

Punch Kit
Machine Code: D587
SERVICE MANUAL

July, 2011
Subject to change

Safety and Symbols

Replacement Procedure Safety

Note

- Turn off the main power switch and unplug the machine before beginning any of the replacement procedures in this manual.

Symbols Used in this Manual

This manual uses the following symbols:

Symbol	Meaning
	See or Refer to
	Connector
	Clamp
	Clip ring
	E-ring
	Screw

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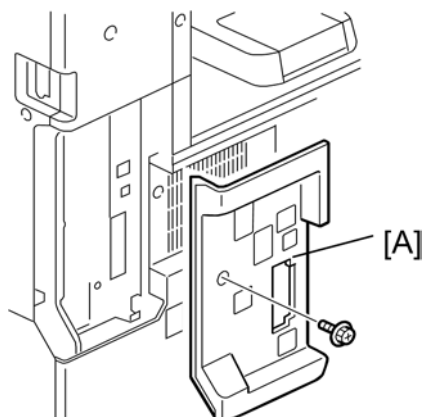
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1. Replacement and Adjustment

Electrical Components

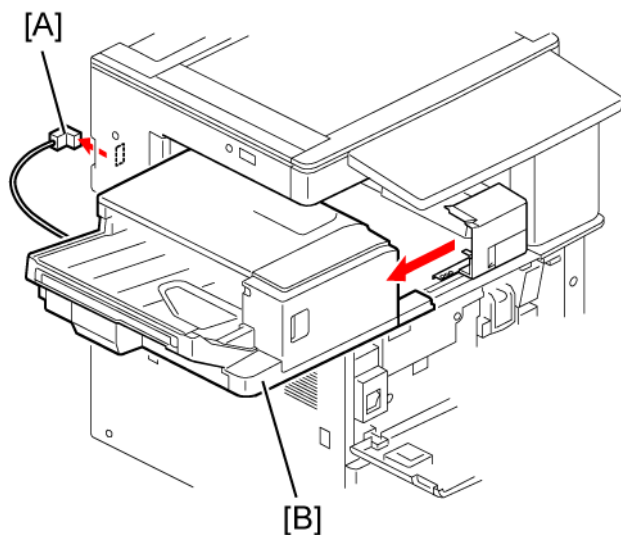
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Punch Unit



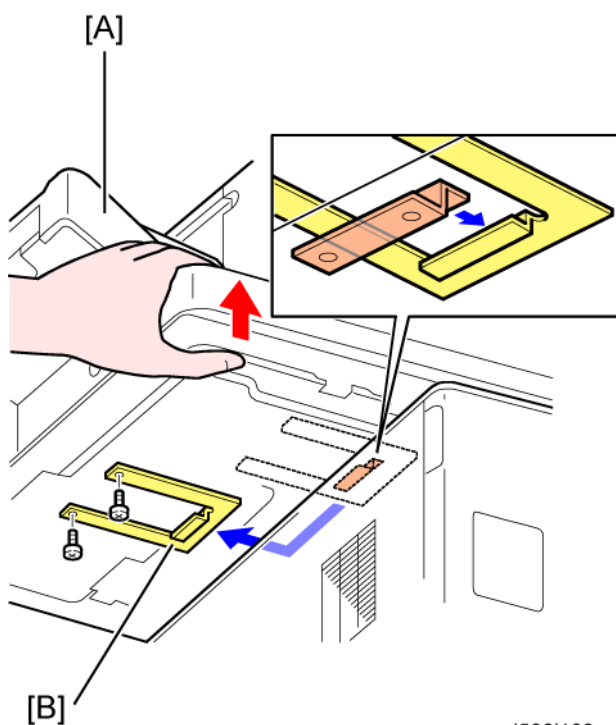
d596i501

1. Remove the controller cover [A] ( x 1).



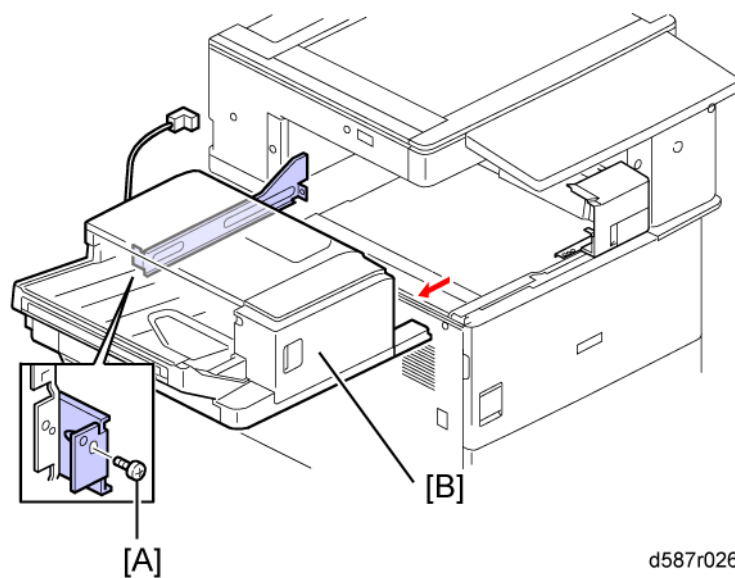
d587r027

2. Disconnect the cable [A] from the inlet of the main machine.
3. Pull out the internal finisher [B].



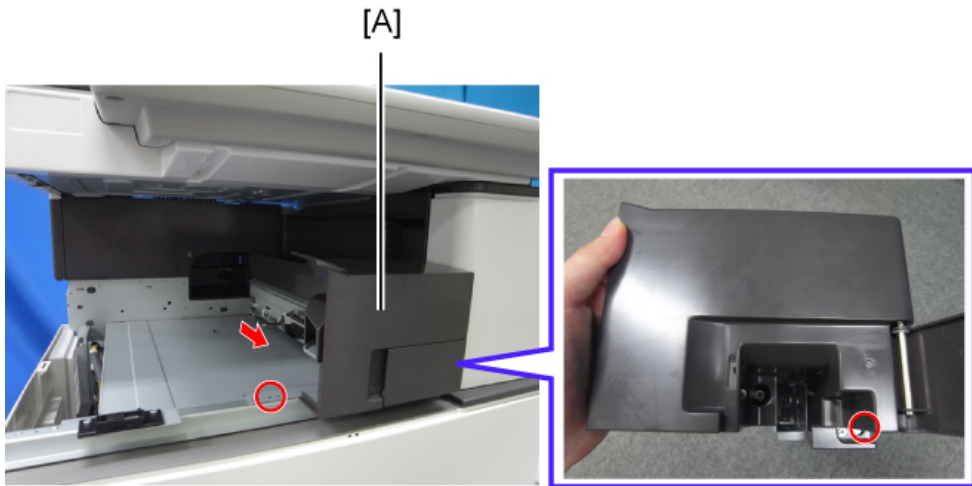
d586i109a

4. Push up the internal finisher [A] from the bottom, and then remove the stopper [B] from the bottom side of the internal finisher ( x 2).



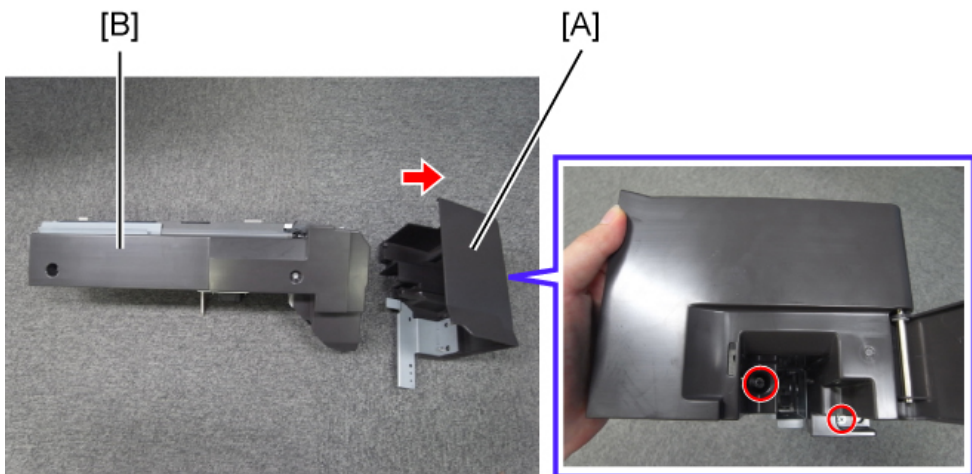
d587r026

5. Remove the screw from the rear rail [A].
6. Remove the internal finisher [B] by pulling it off the main machine.



d587r025

7. Remove the punch unit [A] from the main machine ( x 2).



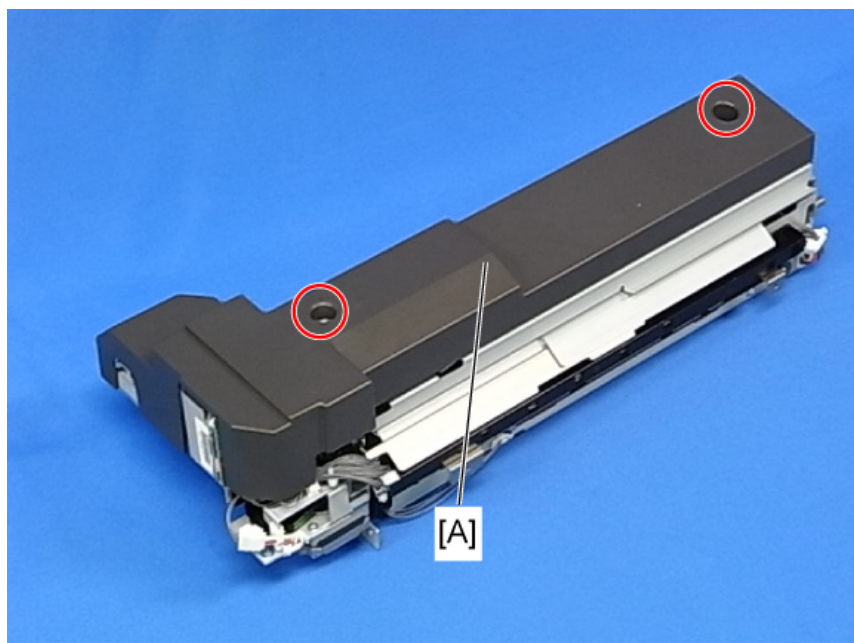
d587r028

8. Remove the punch cover [A] from the punch unit [B] ( x 2).

Controller Board

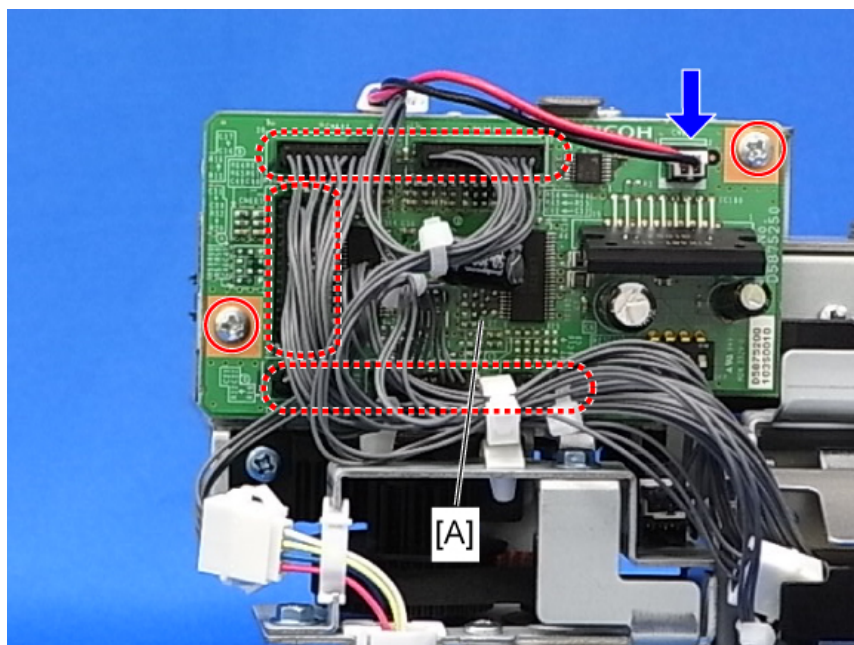
1. Remove the punch unit. ( p.3 "Punch Unit")

1



d587r001

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



d587r002

3. Replace the punch unit controller board [A] ( x 2, all  s).

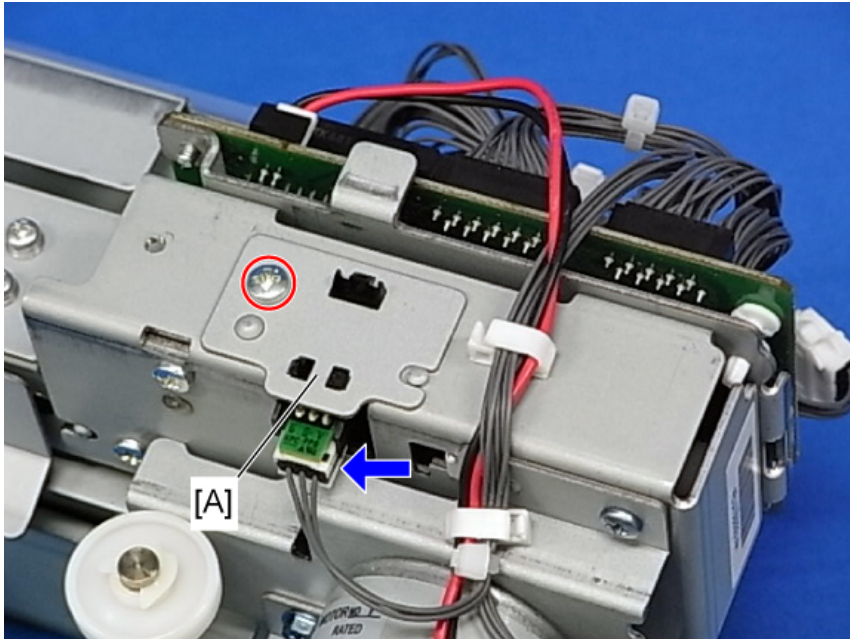
Note

- After installing the new controller board, set the DIP switches on the new controller board to the same settings as the old board.

1

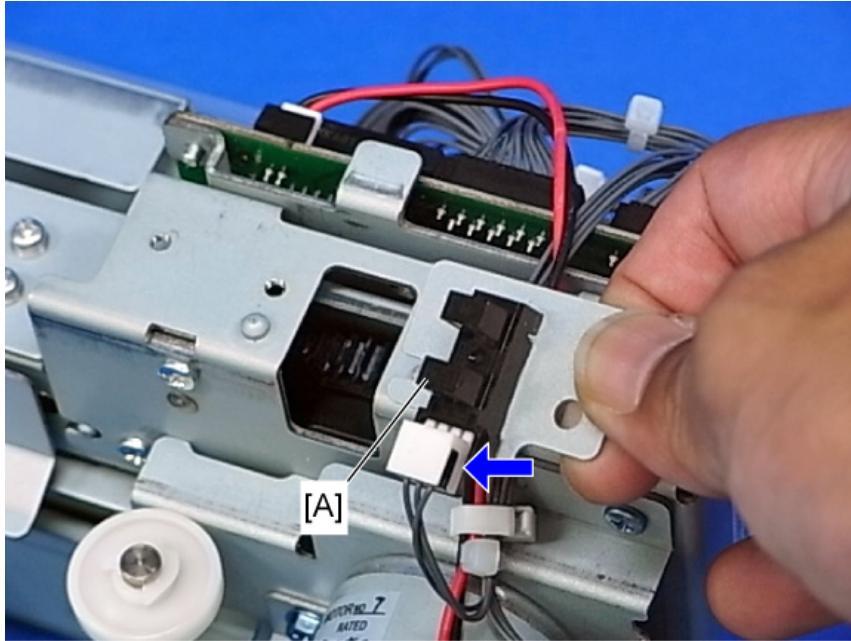
Punch Position Sensor

1. Remove the upper cover. (🔧 p.5 "Controller Board")



d587r003

2. Remove the punch position sensor assembly [A] (🔧 x 1).

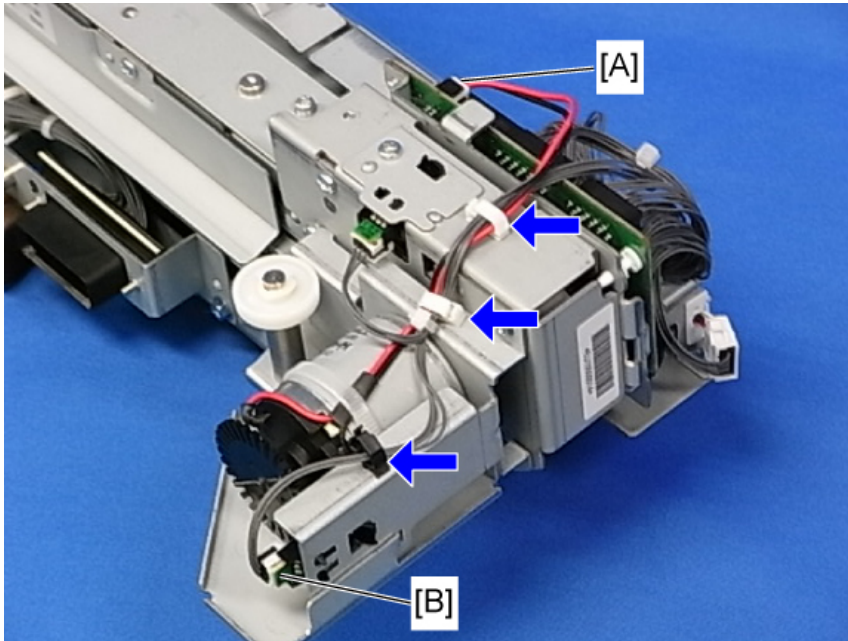


d587r004

3. Replace the punch position sensor [A] (🔧 x 1, hooks x 3).

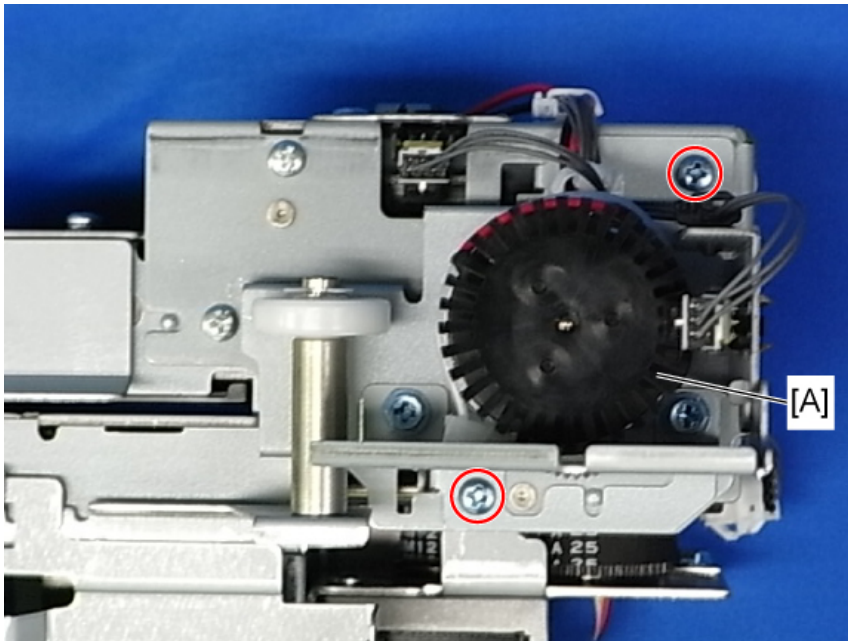
Punch Drive Motor

1. Remove the upper cover. (🔧 p.5 "Controller Board")



d587r005

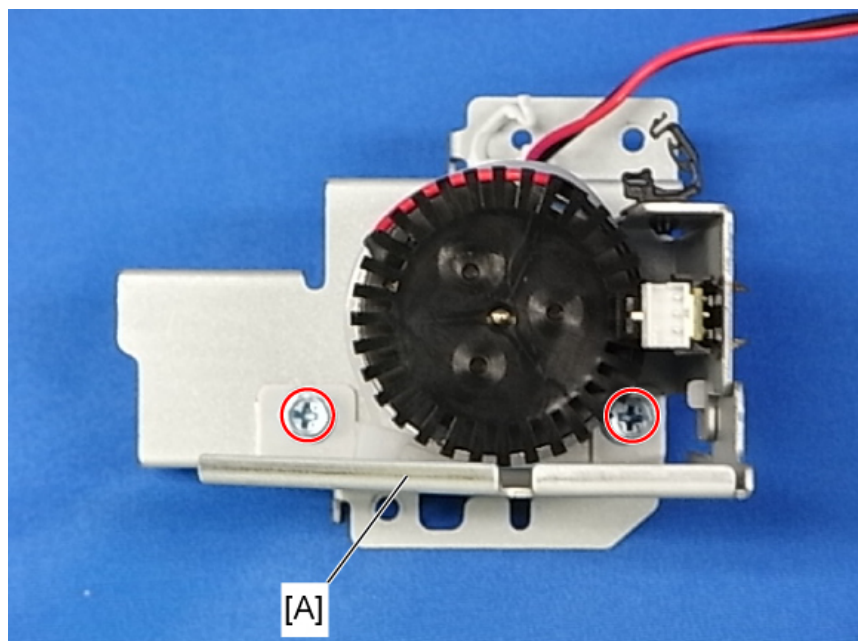
2. Disconnect the punch drive motor connector [A] and the punch encoder sensor connector [B] (🔧 x 3).



d587r006

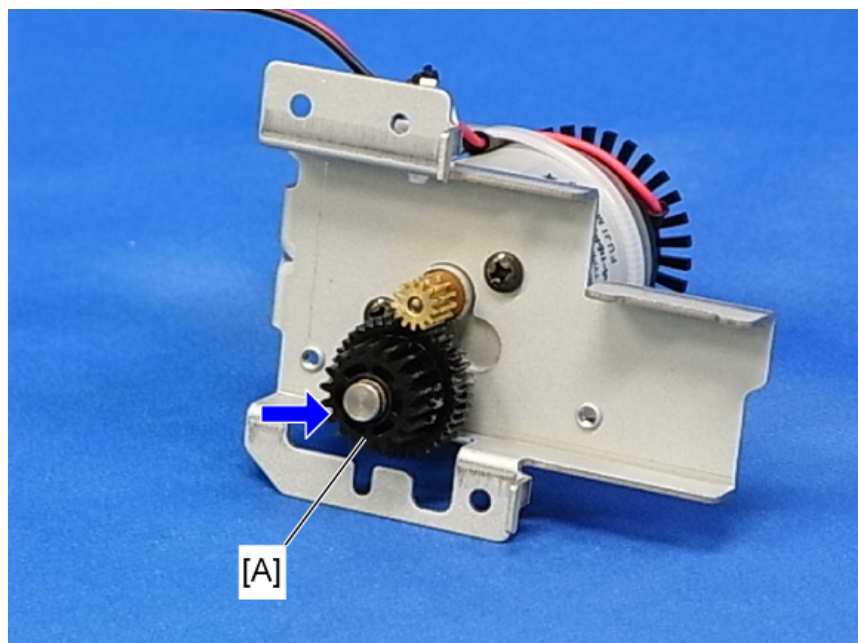
3. Remove the punch drive motor assembly [A] (🔧 x 2).

1



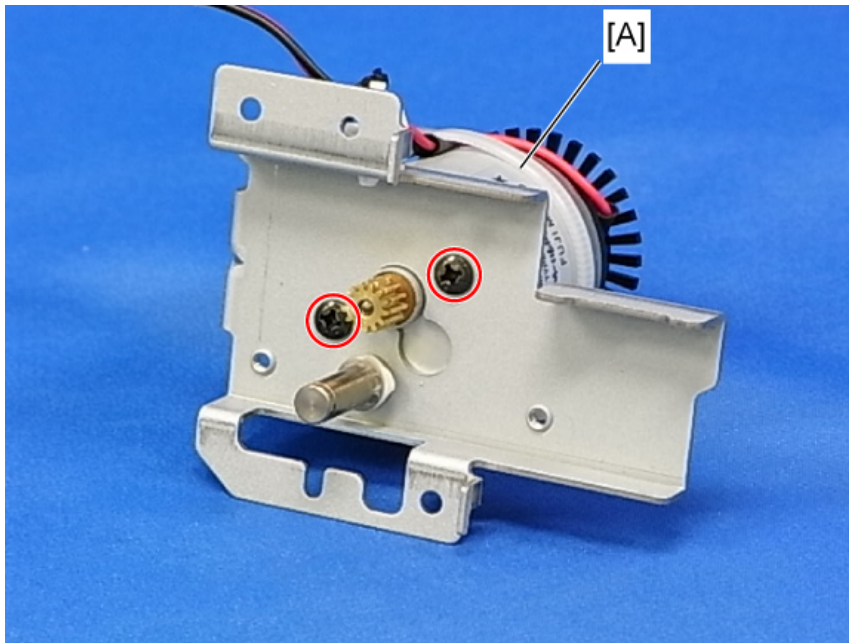
d587r007

4. Remove the motor cover [A] ( x 2).



d587r008

5. Remove the 2nd transmission gear [A] ( x 1).

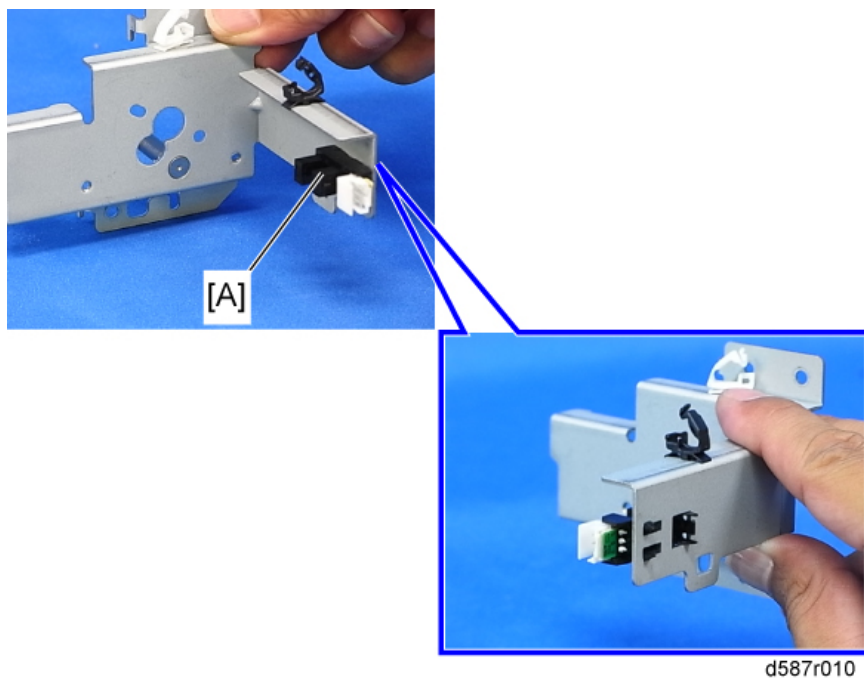


d587r009

6. Replace the punch drive motor [A] ( x 2).

Punch Encoder Sensor

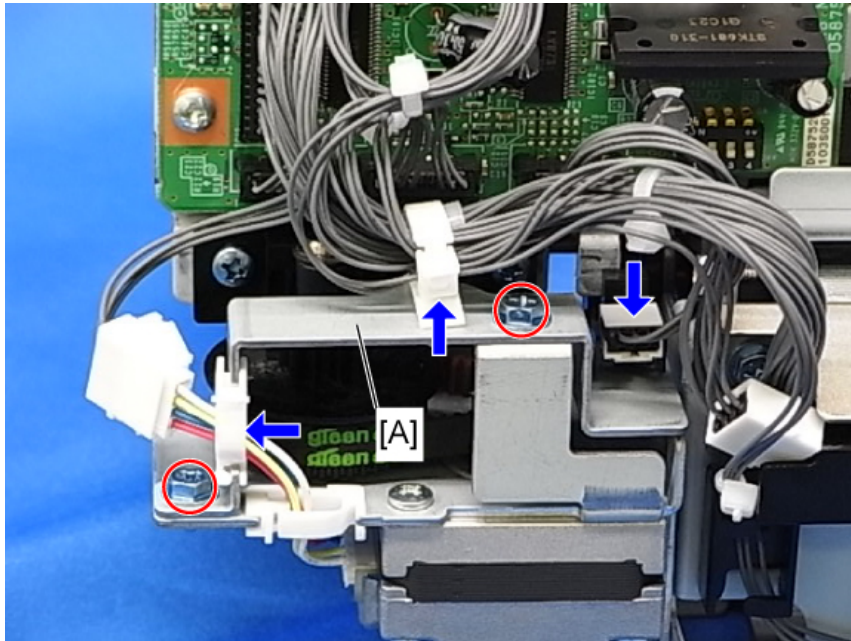
1. Remove the punch drive motor. ( p.8 "Punch Drive Motor")



2. Replace the punch encoder sensor [A] (hooks x 3).

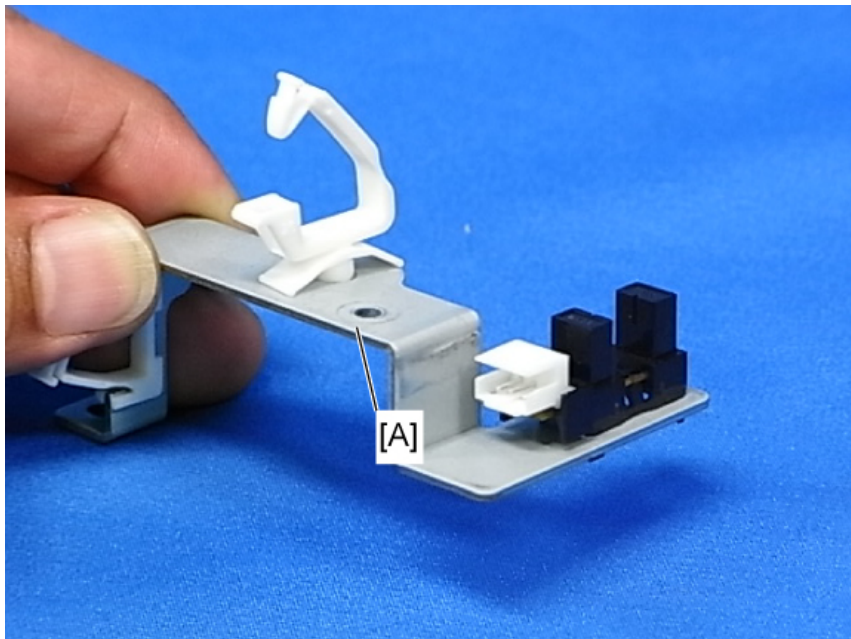
Punch Unit HP Sensor

1. Remove the upper cover. (🔧 p.5 "Controller Board")



d587r011

2. Remove the punch unit HP sensor assembly [A] ( x 2,  x 2,  x 1).



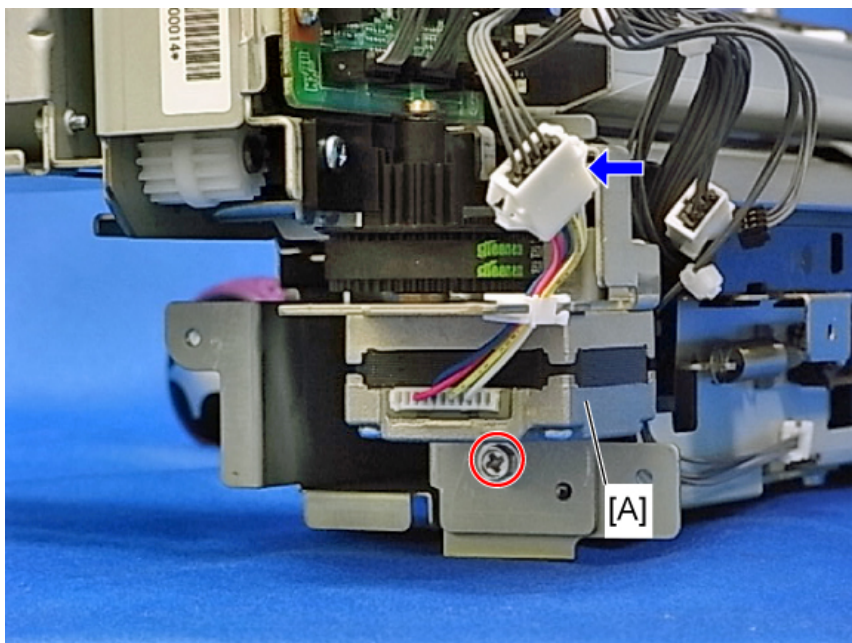
d580r012

3. Replace the punch unit HP sensor [A] (hooks x 3).

Punch Movement Motor

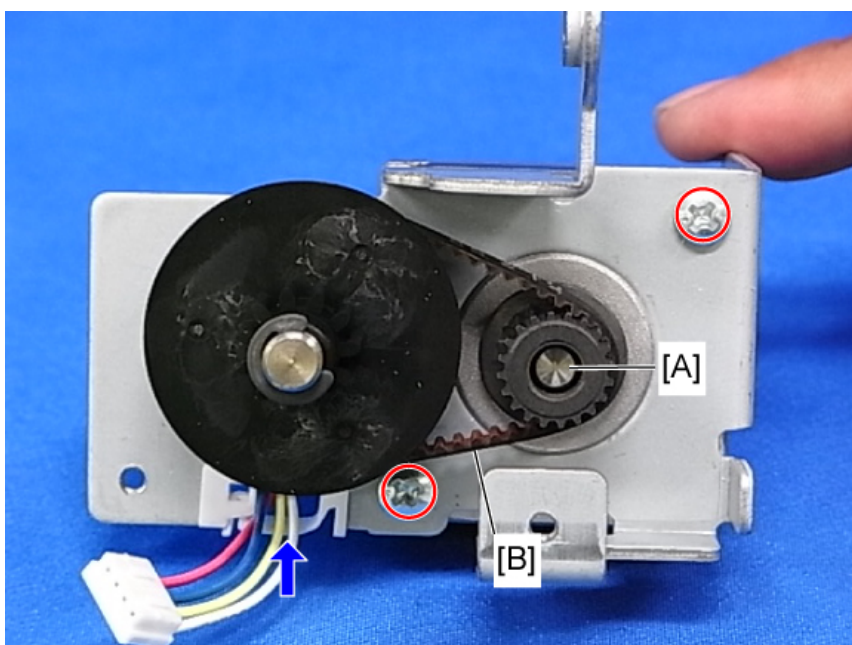
1. Remove the punch unit HP sensor assembly. (🔧 p.12 "Punch Unit HP Sensor")

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d587r013

2. Remove the punch movement motor assembly [A] (🔧 x 1, 🛠 x 1).

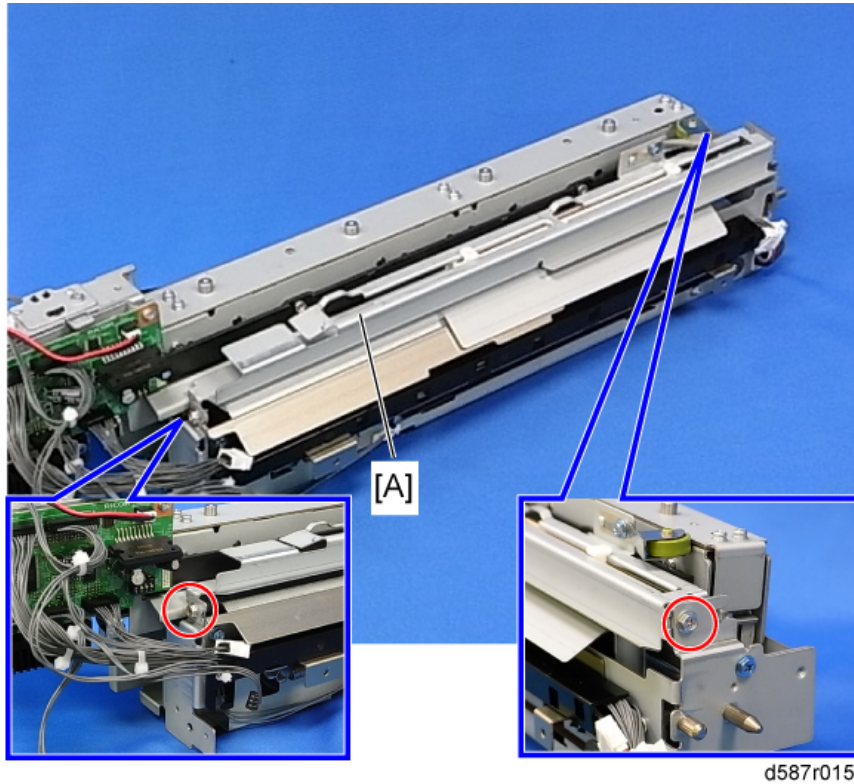


d587r014

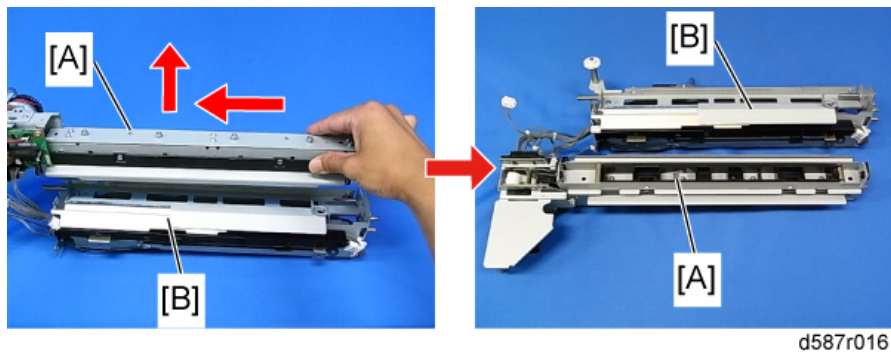
3. Replace the punch movement motor [A] (timing belt [B] x 1,  x 2,  x 1).

Punch Unit Separation

1. Remove the punch movement motor assembly. ( p.14 "Punch Movement Motor")



2. Remove the upper entrance guide plate [A] ( x 2).

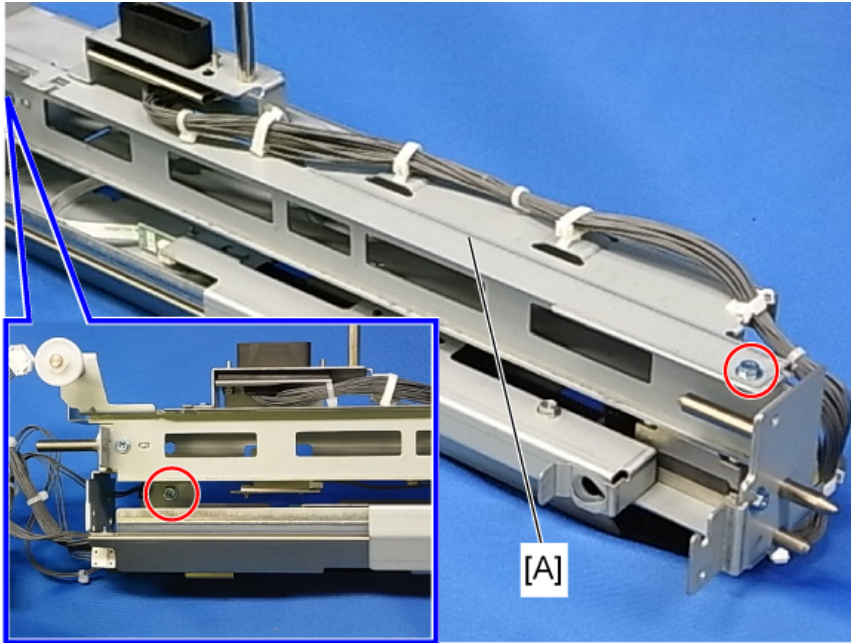


3. Slide the upper part of the punch unit [A], and separate it from the lower part [B].

Paper Position Detection Unit HP Sensor

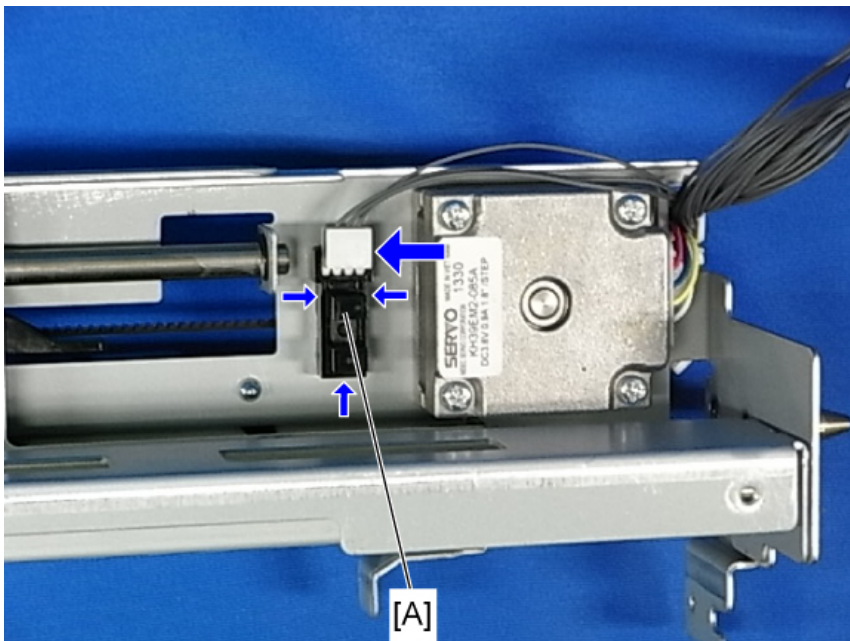
1. Separate the punch unit. (▶ p.15 "Punch Unit Separation")

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d587r017

2. Remove the punch unit drawer bracket assembly [A] (⚙ x 2).

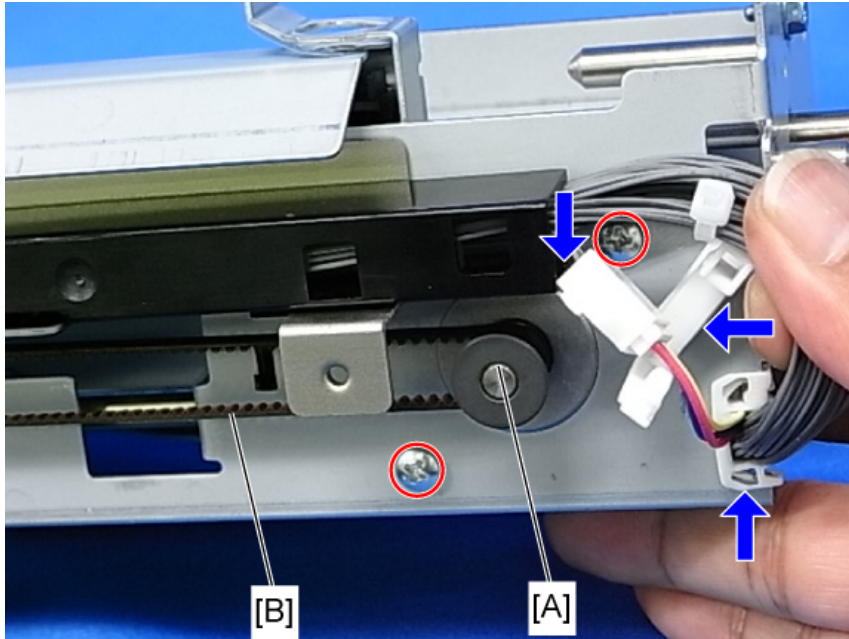


d587r018

3. Replace the paper position detection HP sensor [A] (🔌 x 1, hooks x 3).

Paper Position Sensor Unit Motor

1. Remove the punch unit drawer bracket assembly. (🔧 p.16 "Paper Position Detection Unit HP Sensor")



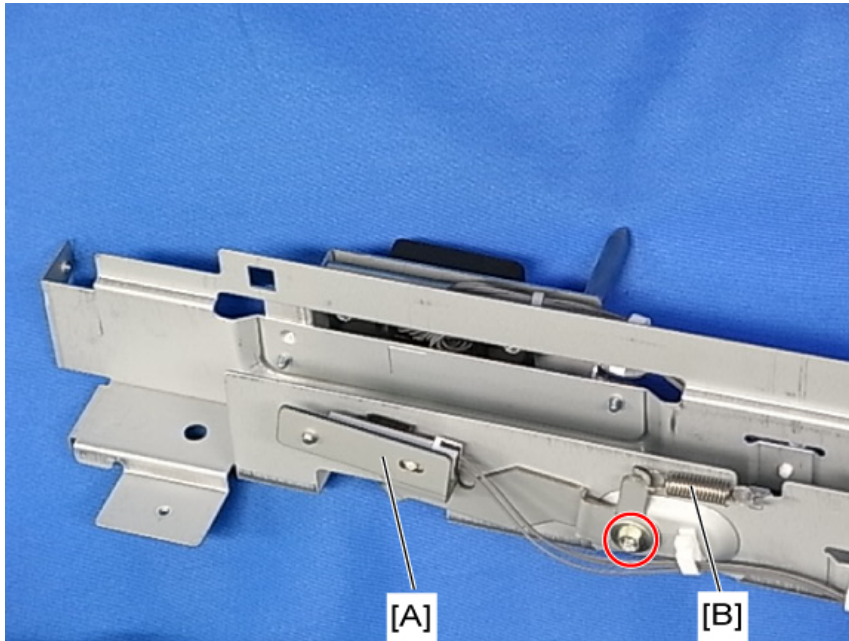
d587r019

2. Replace the paper position sensor unit motor [A] (timing belt [B] x 1, 🔧 x 2, 🛠️ x 2, 🔌 x 1).

Punch Hopper Full Sensor

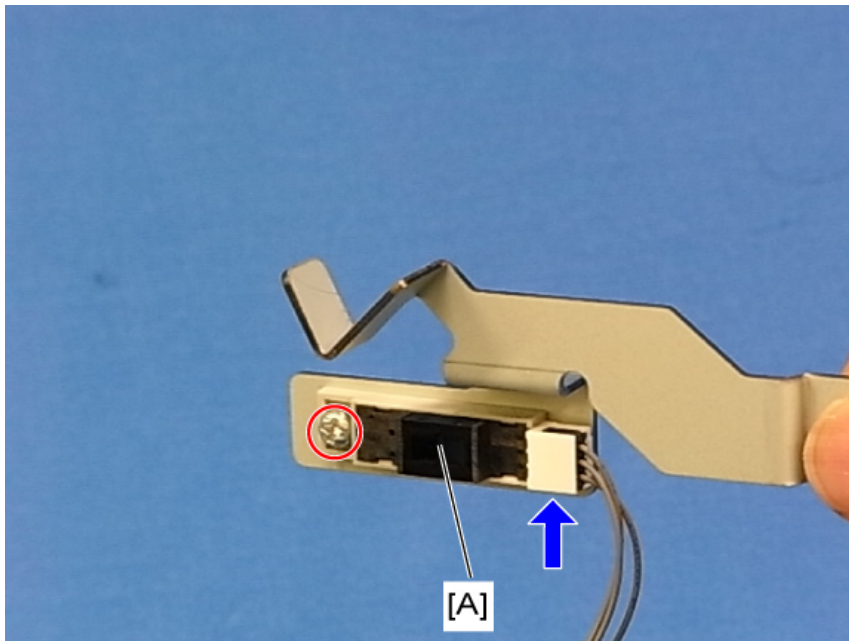
1. Remove the punch unit drawer bracket assembly. (🔧 p.16 "Paper Position Detection Unit HP Sensor")

1



d587r020

2. Remove the punch hopper full sensor assembly [A] (spring [B] x 1,  x 1).

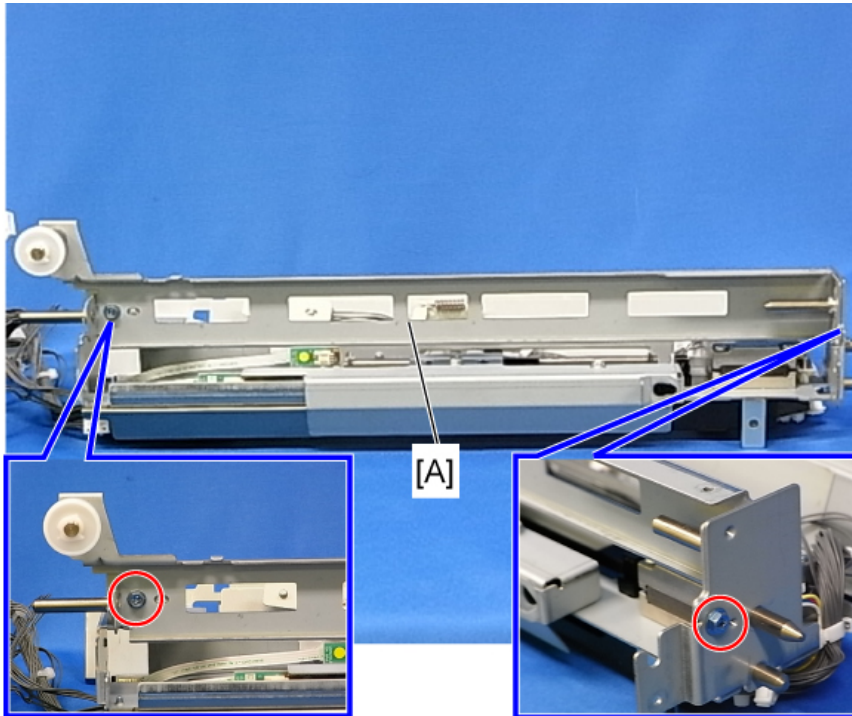


d587r021

3. Replace the punch hopper full sensor [A] ( x 1,  x 1).

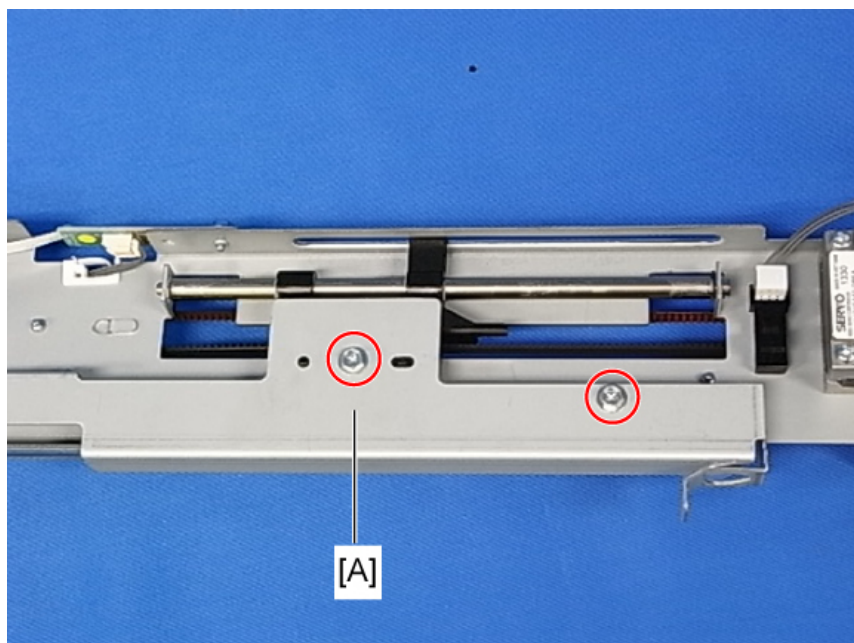
Paper Position Sensor

1. Remove the punch unit drawer bracket assembly. (p. 16 "Paper Position Detection Unit HP Sensor")



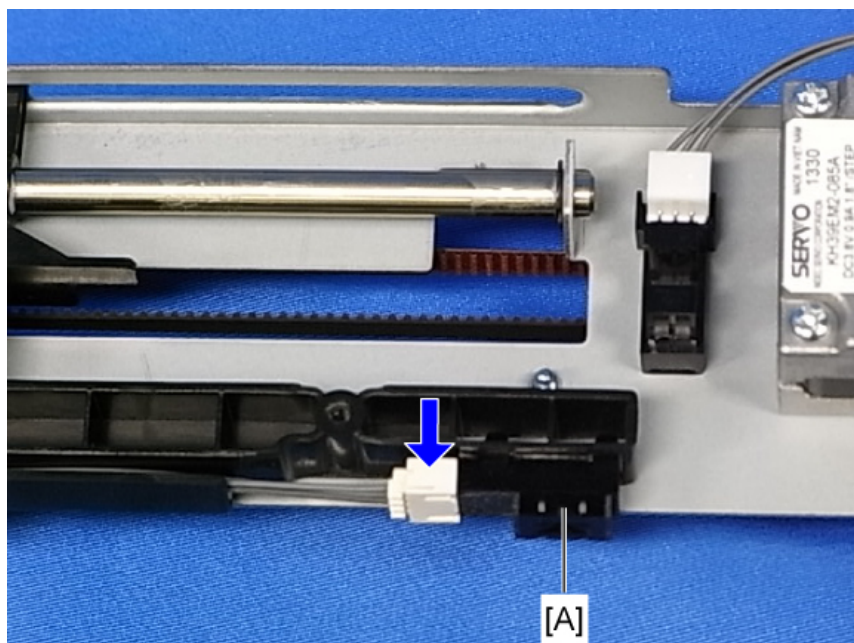
d587r022

2. Remove the punch unit slide frame [A] ( x 2).



d587r023

3. Remove the movement lower guide plate [A] ( x 2).



d587r024

4. Replace the paper position sensor [A] ( x 1, hooks x 4).

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