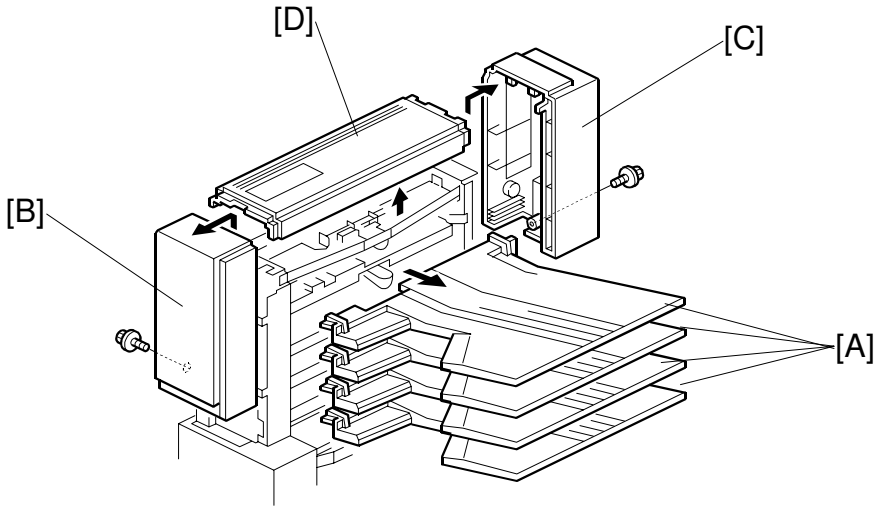
FOUR-BIN MAILBOX
(Machine Code: G566)

1. REPLACEMENT AND ADJUSTMENT

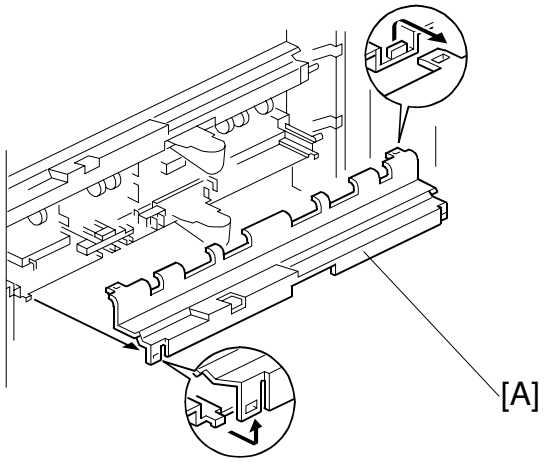
1.1 EXTERIOR COVER REMOVAL



G566R101.WMF

1. Trays [A]
   NOTE: To remove the trays, grasp the edges and lift.
2. Front cover [B] (x 1)
3. Rear cover [C] (x 1)
4. Upper cover [D]

1.2 TRAY PAPER/OVERFLOW/VERTICAL TRANSPORT SENSORS



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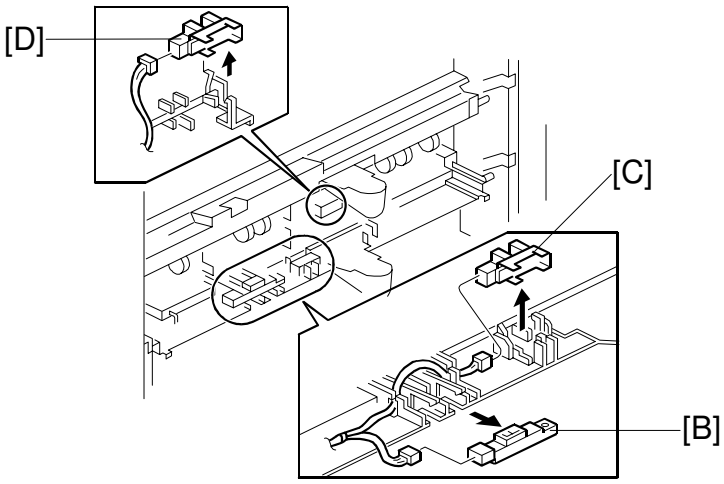

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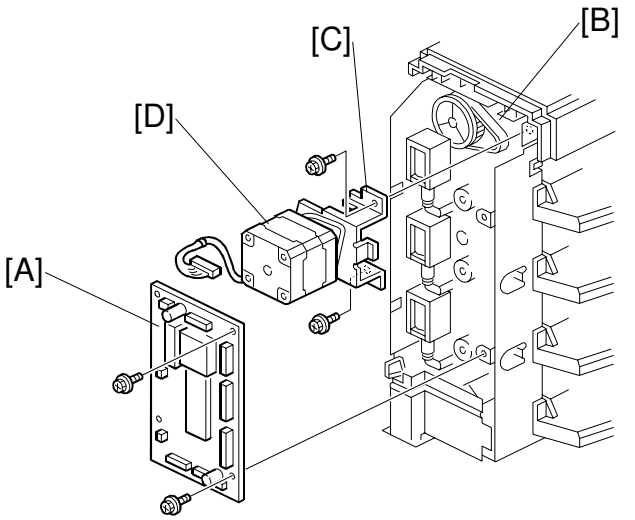
1. Trays
2. Bin cover [A]
3. Tray paper sensor [B] (☞ x 1)
   Overflow sensor [C] (☞ x 1)
   Vertical transport sensor [D] (☞ x 1)
4. Remove both the tray paper and overflow sensors as shown in the illustration.
   For the vertical transport sensor, lift up the locking pawls (slightly).
   Remove the sensor by rotating the bottom part upward.

1.3 MAIN MOTOR REPLACEMENT



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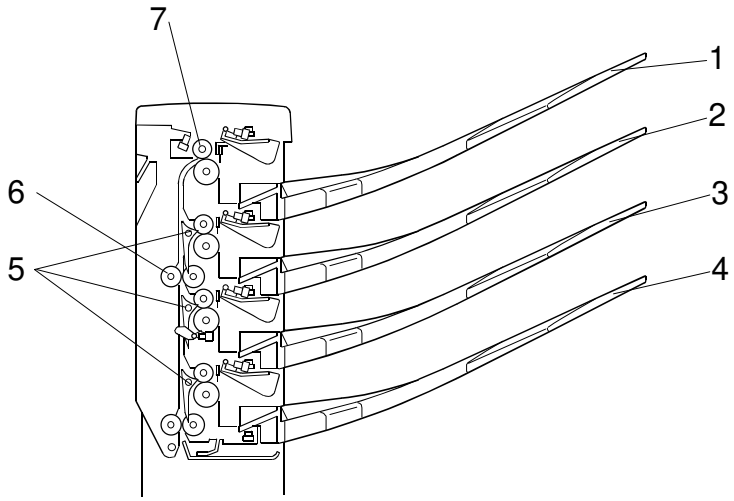
1. Rear cover (☛ 1.1 EXTERIOR COVER REMOVAL)
2. Control board [A] (🔩 x 2, all connectors)
3. Timing belt [B]
4. Main motor bracket [C]
5. Main motor [D] (🔩 x 2)

2. DETAILED DESCRIPTIONS

2.1 COMPONENT LAYOUT

2.1.1 MECHANICAL COMPONENT LAYOUT



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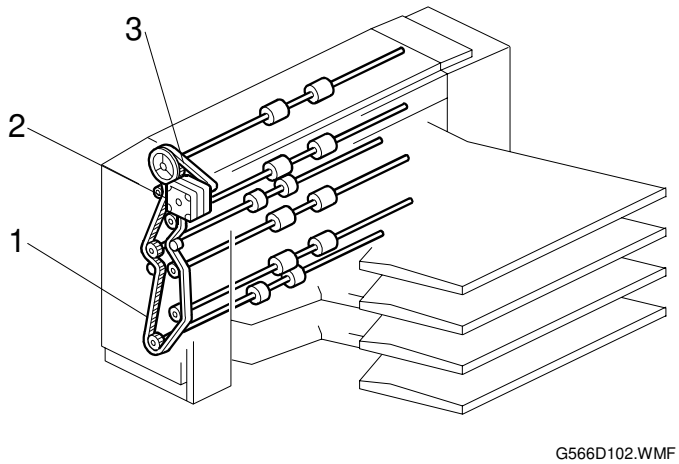
1. 4th Tray
2. 3rd Tray
3. 2nd Tray
4. 1st Tray
5. Turn Gates
6. Vertical Transport Roller
7. Tray Feed Out Roller

2.1.2 DRIVE LAYOUT



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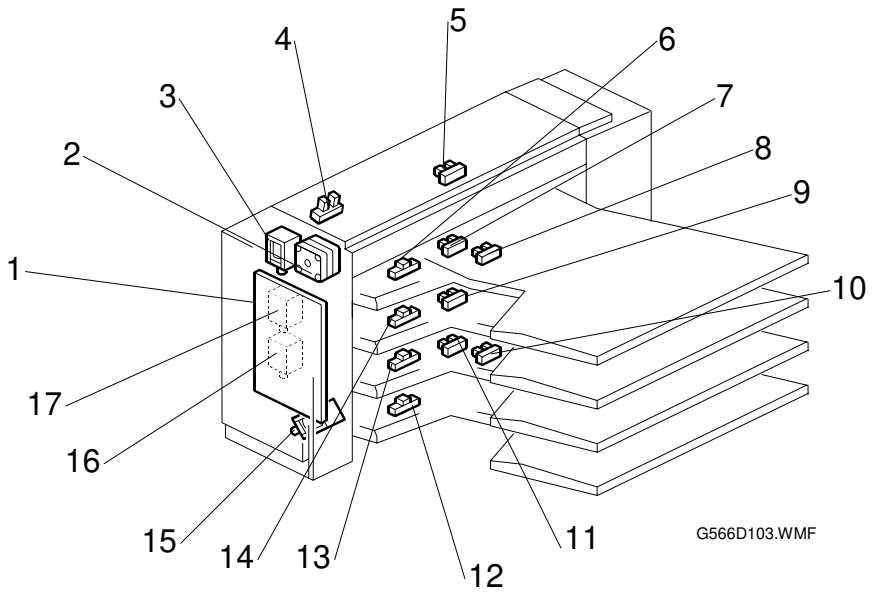
1. Timing Belt
2. Main Motor
3. Main Motor Timing Belt

2.2 ELECTRICAL COMPONENT DESCRIPTIONS



1. Main control PCB
2. Main motor
3. Junction gate solenoid 3
4. Door sensor
5. Tray 4 paper overflow sensor
6. Tray 4 paper sensor
7. Tray 3 paper overflow sensor
8. Upper vertical transport sensor
9. Tray 2 paper overflow sensor
10. Lower vertical transport sensor
11. Tray 1 paper overflow sensor
12. Tray 1 paper sensor
13. Tray 2 paper sensor
14. Tray 3 paper sensor
15. Junction gate solenoid 4
16. Junction gate solenoid 1
17. Junction gate solenoid 2

2.3 BASIC OPERATION

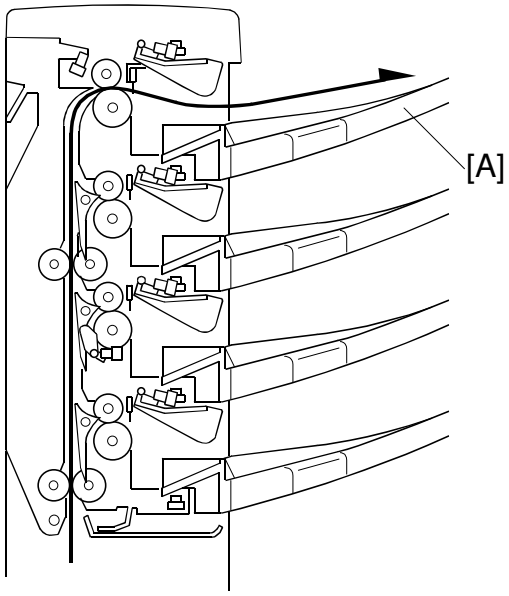
The mailbox is connected to the main unit with a 10-pin connector.

When the leading edge of the paper activates the exit sensor in the printer's main body, the mailbox main motor turns on and the mailbox rollers begin to turn. The paper is then fed out to the tray that has been selected.

Solenoids [B] open and close junction gates as shown, to direct the paper to the selected tray. When the top tray (tray 4) [A] is selected, none of the solenoids are activated. When the last sheet is fed out and turns off the vertical transport sensor, both the mailbox motor and the junction gate solenoid of the selected bin turn off.

The mailbox normally feeds paper at the same speed as the printer: 62.5 to 185 mm/s. (The mailbox is capable of feeding paper at 62 to 260 mm/s.)

Junction gate solenoid 4 [C] controls the junction gate [D] of the printer to direct paper either into the mailbox or to the standard output tray.



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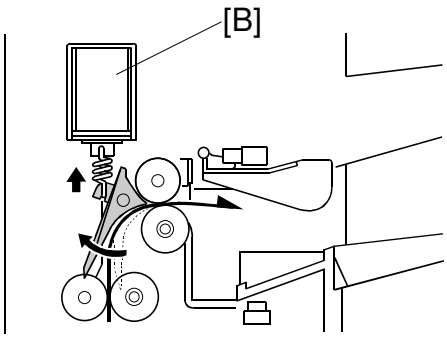

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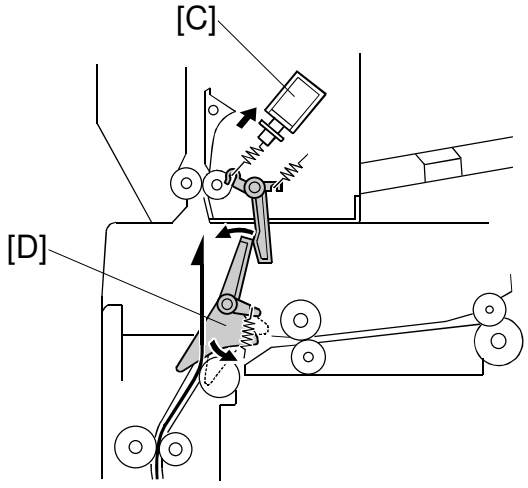

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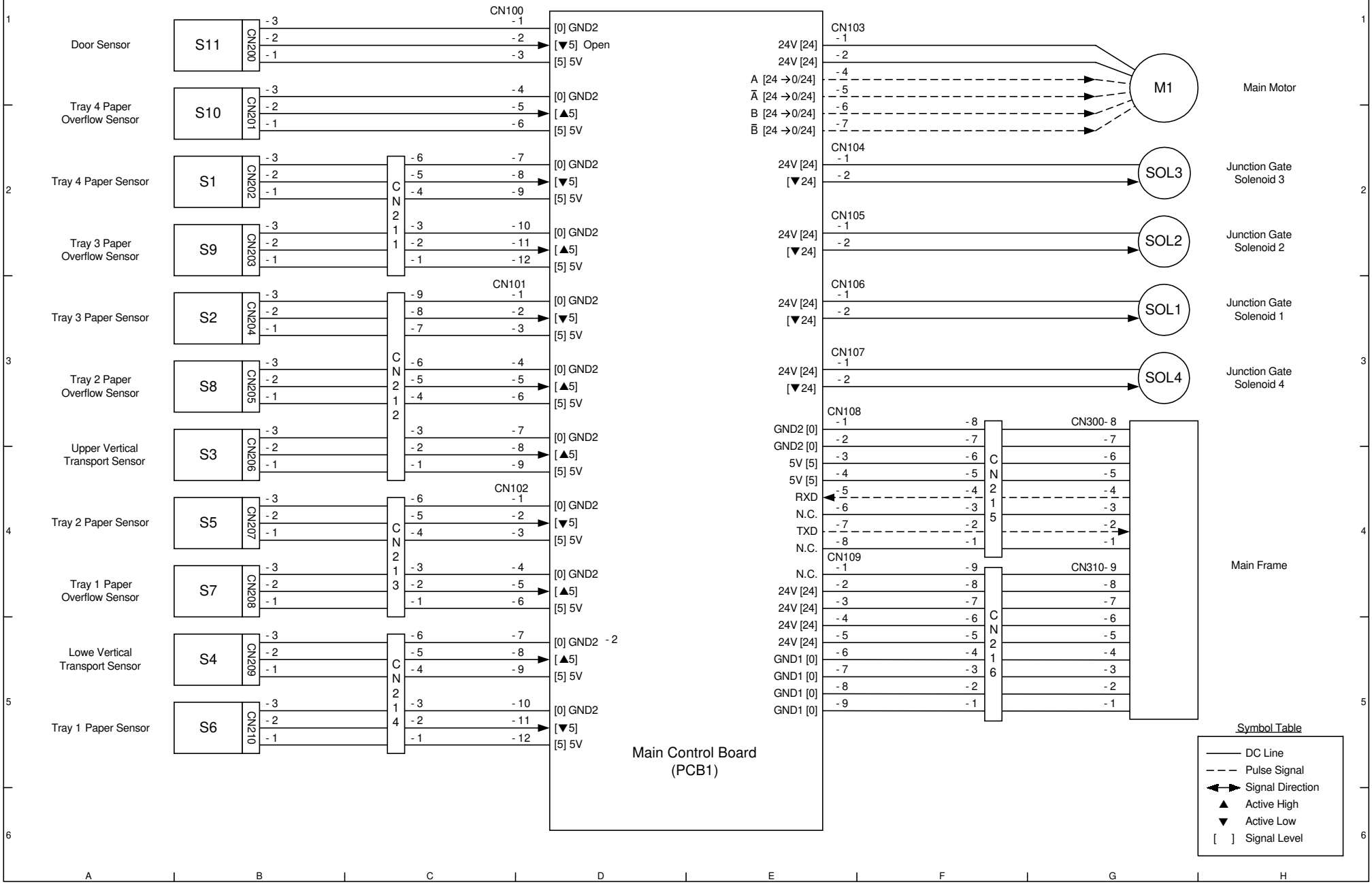
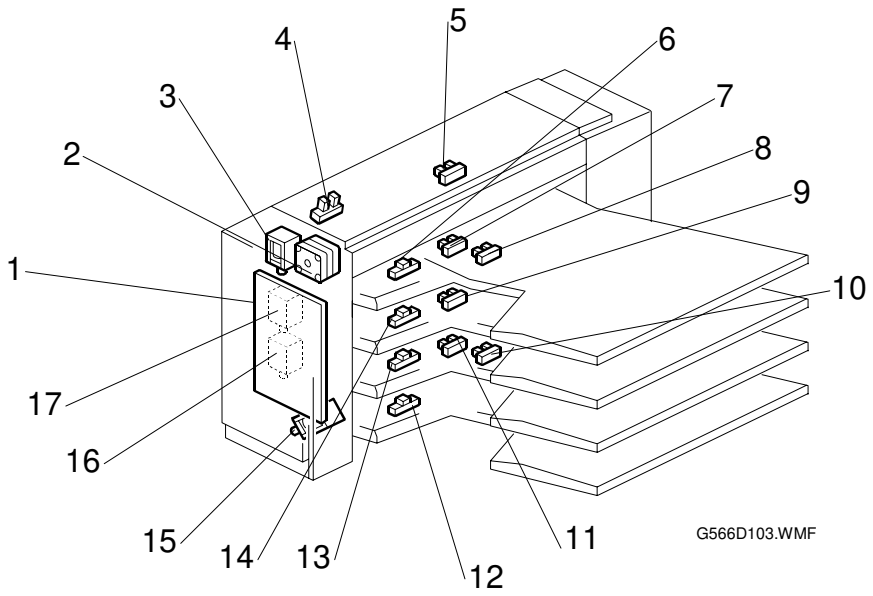
2.4 PAPER OVERFLOW DETECTION

Each tray has an overflow sensor. They monitor the trays so that the amount of paper on the tray does not exceed the tray capacity. If a printing job is done that exceeds the capacity of one or more of the trays, the main unit recognizes the overload, displays an error message and stops the printing job. However, if the excess paper is removed from the overloaded tray, the printing job will continue.

POINT TO POINT WIRING DIAGRAM (Four-bin Mailbox: G566)



ELECTRICAL COMPONENT LAYOUT (G566)



ELECTRICAL COMPONENT DESCRIPTION (G566)

Symbols	Description	Index No.	P-to-P
Motors			
M1	Main	2	G1
Sensors			
S1	Tray 4 Paper	6	B2
S2	Tray 3 Paper	14	B3
S3	Upper Vertical Transport	8	B4
S4	Lower Vertical Transport	10	B5
S5	Tray 2 Paper	13	B4
S6	Tray 1 Paper	12	B5
S7	Tray 1 Paper Overflow	11	B4
S8	Tray 2 Paper Overflow	9	B3
S9	Tray 3 Paper Overflow	7	B2
S10	Tray 4 Paper Overflow	5	B2
S11	Door	4	B1
Solenoids			
SOL1	Junction Gate Solenoid 1	16	G3
SOL2	Junction Gate Solenoid 2	17	G2
SOL3	Junction Gate Solenoid 3	3	G2
SOL4	Junction Gate Solenoid 4	15	G3
PCBs			
PCB1	Main Control	1	E5