











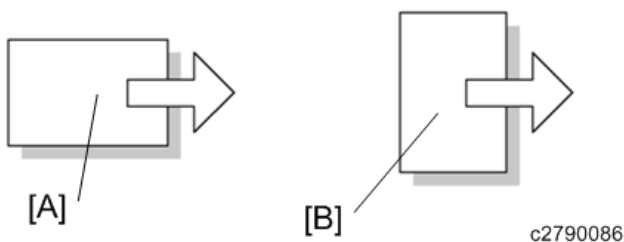
Output Jogger Unit Type M25
Machine Code: D3CJ
Field Service Manual
Ver 1.5

Latest Release: March, 2019
Initial Release: October, 2016
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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
	Screw: Blue
	Screw: binding screw (round flathead)
	Connector
	Clamp
	E-ring
	Flat Flexible Cable
	Timing Belt
	Hook (sensors)
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)

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1. Detailed Descriptions

Specifications

Paper size:

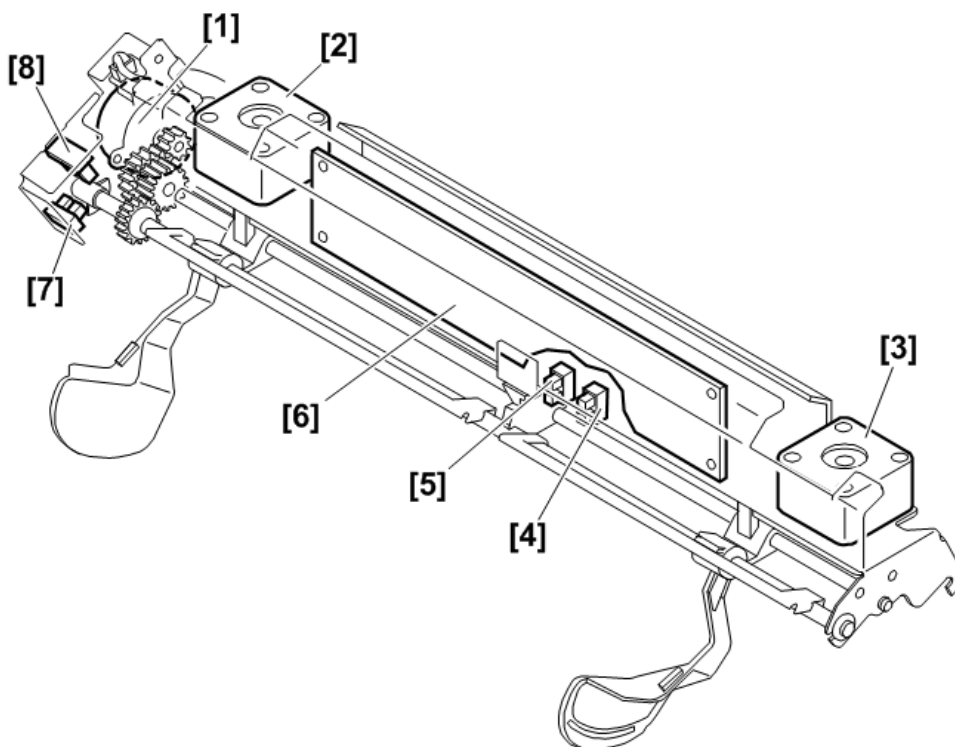
Punch unit type	Paper size
2 & 4 holes type: 2 holes	SEF: A3, A4, A5, B4 JIS, B5 JIS, 11 × 17, 8 ¹ / ₂ × 14, 8 ¹ / ₂ × 13, 8 ¹ / ₂ × 11, 8 ¹ / ₄ × 14, 8 ¹ / ₄ × 13, 8 × 13, 8 × 10, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 8K, 16K, 11 × 15, 11 × 14, 10 × 15, 10 × 14, SRA4, 226 × 310, 8 ¹ / ₂ × 13 ² / ₅ , 8 ¹ / ₂ × 13 ¹ / ₂ , custom size
2 & 4 holes type: 2 holes	LEF: A4, A5, B5 JIS, 8 ¹ / ₂ × 11, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 16K, custom size
2 & 4 holes type: 4 holes	SEF: A3, B4 JIS, 11 × 17, 8K, 11 × 15, 11 × 14, custom size
2 & 4 holes type: 4 holes	LEF: A4, B5 JIS, 8 ¹ / ₂ × 11, 7 ¹ / ₄ × 10 ¹ / ₂ , 16K, custom size
4 holes type: 4 holes	SEF: A3, A4, A5, B4 JIS, B5 JIS, B6 JIS, 11 × 17, 8 ¹ / ₂ × 14, 8 ¹ / ₂ × 13, 8 ¹ / ₂ × 11, 8 ¹ / ₄ × 14, 8 ¹ / ₄ × 13, 8 × 13, 8 × 10, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 8K, 16K, 11 × 15, 11 × 14, 10 × 15, 10 × 14, SRA4, 226 × 310, 8 ¹ / ₂ × 13 ² / ₅ , 8 ¹ / ₂ × 13 ¹ / ₂ , custom size
4 holes type: 4 holes	LEF: A4, A5, B5 JIS, 8 ¹ / ₂ × 11, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 16K, custom size
2 & 3 holes type: 2 holes	SEF: A3, A4, A5, B4 JIS, B5 JIS, B6 JIS, 11 × 17, 8 ¹ / ₂ × 14, 8 ¹ / ₂ × 13, 8 ¹ / ₂ × 11, 8 ¹ / ₄ × 14, 8 ¹ / ₄ × 13, 8 × 13, 8 × 10, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 8K, 16K, 11 × 15, 11 × 14, 10 × 15, 10 × 14, SRA4, 226 × 310, 8 ¹ / ₂ × 13 ² / ₅ , 8 ¹ / ₂ × 13 ¹ / ₂ , custom size
2 & 3 holes type: 2 holes	LEF: A4, A5, B5 JIS, 8 ¹ / ₂ × 11, 7 ¹ / ₄ × 10 ¹ / ₂ , 5 ¹ / ₂ × 8 ¹ / ₂ , 16K, custom size
2 & 3 holes type: 3 holes	SEF: A3, B4 JIS, 11 × 17, 8K, 11 × 15, 11 × 14, 10 × 15, 10 × 14, custom size
2 & 3 holes type: 3 holes	LEF: A4, B5 JIS, 8 ¹ / ₂ × 11, 7 ¹ / ₄ × 10 ¹ / ₂ , 16K, custom size

Paper weight:

52.3–256.0 g/m² (14.0 lb. Bond–79.9 lb. Cover)

Mechanism Descriptions

Component Layout



d223d8233

No.	Name	Description
1	Fence Lift Motor	Lowere/raises the shift jogger fences.
2	Rear Fence Motor	Shifts the rear shift jogger fence to the aligning position.
3	Front Fence Motor	Shifts the front shift jogger fence to the aligning position.
4	Front Fence Sensor	Detects the home position of the front shift jogger fence.
5	Rear Fence Sensor	Detects the home position of the rear shift jogger fence.
6	Main Board	Controls the operation of the output jogger unit.
7	Lift Sensor 2	Detects the home position of the shift jogger fences.
8	Lift Sensor 1	Detects the home position of the shift jogger fences for the paper aligning operation.

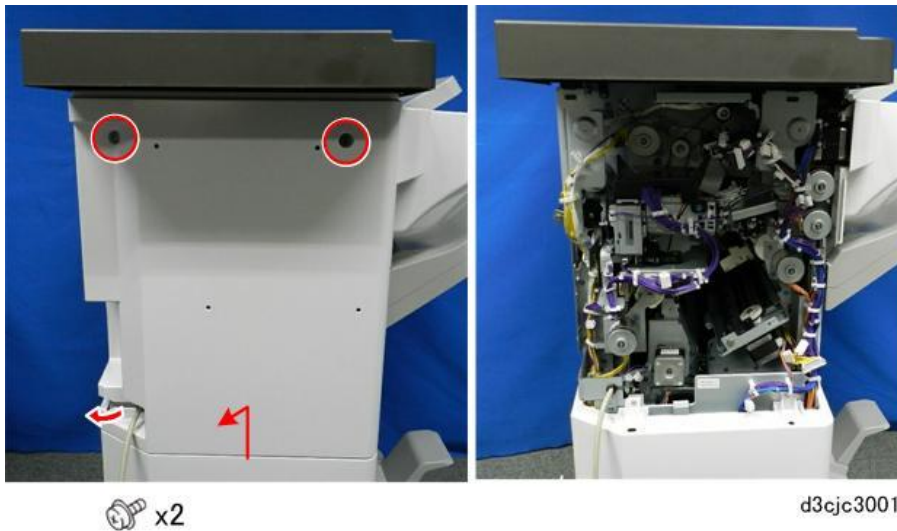
Mechanism Details

The shift jogger fences wait at the home position (above the paper exit of the finisher shift tray), and then they are lowered just before the finisher discharges the paper. After the paper is discharged, the shift jogger fences align the side edges of the paper. After the discharge of the copy sets is finished, the shift jogger fences are raised in order to return to its home position. The shift jogger fences are lowered/raised whenever the finisher discharges the copy sets.

2. Replacement and Adjustment

Jogger Unit Removal

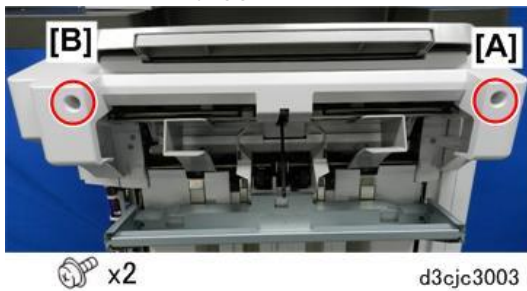
1. Remove the rear cover.



2. Remove the shift tray.

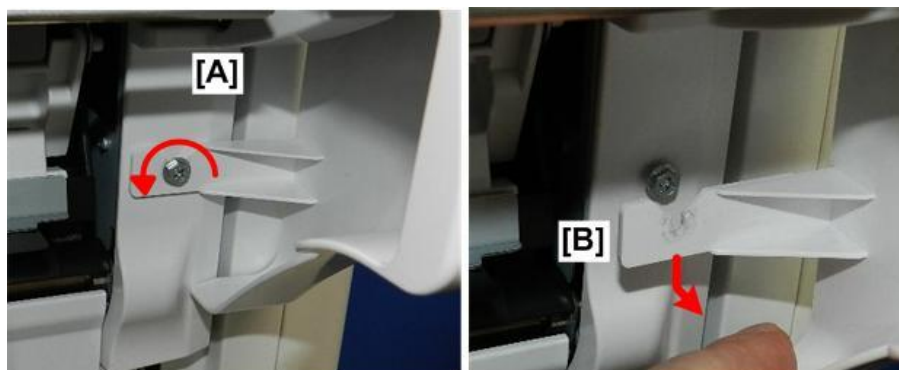


3. Disconnect the jogger unit cover at the front [A] and rear [B].



4. Below the front end of the jogger unit cover [A], loosen the screw (do not remove).

5. Pull the V-notch of the arm [B] out from under the loosened screw.



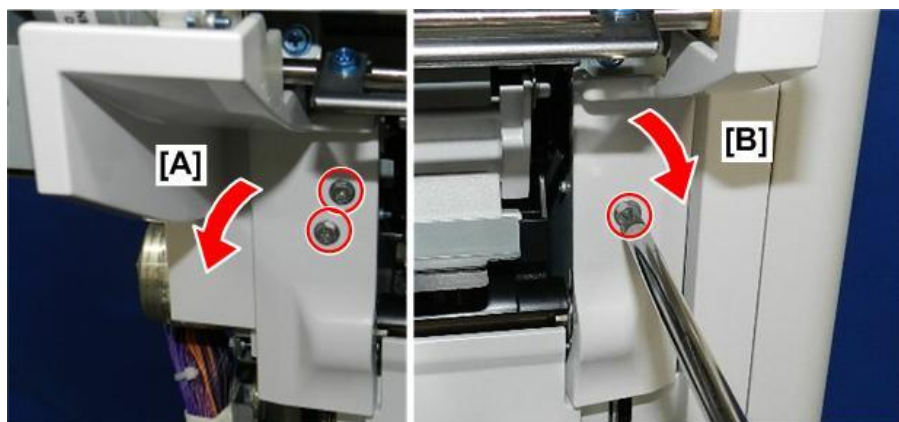
d3cjc3004

6. Remove the jogger unit cover.



d3cjc3005

7. Remove rear end cover [A] and front end cover [B].

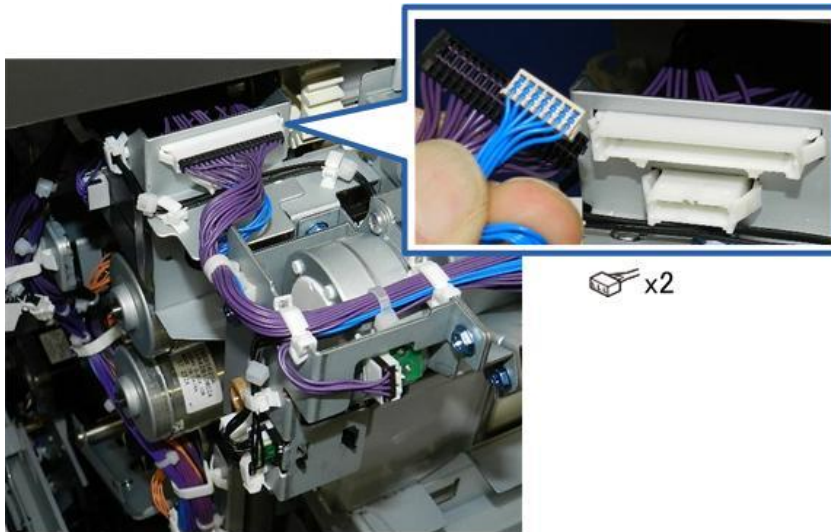


 x3

d3cjc3006

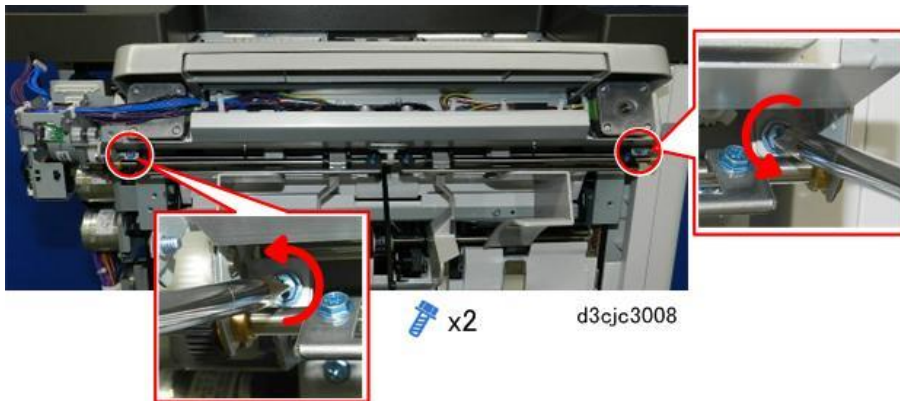
2.Replacement and Adjustment

- 8.** At the rear, disconnect the jogger unit.



d3cjc3007

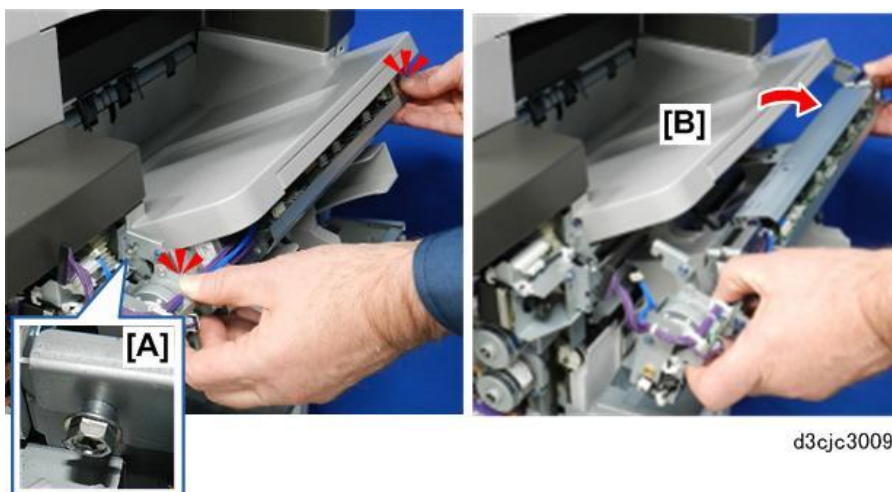
- 9.** Disconnect the jogger unit at the front and rear.



d3cjc3008

- 10.** The jogger unit hangs on two shoulder screws [A] (one at the front and one at the end).

- 11.** Lift the jogger unit [B] off the shoulder screws and remove it.



d3cjc3009

- 12.** Lay the jogger unit on a flat, clean surface.



d3cjc3010

Sensors

Front Fence Sensor, Rear Fence Sensor

1. Remove the jogger unit. ([Jogger Unit Removal](#))
2. The front fence sensor and rear fence sensor are mounted on the sensor bracket at the center of the unit.

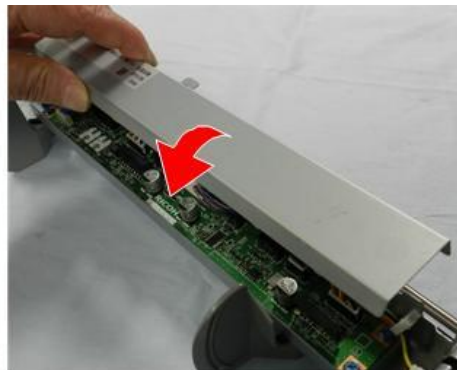


d3cjc3045

3. Remove the top cover.

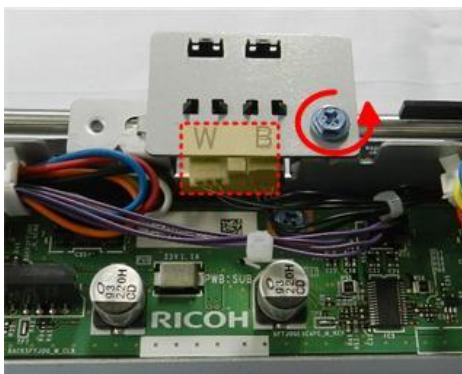


 x1

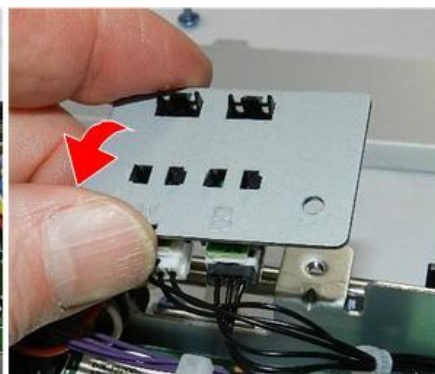


d3cjc3011

4. Disconnect the sensor bracket.

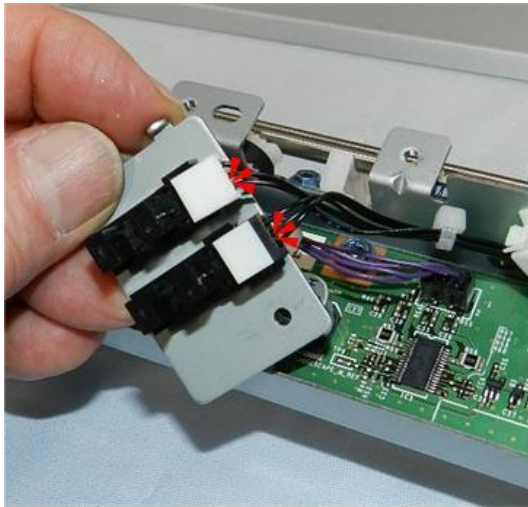


 x1



d3cjc3017

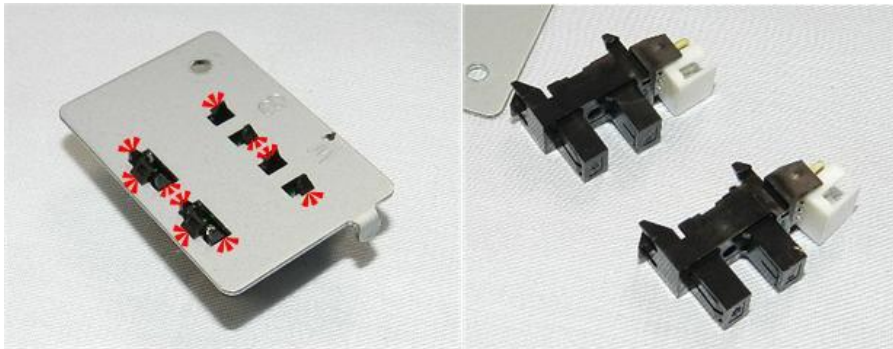
- 5.** Disconnect the sensors.



x2

d3cjc3018

- 6.** Disconnect the sensors from the sensor bracket.



x10

d3cjc3019

- 7.** The sensors are identical, but when reconnecting, connect the Black connector at **B** and the White connector at **W**.



d3cjc3020

Lift Sensors

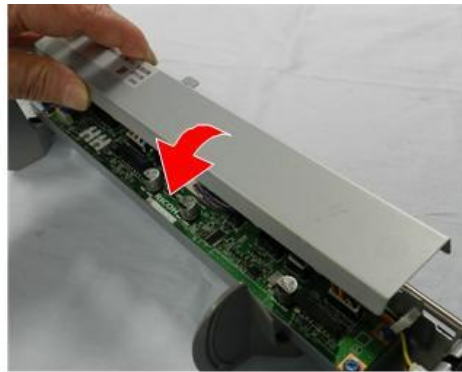
- 1.** Remove the jogger unit. ([Jogger Unit Removal](#))

2.Replacement and Adjustment

2. Remove the top cover.



 x1



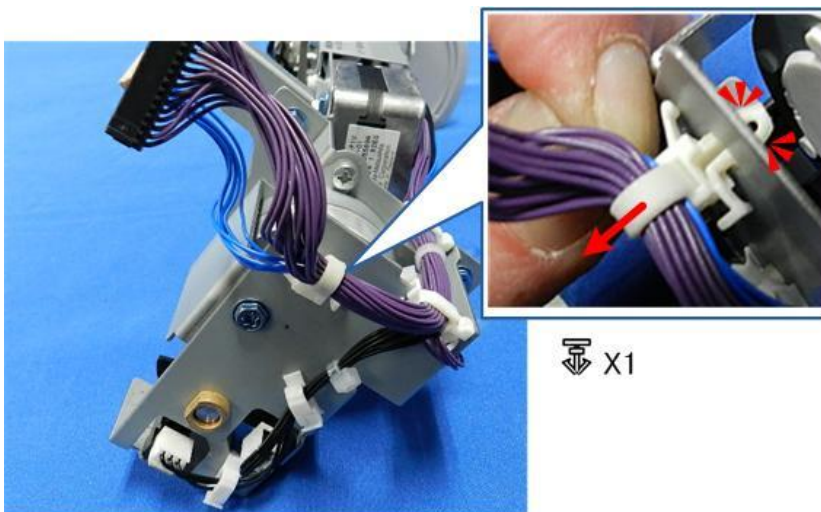
d3cjc3011

The lift sensors (the up sensor [1] and the down sensor [2]) are located at the rear end of the jogger unit.



d3cjc3046

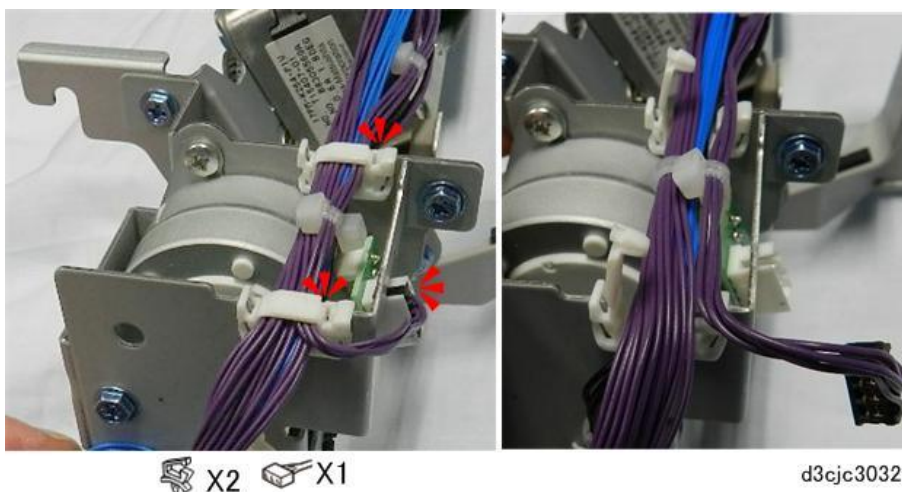
3. Disconnect the harness clamp from the plate.



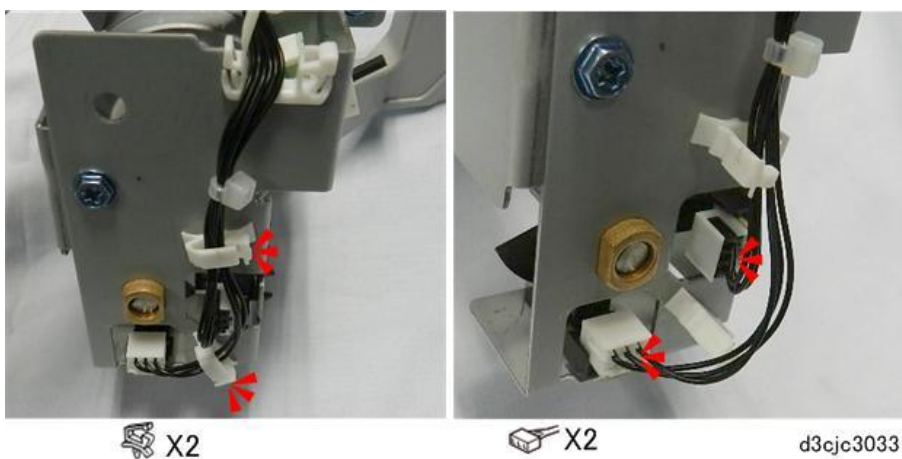
 X1

d3cjc3031

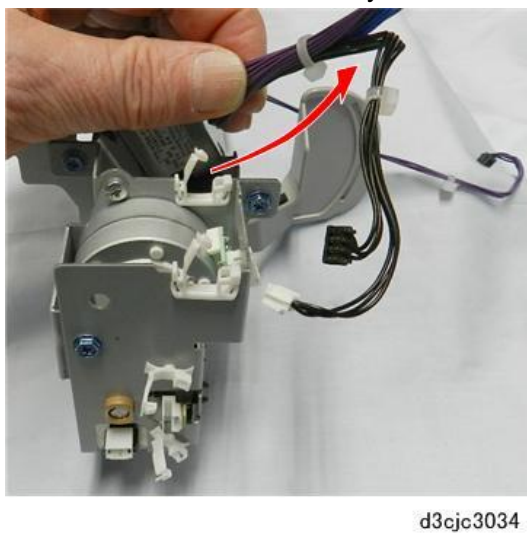
- 4.** Disconnect the lift motor and free the harnesses.



- 5.** Disconnect the lift sensors.



- 6.** Pull the freed harnesses away from the rear end of the unit.

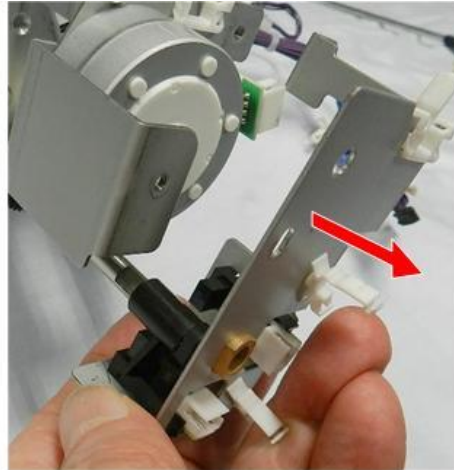


2.Replacement and Adjustment

7. Remove the rear end plate.



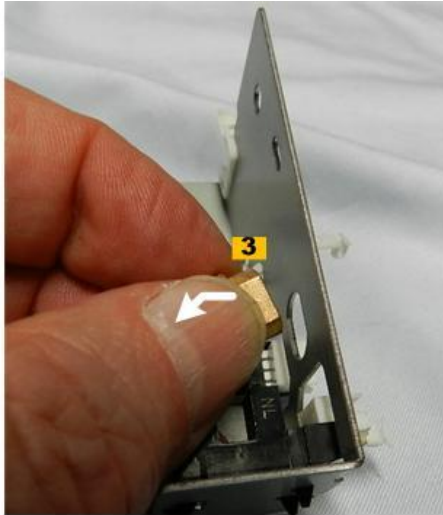
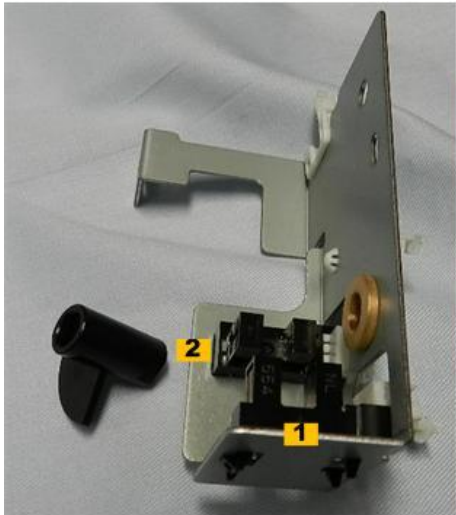
 X2



d3cjc3035

8. Set the plate aside with the actuator of the down sensor [1] and up sensor [2].

9. Remove bushing [3] so that it does not fall out and get lost accidentally.

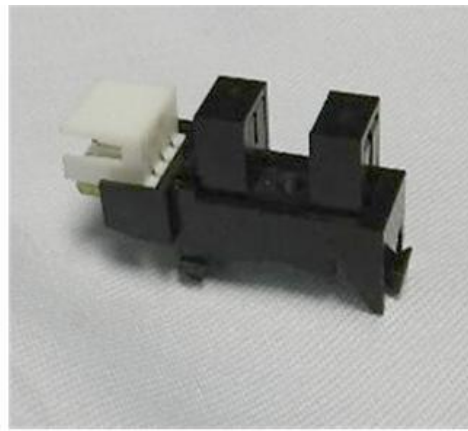


d3cjc3039

10. Disconnect the first sensor.

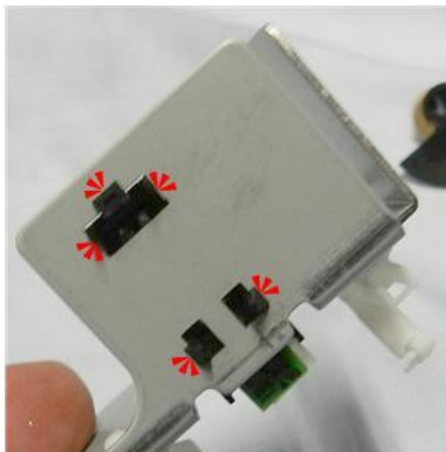


 X5

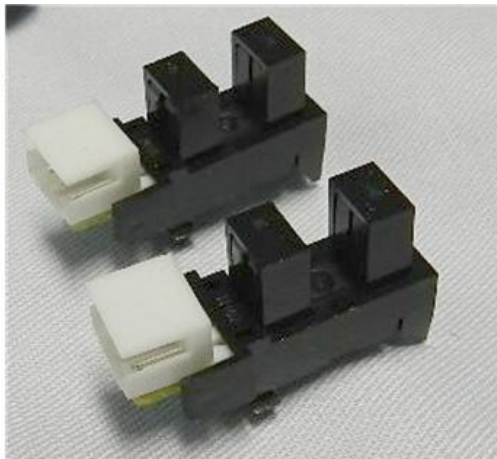


d3cjc3040

11. Disconnect the second sensor.



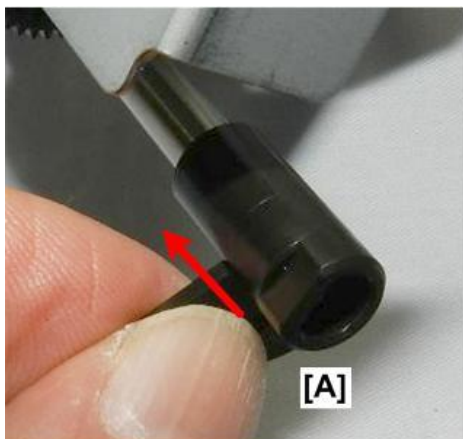
▶ X5



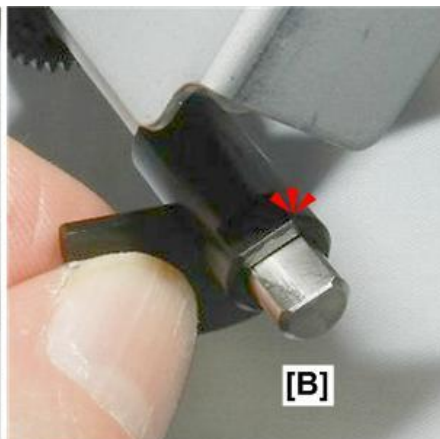
d3cjc3041

Reinstallation

- 1.** Set the long side of the actuator on the tip of the shaft [A].
- 2.** Rotate it slightly until it fits over the "D" so that you can see the end of the shaft [B].



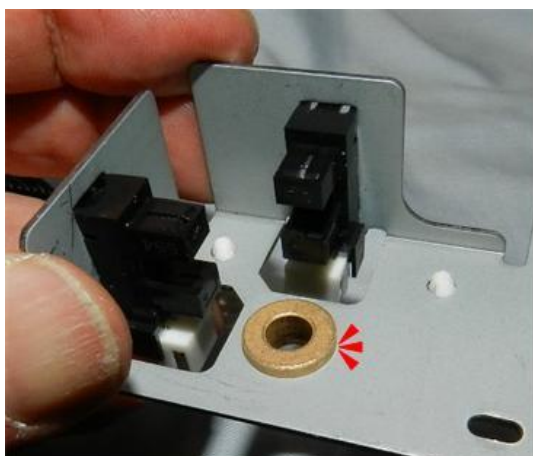
[A]



[B]

d3cjc3042

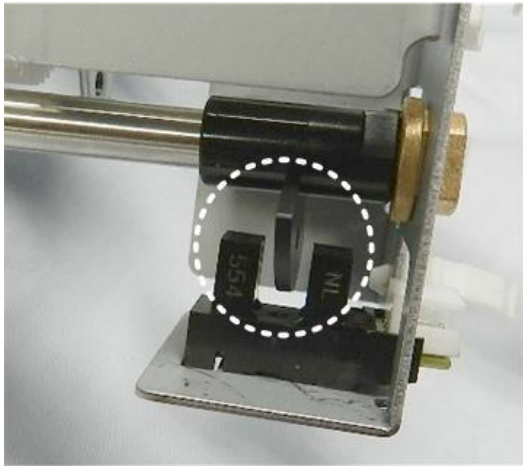
- 3.** Set the bushing in the end plate.



d3cjc3043

2.Replacement and Adjustment

- 4.** Reattach the end plate so that the actuator is in the gap of the down sensor.



d3cjc3044

Motors

Front Fence Motor

1. Remove the jogger unit. ([Jogger Unit Removal](#))
2. The front fence motor is on the front end of the unit.

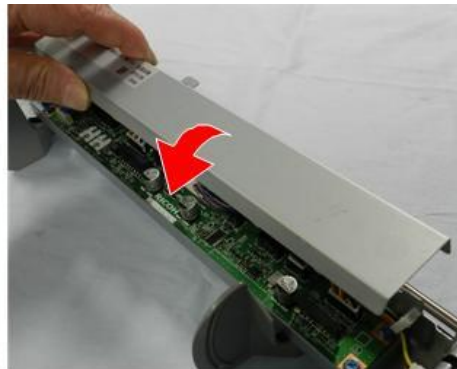


d3cjc3047

3. Remove the top cover.

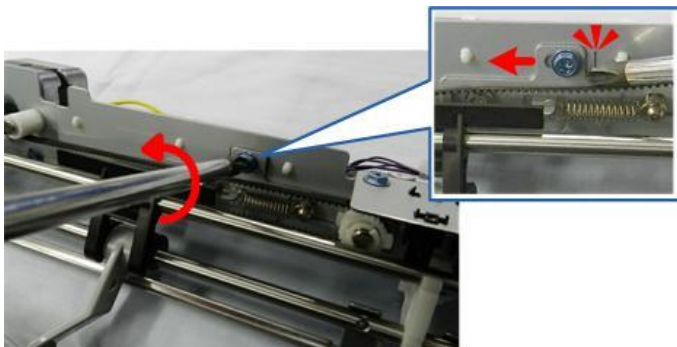


x1



d3cjc3011

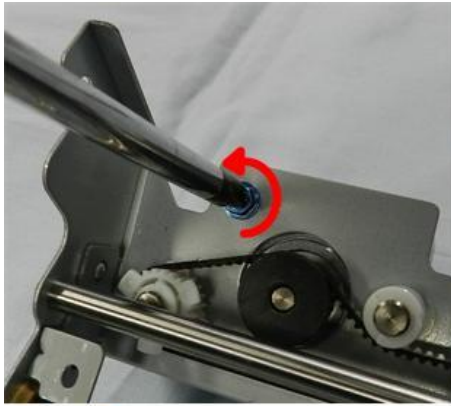
4. Loosen the tension bracket of the front fence drive belt. This will create some slack in the belt so it is easier to remove.



d3cjc3021

2.Replacement and Adjustment

5. Disconnect the front fence motor.

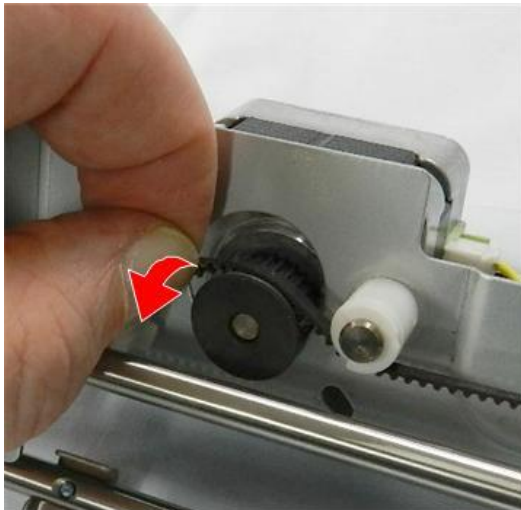


 X2



d3cjc3022

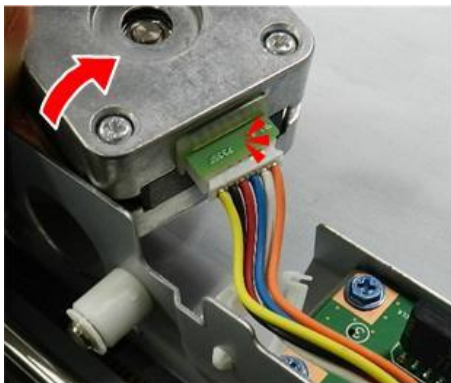
6. Disconnect the drive belt.




 X1

d3cjc3023

7. Pull the motor out and disconnect it.



 X1



d3cjc3024

- 8.** Be sure to tighten the belt tension bracket after you reinstall the motor.



d3cjc3025

Rear Fence Motor

- 1.** Remove the jogger unit. ([Jogger Unit Removal](#))
2. The rear fence motor is on the rear end of the unit.



d3cjc3048

- 3.** Remove the top cover.



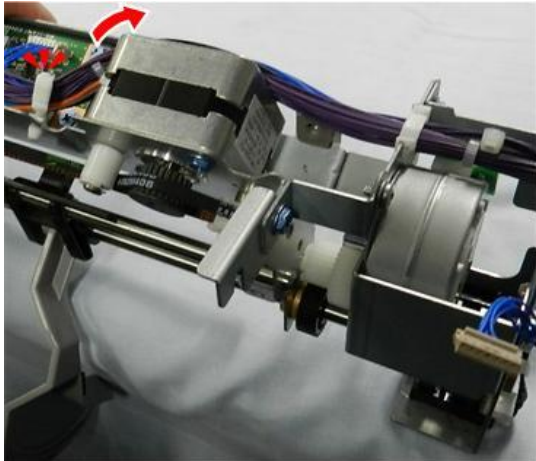
 x1



d3cjc3011

2.Replacement and Adjustment

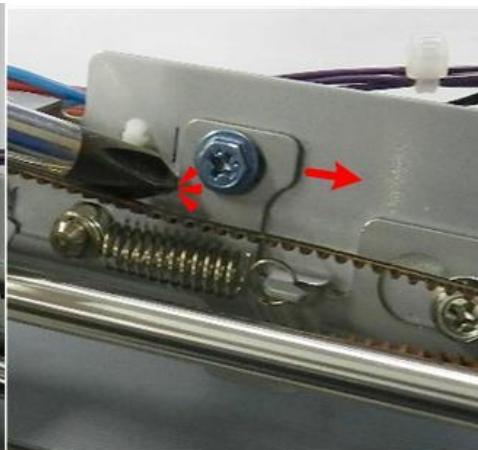
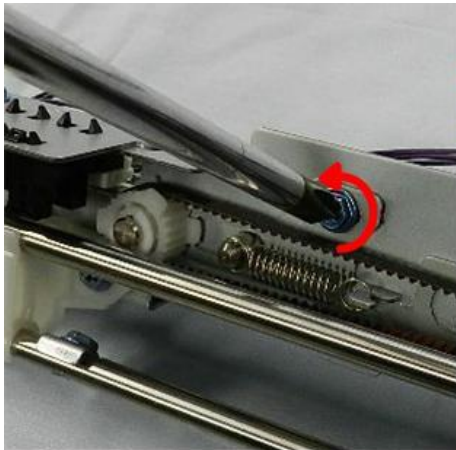
- 4.** Open the clamp and free the harness laying on top of the motor



X1

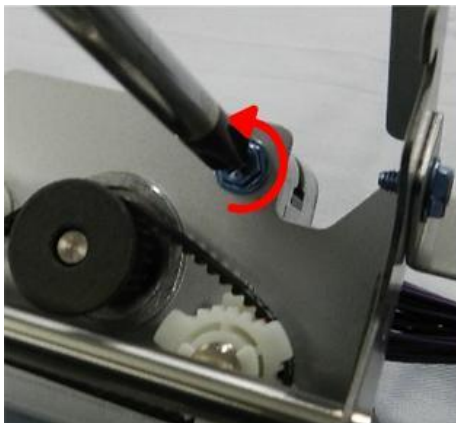
d3cjc3026

- 5.** Loosen the tension bracket of the rear fence drive belt. This will create some slack in the belt so it is easier to remove.

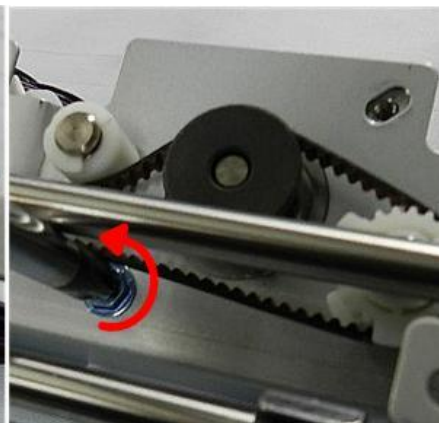


d3cjc3027

- 6.** Disconnect the motor.

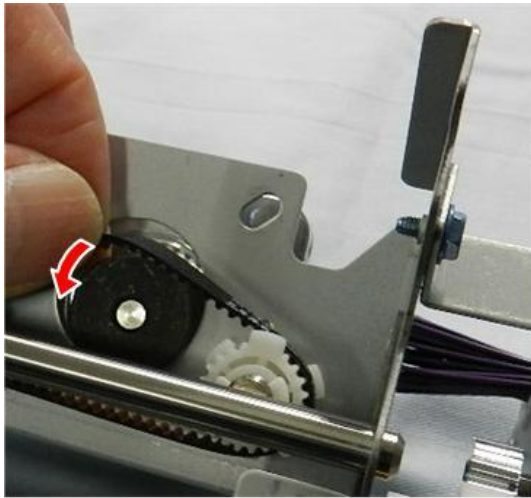


X2



d3cjc3028

- 7.** Disconnect the drive belt.



d3cjc3051

- 8.** Pull the motor out and disconnect it.



X1



d3cjc3029

- 9.** Be sure to tighten the belt tension bracket after you reinstall the motor.



d3cjc3030

Fence Lift Motor

- 1.** Remove the jogger unit.([Jogger Unit Removal](#))

2.Replacement and Adjustment

2. The fence lift motor is on the rear end of the unit.

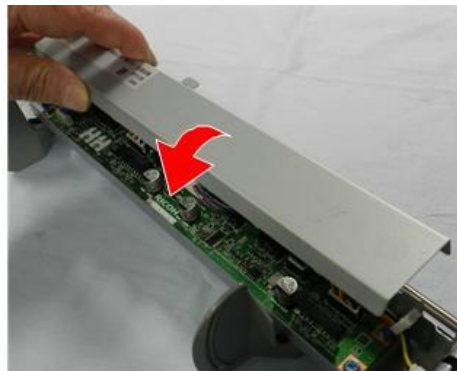


d3cjc3049

3. Remove the top cover.

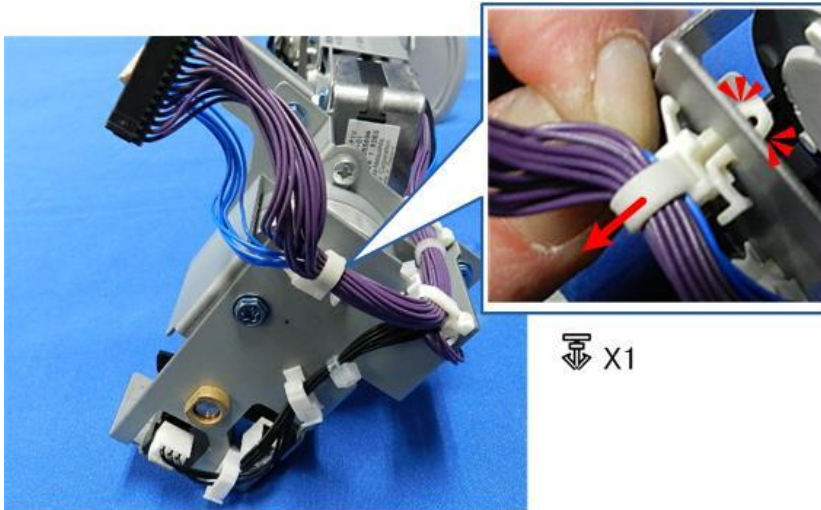


 x1



d3cjc3011

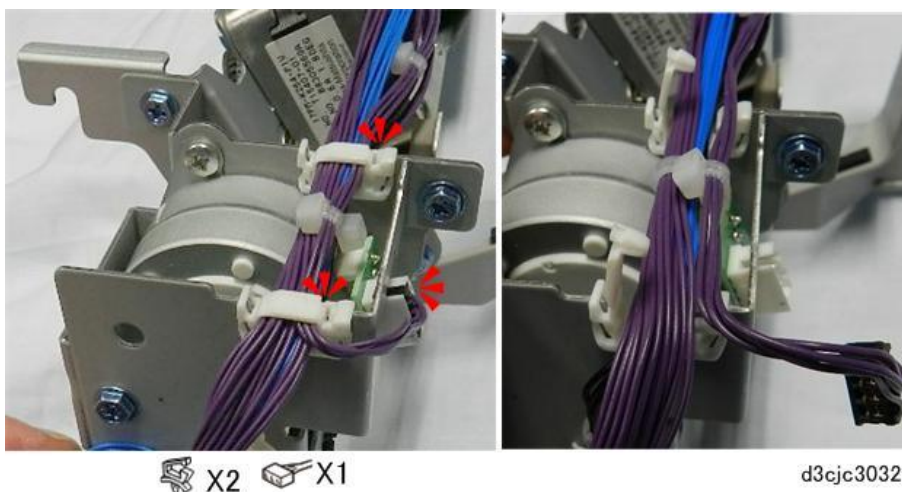
4. Disconnect the harness clamp from the plate.



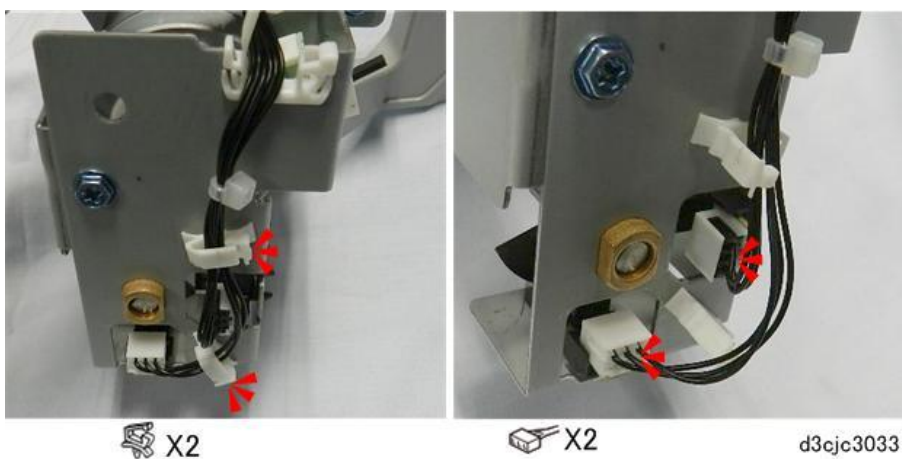
 X1

d3cjc3031

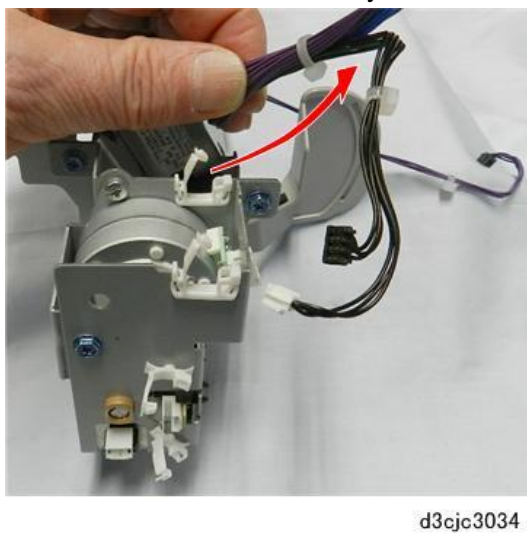
- 5.** Disconnect the lift motor and free the harnesses.



- 6.** Disconnect the lift sensors.



- 7.** Pull the freed harnesses away from the rear end of the unit.

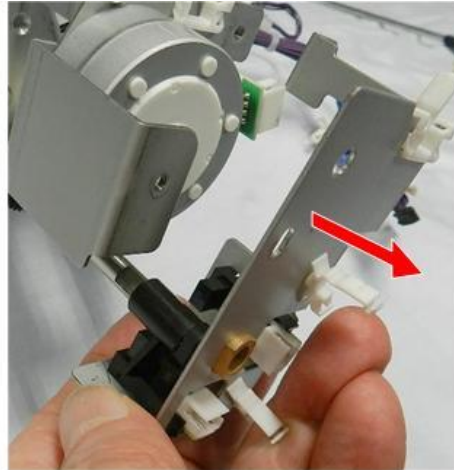


2.Replacement and Adjustment

8. Remove the rear end plate.



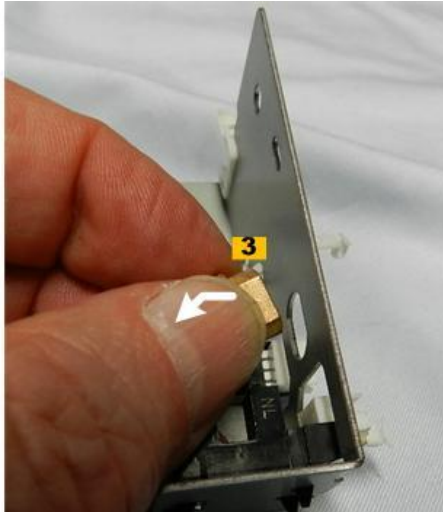
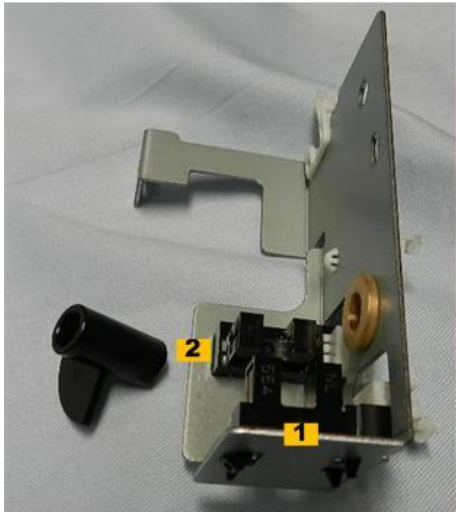
 X2



d3cjc3035

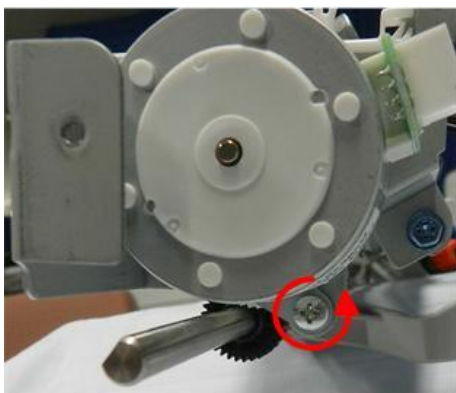
9. Set the plate aside with the actuator of the down sensor [1] and up sensor [2].

10. Remove bushing [3] so that it does not fall out and get lost accidentally.



d3cjc3039

11. Disconnect the lift motor.

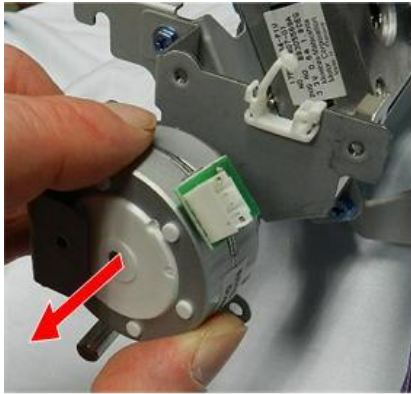


 X2



d3cjc3037

12. Remove the motor.



d3cjc3038

2.Replacement and Adjustment

Board

Main Board

1. Remove the jogger unit. ([Jogger Unit Removal](#))
2. The jogger unit control board is under the top cover.

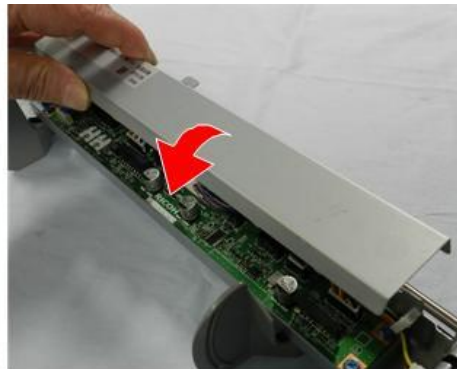


d3cjc3050

3. Remove the top cover.

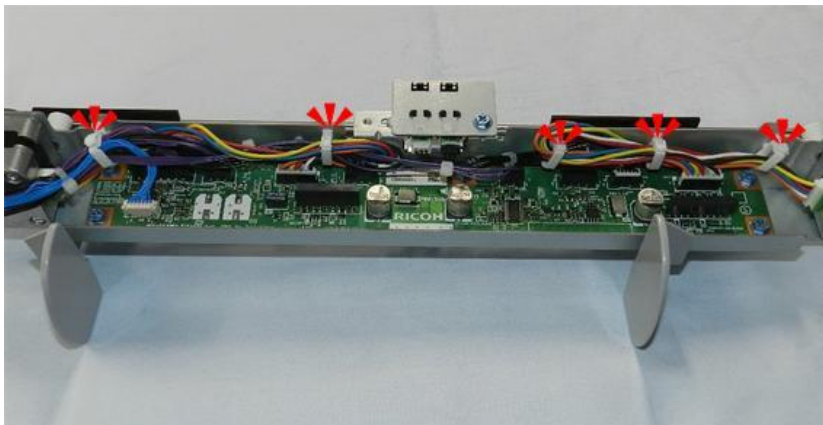


 x1



d3cjc3011

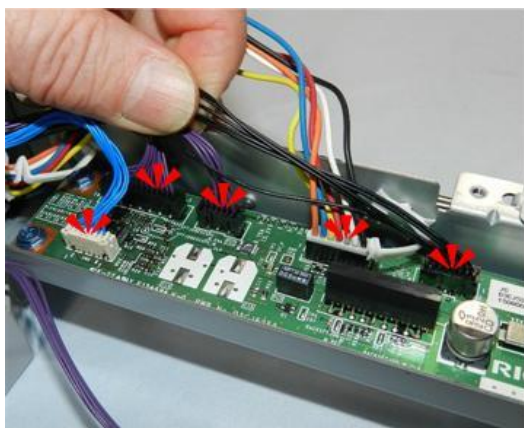
4. Open the clamps and free the harnesses.



 x5

d3cjc3012

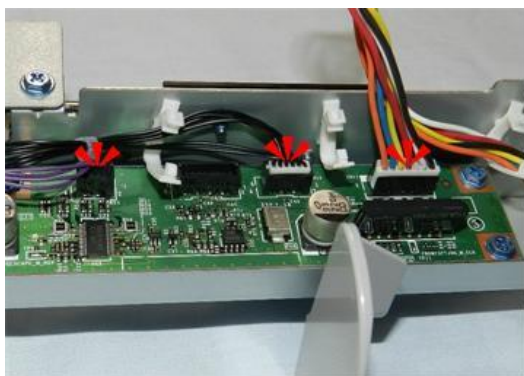
- 5.** Disconnect the rear end of the board.



 x5

d3cjc3013

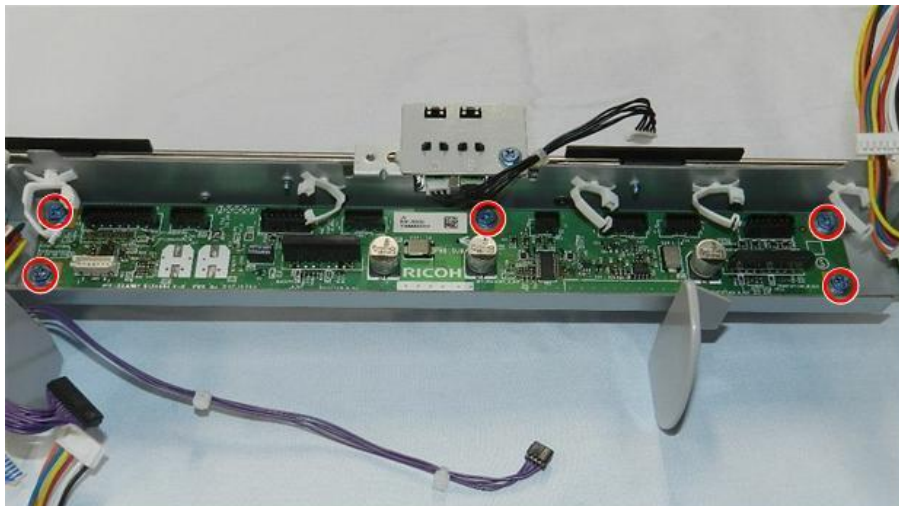
- 6.** Disconnect the front end of the board.



 x3

d3cjc3014

- 7.** Unfasten the board from the unit.

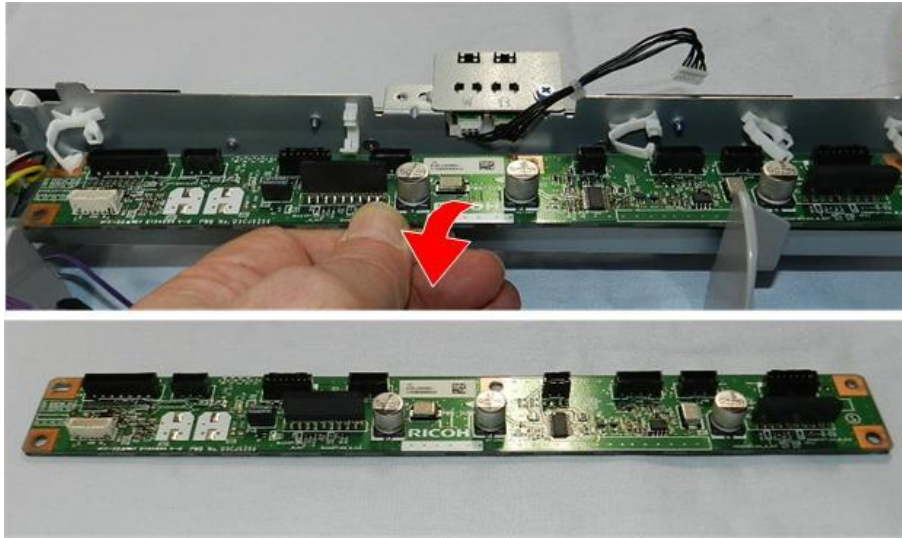


 x5

d3cjc3015

2.Replacement and Adjustment

8. Remove the board.



d3cjc3016