

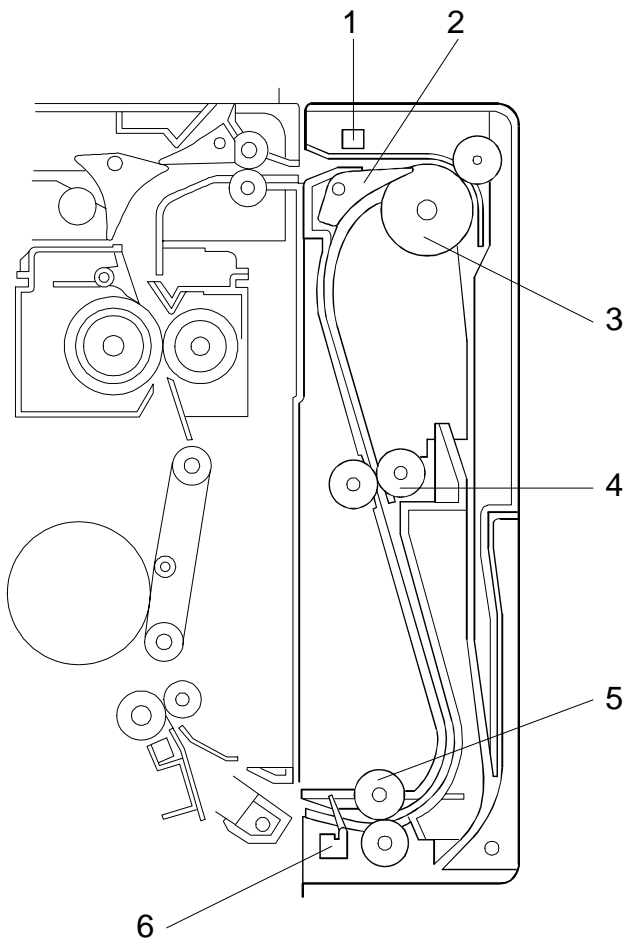
DUPLEX
(Machine Code: A687)

1. OVERALL MACHINE INFORMATION

1.1 SPECIFICATIONS

Paper Size:	Standard sizes A5 lengthwise to A3 HLT to DLT Non-standard sizes Width: 100 to 305 mm Length: 148 to 432 mm
Paper Weight:	64 g/m ² ~ 105 g/m ² , 20 lb ~ 28 lb
Tray Capacity:	1 sheet

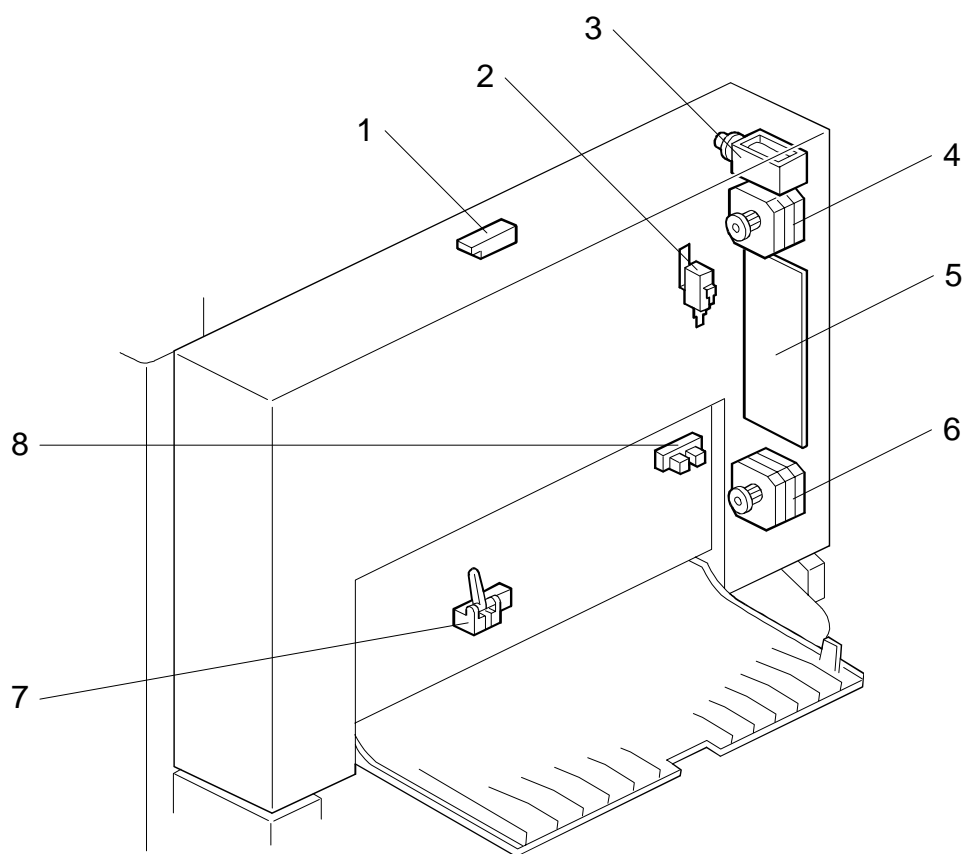
1.2 MECHANICAL COMPONENT LAYOUT



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- | | |
|--------------------|---------------------------|
| 1. Entrance Sensor | 4. Upper Transport Roller |
| 2. Inverter Gate | 5. Lower Transport Roller |
| 3. Inverter Roller | 6. Exit Sensor |

1.3 ELECTRICAL COMPONENT LAYOUT



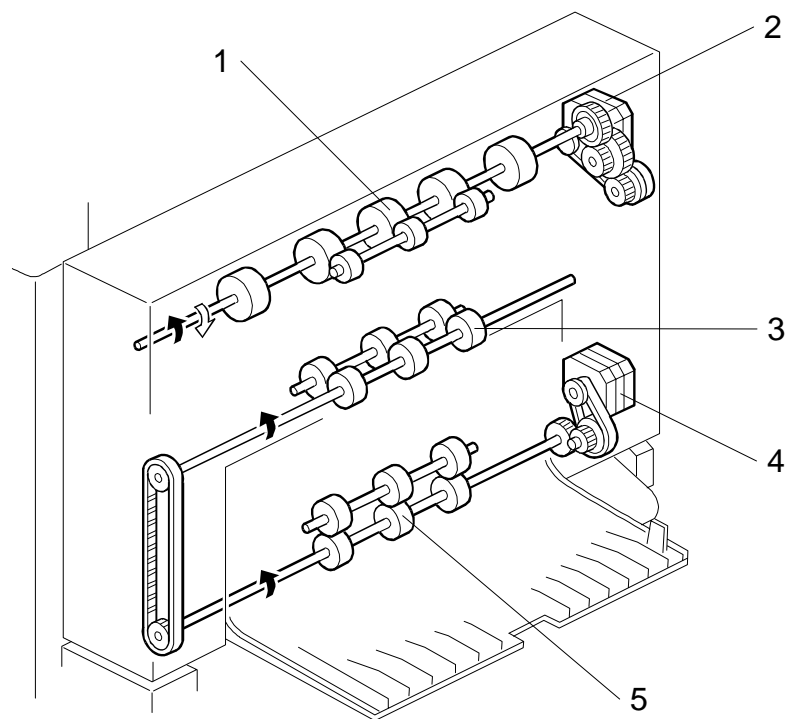
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- | | |
|----------------------------|-----------------------|
| 1. Entrance Sensor | 5. Main Board |
| 2. Duplex Unit Open Switch | 6. Transport Motor |
| 3. Inverter Gate Solenoid | 7. Exit Sensor |
| 4. Inverter Motor | 8. Cover Guide Sensor |

1.4 ELECTRICAL COMPONENT DESCRIPTION

Symbol	Name	Function	Index No.
Motors			
M1	Inverter	Drives the inverter roller.	4
M2	Transport	Drives the upper and lower transport rollers.	6
Sensors			
S1	Entrance	Detects the trailing edge of the copy paper to turn on the inverter gate solenoid and turn on the inverter motor in reverse. Checks for misfeeds.	1
S2	Exit	Checks for misfeeds.	7
S3	Cover Guide	Detects whether the cover guide is opened or not.	8
Switches			
SW1	Duplex Unit	Detects whether the duplex unit is opened or not.	2
Solenoids			
SOL1	Inverter Gate	Controls the inverter gate.	3
PCBs			
PCB1	Main	Controls the duplex unit and communicates with the copier.	5

1.5 DRIVE LAYOUT



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- | | |
|---------------------------|---------------------------|
| 1. Inverter Roller | 4. Transport Motor |
| 2. Inverter Motor | 5. Lower Transport Roller |
| 3. Upper Transport Roller | |

2. DETAILED DESCRIPTIONS

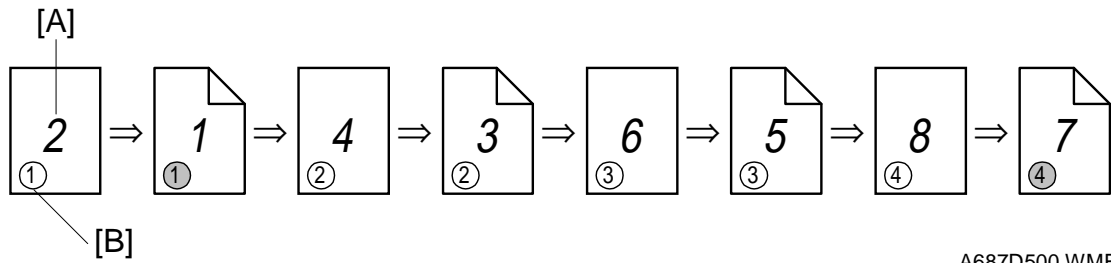
2.1 BASIC OPERATION

To increase the productivity of the duplex unit, copies are printed as follows.

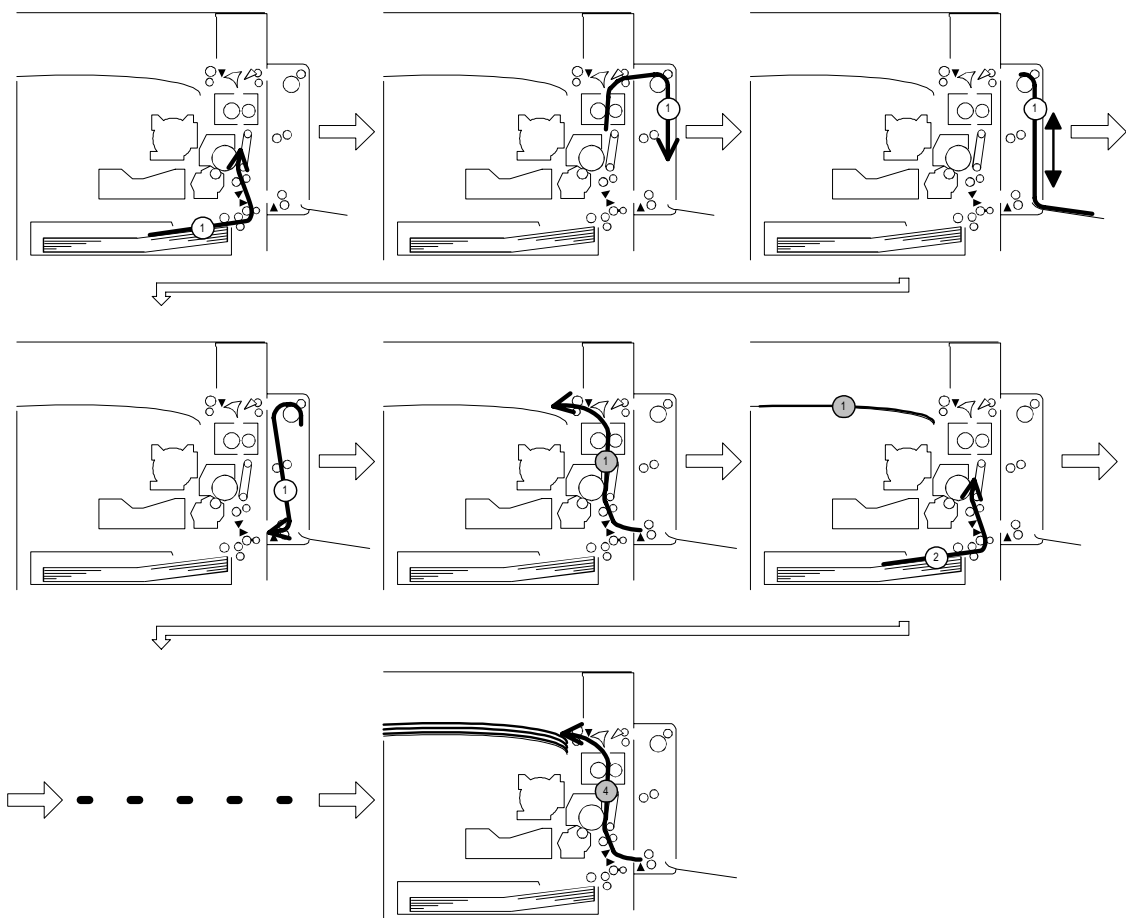
Larger than A4 lengthwise/LT lengthwise

The duplex unit can store only one sheet of copy 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 copy paper (if shaded, this indicates the second side).



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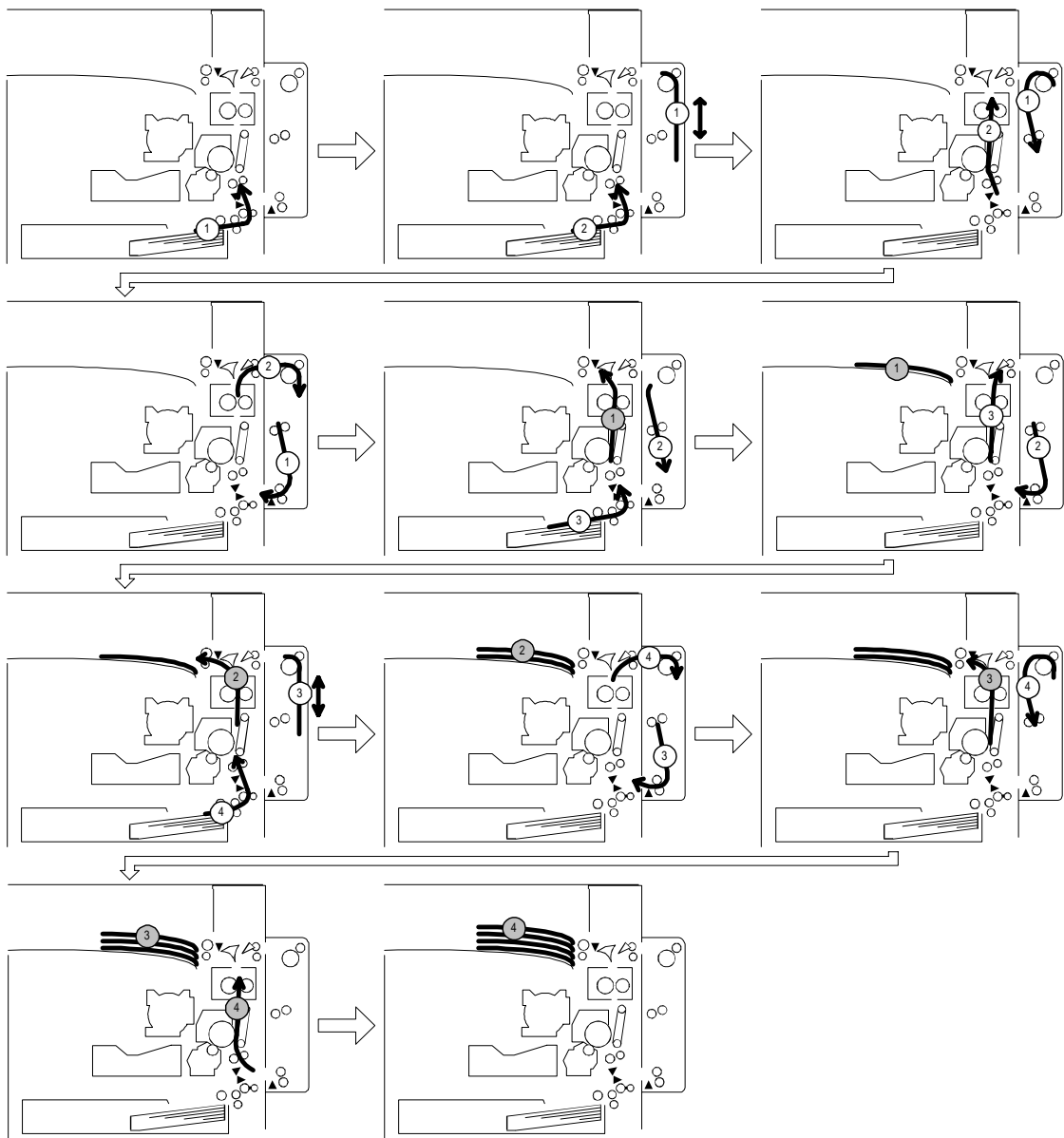
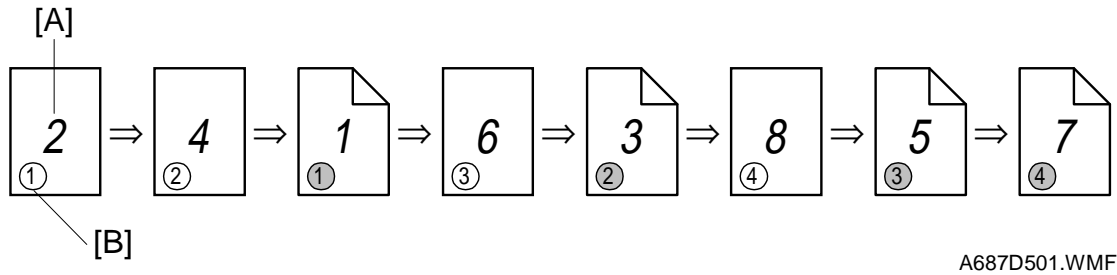


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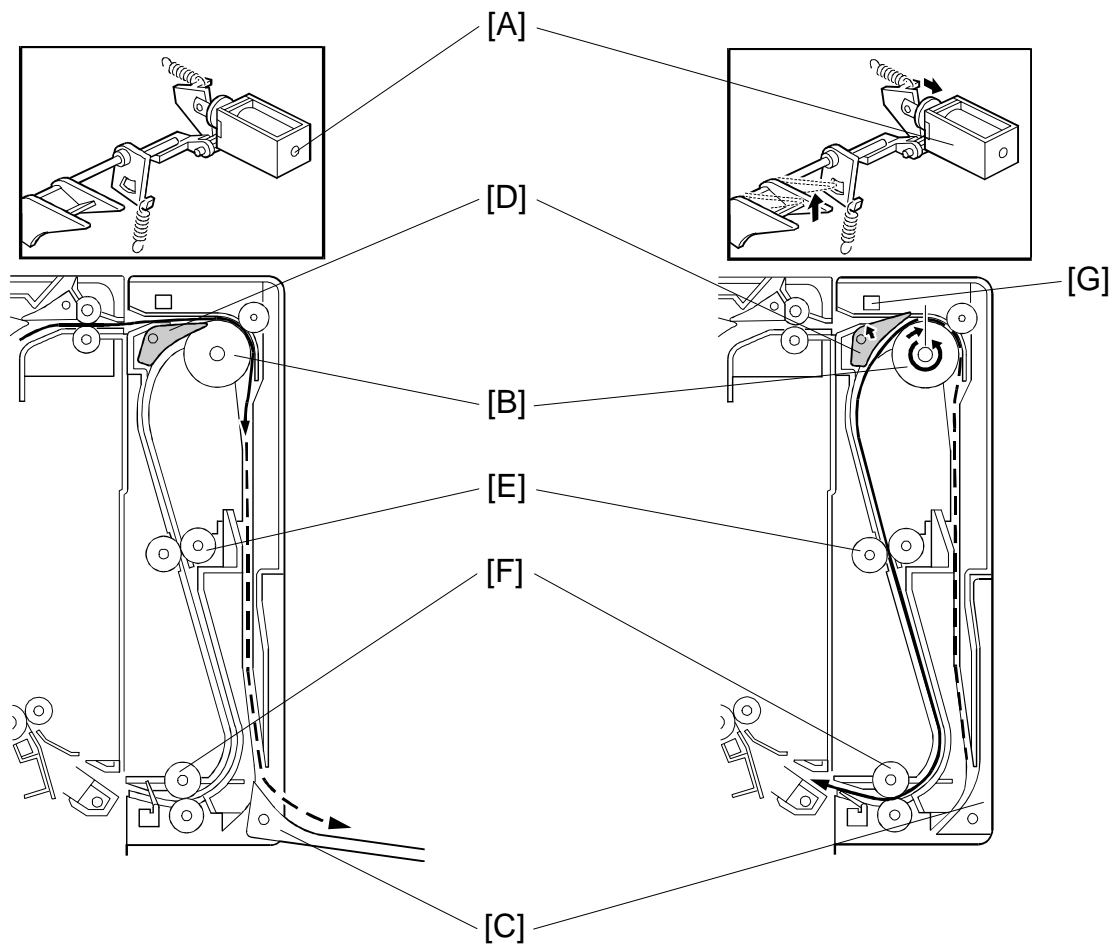
Up to A4 lengthwise/LT lengthwise

The duplex unit can store two sheets of copy 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 copy paper (if shaded, this indicates the second side).



2.2 FEED IN AND EXIT MECHANISM



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Feed-in

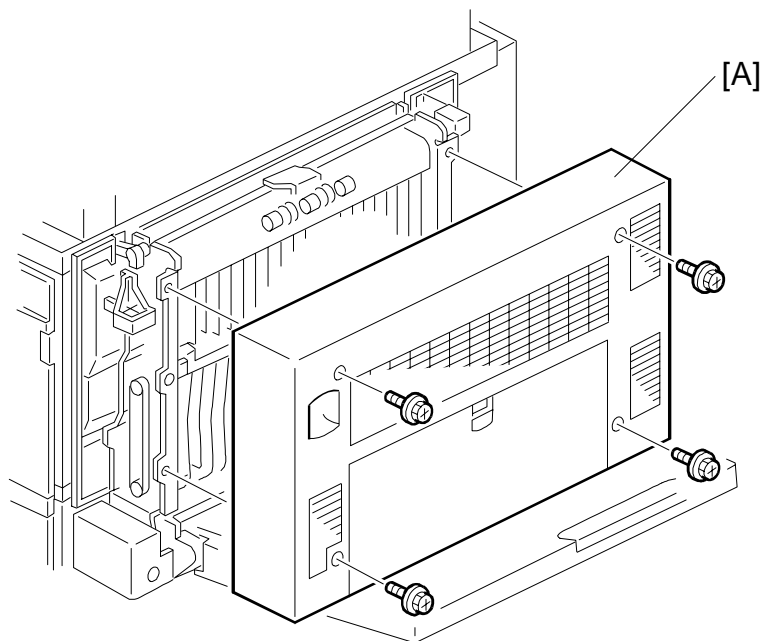
The inverter gate solenoid [A] stays off and the inverter roller [B] rotates clockwise. A sheet of paper is sent to the inverter section. The inverter section can stack sizes of up to A4 lengthwise when the cover guide [C] is closed. Therefore, the user must open the cover guide when using larger sizes of paper (longer than A4/LT lengthwise).

Inversion and Exit

The inverter gate solenoid turns on and the inverter motor turns on in reverse shortly after the trailing edge of the paper passes through the entrance sensor [G]. As a result, the inverter gate [D] is opened and the inverter roller rotates counterclockwise. The paper is sent to the copier through the upper and lower transport rollers [E, F].

3. REPLACEMENT AND ADJUSTMENT

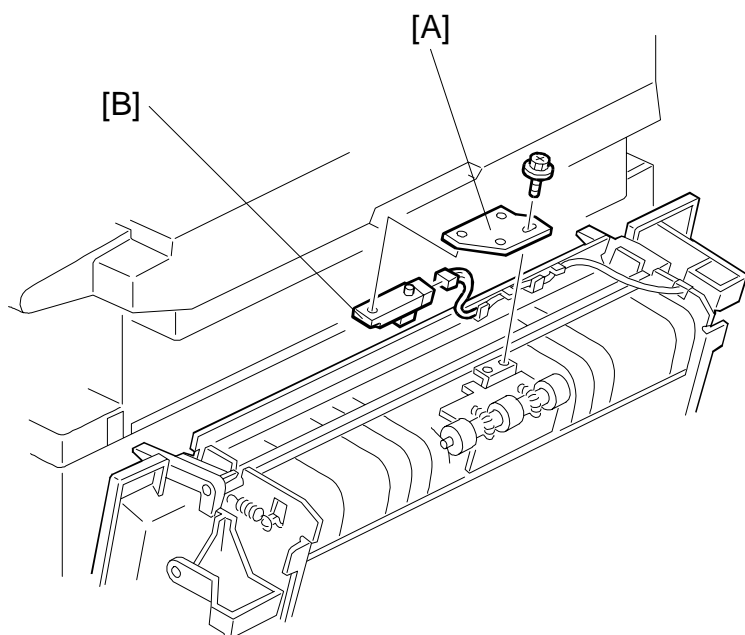
3.1 COVER REMOVAL



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1. Remove the duplex unit cover [A] (4 screws).

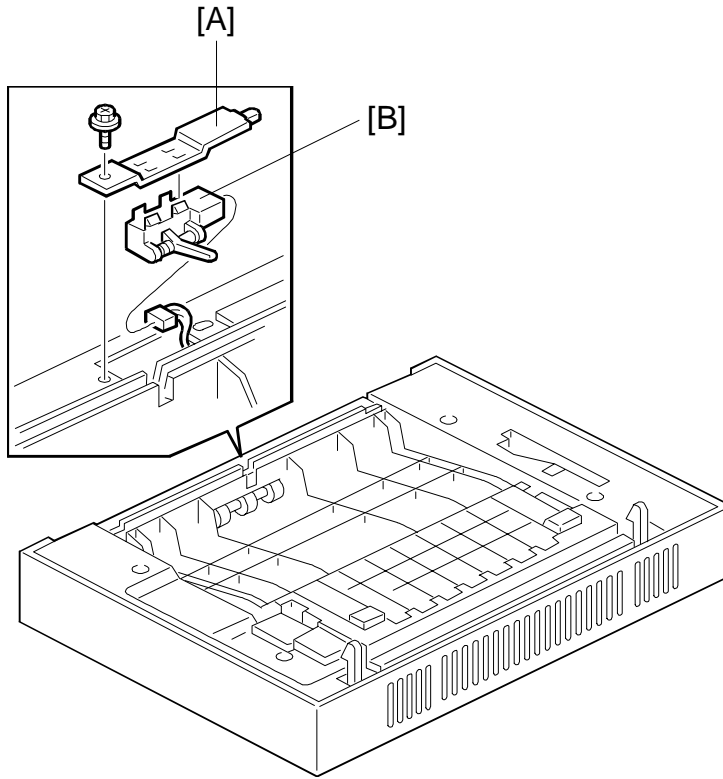
3.2 ENTRANCE SENSOR REPLACEMENT



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1. Remove the duplex unit cover.
2. Remove the sensor holder [A] (1 screw).
3. Replace the entrance sensor [B] (1 connector).

3.3 EXIT SENSOR REPLACEMENT



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1. Remove the duplex unit.
2. Remove the sensor bracket [A] (1 screw).
3. Replace the exit sensor [B] (1 connector).