Bridge Unit BU3010
Machine Code: D340

SERVICE MANUAL

March, 2007
Subject to change

Safety and Symbols

Replacement Procedure Safety

⚠CAUTION

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

Symbols Used in this Manual

This manual uses the following symbols.

☛: See or Refer to

: Screws

: Connector

: Clip ring

: E-ring

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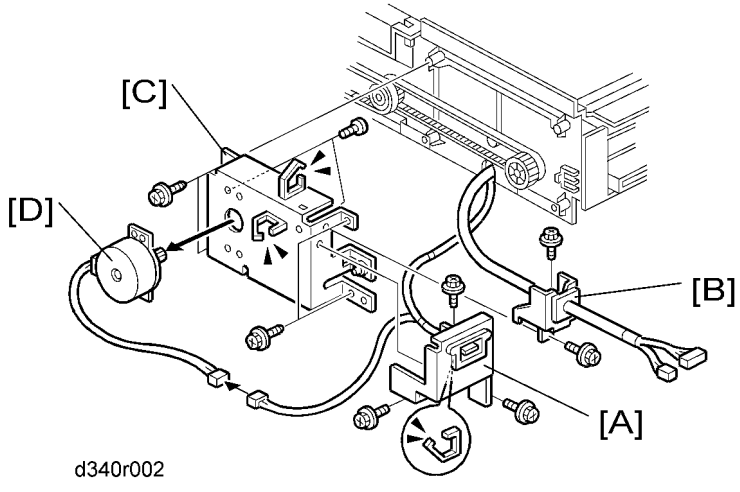
1. Replacement and Adjustment

Motor

⚠CAUTION

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

Bridge Unit Drive Motor



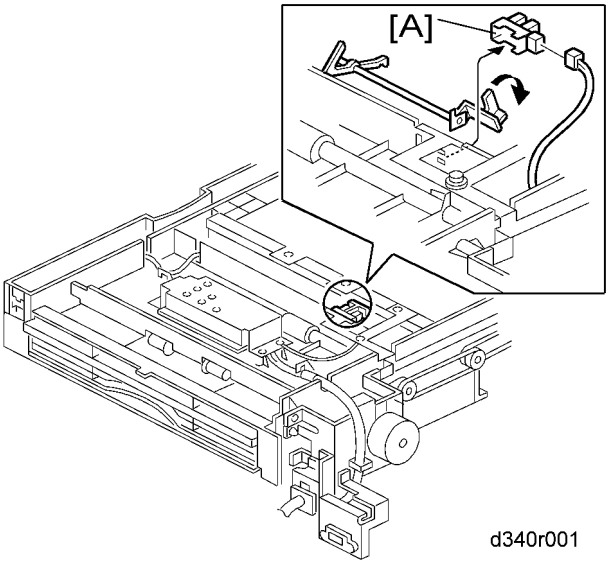
1. Bridge unit (☛ "Installation Procedure in the base copier manual")
2. I/F socket bracket [A] (🔩 x 3)
3. I/F connector bracket [B] (🔩 x 2)
4. Motor bracket [C] (🔩 x 4)
5. Bridge unit drive motor [D] (🔩 x 2)

Electrical Components

⚠CAUTION

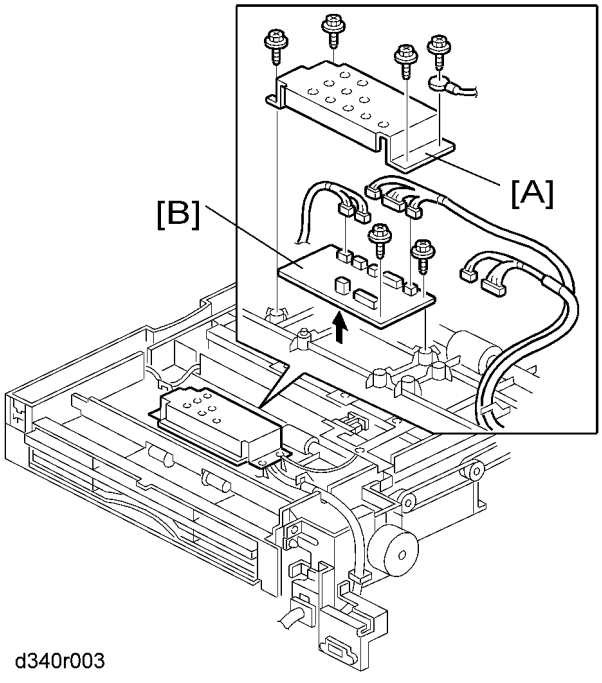
- Turn off the main power switch and unplug the machine before beginning any of the procedures in this section.

Tray Exit Sensor



1. Turn over the bridge unit.
2. Tray exit sensor [A] (☞ x 1, hooks)

Bridge Main Board



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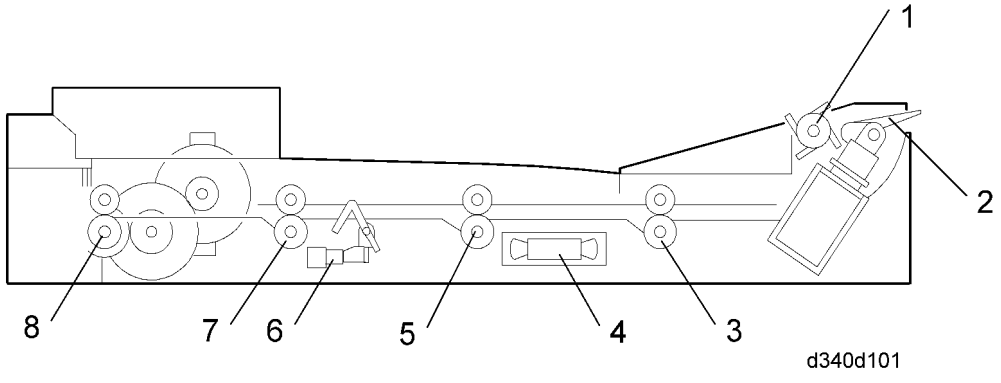
1. Turn over the bridge unit.
2. Cover bracket [A] (x 4, ground cable x 1)
3. Bridge main board [B] (x 2, all s)

2. Detailed Section Descriptions

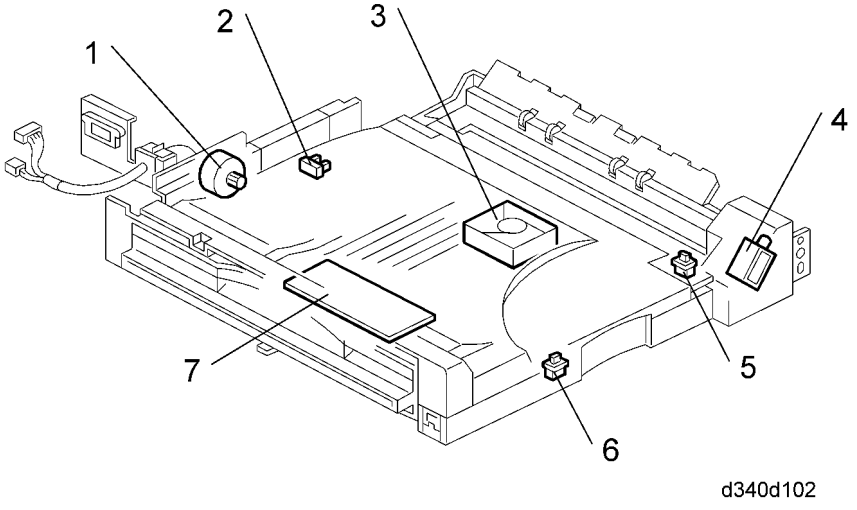
Component Layout

Mechanical Component Layout



1. Upper Exit Roller	5. 2nd Transport Roller
2. Junction Gate	6. Tray Exit Sensor
3. 1st Transport Roller	7. 3rd Transport Roller
4. Cooling Fan	8. Left Exit Roller

Electrical Component Layout



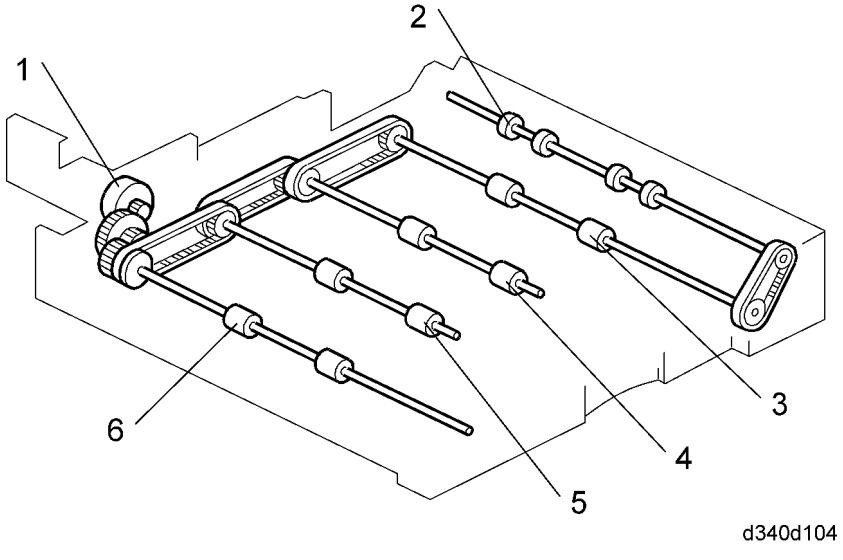
1. Bridge Unit Drive Motor 2. Tray Exit Sensor 3. Cooling Fan 4. Junction Gate Solenoid	5. Right Guide Switch 6. Left Guide Switch 7. Bridge Unit Control Board

Electrical Component Description

Symbol	Name	Function	Index No.
Motors			
M1	Bridge Unit Drive	Drives the bridge unit.	1
M2	Cooling Fan	Cools the transport unit.	3
Sensors			
S1	Tray Exit	Checks for misfeeds.	2
Switches			
SW2	Right Guide	Detects when the right guide is opened.	5

Symbol	Name	Function	Index No.
SW3	Left Guide	Detects when the left guide is opened.	6
Solenoids			
SOL1	Junction Gate	Moves the junction gate to direct the paper to the upper tray (on top of the bridge unit) or to the finisher.	4
PCBs			
PCB1	Bridge Unit Control Board	Controls the bridge unit.	7

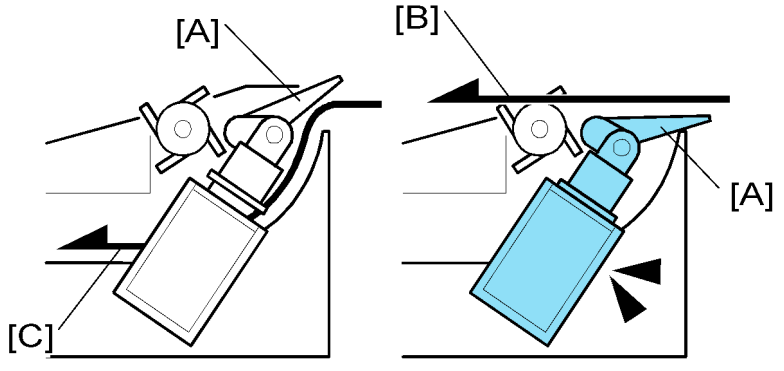
Drive Layout



1. Bridge Unit Drive Motor	4. 2nd Transport Roller
2. Upper Exit Roller	5. 3rd Transport Roller
3. 1st Transport Roller	6. Left Exit Roller

Overview

Junction Gate Mechanism



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The junction gate [A] directs any paper reaching the bridge unit to either the upper tray (on top of the bridge unit) or to the finisher, depending on which has been selected.

If the junction gate solenoid has been activated, the junction gate [A] points downward and directs the paper to the upper tray [B] (dotted line path in illustration). When the solenoid is off, the junction gate points upward and the paper is fed out to the finisher [C] by the transport and left exit rollers (solid line).

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