

DUPLEX UNIT
(Machine Code: G303)

1. REPLACEMENT AND ADJUSTMENT

⚠ CAUTION

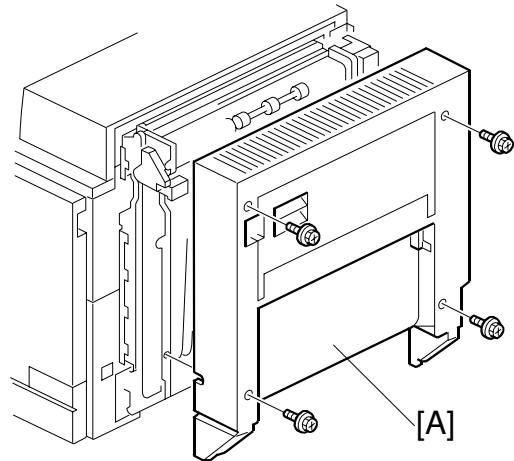
Turn off the main power switch and unplug the machine before beginning any of the procedures in this section.

NOTE: This manual uses the following symbols.

☛ : See or Refer to 🔩 : Screws 📡 : Connector

1.1 EXTERIOR COVER

1. Exterior cover [A] (🔩 x 4)



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1.2 ENTRANCE/EXIT SENSORS

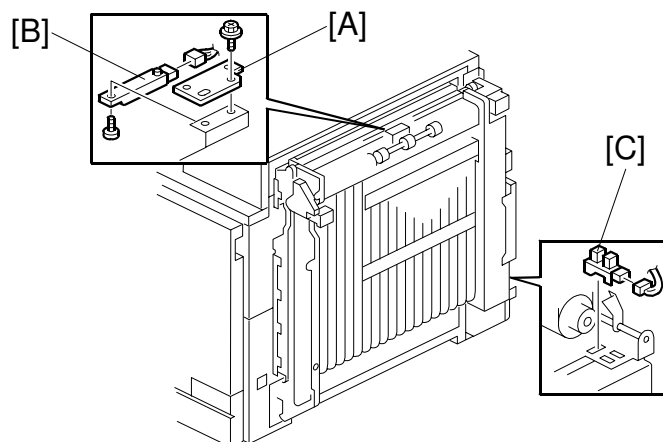
1. Exterior cover (☛ 1.1)

Entrance Sensor

2. Sensor bracket [A] (🔩 x 1)
3. Feed sensor [B] (📡 x 1, 🔩 x 1)

Exit Sensor

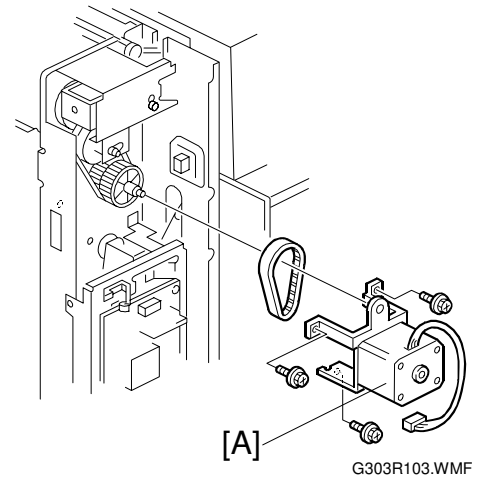
4. Exit sensor [C] (📡 x 1)



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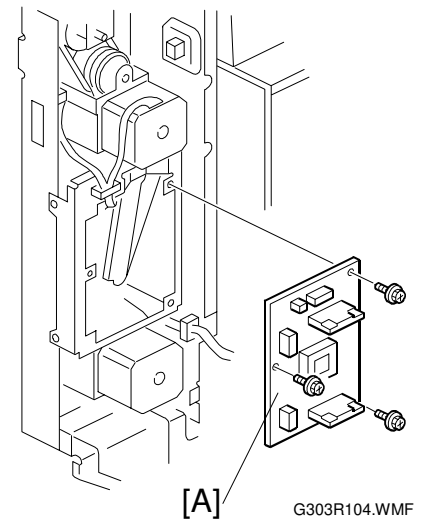
1.3 INVERTER MOTOR

1. Exterior cover (☛ 1.1)
2. Inverter motor [A] (☛ x 1, ⚙ x 3)



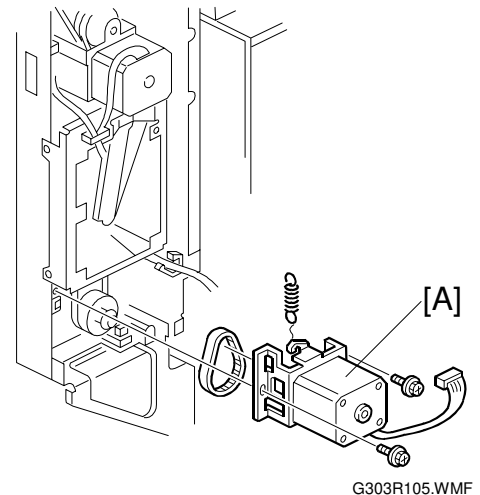
1.4 CONTROLLER BOARD

1. Exterior cover (☛ 1.1)
2. Controller board [A] (☛ x 5, ⚙ x 3)



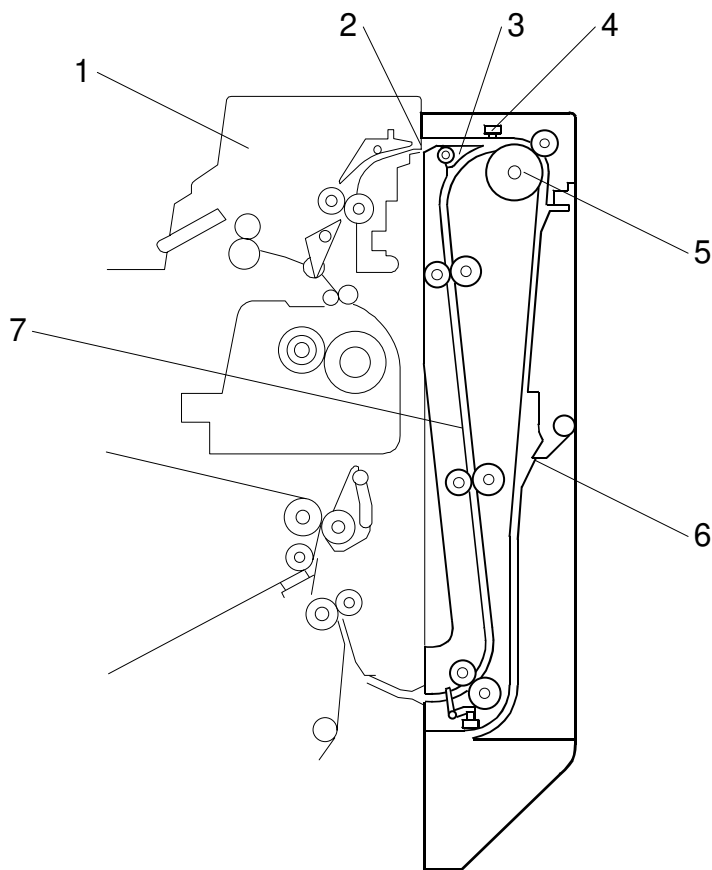
1.5 TRANSPORT MOTOR

1. Exterior cover (☛ 1.1)
2. Controller board (☛ 1.4)
3. Transport motor (1 spring, ☛ x 1, ⚙ x 2)



2. DETAILED DESCRIPTIONS

2.1 OVERVIEW

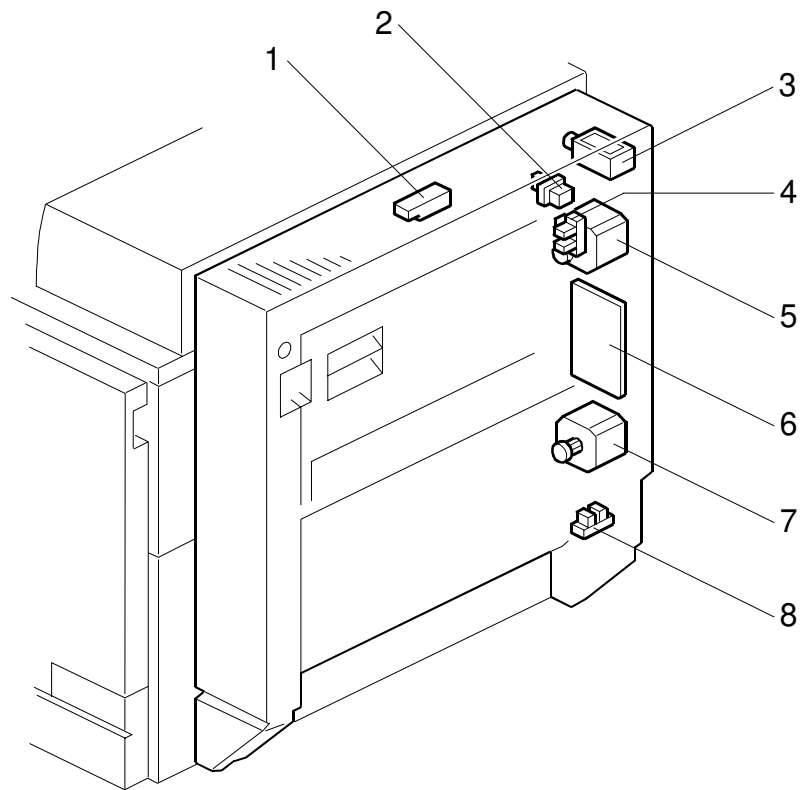


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- 1. Interchange unit
- 2. Paper entrance
- 3. Inverter gate
- 4. Entrance sensor

- 5. Inverter roller
- 6. Inverter section
- 7. Paper exit path

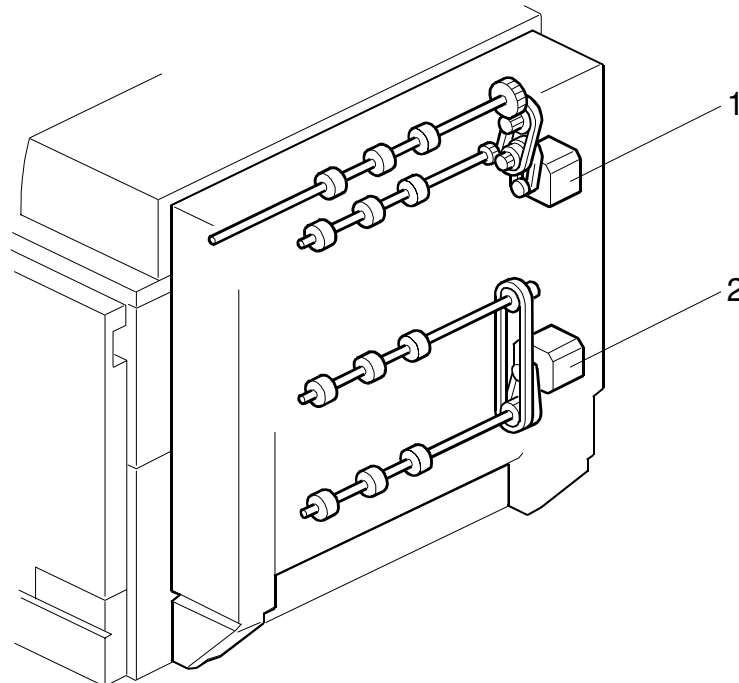
2.2 ELECTRICAL COMPONENT LAYOUT



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- | | |
|----------------------------|---------------------|
| 1. Entrance sensor | 5. Inverter motor |
| 2. Duplex unit open switch | 6. Controller board |
| 3. Inverter gate solenoid | 7. Transport motor |
| 4. Cover sensor | 8. Exit sensor |

2.3 DRIVE LAYOUT



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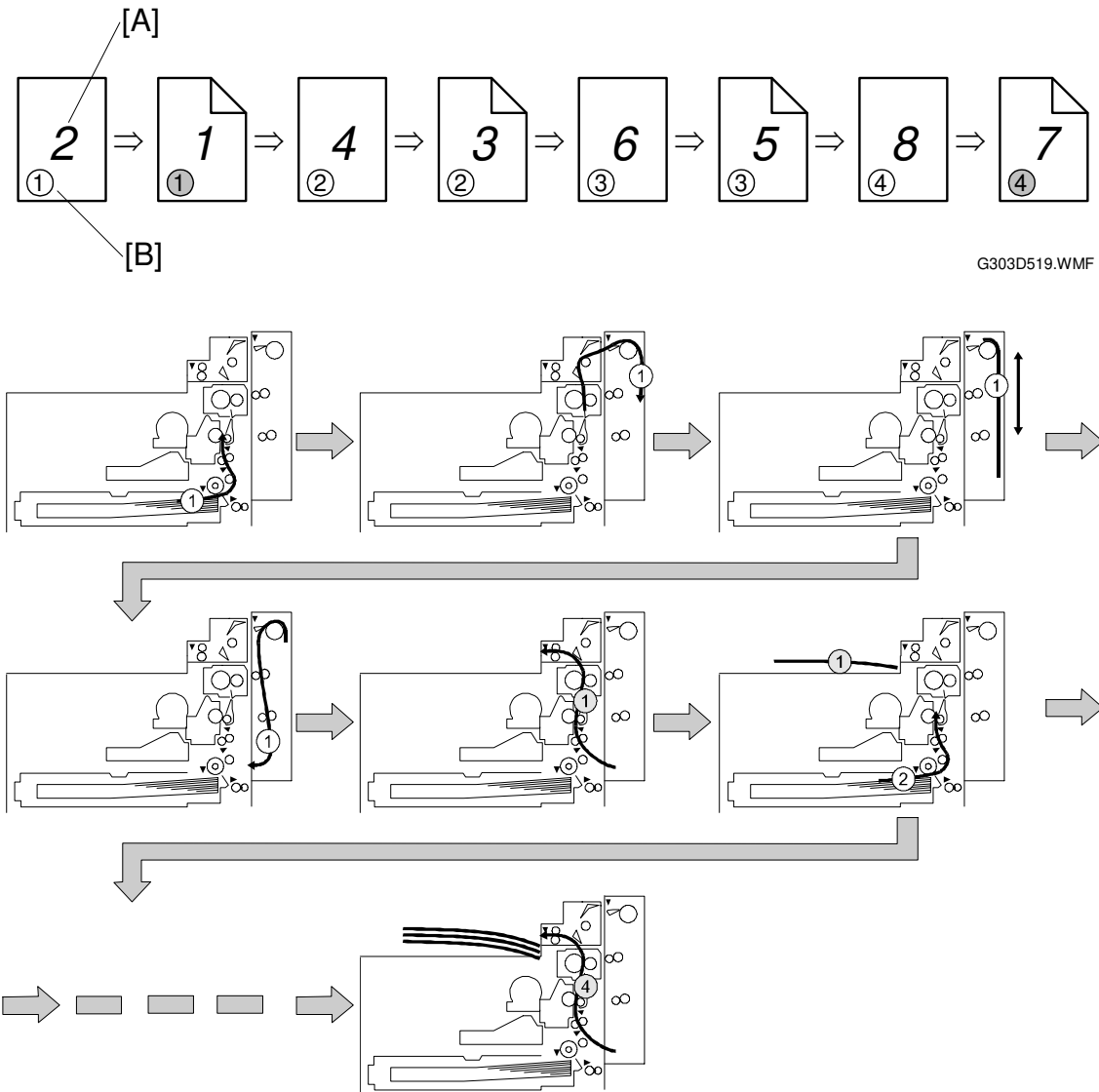
- 1. Inverter motor
- 2. Transport motor

2.4 DUPLEX PAPER FEED ORDER

2.4.1 LONGER THAN A4/LT LEF

The feed path through the duplex unit can only hold one sheet of paper.

Example: 8 pages. The number [A] in the illustration shows the order of pages. The number [B] in the illustration shows the order of sheets of paper (if shaded, this indicates the second side).



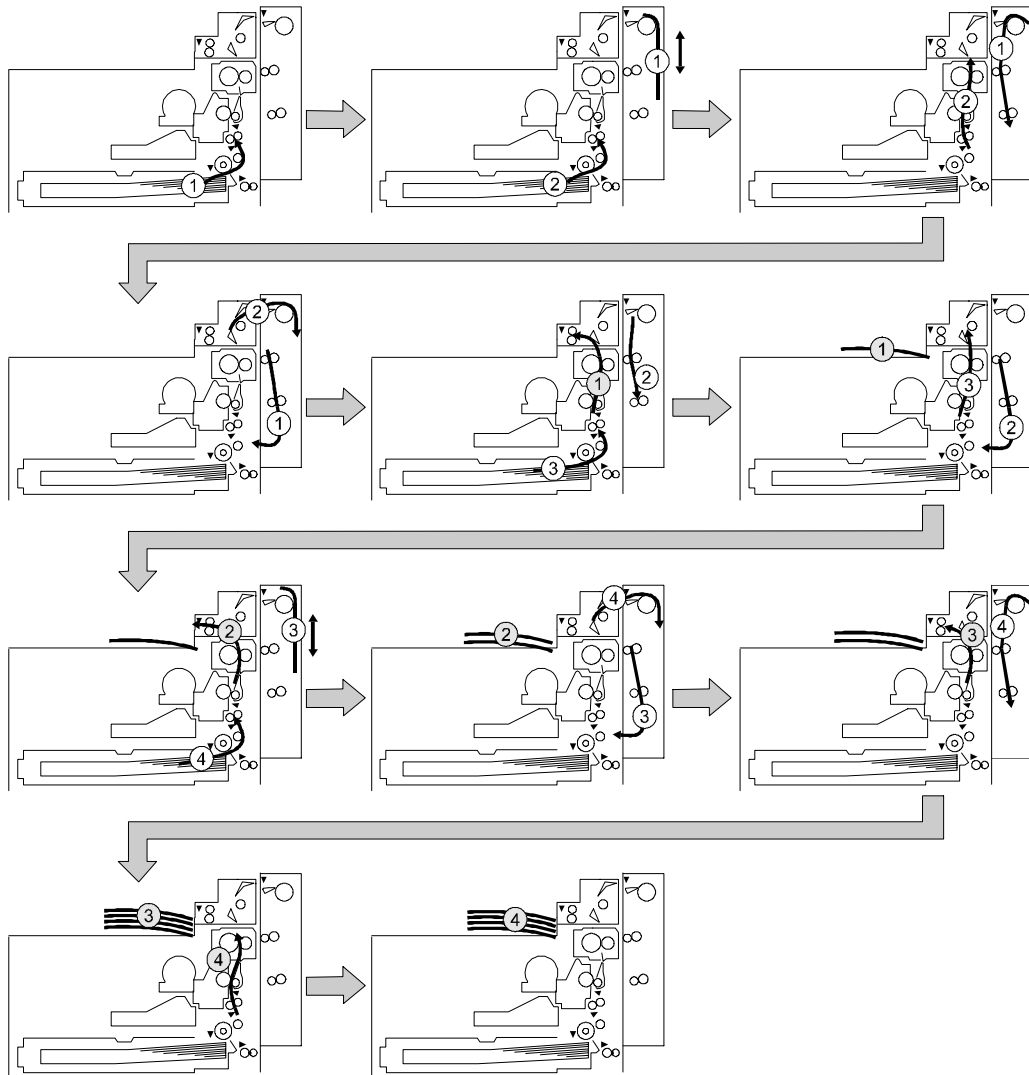
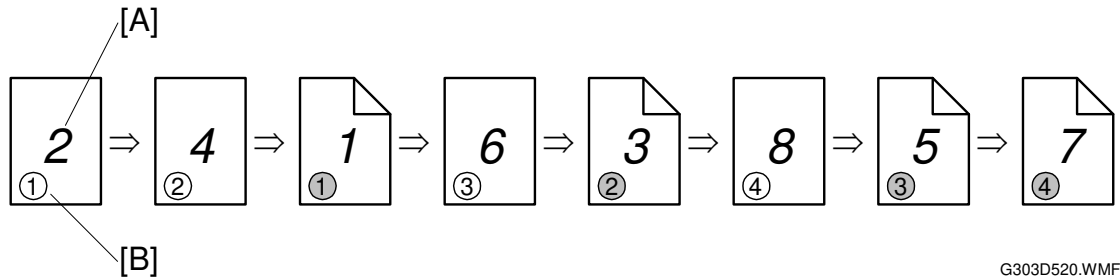
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2.4.2 UP TO A4/LT LEF

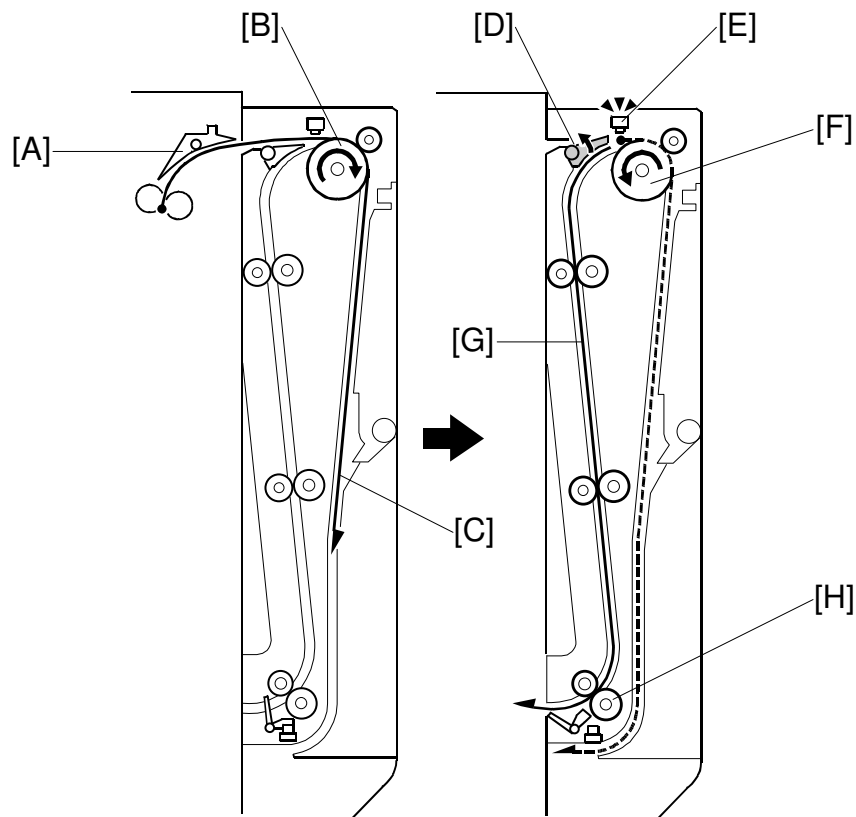
The feed path through the duplex unit can hold 2 sheets of paper

Example: 8 pages. The number [A] in the illustration shows the order of pages. The number [B] in the illustration shows the order of sheets of print paper (if shaded, this indicates the second side).



Peripherals

2.5 REVERSE MECHANISM



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The duplex unit starts when the entrance sensor [E] detects paper coming in.

1. **Interchange unit gate [A]**
Directs the paper to the duplex unit (up to A3 SEF)
2. **Inverter roller [B]**
Sends the paper to the inverter section [C]
3. **Entrance sensor [E]**
Detects the trailing edge of the paper
4. **Inverter gate solenoid (behind [D])**
Activates the inverter gate [D]
5. **Inverter gate [D]**
Switches the paper path
6. **Inverter roller [F]**
Changes its rotation direction (sends the paper to the exit path [G])
7. **Transport roller [H]**
Sends the paper to the main unit registration roller