PAPER TRAY UNIT
(Machine Code: G392)

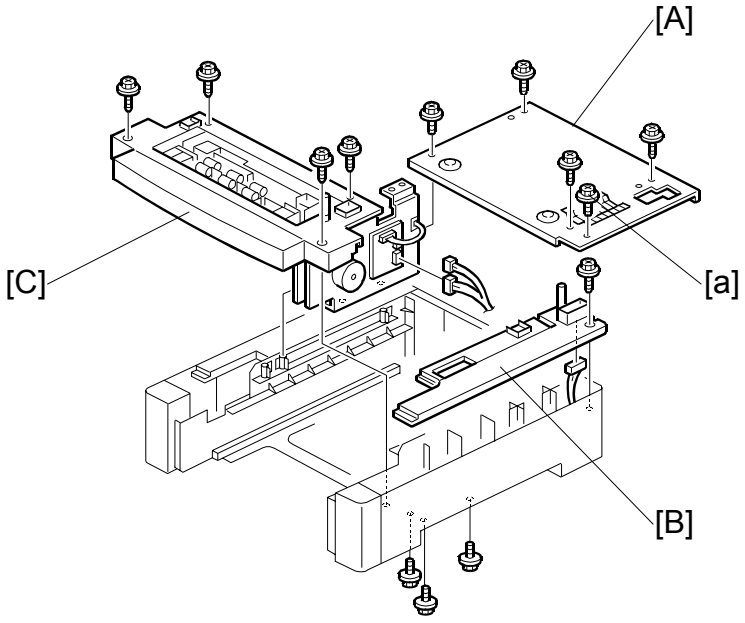
1. REPLACEMENT AND ADJUSTMENT

⚠CAUTION

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

NOTE: This manual uses several symbols. The meanings of those symbols are as follows:
: C ring : screw : connector/harness

1.1 PAPER FEED UNIT



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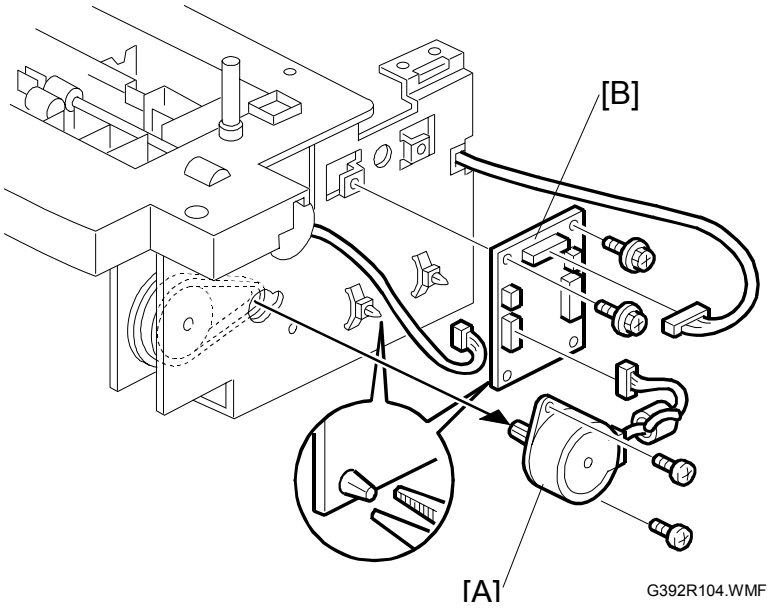
- Remove the paper tray unit from the main unit.
- Pull out the paper tray.

[A]: Upper plate (x 5)
NOTE: Screw [a] is blue.
[B]: Right upper cover (x 5, x 1)
[C]: Paper feed unit (x 7, x 2)

1.2 PAPER FEED MOTOR AND DRIVE BOARD



1.2.1 PAPER FEED MOTOR

- Remove the paper feed unit.

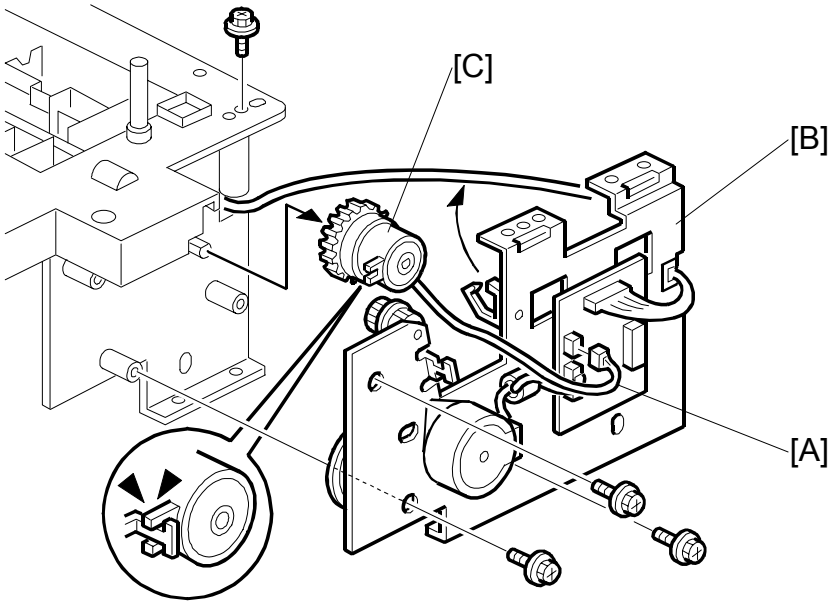
[A]: Paper feed motor (☞ x 2, ☞ x 1)

1.2.2 DRIVE BOARD

- Remove the paper feed unit.

[B]: Drive board (☞ x 2, ☞ x 3, Clip x 2)

1.3 PAPER FEED CLUTUCH



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- Remove the paper feed unit.

[A]: Disconnect the clutch harness.
[B]: Side plate (🔩 x 4)
[C]: Paper feed clutch
NOTE: Make sure to properly secure the clutch before completing installation.

1.4 SENSORS

1.4.1 PAPER END, PAPER NEAR END, AND PAPER FEED SENSORS

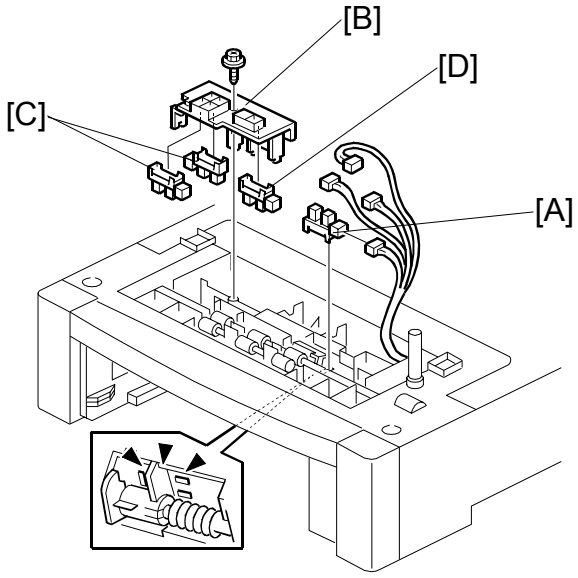
- Remove the paper tray unit from the main unit.
- Pull out the paper tray.

Paper feed sensor

[A]: Paper feed sensor

Paper end and paper near end sensors

[B]: Sensor holder (☞ x 1)
[C]: Paper near end sensors (☞ x 1 each)
[D]: Paper end sensor (☞ x 1)



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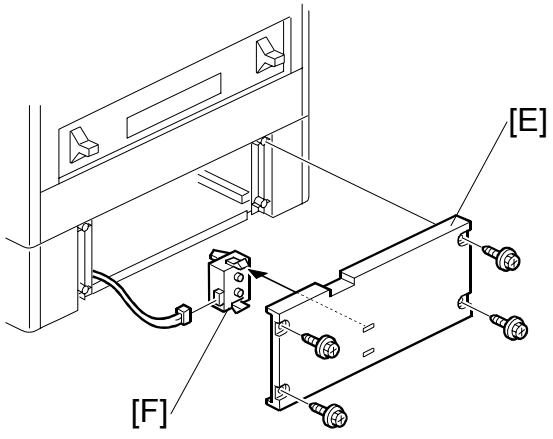
1.4.2 PAPER SIZE DETECTION SWITCH

NOTE: When you remove the rear cover, it is not necessary to remove the paper tray unit from the main unit.

[E]: Rear cover (☞ x 4)
[F]: Paper size detection switch (☞ x 1)



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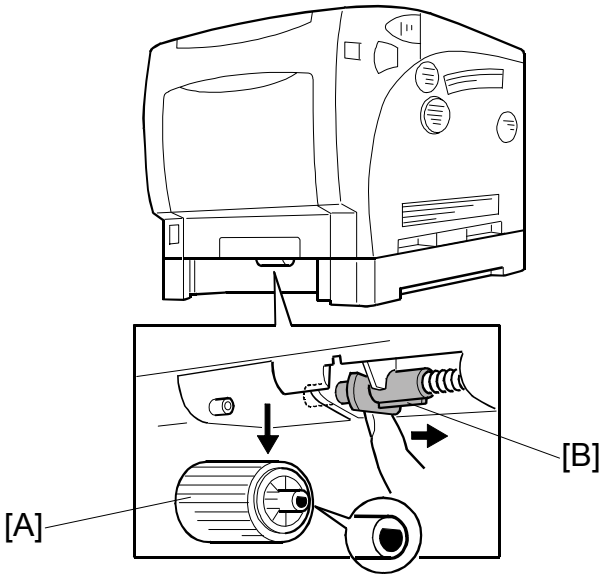
1.5 PAPER FEED ROLLER



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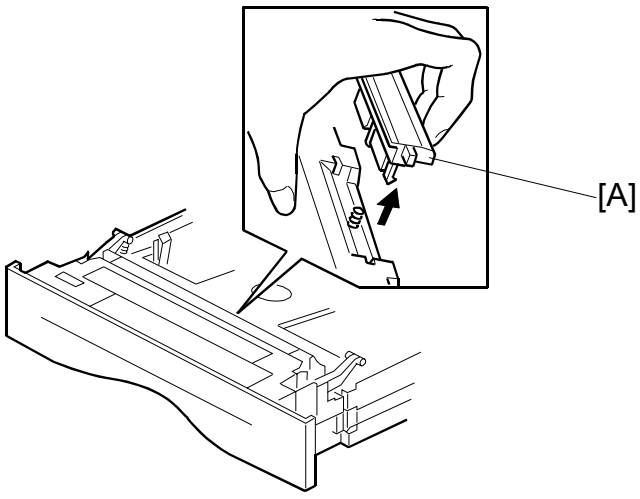
- Pull out the paper tray

[A]: Paper feed roller (move the lever [B] to the right)

1.6 FRICTION PAD



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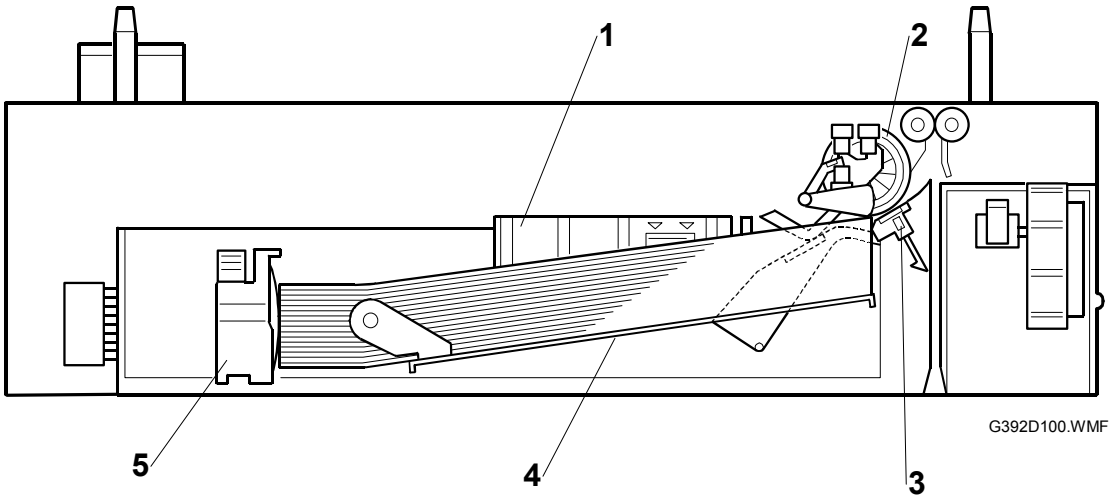
- Pull out the paper tray

[A]: Friction pad

2. DETAILED DESCRIPTIONS

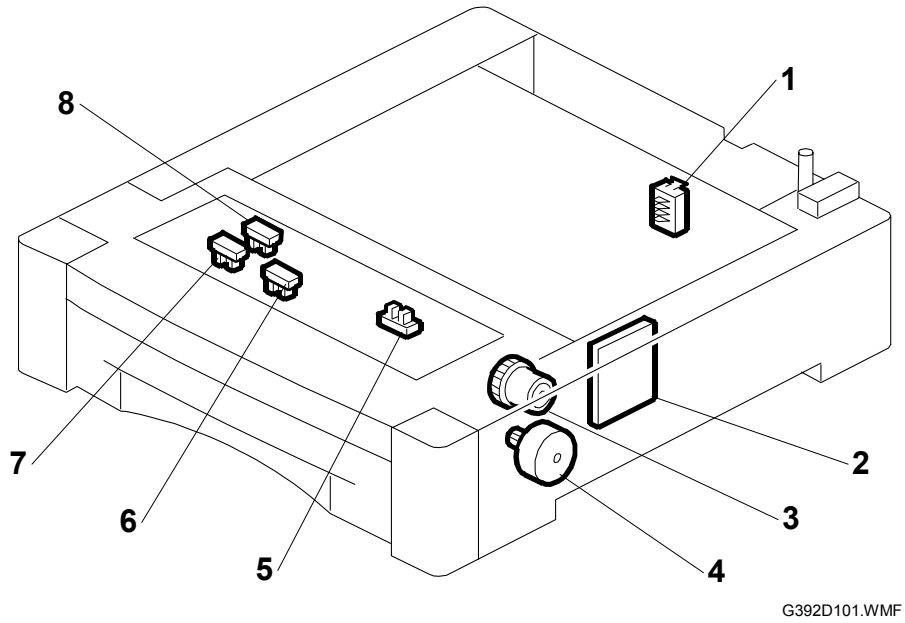
2.1 OVERALL MACHINE INFORMATION

2.1.1 MECHANICAL COMPONENT LAYOUT



1. Side fence
2. Paper pickup roller
3. Friction pad
4. Bottom plate
5. End fence

2.1.2 ELECTRICAL COMPONENT LAYOUT



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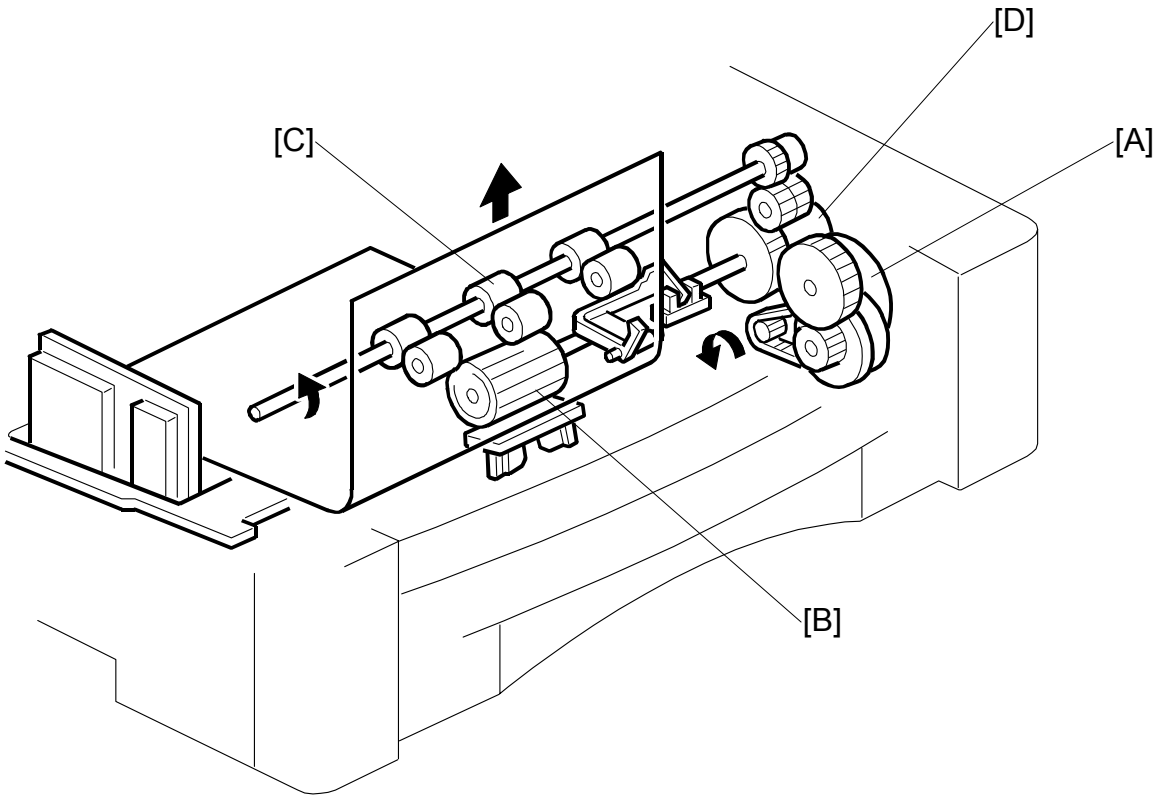
1. Paper size detection switch
2. Drive board
3. Paper feed clutch
4. Paper feed motor
5. Paper feed sensor
6. Paper end sensor
7. Paper near end sensor 1
8. Paper near end sensor 2

2.2 DETAILED DESRIPTIONS

2.2.1 PAPER FEED AND SEPARATION



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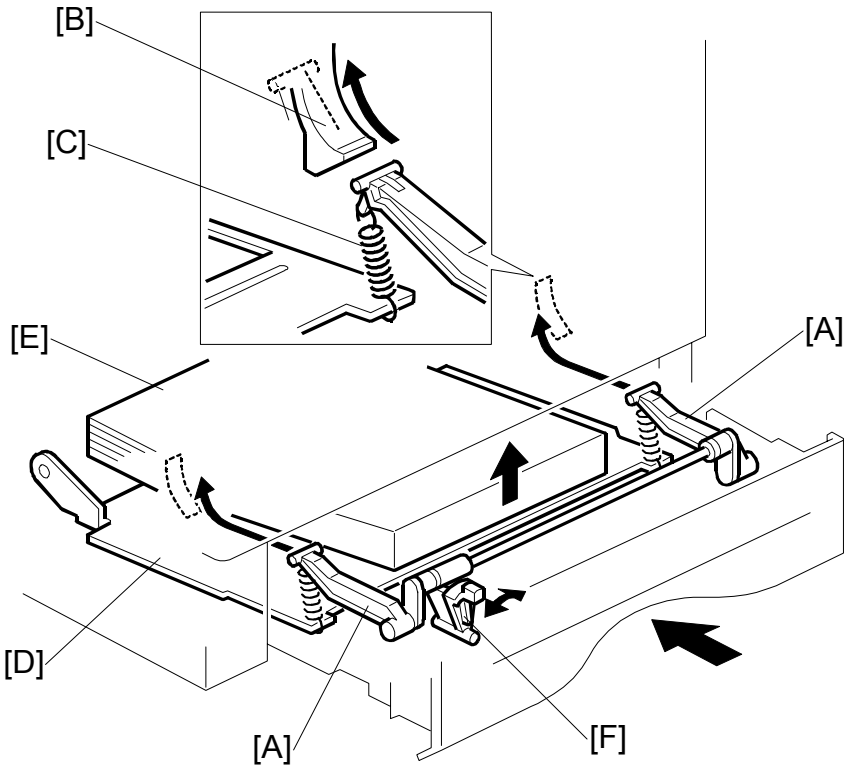
- The paper tray holds 550 sheets of paper.
- The paper feed unit uses a friction pad system.
- The paper feed motor [A] drives the paper feed roller [B] and paper transfer rollers [C].
- The paper feed clutch [D] transfers drive from the motor to the paper feed roller.

2.2.2 PAPER LIFT



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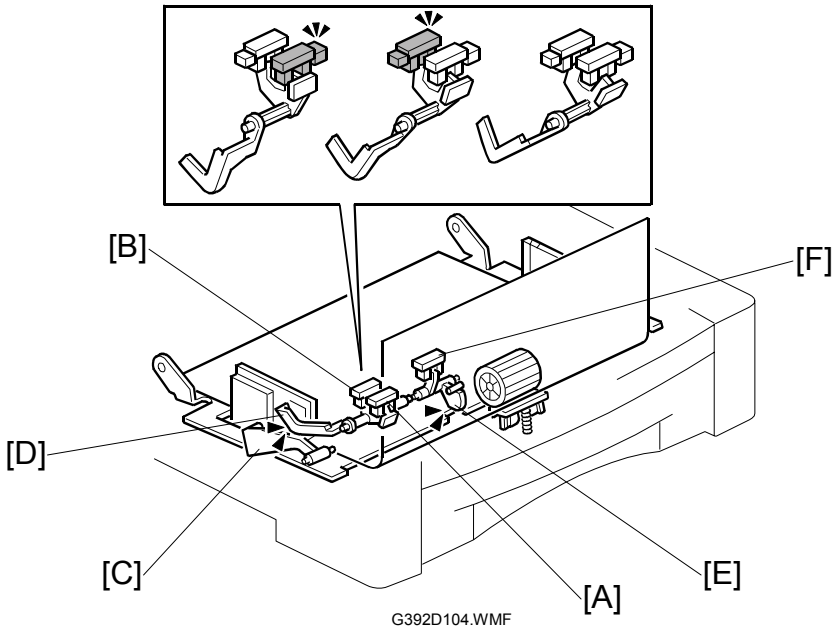
- The tray arm [A] moves up on the guide slopes [B] of the machine when the tray is set in the machine.
- The springs [C] lift the bottom plate [D] and the paper stack [E] on the plate.
- The stack of paper touches the paper feed roller, and this keeps the top sheet of the stack at the correct paper height.
- The paper pressure lever [F] adjusts the bottom plate pressure. When you load thin paper (52 ~ 74 g/m^2, 14 ~ 19 lb), slide this lever to the right. The default position is at the left.

2.2.3 PAPER NEAR-END/END DETECTION



Paper near end detection

- Two paper near-end sensors [A], [B] detect the quantity of remaining paper in the tray.
- When the quantity of paper decreases, the bottom plate pressure lever [C] moves up and the actuator [D] turns.
- The machine detects the quantity of remaining paper with the outputs from the paper near-end sensor, as shown in this table.

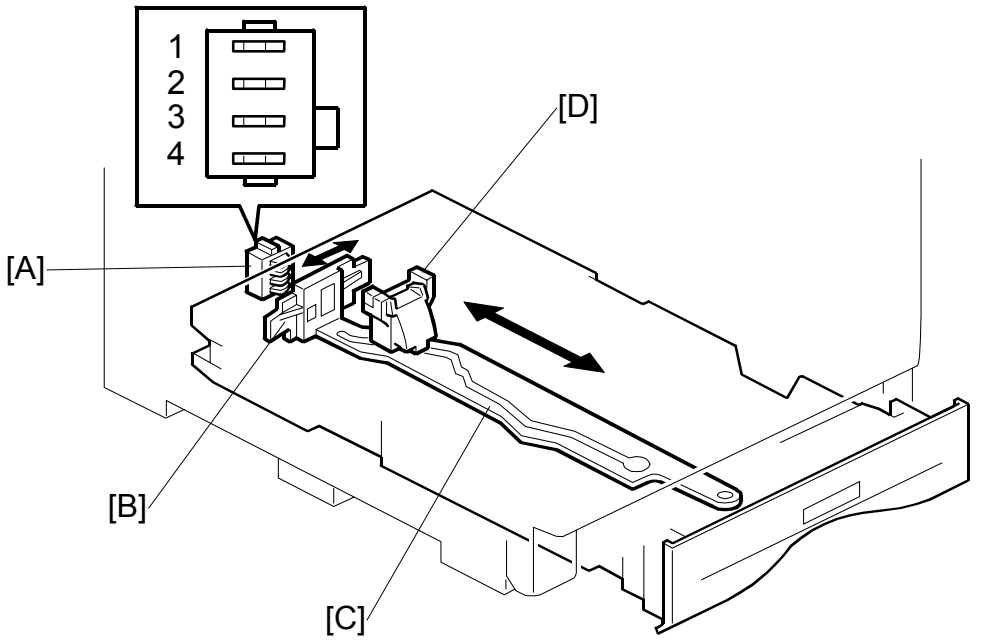
Remaining paper	Near end sensor 1 [A]	Near end sensor 2 [B]
Full ~ 450	ON	OFF
450 ~ 250	ON	ON
250 ~ 50	OFF	ON
50 ~ 0	OFF	OFF

OFF: No actuator

Paper end detection

- When the paper tray is empty, the paper end feeler [E] falls into the hole in the bottom plate and the paper end sensor [F] turns on.

2.2.4 PAPER SIZE DETECTION



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- The paper size detection switch [A] is at the rear of the machine.
- The machine disables paper feed from a tray if the paper size cannot be detected (if the paper size actuator is broken or no tray is installed)
- The actuator [B] is on the side plate [C] that engages with the end fence [D].
- When the end fence moves, the actuator moves from side to side.
- The machine detects the paper size with the outputs from the paper size detection switch, as shown in this table.

Paper Size	Switch Location			
	1	2	3	4
LG SEF	Push	Push	-	-
A4 SEF	-	Push	Push	-
LT SEF	Push	Push	Push	Push
US. EXE SEF	Push	-	-	-
B5 SEF	Push	-	-	-
A5 SEF/ HLT SEF	-	Push	Push	Push
A5 LEF/ HLT LEF	-	-	Push	Push