Duplex Unit Type AD1040 Machine Code: J316

Field Service Manual

Safety and Symbols

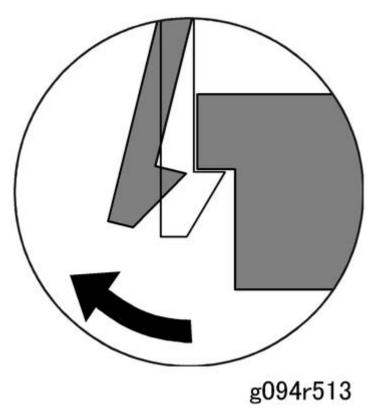
Replacement Procedure Safety

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

Releasing Plastic Latches (hooks)

Almost all the parts of this unit are held in place with plastic latches (hooks). The latches break easily, so release them carefully. To release a latch, press the hook end of the latch away from the part to which it is latched.



Symbols

This manual uses the following symbols.

Symbol	What it means
4	Bushings
Ѿ	C-ring
EQII	Connector
©	E-ring
4	Harness clamp
10"	Pointer
P	Screw
%	Standoff
-	Hook
All	Spring

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1. Replacement and Adjustment

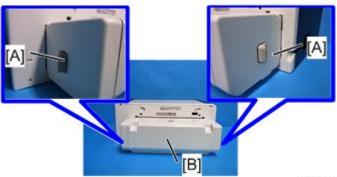
Exterior Covers

Before You Begin

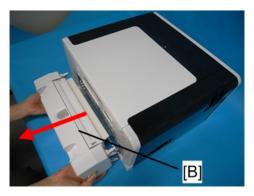
Before you begin any replacement procedure:

- 1. Turn the machine power off and disconnect it from its power source.
- 2. Detach the duplex unit from the machine (Below).

Detach the duplex unit



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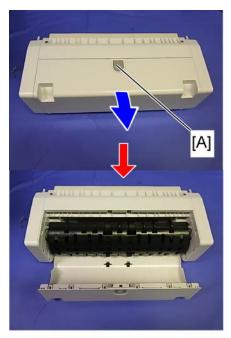
- 1. Push and hold the left and right release tabs [A] together to unlock the duplex unit [B].
- 2. Pull the duplex unit [B] out of the machine.

Reinstallation

- The duplex unit must be installed in the machine at all times. The machine will not operate without the duplex unit installed.
- The locks on either end of the duplex unit lock automatically when the unit is attached to the back of the printer.

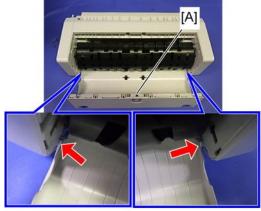
Rear Cover

1. The duplex unit (Above).



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2. Push the rear cover open button [A] and open it.

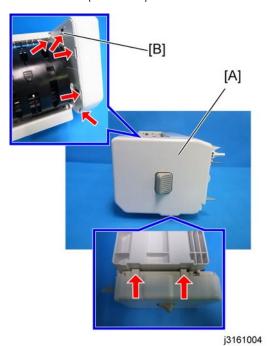


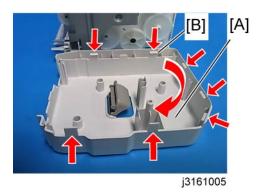
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3. The rear cover [A] (Snapping points x 2).

Right Cover

- 1. The duplex unit (p.5 "Detach the duplex unit").
- 2. The rear cover (Above)



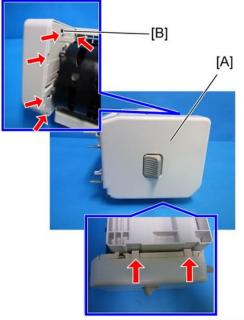


3. Release the hooks counterclockwise from [B] and remove the right cover [A] ($\nabla \times 7$).

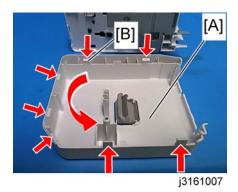
Left Cover

1. The duplex unit (p.5 "Detach the duplex unit").

2. The rear cover (IP Above)



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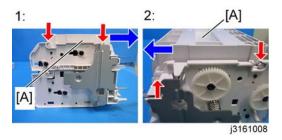


3. Release the hooks clockwise from [B] and remove the left cover [A] (\P x 7).

Bottom Cover

- 1. The duplex unit (p.5 "Detach the duplex unit").
- 2. The rear cover (Pr p.6).
- 3. The right cover (** p.7).
- 4. The left cover (Above)

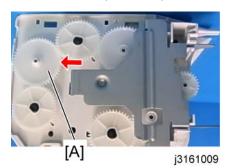
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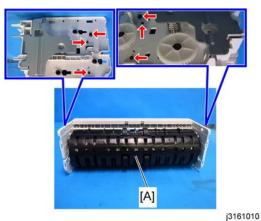
- 1: Left side
- 2: Right side
- 5. Turn over the duplex unit.
- 6. Release 2 hooks and slide the bottom cover [A] forward, and then remove it from the duplex unit (× 2, snapping points x 2).

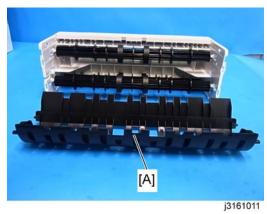
Duplex Inverter Roller Cover

- 1. The duplex unit (Pp.5 "Detach the duplex unit").
- 2. The rear cover (*p.6).
- 3. The right cover (** p.7).
- 4. The left cover (p.7)
- 5. The bottom cover (Above)



6. Pull 1 gear [A] out.

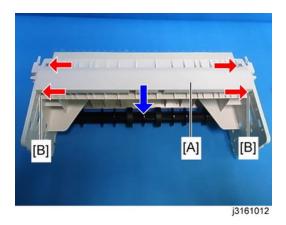




- 7. Release 6 snapping points at the right and left sides (Snapping points x 6)
- 8. Duplex inverter roller cover [A].

Guide Plate

- 1. The duplex unit (p.5 "Detach the duplex unit").
- 2. The rear cover (Pp.6).
- 3. The right cover (p.7).
- 4. The left cover (p.7)
- 5. The bottom cover (p.8)
- 6. The duplex inverter roller cover (Above)



- 7. Release 2 hooks [B] by bending them inward, and then release 2 snapping points by sliding the guide plate rearward.
- 8. The guide plate [A] (\mathbf{T} x 2, snapping points x 2).



• 2 inverter rollers have already been removed in the upper photo. However, detaching these rollers is not necessary to remove the guide plate because it is for the easily view photo shot.

Rollers

Duplex Inverter Rollers (Upper, Middle, Lower)

The duplex inverter rollers consist of 3 rollers - upper, middle and lower.

The replacement procedure of these rollers is all the same.

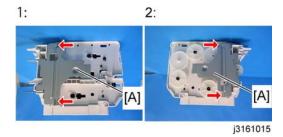


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- A: Upper
- B: Middle
- C: Lower

Preparation

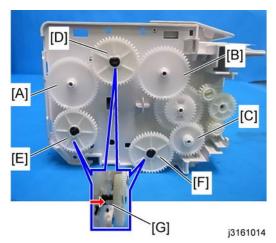
- 1. The duplex unit (pr.5 "Detach the duplex unit").
- 2. The rear cover (*p.6).
- 3. The right cover (p.7).
- 4. The left cover (p.7)



- 1: Left side
- 2: Right side
- 5. The Locking plate [A] at the both sides (x 2 each).

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- 6. The bottom cover (p.8).
- 7. The duplex inverter roller cover (** p.9).

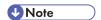


D: for the upper roller

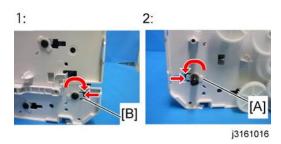
E: for the middle roller

F: for the lower roller

- 1. Pull 1 gear [A] out. This gear would have already been removed usually when the duplex inverter roller cover is removed.
- 2. Pull 2 gears [B] [C] out.
- 3. Remove 3 gears [D] [E] [F] by unlocking the hooks [G] on each gear (▼ x 1 each).

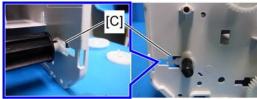


- The gears to be removed vary with the rollers that are necessary to remove.
- The following procedure is for the lower roller. The procedure of all rollers is same.
- The each roller has 2 bushings under gear and opposite end of it.



1: Left side

2: Right side



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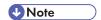
C: Unlock state

 Rotate the bushing [A] [B] to the counterclockwise at the both sides to unlock [C] them and remove them form the shaft (■ x 2 each).



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5. The inverter roller (lower) [A].

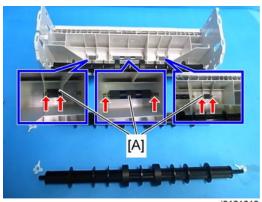


• The procedure of removing other rollers is the same as that of the lower roller.

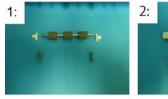
Duplex Transport Rollers

Preparation

- 1. The duplex unit (p.5 "Detach the duplex unit").
- 2. The rear cover (p.6).
- 3. The right cover (** p.7).
- 4. The left cover (** p.7).
- 5. The bottom cover (F p.8)
- 6. The duplex inverter roller cover (** p.9).
- 7. The duplex inverter roller (upper and lower) (p.12 "Duplex Inverter Rollers (Upper, Middle, Lower)").



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1: Middle roller

- 2: Right and Left rollers
- 1. The duplex transport rollers [A] (x 2 each, bushings x 2 each).



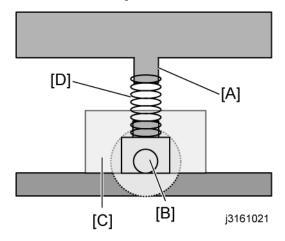
• The springs of middle roller are sliver. The springs of the right and left rollers are black.

Reassembly

Rollers

Reinstalling the Duplex Transport Rollers

Reinstall each bushing of the rollers as follows.



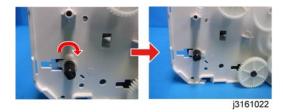
- A: Upper hook
- B: Roller shaft
- C: Bushing
- D: Spring



• Make sure that the spring [D] is hooked at the upper hook firmly.

Locking the bushings of the duplex inverter roller

Make sure that each bushings of the duplex inverter roller are locked firmly before reinstalling the gears.



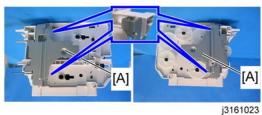
1. Rotate the bushing clockwise until snap it into the place.

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Lock Plates

Make sure that each hooks of the lock plate [A] are hooked firmly and the lock plate can be operated smoothly.

1: 2:



- 1: Left side
- 2: Right side

Gears

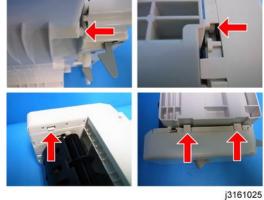
The original gear arrangement at the right side is as follows.



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Covers

Make sure that all hooks and snapping points of the cover are engaged firmly.





• The upper photo shows typical types of the hooks and the snapping points.

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