DUPLEX UNIT

(Machine Code: B509)

1. REPLACEMENT AND ADJUSTMENT

ACAUTION

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

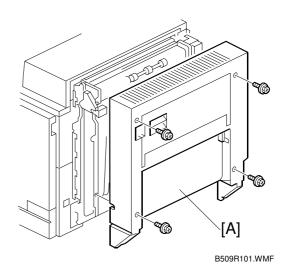
NOTE: This manual uses the following symbols.

 ■ : See or Refer to
 ② : Screws
 □ : Connector
 ③ : Clip ring
 □ : Connector
 □ : Connector
 □ : Connector
 □ : Clip ring
 □ :

 \mathbb{C} : E-ring

1.1 EXTERIOR COVER

1. Exterior cover [A] (F x 4)



1.2 ENTRANCE/EXIT SENSORS

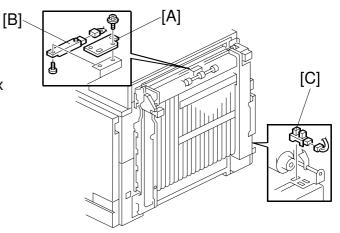
1. Exterior cover (**☞** 1.1)

Entrance Sensor

- 2. Sensor bracket [A] (F x 1)
- 3. Entrance sensor [B] (x 1, x 1)

Exit Sensor

4. Exit sensor [C] (🗐 x 1)

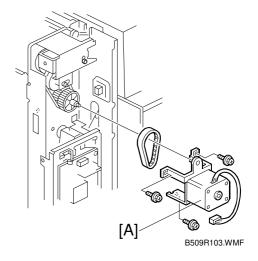


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INVERTER MOTOR 26 July 2002

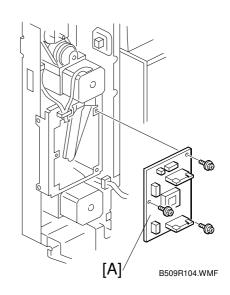
1.3 INVERTER MOTOR

- 1. Exterior cover (**☞** 1.1)
- 2. Inverter motor [A] (□ x 1, 🖗 x 3)



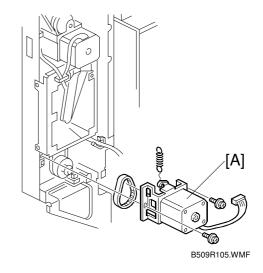
1.4 CONTROLLER BOARD

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



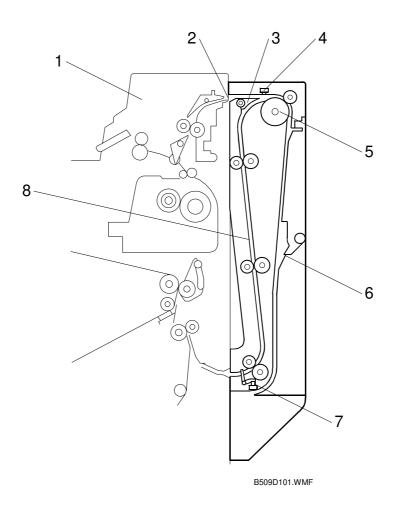
1.5 TRANSPORT MOTOR

- 1. Exterior cover (1.1)
- 2. Controller board (1.4)



2. DETAILED DESCRIPTIONS

2.1 OVERVIEW

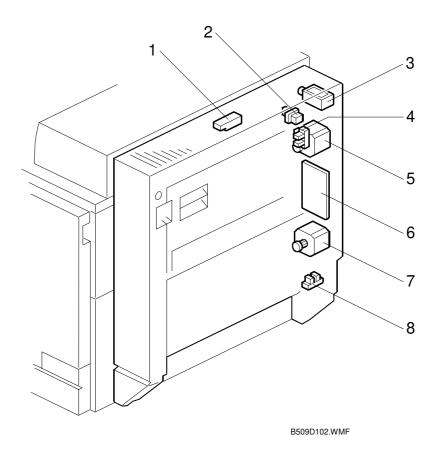


- 1. Interchange unit
- 2. Paper entrance
- 3. Inverter gate
- 4. Entrance sensor

- 5. Inverter roller
- 6. Inverter section
- 7. Exit sensor
- 8. Paper exit path

Peripherals

2.2 ELECTRICAL COMPONENT LAYOUT

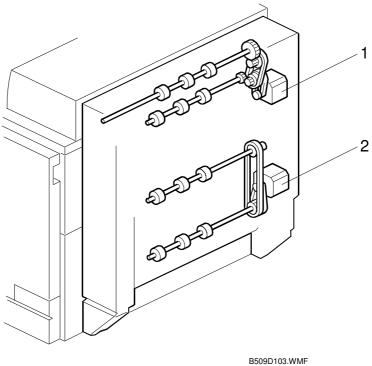


- 1. Entrance sensor
- 2. Duplex unit open switch
- 3. Inverter gate solenoid
- 4. Cover sensor

- 5. Inverter motor
- 6. Controller board
- 7. Transport motor
- 8. Exit sensor

26 July 2002 **DRIVE LAYOUT**

2.3 DRIVE LAYOUT



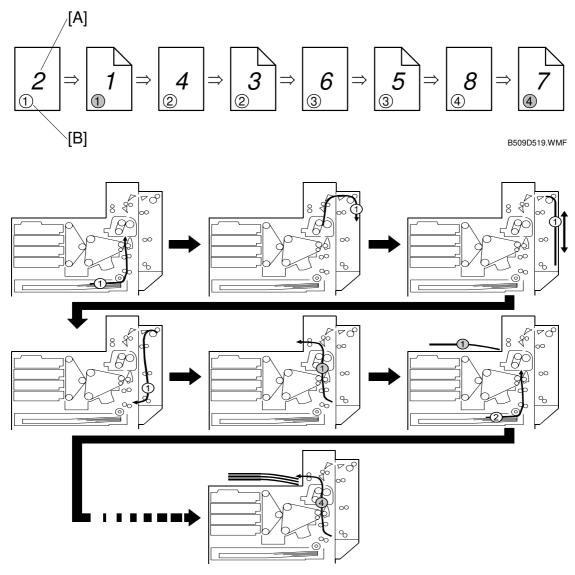
- 1. Inverter motor
- 2. Transport motor

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.

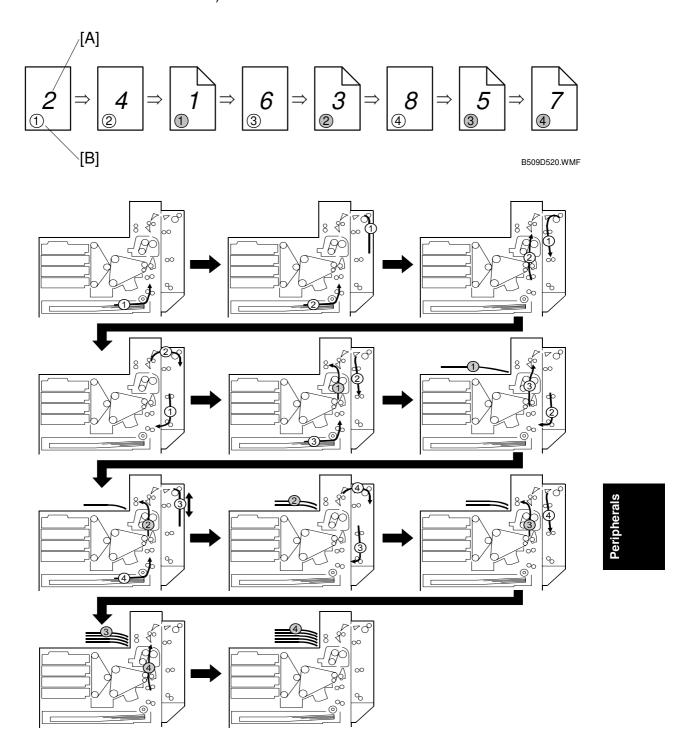
The example below shows how the paper is handled to print out 8 pages in mono color mode: The number [A] in the illustration shows the order of pages. The number [B] in the illustration shows the order of sheets of paper (if shaded, this indicates the second side).



2.4.2 UP TO A4/LT LEF

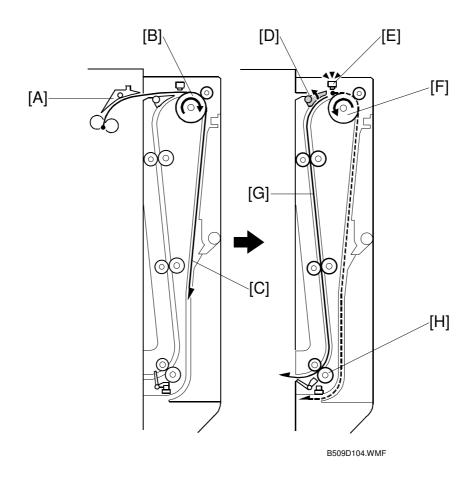
The feed path through the duplex unit can hold 2 sheets of paper

The example below shows how the paper is handled to print out 8 pages in mono color mode: 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).



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2.5 REVERSE MECHANISM



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

1. Duplex junction gate [A] in the interchange unit 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