LCIT RT5000
(Machine Code: B832)

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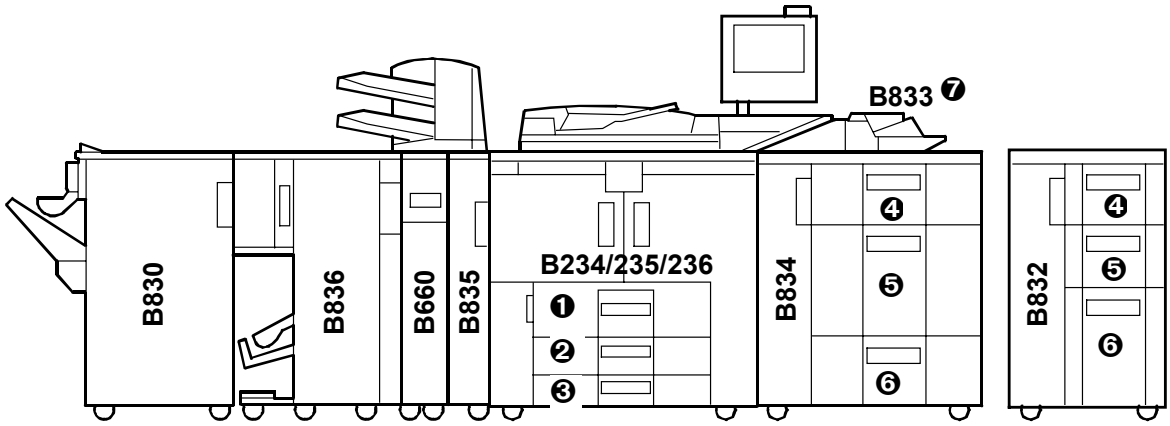
Tray Naming



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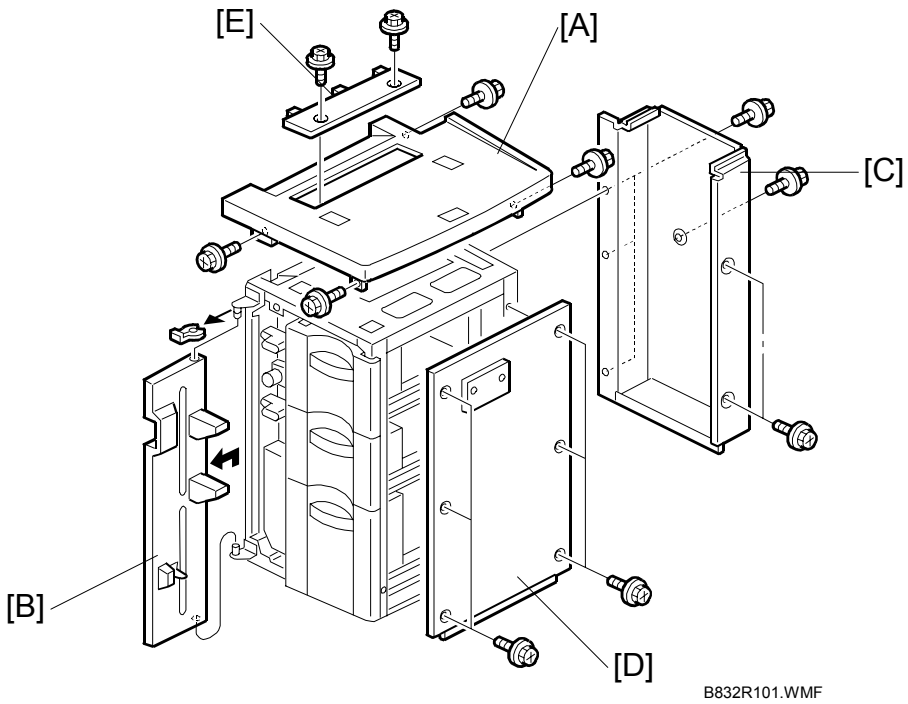
❶	Copier (B234/B235/B236)	1st Tray
❷		2nd Tray
❸		3rd Tray
❹	LCT (B832 or B834)	4th Tray
❺		5th Tray
❻		6th Tray
❼	Bypass Tray (B833)	7th Tray

1. REPLACEMENT AND ADJUSTMENT

1.1 FRONT DOOR AND COVERS



[A] Top cover (☞ x 4).

[B] Front door (⌓ x 1).

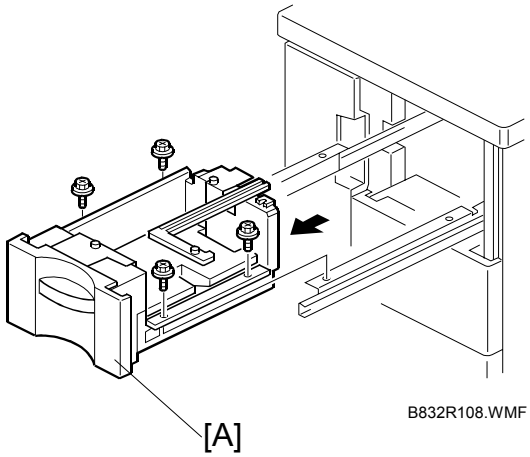
NOTE: While lifting the top cover, remove the snap ring and front door.

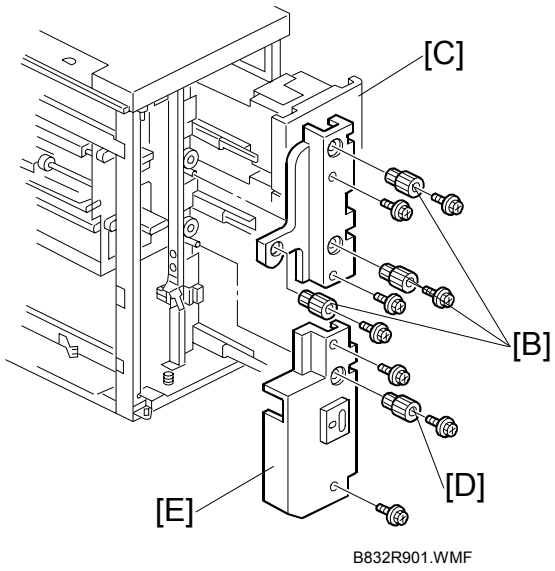
[C] Rear cover (☞ x 6).

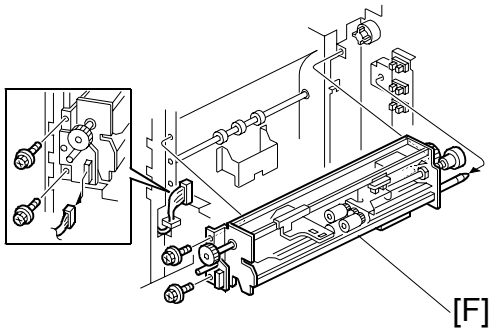
[D] Right cover (☞ x 6).

[E] Paper slot cover (☞ x 2).

1.2 INNER COVER, PAPER FEED UNIT





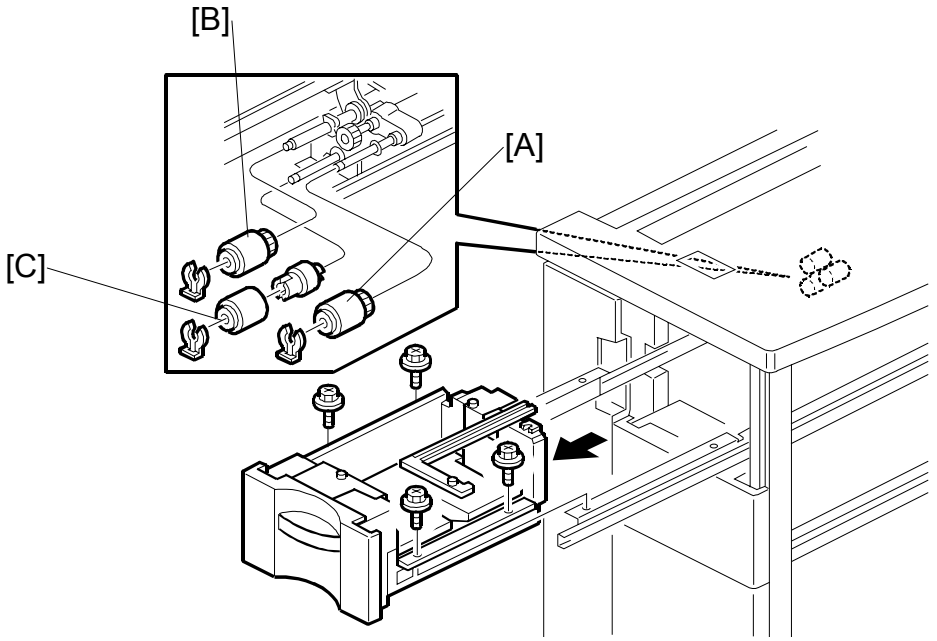


- Open the front door.
- Remove right cover (☛1.1)

Remove:

[A] Pull out tray and remove it (☞x 4)
[B] Knobs (x3) (☞x 1 each)
[C] Upper inner cover (☞ x2)
[D] Knob (☞ x1)
[E] Lower inner cover (☞ x1)
[F] Paper feed unit (✋ x1, ☞ x2)

1.3 PAPER FEED ROLLER



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Remove:

- Remove the right cover (☛1.1)
- Remove the paper trays. (☛1.2)

[A] Pick-up roller (x 1).

[B] Feed roller (x 1).

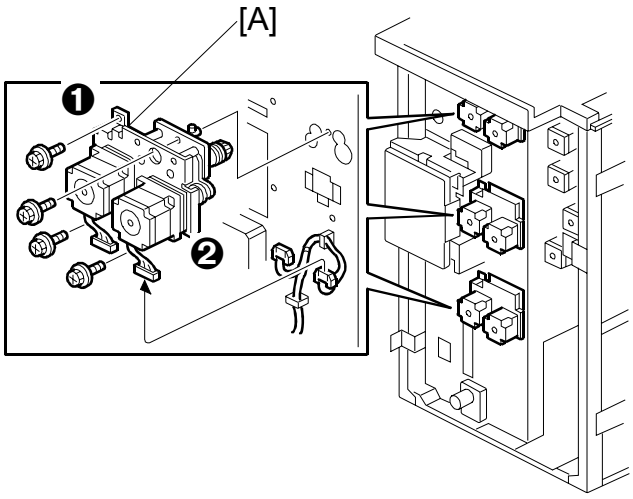
[C] Separation roller (x 1).

NOTE: 1) The LCT pick-up and separation rollers are the same as pick-up and separation rollers of the main machine. These rollers are interchangeable.
2) The feed rollers of the LCT and main machine are different because they are designed to rotate in opposite directions. The feed rollers of the LCT and main machine are not interchangeable.
3) Never touch the surface of the rollers with bare hands.

- Clear the PM counters for the new rollers (see Section "2. Preventive Maintenance).

1.4 LCT MOTORS

1.4.1 PAPER FEED, GRIP MOTORS



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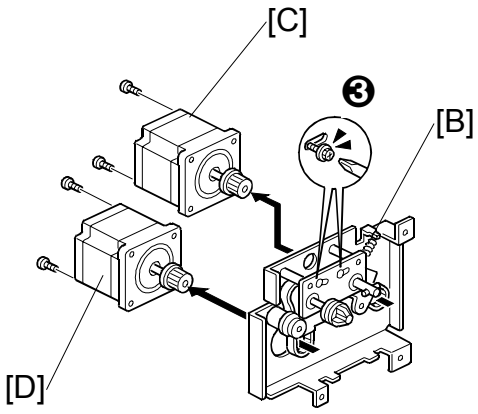

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Each paper feed unit has a paper feed motor ❶ and a grip motor ❷. The removal procedure is the same for each feed tray.

Remove:

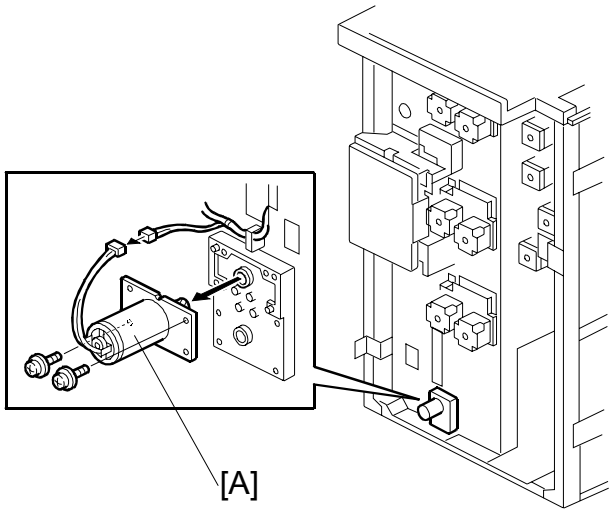
- Rear cover (☛1.1)

[A] Motor unit (🔩 x4, 🖐 x2)
[B] Springs (x2). First, loosen the screws (x2) ❸
[C] Paper feed motor (🔩 x2)
[D] Grip motor (🔩 x2)

Reinstallation

- Attach the tension spring, then tighten the screws ❸ to tighten the belts.

1.4.2 6TH LIFT MOTOR



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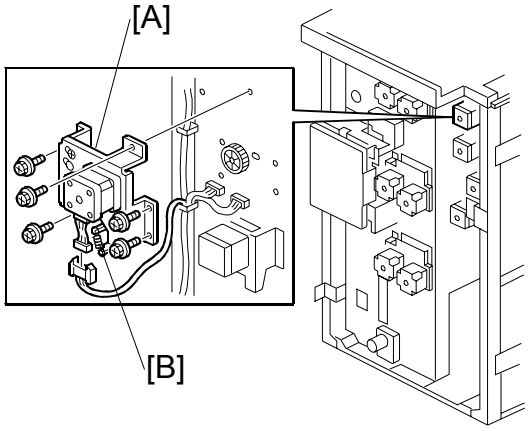
Remove:

- Rear cover (☛1.1)

[A] 6th lift motor (🔩 x2, ✋ x1)

1.4.3 4TH TRANSPORT MOTOR



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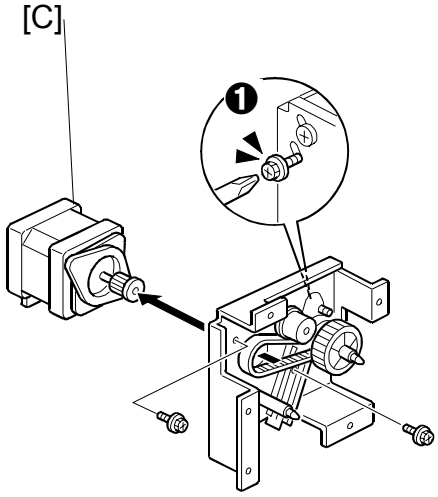

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Remove:

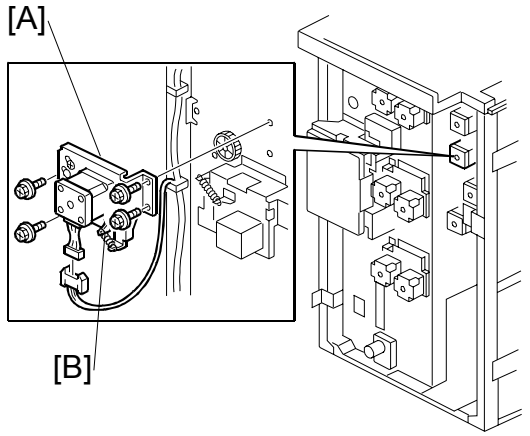
- Rear cover. (☛1.1)

[A] 4th Transport motor unit (🔩 x 5, 🖐 x 1).
[B] Spring (x1). First, loosen screw ❶ (🔩 x 1).
[C] 4th transport motor (🔩 x2, Timing belt x1)

Reinstallation

- Be sure that the tension spring is connected, then tighten the screw ❶.

1.4.4 5TH TRANSPORT MOTOR



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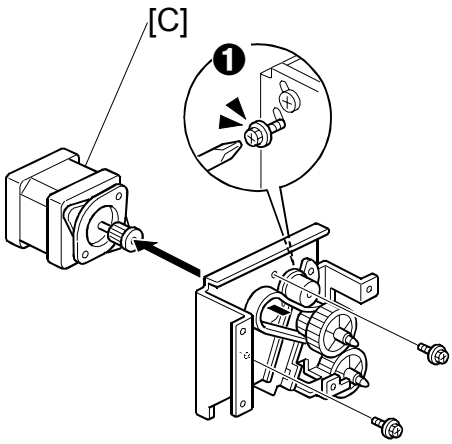

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Remove:

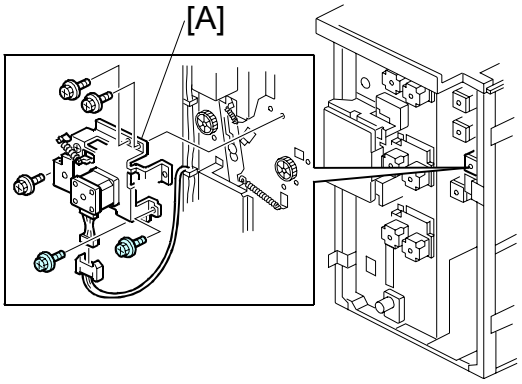
- Rear cover. (☛1.1)

[A] Motor unit (🔩 x4, ✋ x 1).
[B] Spring (x1). First, loosen screw ❶ (🔩 x 1).
[C] 5th Transport motor (🔩 x2, Timing belt x1)

Reinstallation

- Be sure that the tension spring is connected, then tighten the screw ❶.

1.4.5 LCT EXIT MOTOR



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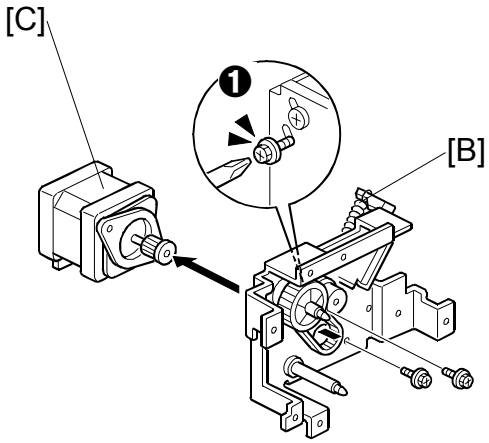

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Remove:

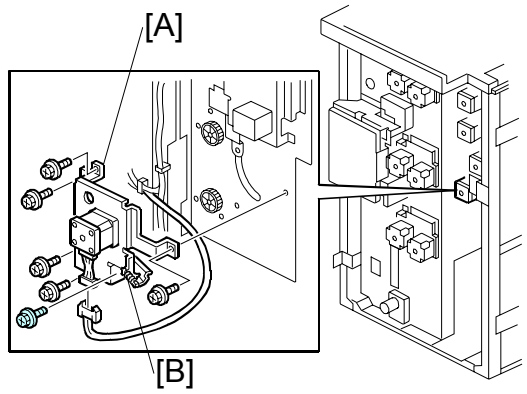
- Remove the rear cover. (☛1.1)

[A] Motor unit (🔩 x6, 🖐 x 1).
[B] Spring (x1). First, loosen screw ❶ (🔩 x 1).
[C] LCT exit motor (🔩 x2, Timing belt x1)

Reinstallation

- Be sure that the tension spring is connected, then tighten the screw ❶.

1.4.6 6TH TRANSPORT MOTOR



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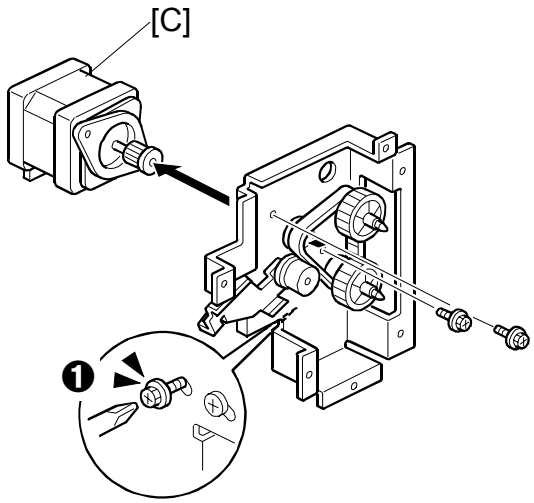

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Remove:

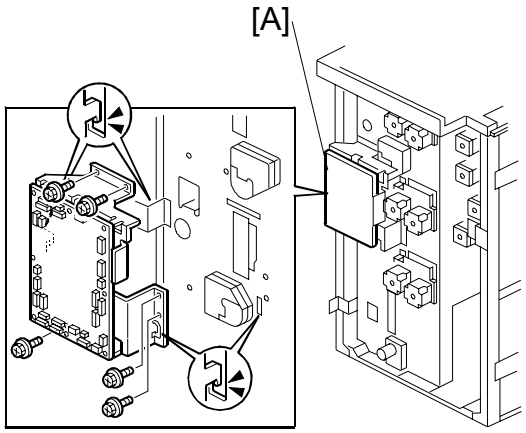
- Rear cover. (☛1.1)

[A] Motor unit (🔩 x6, 🖐 x 1).
[B] Spring (x1). First, loosen screw ❶ (🔩 x 1).
[C] LCT exit motor (🔩 x2, Timing belt x1)

Reinstallation

- Be sure that the tension spring is connected, then tighten the screw ❶.

1.4.7 4TH, 5TH LIFT MOTORS



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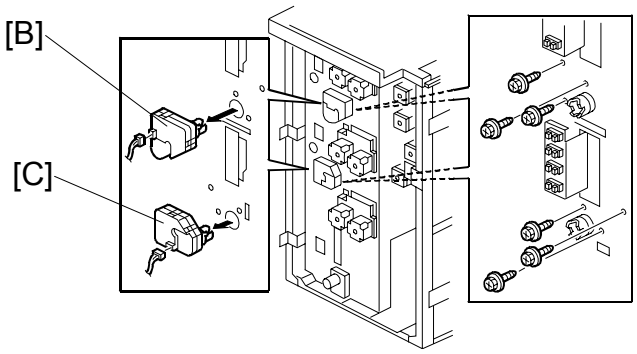

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Remove:

- Rear cover. (☛1.1)

[A] Main control board bracket (🔩 x5, 🖐 x All)
[B] 4th lift motor (🔩 x3, 🖐 x 1)
[C] 5th lift motor (🔩 x3, 🖐 x 1)

1.5 IMAGE POSITION SENSOR BOARD, EXIT SENSOR

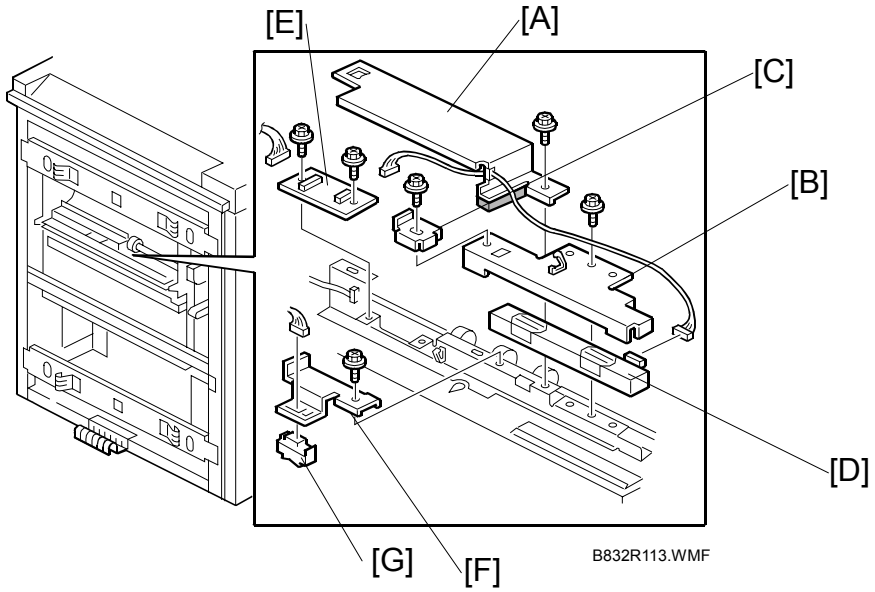


Image Position Sensor

Disconnect the LCT from the copier.

[A] Harness cover (x1, x1)
[B] Image position sensor unit
(x1, x1, x1)
[C] Stopper (x1)
[D] Image position sensor

- After replacing the image position sensor, do the procedure for image position sensor adjustment. (☛1.9)

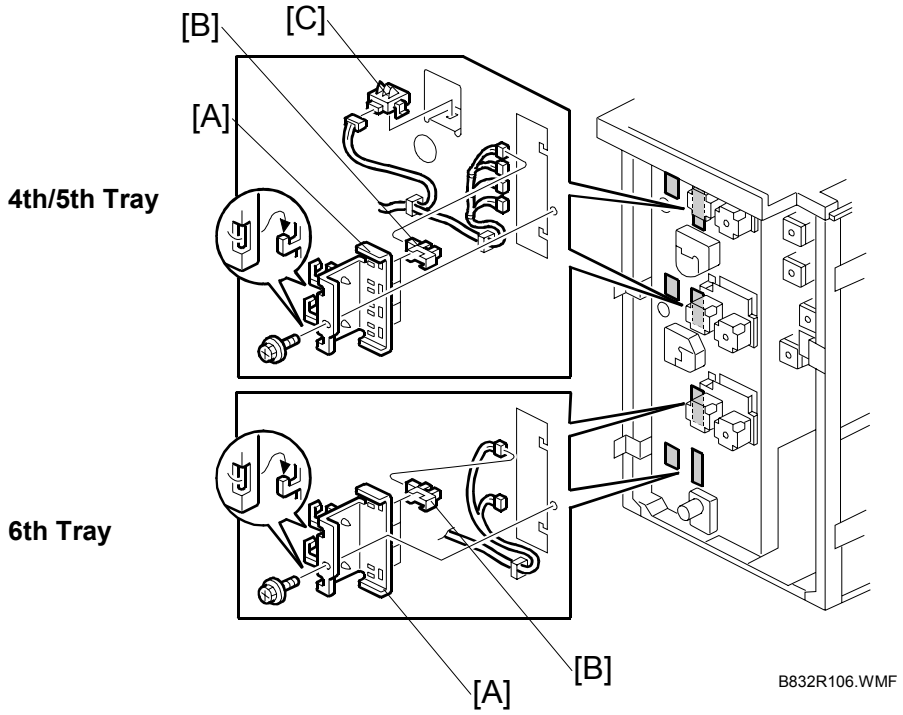
Image Position Sensor Board

[E] Image position sensor board
(x2, x1, x2)

Exit Sensor

[F] Exit sensor unit (x1, x1, x1)
[G] Exit sensor

1.6 PAPER HEIGHT SENSORS, PAPER SIZE SENSORS

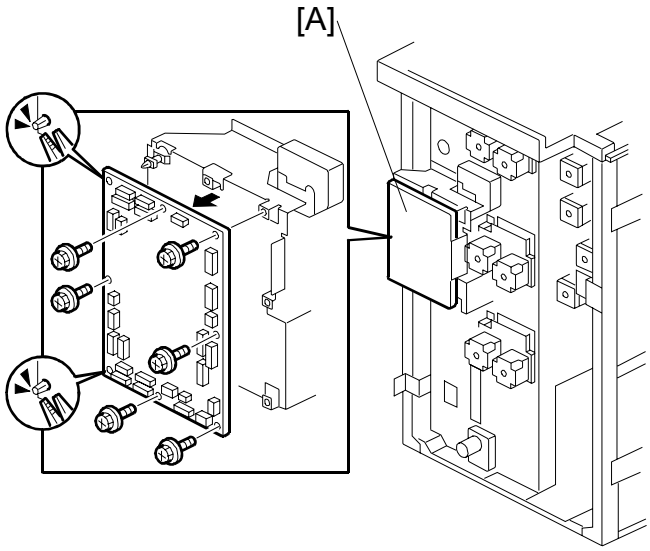


Remove:

- Rear cover. (☛1.1)
- Right cover. (☛1.1)

[A] Paper height sensor unit (x2, x 1, x 4).
[B] Paper height sensors (Hooks x 4 each)
[C] Paper size sensors (x 1 each)

1.7 MAIN CONTROL BOARD



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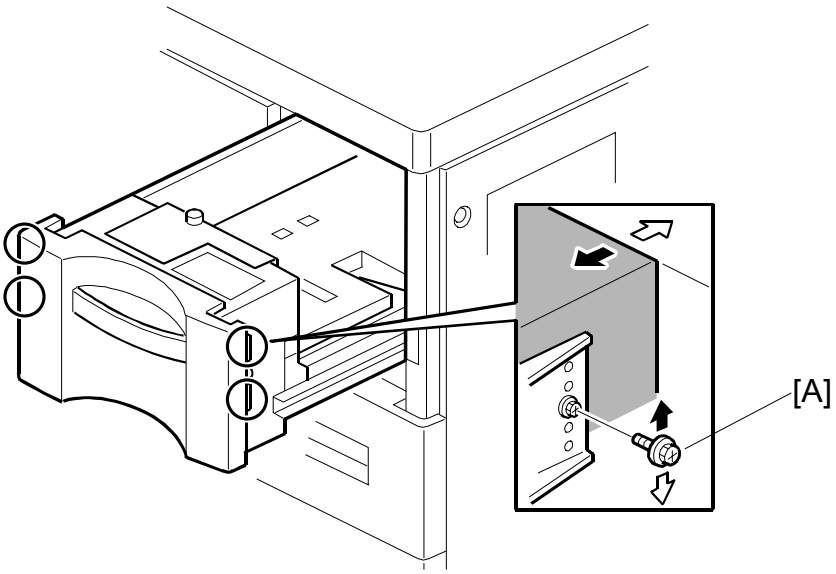
Remove:

- Rear cover. (☛1.1)

[A] Main control board (🔩 x6, Standoffs x2, ✋ x All)

1.8 SIDE REGISTRATION ADJUSTMENT



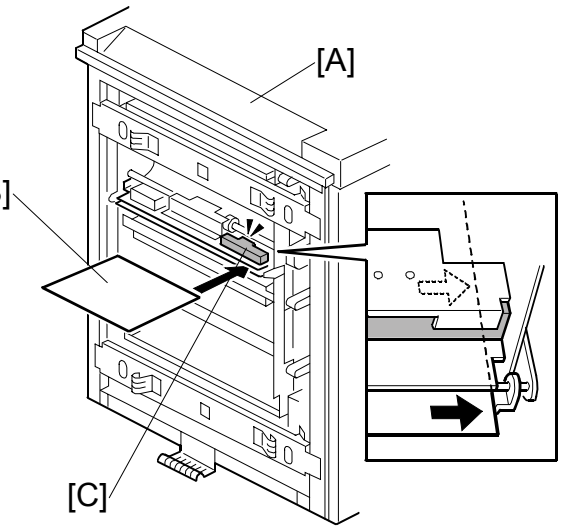
B832R112.WMF

Normally the side registration of the image can be adjusted with SP1002 004~006 (Side-to-Side Registration – Tray 4, 5, 6). When the punch hole positions are not aligned from a particular feed station, adjust the side registration by changing the tray cover position for the tray, as described below. Then adjust the side registration of the image with the SP1002.

1. Pull out the tray.
2. Change the screw positions [A] at both the right and left sides as shown.
   NOTE: Adjustment range: 0 ± 2.0 mm adjustment step: 1.0 mm/step

1.9 ADJUSTING IMAGE POSITION SENSOR STRENGTH AND SIDE-TO-SIDE REGISTRATION

1. Turn off the main power switch.
2. Disconnect the LCT from the mainframe.
3. With the LCT [A] separated from the mainframe, reconnect the LCT cable to the mainframe.
4. Turn on the main power switch.
5. Insert one sheet of plain white paper [B] in the paper path.
6. Make sure that the paper covers the entire area below the image position sensor (CIS) [C].
7. Enter the SP mode and do **SP1910 002** (CIS Image Position Adjustment: LED Strength - LCT). This calibrates the amount of light to be emitted from the CIS.



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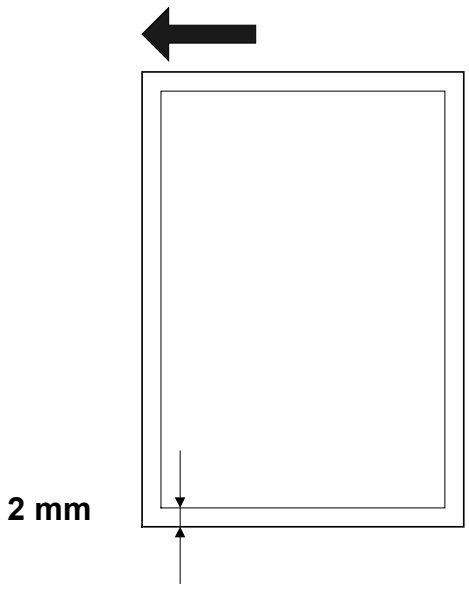
8. Do S**P1909 002** (CIS Image Position Adjustment: PWM After Adjustment - LCT).
   - If the displayed value is between 20 (14h) and 40 (28h), the CIS is calibrated successfully. (The display is in hexadecimal code.)
   - If the value is outside this range, do **SP 1910 002** and **1909 002** again. If the value does not come between 20 and 40, the CIS may be defective.
9. Exit the SP mode.
10. Reinstall the LCT to the side of the copier.
11. Push [User Tools]> [Adjust Settings for Operators].
12. Do **SP1911** for Trays 4, 5, 6, 7 and set the value for each tray to "0" (OFF).
13. Exit from SP 1911 and return to the SP mode menu.

14. Adjust the image positions in the main scan direction.
    - Do **SP2902 003**, select Pattern **27**, then print the trimming pattern.
    - Do **SP1002** and adjust the image position in the main scan direction for Trays 4, 5, 6, and 7.
    - Print the trimming pattern from each tray of the LCT and from the bypass tray (if installed).
    - To do this, touch "Copy Window" in the SP display, select a tray, then push [Start].
    - The distance of the test pattern line from the paper edge for each tray must be 2 mm. If it is not 2 mm, adjust with **SP1002 004** to **007**, depending on which tray is not within the specified 2 mm.
15. Do **SP1912 002** (CIS Image Position Adjustment: Normal Paper). This sets the CIS for operation with standard copy paper.
16. Exit the SP mode.
17. Push [User Tools]> [Adjust Settings for Operators].
18. Once again, do **SP1911** (CIS Image Position Adjustment: Feed Setting) and reset the values for Trays 4, 5, 6, and 7 to "1" (ON).



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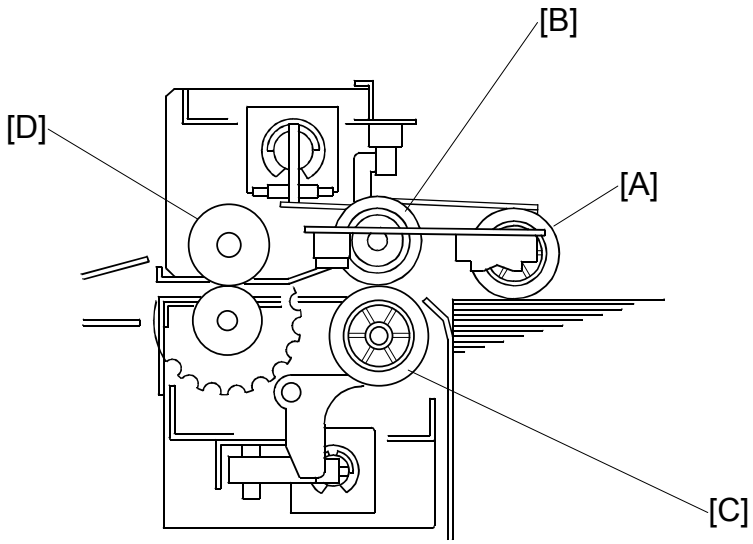
2. DETAILED DESCRIPTIONS

2.1 PAPER FEED

2.1.1 PAPER FEED ROLLERS



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This LCT has three paper tray feed stations:

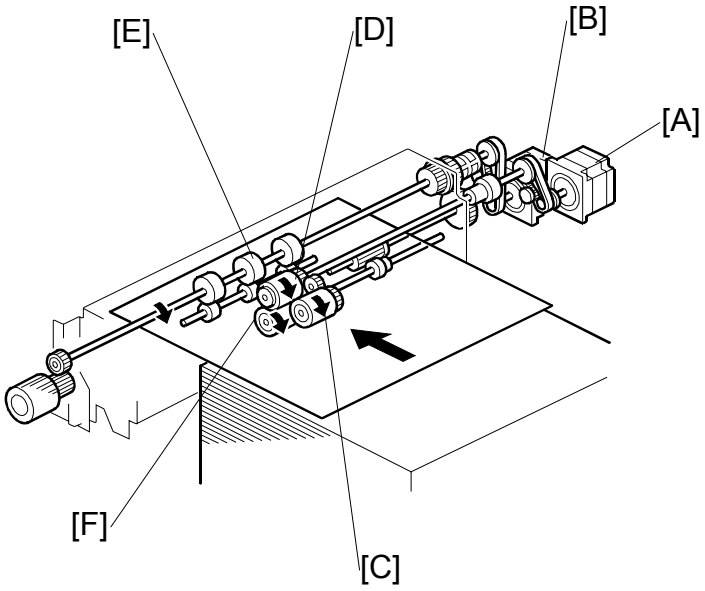
The 4th and 5th tray each hold 1,000 sheets of paper. The 6th tray holds 2,550 sheets of paper. Total: 4,550 sheets

Each tray contains four rollers:

[A] Pick-up roller
[B] Paper feed roller
[C] Separation roller
[D] Grip roller

NOTE: The pick-up roller, paper feed roller, and separation roller are a standard FRR paper feed system.

2.1.2 PAPER FEED MOTORS



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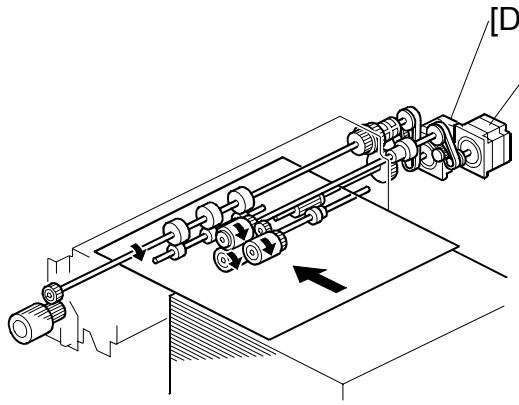
Two stepper motors control the paper feed drive:

[A] Paper feed motor
[B] Grip motor

The paper feed motor drives the pick-up roller [C] and the paper feed roller [D].

The grip motor drives the grip roller [E] that feeds the paper out of the tray, and the separation roller [F].

2.1.3 PICK-UP AND FEED



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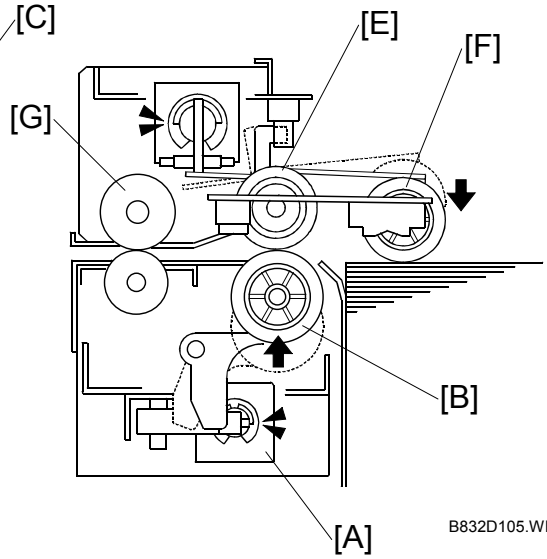

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When a paper feed station is not selected:

- Separation roller solenoid [A] is de-activated
- Separation roller [B] turns freely.

When the paper feed station is selected for a job:

- Paper feed motor [C] and grip motor [D] turn on.

When the feed motor [C] turns on, it drives the feed roller [E]. It also drives the pick-up roller [F] because the pick-up roller is linked to the feed roller by an idle gear..

When the separation solenoid [A] turns on, the separation roller [B] contacts the paper feed roller [E] and turns with the feed roller, unless more than one sheet of paper is fed. The three trays of the LCT unit use the standard FRR mechanism.

When the paper feed motor turns on, the pick-up solenoid turns on and the pick-up roller [F] lowers until it contacts the top sheet of the paper stack and then sends it to the paper feed and separation rollers.

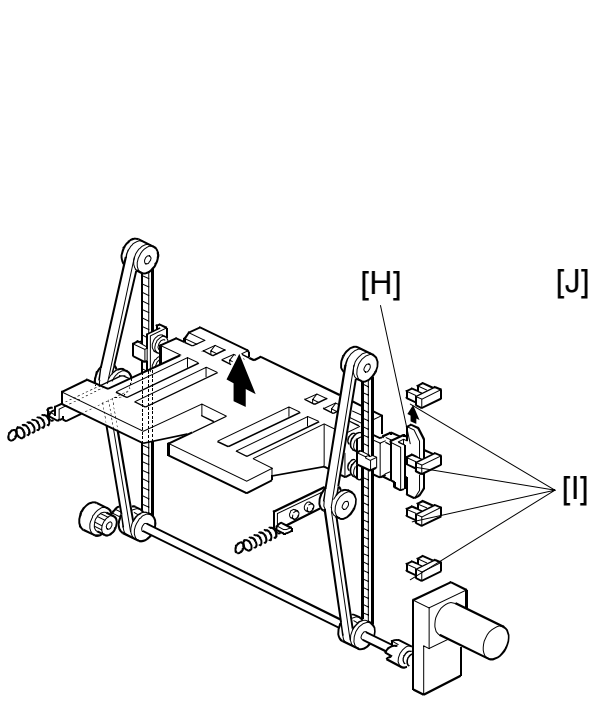
When the paper feed sensor detects the leading edge of the paper, the paper feed motor switches off, the pick-up roller lifts, and the grip rollers [G] feed the paper out of the tray.

2.2 PAPER LIFT

2.2.1 TRAY DETECTION

When a tray is set in the machine, the tray detection method used depends on the tray:

- The upper tray and middle tray are detected when any one of the paper size switch signals is low.
- The lower tray is detected when the switch 1 signal of the paper size switch is low.



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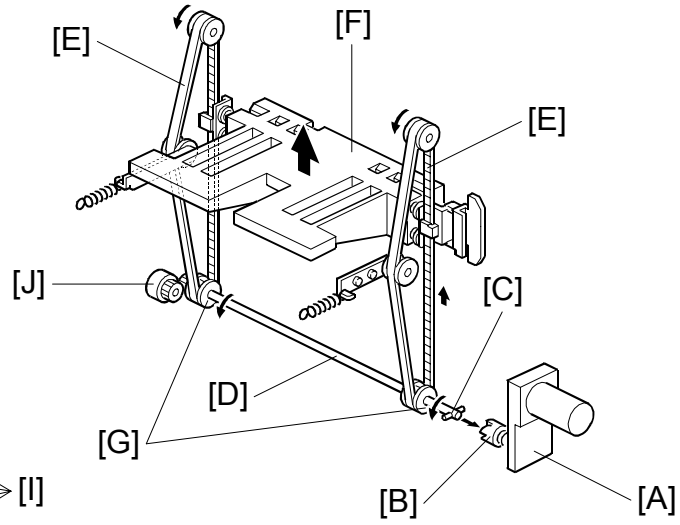

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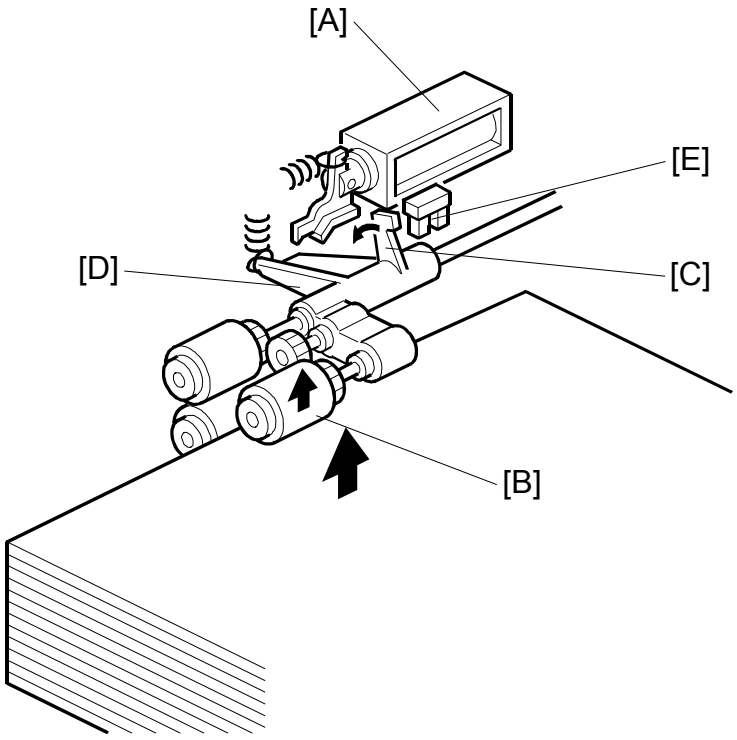
2.2.2 LIFT MECHANISM

When the machine detects that the paper tray is set in the machine, the tray lift motor [A] rotates and the coupling gear [B] on the tray lift motor engages the pin [C] of the lift drive shaft [D]. The tray drive belts [E] are connected to the tray bottom plate [F] and are driven by the tray lift motor via the lift drive shaft [D] and tray drive pulleys [G]. When the lift motor turns counterclockwise, the tray bottom plate [F] moves up. The tray goes up until the top of the paper stack pushes up the pick-up roller and the lift sensor in the feed unit is de-activated.

When the actuator [H] on the rear end of the bottom plate activates the paper height sensors [I], the remaining paper capacity is detected. (☛2.4)

When pulling out the tray, the coupling gear [B] separates from the pin [C], so that the tray bottom plate moves downward. In the bottom tray, the damper [J] lets the tray bottom plate drop slowly.

2.2.3 LIFT SENSOR



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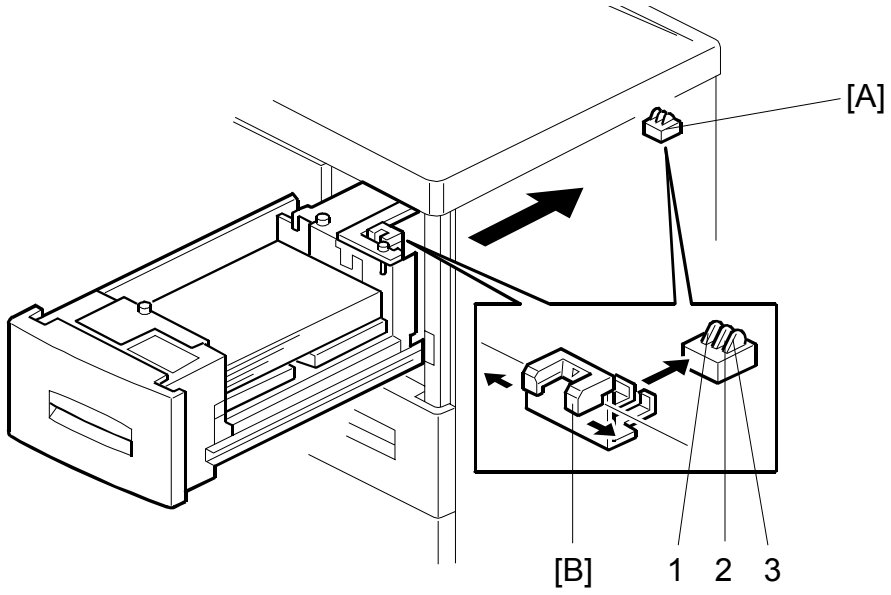
When the lift motor turns on, the pick-up solenoid [A] activates to lower the pick-up roller [B]. When the top sheet of paper reaches the proper paper feed level, the paper pushes up the pick-up roller and the actuator [C] on the pick-up roller supporter [D] de-activates the lift sensor [E] to stop the lift motor.

After several paper feeds, the paper level gradually lowers, then the lift sensor is activated and the lift motor turns on again until the lift sensor is de-activated again.

2.3 PAPER SIZE DETECTION



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	A4-LEF	B5-LEF	A5-LEF	A5-SEF	LT-LEF	HLT-LEF	HTL-SEF
SW1	0	1	0	0	0	1	1
SW2	1	0	1	0	0	0	1
SW3	1	1	0	1	0	0	0

1: HI 0: LOW

Top Tray (Tray 4) and Middle Tray (Tray 5)

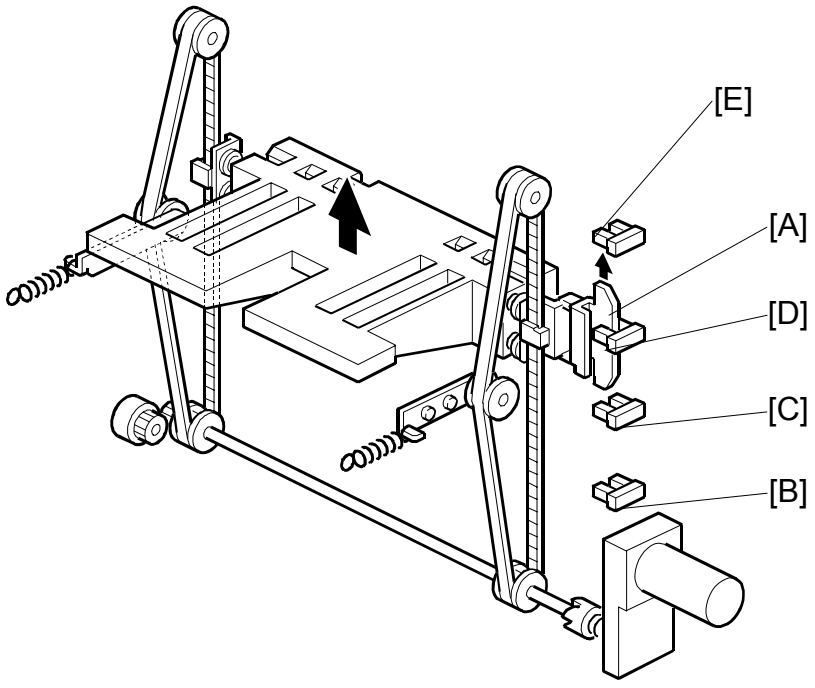
For the top and middle trays, the paper size switch [A] detects the paper size. The paper size switch contains three microswitches. The paper size switch is actuated by an actuator plate [B] at the rear of the tray. Each paper size has its own unique combination as shown in the table and the CPU determines the paper size by the combination.

Bottom Tray (Tray 6)

The bottom tray has the same switch as the top and middle trays. However, it is only used for detecting when the tray is pushed in.

For the bottom tray, the paper size must be selected in the SP5019-007:

2.4 REMAINING PAPER DETECTION



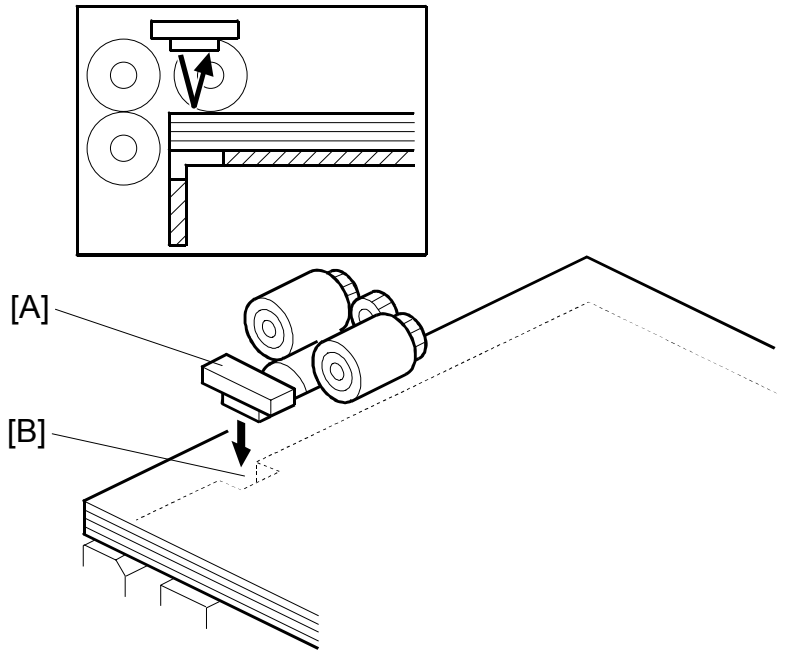
B832D932.WMF

The amount of paper remaining in the tray is detected by the three paper height photo-interrupter sensors on the left rail as the bottom plate rises. Five states, determined by the position of the actuator are possible.

1. With the actuator [A] below paper height sensor 1 [B], no sensor is actuated and the display indicates 100%.
2. When the actuator passes paper height sensor 1 [B] , the display indicates 75% of the paper supply remaining.
3. When the actuator passes paper height sensor 2 [C], the display indicates 50% of the paper supply remaining.
4. When the actuator passes paper height sensor 3 [D], the display indicates 25% of the paper supply remaining.
   NOTE: When the actuator enters the gap of the near end sensor [E], the machine signals near end.

Finally, when the last sheet feeds, the paper end sensor signals that the tray is empty. (☛2.5)

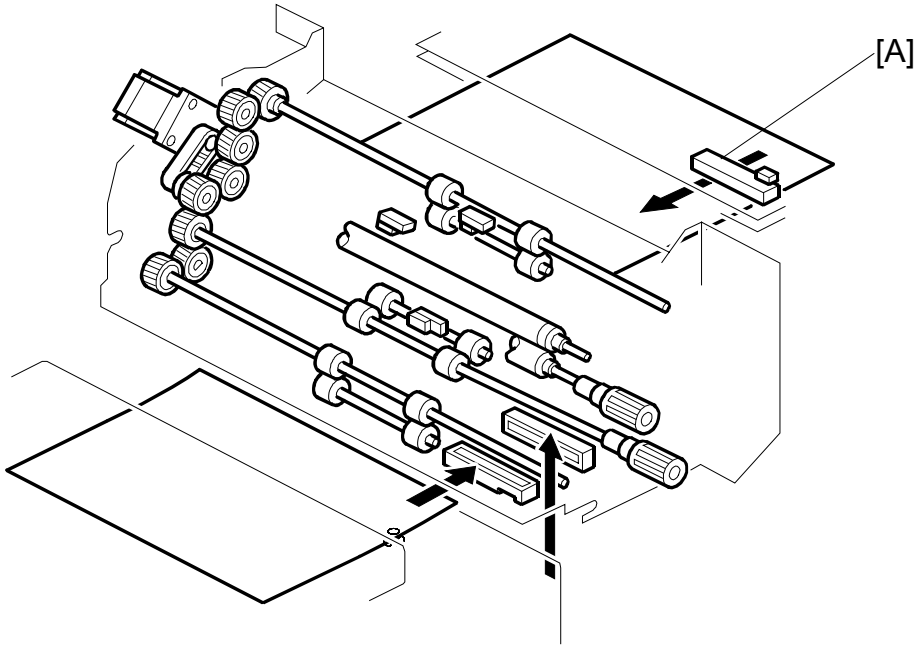
2.5 PAPER END DETECTION



B832D933.WMF

The paper end sensor [A] detects the top sheet of the paper in the tray by monitoring the reflected light. When the paper tray runs out of paper, the paper end sensor does not receive the reflected light due to the cutout [B]. Then, the tray lift motor rotates backwards 2 seconds to drop the tray bottom plate.

2.6 IMAGE POSITION CORRECTION



B832D934.WMF

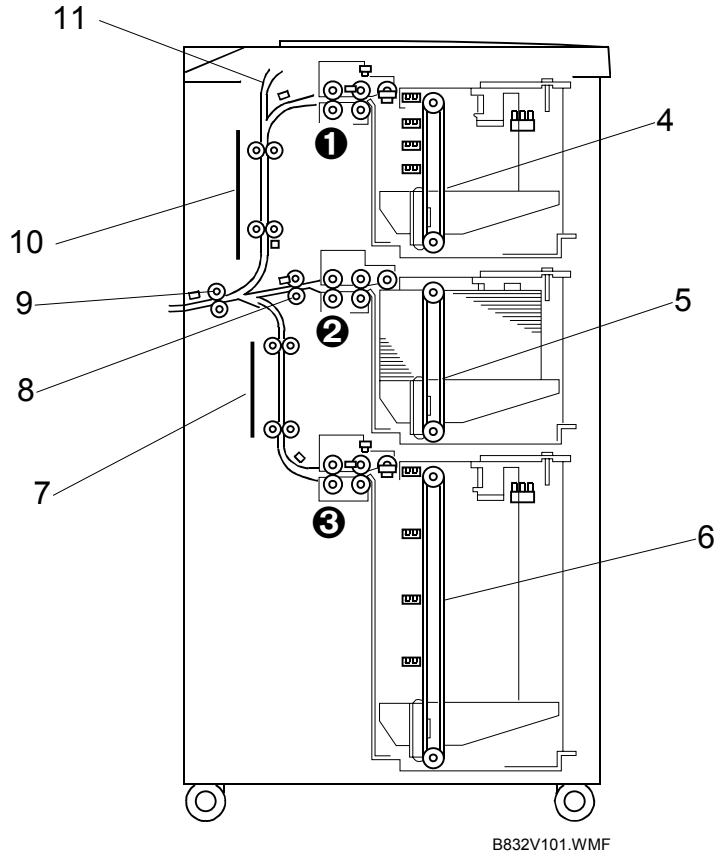
The image position sensor [A] is located in the LCT paper path above the paper path and in front of the LCT exit rollers. (This sensor is mounted on its own control board.)

The sensor is a CIS (Contact Image Sensor). It checks the side edges of each sheet as it passes, and feeds this information back to the machine.

If the side-to-side registration of the paper is slightly out of alignment, the machine will correct the image position when the laser writes the image on the surface of the drum. This function does not correct the position of the paper.

3. OVERALL MECHANICAL INFORMATION

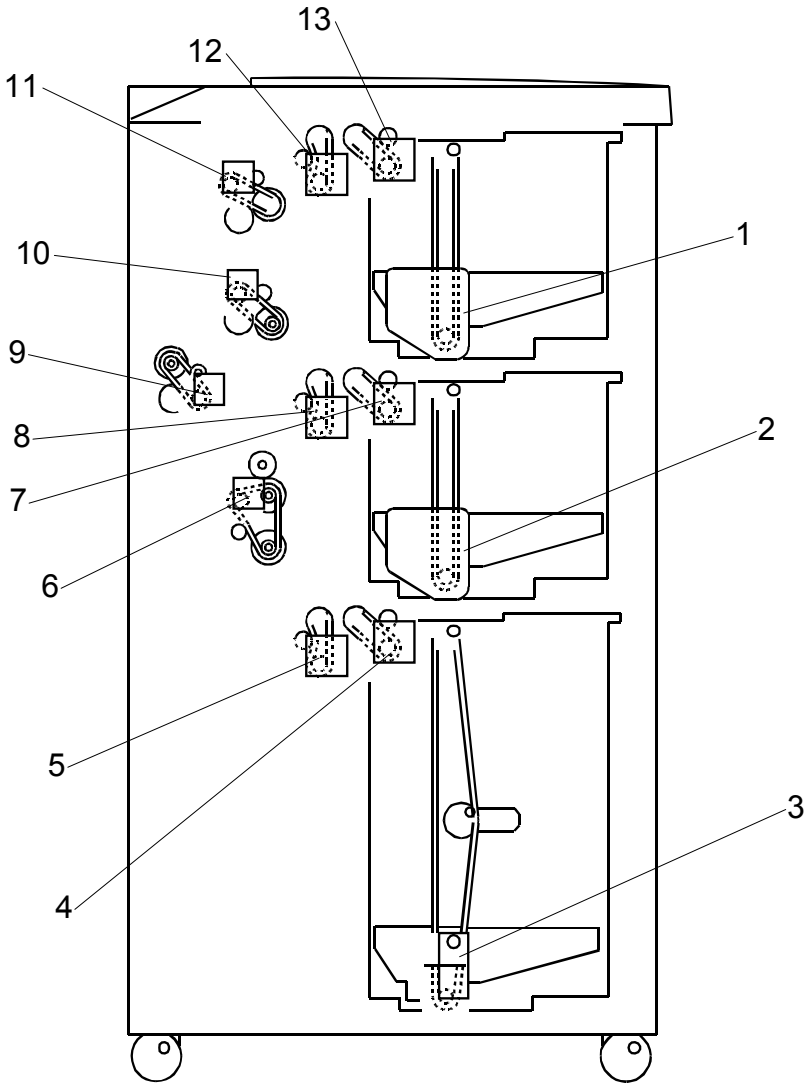
3.1 MECHANICAL COMPONENT LAYOUT



B832V101.WMF

1. 4th Paper Feed Unit*[1]
2. 5th Paper Feed Unit
3. 6th Paper Feed Unit
4. 4th Tray Drive Belt
5. 5th Tray Drive Belt
6. 6th Tray Drive Belt
7. Lower Transport Rollers
8. Horizontal Transport Roller
9. LCT Exit roller
10. Upper Transport Rollers
11. Feed Slot (from Bypass Tray)

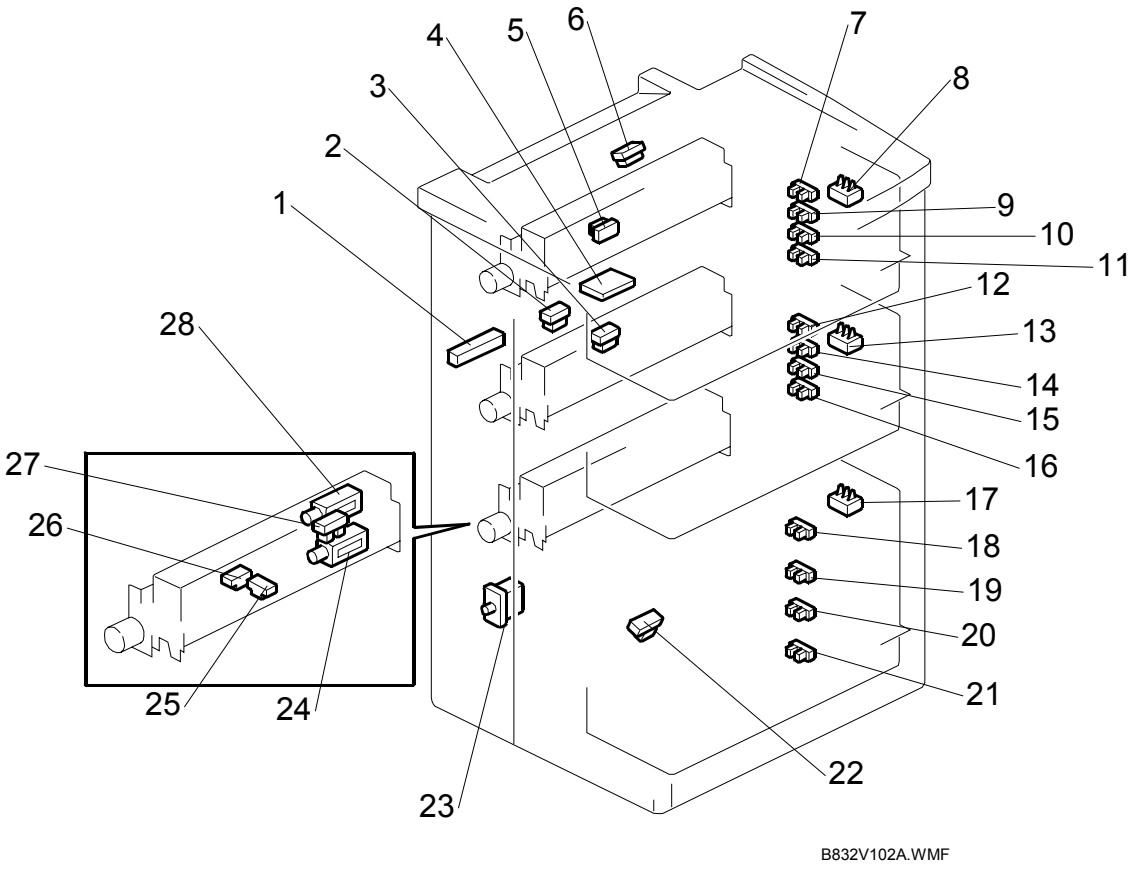
3.2 DRIVE LAYOUT



B832V102.WMF

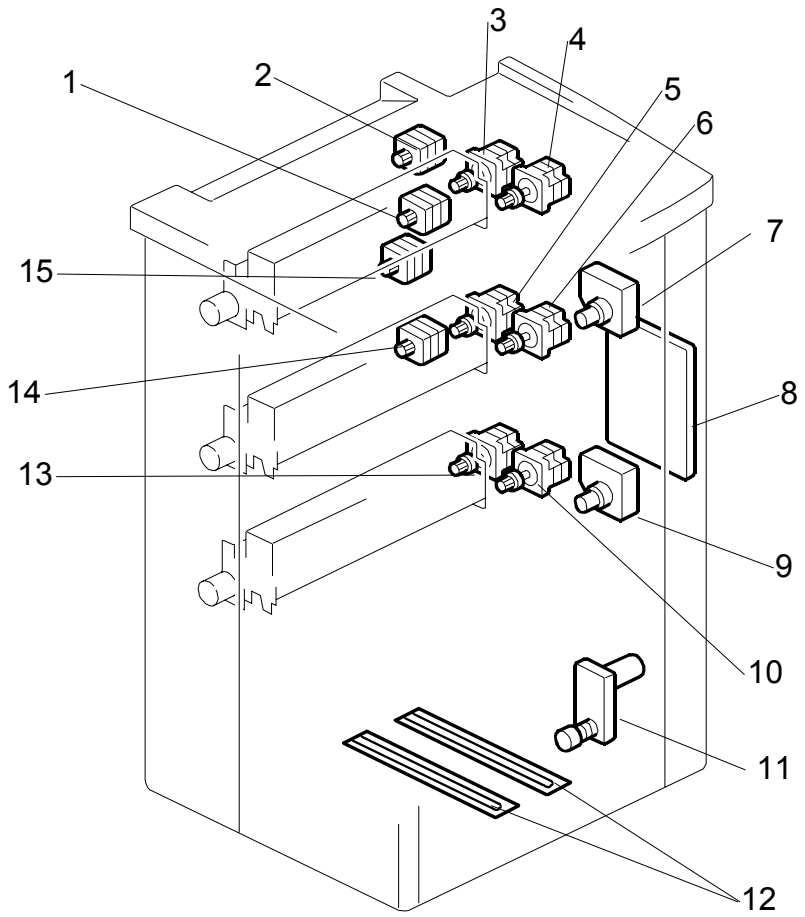
1. 4th Lift Motor
2. 5th Lift Motor
3. 6th Lift Motor
4. 6th Paper Feed Motor
5. 6th Grip Motor
6. 6th Transport Motor
7. 5th Paper Feed Motor
8. 5th Grip Motor
9. LCT Exit Motor
10. 5th Transport Motor
11. 4th Transport Motor
12. 4th Grip Motor
13. 4th Paper Feed Motor

3.3 ELECTRICAL COMPONENTS



1. LCT Image Position Sensor
2. Exit Sensor
3. 5th Transport Sensor
4. Image Position Sensor Board
5. 4th Relay Sensor
6. 4th Transport Sensor
7. 4th Paper Height Sensor 4
8. 4th Paper Size Sensors
9. 4th Paper Height Sensor 3
10. 4th Paper Height Sensor 2
11. 4th Paper Height Sensor 1
12. 5th Paper Height Sensor 4
13. 5th Paper Size Sensors
14. 5th Paper Height Sensor 3
15. 5th Paper Height Sensor 2
16. 5th Paper Height Sensor 1
17. 6th Paper Size Sensors
18. 6th Paper Height Sensor 4
19. 6th Paper Height Sensor 3
20. 6th Paper Height Sensor 2
21. 6th Paper Height Sensor 1
22. 6th Transport Sensor
23. Door Safety Switch
24. 6th Separation Solenoid
25. 6th Paper End Sensor
26. 6th Paper Feed Sensor
27. 6th Lift Sensor
28. 6th Pick-up Solenoid

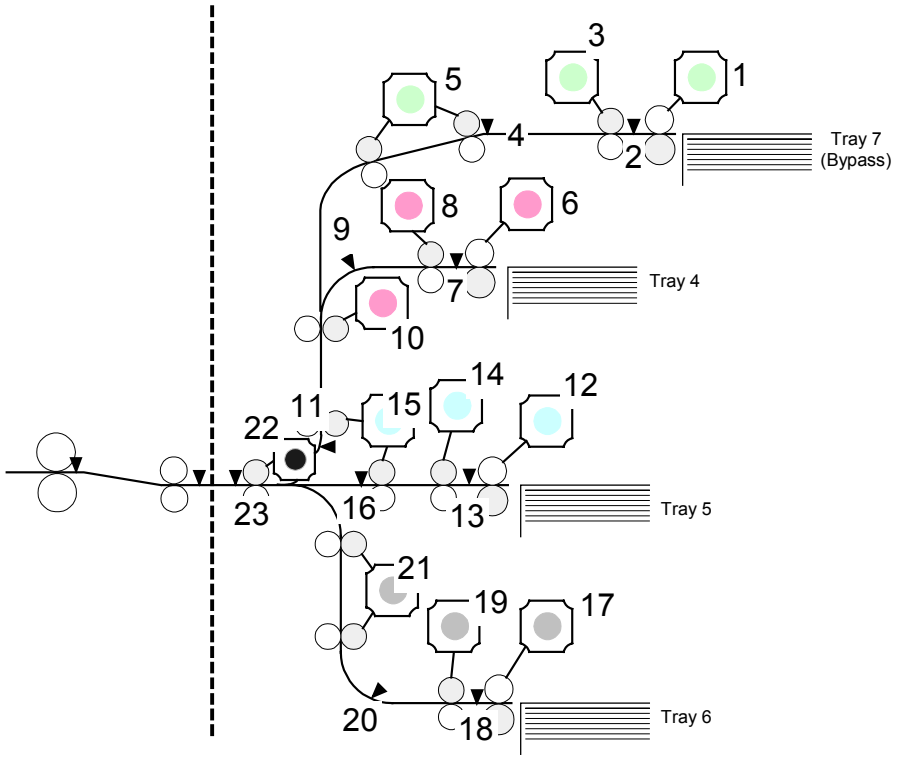
NOTE: Items 24, 25, 26, 27 and 28 are duplicated in the 4th and 5th units.



B832V102B.WMF

1. 5th Transport Motor
2. 4th Transport Motor
3. 4th Grip Motor
4. 4th Paper Feed Motor
5. 5th Grip Motor
6. 5th Paper Feed Motor
7. 4th Lift Motor
8. Main Control Board
9. 5th Lift Motor
10. 6th Paper Feed Motor
11. 6th Lift Motor
12. Anti-Condensation Heaters (Options)
13. 6th Grip Motor
14. 6th Transport Motor
15. LCT Exit Motor

3.4 A4/LT LCT B832 LAYOUT (WITH BYPASS)



B832V901.WMF

1. Paper Feed Motor Bypass)
2. Paper Feed Sensor Bypass)
3. Grip Motor Bypass)
4. Transport Sensor Bypass)
5. Transport Motor Bypass)
6. 4th Paper Feed Motor
7. 4th Paper Feed Sensor
8. 4th Grip Motor
9. 4th Transport Sensor
10. 4th Transport Motor
11. 4th Relay Sensor
12. 5th Paper Feed Motor
13. 5th Paper Feed Sensor
14. 5th Grip Motor
15. 5th Transport Motor
16. 5th Transport Sensor
17. 6th Paper Feed Motor
18. 6th Paper Feed Sensor
19. 6th Grip Motor
20. 6th Transport Sensor
21. 6th Transport Motor
22. LCT Exit Motor
23. LCT Exit Sensor

3.5 ELECTRICAL COMPONENT SUMMARY

Motors		
No.	**Name**	**Description**
M1	4th Grip Motor	Drives the separation roller and the grip roller of the 4th tray.
M2	4th Lift Motor	Drives the bottom plate of the 4th tray up and down.
M3	4th Paper Feed Motor	Drives the pick-roller and feed roller that picks up each sheet and starts to feed it out of the 4th tray.
M4	4th Transport Motor	Drives the rollers in the vertical feed path that feed the paper from the 4th tray to the LCT exit motor.
M5	5th Grip Motor	Drives the separation roller and the grip roller of the 5th tray.
M6	5th Lift Motor	Drives the bottom plate of the 5th tray up and down.
M7	5th Paper Feed Motor	Drives the pick-roller and feed roller that picks up each sheet and starts to feed it out of the 5th tray.
M8	5th Transport Motor	Drives the transport rollers in the vertical feed path that feed the paper from the 4th tray and the 5th tray to the LCT exit motor.
M9	6th Grip Motor	Drives the separation roller and the grip roller of the 6th tray.
M10	6th Lift Motor	Drives the 5th tray up and down.
M11	6th Paper Feed Motor	Drives the pick-roller and feed roller that picks up each sheet and starts to feed it out of the 6th tray.
M12	6th Transport Motor	Drives the rollers in the vertical feed path that feed the paper from the 6th tray to the LCT exit motor.
M13	LCT Exit Motor	Feeds the paper out the LCT and into the entrance of the copier.

PCBs		
No.	**Name**	**Description**
PCB1	Main Control Board	Controls the operation of all motors and sensors in the LCT unit.
PCB2	Image Position Sensor Board	Operates the CIS sensor (performs waveform correction) the LCT. The CRB (CIS Relay Board) and CIS sensor perform side-to-side image correction. The CRB and CIS are a single unit. The CRB is not a separate board.

Sensors		
No.	**Name**	**Description**
S1	4th Lift Sensor	Detects when the paper in the 4th tray is at the correct height for paper feed and switches the 4th lift motor off.
S2	4th Paper End Sensor	Detects when the last sheet feeds from the 4th tray.
S3	4th Paper Feed Sensor	Detects the paper when it arrives at the 4th paper feed roller and checks for misfeeds.
S4	4th Paper Height Sensor 1	4th from the bottom of the 4th tray, detects stack height: 100%
S5	4th Paper Height Sensor 2	5th from the bottom of the 4th tray, detects stack height: 75%
S6	4th Paper Height Sensor 3	6th from the bottom of the 4th tray, detects stack height: 50%
S7	4th Paper Height Sensor 4	4th from the bottom of the 4th tray, detects stack height: 25% and signals near-end.
S8	4th Paper Length Sensor (B834)	Detects the length of the paper in the 4th tray (used in combination with the paper width sensors).
S9	4th Paper Width Sensor 1 (B834)	1 of a set of 3 sensors that detect the width of the

Sensors		
No.	**Name**	**Description**
		paper in the 4th tray.
S10	4th Paper Width Sensor 2 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 4th tray.
S11	4th Paper Width Sensor 3 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 4th tray.
S12	4th Paper Size Sensor 1 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 4th tray.
S13	4th Paper Size Sensor 2 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 4th tray.
S14	4th Paper Size Sensor 3 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 4th tray.
S15	4th Relay Sensor	Detects the leading and trailing edges of the paper in the paper path near the bottom of the 4th tray. Checks the timing of the feed and signals a jam if the paper is late or lags at this location.
S16	4th Relay Sensor - Upper (B834)	Detects the leading and trailing edges of the paper in the paper path near the top of the 4th tray. Checks the timing of the feed and signals a jam if the paper is late or lags at this location.
S17	4th Transport Sensor	Detects jams in the paper path where the transport motor feeds the paper from the 4th tray.
S18	5th Lift Sensor	Detects when the paper in the 5th tray is at the correct height for paper feed and switches the 4th lift motor off.
S19	5th Paper End Sensor	Detects when the last sheet feeds from the 5th tray.
S20	5th Paper Feed Sensor	Detects the paper when it arrives at the 5th paper feed roller and checks for misfeeds.
S21	5th Paper Height Sensor 1	4th from the bottom of the 5th tray, detects stack height: 100%
S22	5th Paper Height Sensor 2	5th from the bottom of the 5th tray, detects stack height: 75%
S23	5th Paper Height Sensor 3	6th from the bottom of the 5th tray, detects stack height: 50%
S24	5th Paper Height Sensor 4	4th from the bottom of the 5th tray, detects stack height: 25% and signals near-end.
S25	5th Paper Length Sensor (B834)	Detects the length of the paper in the 5th tray (used in combination with the paper width sensors).
S26	5th Paper Width Sensor 1 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S27	5th Paper Width Sensor 2 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S28	5th Paper Width Sensor 3 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S29	5th Paper Size Sensor 1 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S30	5th Paper Size Sensor 2 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S31	5th Paper Size Sensor 3 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 5th tray.
S32	5th Relay Sensor (B834)	Detects the leading and trailing edges of the paper in the paper path near the 5th tray. Checks the timing of the feed and signals a jam if the paper is late or lags at this location.
S33	5th Transport Sensor	Detects jams in the paper path where the transport motor feeds the paper from the 5th tray.
S34	6th Lift Sensor	Detects when the paper in the 6th tray is at the correct height for paper feed and switches the 4th

Sensors		
No.	**Name**	**Description**
		lift motor off.
S35	6th Paper End Sensor	Detects when the last sheet feeds from the 6th tray.
S36	6th Paper Feed Sensor	Detects the paper when it arrives at the 6th paper feed roller and checks for misfeeds.
S37	6th Paper Height Sensor 1	4th from the bottom of the 6th tray, detects stack height: 100%
S38	6th Paper Height Sensor 2	5th from the bottom of the 6th tray, detects stack height: 75%
S39	6th Paper Height Sensor 3	6th from the bottom of the 6th tray, detects stack height: 50%
S40	6th Paper Height Sensor 4	4th from the bottom of the 6th tray, detects stack height: 25% and signals near-end.
S41	6th Paper Length Sensor (B834)	Detects the length of the paper in the 6th tray (used in combination with the paper width sensors).
S42	6th Paper Width Sensor 1 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S43	6th Paper Width Sensor 2 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S44	6th Paper Width Sensor 3 (B834)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S45	6th Paper Size Sensor 1 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S46	6th Paper Size Sensor 2 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S47	6th Paper Size Sensor 3 (B832)	1 of a set of 3 sensors that detect the width of the paper in the 6th tray.
S48	6th Relay Sensor (B834)	Detects the leading and trailing edges of the paper in the paper path near the 6th tray. Checks the timing of the feed and signals a jam if the paper is late or lags at this location.
S49	6th Transport Sensor	Detects jams in the paper path where the transport motor feeds the paper from the 6th tray.
S50	LCT Exit Sensor	Detects jams at the exit of the LCT unit.
S51	LCT Image Position Sensor	Mounted on the CRB (CIS Relay Board), this contact image sensor detects the side-to-side edges of the paper in the paper path. The machine uses this information to correct the position of the image when the lasers fire.

Solenoids		
No.	**Name**	**Description**
SOL1	4th Pick-up Solenoid	Engages/disengages rotation of the pick-up roller in the 4th tray.
SOL2	4th Separation Solenoid	Controls up-down movement of the separation roller in the 4th tray.
SOL3	5th Pick-up Solenoid	Engages/disengages rotation of the pick-up roller in the 5th tray.
SOL4	5th Separation SOL	Controls up-down movement of the separation roller in the 5th tray.
SOL5	6th Pick-up Solenoid	Engages/disengages rotation of the pick-up roller in the 6th tray.
SOL6	6th Separation Solenoid	Controls up-down movement of the separation roller in the 6th tray.

Switches		
No.	**Name**	**Description**
SW1	Door Safety Switch	An interlock safety switch that detects when the front door is opened and closed.

Other		
No.	**Name**	**Description**
H1, H2	Anti-Condensation Heaters	Evaporates moisture around the trays in the LCT (230V 18W). This is an option