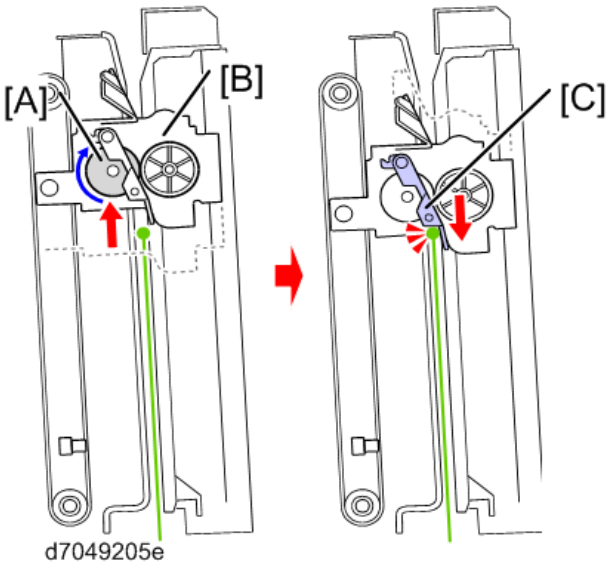
No.	Name	No.	Name
1	Booklet Exit Sensor	3	Fold Unit Exit Roller
2	Fold Roller	4	Fold Transport Motor

Booklet Staple Transport

As paper goes 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.

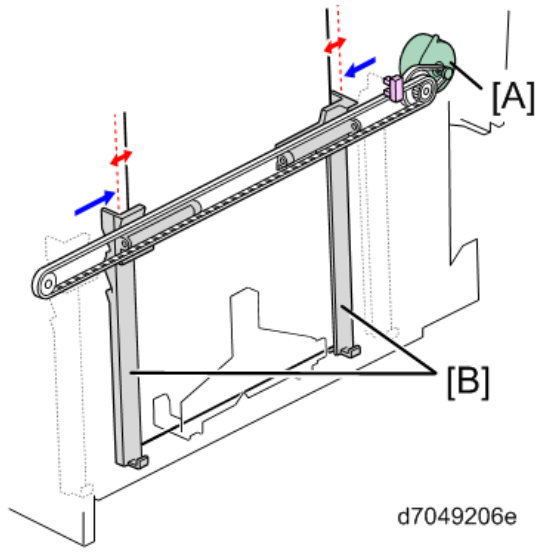


After the paper is transported, the shift roller unit [B] moves up away from the paper face. While the shift roller unit moves up, the shift roller [A] rotates to feed paper out to the bottom. Then the shift roller unit drops to bump the stack junction gate [C] onto the edge of the paper stack. With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



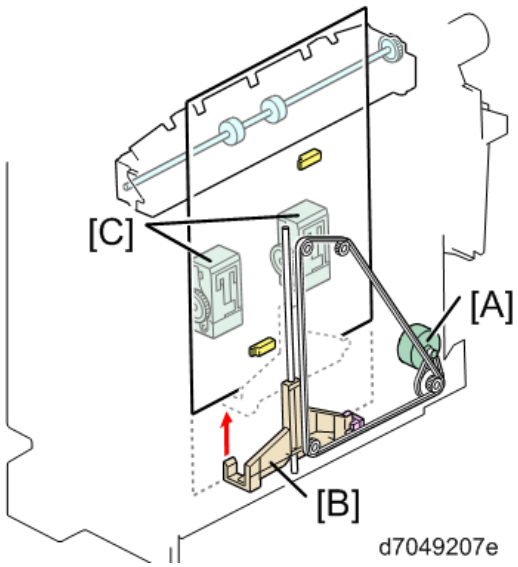
Jogger

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

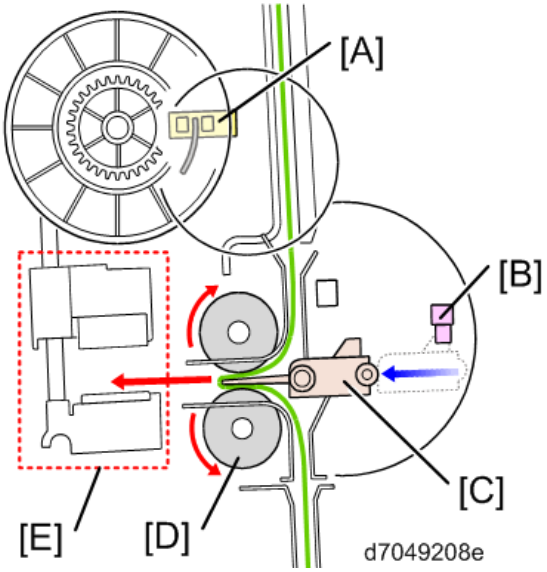


Center Folding and Saddle Shaping

The fold plate [C] center inserts the stack between the rollers [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 unit [E] so that they move together.

[A]: Fold Plate Cam HP Sensor

[B]: Fold Plate HP Sensor



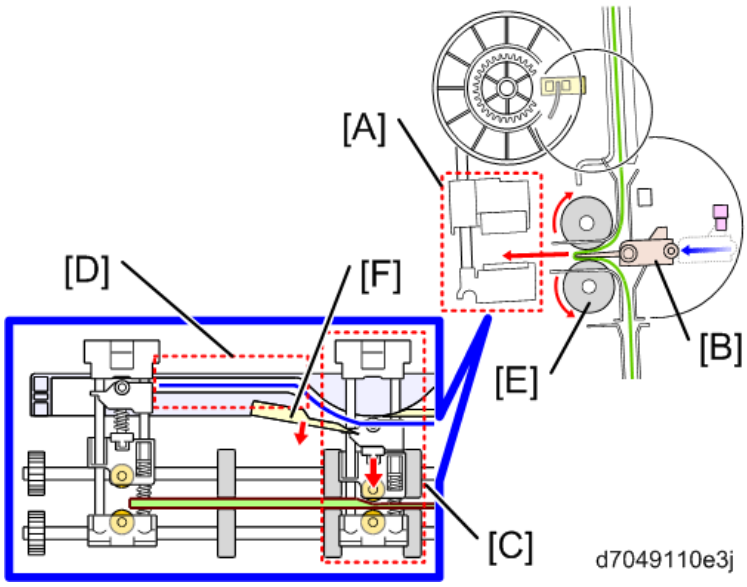
Center Folding and Saddle Shaping

Stack folding and saddle shaping is explained below.

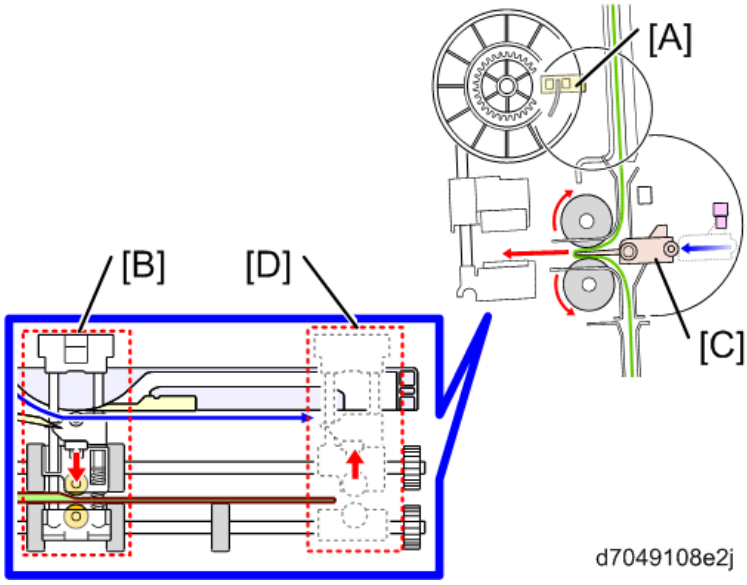
For saddle shaping only, see Saddle Shaping.

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, the fold plate [B] pushes the center of the stack completely between the fold rollers. The upper part of the fold roller unit slides down onto the lower path while pushing out switch plate 1 [F], . The top of the side-to-side roller unit is then lowered to press in

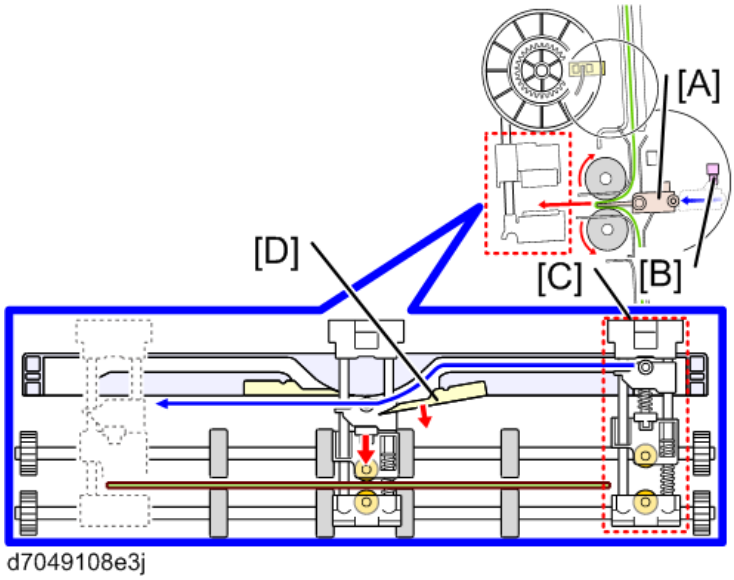
the center of the stack, using pressure from a large spring. Center folding begins when the fold plate [B] pushes into the center of the stack.



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 the fold plate cam HP Sensor [A] goes on twice (the cam rotated twice), saddle shaping is half finished, and the fold roller unit is at position [D]. 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 plate HP sensor [B].



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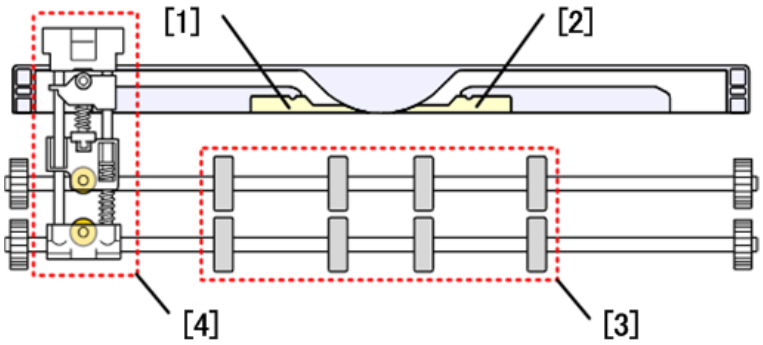
Saddle Shaping



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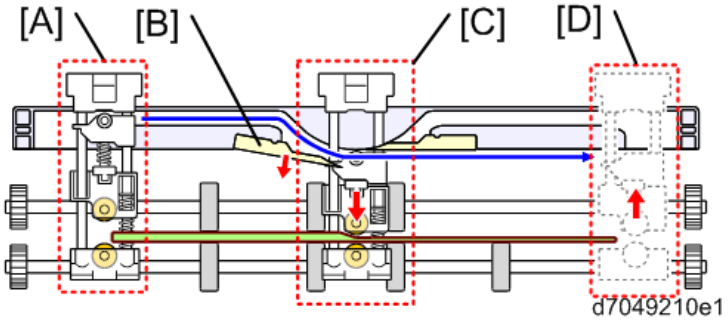
No.	Name	No.	Name
1	Guide Plate	3	Fold Transport Roller
2	Guide Plate 2	4	Side-to-Side Fold Roller Unit

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.



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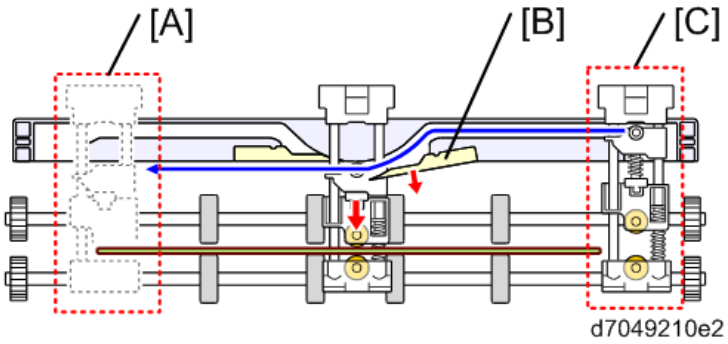
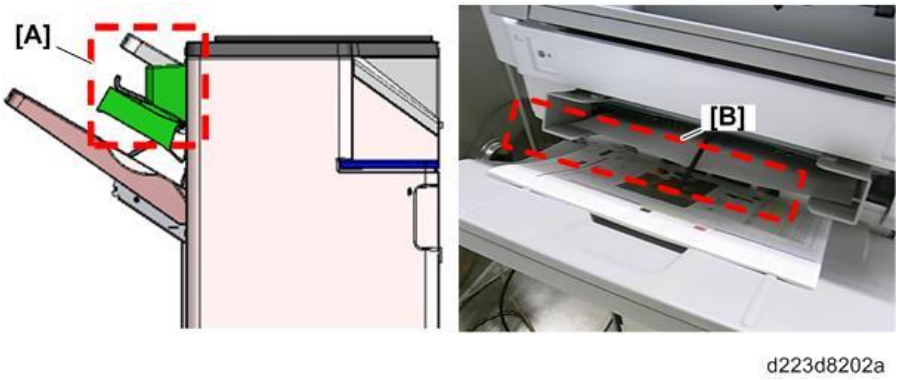
The press fold motor reverses, and the unit increases pressure on the stack as it moves and applies creasing on the remainder of the saddle shape as it moves from [C] to [A].
When the top of the side-to-side fold unit reaches the side-to-side fold unit HP sensor, the unit ascends to the upper path and 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.



Related SPs

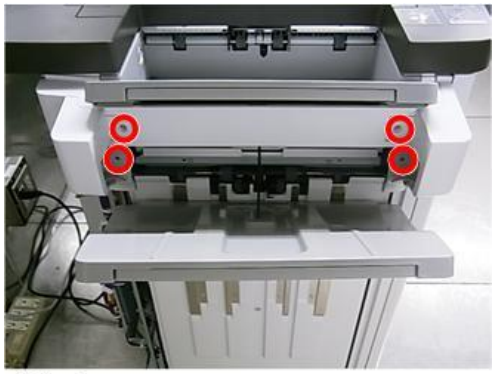
Cannot be used for shift tray paper exit, saddle stitched booklets, and large paper sizes (300 mm and above)

- 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.)

d223d8203

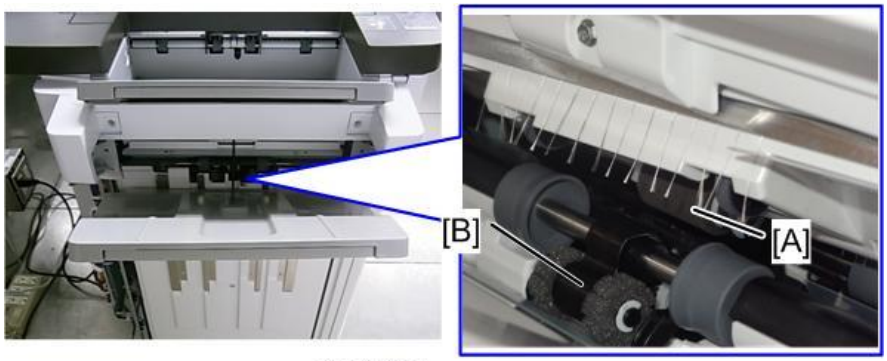


x4 d223d8204

SP6-160-004 (Replacement Mode for Service)

It is easier to access the following parts by executing 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.
- Stacking Sponge Roller [B]
  The paper exit guide plate moves upwards and the reverse roller can be accessed.



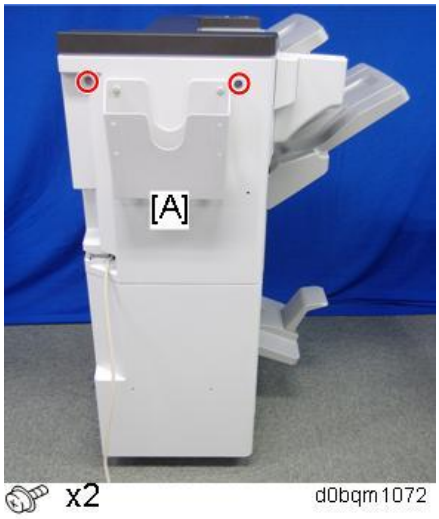
d238m1384

2. Replacement and Adjustment

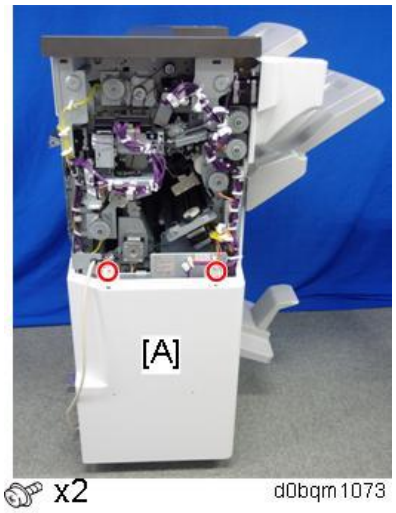
Covers

Rear Upper Cover, Rear Lower Cover

1. Remove the rear upper cover [A].



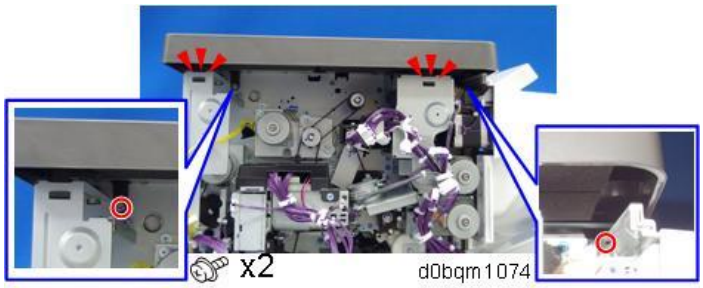
2. Remove the rear lower cover [A].



Upper Cover

1. Remove the rear upper cover. (Rear Upper Cover, Rear Lower Cover)

2. Remove the 2 screws and release the 2 hooks.



3. Open the front cover [A] and remove the 2 screws.

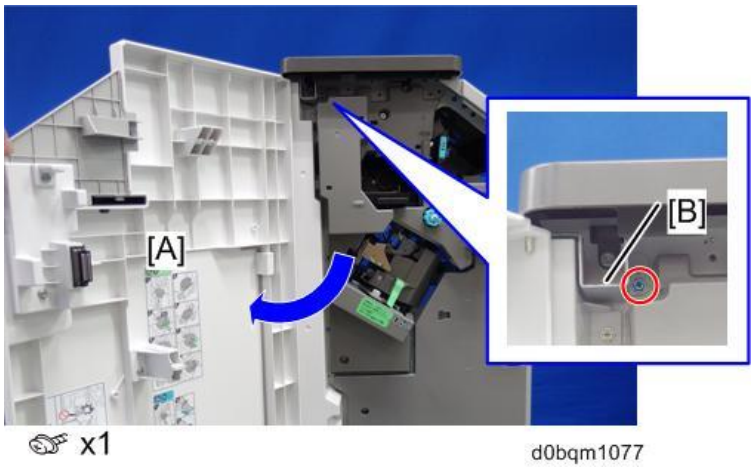
4. Remove the upper cover [A].

Note

- When you detach or reattach the upper cover, be sure to check the locations of the hooks on the cover.

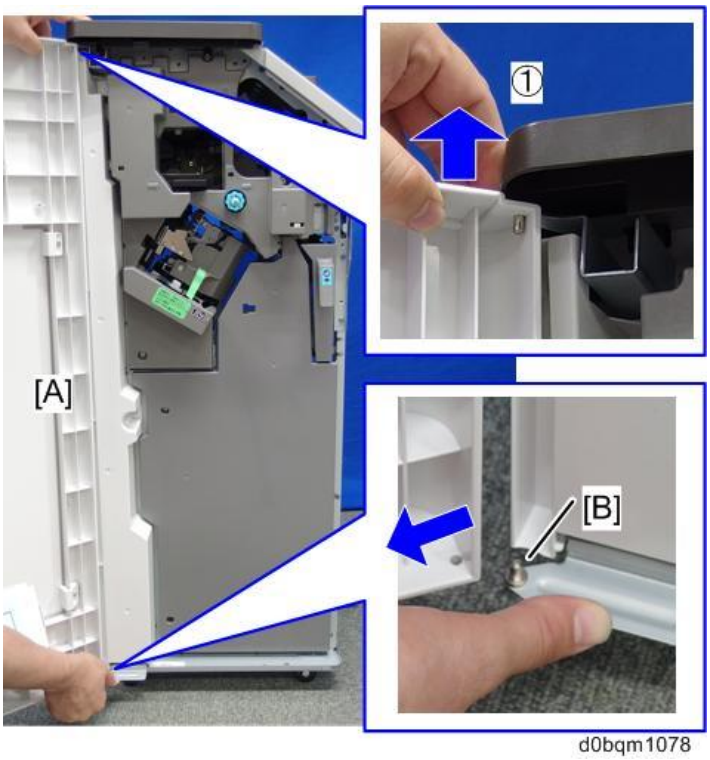
Front Cover

1. Open the front door [A], and then remove the screw fixing the bracket [B].



2. Remove the front door [A].

1. Holding the hinge at the upper part of the cover, raise the edge of the upper cover.
2. Pull out the cover from the pin [B] at the bottom.

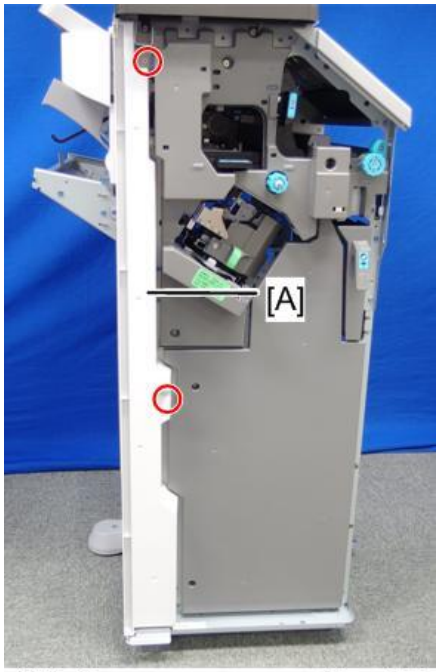


Front Left Side Cover

1. Remove the front cover. (Front Cover)

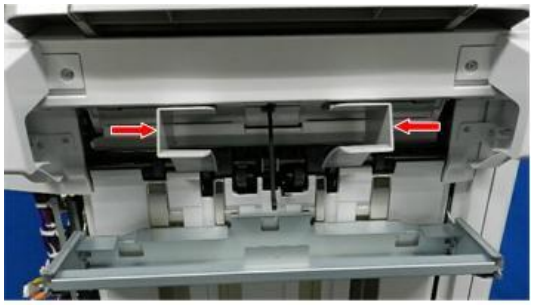
2. Remove the paper guide cover. (Paper Guide Cover)

3. Remove the front left side cover [A].

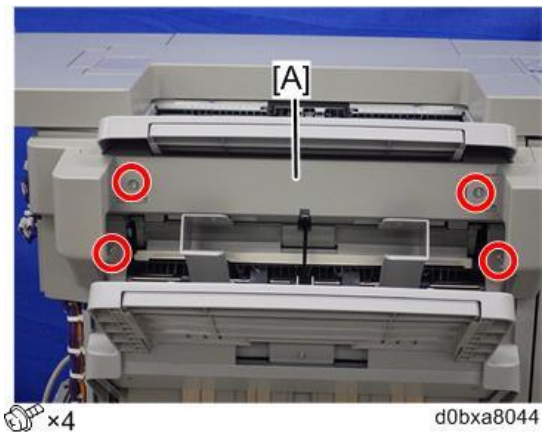


Paper Guide Cover

1. Remove the rear upper cover. (Rear Upper Cover, Rear Lower Cover)
2. Push the guides in to the center.

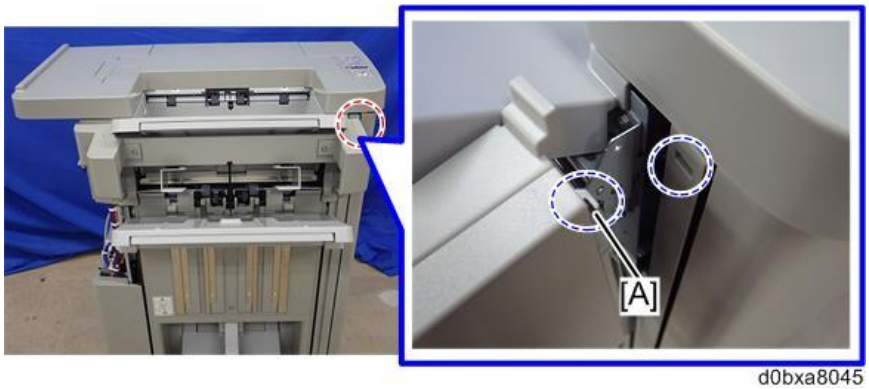


3. Remove the paper guide cover [A].



Note

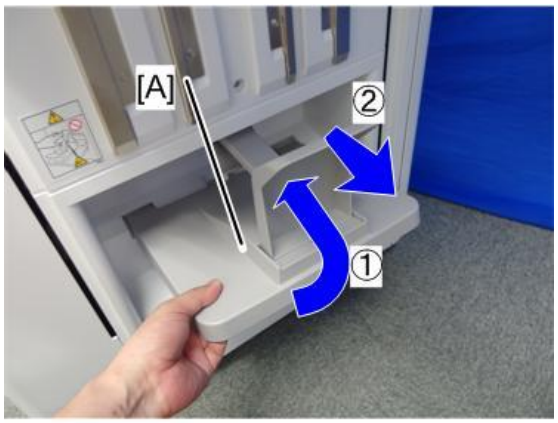
Remove the hook [A] at the right side.



d0bxa8045

Lower Tray

1. Remove the lower tray [A].



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Proof Tray

1. Remove the following covers.
   - Upper cover (Rear Upper Cover, Rear Lower Cover)
   - Paper guide cover (Paper Guide Cover)

2. Remove the proof tray [A].

d0bqm1080

Shift Tray (Upper Tray)

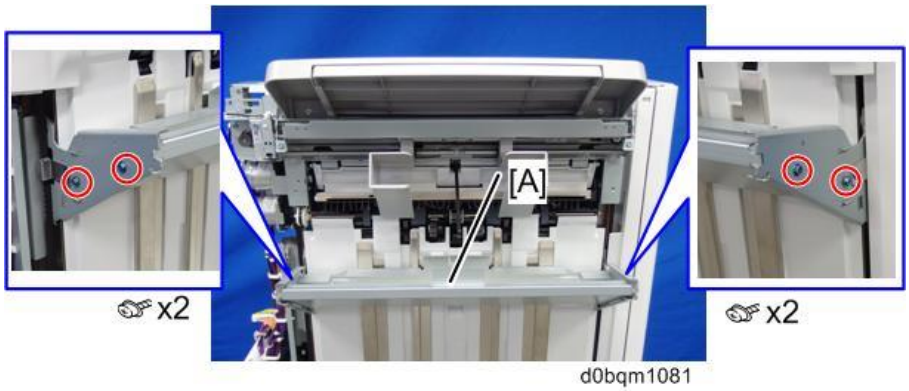
1. Remove the shift tray [A].

x1 d0bqm1085

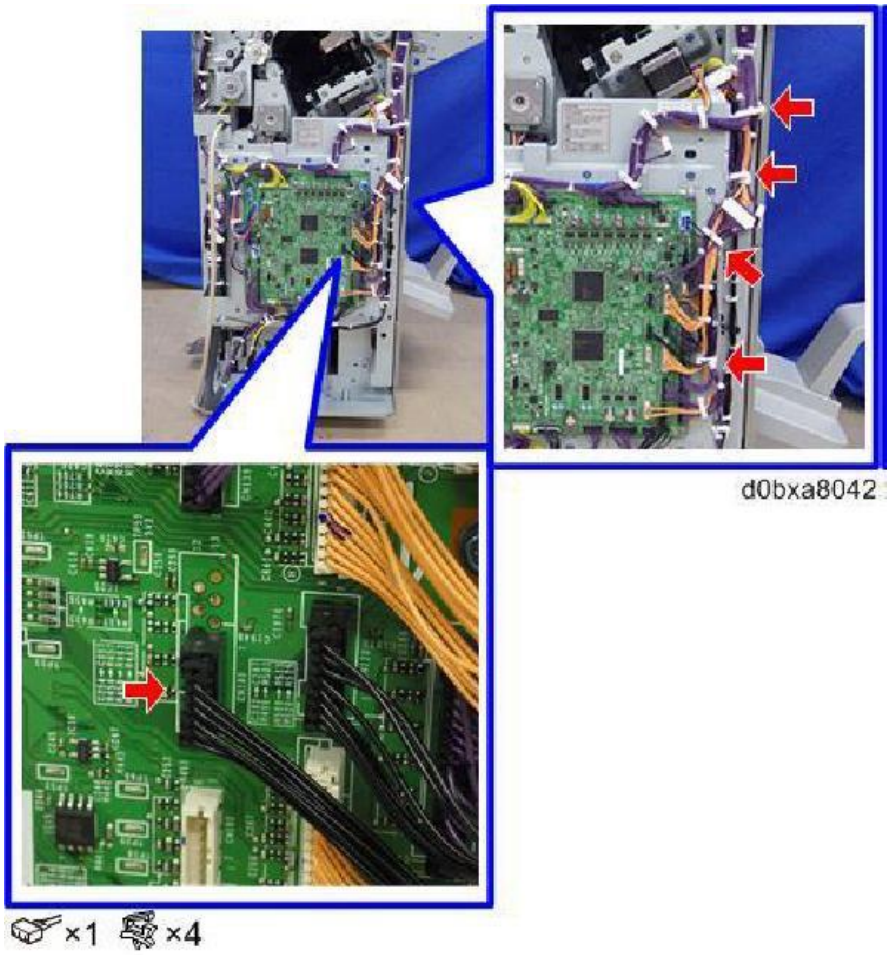
End Fence

1. Remove the rear lower cover (Finisher SR5090 only). (Rear Upper Cover, Rear Lower Cover)
2. Remove the paper guide cover. (Paper Guide Cover)
3. Remove the shift tray. (Shift Tray (Upper Tray))

4. Remove the shift tray bracket [A].



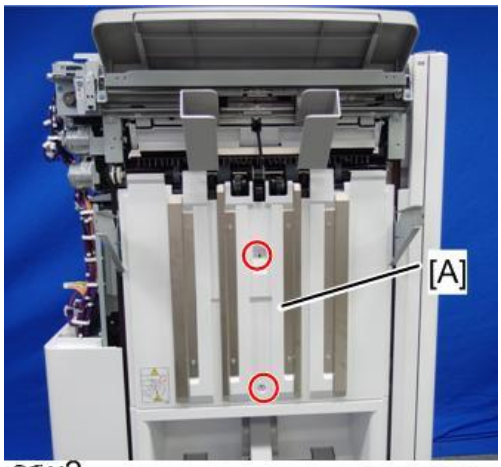
5. Disconnect the connector (CN180) and release the harness.



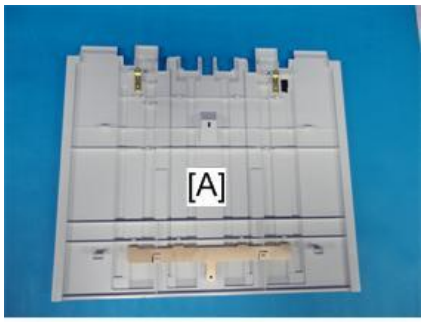
6. Remove the end fence [A].

When you remove the end fence, be careful with the harness beneath it.

Booklet Finisher SR5100

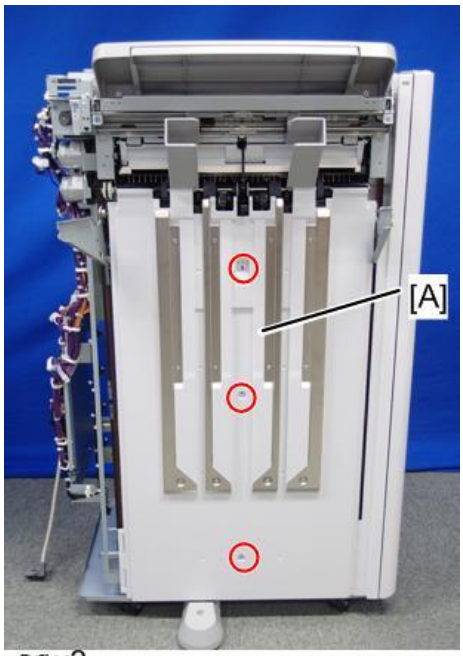


x2 d0bqm1082



d0bqm1083a

Finisher SR5090



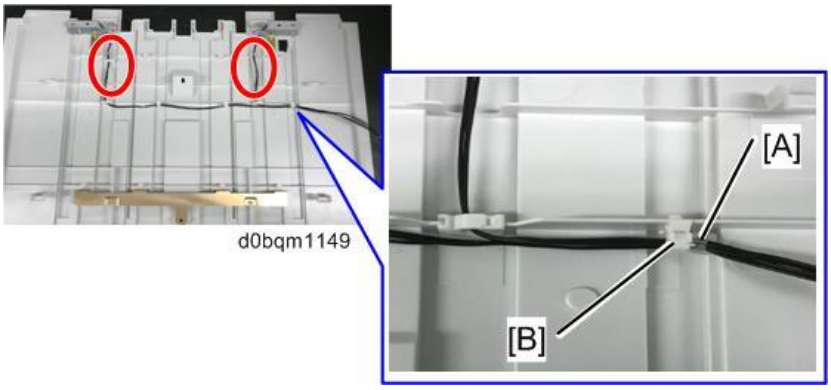
x3 d0bqm1082a

d0bqm1083b

Points to Note When Detaching/ Reattaching/ Replacing the End Fence

There is a harness routed beneath the end fence. Take note of the following:

- If the cable clamp for securing the harness has come off the end fence, reattach it.
- Make sure there is no slack left in the harness; otherwise, the harness may come into contact with the machine's roller shaft and become worn out.
- Make sure not to leave any slack, especially at the parts framed in red as shown. To prevent slack, make sure that the cable tie [A] on the harness is located at the right side of the clamp [B].



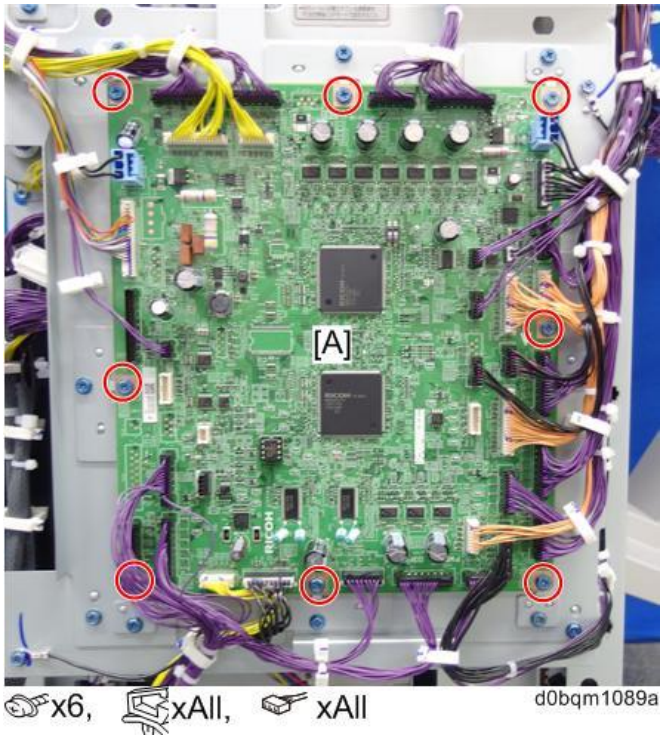
d0bqm1149

Boards

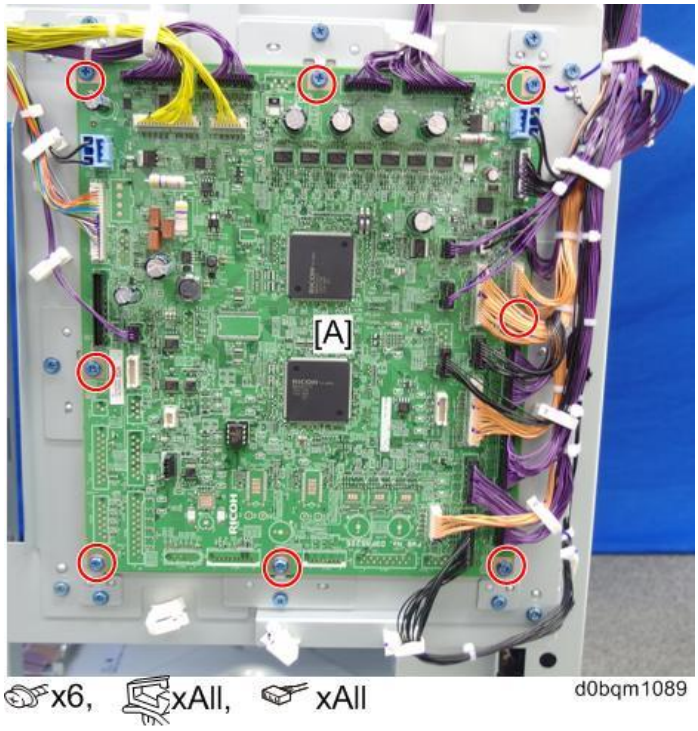
Controller Board (PCB1)

1. Remove the following covers.
   - Rear upper cover (Rear Upper Cover, Rear Lower Cover)
   - Rear lower cover (Rear Upper Cover, Rear Lower Cover)
2. Remove the Controller Board [A].

Booklet Finisher SR5100



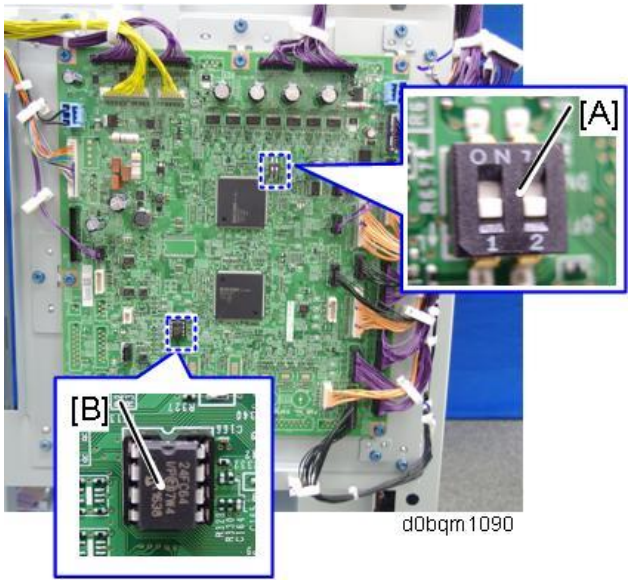
Finisher SR5090



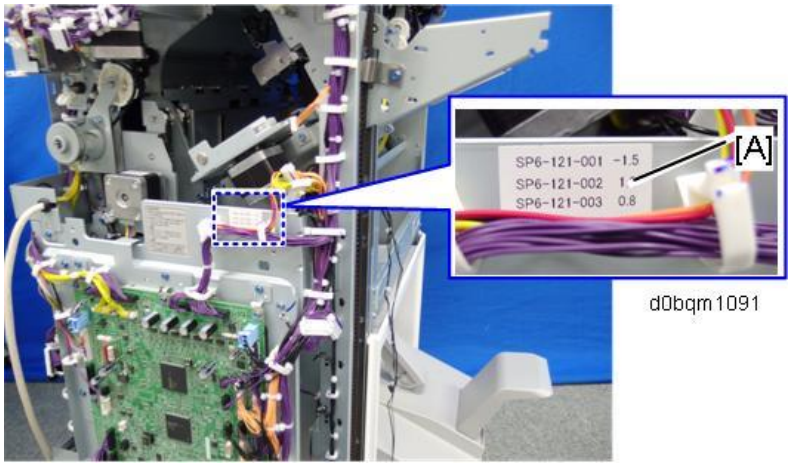
When Replacing the Controller Board

This board has a dip switch. When you reinstall the controller board, follow the procedure below to make dip switch settings.

1. Check the settings of the dip switch [A] on the old main board.
2. Replace the controller board.
3. Change the settings of dip switch [A] on the new controller board to match the settings on the old controller board.
4. Remove the EEPROM [B] from the old controller board and install it on the new controller board.



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



6. Enter the SP mode. Change the following SPs using the numbers on the label.

- SP6-121-001 NV Adj. Data: Jog Position: Factory Adj.
- SP6-121-002 NV Adj. Data: Fold Position: Factory Adj.
- SP6-121-003 NV Adj. Data: Staple Stacking Fence Pos. Factory Adj.

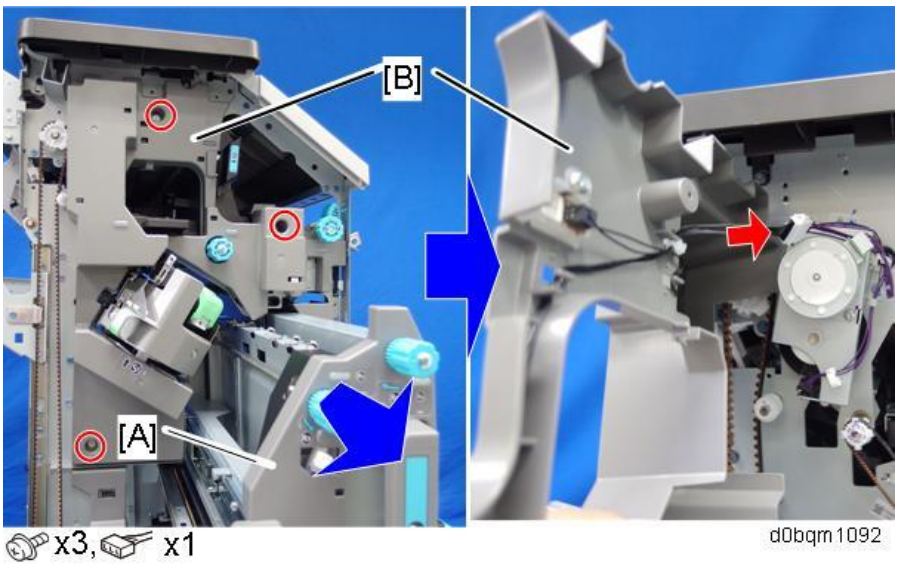
Corner Stapling Unit, Trailing Edge Alignment Unit

Corner Stapling Unit

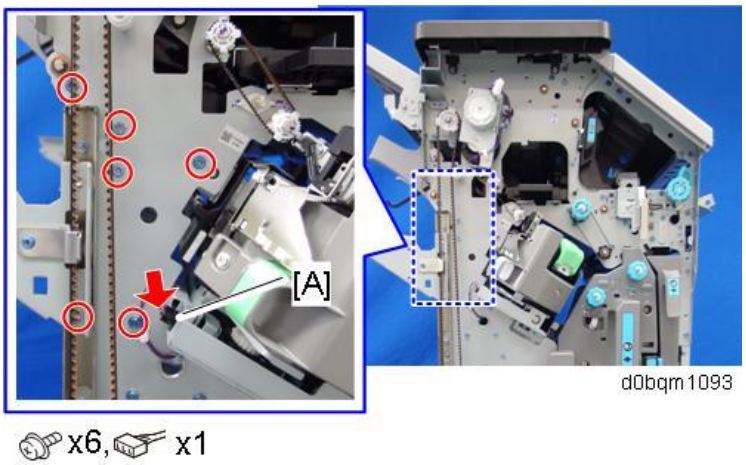
1. Remove the following covers.
   - Front left side cover (Front Left Side Cover)
   - End fence (End Fence)
   - Rear lower cover (Rear Upper Cover, Rear Lower Cover)
2. Pull out the saddle stitch unit [A], and remove the inner upper cover [B].

Note

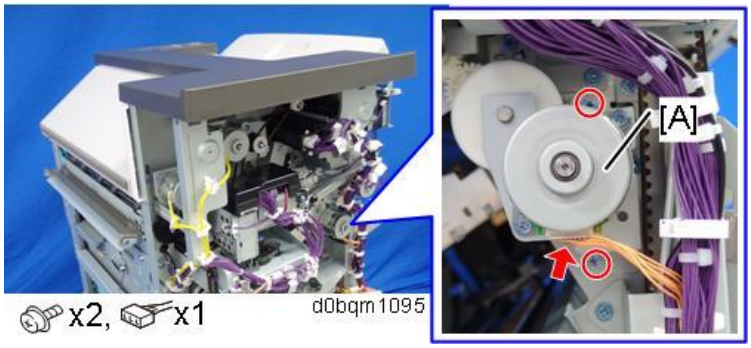
- Disconnect the harness from the back side of the inner upper cover when you remove the inner upper cover.



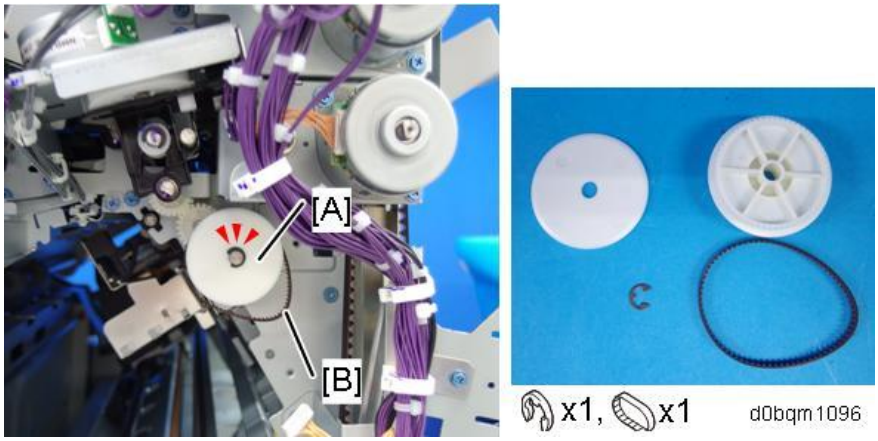
3. Disconnect the staple move HP sensor [A], and then remove the screws from the front side cover.



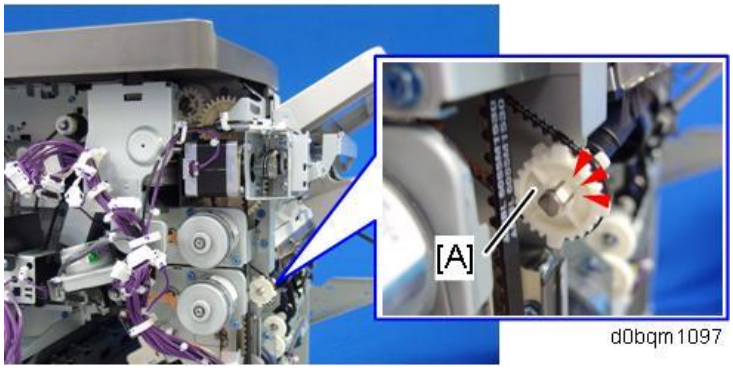
4. Remove the pressure release motor bracket [A] from the rear side of the finisher.



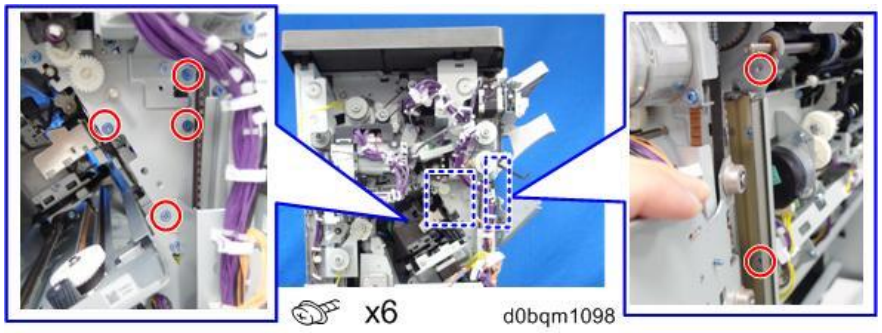
5. Remove the gear [A] and timing pulley [B] from the rear side of the finisher.



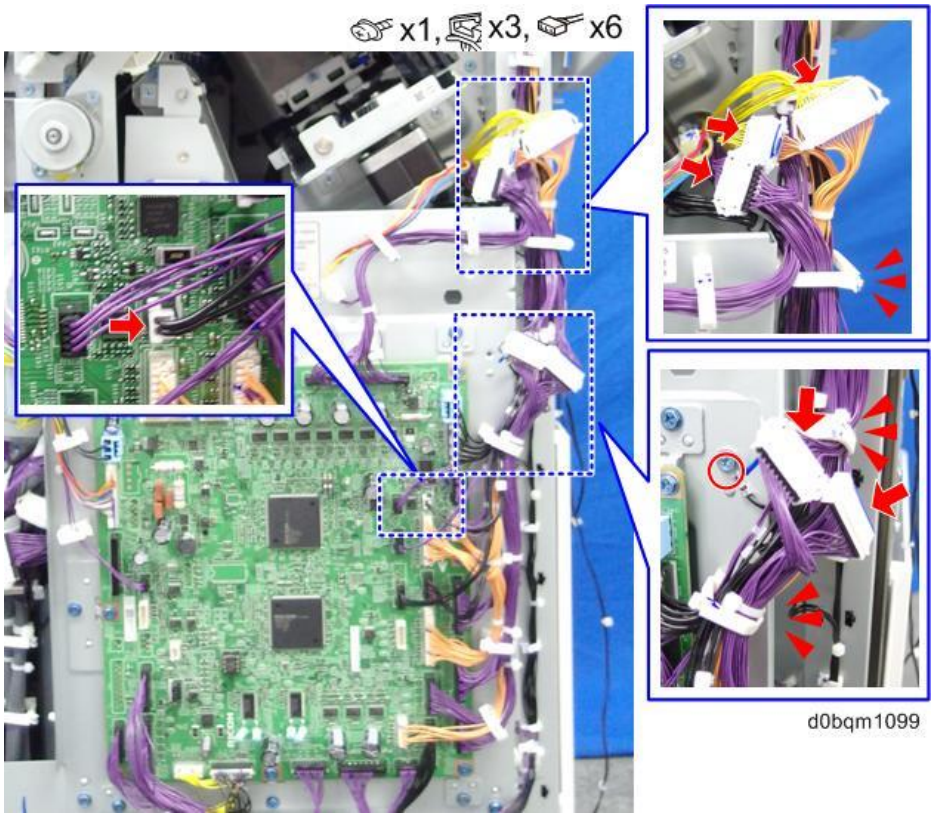
6. Remove the pulley [A] from the rear side of the finisher.



7. Remove the six screws from the rear side of the finisher.

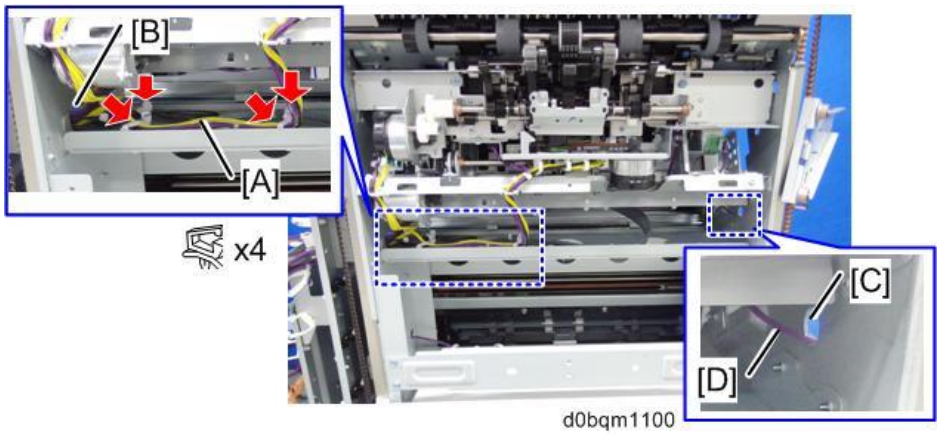


8. Remove the main board, ground wire, connectors, and clamps.



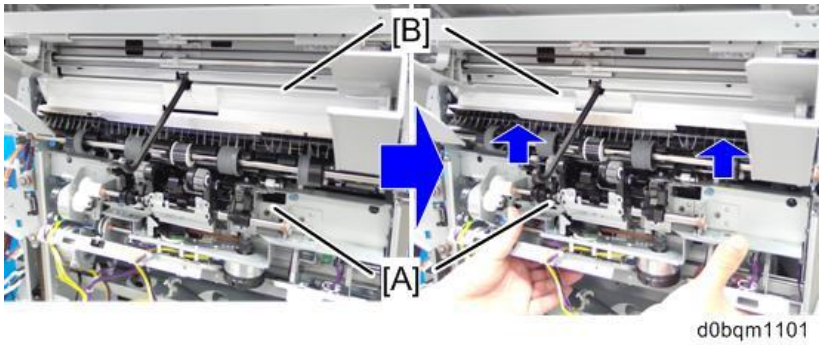
9. Remove the four clamps, and then pull the harness [A] out through the hole [B] on the left side of the finisher.

10. Pull the harness [C] out through the hole [D] on the left side of the finisher.



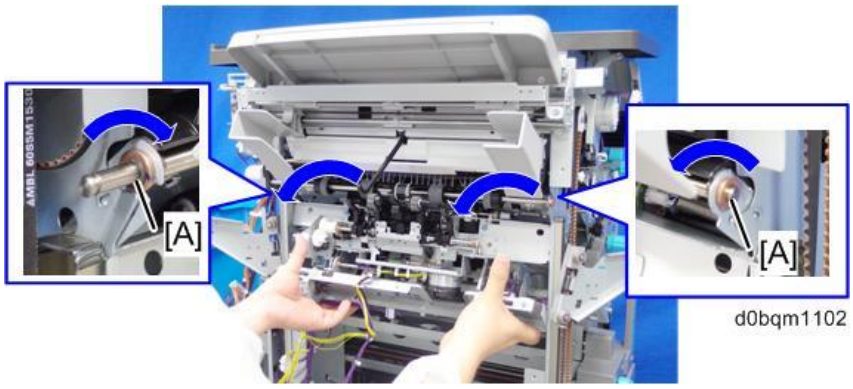
11. Remove the stapler unit. (Stapler Unit)

12. Lifting the corner stapling unit [A], push up the paper exit guide unit [B].



d0bqm1101

13. Remove the bearings on the sides [A] from the cutouts on the metal plate.



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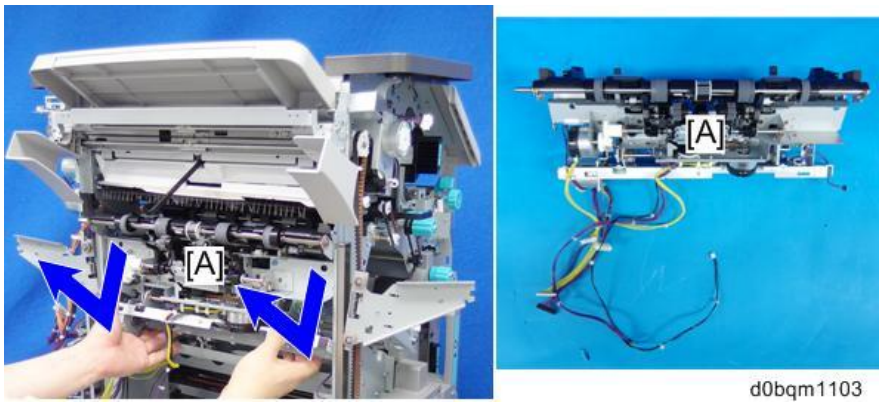
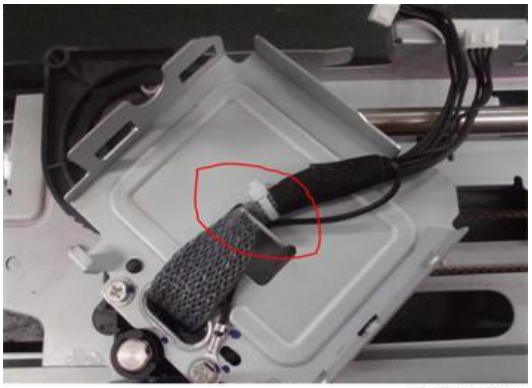
14. Remove the corner stapling unit [A].



d0bqm1103

Important

- When removing the stapler unit, make sure to leave the harness of stapler unit is hooked at the position with red circle as shown below.



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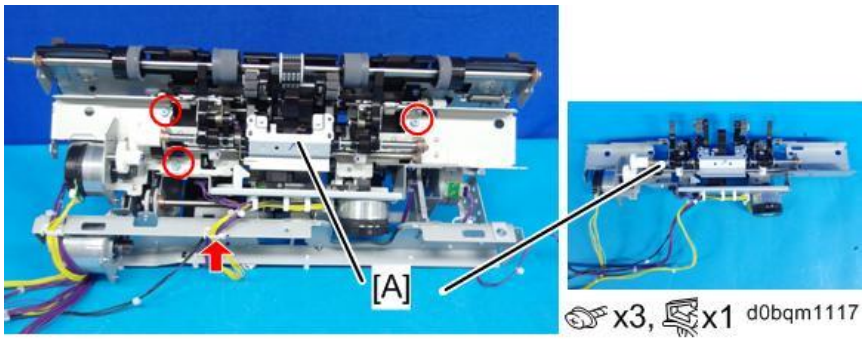
Trailing Edge Alignment Unit

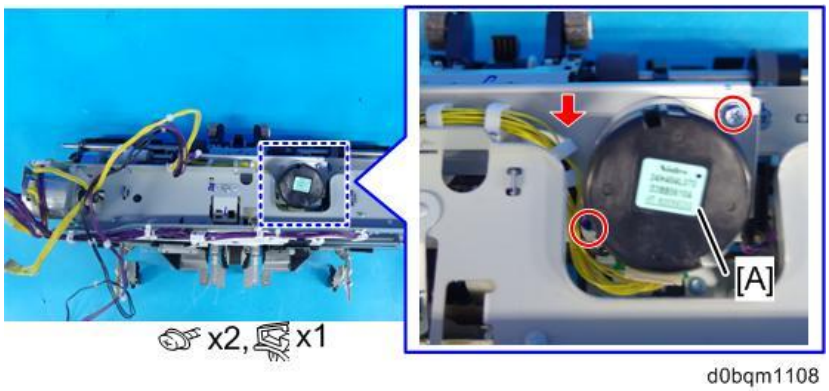
1. Remove the corner stapling unit. (Corner Stapling Unit)
2. Remove the trailing edge alignment unit [A].



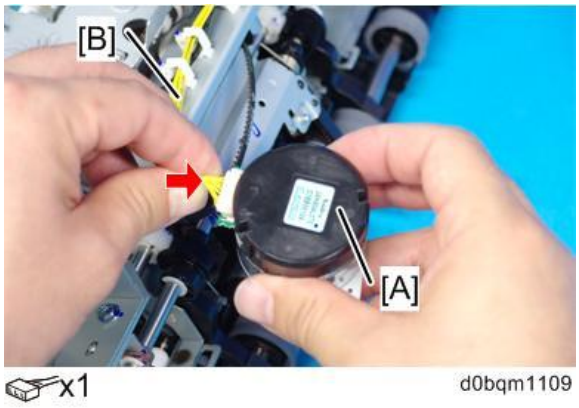
Main Unit (Motors)

Stacking Sponge Roller Lift Motor

1. Remove the trailing edge alignment unit from the corner stapling unit (Trailing Edge Alignment Unit).
2. Remove the stacking sponge roller lift motor [A].



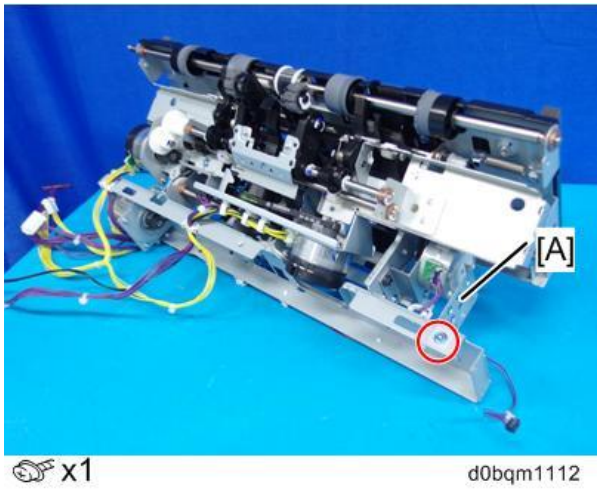
3. Disconnect the harness [B] from the stacking sponge roller lift motor [A].



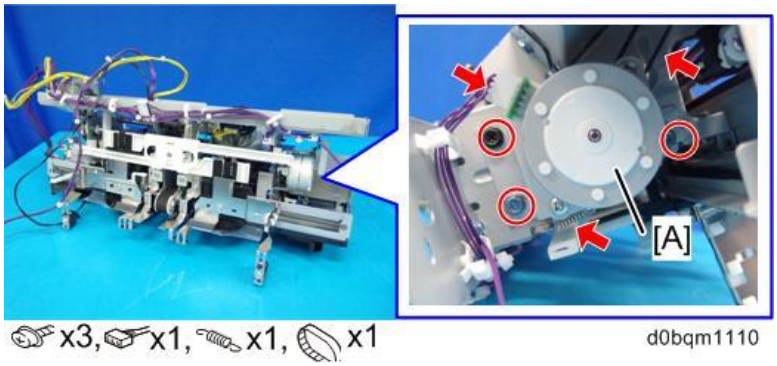
Leading Edge Guide Motor

1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).

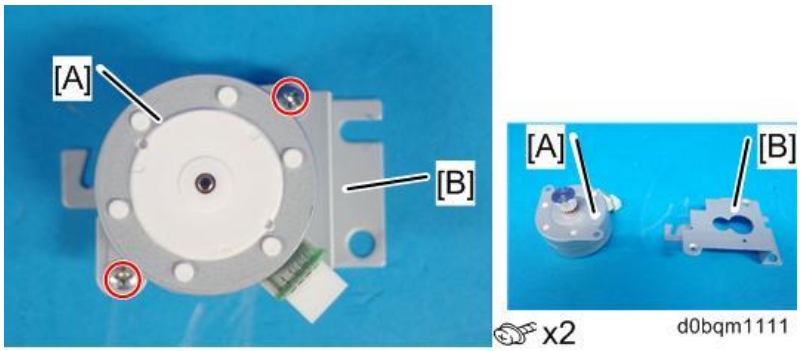
2. Remove the bracket [A].



3. Remove the leading edge guide motor [A] with its bracket.



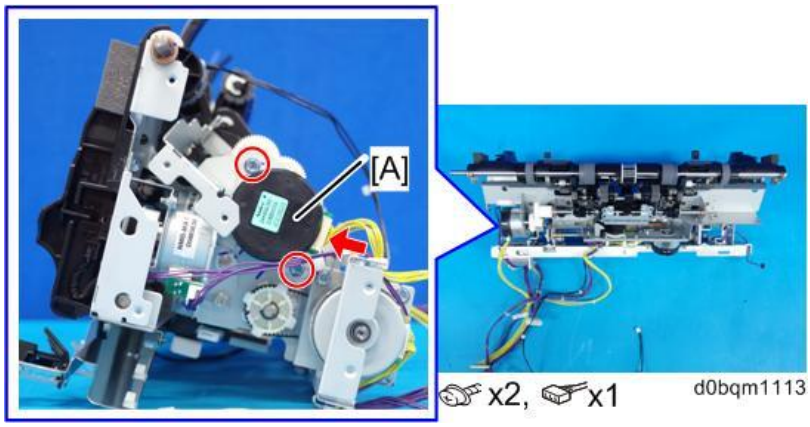
4. Remove the leading edge guide motor [A] from the bracket [B].



Paper Stacking Holder Motor

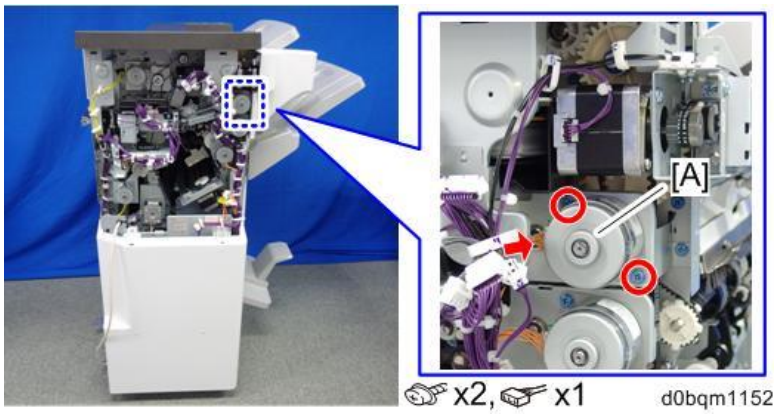
1. Remove the corner stapling unit (Corner Stapling Unit).

2. Remove the paper stacking holder motor [A].



Exit Motor

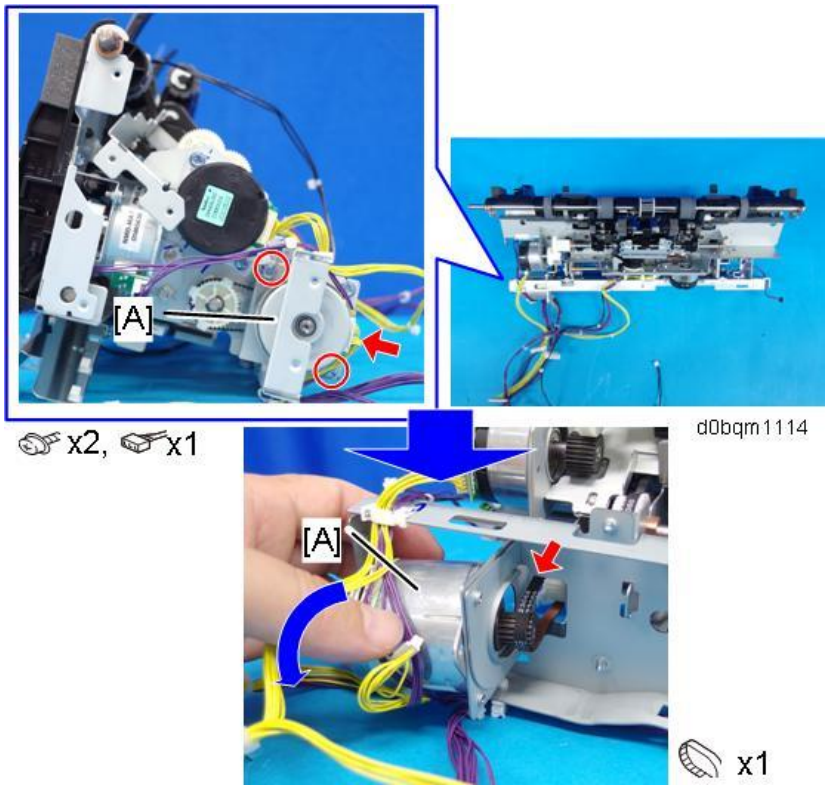
1. Remove the rear upper cover (Rear Upper Cover, Rear Lower Cover).
2. Remove the exit motor [A].



Feed-out Belt Motor

1. Remove the corner stapling unit (Corner Stapling Unit).

2. Remove the feed-out belt motor [A].

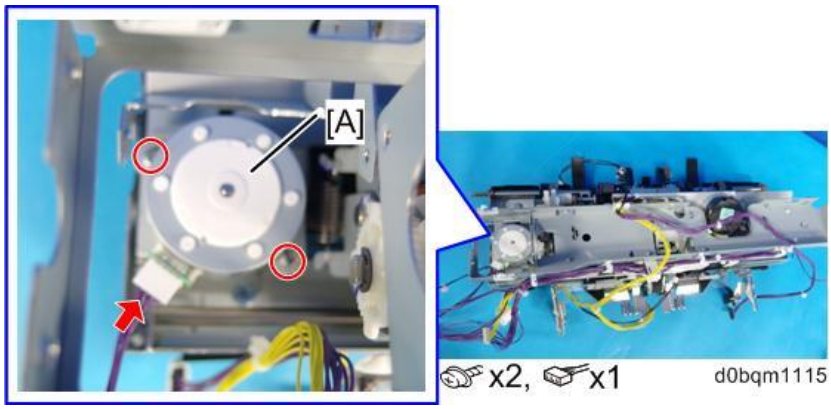


Jogger Motor

1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).

2. Remove the feed out motor (Feed-out Belt Motor).

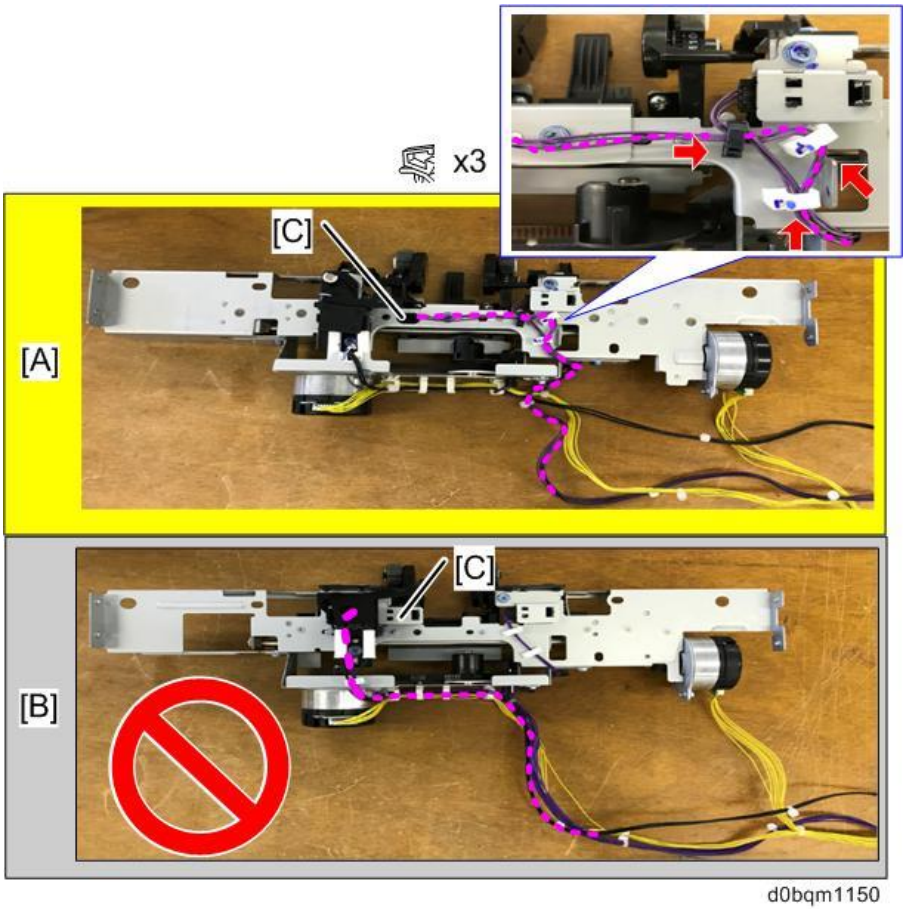
3. Remove the jogger motor [A].



Main Unit (Sensors)

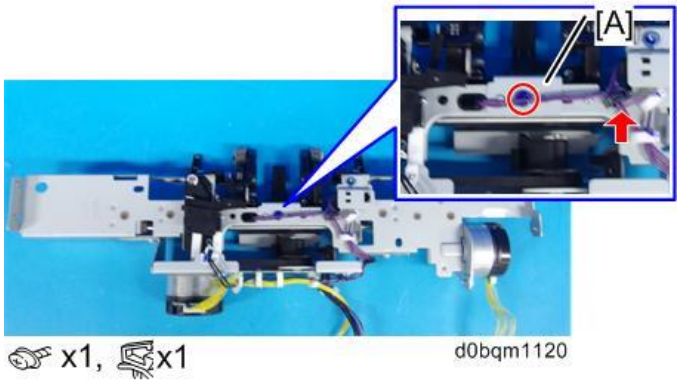
Important

- When you release the harness around the shift tray paper sensor [C] for replacing parts such as the sensors on the trailing edge alignment unit, be sure to route the harness as shown in the following figure [A]. (The sensor layout and harness routing has changed from the previous machine [B], so be careful not to route the harness as shown in the following figure [B].)

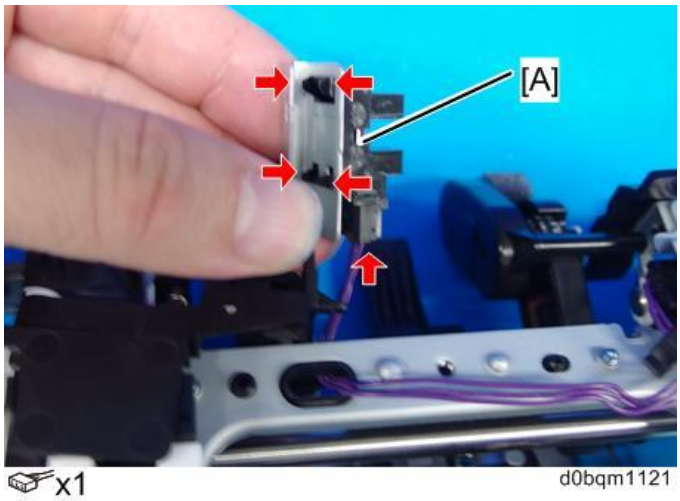


Shift Tray Paper Height Sensor

1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).
2. Turn over the trailing-edge alignment unit, and then remove the shift paper height sensor together with the bracket [A].

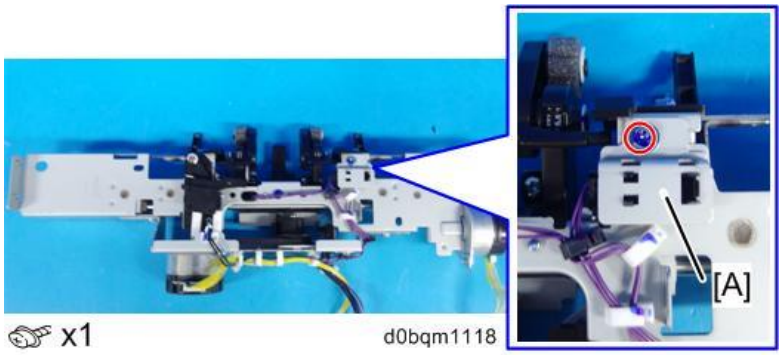


3. Remove the shift paper height sensor [A].

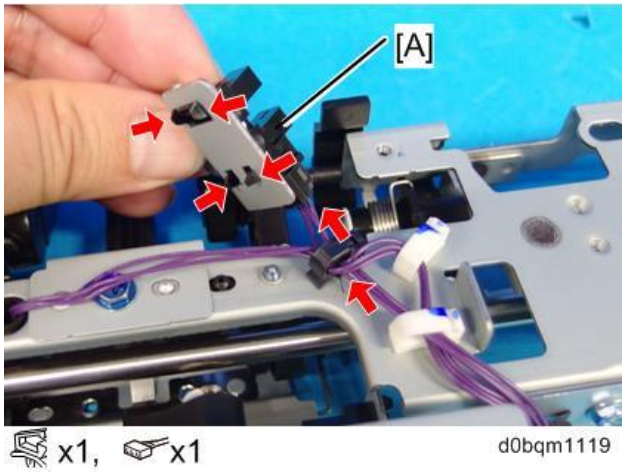


Paper Stacking Holder HP Sensor

1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).
2. Turn over the trailing-edge alignment unit, and then remove the paper stacking holder HP sensor together with the bracket [A].



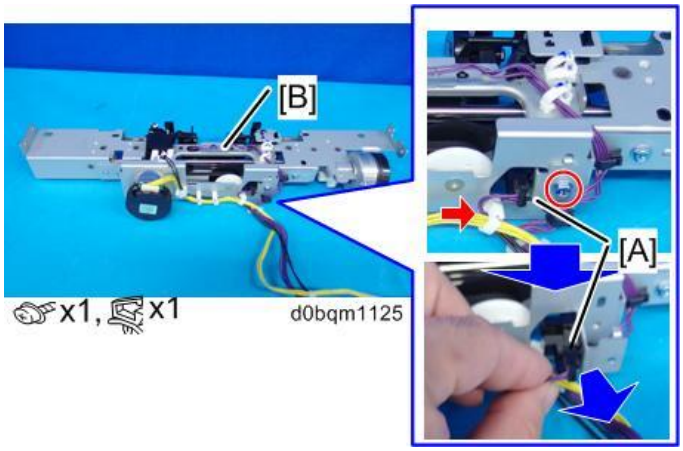
3. Remove the paper stacking holder HP sensor [A].



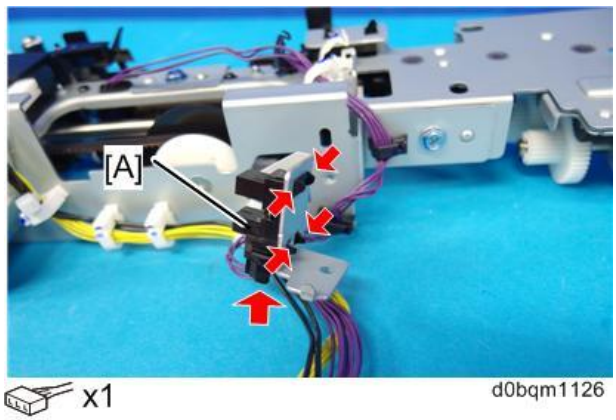
Stacking Sponge Roller HP Sensor

1. Remove the corner stapling unit (Corner Stapling Unit).

2. Remove the stacking sponge roller HP sensor together with the bracket [A] from the corner stapling unit [B].

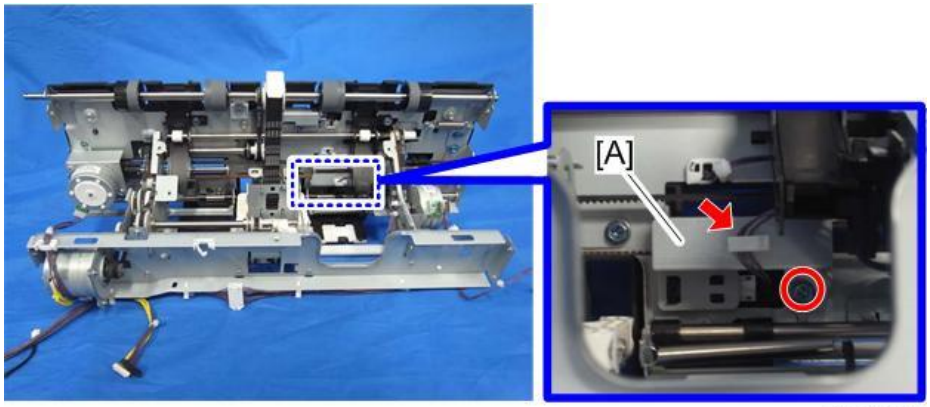


3. Remove the Stacking Sponge Roller HP Sensor (S32) [A] from the bracket.



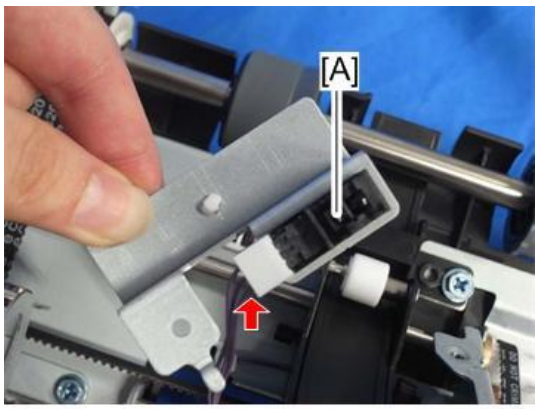
Staple Tray Paper Sensor (S31)

1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).
2. Remove the staple tray paper sensor together with the bracket [A] from the part with the trailing-edge alignment unit (x 1, x 1).



d1351295

3. Remove the staple tray paper sensor [A] (x 1).

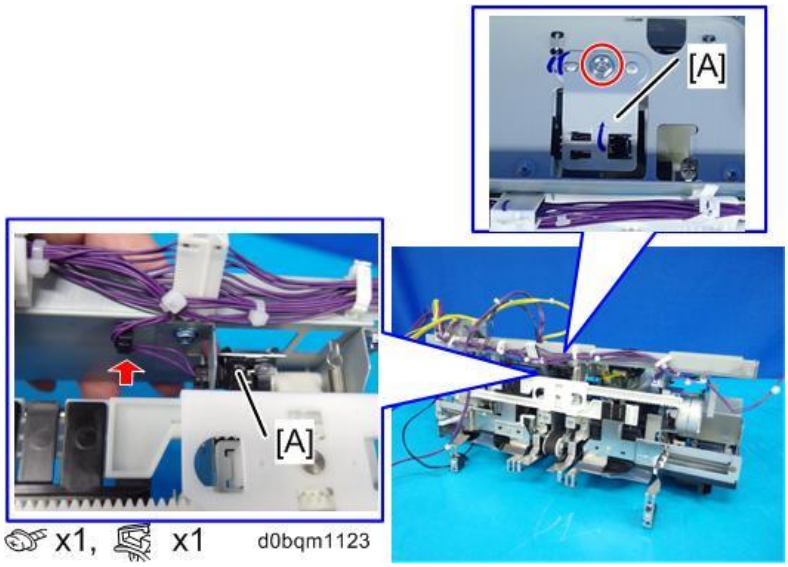


d1351296

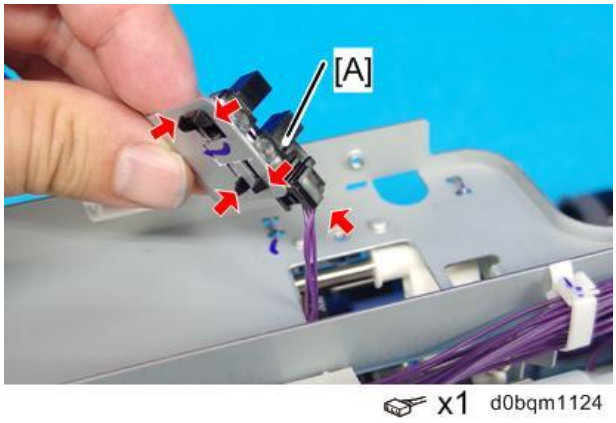
Feed-out Belt HP Sensor

1. Remove the corner stapling unit (Corner Stapling Unit).

2. Remove the bracket with the feed-out belt HP sensor [A].

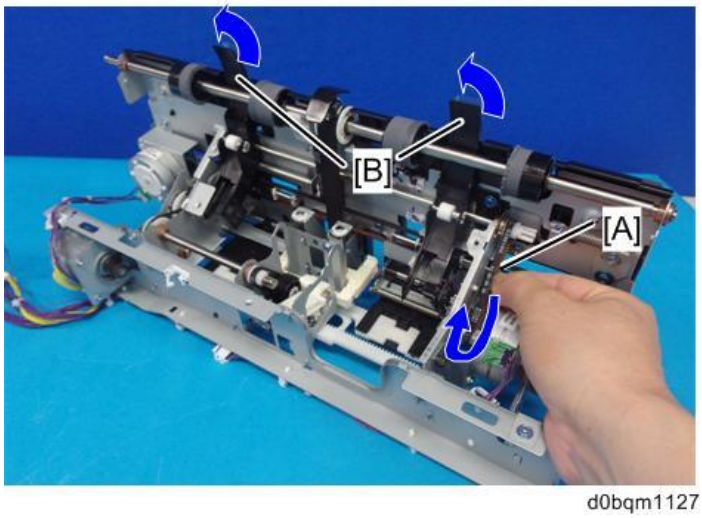


3. Remove the feed-out belt HP sensor [A] from the bracket.



Leading Edge Guide HP Sensor

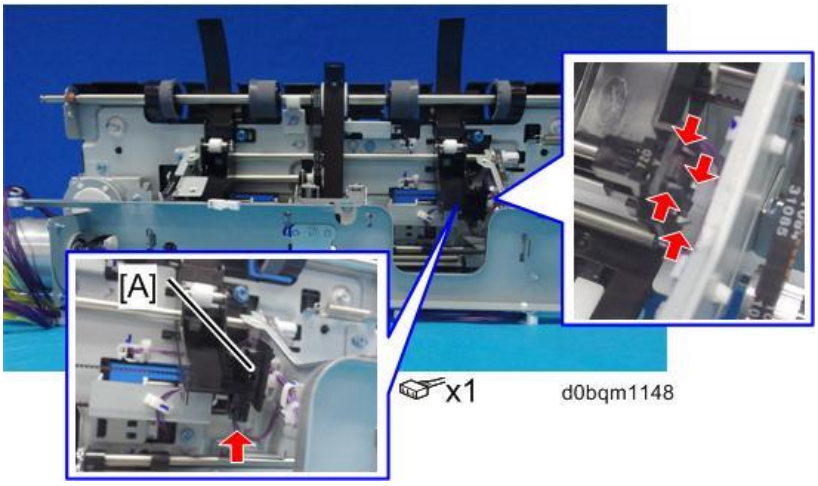
1. Remove the trailing edge alignment unit (Trailing Edge Alignment Unit).
2. On the part with the corner stapling unit, rotate the belt [A] of the leading-edge guide motor until the leading-edge guide [B] is revealed.



3. Remove the leading edge guide HP sensor [A].

Note

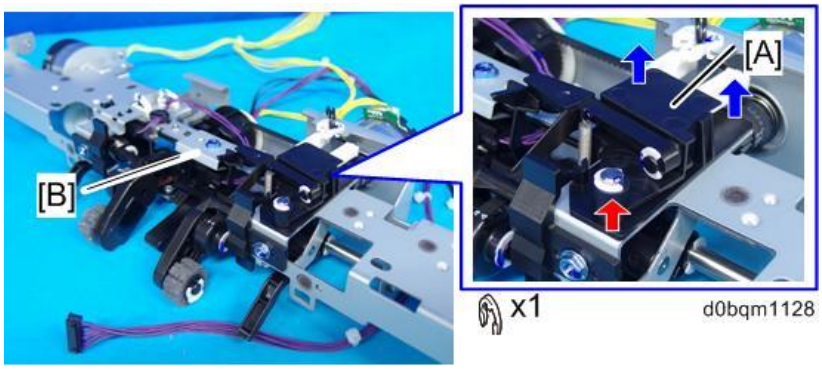
- When you remove the sensor, be sure to release the hook with a tool such as a ratchet screwdriver.



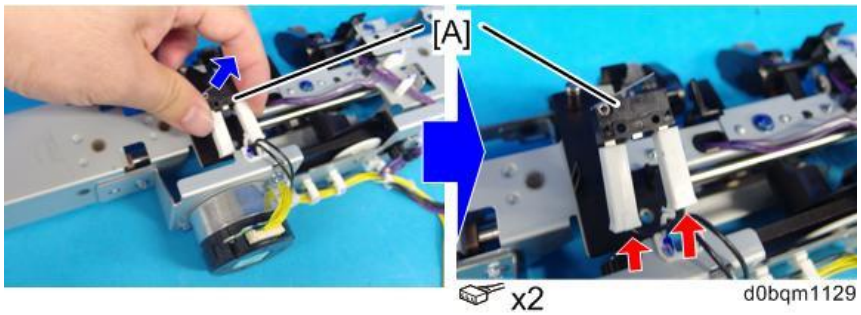
Upper Tray Height Limit Switch

1. Remove the corner stapling unit (Corner Stapling Unit).

2. Remove the bracket [B], and then remove the lever unit [A].



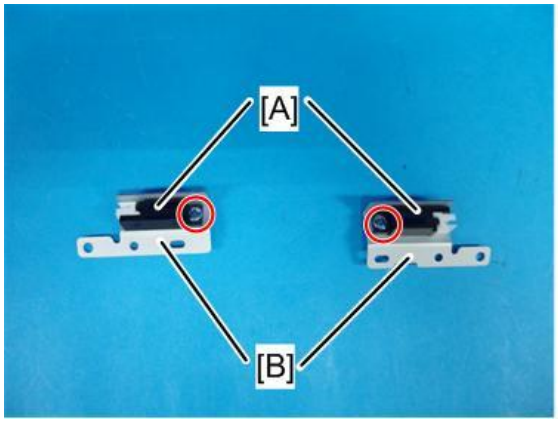
3. Remove the upper tray height limit switch [A].



Sub Height Sensor

1. Remove the end fence. (End Fence)

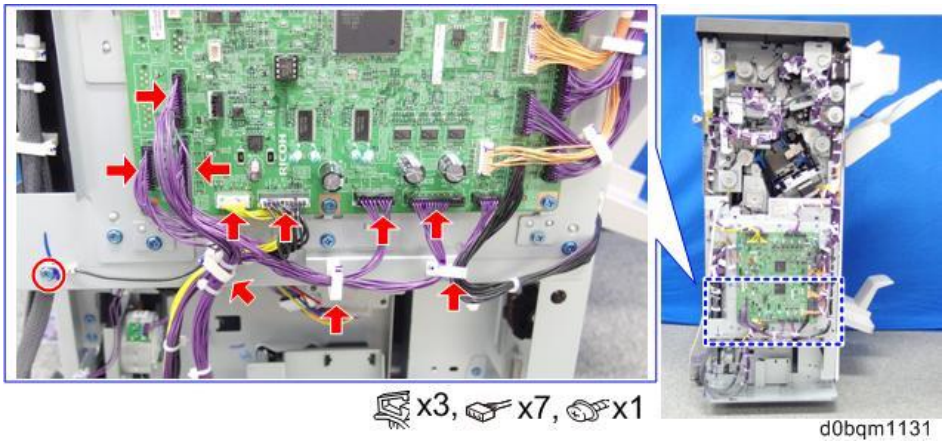
2. Remove the brackets [B] from the sub-height sensors [A] beneath the end fence.



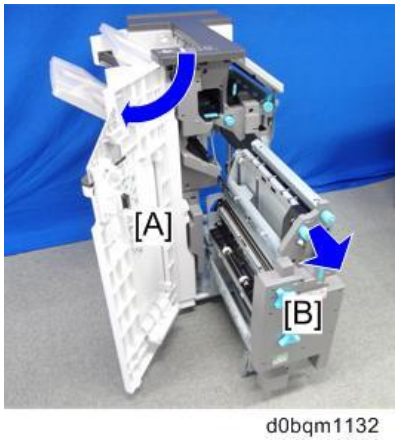
Saddle Stitch Unit (Motors)

Saddle Stitch Unit

1. Remove the following covers.
   - Rear Upper Cover (Rear Upper Cover, Rear Lower Cover)
   - Rear Lower Cover (Rear Upper Cover, Rear Lower Cover)
2. Remove the harnesses and ground wire from the saddle stich unit.

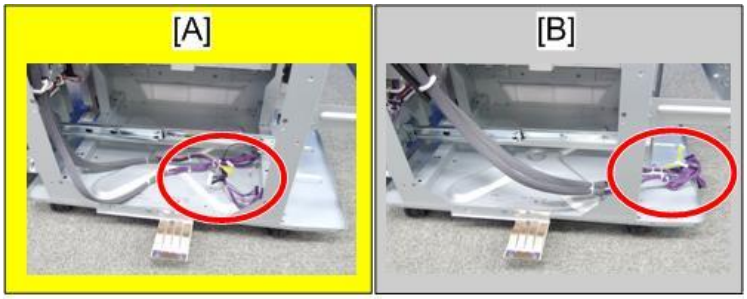


3. Open the front door [A] and pull out the saddle stitch unit [B].



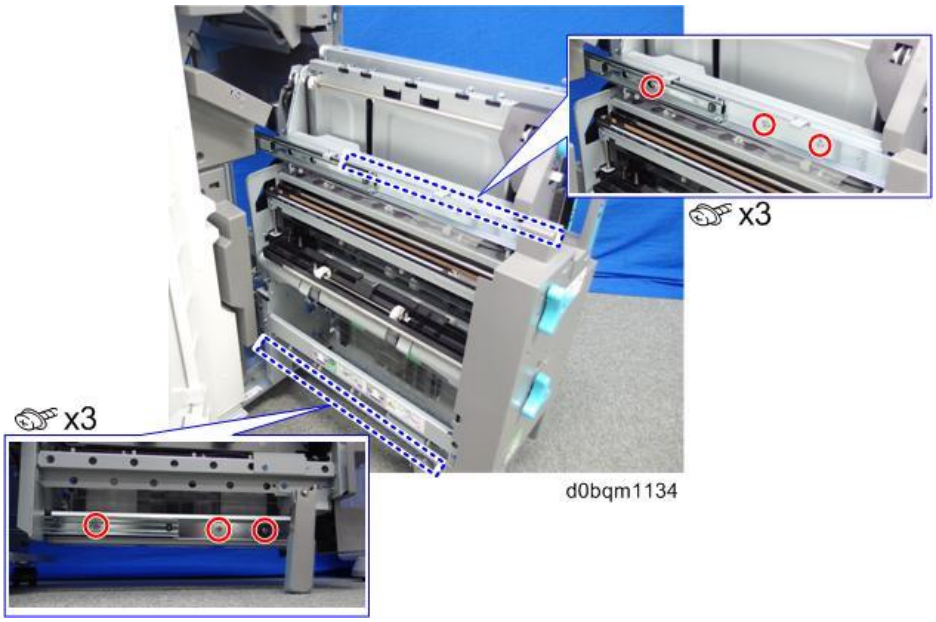
Note

- After pulling out the saddle stitch unit, be sure to keep the harnesses within the interior of the finisher.
  If the harnesses protrude, the connectors may become caught between metal plates when removing the saddle stitch unit.
  [A]: Harnesses stowed in finisher (correct)
  [B]: Harnesses protruding (incorrect)



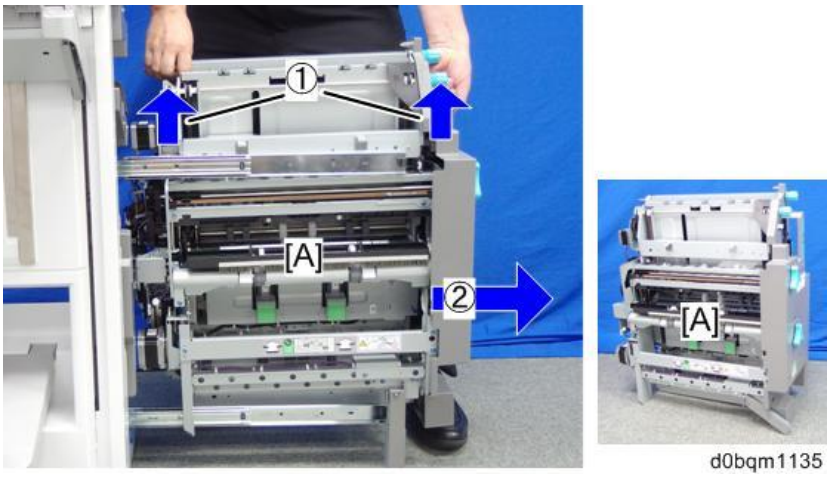
d0bqm1133

4. Remove the screws securing the finisher and saddle stitch unit.



d0bqm1134

5. Lift up to remove the saddle stitch unit [A].

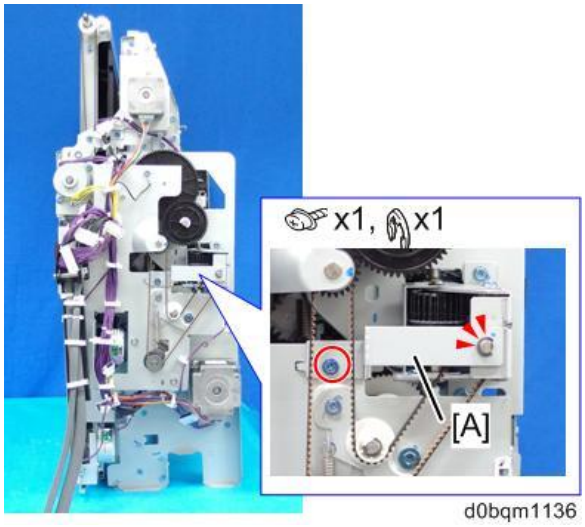


d0bqm1135

Press Fold Motor

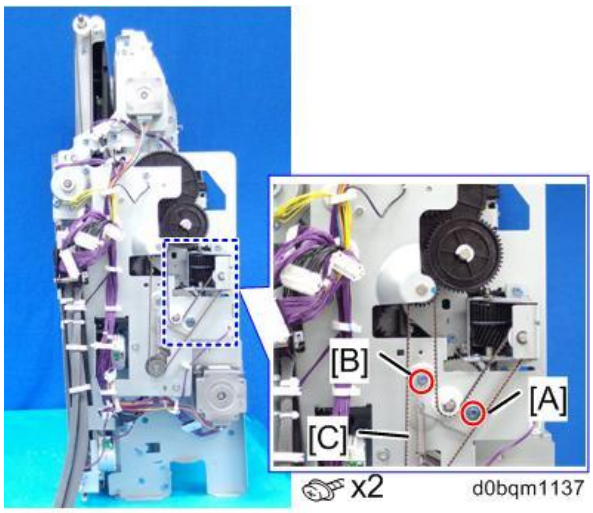
1. Remove the saddle stitch unit (Saddle Stitch Unit).

2. Remove the fixing bracket [A] on the saddle stitch unit.

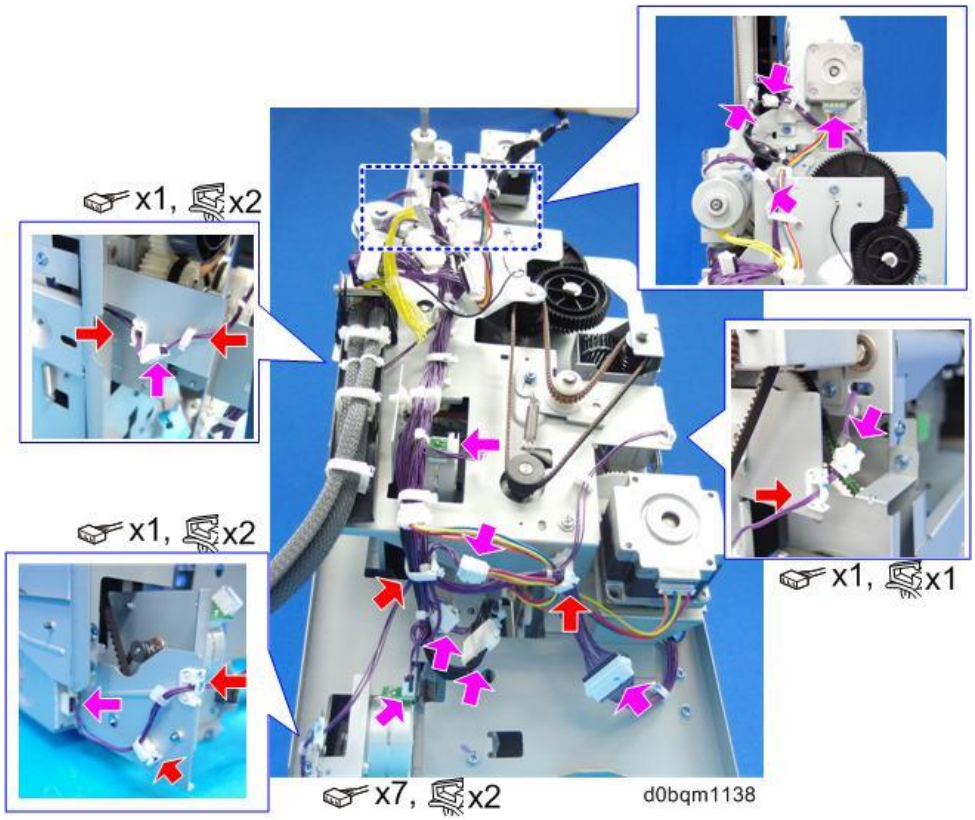


3. Remove the screw [A] shown in the photo below.

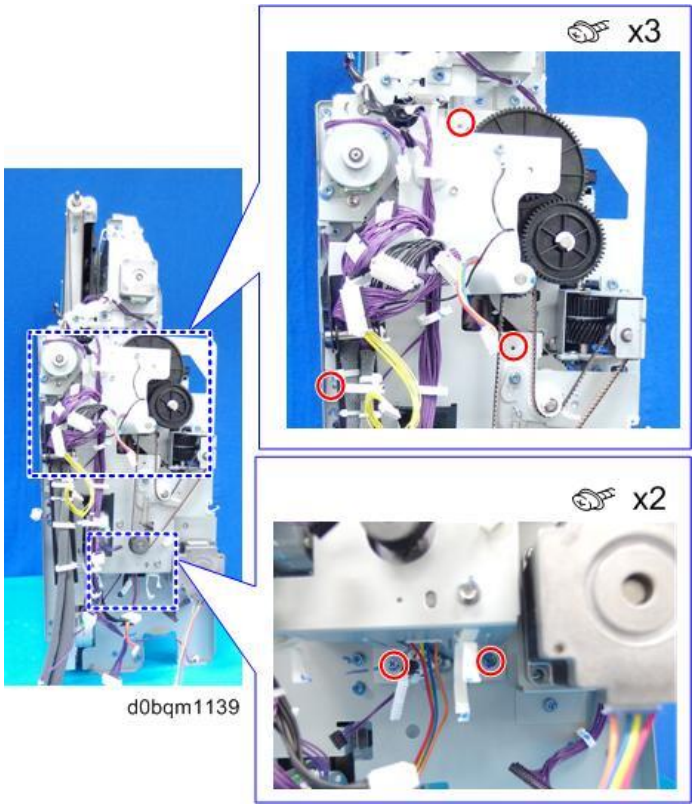
4. Loosen the screw [B] to loosen the press fold motor belt [C].



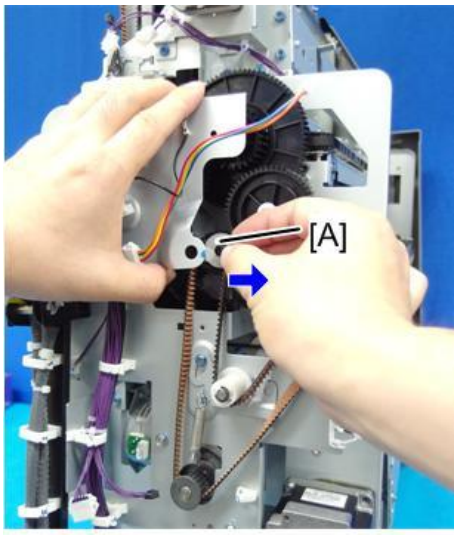
5. Remove the clamps (indicated by red arrows) and connectors (pink arrows) from the press fold motor unit.



6. Remove the screws on the press fold motor unit [A].



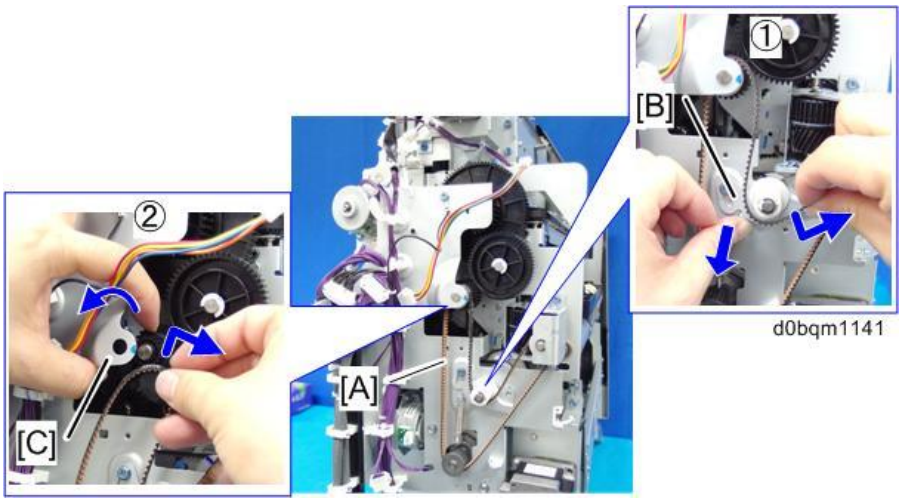
7. Remove the spacer [A] between the gears, taking care not to touch the bracket.



d0bqm1140

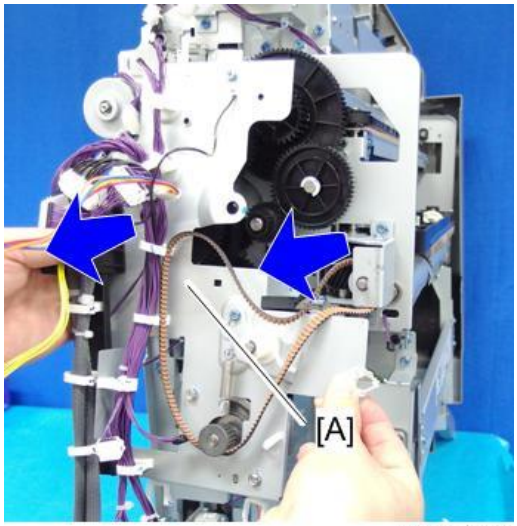
8. Remove the belt [A].

- Pulling down the bracket [B] securing the belt, remove the belt from the gear.
- Remove the belt from the gear, making sure not to touch the bracket [C].



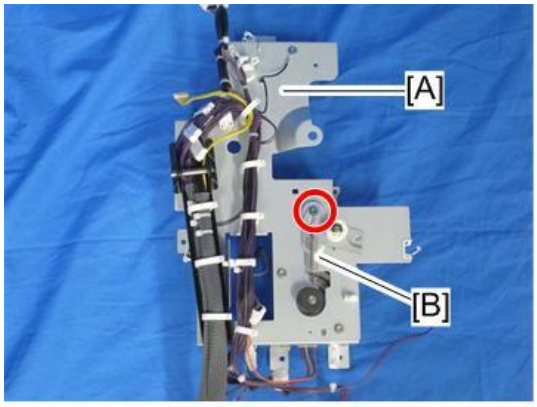
d0bqm1141

9. Remove the press fold motor unit [A].



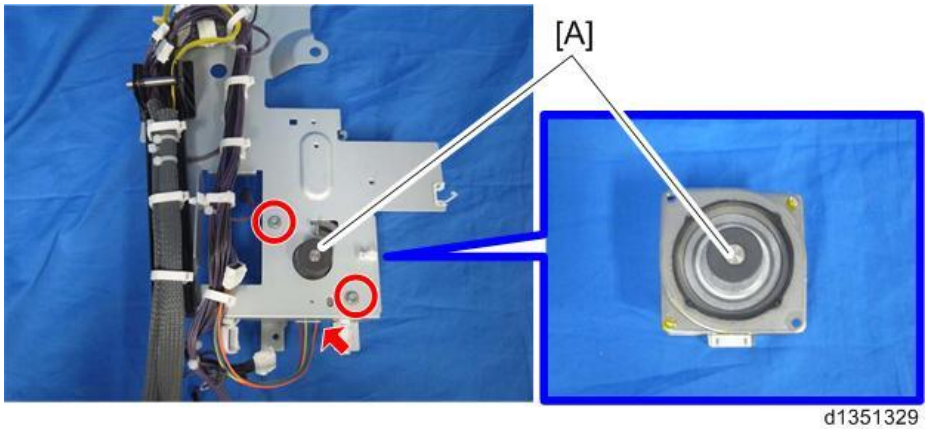
d0bqm1142

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



d1351328

11. Remove the press fold motor [A] (x 2, x 1).



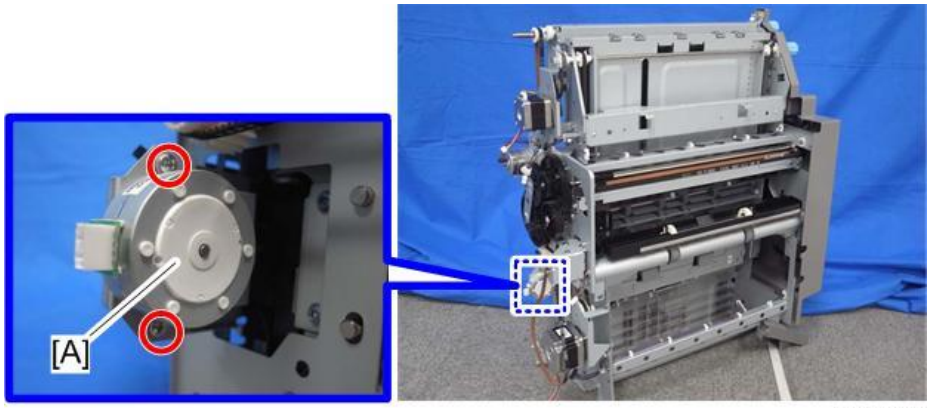
d1351329

Booklet Jogger Motor

1. Remove the saddle stitch unit (Saddle Stitch Unit).

2. Remove the press folding motor bracket (Press Fold Motor).

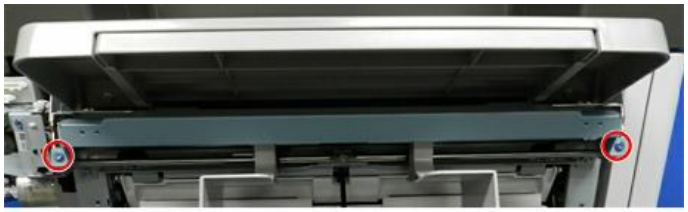
3. Remove the booklet jogger motor [A] (x 2).



Paper Guide Unit

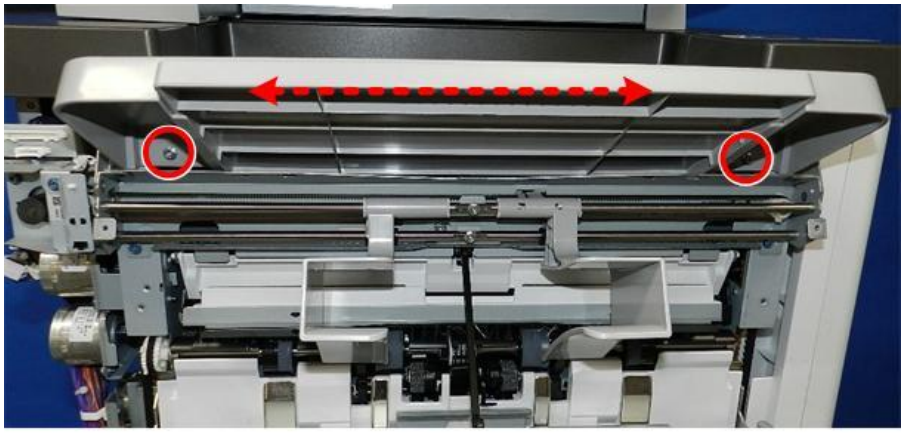
Paper Guide Unit

1. Remove the paper guide cover. (Paper Guide Cover)
2. Disconnect the cover support bracket.



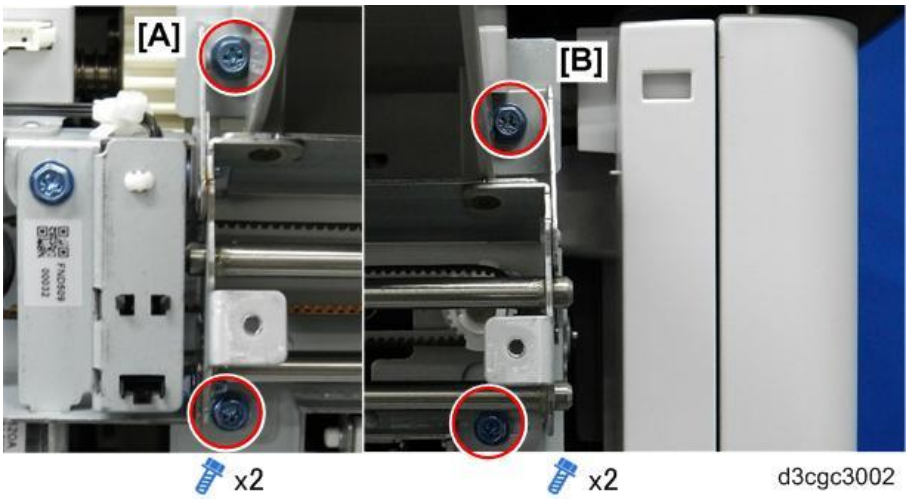
3. Remove the cover support bracket.

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.

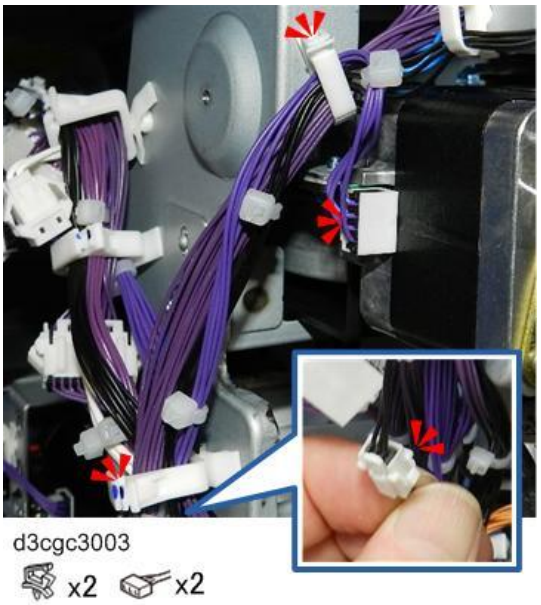


5. Disconnect the rear end of the paper guide unit bracket [A].

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

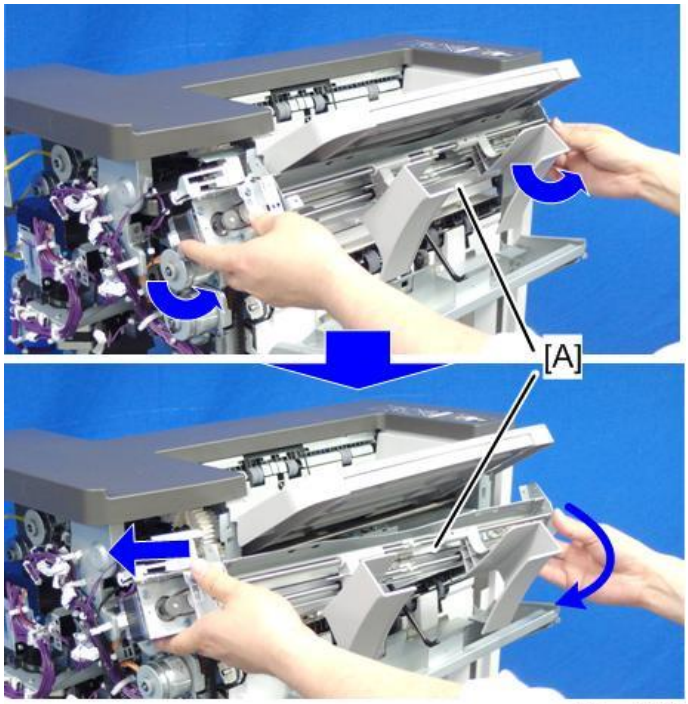


7. At the rear, open the clamps and disconnect the motor and sensor harnesses.

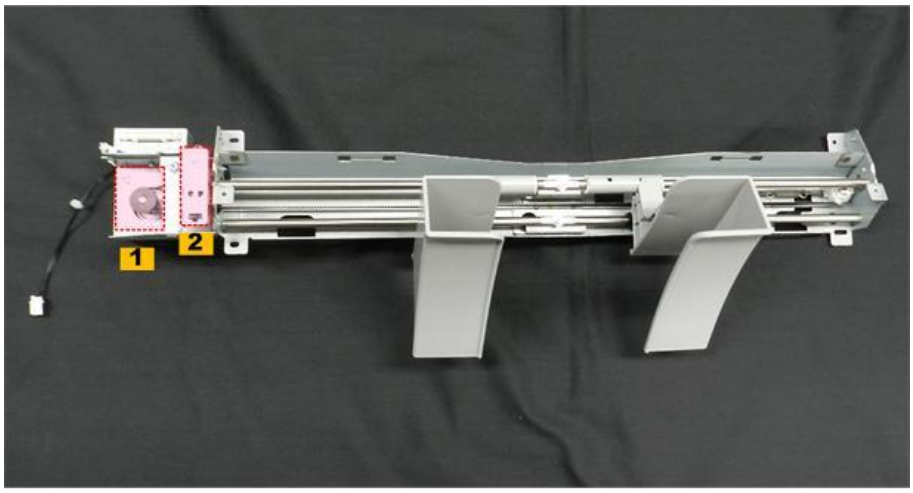


8. Lay the unit [A] on flat clean surface so you can see the paper guide motor [1] and paper guide

position sensor bracket [2].



d0bqm1116

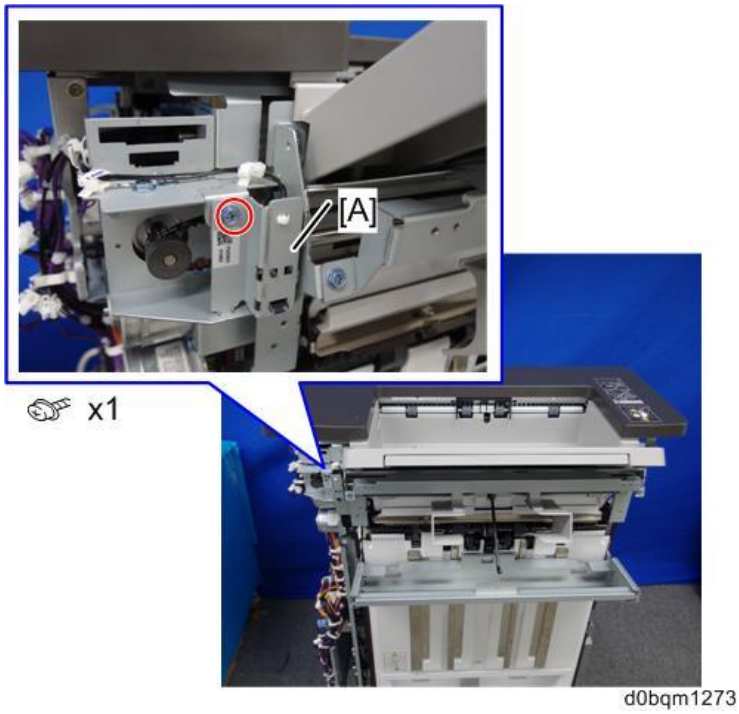


d3cgc3005

Paper Guide HP Sensor

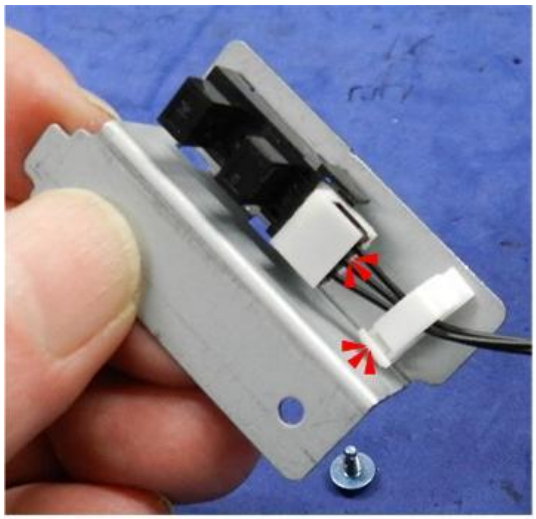
1. Remove the paper guide cover. (Paper Guide Cover)

2. Remove the bracket [A] with the paper guide HP sensor.



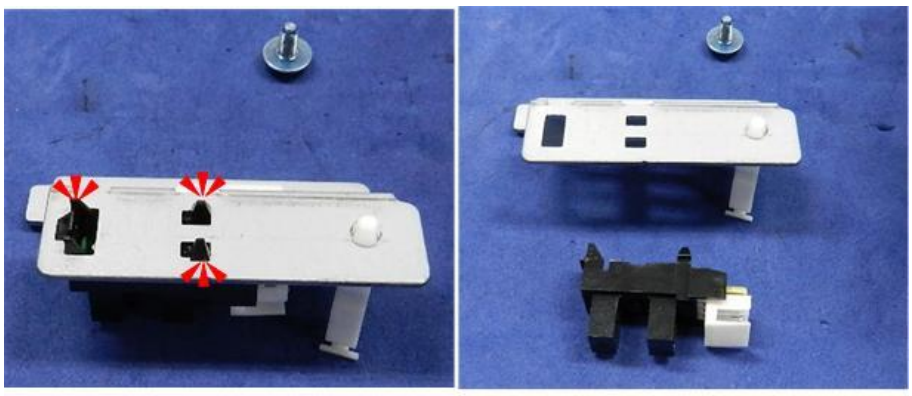
d0bqm1273

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



d3cgc3007a

4. Separate the sensor and bracket (x3).



d3cgc3008a

Paper Guide Motor

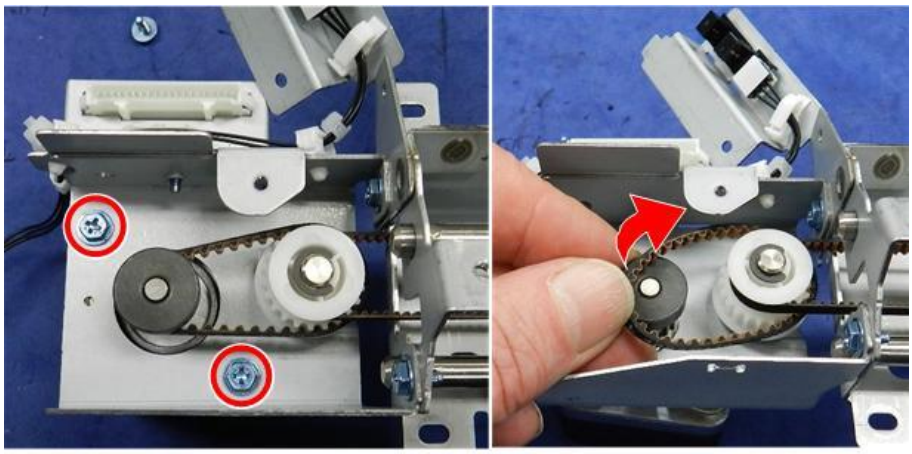
The paper guide motor is at [A].

d3cgc3005c

1. Remove the paper guide unit. (Paper Guide Unit)
2. Remove sensor bracket (x1).

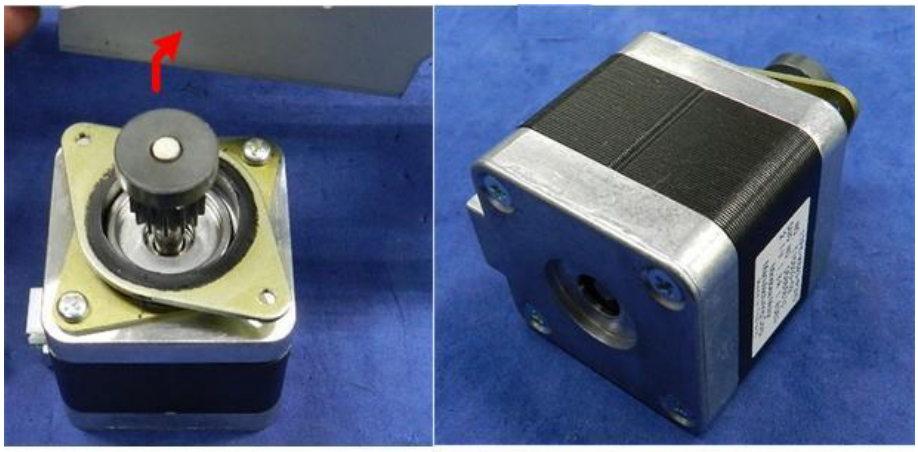
d3cgc3006a

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



d3cgc3010a

4. Remove the paper guide motor.



d3cgc3011

Note

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

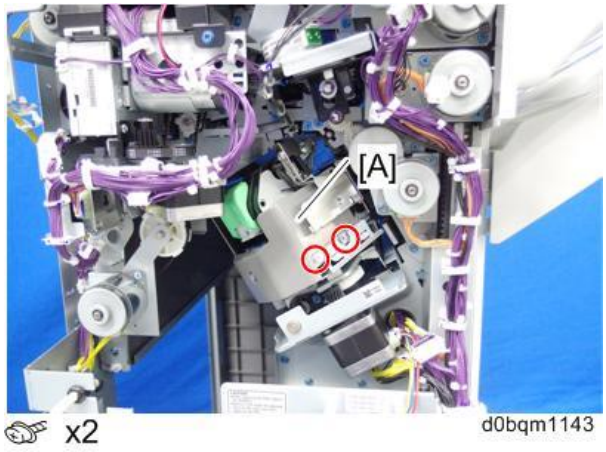
d3cgc3012

Stapler Unit

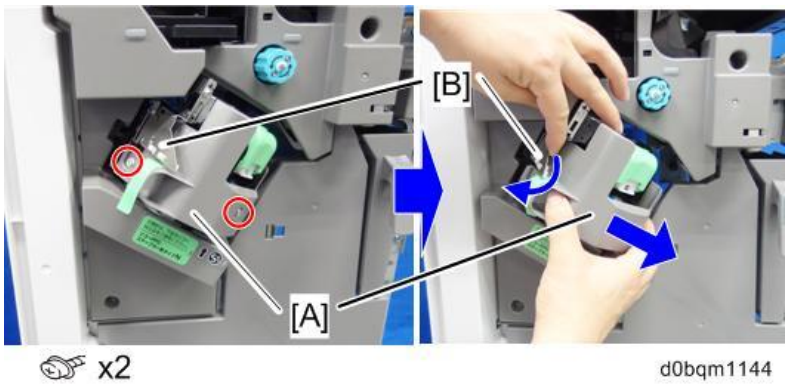
Stapler Unit

1. Remove the rear upper cover. (Rear Upper Cover, Rear Lower Cover)
2. Open the front door and push the stapler [A] to the rear side of the finisher.

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

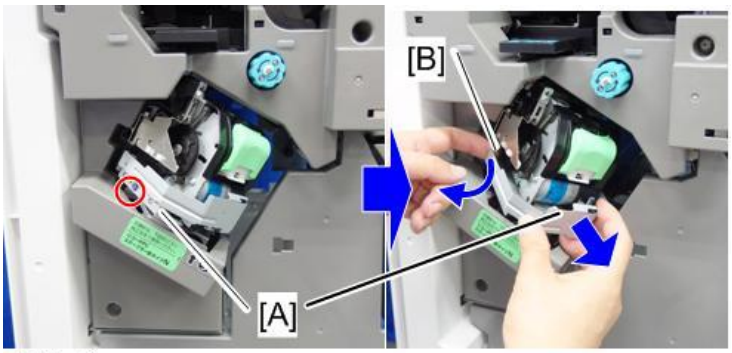


4. Push the stapler to the front side of the finisher.
5. Remove the inner upper cover [A].
   Be sure to open the paper guide [B] and release its catches on the cover.



6. Remove the fixing bracket [A] of the stapler unit.
   - Opening the trailing edge of the bracket [B], pull it out to the front while releasing the catch of the boss.

- When attaching the stapler unit, make sure that the hook on the back of the cover is inserted to the cutout of the frame firmly.



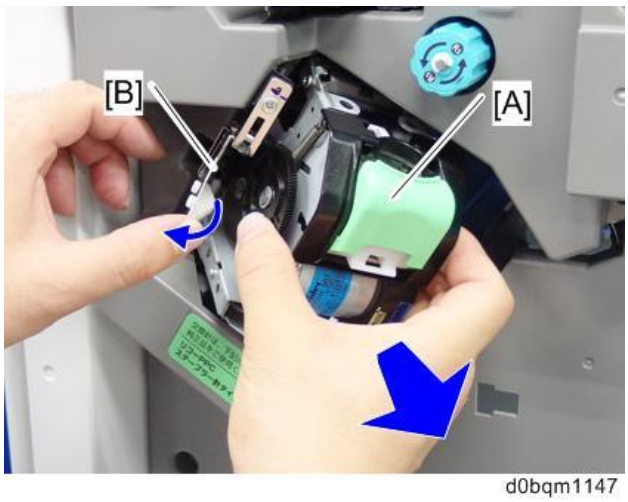
x1 d0bqm1145

7. Release the clamp, and then remove the 2 connectors.

x1, x1 d0bqm1146

8. Remove the stapler unit [A].

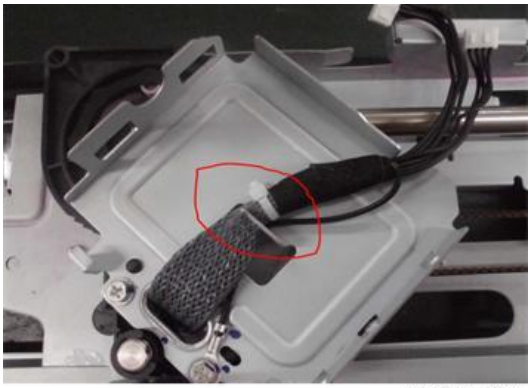
Be sure to open the paper guide [B] and its catches on the unit.



d0bqm1147

Important

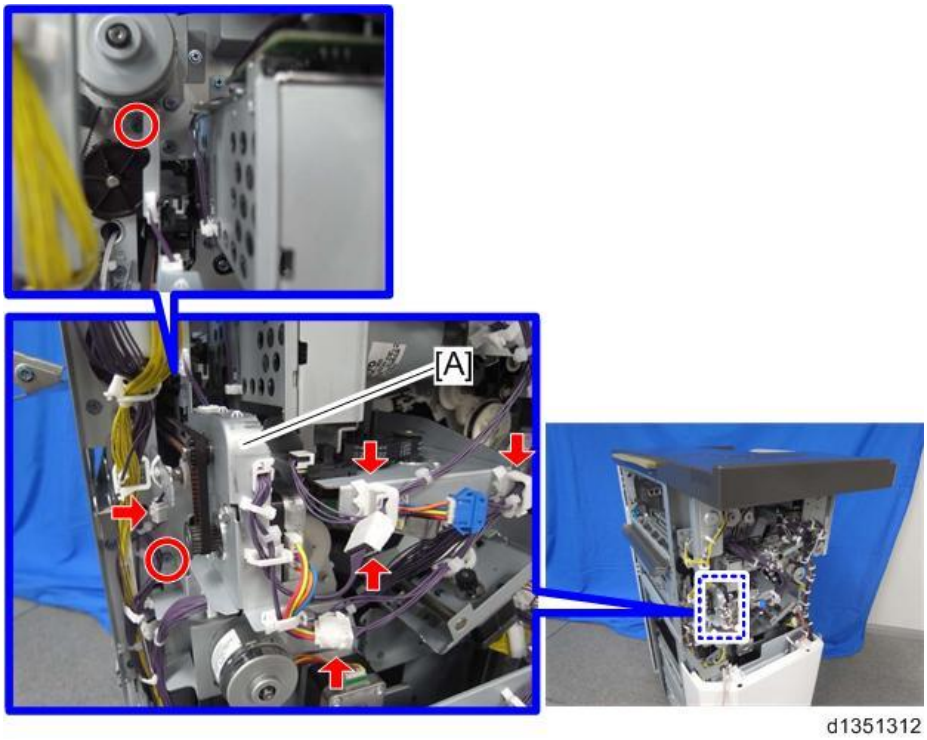
- When removing the stapler unit, make sure to leave the harness of stapler unit is hooked at the position with red circle as shown below.



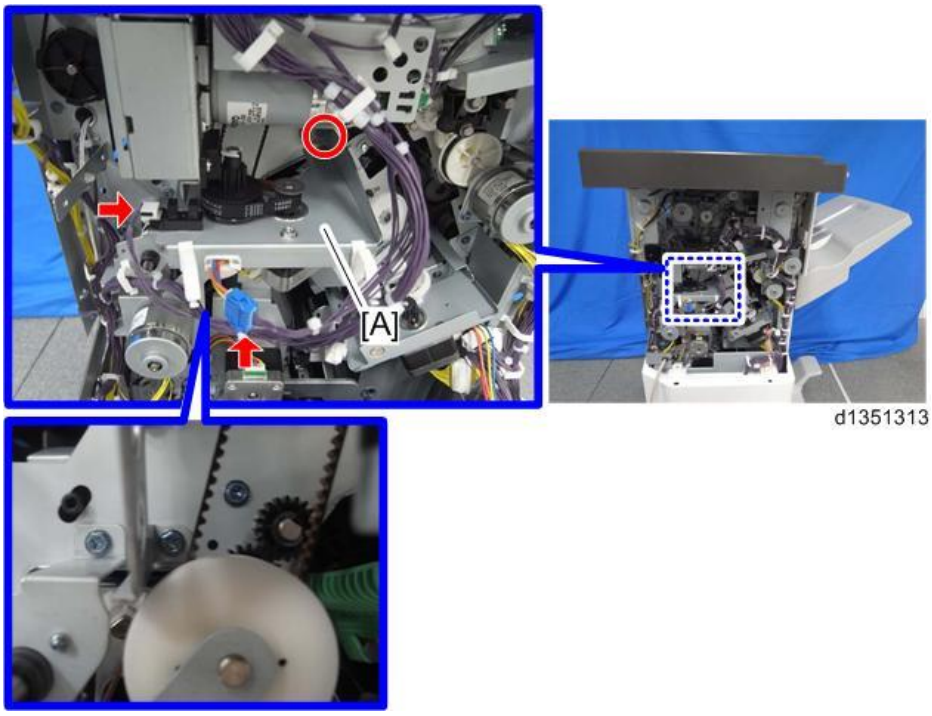
d0bqm0545

Punch Unit

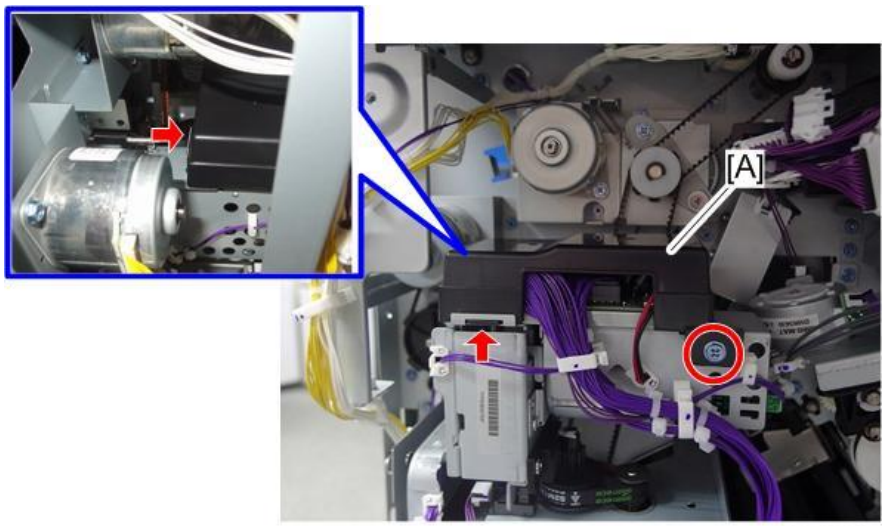
1. Remove the following covers.
   - Rear Upper Cover (Rear Upper Cover, Rear Lower Cover)
   - Rear Lower Cover (Rear Upper Cover, Rear Lower Cover)
2. Remove the side-to-side detection unit [A] (x 2, x 3, x 2).



3. Remove the stepper motor bracket [A] (x 1, x 2)



4. Remove the punch unit controller board cover [A] (x1, x2).



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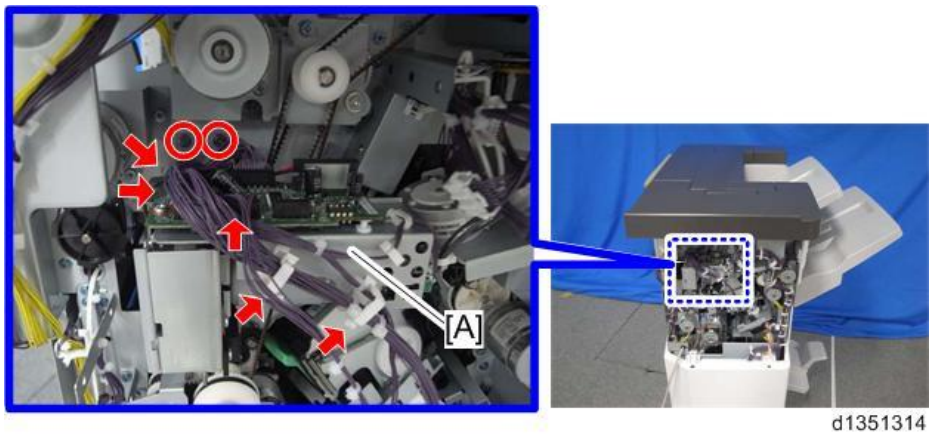
5. Pull out the punch unit [A] (x 2, x 3, x 2).



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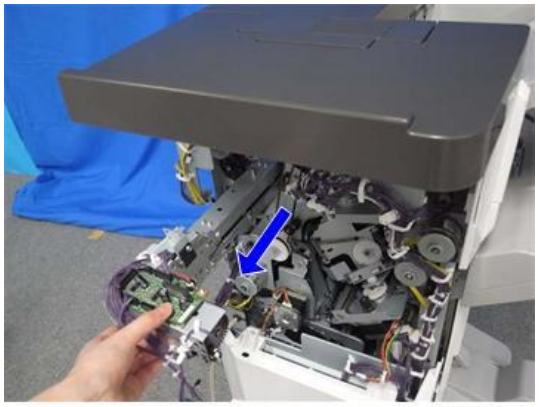

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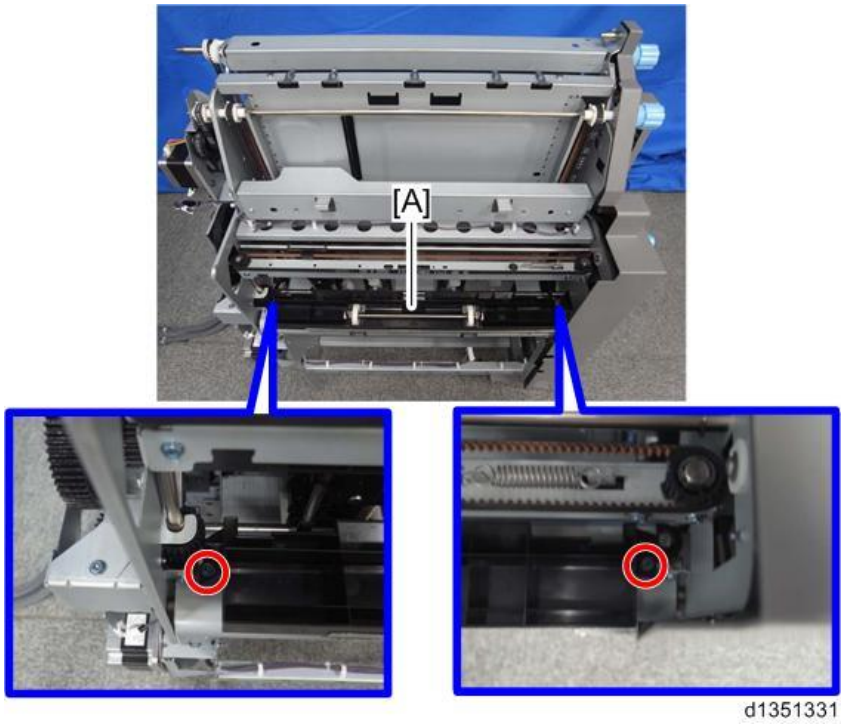
Fold Adjustments

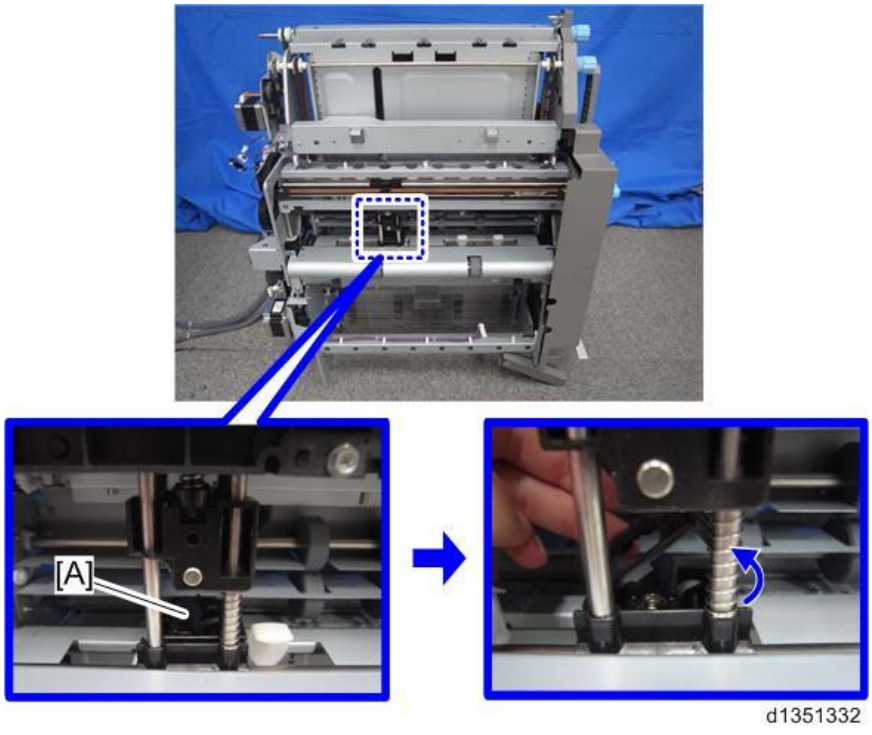
Adjusting the Alignment of the Flat Fold Rollers

Folding strength can be adjusted by adjusting the difference in the vertical alignment between the flat fold rollers.

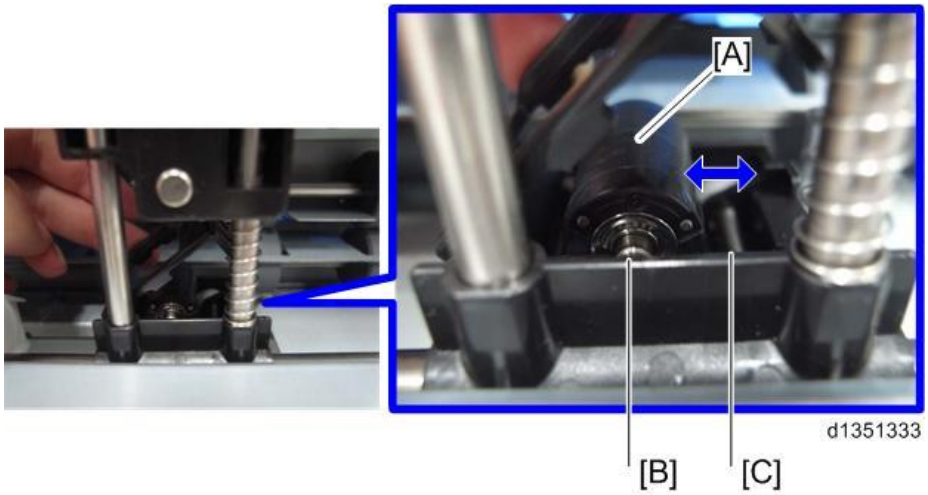
1. Remove the saddle stitch unit (Saddle Stitch Unit).
2. Remove the fold plate bracket [A] (x 2)

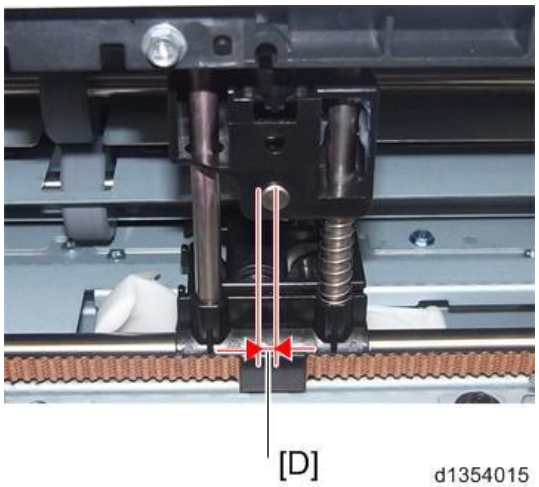


3. Open the bracket [A] of the flat fold roller.



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

- By default, the upper and lower rollers of the flat fold booklet unit are not aligned vertically. There is a 3 mm 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 0 mm. In this case, the upper and lower rollers are aligned vertically.
- If toner flakes off along the fold on the booklet as a result of excessive folding (folding was too strong), change the lower roller position to [C]. In this position, the booklet will be thicker than the factory default position.
- To increase the folding strength, the lower roller position should be at [B] (factory default position). Stronger folding will make the booklet thinner.
- To reduce the folding strength, the lower roller position should be at [C] (the difference in alignment is 0 mm). Weaker folding will make the booklet thicker.

Difference in Alignment and Folding Strength

Difference in Alignment	Folding Strength	Thickness of the booklet	The amount of toner on the fold
3mm (default)	Strong	Thin	Acceptable
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. 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 using 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		

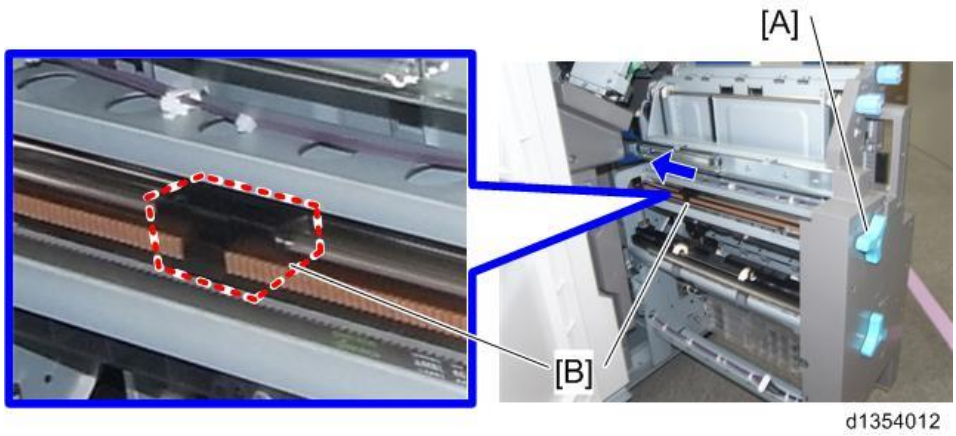
3. Exit the SP mode.

Flat Fold Booklet Unit Home Position Adjustment

1. Pull out the saddle stitch unit [A].

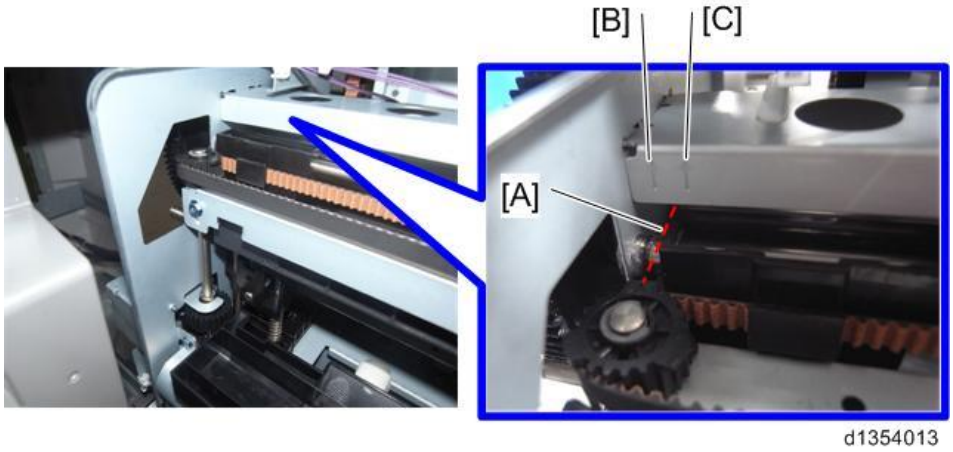
2. Remove the timing gear [A] (x 1).

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

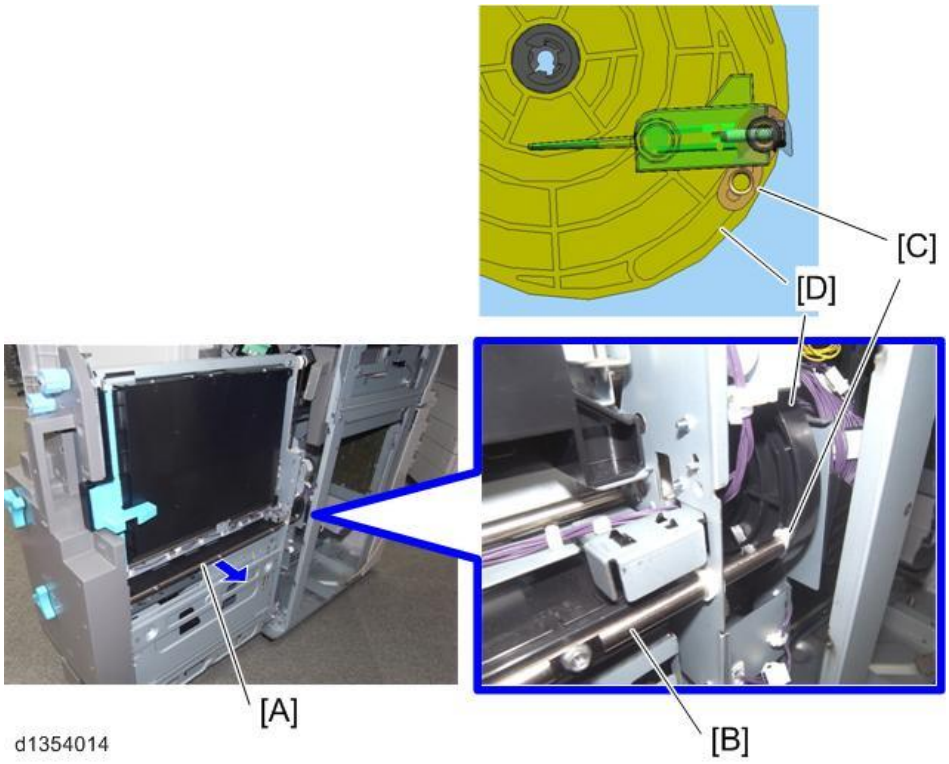


4. Move the flat fold roller unit until the edge of the unit [A] is between the guide lines [B] and [C]

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).

7. Reassemble the finisher and connect it to the main machine.

8. Turn ON the power of the main machine.

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.