

PAPER TRAY UNIT
Machine Codes: M384
Field Service Manual

4 June, 2010

Safety and Symbols


Replacement Procedure Safety

CAUTION

- 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.

: See or Refer to

: Screws

: Connector

: Clamp

: Clip ring


: E-ring

TABLE OF CONTENTS

Safety and Symbols.....	1
Replacement Procedure Safety.....	1
1. Replacement and Adjustment	
External Covers.....	3
Left Cover.....	3
Right Cover.....	3
Pick-up, Paper Feed and Separation Rollers.....	5
Separation Roller.....	5
Pick-up and Paper Feed Rollers.....	5
Electrical Components.....	7
Paper Feed Motor.....	7
Drive Board.....	7
Cooling Fan.....	8
Paper Feed Clutch.....	9
Tray Lift Motor.....	9
Paper Size Sensor Board.....	11
Tray Set Sensor.....	11
Paper Feed Sensor.....	12
Vertical Transport Sensor.....	13
Paper End Sensor.....	14
Paper Height Sensor 1.....	15
Paper Lift Sensor.....	16
Paper Height Sensor 2.....	17
INDEX.....	19

1. Replacement and Adjustment

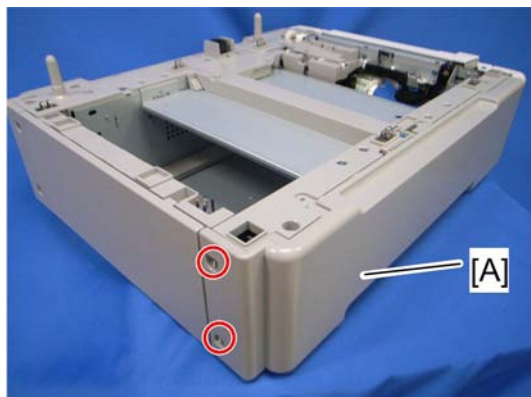
External Covers

1

CAUTION

- Turn off the main power switch and unplug the machine before attempting any procedure in this section.

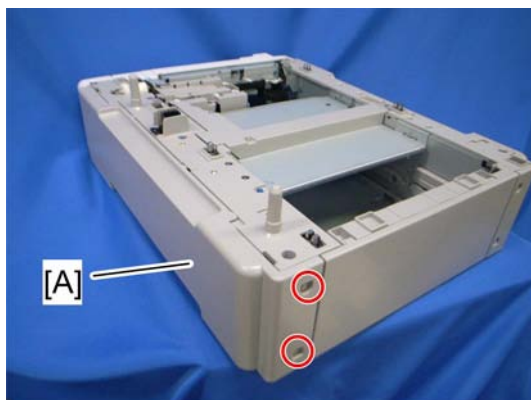
Left Cover



m384r505

1. Left cover [A] (x2).

Right Cover



m384r504

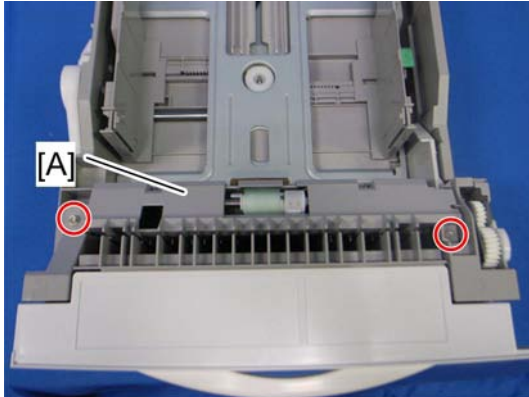
1. Right cover [A]  x2).

Pick-up, Paper Feed and Separation Rollers

Separation Roller

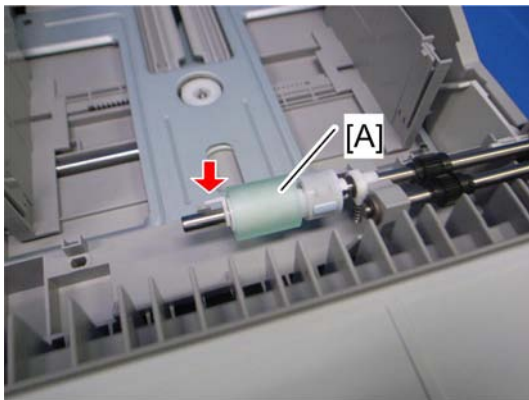
1

1. Pull out the paper tray.



m384r500

2. Cover [A] (⌘ x 2)



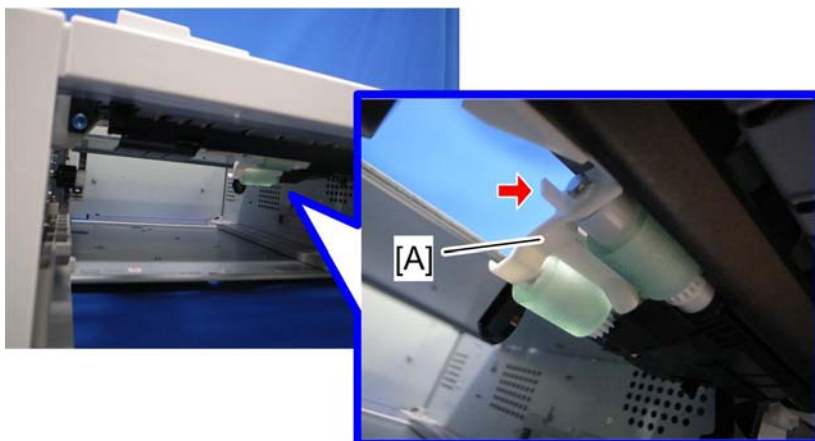
m384r501

3. Separation roller [A] (⌘ x 1)

Pick-up and Paper Feed Rollers

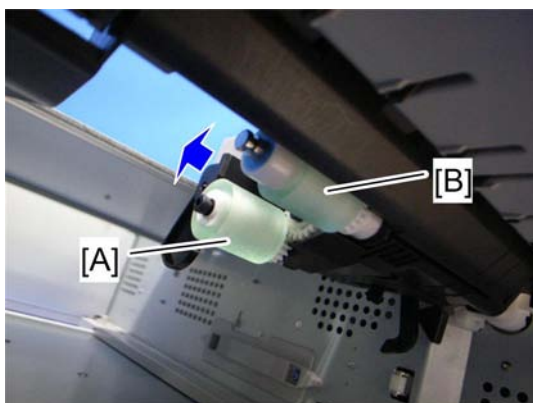
1. Pull out the paper tray.

1



m384r502

2. Roller holder [A] (🔧 x 1)



m384r503

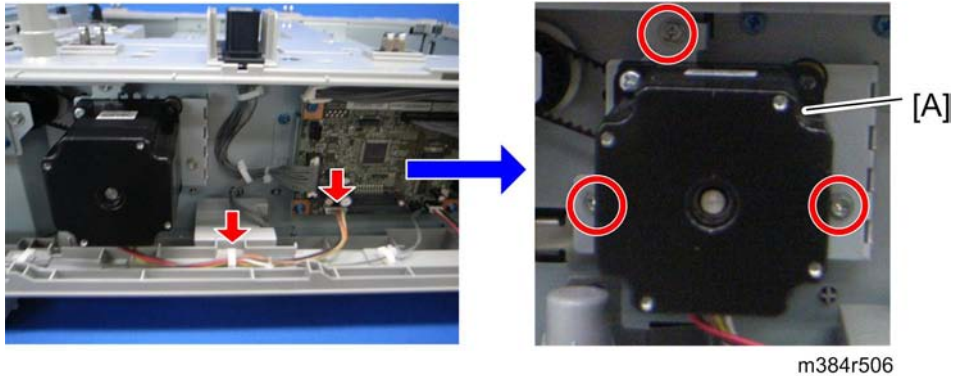
3. Pick-up roller [A]
4. Paper feed roller [B]

Electrical Components

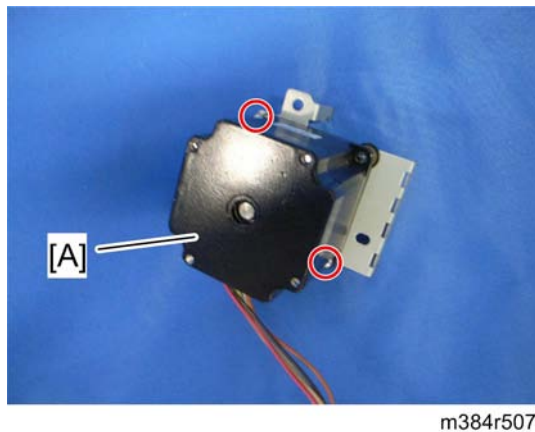
Paper Feed Motor

1

1. Right cover (p.3)



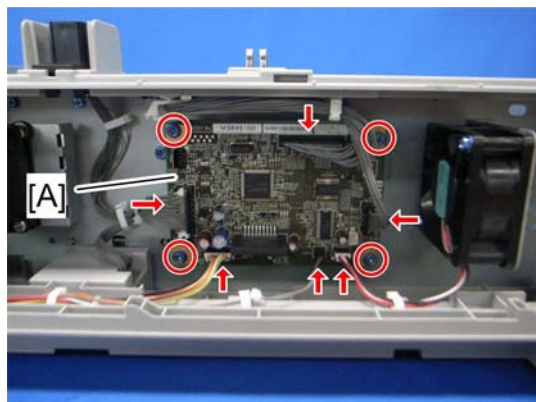
2. Paper feed motor bracket [A] (x3, x1, x1)



3. Paper feed motor [A] (x2)

Drive Board

1. Right cover (p.3)

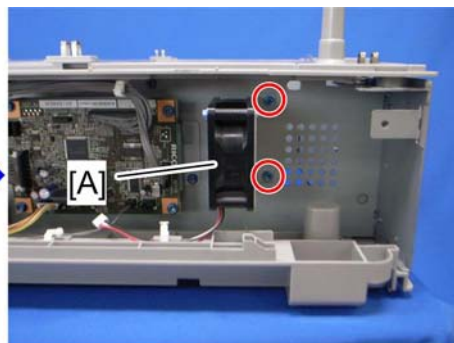
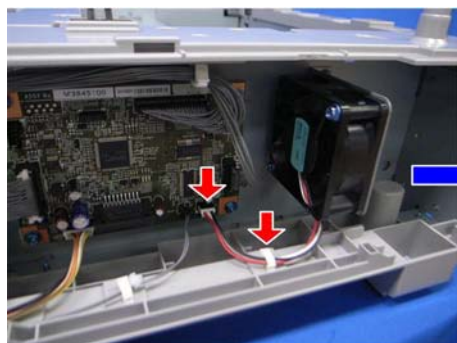


m384r508

2. Drive board [A] (⚙ x4, 📡 x6)

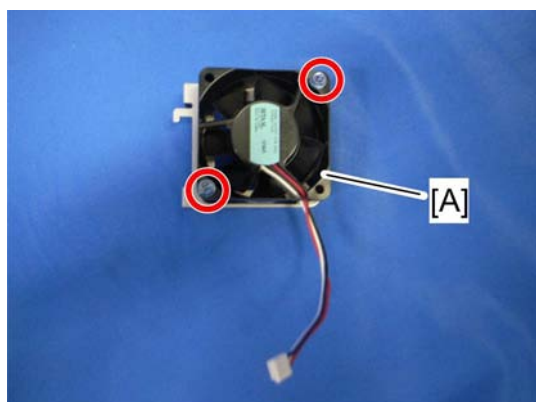
Cooling Fan

1. Right cover (🔧 p.3)



m384r509

2. Cooling fan base [A] (⚙ x2, 📡 x1, 📡 x1)



m384r532

3. Cooling fan [A] (🔩 x2)

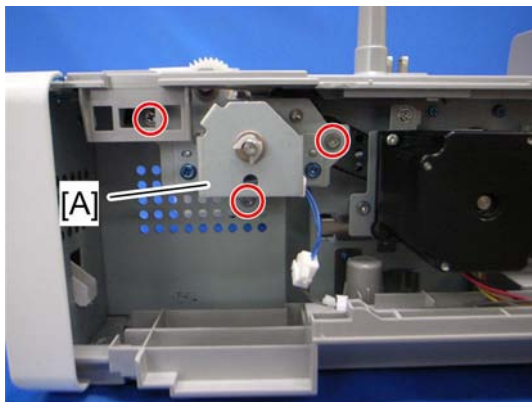
When installing the cooling fan

Make sure that the cooling fan is installed with its decal facing to the front of the paper feed unit.

1

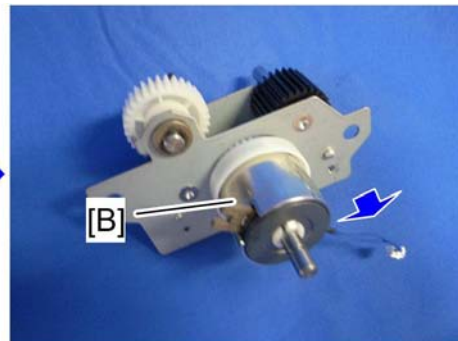
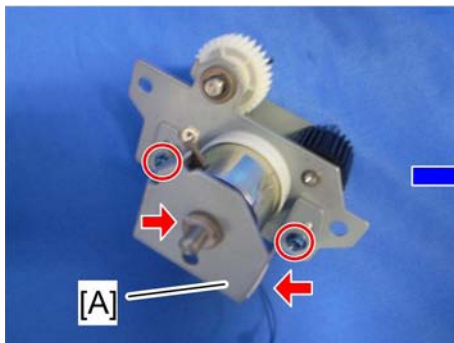
Paper Feed Clutch

1. Right cover (🔩 p.3)



m384r510

2. Paper feed clutch bracket [A] (🔩 x3)



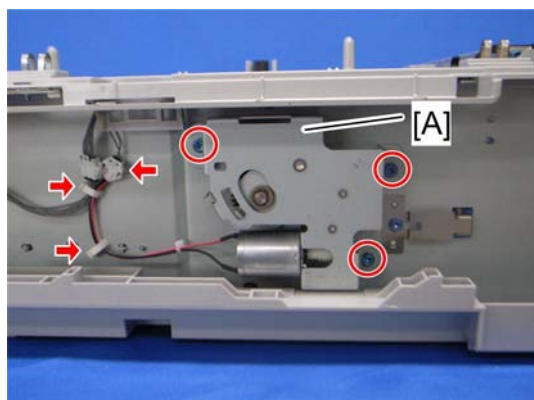
m384r511

3. Paper feed clutch holder [A] (🔩 x2, 📐 x1, 🌀 x1, bushing x1)
4. Paper feed clutch [B]

Tray Lift Motor

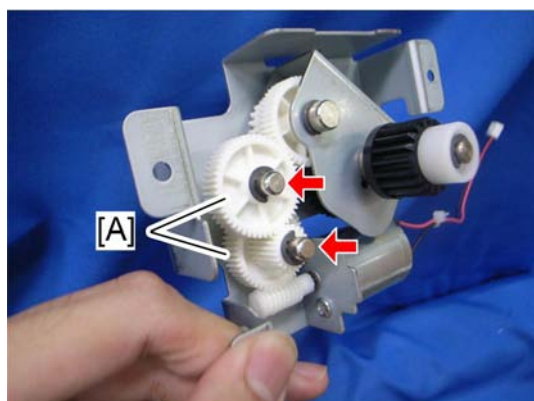
1. Left cover (🔩 p.3)

1



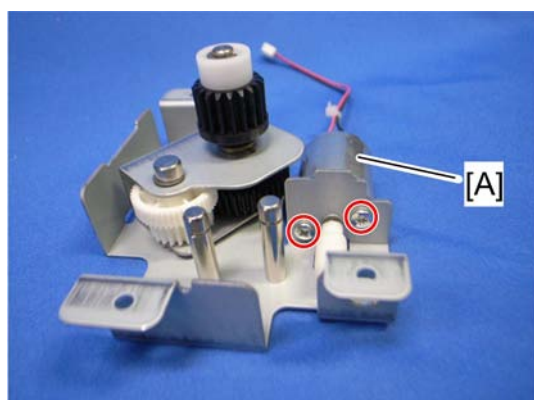
m384r512

2. Tray lift motor bracket [A] (⚙ x3, ⚙ x2, ⚙ x1)



m384r513

3. Two gears [A] (⚙ x1 each)

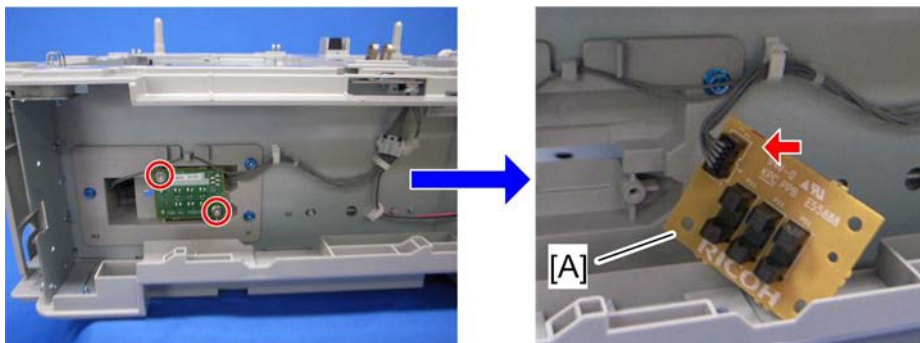


m384r514

4. Tray lift motor [A] (⚙ x2)

Paper Size Sensor Board

1. Left cover (p.3)

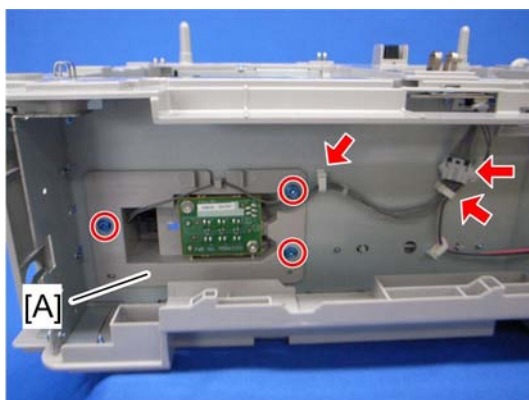


m384r515

2. Paper size sensor board [A] (x2, x1)

Tray Set Sensor

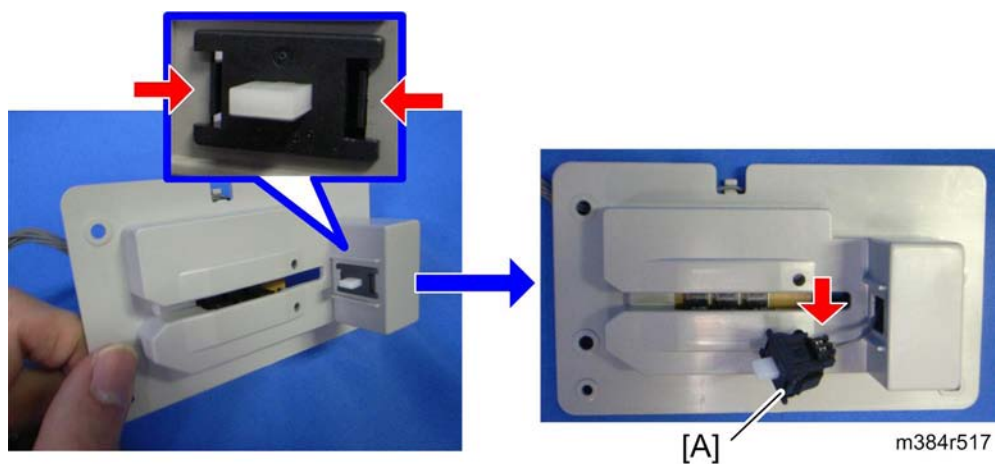
1. Left cover (p.3)



m384r516

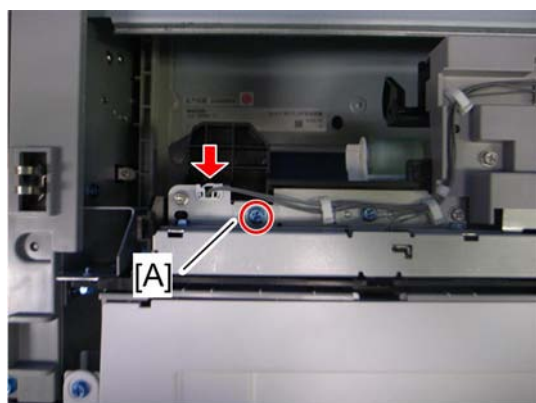
2. Tray set sensor holder [A] (x3, x2, x1)

1

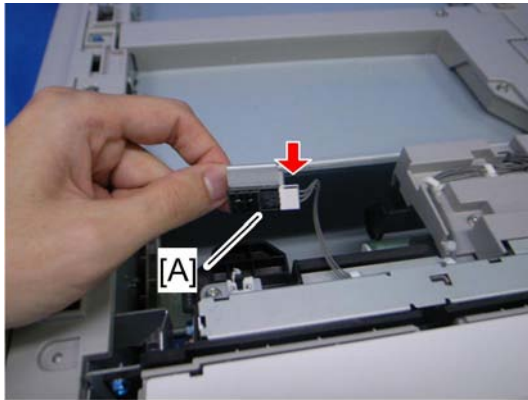


3. Tray set sensor [A] (🔌 x1, hooks)

Paper Feed Sensor



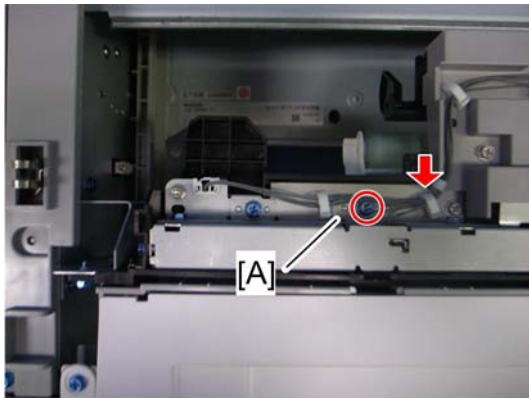
1. Paper feed sensor bracket [A] (🔧 x1, 📄 x1)



m384r519

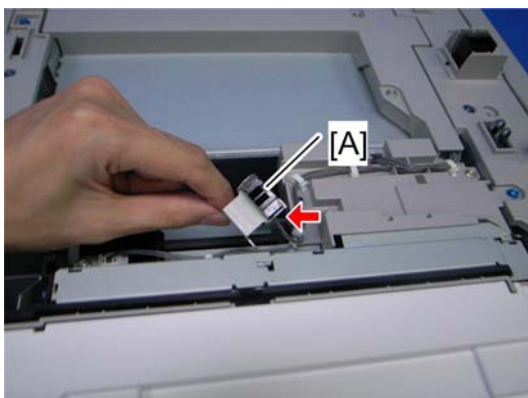
2. Paper feed sensor [A] (🔌 x1, hooks)

Vertical Transport Sensor



m384r520

1. Vertical transport sensor bracket [A] (🔌 x1, 📏 x1)

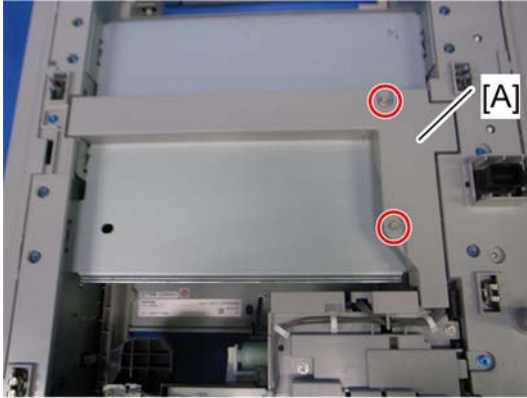


m384r521

2. Vertical transport sensor [A] (🔧 x1, hooks)

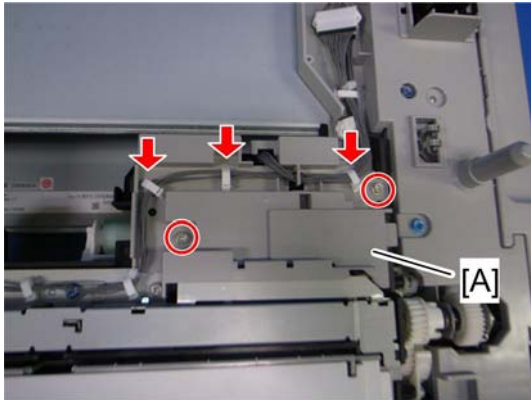
Paper End Sensor

1



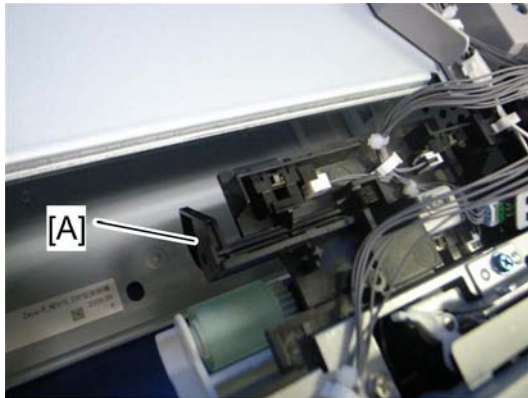
m384r522

1. Upper rear cover [A] (🔧 x2)



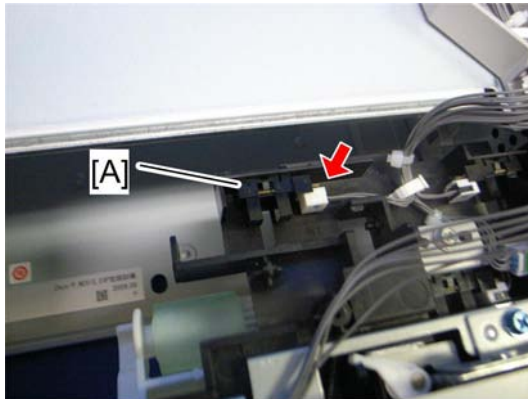
m384r523

2. Upper front cover [A] (🔧 x2, 🖨️ x3)



m384r524

3. Remove the actuator [A].



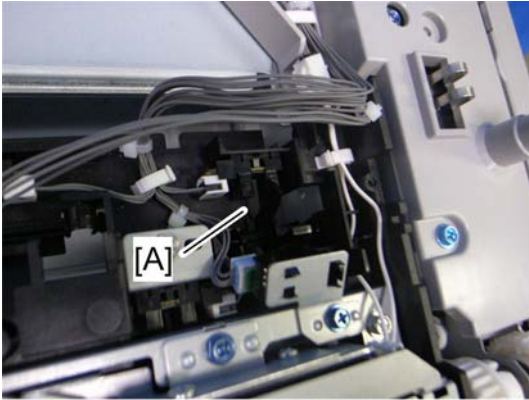
m384r525

4. Paper end sensor [A] (📎 x1, hooks)

Paper Height Sensor 1

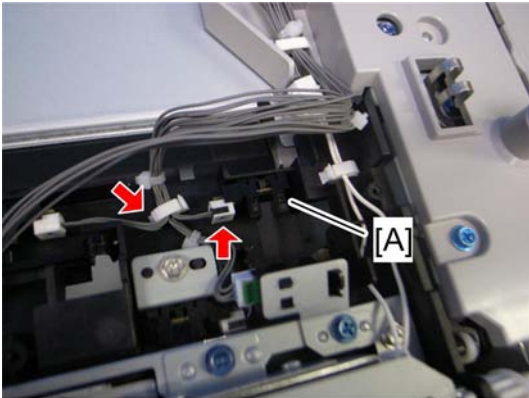
1. Upper rear cover (📎 p.14 "Paper End Sensor")
2. Upper front cover (📎 p.14 "Paper End Sensor")

1



m384r526

3. Remove the actuator [A].

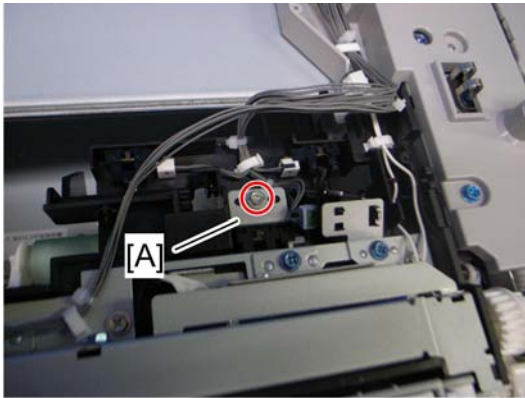


m384r527

4. Paper height sensor 1 [A] (🖨️ x1, 📄 x1, hooks)

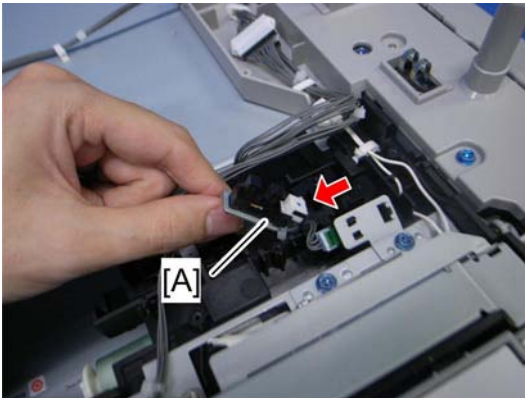
Paper Lift Sensor

1. Upper rear cover (🖨️ p.14 "Paper End Sensor")
2. Upper front cover (🖨️ p.14 "Paper End Sensor")



m384r528

3. Paper lift sensor bracket [A] (🔧 x1)



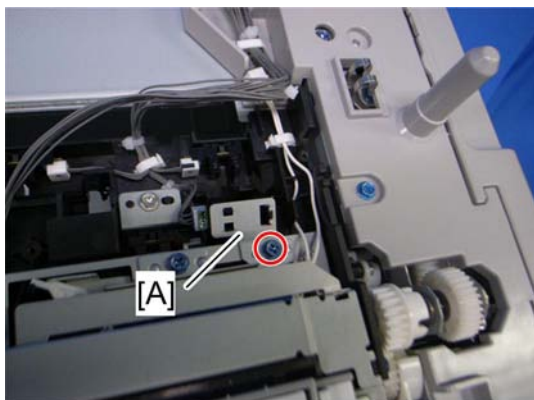
m384r529

4. Paper lift sensor [A] (🔌 x1, hooks)

Paper Height Sensor 2

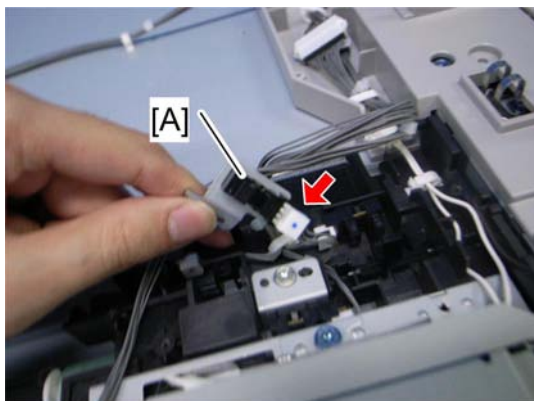
1. Upper rear cover (🔧 p.14 "Paper End Sensor")
2. Upper front cover (🔧 p.14 "Paper End Sensor")

1



m384r530

3. Paper height sensor 2 bracket [A] (🔩 x1)



m384r531

4. Paper height sensor 2 [A] (🔧 x1, hooks)