

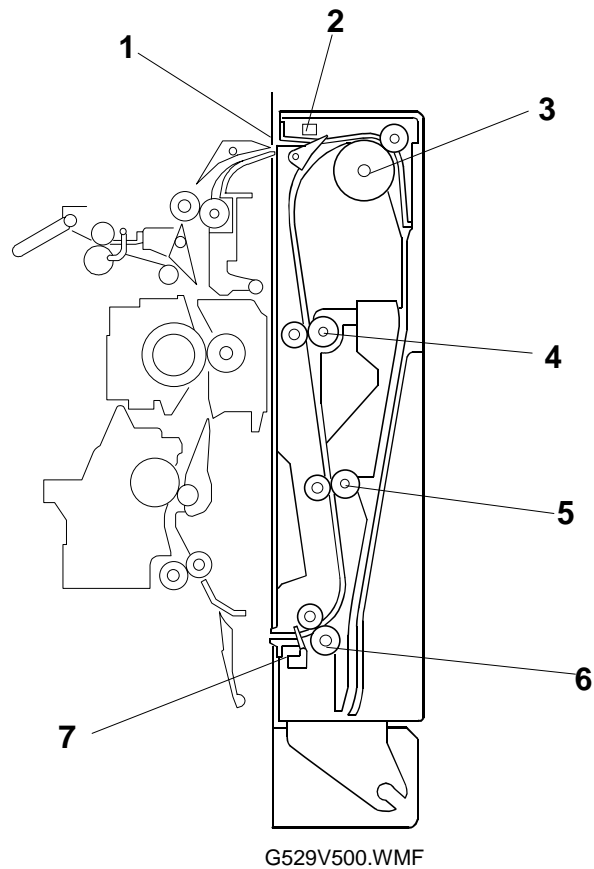
DUPLEX UNIT
(Machine Code: G529/G582)

1. OVERALL MACHINE INFORMATION

1.1 SPECIFICATIONS

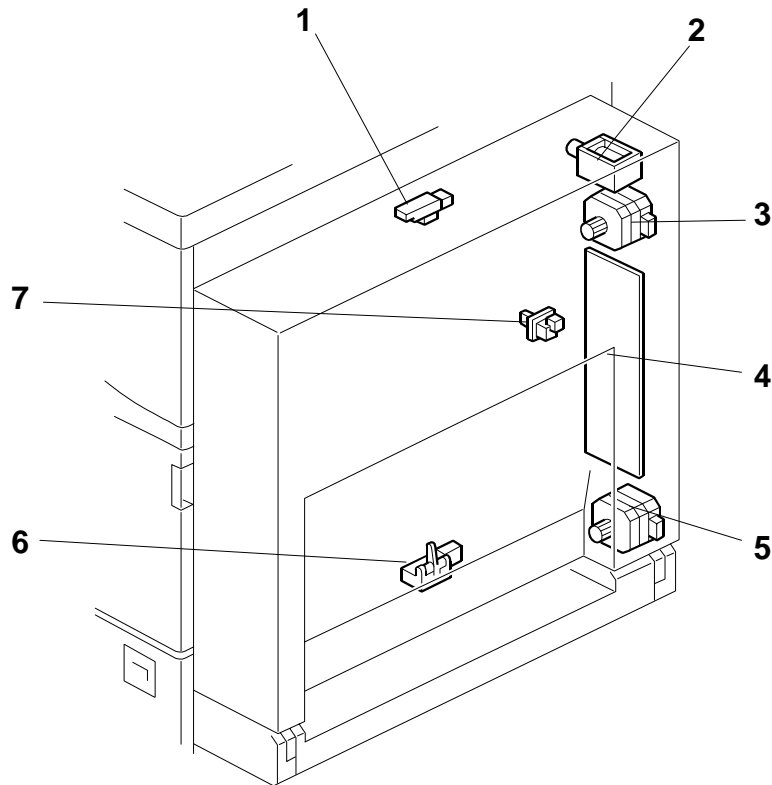
Paper Size:	Standard sizes A5 SEF to A3 HLT to DLT Non-standard sizes Width: 100 to 305 mm Length: 148 to 432 mm
Paper Weight:	60 g/m ² ~ 105 g/m ² , 16 lb ~ 28 lb
Tray Capacity:	1 sheet
Power Consumption:	40 W
Power Source:	DC 24 V, 5 V (from the printer)
Dimensions (W x D x H):	90 x 495 x 452 mm
Weight:	6 kg (13.2 lbs)

1.2 MECHANICAL COMPONENT LAYOUT



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

1.3 ELECTRICAL COMPONENT LAYOUT



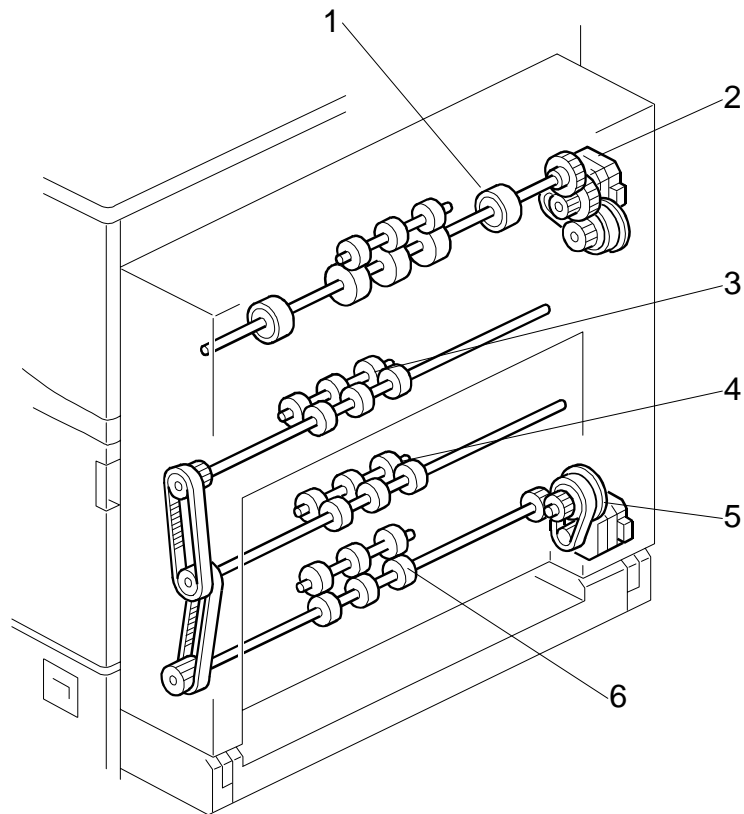
G529V501.WMF

- | | |
|---------------------------|----------------------------|
| 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 print 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 printer.	4

1.5 DRIVE LAYOUT



G529V502.WMF

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

2. DETAILED DESCRIPTIONS

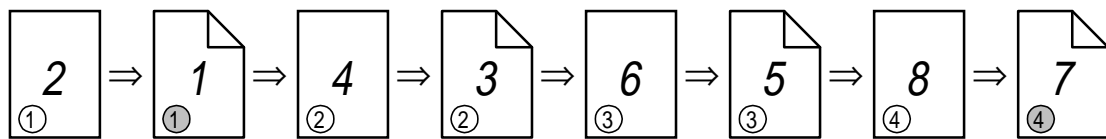
2.1 BASIC OPERATION

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

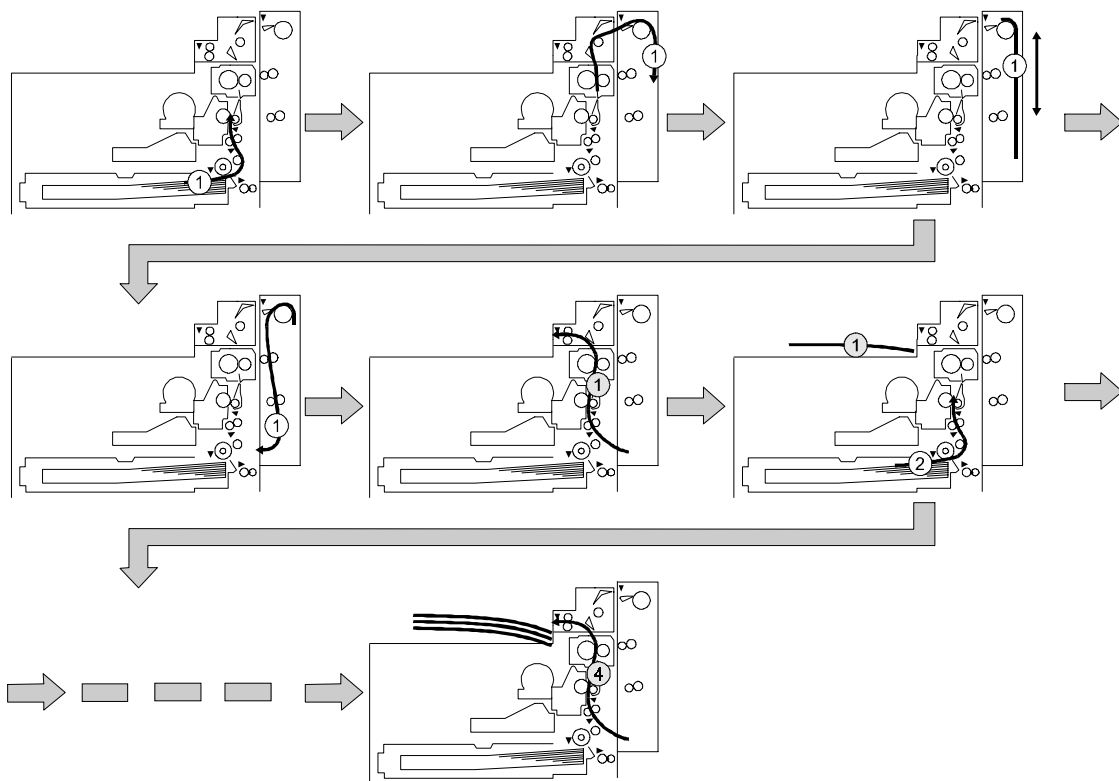
Larger than A4 lengthwise/LT lengthwise

The duplex unit can store only one sheet of print 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).



G529D519.WMF

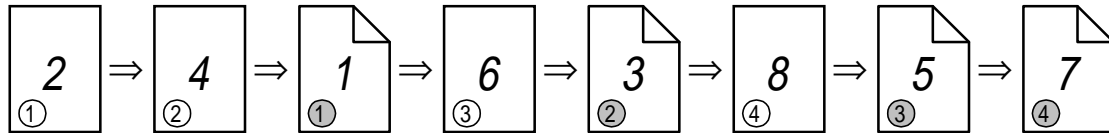


G529D518.WMF

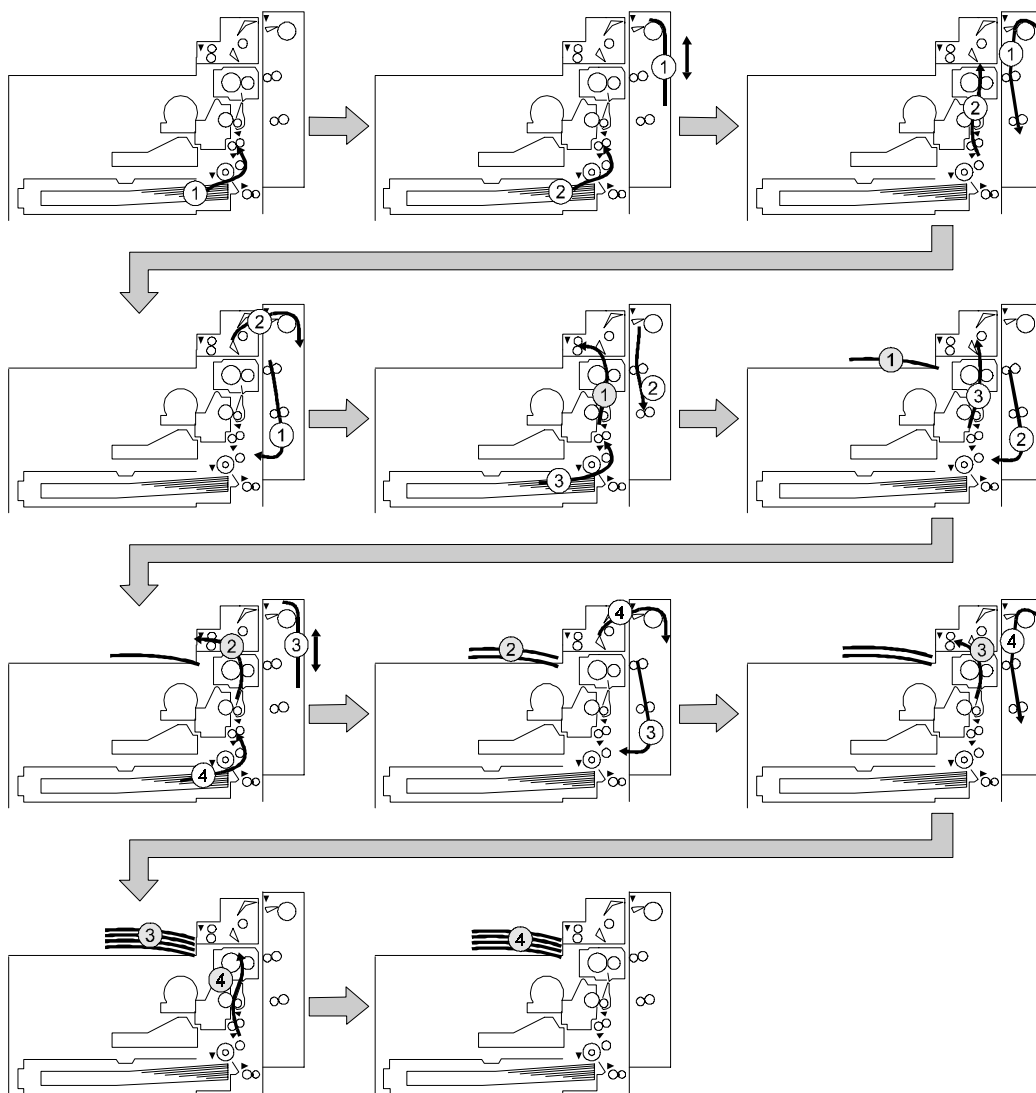
Up to A4 lengthwise/LT lengthwise

The duplex unit can store two sheets of print 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).



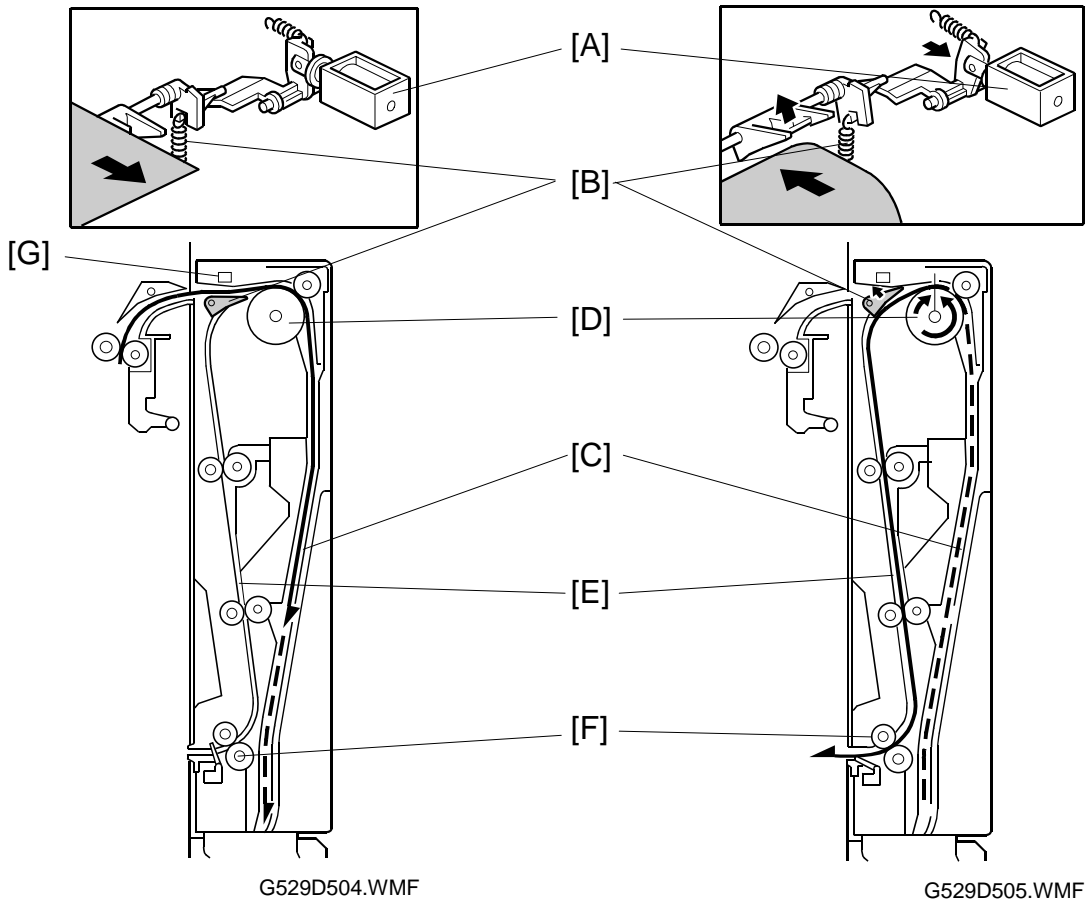
G529D520.WMF



G529D517.WMF

Options

2.2 FEED IN AND EXIT MECHANISM



When paper is fed into duplex unit:

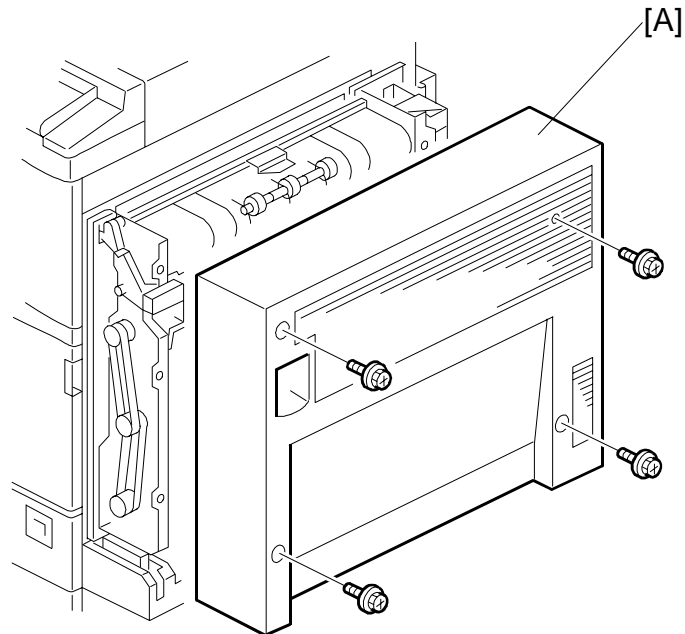
As soon as the paper is fed from the interchange unit, it is sent to the inverter section [C] (the inverter gate solenoid [A] remains off during this process). The inverter section can hold a sheet of paper up to A3 size

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 unit by the transport rollers.

3. REPLACEMENT AND ADJUSTMENT

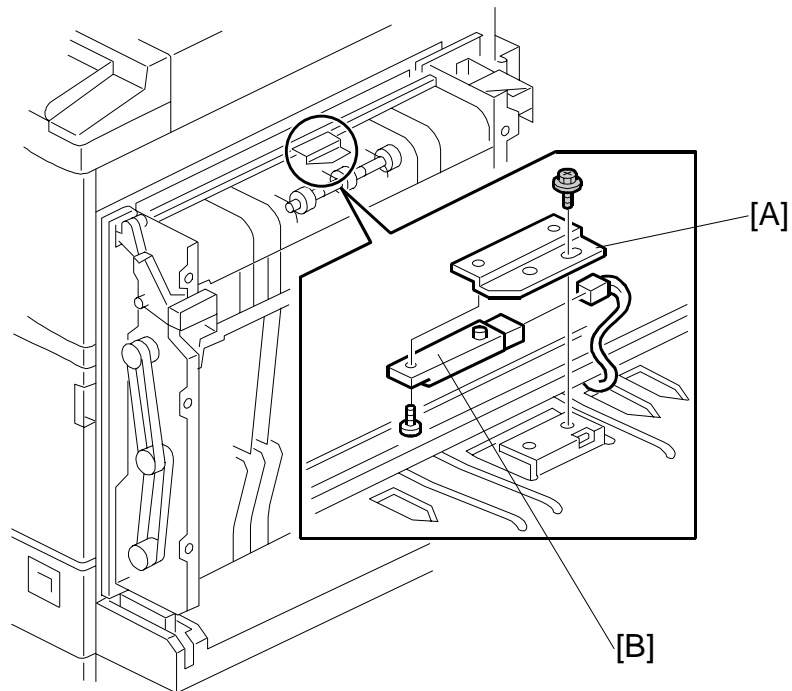
3.1 COVER REMOVAL



G529R501.WMF

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

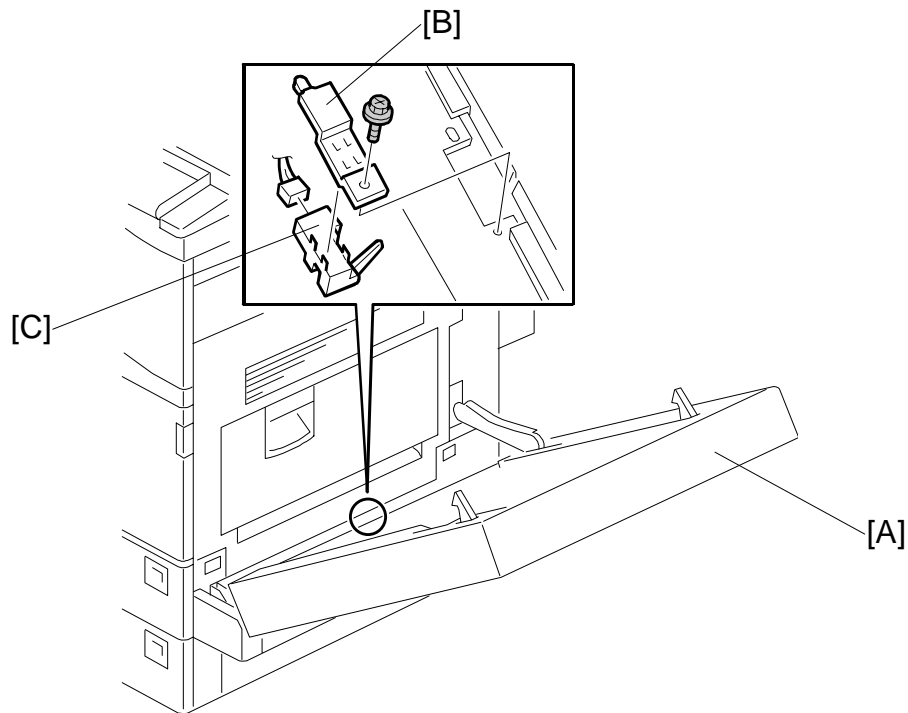
3.2 ENTRANCE SENSOR REPLACEMENT



G529R502.WMF

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



G529R503.WMF

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