

Duplex Unit AD2000
Machine Code: B806

SERVICE MANUAL

Feb. 28th, 2006
Subject to change

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

Replacement and Adjustment


Replacements

CAUTION

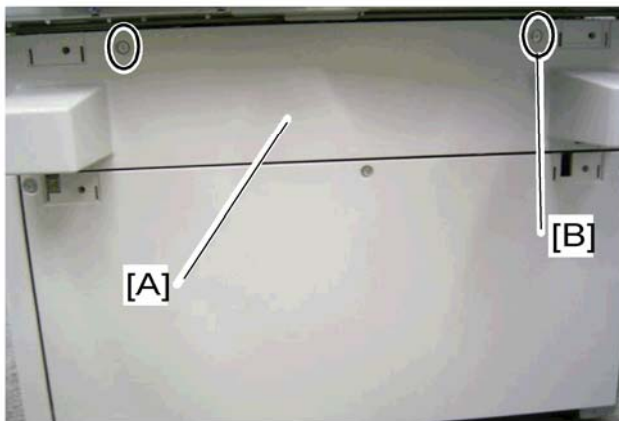
- Turn off the main power switch and unplug the machine before beginning any of the procedures in this section.

This manual uses the following symbols.

: See or Refer to, : Screw, : Connector, : Clip ring, : E-ring

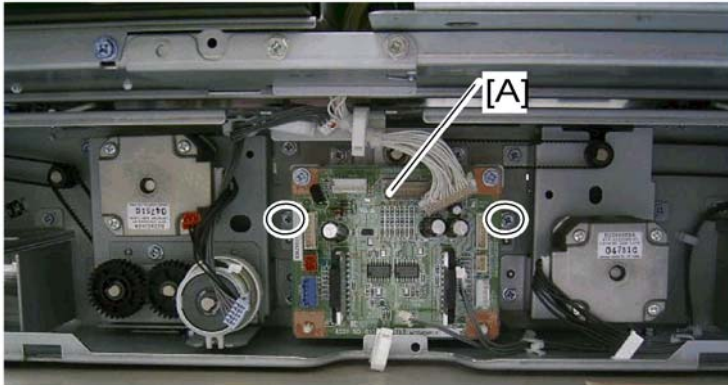
: Clamp

Rear Cover

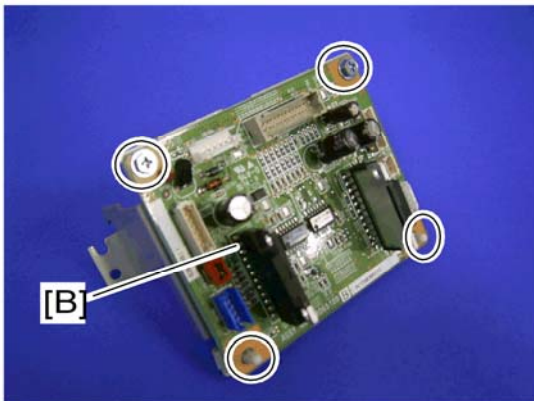


1. Rear cover [A] of the duplex unit (🔩 x 2: [B] is stepped screw.)

Drive Board



1. Rear cover (🔩 "Rear Cover")
2. Drive board with bracket [A] (🔩 x 2, All 📏s)



3. Drive board [B] (🔩 x 2, snap x 2)

Inverter Clutch

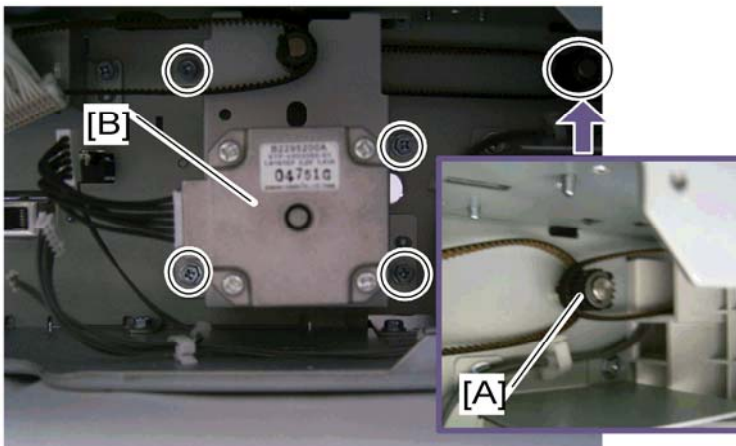
1. Rear cover (🔧 "Rear Cover")



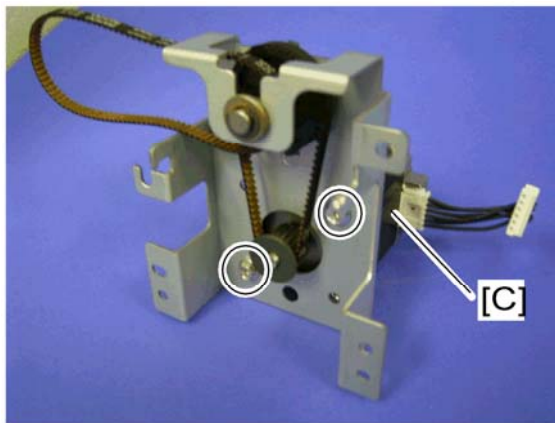
2. Inverter clutch [A] (⌚ x 1, 🛠 x 1)

Duplex Transport Motor

1. Rear cover (🔧 "Rear Cover")
2. Pull the duplex tray on the way.

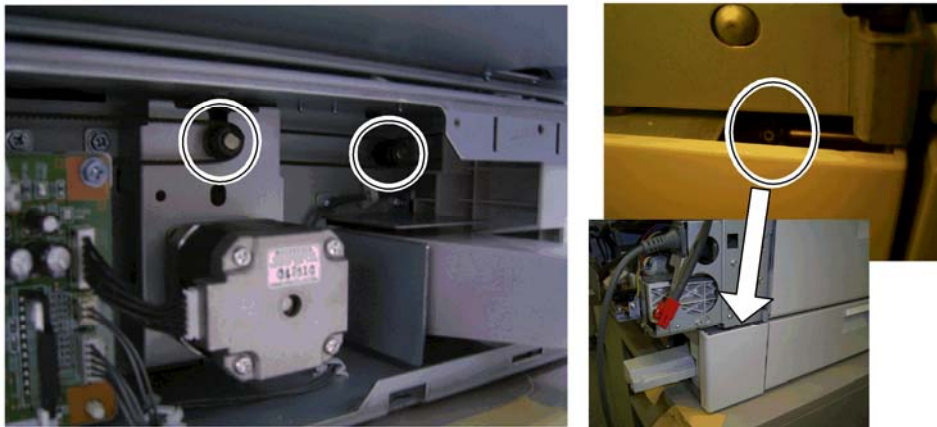


3. Remove the gear [A] to release the timing belt (⌚ x 1).
4. Duplex transport motor unit [B] (🔧 x 4, 🛠 x 1)



5. Duplex transport motor [C] (x 2)

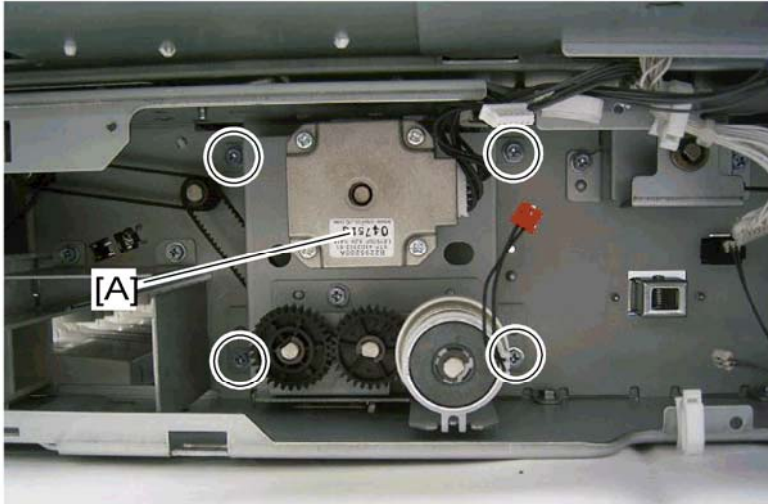
When Reassembling the Duplex Transport Motor



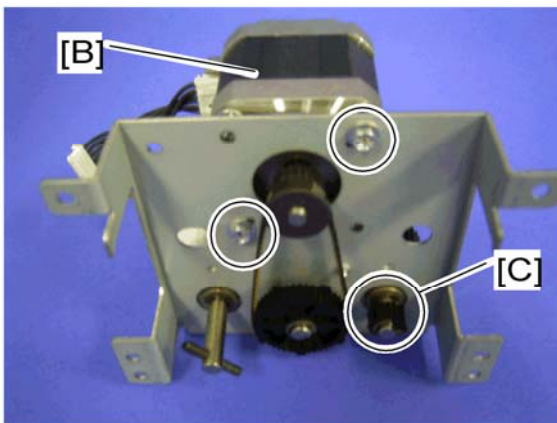
Make sure that timing belts are correctly engaged with three gears before securing gears and duplex transport motor unit.

Inverter Motor

1. Rear cover (🔧 "Rear Cover")
2. Pull the duplex tray on the way.



3. Inverter motor unit [A] (🔧 x 4, 📦 x 2)



4. Inverter motor [B] (🔧 x 2)

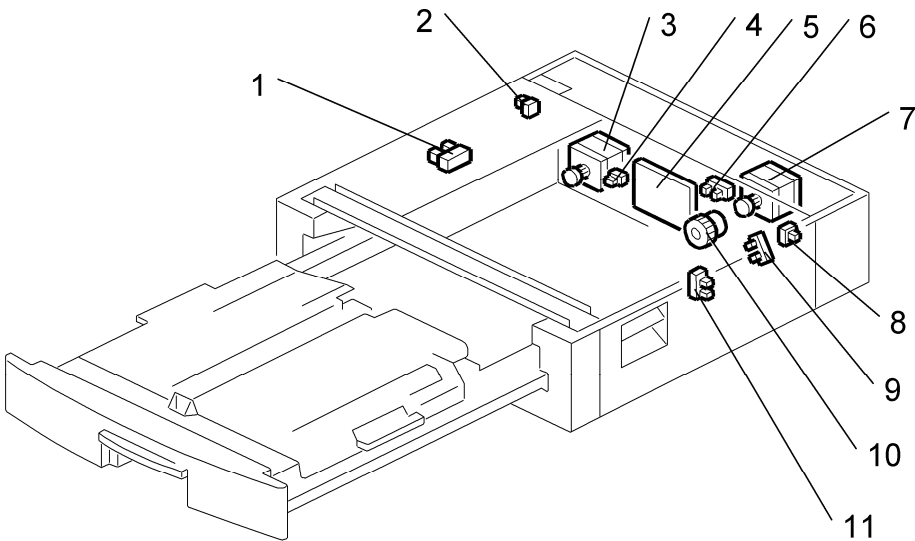
↓ Note

- When reassembling the inverter motor unit, make sure that the timing belt is correctly engaged with the gear [C].

Detailed Section Descriptions

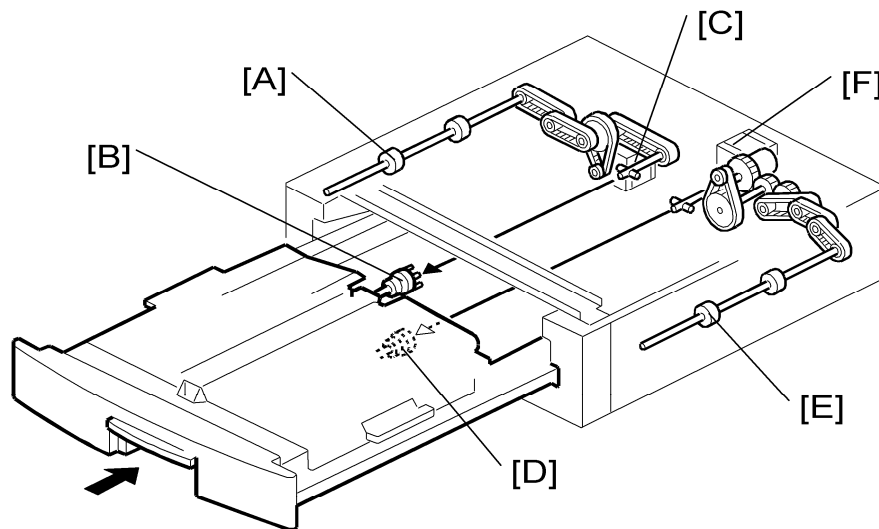
Component Layout

Electrical Components



1. Duplex Entrance Sensor	7. Inverter Motor
2. Duplex Left Cover Switch	8. Duplex Right Cover Switch
3. Duplex Transport Motor	9. Duplex Inverter Sensor
4. Tray Set Switch	10. Duplex Clutch
5. Drive Board	11. Duplex Exit Sensor
6. Paper Wait Sensor	

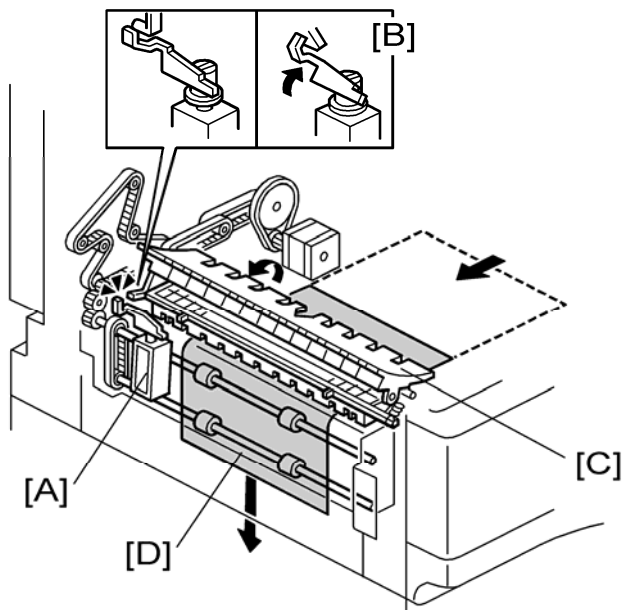
Drive Layout



The duplex entrance roller [A] and transport roller 1 [B] are driven by the duplex transport motor [C] via timing belts and gears.

The Transport roller 2 [D] and duplex exit roller [E] are driven by the inverter motor [F] via timing belts, clutch and gears.

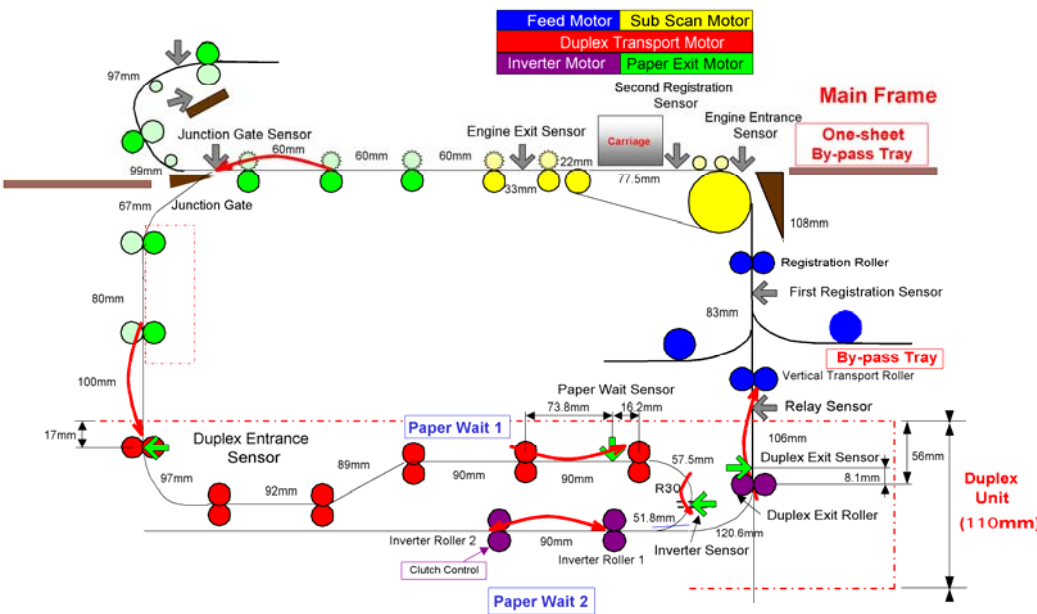
Junction Gate Mechanism



When the paper reaches the engine exit sensor in duplex mode, the junction gate solenoid [A] is turned on. The junction gate solenoid pushes up junction gate edge [B]. As a result, the junction gate [C] opens the path [D] for the duplex unit.

Paper Path and Timing Chart

Paper Path



Timing Chart

