

1 Bin Tray BN3000
Machine Code: B790

SERVICE MANUAL

Apr. 21st, 2006
Subject to change

Read This First

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

Table of Contents

Read This First i

 Safety and Symbols i

 Replacement Procedure Safety i

 Symbols Used in this Manual i

Table of Contents ii

1. Replacement and Adjustment 1

 Paper Sensor Removal 1

 1-Bin Tray Exit Sensor and LED Control Board 1

2. Detailed Descriptions 2

 Component Layout 2

 Mechanical Component Layout 2

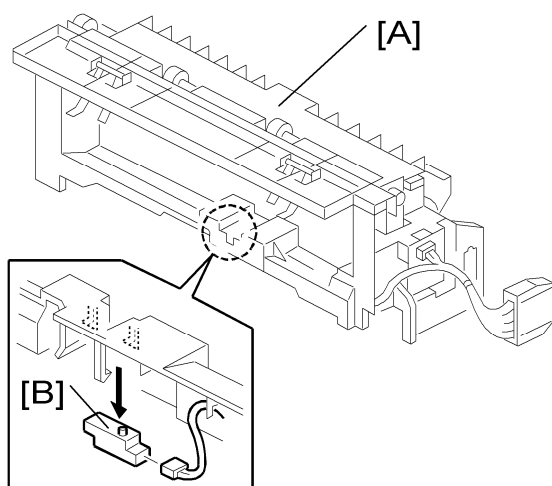
 Electrical Component Layout 2

 Electrical Component Descriptions 3

 Basic Operation 4

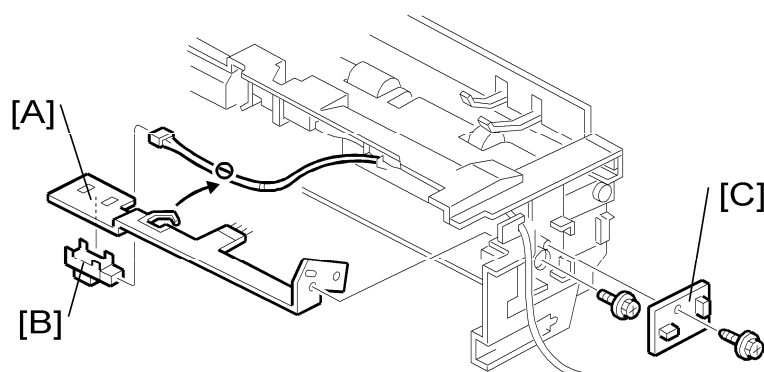
1. Replacement and Adjustment

Paper Sensor Removal



1. 1-bin-tray
2. 1-bin sorter unit [A]
3. Paper sensor [B] (hook x 1, hook x 3)

1-Bin Tray Exit Sensor and LED Control Board

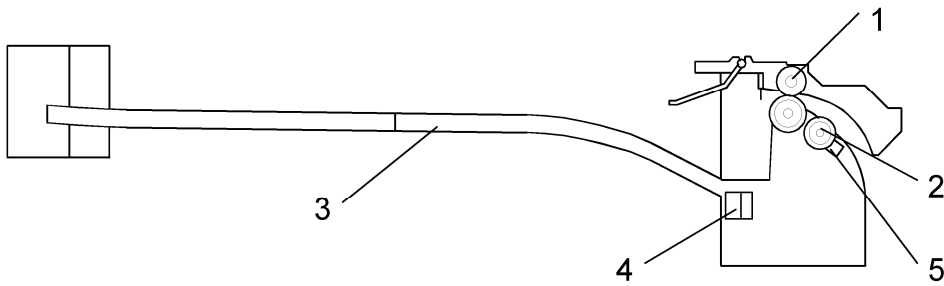


1. 1-bin tray
2. 1-bin sorter unit
3. Sensor bracket [A] (hook x 1, hook x 1).
4. Remove the 1-bin tray exit sensor [B] (hook x 1, hook x 4)
5. LED control board [C] (hook x 1, hook x 2)

2. Detailed Descriptions

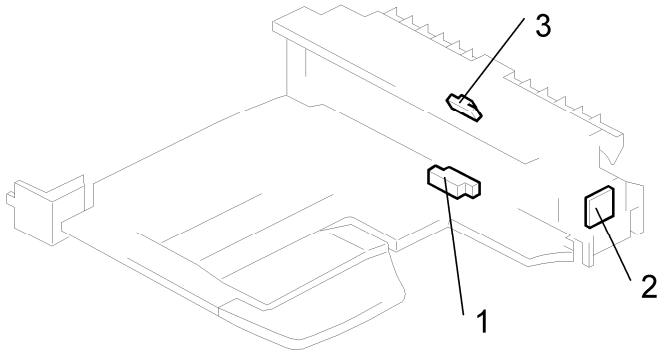
Component Layout

Mechanical Component Layout



- 1. Exit Roller
- 2. Drive Gear
- 3. Paper Tray
- 4. Paper Sensor
- 5. 1-Bin Tray Exit Sensor

Electrical Component Layout



- 1. Paper Sensor
- 2. LED Control Board
- 3. 1-Bin Tray Exit Sensor

Electrical Component Descriptions

Symbol	Name	Function	Index No.
Sensors			
S1	Paper	Detects whether there is paper on the tray.	1
S2	1-Bin Tray Exit	Detects a paper jam.	3
PCB			
PCB1	LED Control Board	Indicates when there is paper in the tray.	2

Basic Operation

At the appropriate time after the leading edge of the first sheet of copy paper reaches the copier's registration roller, the junction gate solenoid turns on to switch the junction gate to direct the paper to the 1-bin paper tray.

The junction gate solenoid turns off at the appropriate time after the paper is directed to the 1-bin paper tray. The main motor in the copier stops after the final sheet passes the 1-bin tray exit sensor and arrives on the tray.

The paper sensor turns on when there is paper in the tray, and the paper indicator turns on. The tray can be opened for easier jam removal by swinging the tray to the left.