

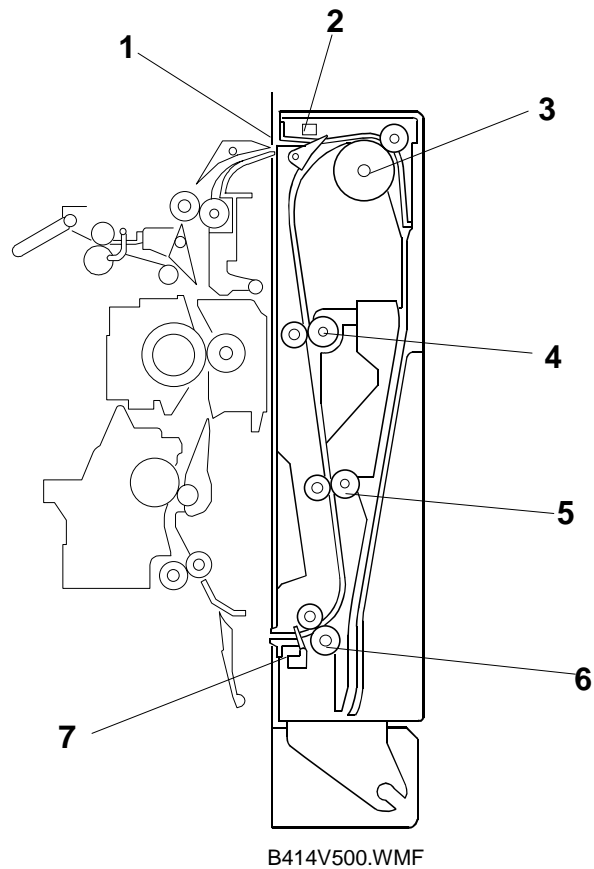
DUPLEX
(Machine Code: A896/B414)

1. OVERALL MACHINE INFORMATION

1.1 SPECIFICATIONS

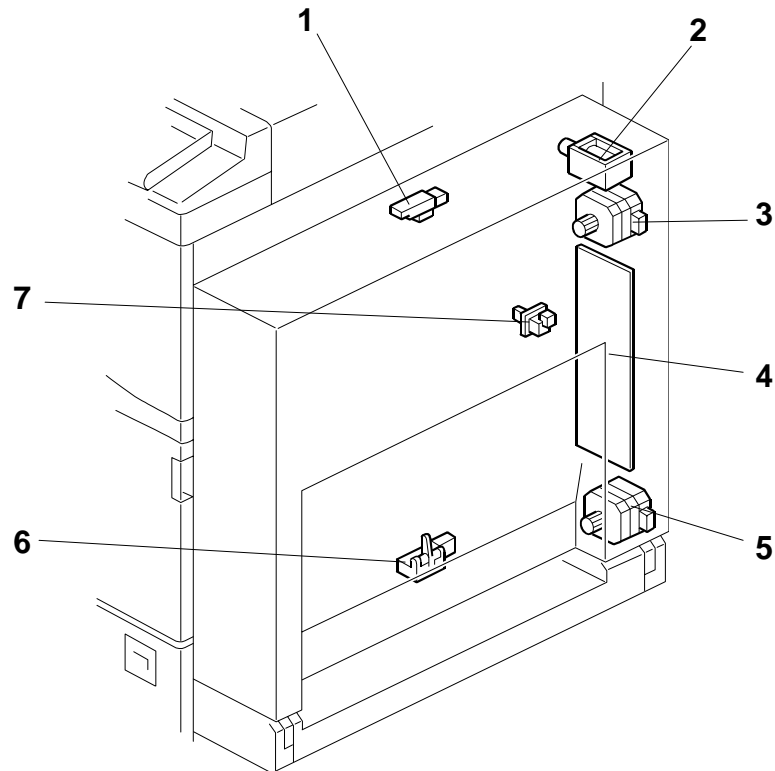
Paper Size:	Standard sizes A5 lengthwise to A3 HLT to DLT Non-standard sizes Width: 140 to 297 mm Length: 182 to 432 mm
Paper Weight:	64 g/m ² ~ 105 g/m ² , 20 lb ~ 28 lb
Tray Capacity:	1 sheet
Power Consumption:	40 W
Power Source:	DC 24 V, 5 V
Dimensions (W x D x H):	90 x 495 x 452 mm
Weight:	6 kg

1.2 MECHANICAL COMPONENT LAYOUT



- | | |
|---------------------------|----------------------------|
| 1. Inverter Gate | 5. Middle Transport Roller |
| 2. Entrance Sensor | 6. Lower Transport Roller |
| 3. Inverter Roller | 7. Exit Sensor |
| 4. Upper Transport Roller | |

1.3 ELECTRICAL COMPONENT LAYOUT



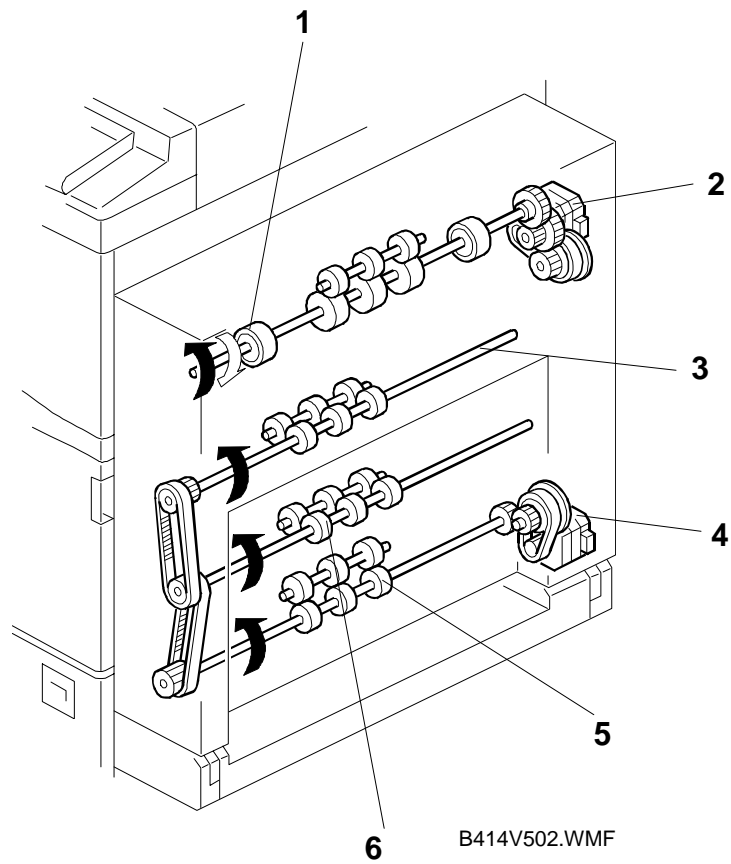
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- | | |
|---------------------------|----------------------------|
| 1. Entrance Sensor | 5. Transport Motor |
| 2. Inverter Gate Solenoid | 6. Exit Sensor |
| 3. Inverter Motor | 7. Duplex Unit Open Switch |
| 4. Main Board | |

1.4 ELECTRICAL COMPONENT DESCRIPTION

Symbol	Name	Function	Index No.
Motors			
M1	Inverter	Drives the inverter roller.	3
M2	Transport	Drives the upper and lower transport rollers.	5
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.	6
Switches			
SW1	Duplex Unit Open	Detects whether the duplex unit is opened or not.	7
Solenoids			
SOL1	Inverter Gate	Controls the inverter gate.	2
PCBs			
PCB1	Main	Controls the duplex unit and communicates with the copier.	4

1.5 DRIVE LAYOUT



- | | |
|---------------------------|----------------------------|
| 1. Inverter Roller | 4. Transport Motor |
| 2. Inverter Motor | 5. Lower Transport Roller |
| 3. Upper Transport Roller | 6. Middle Transport Roller |

2. DETAILED DESCRIPTIONS

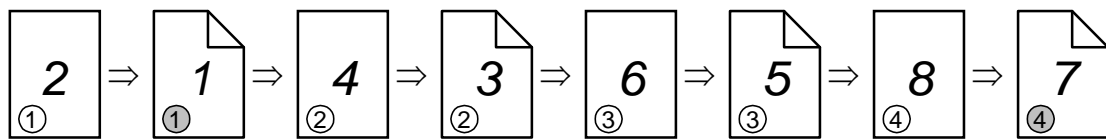
2.1 BASIC OPERATION

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

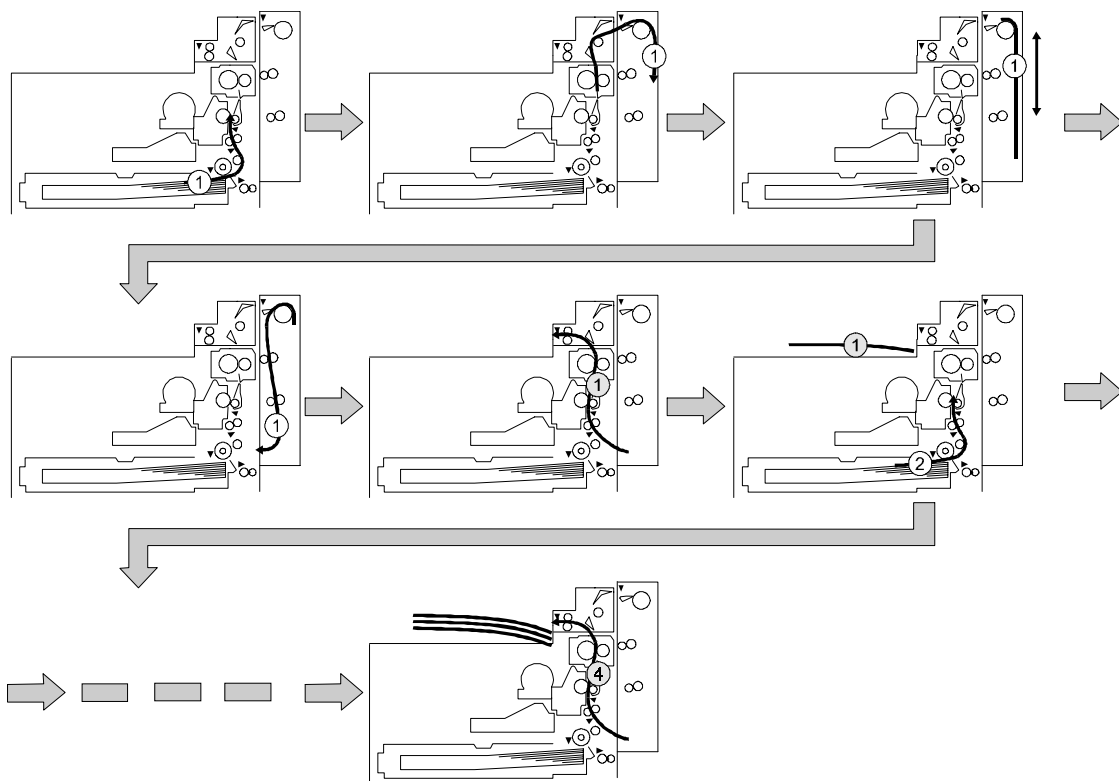
Longer than A4 sideways/LT sideways

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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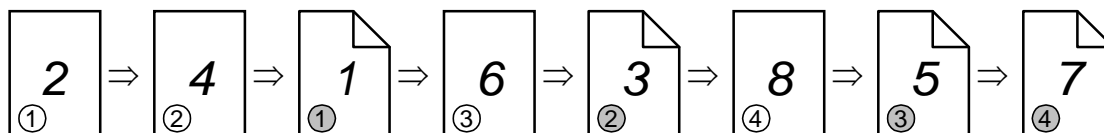


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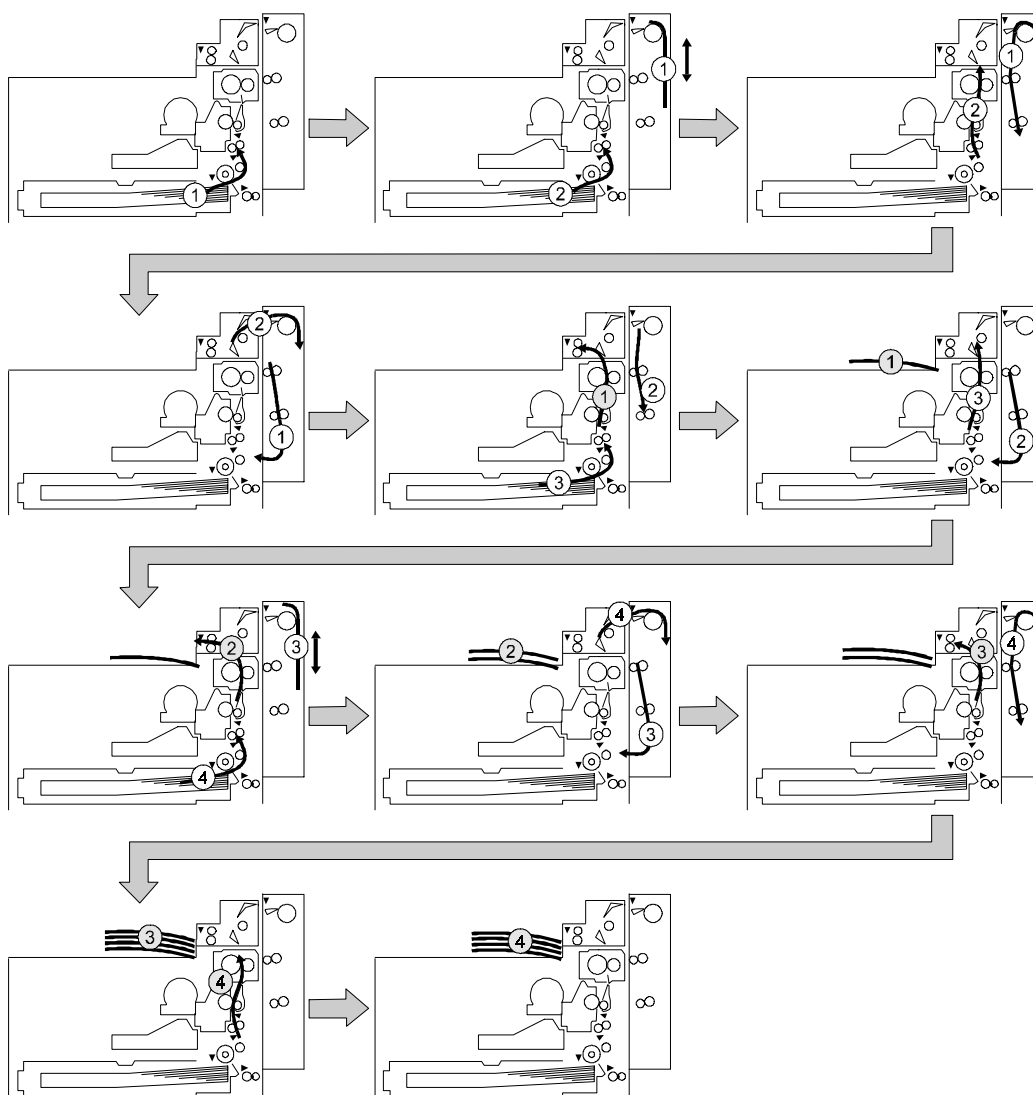
Up to A4 sideways/LT sideways

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).



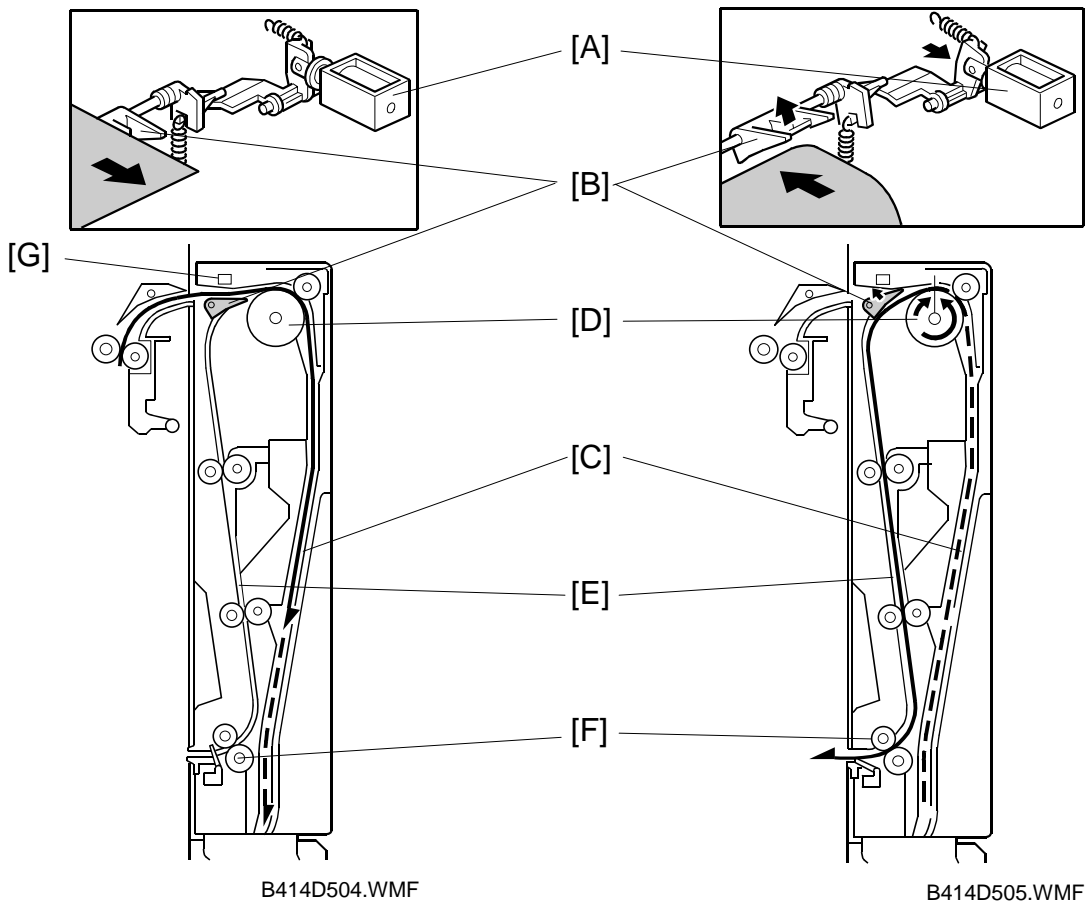
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Options

2.2 FEED IN AND EXIT MECHANISM



When paper is fed into duplex unit:

As soon as the paper arrives from the interchange unit, it is sent to the inverter section [C] (the inverter gate solenoid [A] remains off during this process).

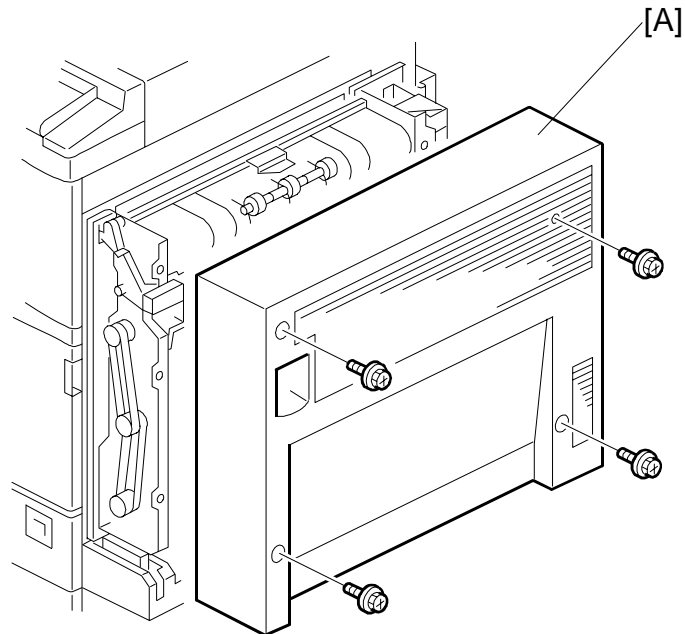
The inverter section can hold a sheet of paper up to A3 size. Because of this, the cover guide used in the previous model has become obsolete and has been eliminated from the design.

Inversion and Exit:

Shortly after the trailing edge of the paper passes the entrance sensor [G], the inverter gate solenoid [A] switches on and the inverter gate [B] switches over to direct the paper to the exit path [E]. The inverter roller [D] then changes its rotation direction and the paper goes to the exit transport area [F]. The paper is then sent to the registration rollers in the main copier via the transport rollers.

3. REPLACEMENT AND ADJUSTMENT

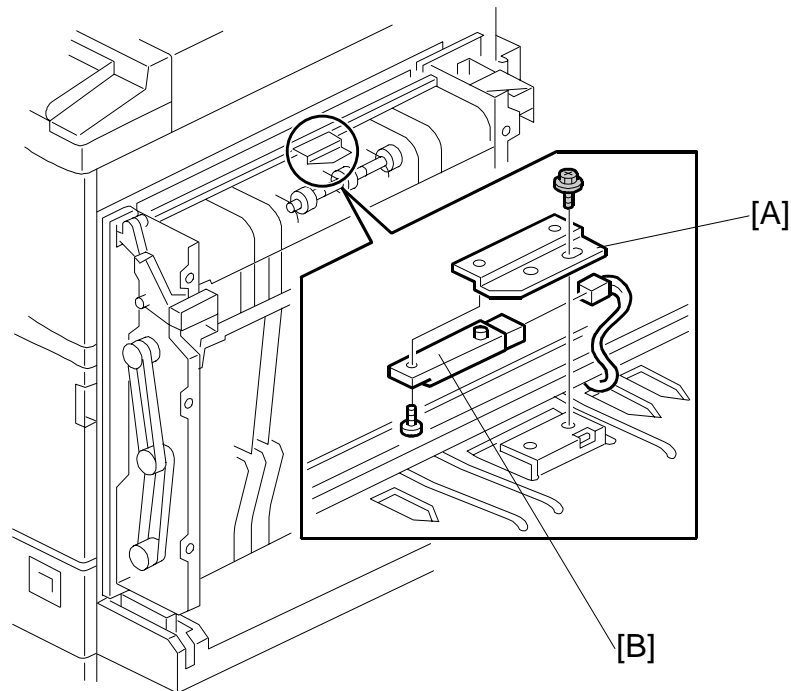
3.1 COVER REMOVAL



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

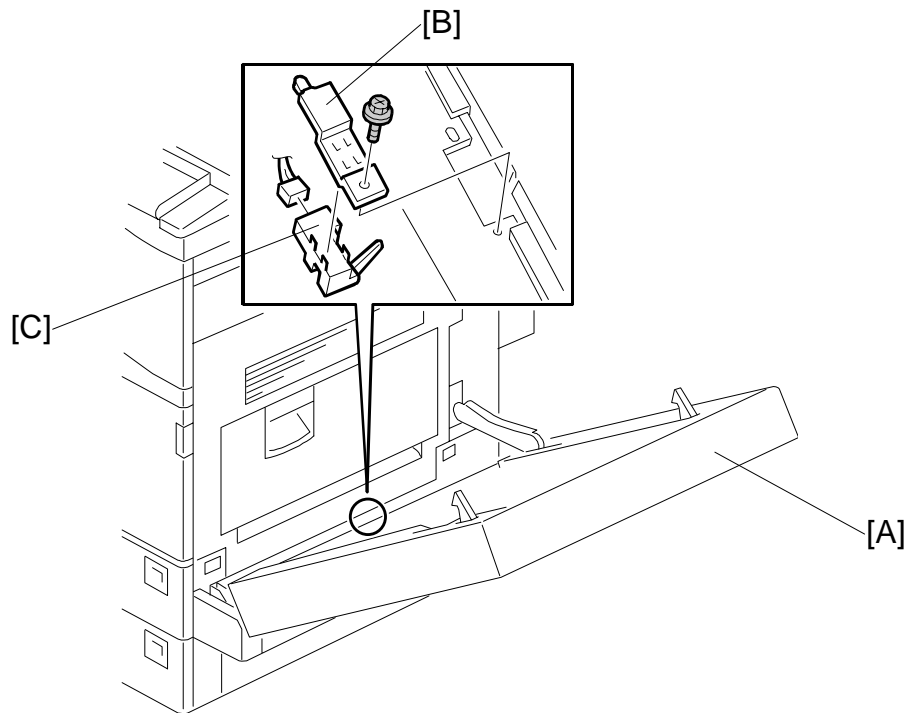
3.2 ENTRANCE SENSOR REPLACEMENT



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1. Remove the duplex unit cover. (Refer to section 3.1.)
2. Remove the sensor holder [A] (1 screw).
3. Replace the entrance sensor [B] (1 connector, 1 screw).

3.3 EXIT SENSOR REPLACEMENT



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