



Lexmark™ C750

5060-00x

Lexmark Repair Catalog

The following information is from Lexmark's Service Manual.

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U.S.A. P/N 12G9174

Repair information

Warning: Read the following before handling electronic parts.




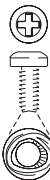
Handling ESD-sensitive parts



Many electronic products use parts that are known to be sensitive to electrostatic discharge (ESD). To prevent damage to ESD-sensitive parts, use the following instructions in addition to all the usual precautions, such as turning off power before removing logic boards:





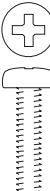
- Keep the ESD-sensitive part in its original shipping container (a special “ESD bag”) until you are ready to install the part into the machine.
- Make the least-possible movements with your body to prevent an increase of static electricity from clothing fibers, carpets, and furniture.
- Put the ESD wrist strap on your wrist. Connect the wrist band to the system ground point. This discharges any static electricity in your body to the machine.
- Hold the ESD-sensitive part by its edge connector shroud (cover); do not touch its pins. If you are removing a pluggable module, use the correct tool.
- Do not place the ESD-sensitive part on the machine cover or on a metal table; if you need to put down the ESD-sensitive part for any reason, first put it into its special bag.
- Machine covers and metal tables are electrical grounds. They increase the risk of damage because they make a discharge path from your body through the ESD-sensitive part. (Large metal objects can be discharge paths without being grounded.)
- Prevent ESD-sensitive parts from being accidentally touched by other personnel. Install machine covers when you are not working on the machine, and do not put unprotected ESD-sensitive parts on a table.
- If possible, keep all ESD-sensitive parts in a grounded metal cabinet (case).
- Be extra careful in working with ESD-sensitive parts when cold-weather heating is used because low humidity increases static electricity.

Screw identification table

The following table contains screw types, locations, and quantities necessary to service the printer. Pay careful attention to each screw type location when doing removals. You must install the correct screw type in each location during reassembly.

Reference number	Screw type	Location	Purpose	Qty
002 	4-40 machine	Parallel connector to shield	Attach	2
102 	M3.5x8mm thread cutting	Cartridge guides to upper frame	Attach	8
		Upper front cover to cartridge guides	Attach	4
		Front cover pivot to front upper cover	Attach	2
		Front left light shield to upper front cover	Attach	1
121 	M3.5x6mm machine	LVPS to lower frame	Mounting	7
		Right rear cover to LVPS	Attach	1
		HVPS standoffs to upper frame	Attach	4
232 	M3x6mm Taptite metal thread forming	Ground cable to right front cover support and upper frame.	Attach	2
		Ground cable to bottom support plate and engine card shield	Attach	2
		Back lamp brackets to fuser frame	Attach	2
		Front lamp brackets to fuser frame	Attach	2
		Blank INA covers to RIP shield	Mounting	2
		RIP card ground shield to RIP shield	Mounting	5
		RIP shield to engine shield	Mounting	4
		RIP card to RIP shield	Mounting	12
		Engine card to engine shield	Mounting	6
		RIP shield cover to RIP shield	Mounting	8
		V-block plates to upper frame	Mounting	2
		Ground cable strap to RIP ground shield	Attach	1

Reference number	Screw type	Location	Purpose	Qty
312 	M2.9x6mm Plastite	Front access door assembly	Mounting	3
		Door handle to cover	Mounting	2
		Detent housing to cover	Mounting	1
		ITU switch housing to light shield	Attach	1
		Duplex baffle to lower right door	Attach	4
		Front and rear latches to lower right door	Mounting	2
		Bias latch cover to door	Attach	1
		MPF asm to MPF door	Attach	6
		Support bracket to MPF door	Attach	4
		MPF cable cover to door asm	Mounting	1
		MPF latch support brackets to upper frame	Attach	2
		Voltage cable to terminal (BOR/ITU) black	Attach	1
		Voltage cable to terminal (BOR/ITU) cyan	Attach	1
		Voltage cable to terminal (BOR/ITU) magenta	Attach	1
		Voltage cable to terminal (BOR/ITU) yellow	Attach	1
323 	M3.5x1.35mm Plastite 8 long	Frame support back plate to lower frame	Attach	2
		Door latch catch to frame	Attach	2
		Transfer HVPS to lower frame	Mounting	1
		Fuser top duct to lower frame	Attach	1
		Right front cover support to lower frame	Attach	1
		Front lower left cover to lower frame	Attach	1
		Front left handle cover asm to lower frame	Attach	4
		Front lower right cover to lower frame	Attach	1
		Front right handle cover asm to lower frame	Attach	4
		Right front cover to lower frame	Attach	2
		Left lower cover to lower frame	Attach	2
		Left upper cover asm to lower frame	Attach	2
		Left upper cover asm to upper frame	Attach	1
		Left lower pivot to lower frame	Attach	2
		Left upper pivot to left lower cover	Attach	1
		Rear cover to lower frame, left cover	Attach	6
		Rear fan cover to lower frame and top cover	Attach	4
		Top cover asm to upper front cover	Attach	3
		Top cover asm to RIP shield	Attach	1
		ITU light shield asm to upper front guide ITU	Attach	1
		Ribs to upper redrive door	Mounting	5
		Upper door hinges to upper frame (redrive)	Mounting	2
		Inner redrive asm to upper frame (redrive)	Mounting	2
		Developer HVPS to cartridge contact asm	Mounting	4
		Engine card shield to frame	Mounting	5
		BOR drive asm to upper frame	Mounting	1

Reference number	Screw type	Location	Purpose	Qty
323 (continued) 	M3.5 x 1.35mm Plastite 8 long (continued)	ITU drive asm to lower frame	Mounting	3
		Fuser drive asm to lower frame	Mounting	4
		Vacuum top duct to lower frame	Mounting	2
		Toner shield to lower frame	Attach	4
		Upper deflector to lower frame (PF XPORT)	Mounting	2
		VTB asm to lower frame (PF XPORT)	Mounting	2
		Inner deflector to VTB assembly (PF XPORT)	Attach	1
		Jam access spring to VTB asm (PF XPORT)	Attach	1
		500 pick assembly to lower frame	Mounting	3
		Paper size sensing assembly to lower frame	Mounting	1
		Paper level sensing assembly to lower frame	Mounting	3
324 	M3.5x10mm Plastite thread forming	Transfer HVPS/RIP fan asm to RIP shield	Attach	1
		Front left light shield to left upper cover asm and top cover	Attach	1
		Front right light shield to right front cover support and top cover	Attach	1
		Cartridge drive assemblies to upper frame	Mounting	12
		Upper door hinges to upper frame (redrive)	Attach	2
		Inner redrive assembly to upper frame	Mounting	2
412 	2.9x5.2mm Plastite	Hinge restraint to door (MPF) SEMS	Attach	1
423 	M3.5x9 Plastite	Tray bias bellcrank to tray	Mounting	1
484 	M3.5x14 Machine Panhead	Printhead to upper frame	Mounting	12

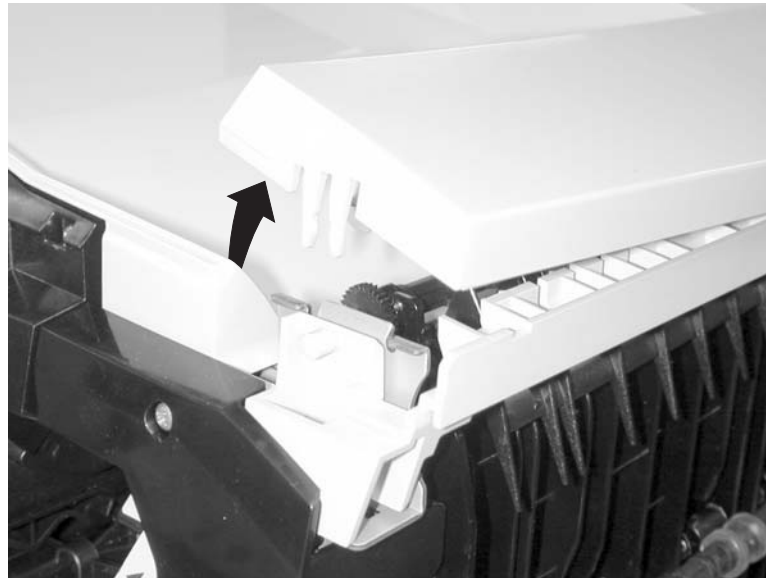
Removal procedures

CAUTION: Remove the power cord from the printer or electrical outlet before you connect or disconnect any cable or electronic board or assembly for personal safety and to prevent damage to the printer. Disconnect any connections between the printer and PCs/peripherals. The printer weighs 47.7 kg (105 lb) and requires at least two people to lift it safely. Make sure your fingers are not under the printer when you lift or set the printer down.

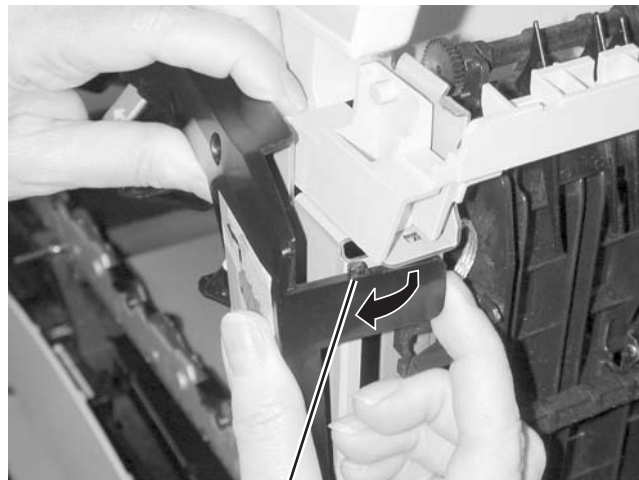
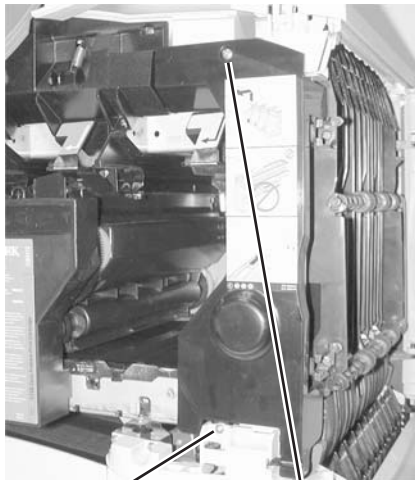
Note: Some removal procedures require removing cable ties. You must replace cable ties during reassembly to avoid pinching wires, obstructing the paper path, or restricting mechanical movement.

Top cover assembly removal

1. Remove the redrive cap.



2. Remove the right light shield screw type "324" (A) and "323" (B) and release tab (C) from the frame slot.

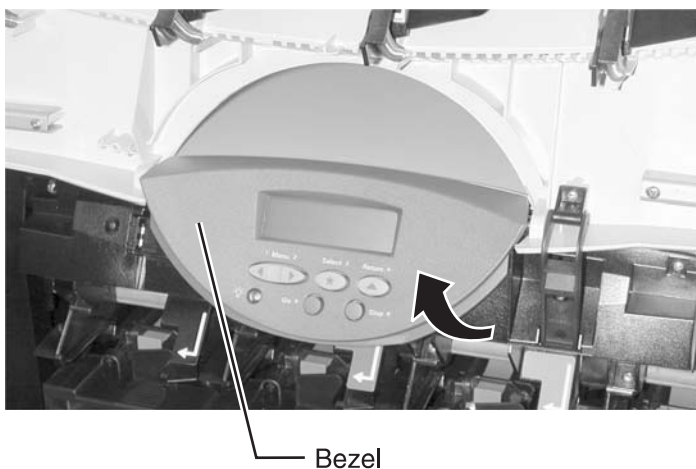


B(323) A(324)

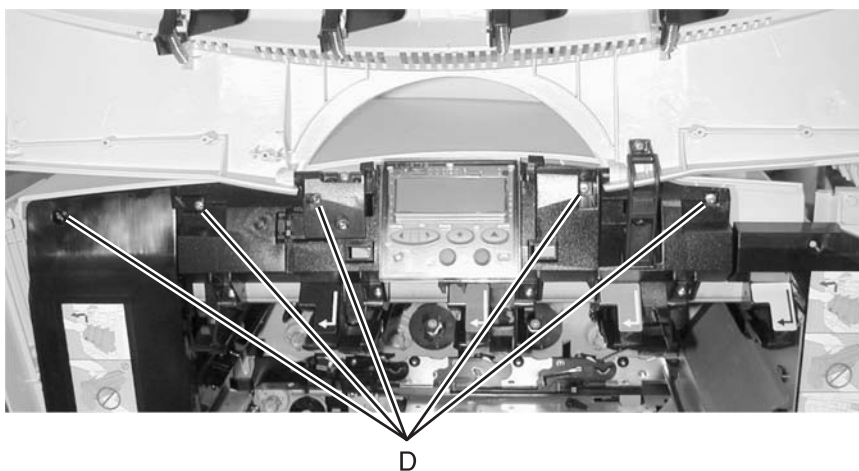
C

3. Remove the right light shield.

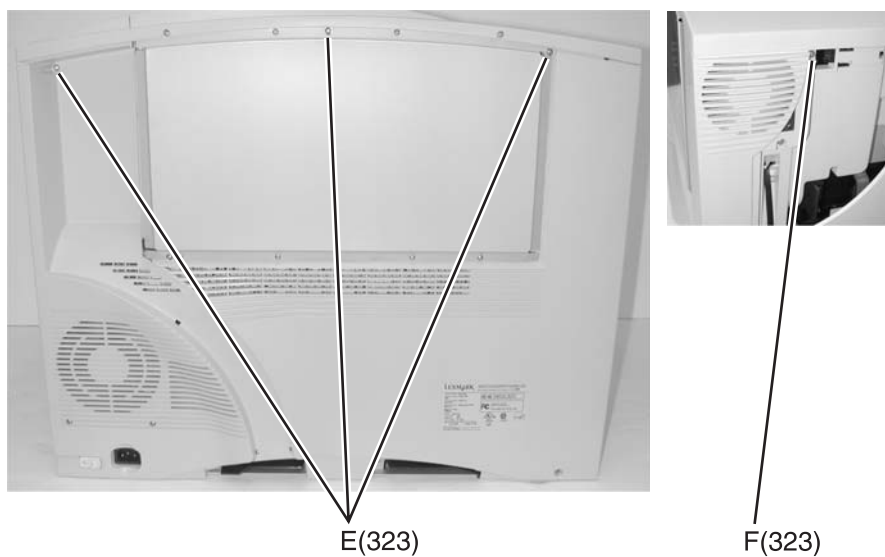
4. Remove the operator panel bezel.



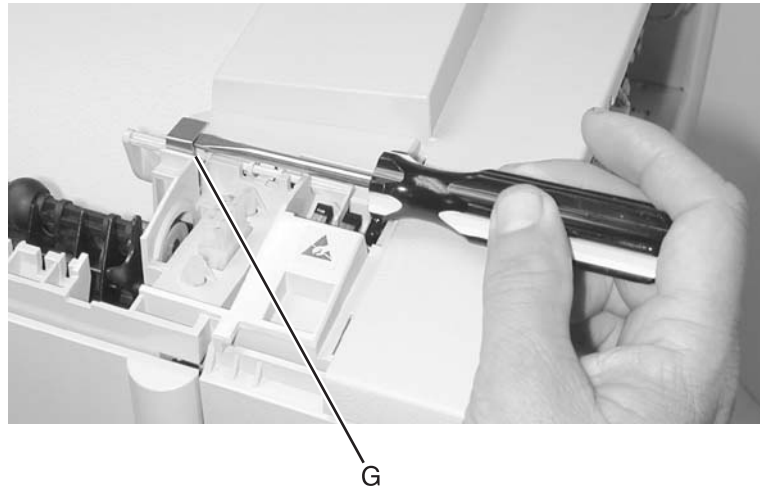
5. Remove the top cover mounting screws (D) from the front of the printer.



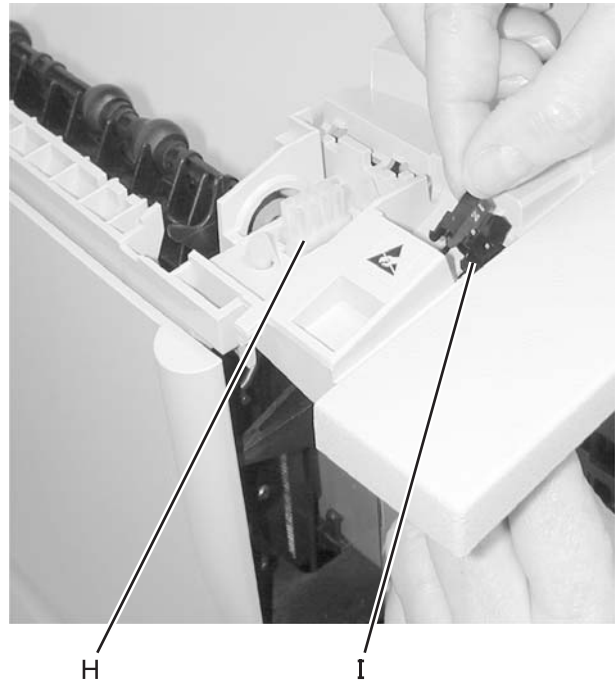
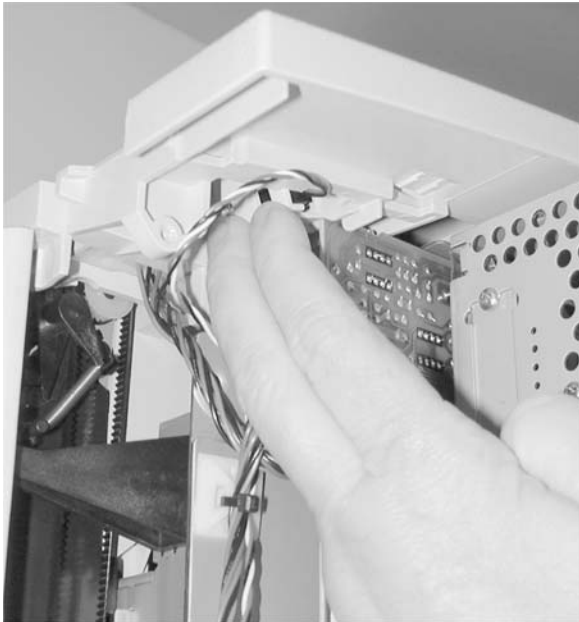
6. Remove the three top cover screws (E) type **"323"** on page 4-3 from the rear and the screw (F) from the left side of the printer.



7. Remove the flag retainer (G) from the top cover.



8. Under the top cover, unclip the bin full sensor (H). Tilt the sensor and lower it through the top cover.
9. Remove the upper option autoconnect (I).



10. Remove the top cover.

Rear fan cover removal

See “Rear fan cover” on page 7-5 for the part number.

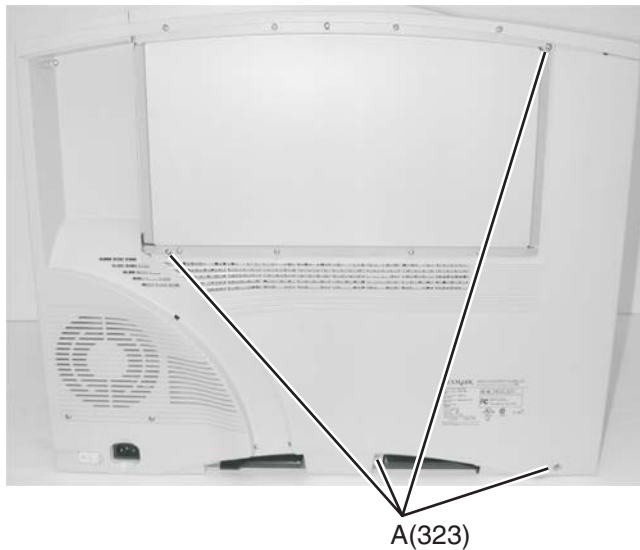
1. Remove the rear cover. See “Rear cover removal” on page 4-8.
2. Remove the rear fan cover screw type “323” (A) and remove the rear fan cover.



Rear cover removal

See “Rear cover” on page 7-5 for the part number.

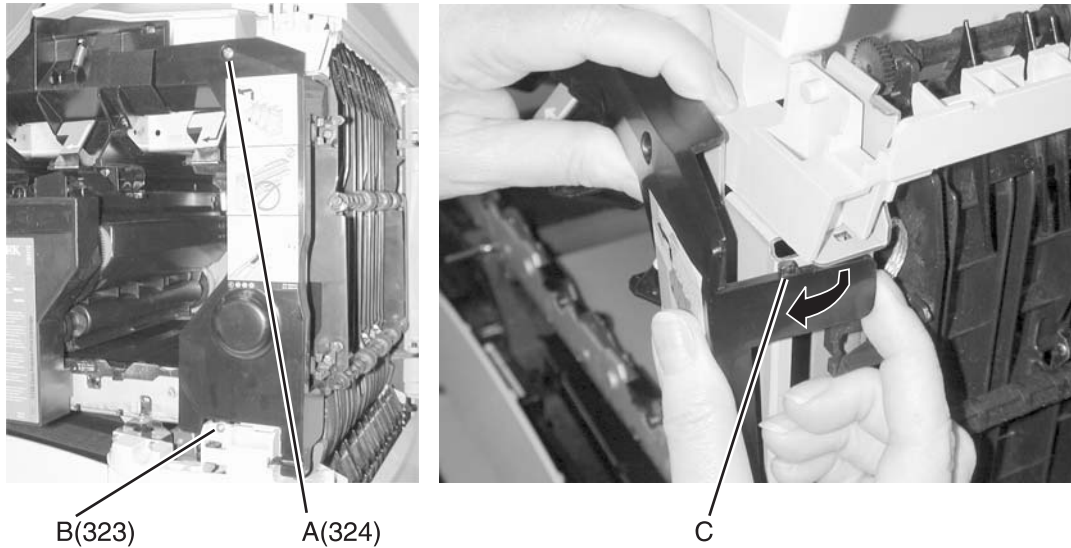
1. Remove the rear cover screw type “323” (A).
2. Open the MPF, remove the rear cover screw type “323” (B), and remove the rear cover.



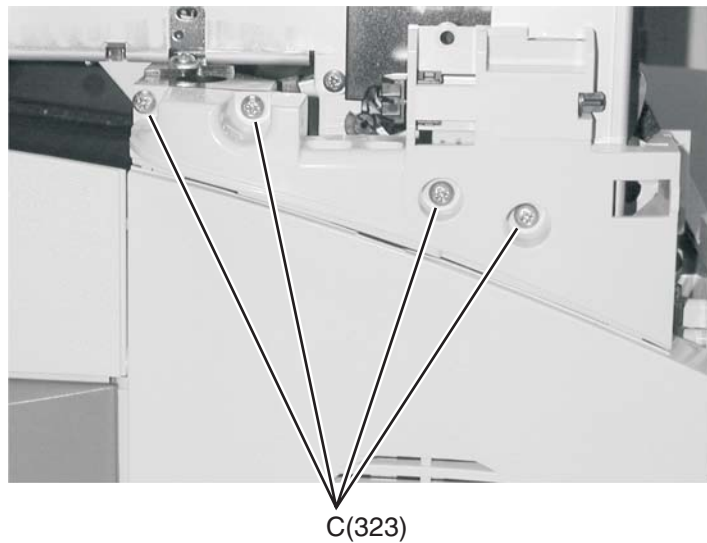
Front right handle cover assembly removal

See **"Front right handle cover assembly"** on page 7-3 for the part number.

1. Open the front cover.
2. Remove the light shield screw type **"324"** (A) and screw type **"323"** (B) and release tab (C) from the frame slot.



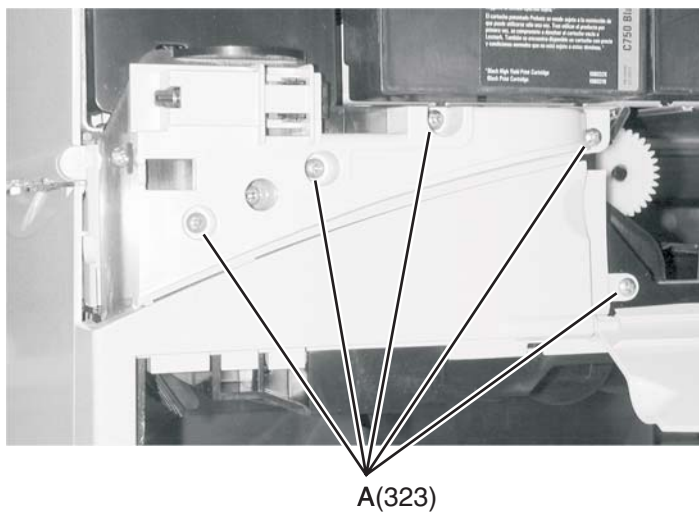
3. Remove the light shield.
4. Remove the front right handle cover assembly screw type **"323"** (C) and remove the assembly.



Front left handle cover assembly removal

See **“Front left handle cover assembly”** on page 7-3 for the part number.

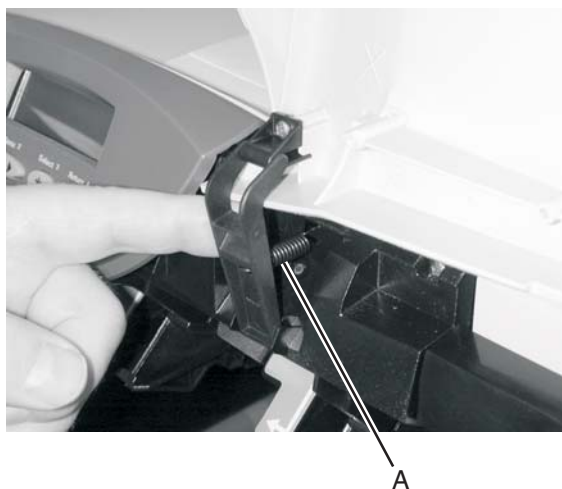
1. Open the front cover.
2. Remove the front left handle cover assembly screw type **“323”** (A) and remove the assembly.



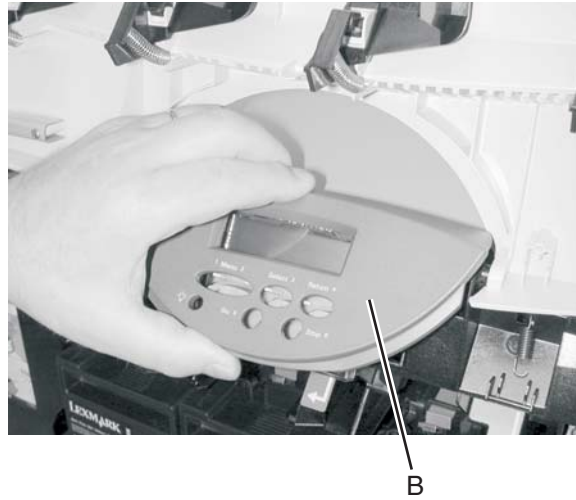
Front cover assembly removal

See **“Front cover assembly”** on page 7-3 for the part number.

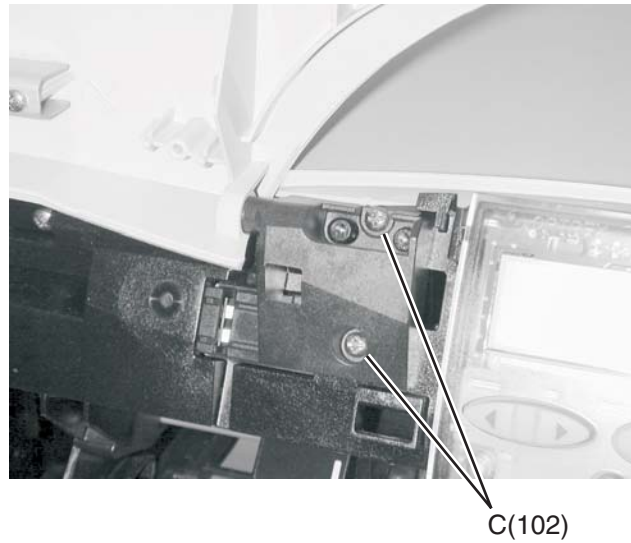
1. Open the front cover.
2. Remove the detent post tension spring (A).



3. Remove the bezel (B).



4. Hold the front cover and remove the two screws type “102” (C) from the upper front pivot cover.



5. Remove the front cover assembly.

Lower right door assembly removal

See **“Lower right door assembly” on page 7-3** for the part number.

1. Open the lower right door assembly.
2. Remove the front right handle cover assembly. See **“Front right handle cover assembly removal” on page 4-9**.
3. Remove the screw (A) on the lower right front cover.



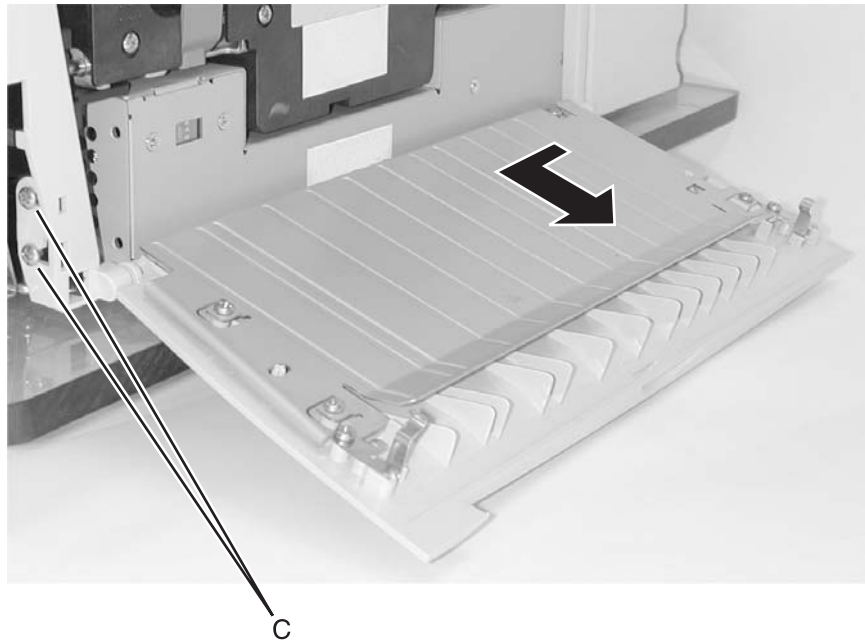
A(323)

4. Close the paper path access door and tape front jam access door (B) if tape is available, to help hold the door in place.
The spring loaded door is difficult to reassemble. Avoid disassembly of the door, unless you need to replace the paper path access door.



B

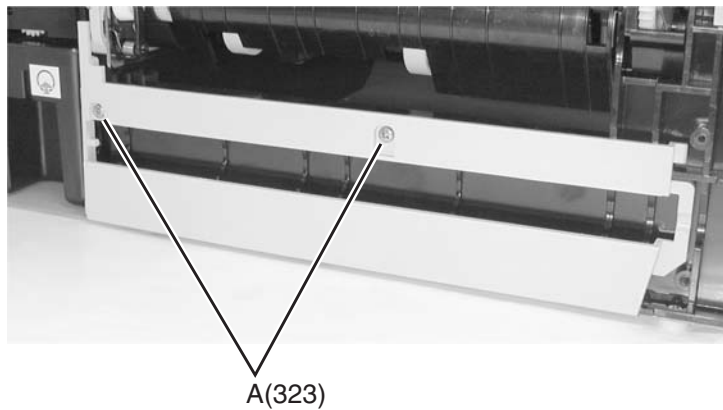
5. Loosen the two screws (C).



6. Remove the lower right door assembly.

Left lower cover removal

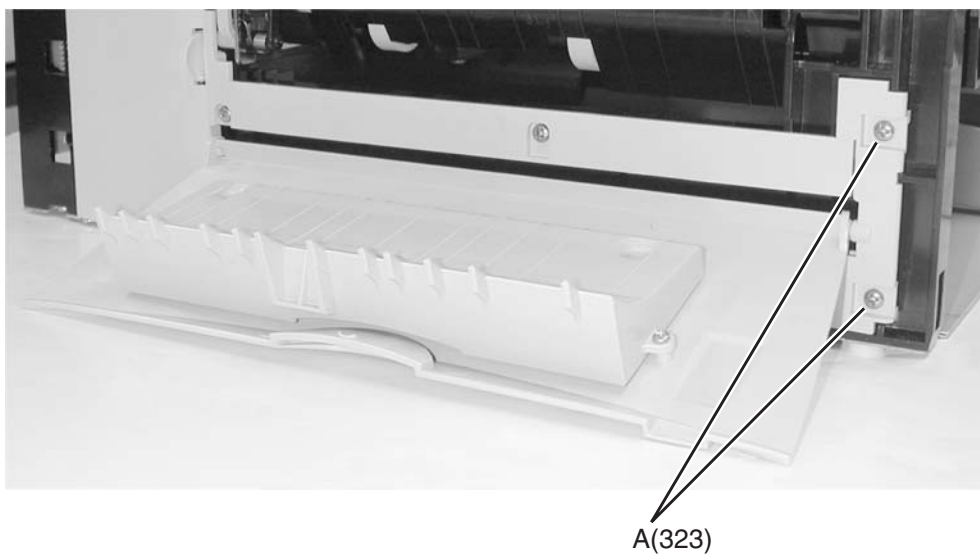
1. Remove the lower jam access door assembly. See **“Lower jam access door assembly removal”** on **page 4-14**.
2. Remove the left lower cover screw type **“323”** (A) and remove the cover.



Lower jam access door assembly removal

See **“Cover, left lower” on page 7-5** for the part number.

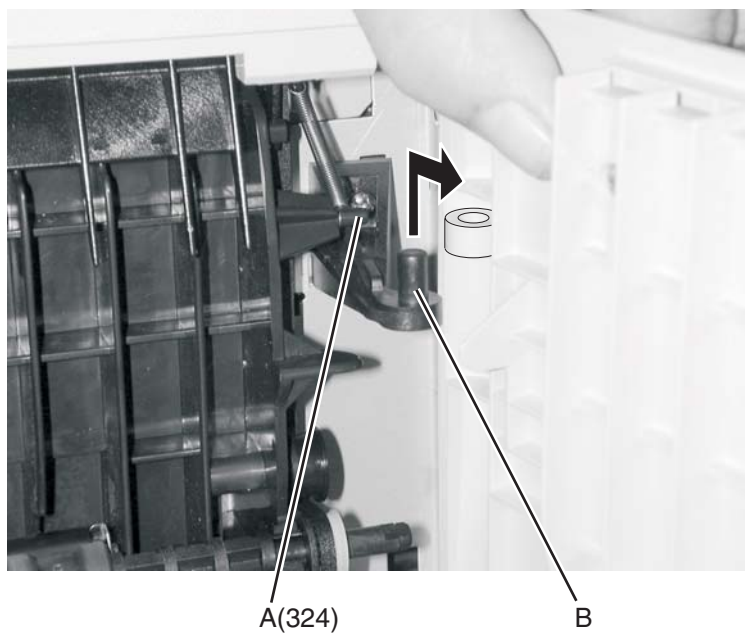
1. Remove the front left handle cover assembly. See **“Front left handle cover assembly removal” on page 4-10**.
2. Remove the lower jam access door assembly screw type **“323”** (A) and remove the door.



Redrive door removal

See **“Redrive door” on page 7-16** for the part number.

1. Open the redrive door.
2. Loosen the redrive door upper hinge screw type **“324”** (A).
3. Lift the redrive door from the hinge (B) and remove the redrive door.



Paper path access door cover removal

See **"Paper path access door" on page 7-3** for part number.

1. Remove the paper tray.
2. Remove the front left handle cover assembly. See **"Front left handle cover assembly removal" on page 4-10**.
3. Open the paper path access door, carefully remove screw (A) type **"323" on page 4-3**, and remove the door.



A(323)

4. Remove the front lower left cover and door.
Do not lose the spring.

Front lower left cover removal

See **“Front lower left cover” on page 7-3** for part number.

1. Remove the paper tray.
2. Remove the front left handle cover assembly. See **“Front left handle cover assembly removal” on page 4-10.**
3. Open the paper path access door, carefully remove screw (A) type **“323” on page 4-3**, and close the door.



A(323)

4. Close the paper path access door and tape front jam access door (B) if tape is available, to help hold the door in place.

The spring loaded door is difficult to reassemble. Avoid disassembly of the door, unless you need to replace the paper path access door.

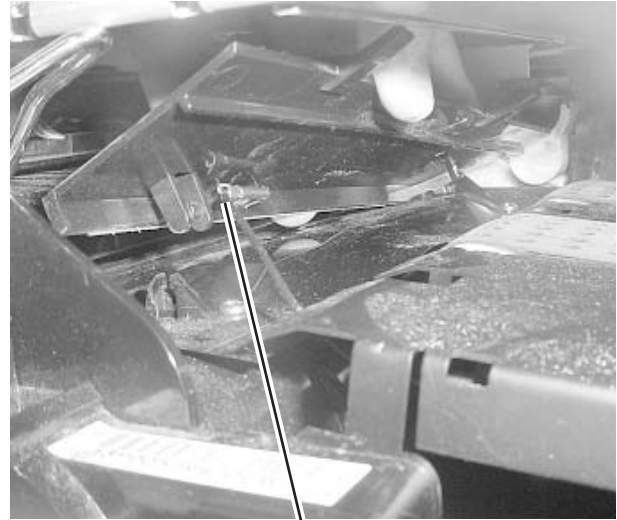
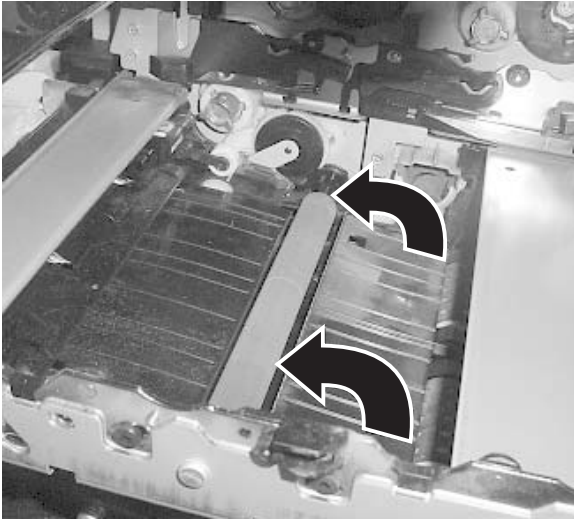


B

5. Remove the front lower left cover with the paper path door attached.

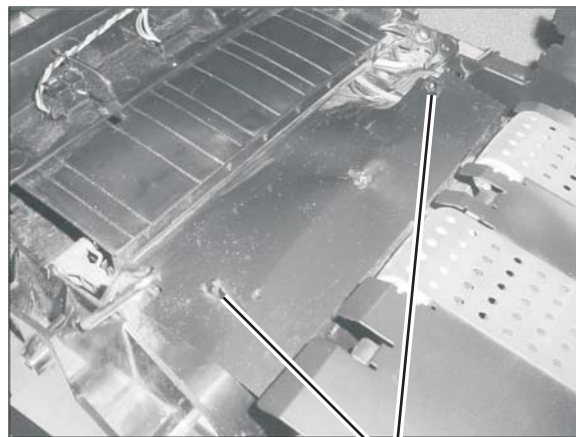
Autocompensator pick assembly removal

1. Remove all cartridges.
2. Remove the ITU. See **"ITU assembly removal" on page 4-37.**
3. Remove tray 1.
4. Remove the second transfer roll. See **"Second transfer roll removal" on page 4-79.**
5. Remove the transfer plate. Lifting and rotating the right edge of the plate up to a 45° angle will release the transfer plate. Remove the grounding strap (A) attached to the bottom of the transfer plate.



A

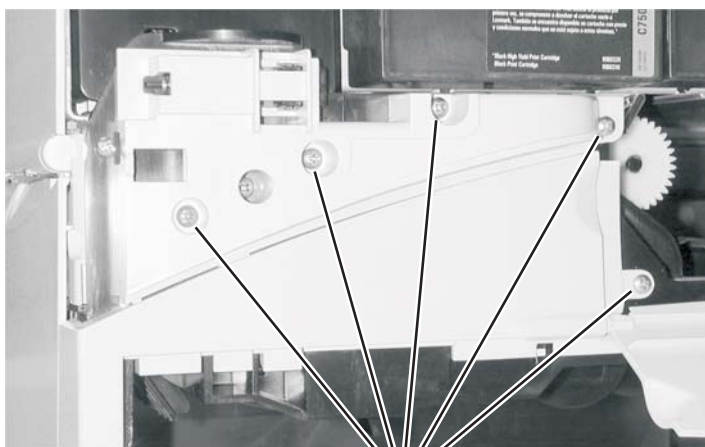
6. Remove the black mylar piece by removing the two screws (B) or cutting the cable tie.



B

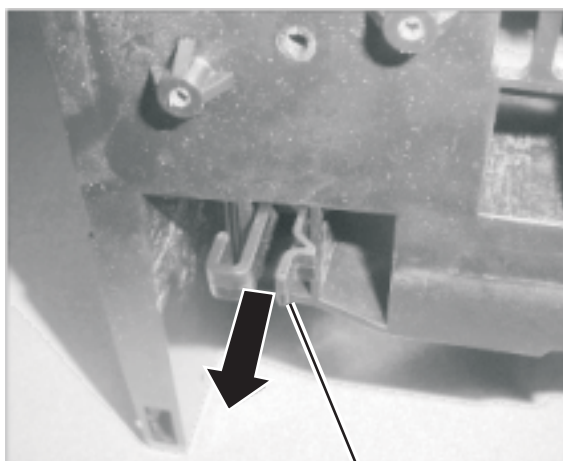
7. Remove the five screws “323” (C) and remove the lower left cover and the jam access door.

Warning: Be careful not to lose the access door spring.



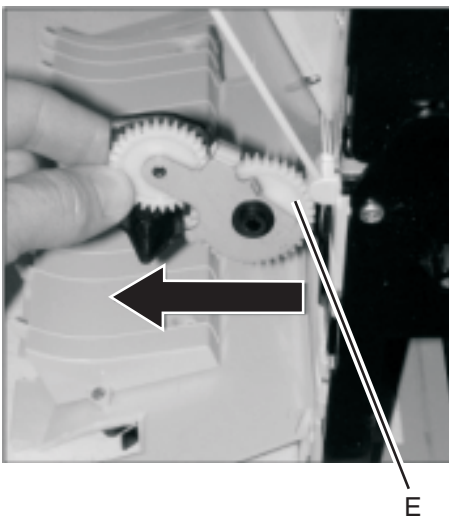
C(323)

8. Remove the pin (D) that holds in the MPF swing arm assembly.

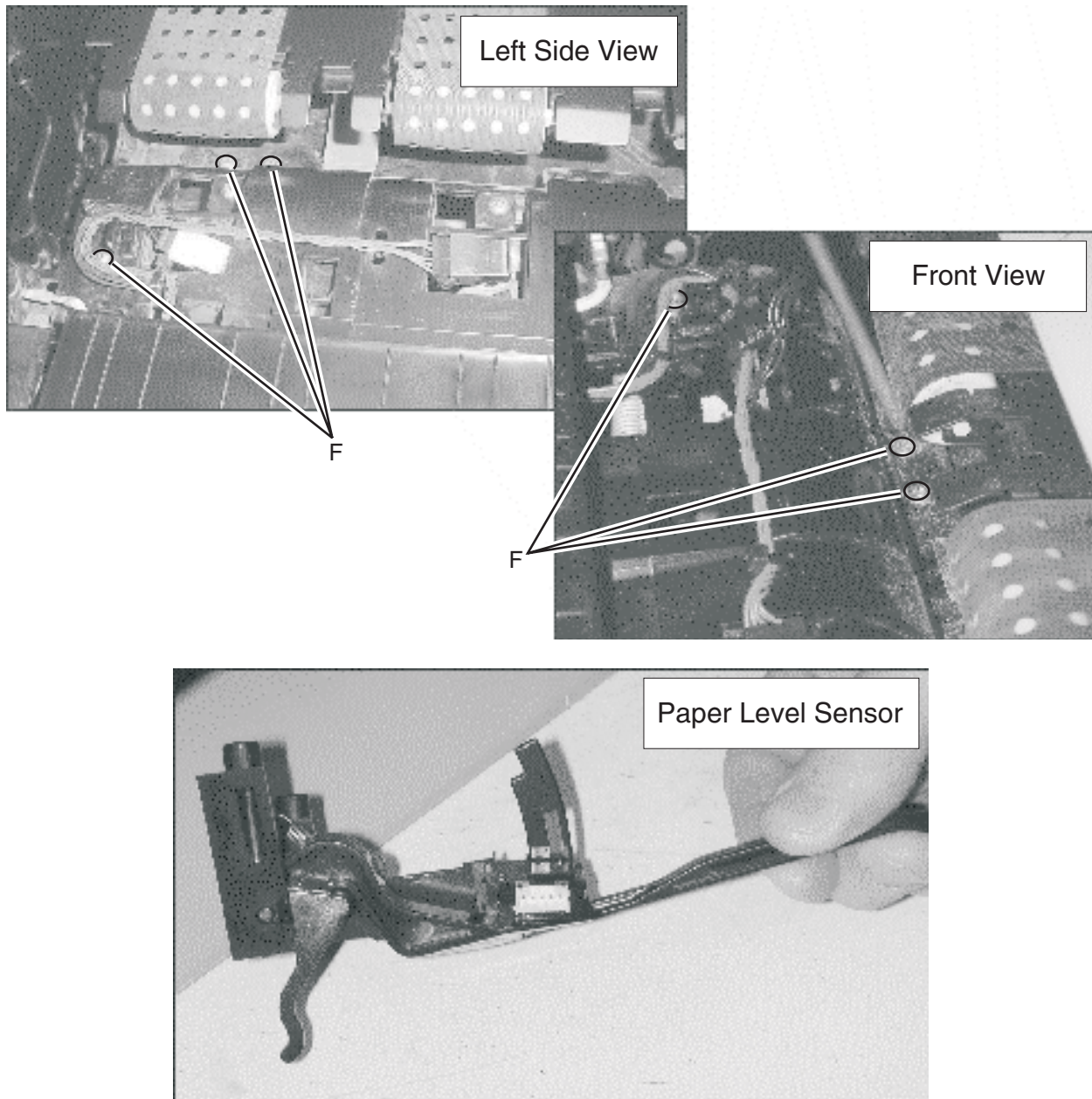


D

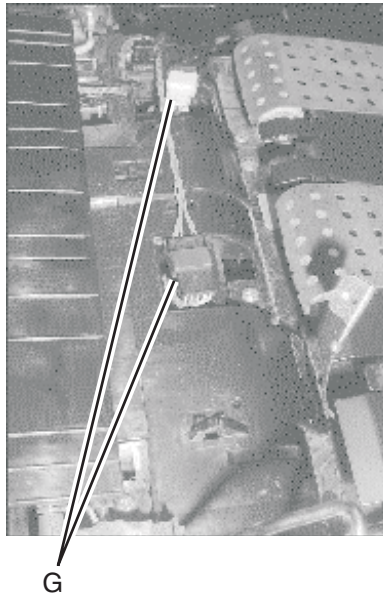
9. Remove the MPF swing arm assembly (E).



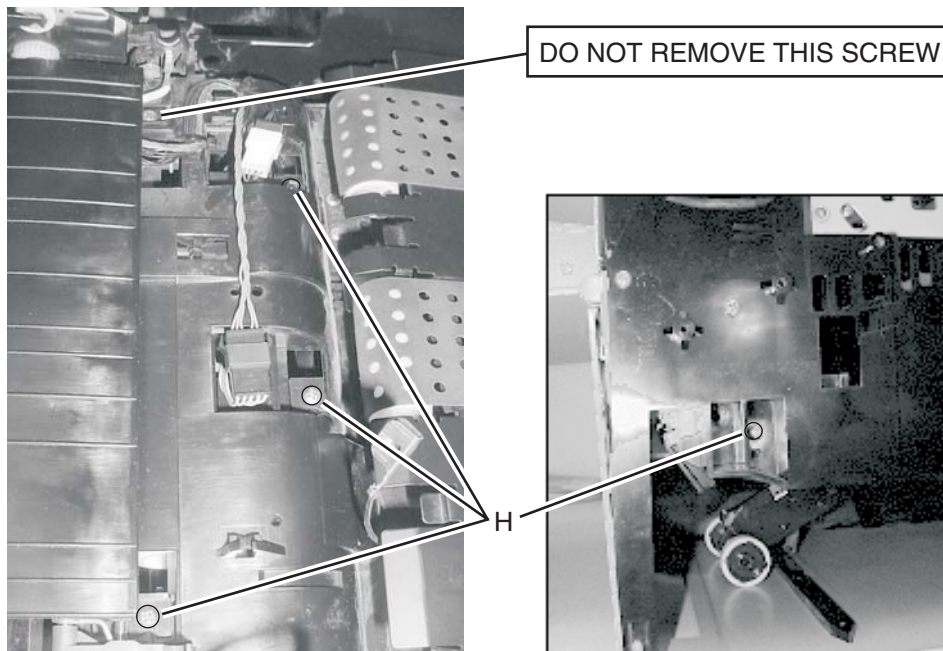
- 10.** Remove paper level sensor. There are two screws located under the back VTB belt. Remove both of them along with a third that is located at the rear pivot point for the transfer plate (F). This allows the paper level assembly to drop into the cavity that the tray is inserted into. Disconnect the cable from the paper level sensor. Pull the paper level sensor cable up through the opening. Remove the paper level sensor assembly.



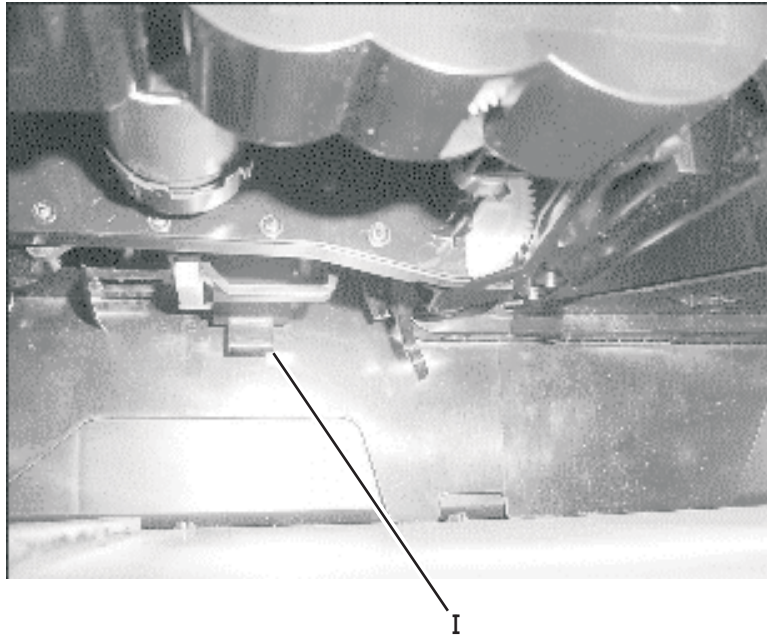
11. Disconnect the pick motor and the transparency sensor connectors (G).



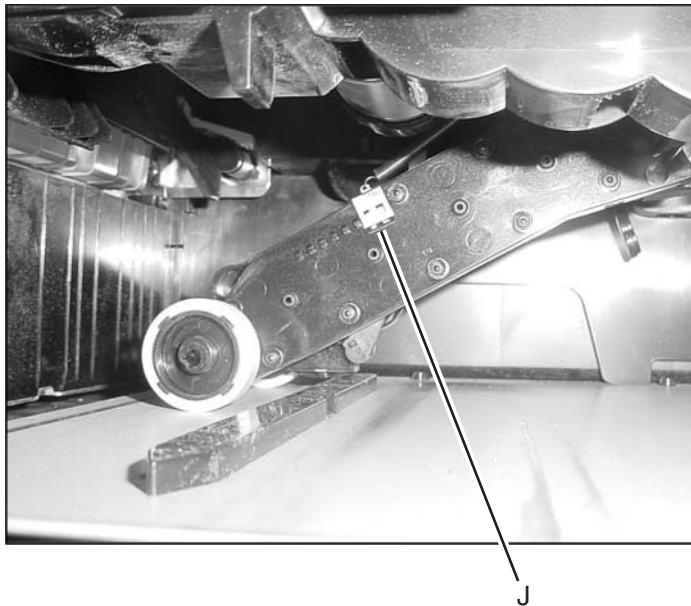
12. Remove four screws (H) holding the pick assembly in place.



- 13.** Push the bellcrank (I) in to allow the pick arm to fall to the bottom of the tray.



- 14.** Disconnect the spring clip (J) from the pick arm. Be sure not to let the spring come off of the lower frame. Also identify which pegs the spring clip is sitting on. These pegs are typically marked with white paint.

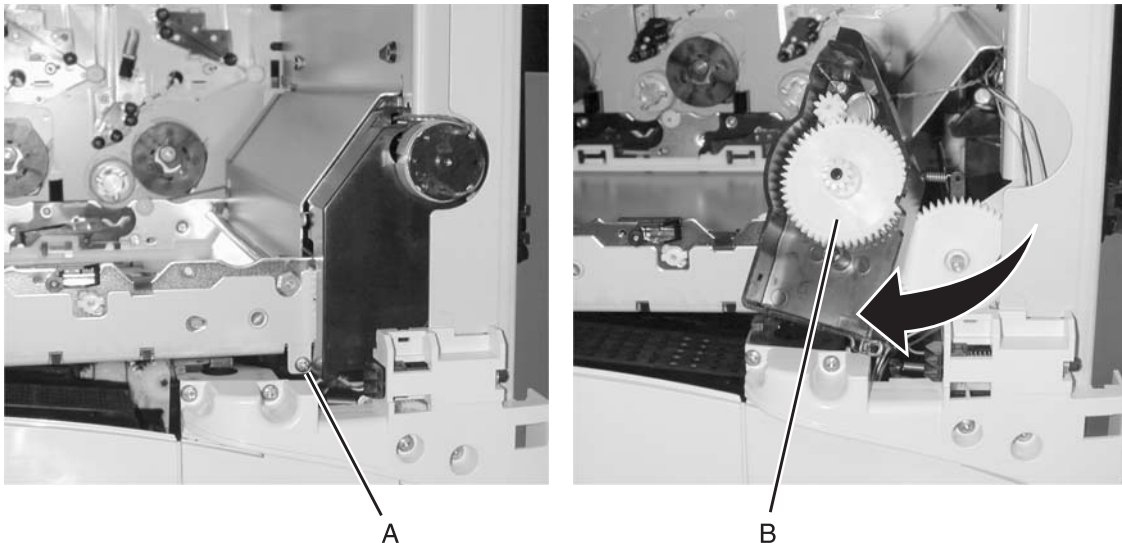


BOR drive assembly removal

See **“BOR housing assembly with motor”** on page 7-30 for the part number.

1. Open the front cover.
2. Remove the yellow toner cartridge.
3. Remove the front right light shield cover.
4. Remove the BOR housing assembly screw type **“323”** (A) and remove the assembly.

Note: Gear (B) can easily fall from the assembly. Be careful not to lose the gear.



Cartridge contact assembly removal

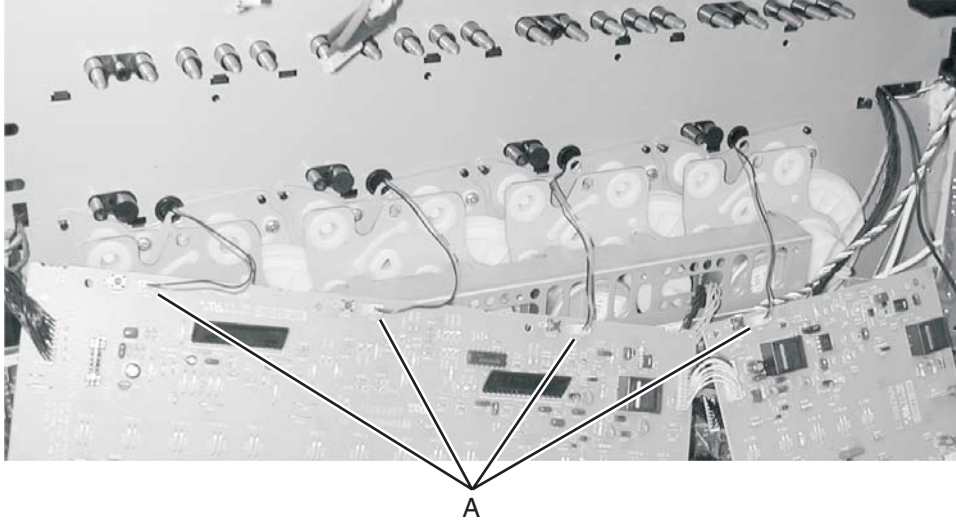
See **“Cartridge contact assembly”** on page 7-31 for the part numbers.

Warning: Do not remove the printhead unless instructed to do so.

1. Open the front cover.
2. Remove the toner cartridges.
3. Remove the ITU assembly. See **“ITU assembly removal”** on page 4-37.
4. Set aside the top cover assembly. It is not necessary to totally remove it. See **“Top cover assembly removal”** on page 4-5.
5. Remove the developer HVPS. See **“Developer HVPS board removal”** on page 4-28.

It is not necessary to remove the entire assembly unless you are removing the black cartridge contact assembly. If you are removing the yellow, cyan, or magenta cartridge contact assemblies, remove only the large portion of the developer HVPS board.

6. Disconnect the signature button cable (A) from the developer HVPS board for the cartridge contact assembly you are removing.

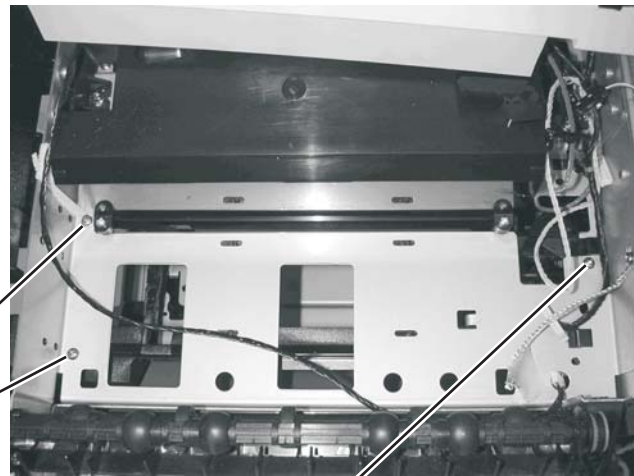


7. Remove the three mounting screws from the cartridge rail screws in the front (B) and one from the rear (C) and remove the rail of the selected cartridge assembly (yellow shown).

Warning: When removing the black, cyan, or magenta cartridge rails it is necessary to remove the appropriate printhead assembly. Before you can remove the cartridge rail screws, scribe the location of the printhead on the frame before removing the printhead. This will help put the printhead back in the previous location. If a printhead alignment problem develops, go to **“Printhead removal and adjustment” on page 4-50.**

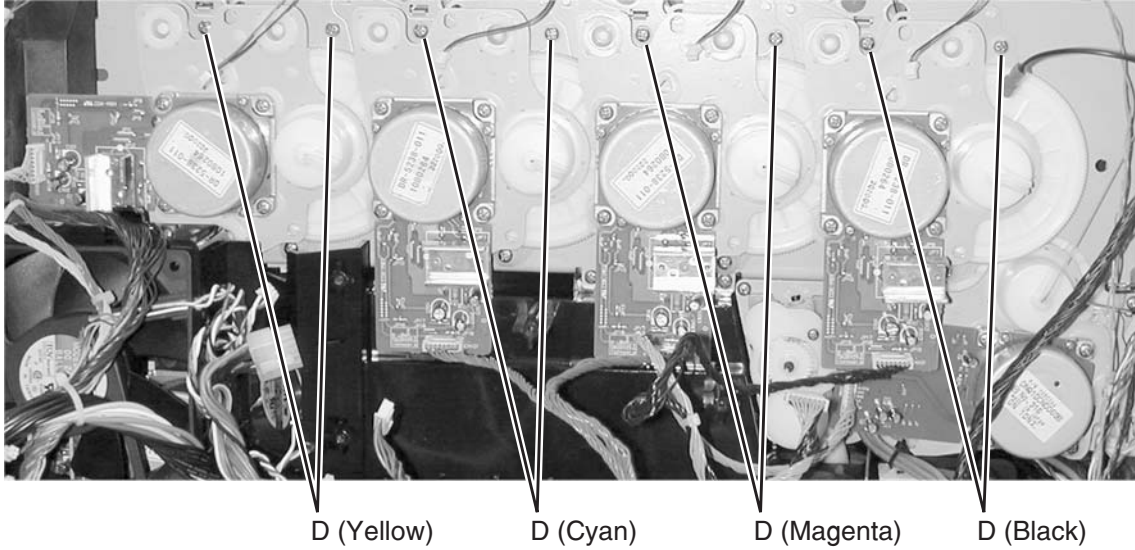


B

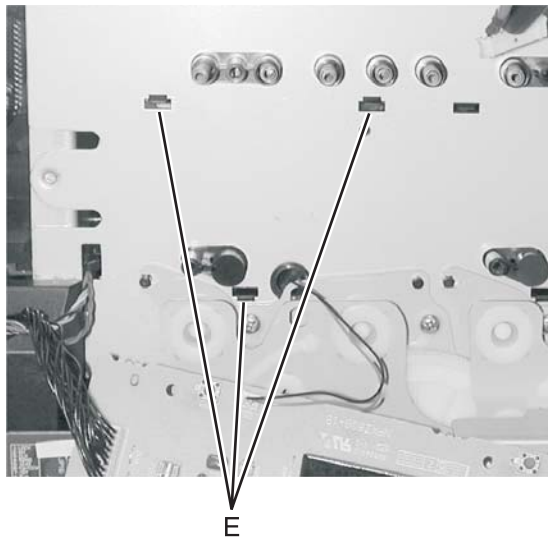


C

8. Remove the two upper screws (D) that mount each cartridge drive motor and the cartridge contact assembly to the upper frame for the cartridge contact assembly you want to remove.



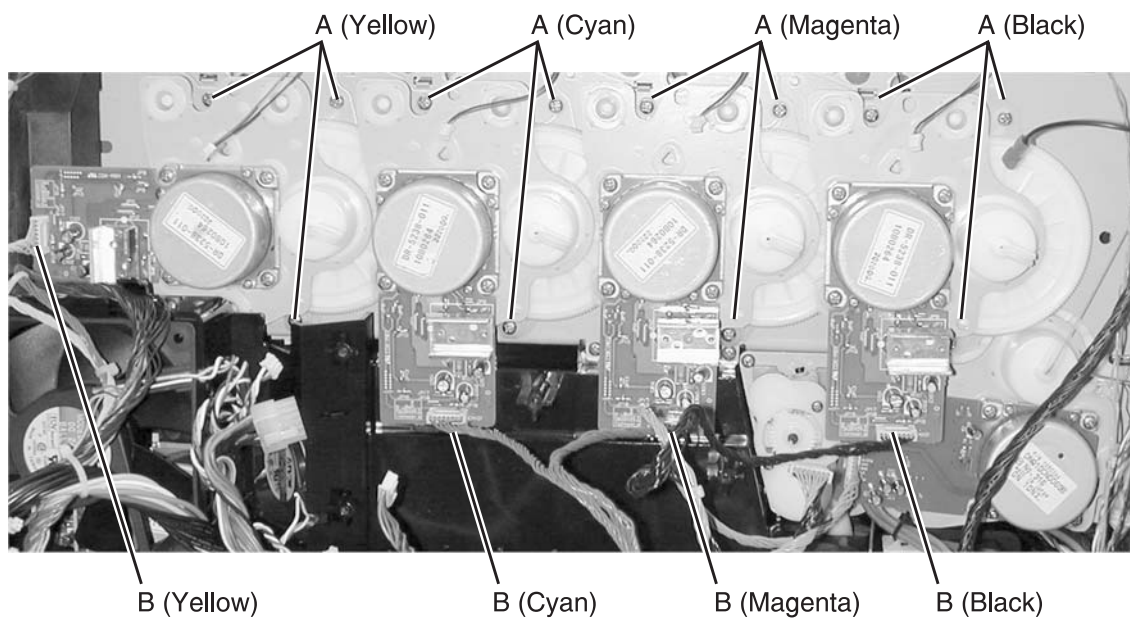
9. Press the three cartridge contact assembly retaining tabs (E) and remove the assembly.



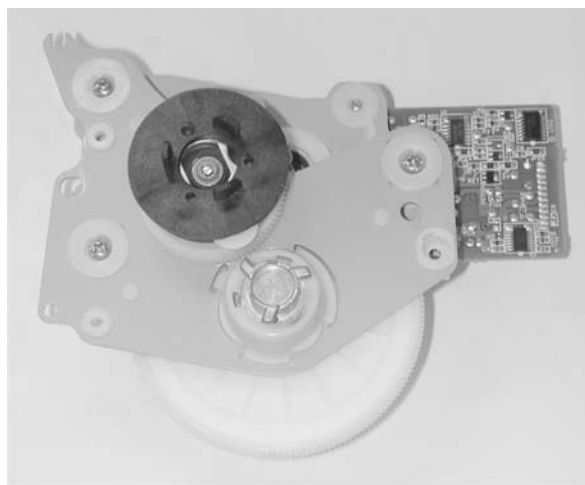
Cartridge drive assembly removal

See **“Cartridge drive assembly, cyan/magenta/black”** for the part number.

1. Remove the RIP board shield assembly. See **“RIP board shield assembly removal”** on page 4-71.
2. Remove the engine board. See **“Engine board removal”** on page 4-29.
3. Remove the three cartridge drive assembly mounting screws (A) for the cartridge drive assembly you want to remove.
4. Disconnect the cable (B) from the cartridge drive assembly.



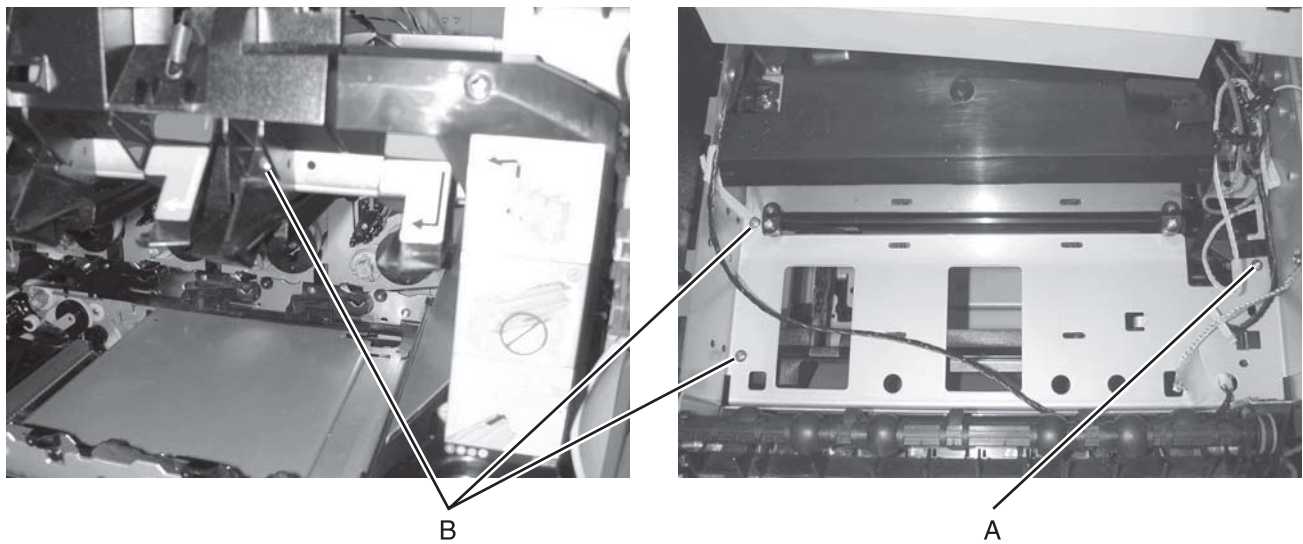
5. Remove the cartridge drive assembly.



Cartridge rail assembly

1. Open the front cover.
2. Remove the toner cartridges.
3. Remove the ITU assembly. See **"ITU assembly removal" on page 4-37**.
4. Set aside the top cover assembly. It is not necessary to totally remove it. See **"Top cover assembly removal" on page 4-5**.
5. Remove the developer HVPS. See **"Developer HVPS board removal" on page 4-28**.
It is not necessary to remove the entire assembly unless you are removing the black cartridge rail. If you are removing the yellow, cyan, or magenta cartridge rails, remove only the large portion of the developer HVPS board.
6. Remove the three mounting screws in the cartridge rail in the front (A) and one from the rear (B) and remove the rail of the selected cartridge assembly (yellow shown).

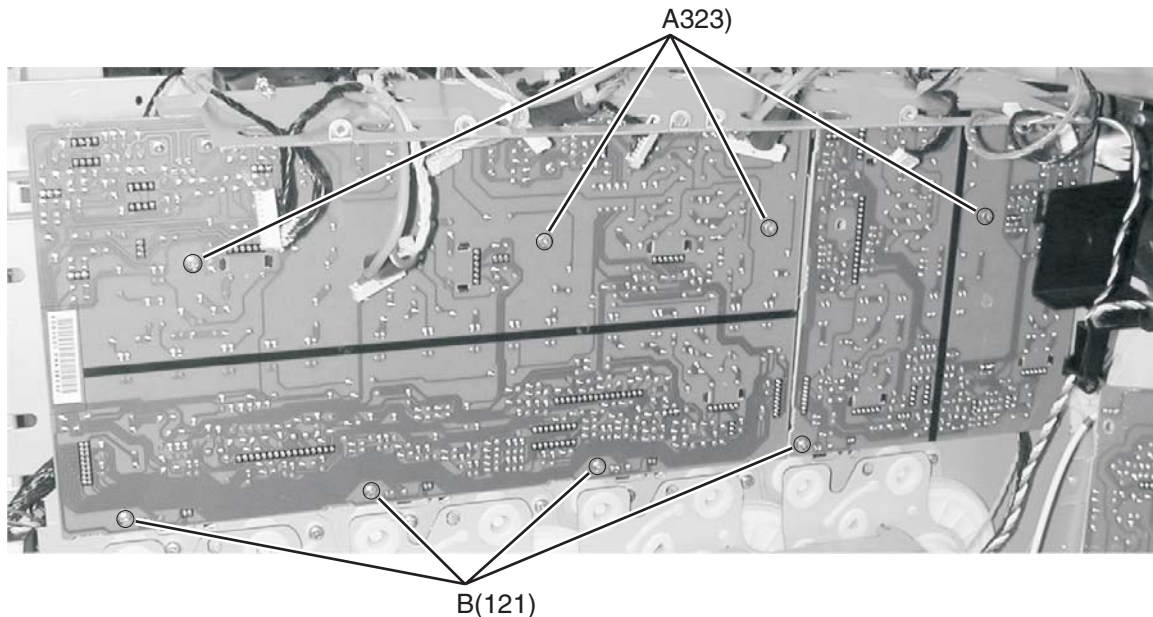
Warning: When removing the black, cyan, or magenta cartridge rails it is necessary to remove the appropriate printhead assembly. Before you can remove the cartridge rail screws, scribe the location of the printhead on the frame before removing the printhead. This will help put the printhead back in the previous location. If a printhead alignment problem develops, go to **"Printhead removal and adjustment" on page 4-50**



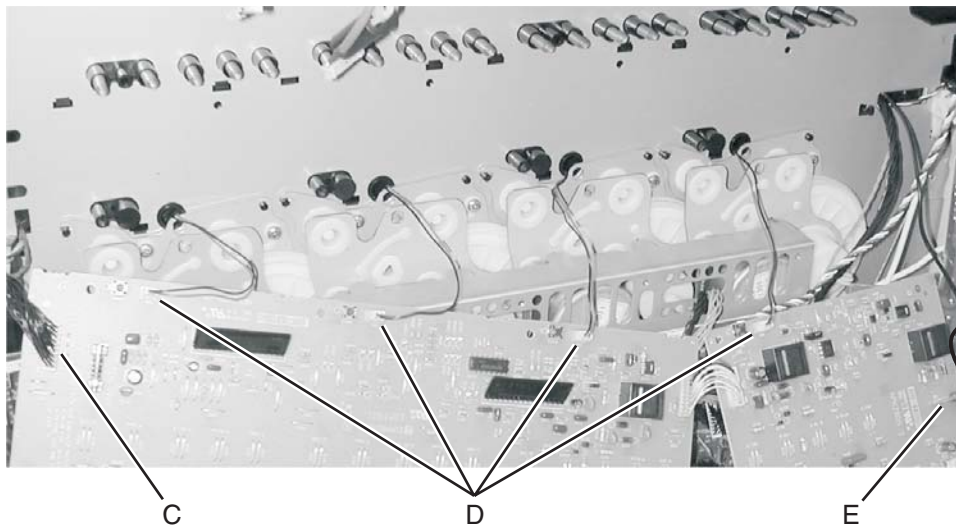
Developer HVPS board removal

See **“Developer HVPS board”** on page 7-38 for the part number.

1. Remove the RIP board shield assembly. See **“RIP board shield assembly removal”** on page 4-71.
2. Remove the four screws type **“323”** (A) and four screws type **“121”** (B) that mount the developer HVPS board.



3. Disconnect the HVPS to RIP board cable (C), the cartridge signature button cables (D) and the doctor blade cable (E) from the developer HVPS board and remove the board.



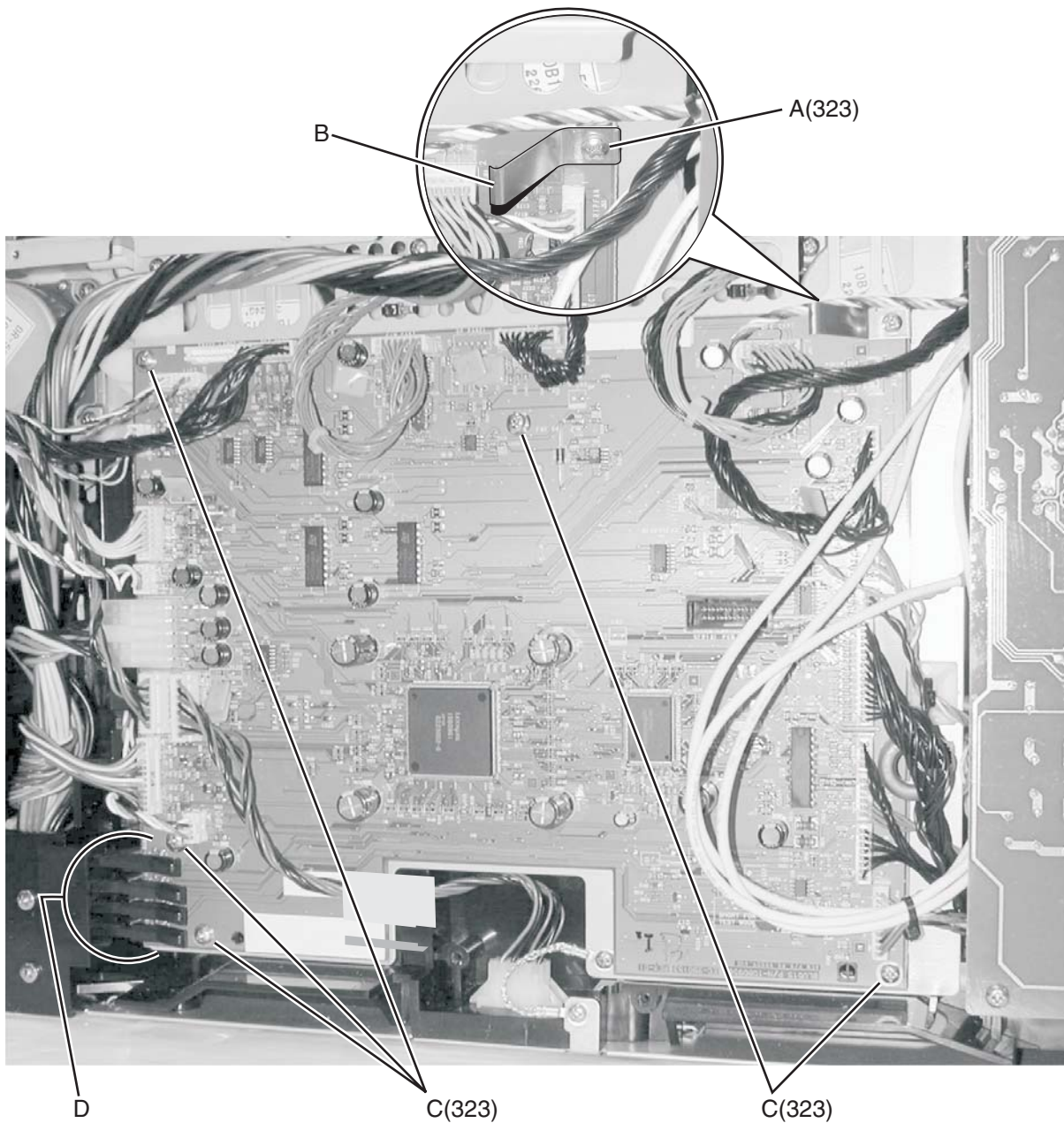
Installation note:

1. Disconnect the cable between boards.
2. Install the large board by attaching the bottom screws loosely, attach the top screws, then tighten the bottom screws.
3. Connect the boards
4. Install the small board in the same manner as the large board.

Engine board removal

See **"Engine board"** on page 7-39 for the part number.

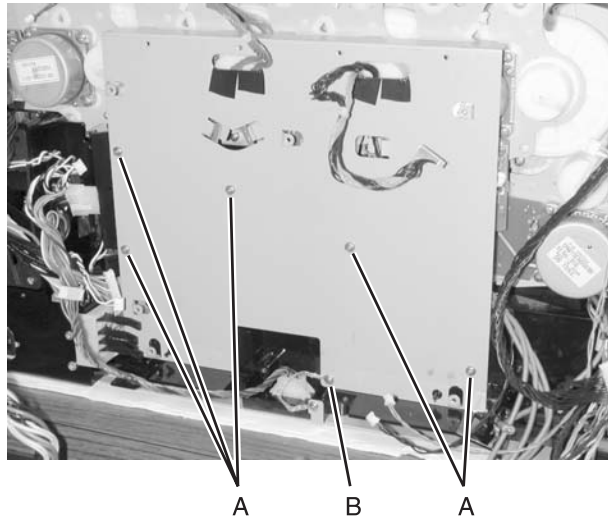
1. Remove the rear fan cover. See **"Rear fan cover removal"** on page 4-8.
2. Remove the rear cover. See **"Rear cover removal"** on page 4-8.
3. Disconnect all cables from the engine board.
4. Remove the screw **"323"** (A) holding the grounding clip (B) and remove the clip.
5. Remove the engine board screw type **"323"** (C) and remove the engine board.
6. Remove the engine board. Be careful not to damage the paper size switches and actuators (D).



Engine board shield removal

See **“Engine board shield”** on page 7-39 for the part number.

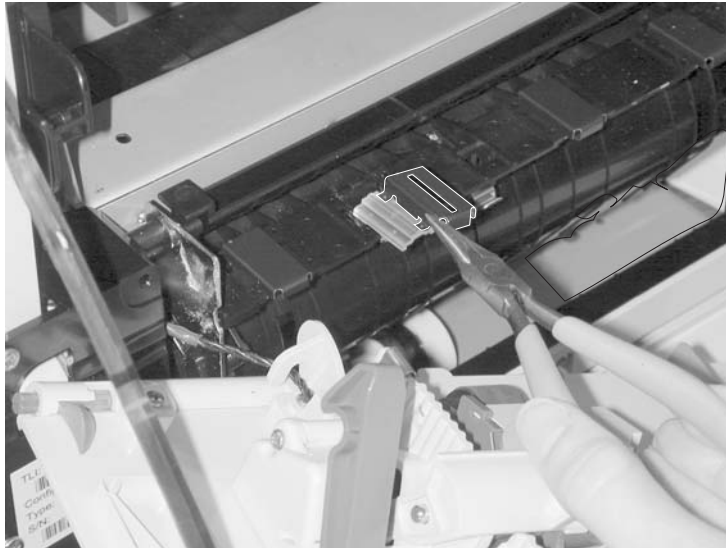
1. Remove the RIP board shield assembly. See **“RIP board shield assembly removal”** on page 4-71.
2. Remove the engine board. See **“Engine board removal”** on page 4-29.
3. Remove the engine board shield screw type **“323”** (A), screw type **“232”** (B), and remove the shield.



Friction buckler removal

See **“Friction buckler”** on page 7-21 for the part number.

1. Press the multipurpose feeder (MPF) latch to disconnect the MPF.
2. Use needlenose pliers to remove the buckler housing.



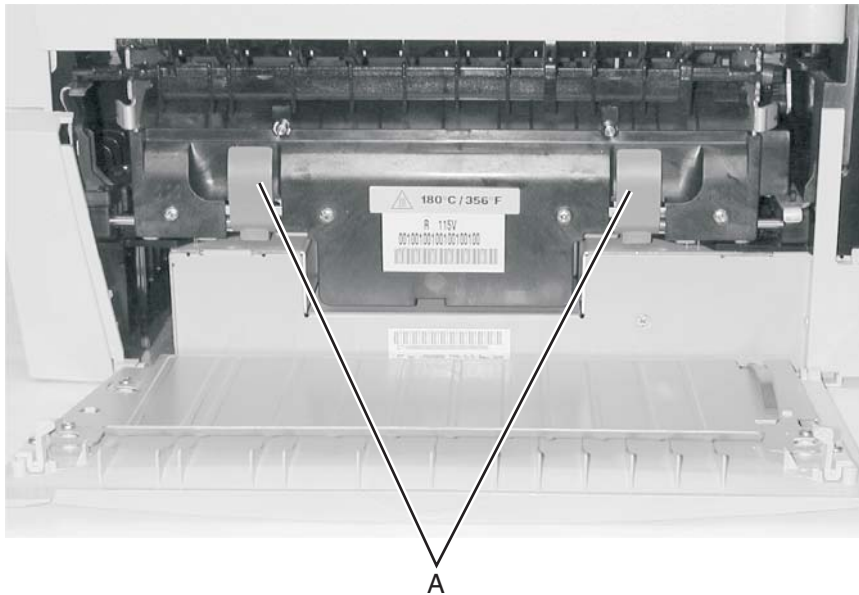
3. Replace the friction buckler.

Fuser assembly removal

CAUTION: Be sure the fuser assembly has cooled before you remove it.

See **“Fuser assembly 115V 500W” on page 7-9** or **“Fuser assembly 220V 500W” on page 7-9** for the part numbers.

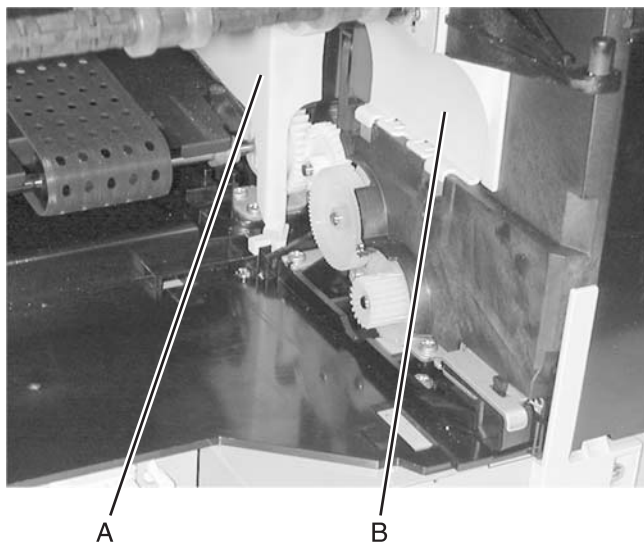
1. Open the lower right door assembly.
2. Unlatch the two fuser latches (A).
3. Remove the fuser assembly.



Fuser bottom duct removal

See **“Fuser bottom duct” on page 7-5** for the part number.

1. Remove **“Fuser assembly removal” on page 4-31**.
2. Remove **“Fuser top duct removal” on page 4-34**.
3. Remove the redrive belt cover duct (A).
4. Remove fuser left duct (B).

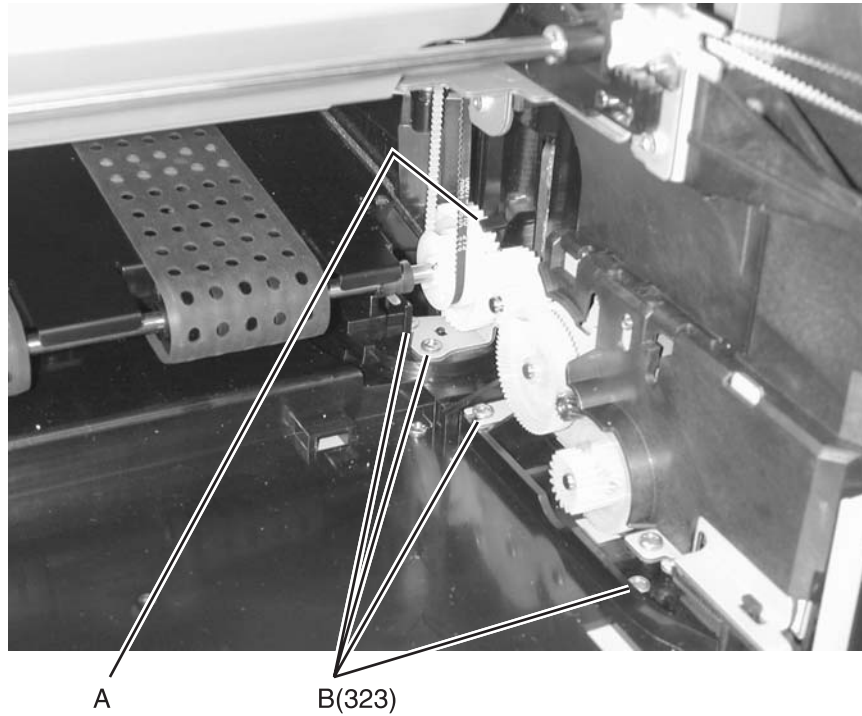


5. Remove fuser bottom duct.

Fuser drive assembly removal

See **"Fuser drive assembly w/motor"** on page 7-12 for the part number.

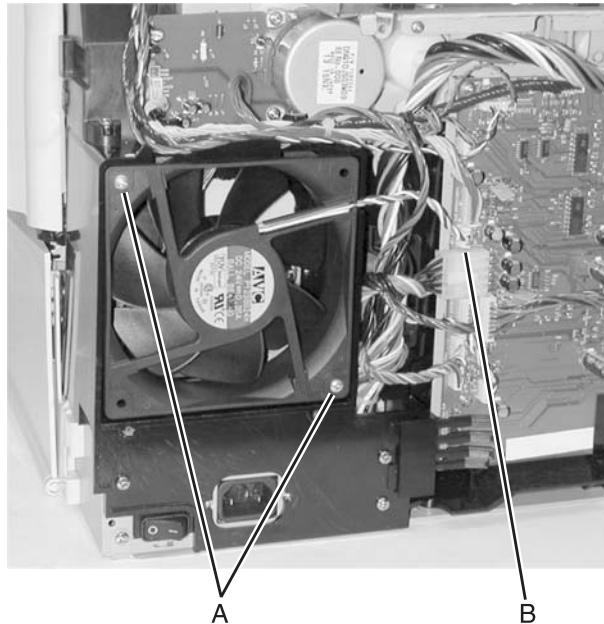
1. Remove **"Fuser bottom duct removal"** on page 4-32.
2. Swing lever (A) and disengage VTB shaft.
3. Remove the fuser drive assembly screws (A) type **"323"** on page 4-3 and remove the assembly.



Fuser fan removal

See **“Fuser fan” on page 7-41** for the part number.

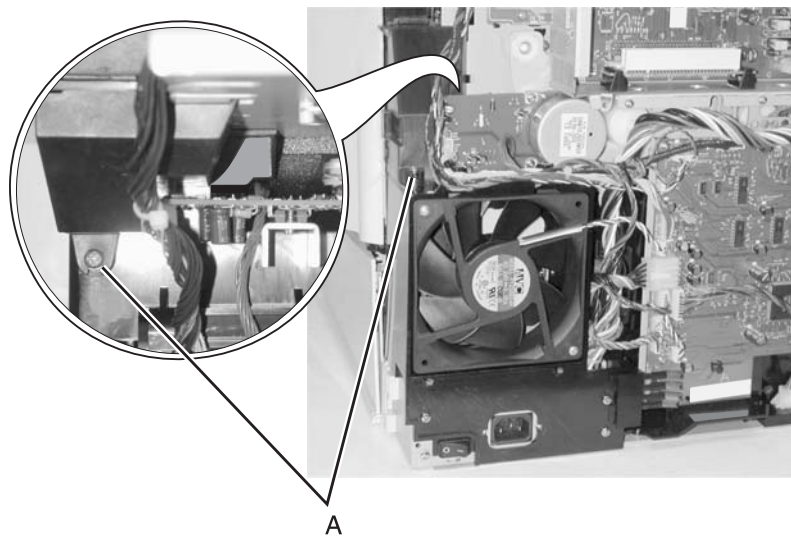
1. Remove the rear fan cover. See **“Rear fan cover removal” on page 4-8**.
2. Disconnect the fuser fan cable from connector J2 (B) on the engine board.
3. Remove the fuser fan screws (A), part number 12G6529 and remove the fan.



Fuser top duct removal

See **“Fuser top duct” on page 7-5** for the part number.

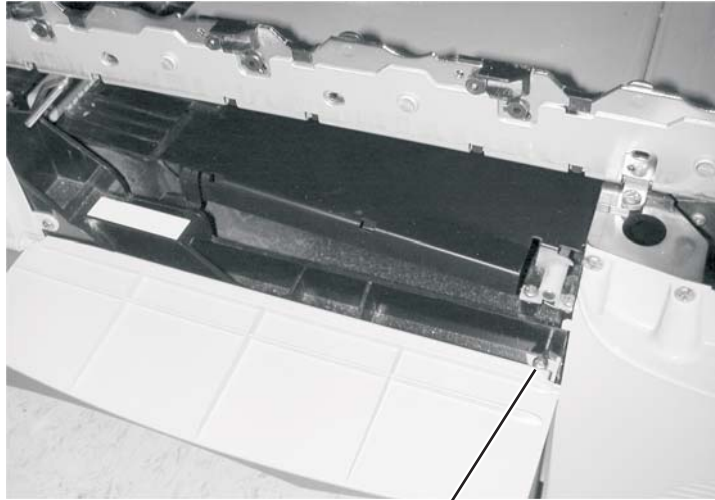
1. Remove the rear fan cover. See **“Rear fan cover removal” on page 4-8**.
2. Remove the fuser top duct screw type **“323” (A)** and remove the top duct.



Fuser web oiler motor assembly removal

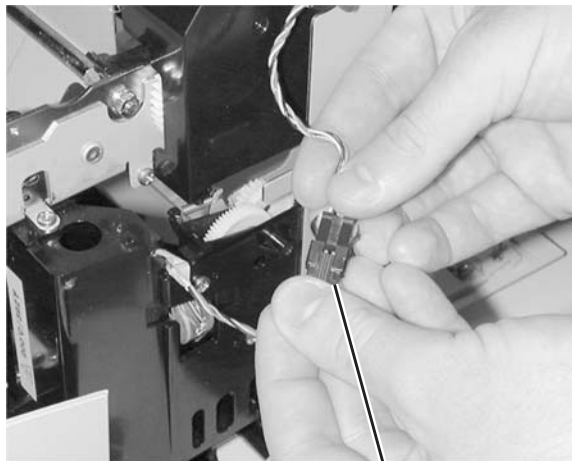
See **“Fuser assembly, web oiler 115V 500W”** on page 7-11 or **“Fuser assembly, web oiler 220V 500W”** on page 7-11 for the part number.

1. Remove the fuser top duct. See **“Fuser top duct removal”** on page 4-34.
2. Remove the paper path access door cover right mounting screw (A).



A

3. Remove the front right handle cover assembly. See **“Front right handle cover assembly removal”** on page 4-9.
4. Disconnect the web oiler motor assembly cable (A).

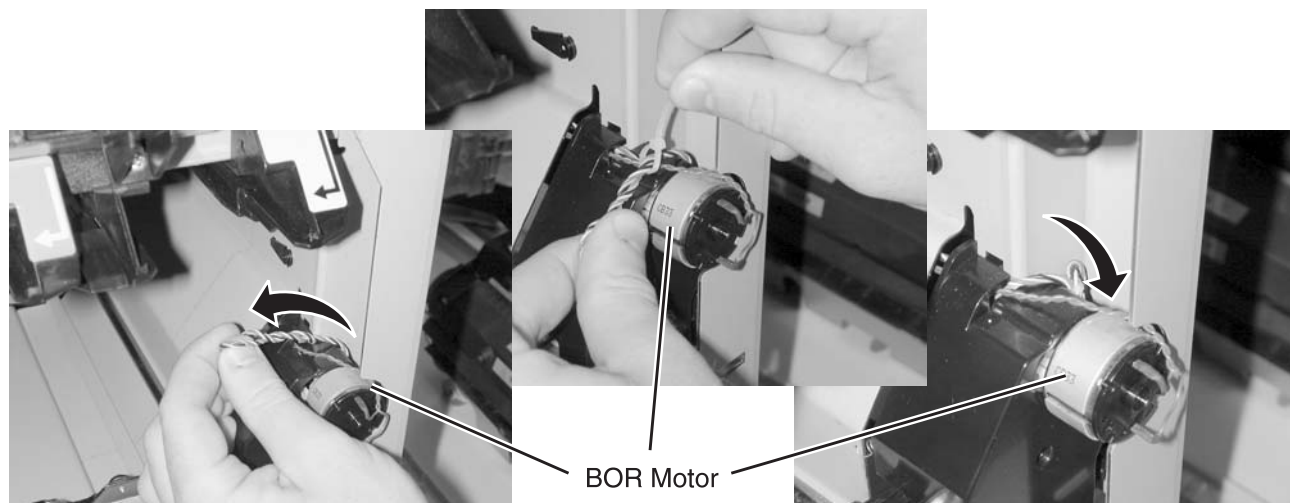


A

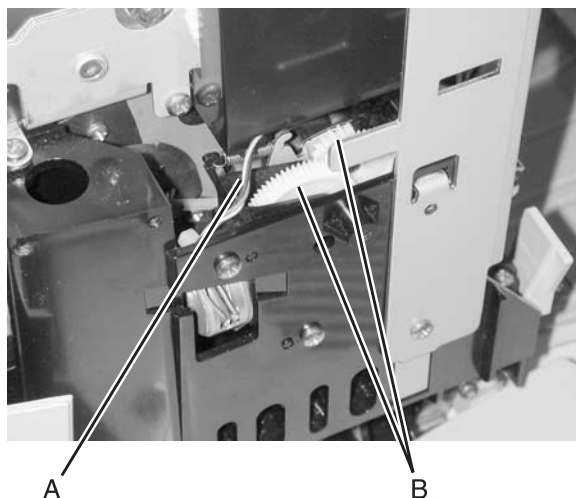
5. Remove the fuser web oiler motor assembly mounting screws and remove the assembly.

Installation notes

Note: When you reinstall the web oiler motor assembly, pull the excess cable, twist, install a cable tie, and route the cable down into the printer.



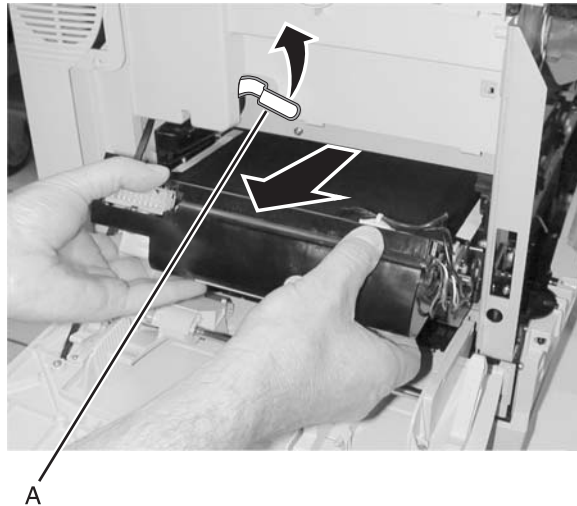
Note: Make sure the motor cable (A) is routed away from gears (B).



ITU assembly removal

See **"ITU assembly"** on page 7-25 for the part number.

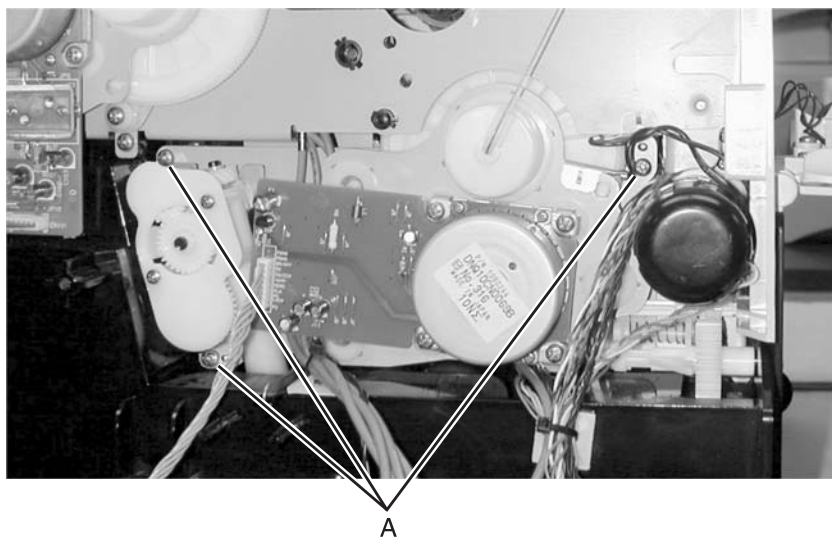
1. Open the front cover.
2. Remove the toner cartridges.
3. Open the MPF.
4. Raise the ITU release lever (A) and slide the ITU from the printer.



ITU drive assembly removal

See **"ITU motor drive assembly with SKC motor"** on page 7-27 for the part number.

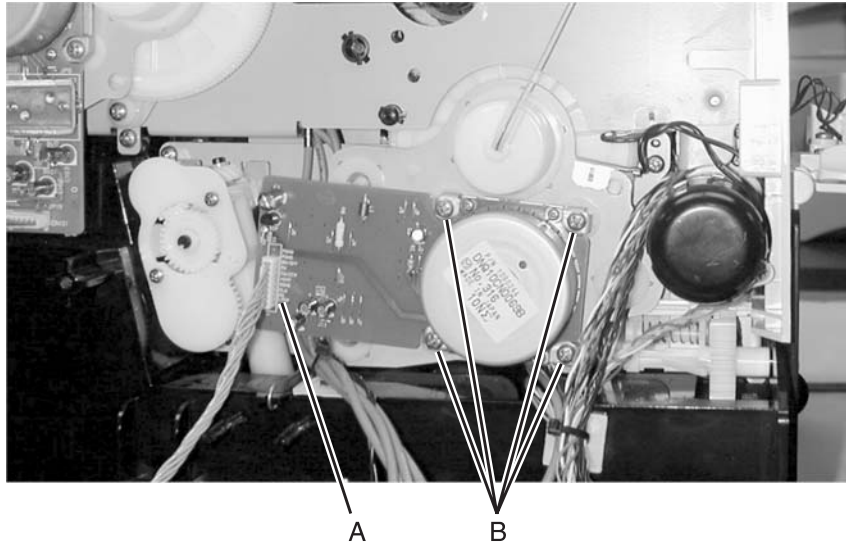
1. Remove the RIP board shield assembly. See **"RIP board shield assembly removal"** on page 4-71.
2. Remove the engine board shield. See **"Engine board shield removal"** on page 4-30.
3. Remove the ITU drive assembly mounting screws (A) and disconnect the cable.
4. Move the bottom of the ITU drive assembly toward you as you rotate the top of the assembly out of the printer. Be careful not to damage the large drive gear as you remove the ITU drive assembly.



ITU drive motor removal

See **"ITU drive motor, SKC"** on page 7-27 for the part number.

1. Remove the RIP board shield assembly. See **"RIP board shield assembly removal"** on page 4-71.
2. Remove the engine board shield. See **"Engine board shield removal"** on page 4-30.
3. Remove the ITU drive motor mounting screws (B), disconnect cable (A), and remove the assembly.

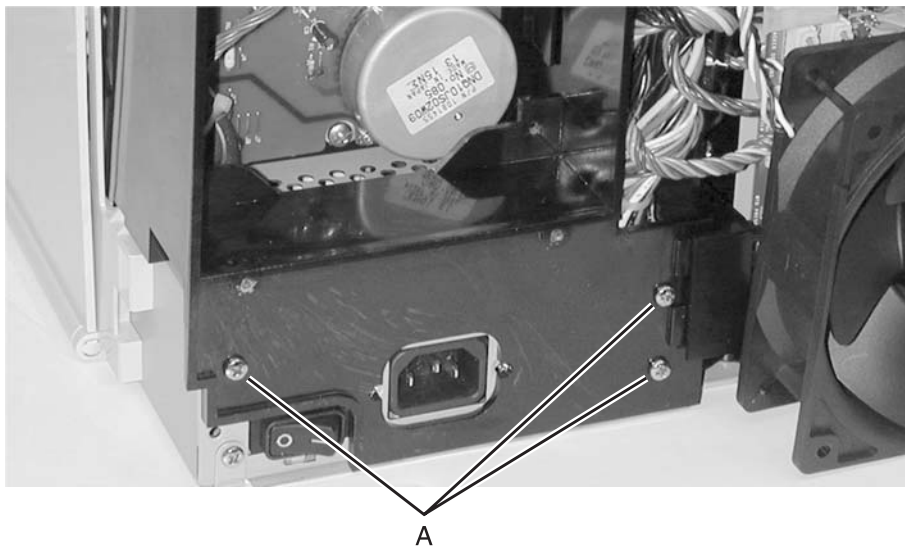


Low voltage power supply (LVPS) removal

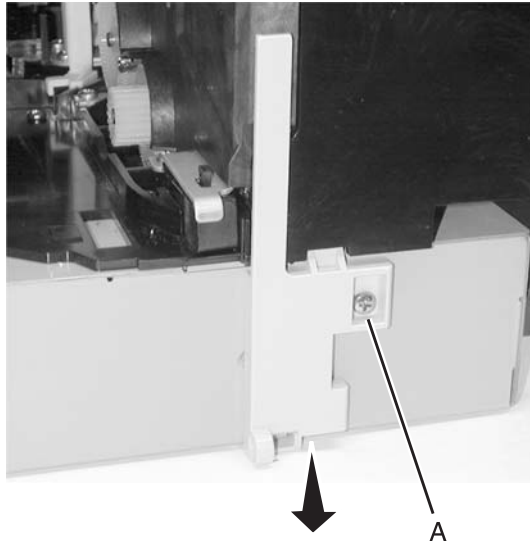


See **"LVPS, 115V"** on page 7-35 or **"LVPS, 220V"** on page 7-35 for the part number.

1. Remove the rear fan cover. See **"Rear fan cover removal"** on page 4-8.
2. Remove the fuser top duct. See **"Fuser top duct removal"** on page 4-34.
3. Remove the LVPS screw type **"121"** (A) from the rear of the printer.

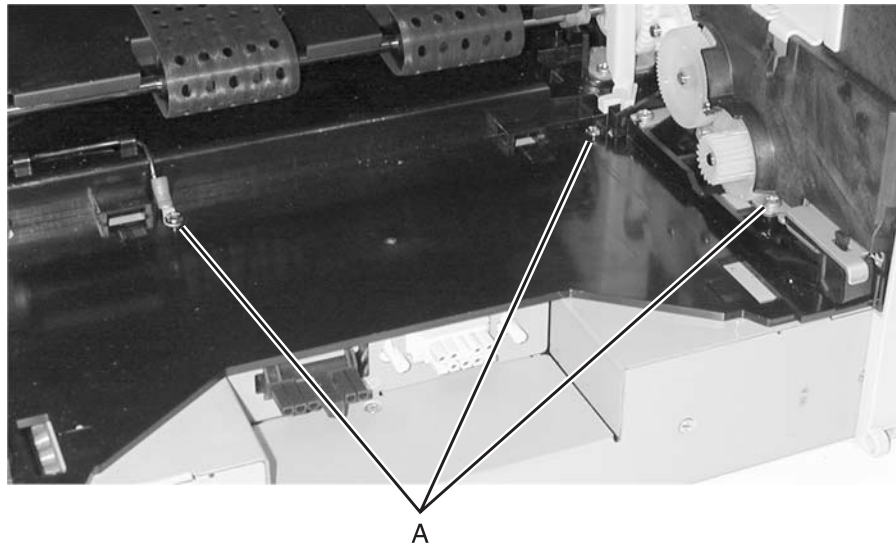


4. Remove the right rear cover screw type “121” (A).



5. Open the redrive cover and remove the screw type “121” (A) from the top of the LVPS and remove the LVPS from the printer.

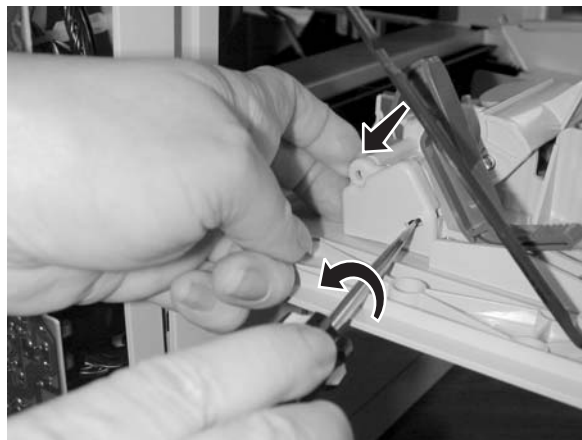
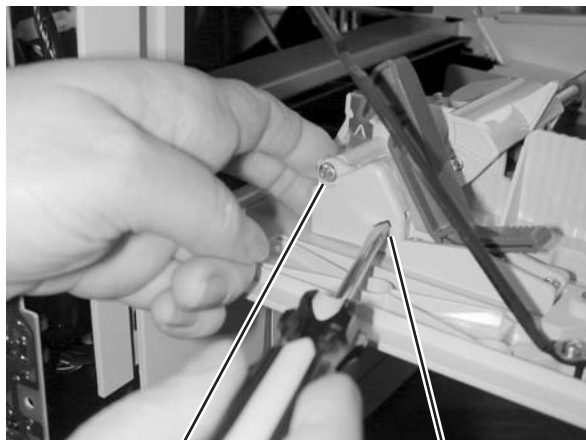
Note: Be sure to reinstall the ground strap when you replace the LVPS.



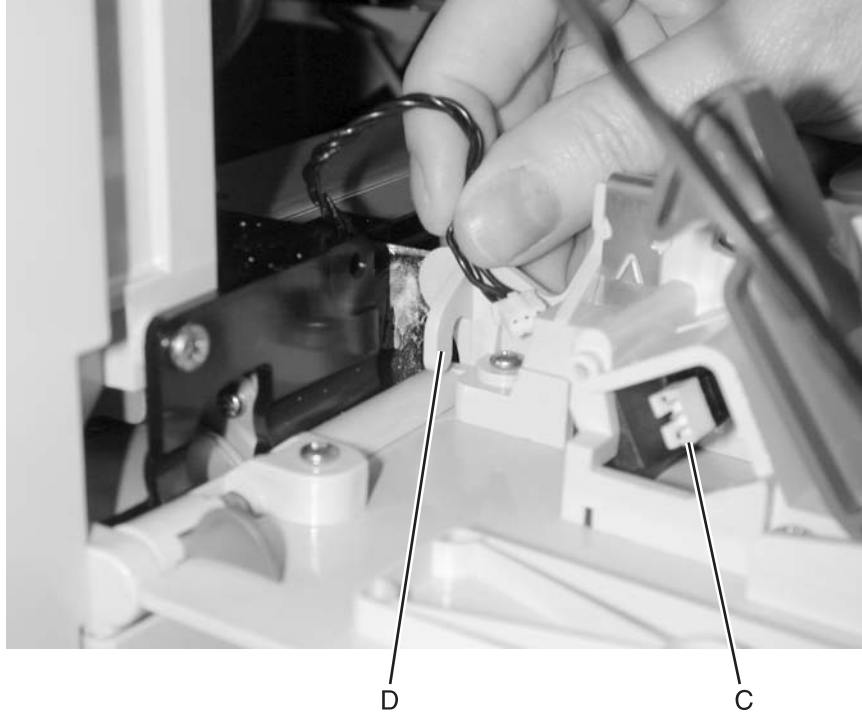
Multipurpose feeder (MPF) removal

See **“Multipurpose Feeder (MPF)”** on page 7-21 for the part number.

1. Open the MPF to the lowest position.
2. Remove the MPF cable cover screw (A).
3. Place flatblade screwdriver in the slot (B) on the MPF cable cover and gently pry open the cover.



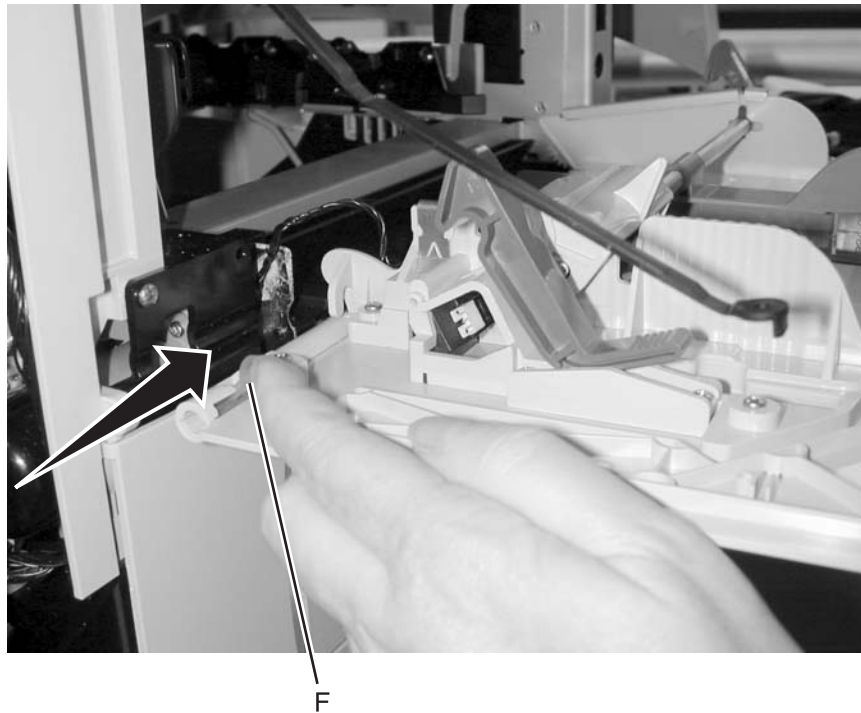
4. Disconnect the MPF switch cable from the MPF sensor (C).
5. Pull the MPF cable free of the enclosure and out from under the cable retainer (D).



6. Remove the MPF strap screw (E) type **"412"** on page 4-4.



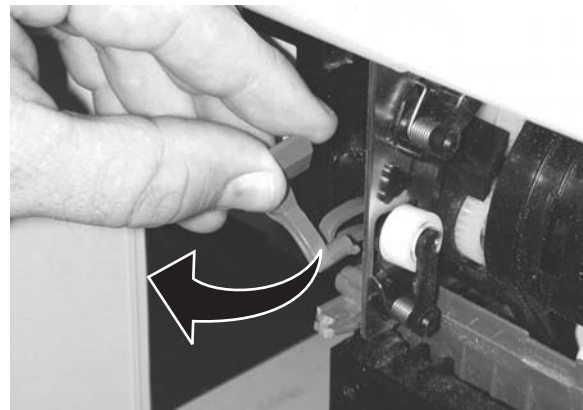
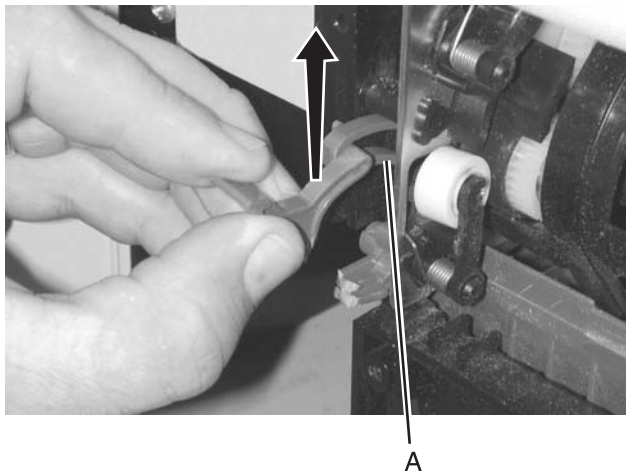
7. Release the MPF latch (F) and remove the MPF.



Nip relief handle removal

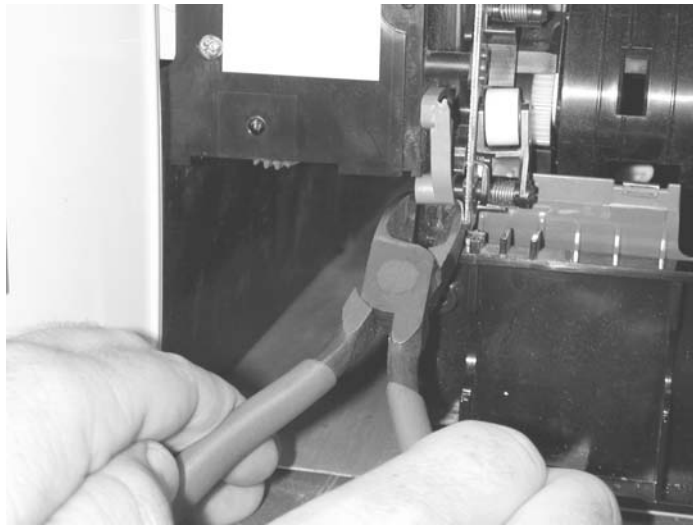
See **“Nip relief handle” on page 7-19** for the part number.

1. Remove lower left side covers to gain access to the nip relief handle.
2. Remove waste toner container.
3. Reinsert paper tray into printer.
If any fragments fall into the printer they should land in the paper tray and be easy to remove.
4. Remove the broken pieces of old nip relief handle.
 - a. Pull up the upper piece of handle to raise the nip relief link (A) and rotate the upper piece of handle 90° clockwise to free it from the link (A).

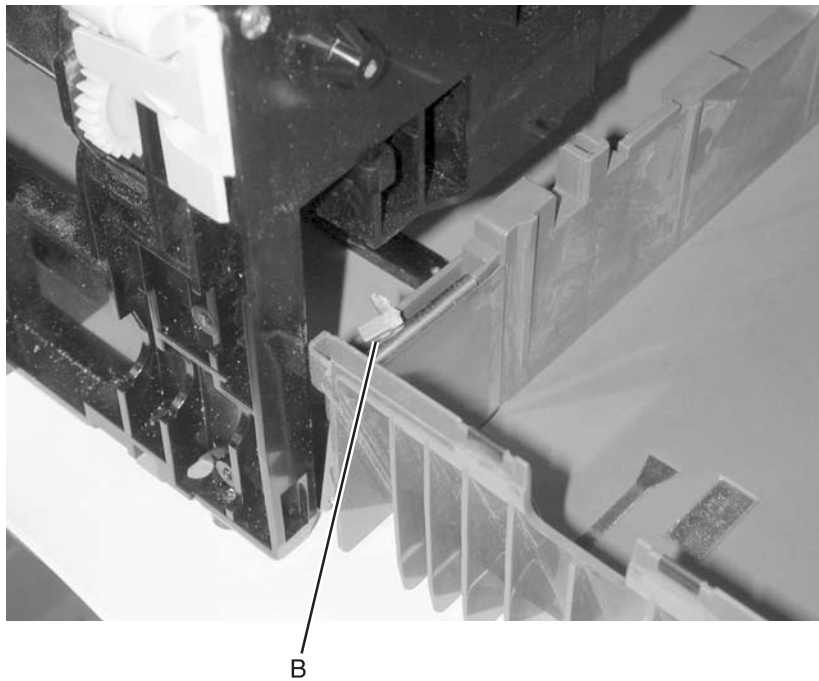


- b. Using a side cutter, cut the lower piece of the handle free from the post.

Some scarring of the post is expected, but be careful not to damage the post.

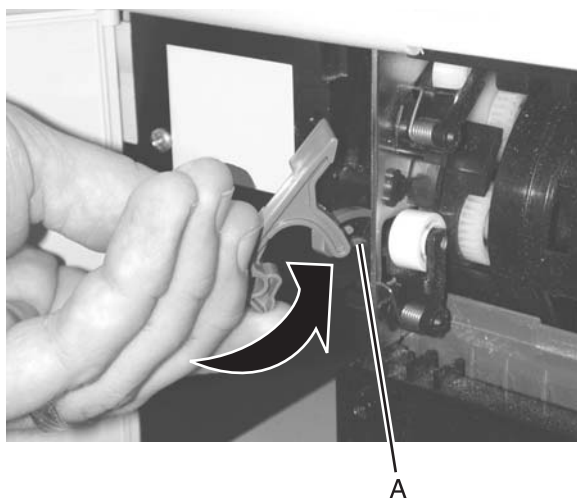


- C.** Remove any remnants of the handle.
Check the paper tray to check for debris. For example, see the fragment (B) in the following picture.

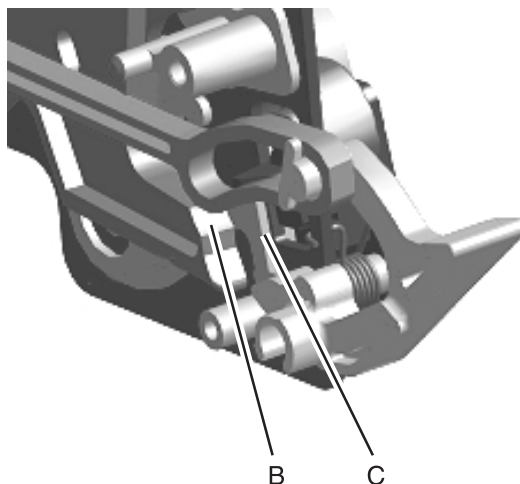
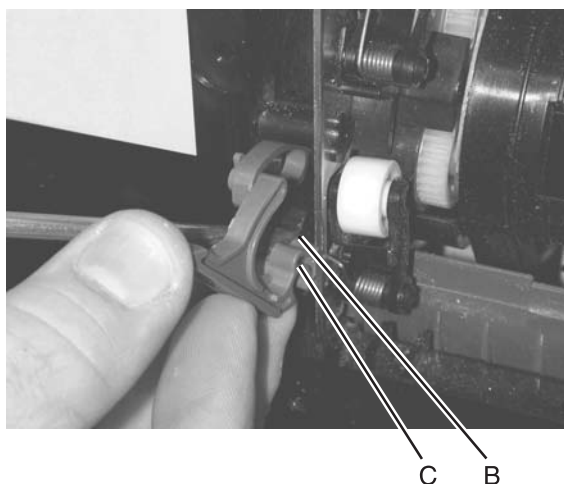


Installation notes:

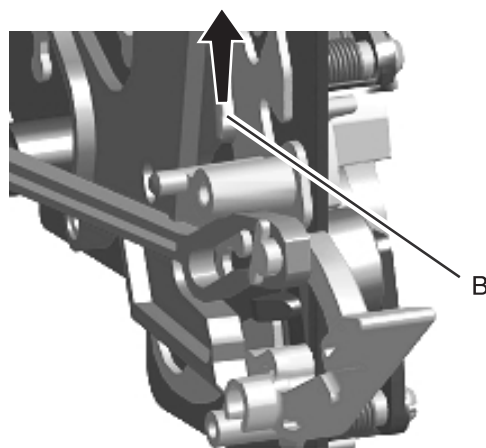
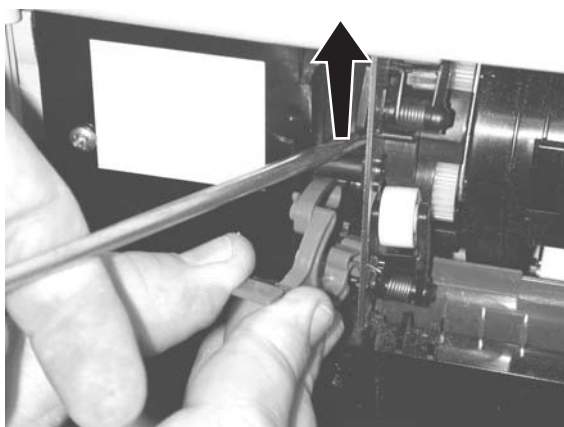
1. Rotate the new nip relief handle into place to connect it to the nip relief link (A).



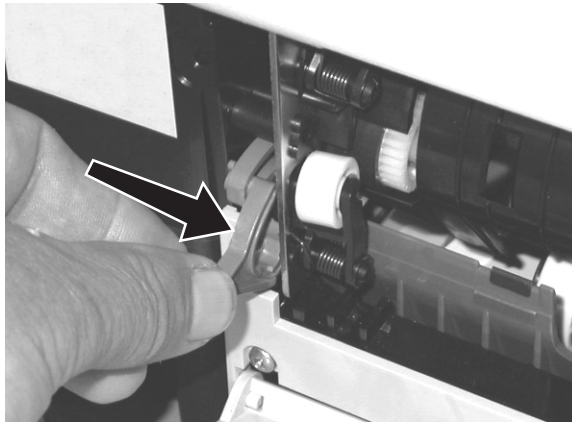
2. Using a screwdriver, gently pry the nip relief lever (B) towards the rear of the machine and insert lower portion of handle so that it is trapped between the lever and the reference edge plate (C).



3. Holding the nip relief handle in place, use a flathead screwdriver to gently pry up on the top portion of the lever allowing the handle to press into place onto the post using moderate force.



4. Once the handle snaps onto the post, press the upper portion of the handle to the right and rotate the handle into its home position.
This seats the nip relief lever into the correct position.



5. Check for proper operation.
6. Install the waste toner container.
7. Replace the covers.

Operator panel removal

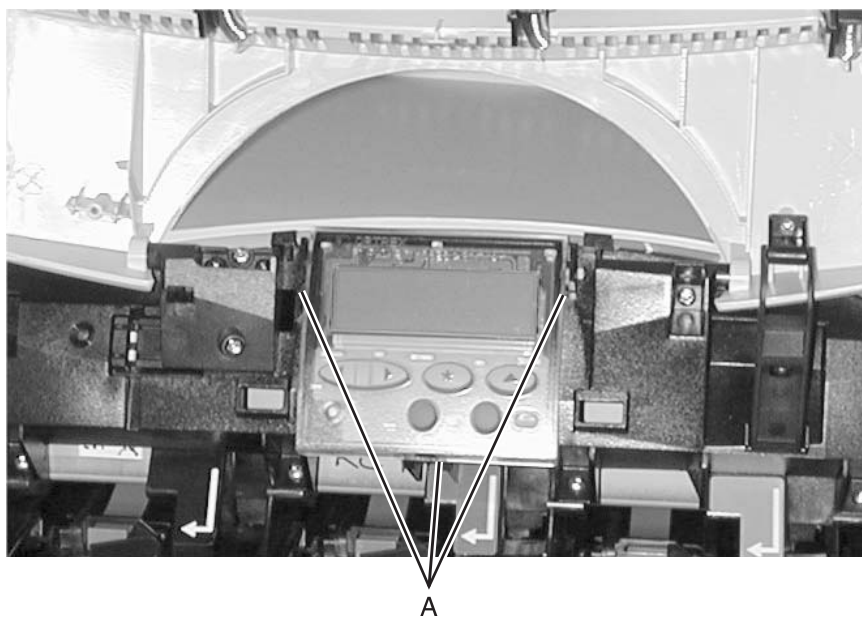
See **“Operator panel assembly, low volt”** on page 7-3 or **“Operator panel assembly, high volt”** on page 7-3 for the part number.

1. Remove the operator panel bezel.

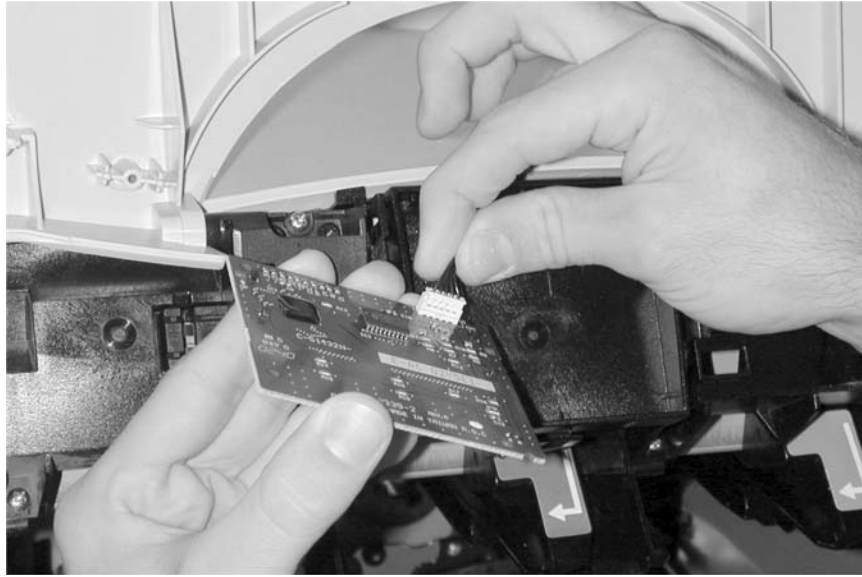


Bezel

2. Unlatch the operator panel latches (A).

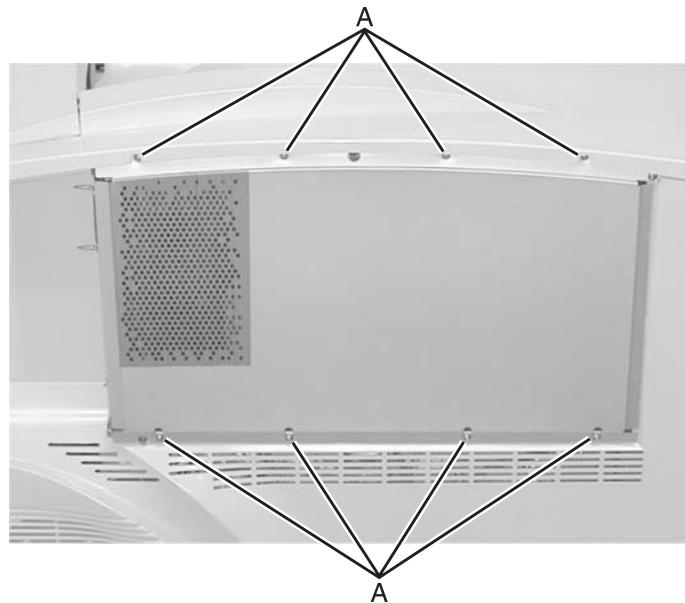


3. Disconnect the operator panel cable from the operator panel and remove the operator panel.



Outer EMC shield removal

Loosen screw type “232” (A) and lift the outer EMC shield from the printer.

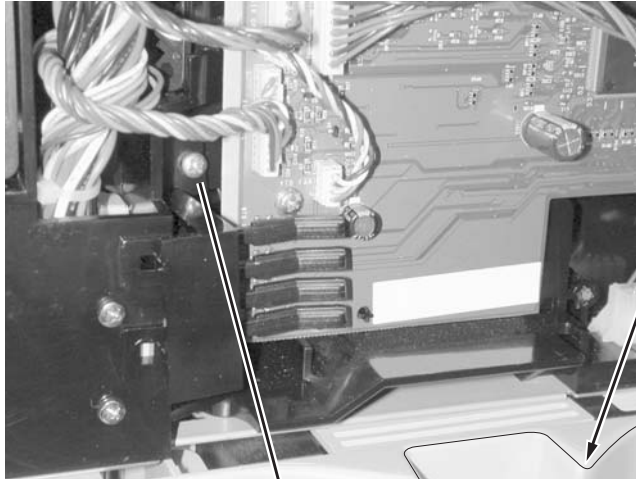


Paper size sensing assembly removal

See **"Paper size sensing assembly" on page 7-57** for the part number.

Note: The paper size sensing assembly contains components that easily fall apart as you remove the assembly. Be careful not to lose any of the components.

1. Remove the rear cover. See **"Rear cover removal" on page 4-8**.
2. Remove the rear fan cover. See **"Rear fan cover removal" on page 4-8**.
3. Remove the engine board shield. See **"Engine board shield removal" on page 4-30**.
4. Open the waste toner container door and slide the container out.
5. Remove the paper size sensor assembly screw type **"323" on page 4-3 (A)**.



A



Pick rolls

See **"Pick rolls (2 each per package)" on page 7-24** for the part number.

Front roll

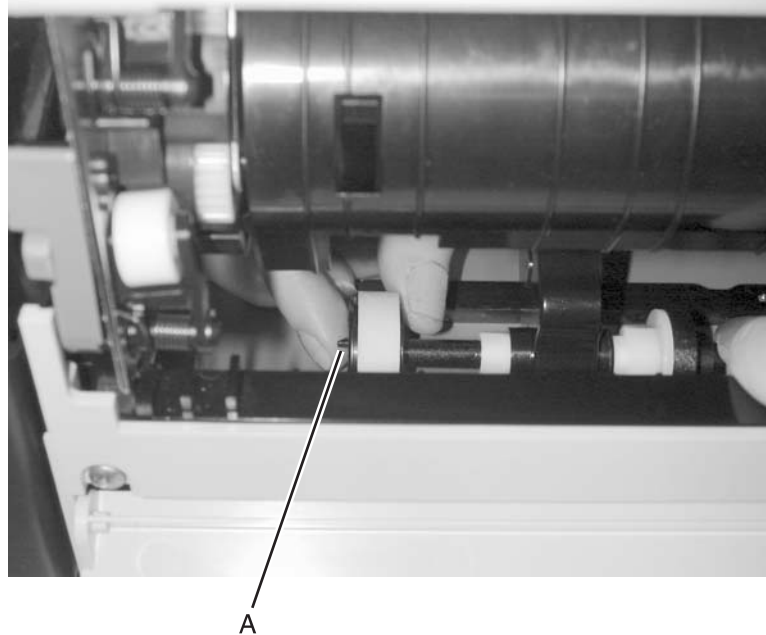
1. Wipe any toner or debris from the bottom pan to avoid contaminating the pick tires.
2. Pull the pick assembly down into the bottom pan and press the latch to remove the tire.



Note: Do not attempt to remove either the shaft or the clutch races.

Rear roll

Reach around and depress the latch (A) on the side of the shaft and remove the tire.



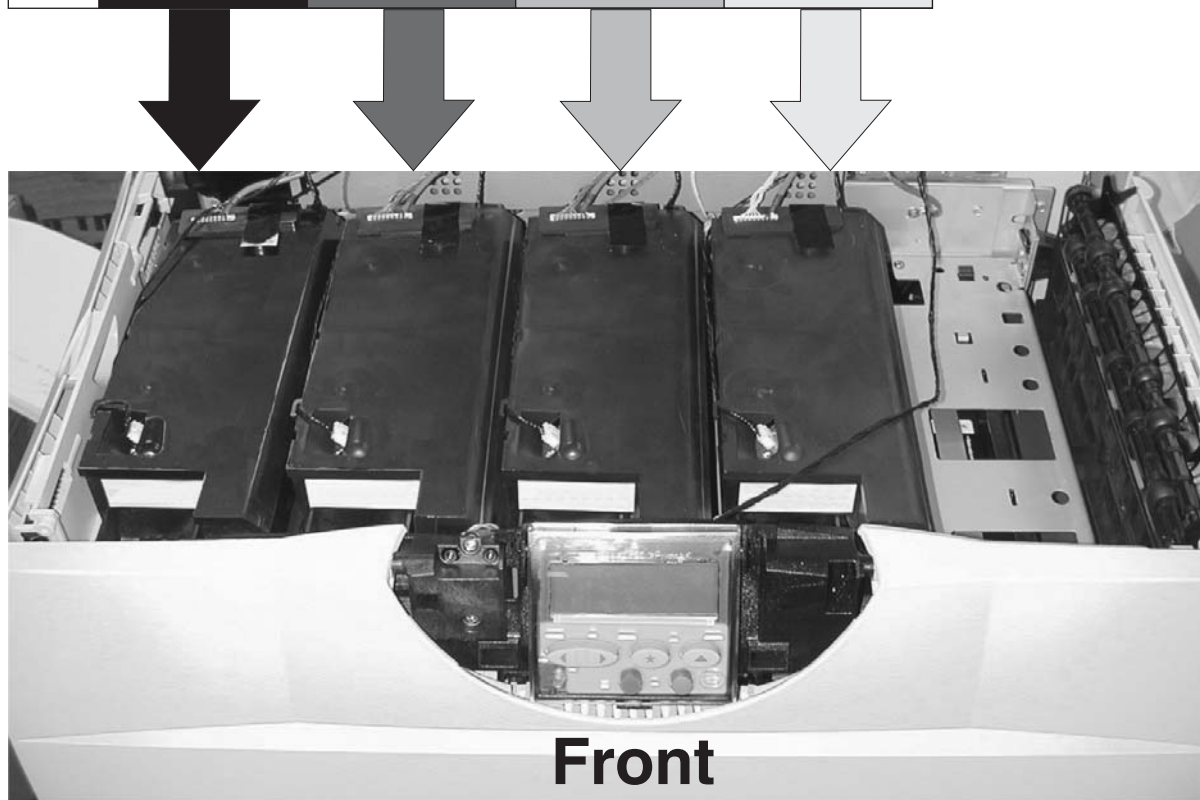
Installation notes:

- Replace both rollers at the same time.
- When you replace the front roller, make sure the roller is pressed against the shaft and the screw is fastened all the way down.
- When replacing both the front and back rollers, note the directional markings on the rollers and make sure the same narrow hub caps are facing each other. Check to see if the rollers turn freely.
- The autocompensator pick rolls are located in the base machine. There are also rollers in all tray options. If you have additional trays beneath your printer, check the condition of these rollers when you replace the rollers in your printer.

Printhead removal and adjustment

See “Printhead assembly” on [page 15](#) for the part numbers.

	Black (K)	Magenta (M)	Cyan (C)	Yellow (Y)
Printhead error codes	109	107	106	108
	114	116	115	117
	169	173	171	175
	170	174	172	176



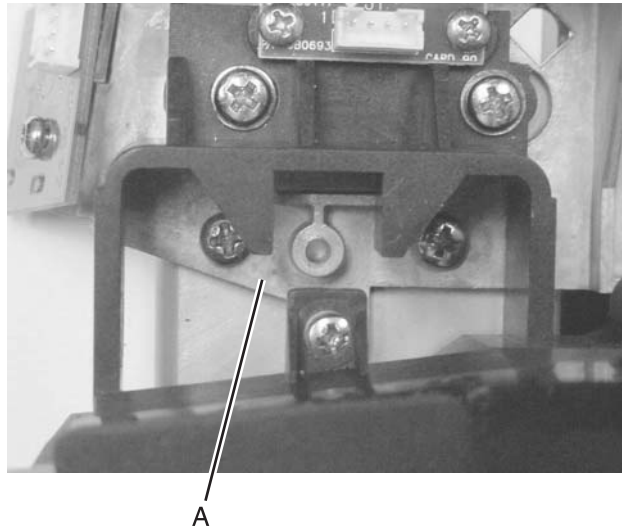
Warnings:

- Do not loosen or replace more than one printhead at a time to retain factory settings.
- Whenever a printhead is replaced, you must to perform the **“Printhead mechanical alignment”** on [page 4-51](#) and **“Electronic color alignment”** on [page 4-58](#).
- The front cover must be installed and closed before any printhead alignment can be performed. It is not necessary to remove the front cover to access the printheads.
- If there is a protective lens cover on the new printhead, it must be removed before installing the replacement printhead.

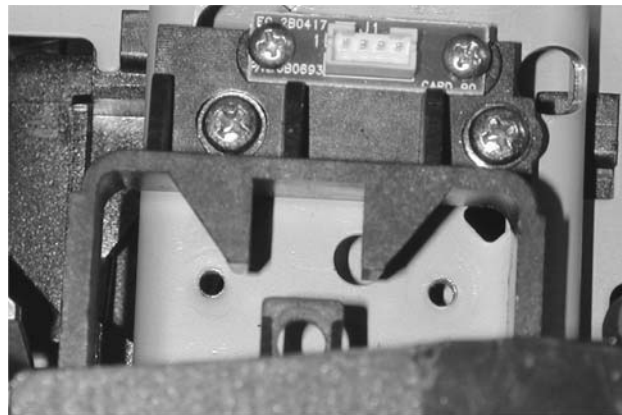
Printhead mechanical alignment

1. Identify the configuration of your printer. The following steps are similar for both versions, except you need to remove two extra screws when you have the PSD bracket.

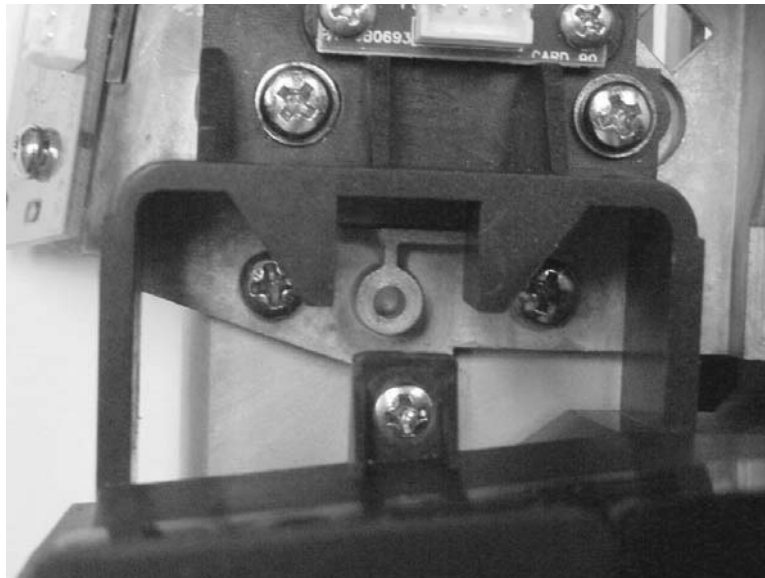
You may have a PSD bracket (A), whether or not the PSD or thermistor is connected.



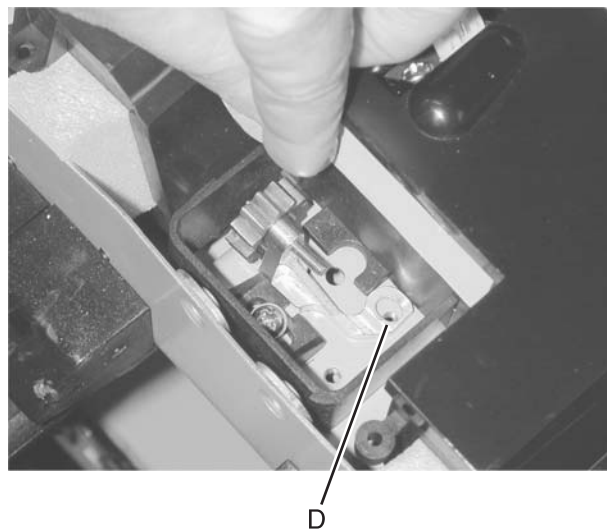
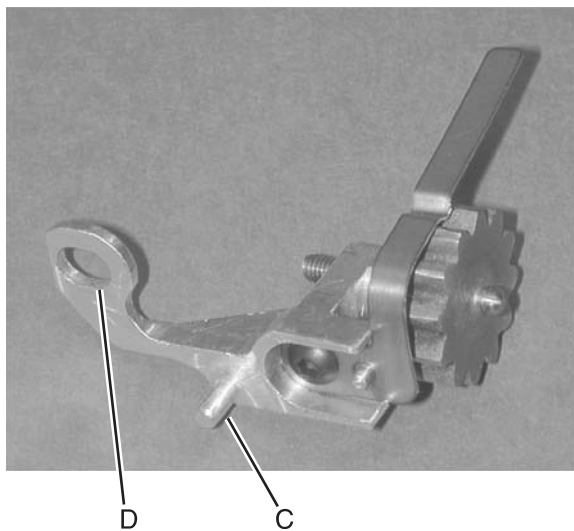
You may not have a bracket.



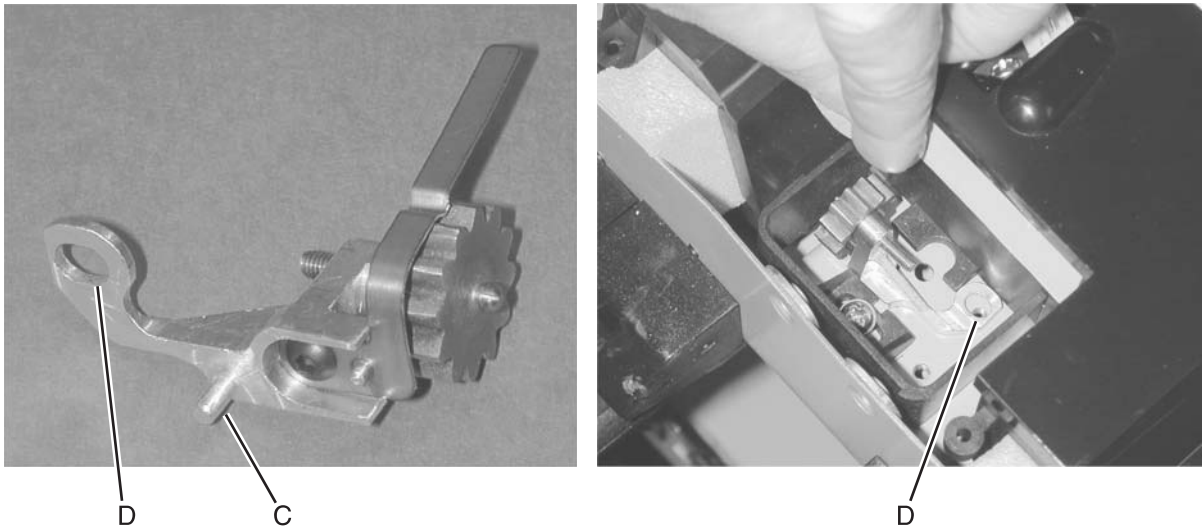
2. Insert the first printhead alignment tool.
 - a. If you have a PSD bracket, remove the two screws (A and B).
Note: Use a small diameter Phillips screwdriver to remove screw (A).



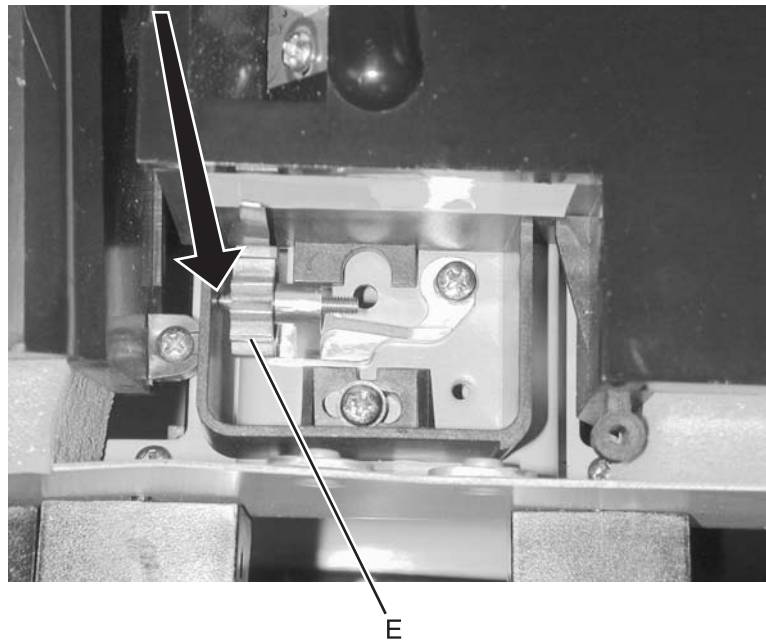
- b. Insert the printhead alignment tool, placing the locating pin (C) in the middle hole (A).
 - c. Secure the alignment tool bracket (D) with screw provided or a screw removed from the previous step.



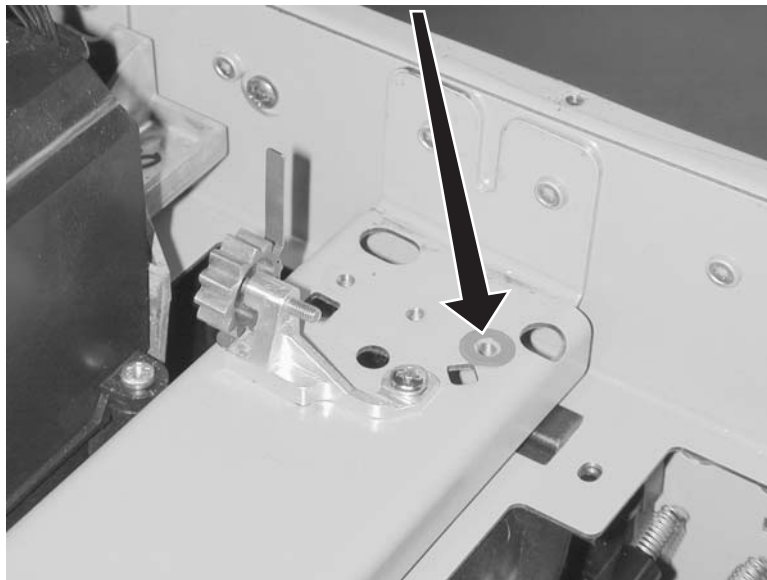
3. Install the second printhead alignment tool in the front of the printhead and secure alignment tool bracket (D) with screw provided. Align the locating pin (C) in the hole in printer frame.



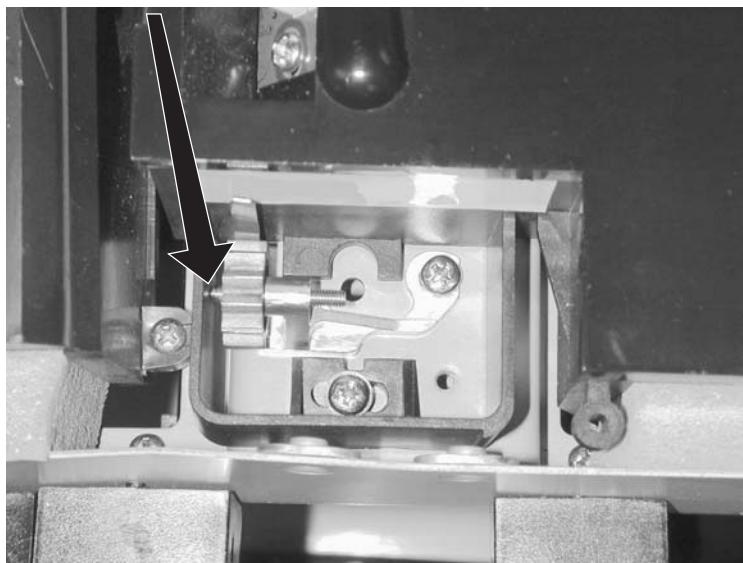
4. Turn the thumbwheel (E) until the end of the thumbwheel just touches the printhead mounting arm for both the front and rear alignment assemblies.



5. Remove the old printhead and install a new printhead assembly. Do not tighten the printhead screws yet.
Note: Make sure the right rear screw goes through the printhead spacer located at the right rear of the printer frame.

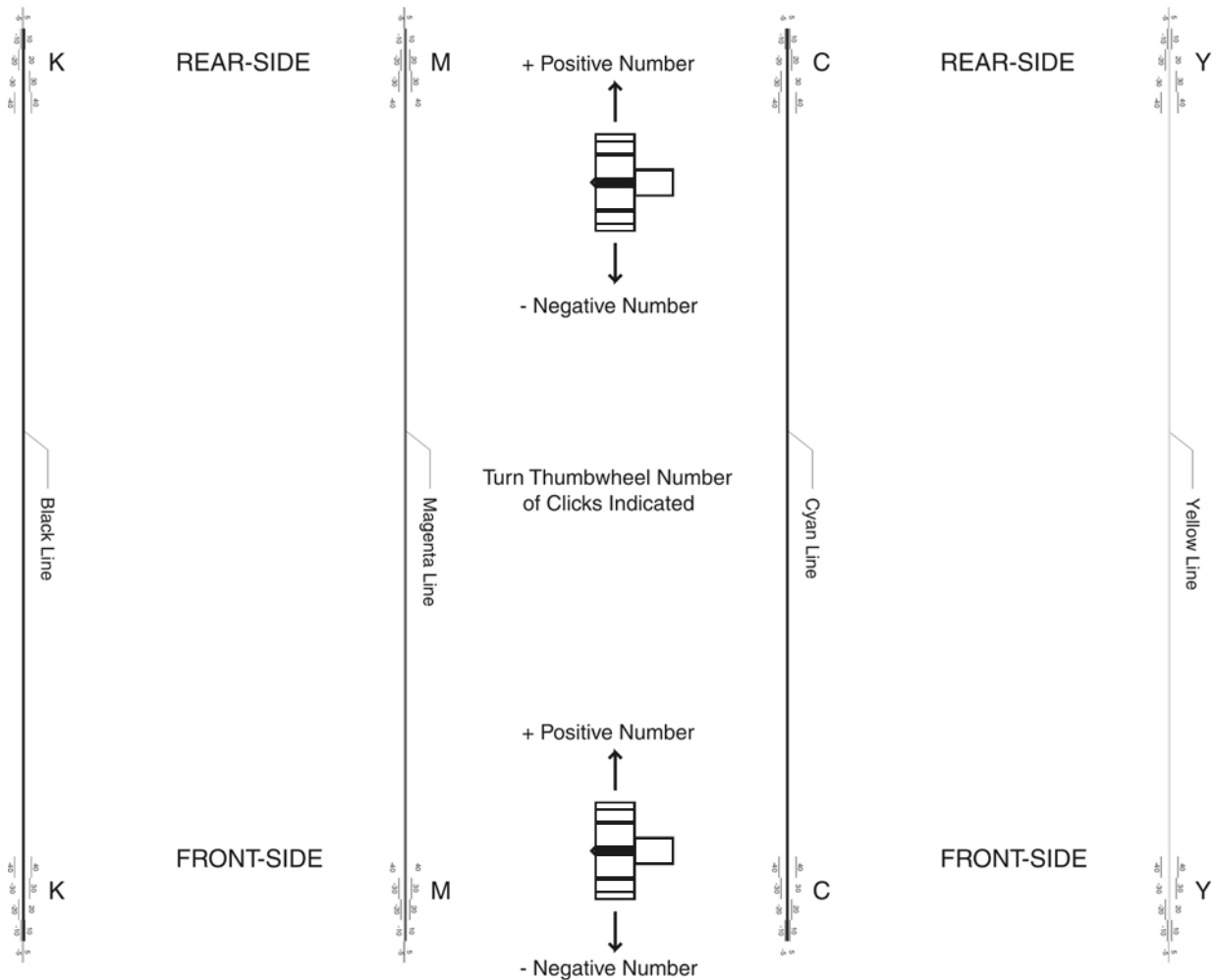


6. Bias the new printhead assembly against the front and rear stops.
7. Tighten the right rear printhead mounting screw. Then, tighten the front screw followed by the left rear screw. Make sure the printhead is biased against both the thumbwheels when tightening the screws.

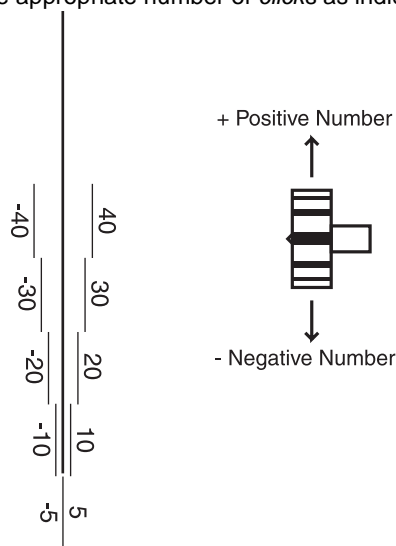


8. Securely close the front cover or reattach if previously removed.
 9. If replacing the black printhead, go to step 12. Otherwise, enter Diagnostics Mode:
 - a. Turn the printer off.
 - b. Press and hold **Go** and **Return**.
 - c. Turn the printer on.
 - d. Release the buttons when *Performing Self Test* displays.
 10. Select **Alignment Menu**, select the color of the printhead that was replaced, and set the Z value to zero. Exit the Diagnostics Menu
 11. With the printer at *Ready* prompt, hook up a computer through the USB, network, or parallel connection and send the file, PHALIGN6.FLS, from the enclosed CD to the printer.
- Note:** Lay the printed Printhead Mechanical Alignment Test Page across the printheads in this orientation as a reference. Use the magnifier lens included in the FRU to view the scales at the ends of the color lines.

Printhead Mechanical Alignment Test Page



12. Loosen the printhead screws before making any adjustments to the thumbwheel.
13. Turn each thumbwheel the appropriate number of *clicks* as indicated by the test page.



For example, if the test page indicates a +10 as the misalignment, turn the thumbwheel 10 *clicks* in the positive direction indicated on the test page. Do this for both the front and rear.

- Bias the printhead against both thumbwheels, and hold in place when tightening the printhead mounting screws.
 - Tighten the right rear printhead mounting screw. Then tighten the front screw followed by the left rear screw.
14. Send the file PHALIGN6.FLS (Printhead Mechanical Alignment Test Page) from the CD to the printer to verify printhead alignment.
 15. If the printhead alignment is within ± 5 for both front and rear positions, then proceed to electronic adjustment procedure. If not, repeat steps 12 through 15, until alignment is within ± 5 .
If you are replacing the black printhead, make sure on the test page that black is within ± 5 and also within ± 1 between the front and rear side. For example, if the rear looks like it is at +3, then the front should be between +2 and +4.

Note: When replacing the black printhead there is no Z value to reset. After the black printhead is mechanically aligned to the magenta printhead, it will be necessary to electronically align the three color printheads to the new black printhead.

Printer registration (only for black printhead replacement)

To perform the registration and alignment through the Diagnostics Menu:

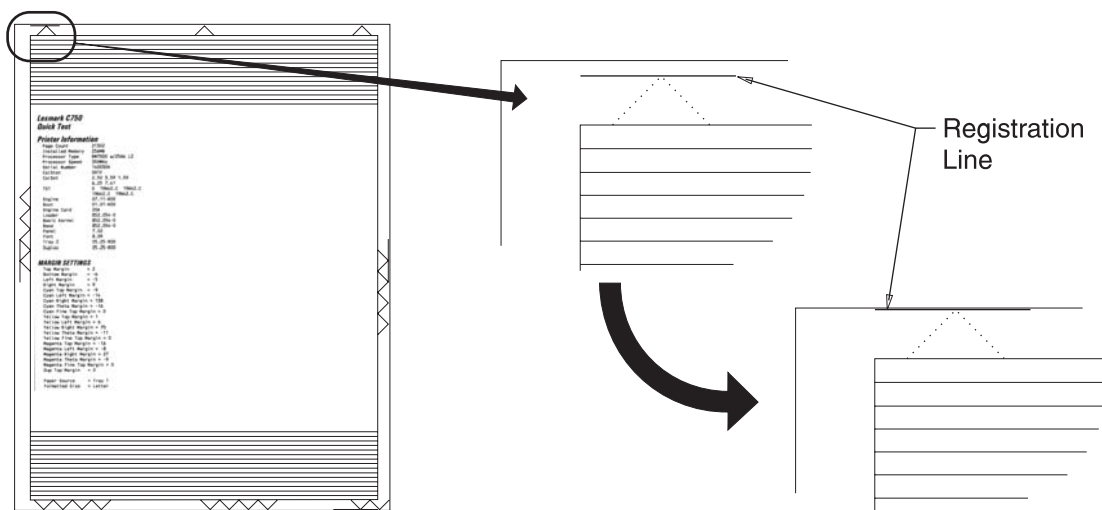
1. Enter Diagnostics Mode.
 - a. Turn the printer off.
 - b. Press and hold **Go** and **Return**.
 - c. Turn the printer on.
 - d. Release the buttons when Performing Self Test displays.
2. Select **Registration** from the menu.
Four margin offset settings are displayed.

T= sxx	B=sxx
L= sxx	R=sxx

Where xx is the current value and s is the sign (+ or -)

3. Press **Go** to print the Quick Test Page.

Examine the registration marks on the top, bottom, left, and right sides on the page.



4. Adjust the margin settings so that the Registration lines are on the edge of the page. Repeat for each margin.

- Adjust the top margin before bottom margin, and the right margin before the left.

Value	Description	Value change effect:	Range
T	Top margin	Increasing the value moves the color plane down the page	-25 to +25
L	Left margin	Increasing the value moves the color plane to the left	-25 to +25
R	Right margin	Increasing the value moves the color plane to the left	-12 to +12
B	Bottom margin	Increasing the value moves the color plane down the page	-12 to +12

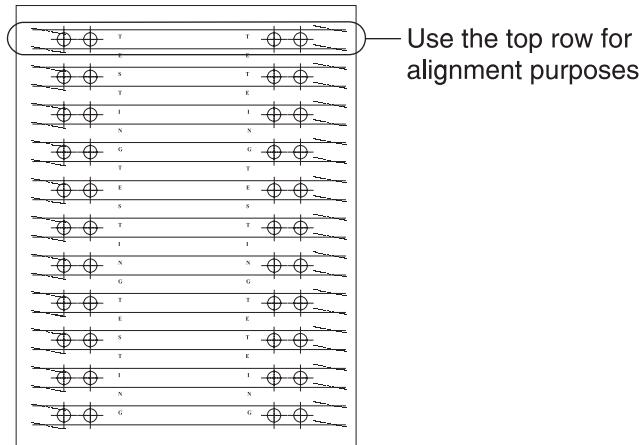
- Menu** changes the values.
- Select** saves the new value chosen and moves to the next margin setting.
- Press **Go** to print the Quick Test Page after adjusting the margins and saving the change (**Select**).

5. After completing the registration, press **Return** to exit the registration function.

Electronic color alignment

Note: Use of a loupe or magnifying glass (4x or higher) may make observation of the alignment targets easier.

- 1. Press **Menu** until **Alignment** displays and press **Select**.
- 2. Select **Alignment Test** from the Alignment menu.
Three sheets print for cyan, magenta, and yellow. Each is compared to black alignment.
For example, one of the sheets shows cyan printed over a black target. Align the cyan over the black.
Repeat for each of the colors cyan, magenta, and yellow.



Examples of the alignment pages are available in Appendix B. See **“Printhead alignment test pages—magenta (one of three)” on appendix page B-9.**

- 3. To align cyan, press **Menu** until **Cyan** is displayed, press **Select**. Four alignment settings are displayed.

T= Top	L= Left
R= Right	Z= Theta

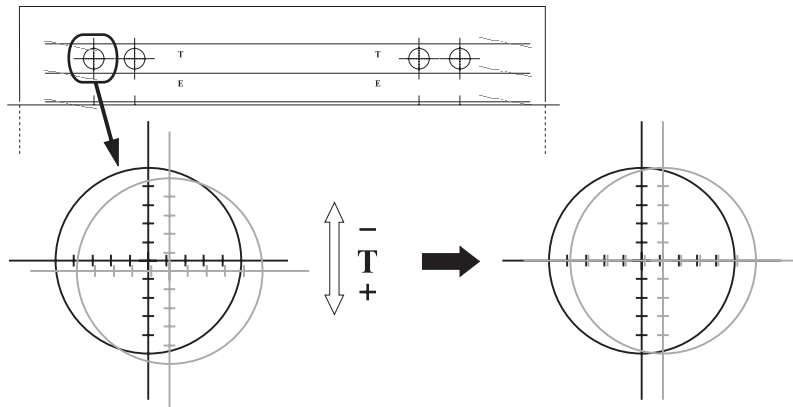
- **Menu** changes the values.
- **Select** saves the new value chosen and moves to the next margin setting.
- Press **Go** to print the individual color Alignment Page after adjusting the targets and saving the change (**Select**).
- The range of values differs for the various margin offsets.

Value	Description	Range
T	Top Margin Offset	-128 to +127
L	Left Margin Offset	-300 to +300
R	Right Margin Offset	-300 to +300
Z	Theta Offset (Skew compensation)	-16 to +16

4. Press **Go** to print the Cyan Alignment Page. Use the top row to determine adjustments.

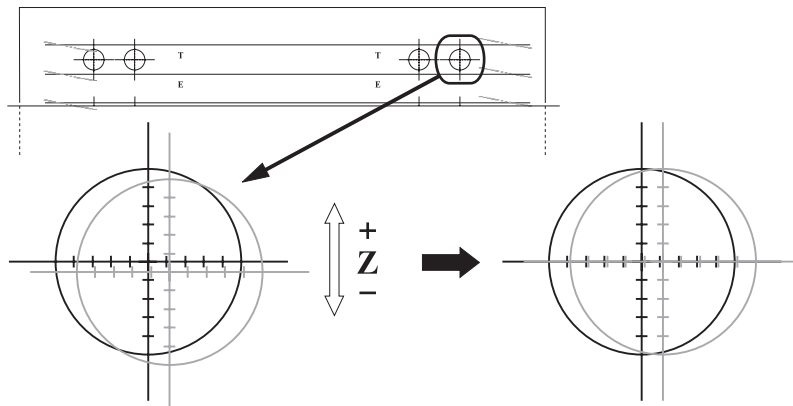
See **"Printhead alignment test page—cyan (three of three)"** on appendix page B-11 for a color sample of the entire page.

- a. Use the leftmost target in the first row to adjust the cyan and black horizontal lines in the target (T value or Top).



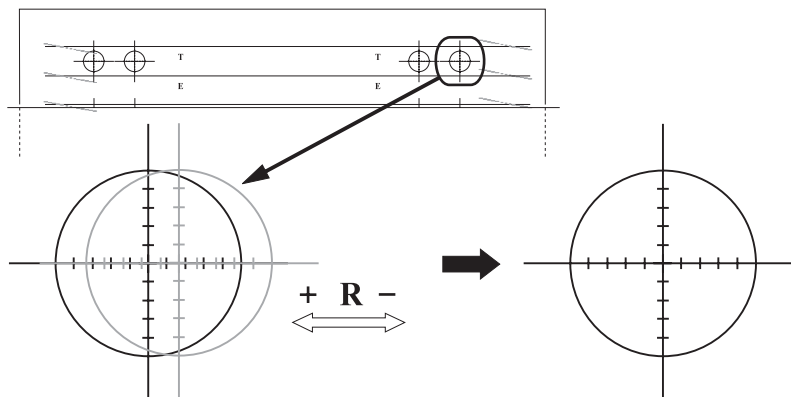
Adjust the setting and press **Go** to print the page and verify the setting, until the lines are even. Press **Select** to save the value. The display advances to the next value.

- b. To adjust Z or theta value. Press **Go** to print the Cyan Alignment Page. Use the rightmost target in the first row to adjust the cyan and black horizontal lines.



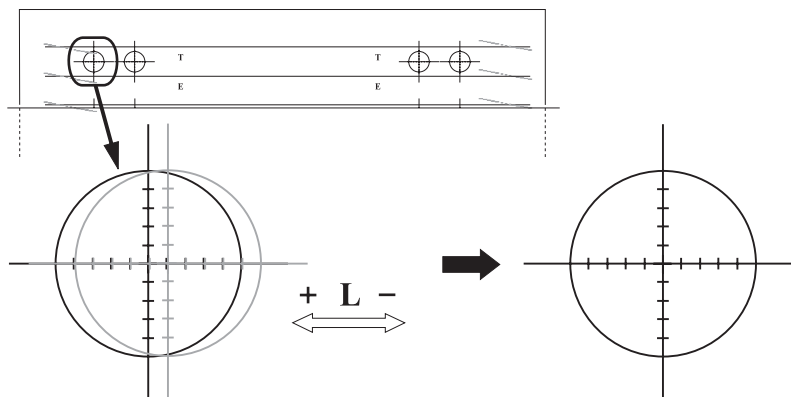
Adjust the setting and press **Go** to print the page and verify the setting, until the lines are even. Press **Select** to save the value.

- c. To adjust R or Right value press **Go** to print the Cyan Alignment Page. Use the rightmost target in the first row to adjust the cyan and black vertical lines.



Adjust the setting and press **Go** to print the page and verify the setting, until the lines are even. Press **Select** to save the value.

- d. To adjust L or Left value, press **Go** to print the Cyan Alignment Page. Use the leftmost target in the first row to adjust the cyan and black vertical lines until the targets overlap.

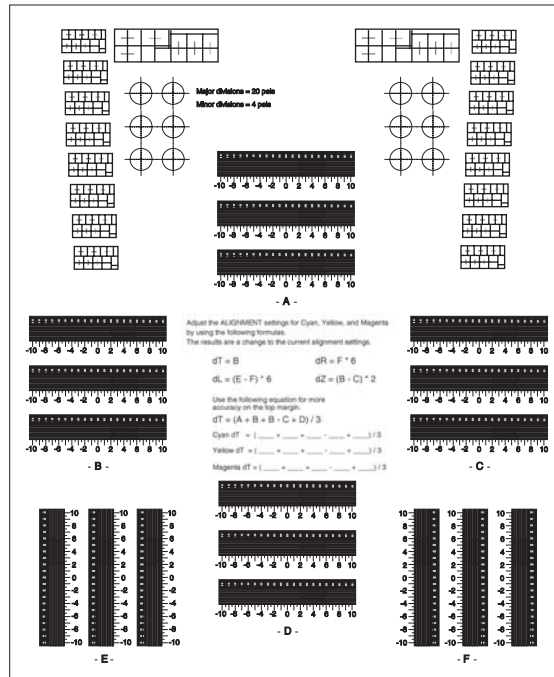


Adjust the setting and press **Go** to print the page and verify the setting, until the lines are even. Press **Select** to save the value.

- e. Change each of the settings (Top, Left, Right, and Theta) for cyan. When the targets are aligned, press **Go** to print the final page.
5. After aligning the cyan targets, press **Return**. Repeat the process to align the Top, Left, Right, Theta for magenta and for yellow. See **“Printhead alignment test pages—magenta (one of three)” on appendix page B-9** and **“Printhead alignment test page—yellow (two of three)” on appendix page B-10** for color samples of these pages.

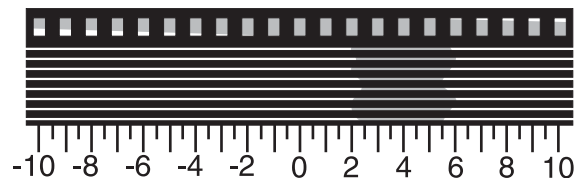
Print line length calibration

1. Press **Return** until you reach the main Diagnostic Menu (the top line is blank and bottom line displays Alignment).
2. Press **Menu** until Print Tests is displayed and press **Select**.
3. Select Print Line Length Calibration.
There are six alignment groups, A through F.



See **"Print Line Len page"** on appendix page B-12 for a color sample.

4. A color band is visible through the black bars. Locate the center of the color band and determine the value.



- If all the color bands for cyan, magenta, and yellow on all six groups A through F are centered between -2 and +2, you are done.
 - If the center is located outside the area between -2 and +2, you need to calculate the appropriate alignment adjustment for that color. Continue to the next step.
5. Calculate the Alignment Group values.

Alignment Group	Adjustment Calculation(s)	
A	$dT = (A + B + B - C + D) / 3$	---
B or C	$dT = (A + B + B - C + D) / 3$	$dZ = (B - C) * 2$
D	$dT = (A + B + B - C + D) / 3$	---
E	$dL = (E - F) * 6$	---
F	$dL = (E - F) * 6$	$dR = F * 6$

6. After completing calculations for the colors that are beyond -2 and +2 range, return to the Alignment menu.
See **"Electronic color alignment"** on page 4-58.

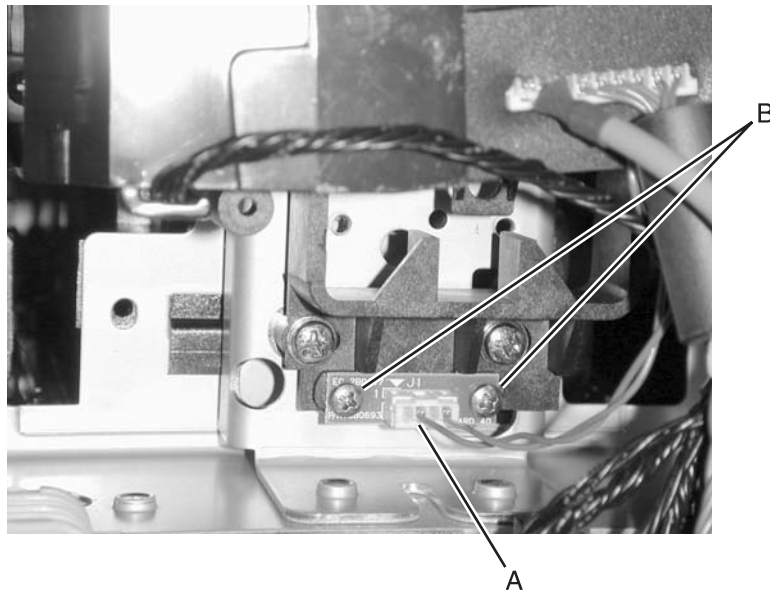
7. Select the appropriate color.
8. Change value of the respective setting by the calculated value.
For example, if $T = -5$ and $dT = 2$, the new T value is $(T + dT = -5 + 2) -3$.
9. Once all values are changed, return to the Print Tests menu and select Print Line Length Calibration.
10. Verify that the adjusted values and the color bands for cyan, magenta, and yellow on all six groups, A through F, are centered between -2 and +2. Repeat if necessary.
Note: The Line Length Calibration must be printed after making any changes to color alignment.
11. Exit diagnostics.

Printhead thermistor card removal

See **“Thermistor card” on page 7-15** for the part number.

Note: A PSD assembly may already exist. It is not necessary to remove an existing PSD sensor card or assembly.

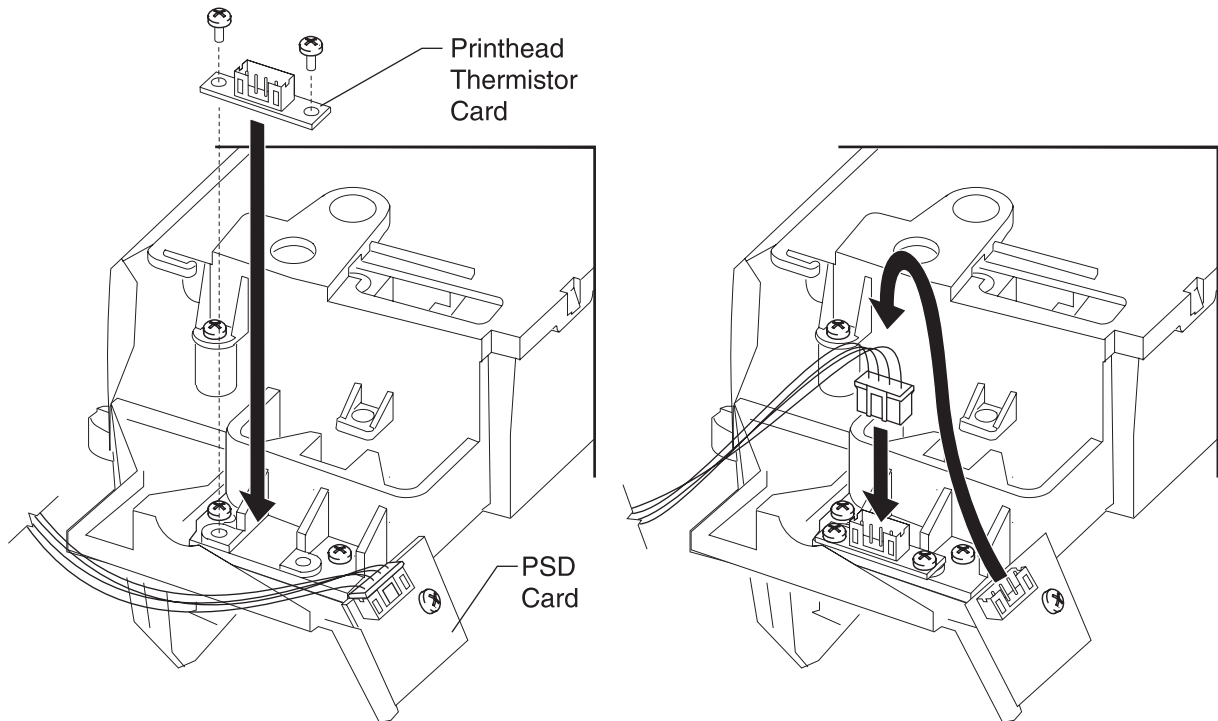
1. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5**.
2. Disconnect the cable (A) from the thermistor.
3. Remove the two screws (B).



4. Remove the printhead thermistor card.

Installation notes

- If a PSD exists, install the new printhead thermistor card. Leave the old PSD sensor assembly in place.
- Disconnect the cable from the PSD card and connect it to the printhead thermistor card.



Note: Whether replacing a printhead thermistor or an existing PSD sensor assembly, check the Registration and Color Alignment.

- See **“REGISTRATION”** on page 3-14.
- See **“Electronic color alignment”** on page 4-58
- See **“Print line length calibration”** on page 4-61.

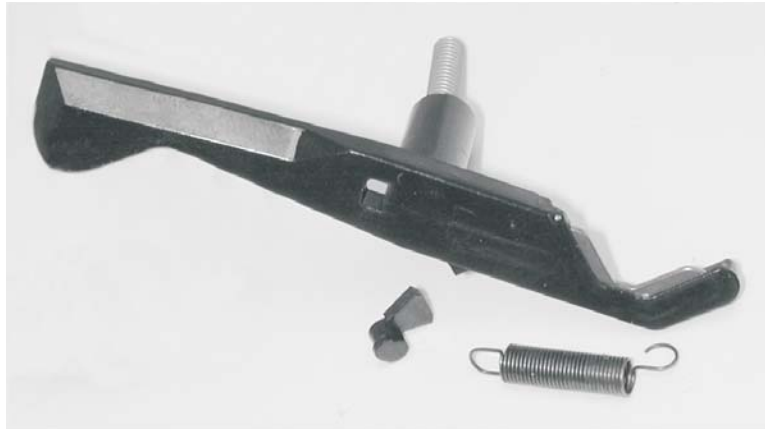
PSD sensor assembly removal

Note: Do not remove the PSD sensor assembly. Replace it with the printhead thermistor card and leave the PSD sensor assembly in place. See **“Printhead thermistor card removal”** on page 4-62 installation information.

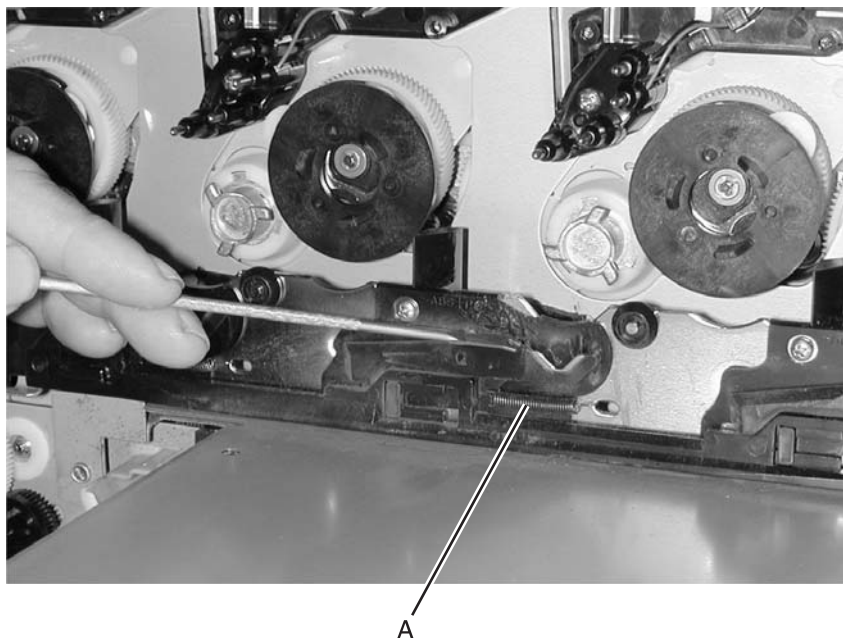
Rear bellcrank removal (cyan, magenta, yellow)

See the assembly, **“ITU loading”** on page 7-29, for the part number.

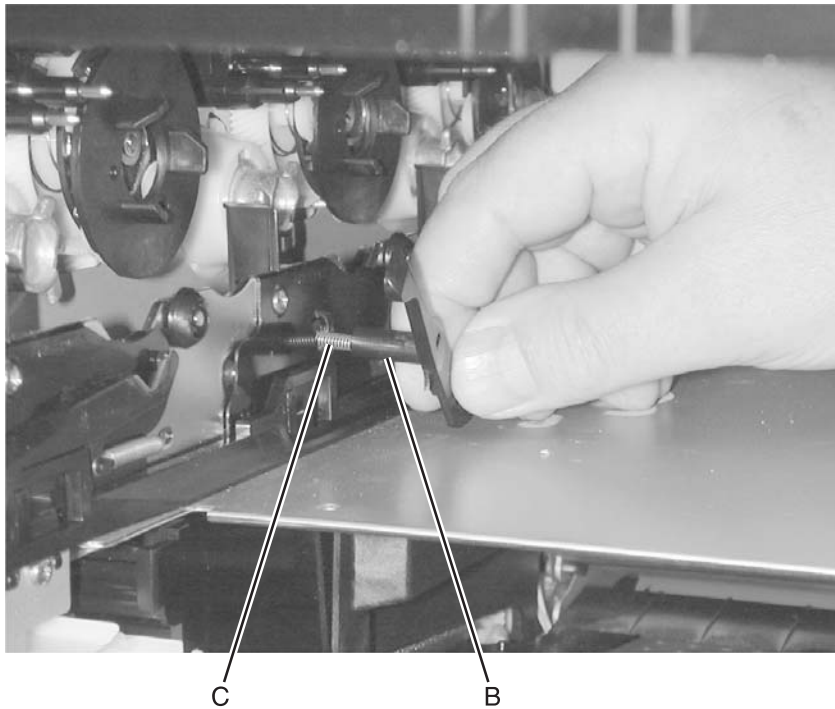
1. Power off the printer.
2. Remove the four toner cartridges and leave the front door open.
3. Remove the ITU assembly. See **“ITU assembly removal”** on page 4-37.
4. Check each of the rear bellcranks for cracks or breakage.



5. Remove the spring (A).



6. Rotate the contact end of the bellcrank down (B) and remove. Be careful not to lose the contact spring (C).



Installation note

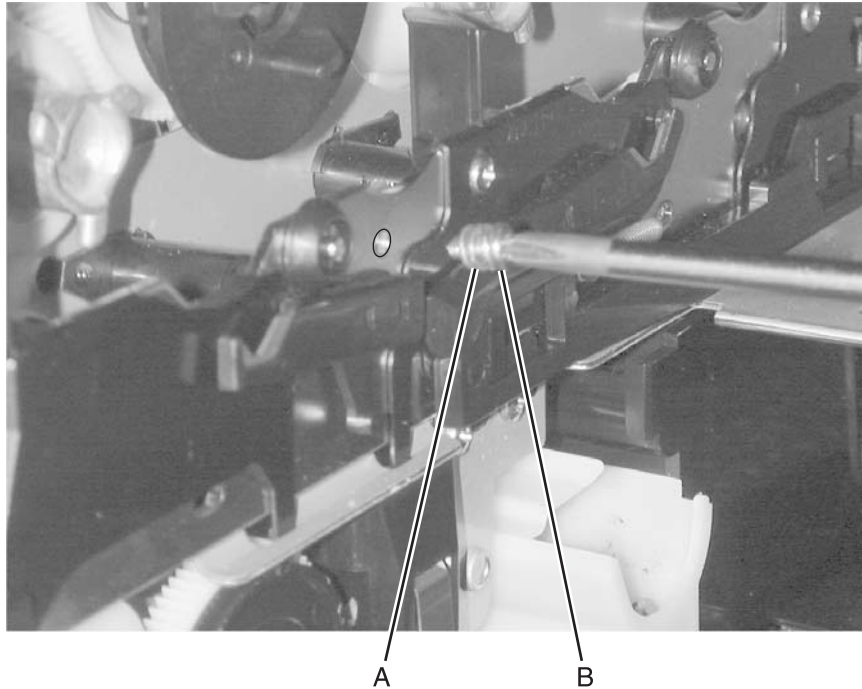
Replace the bellcranks by reversing the order of removal.

Note: Test the color coverage by running the Print Quality Pages in the Diagnostics or Configuration Menu.

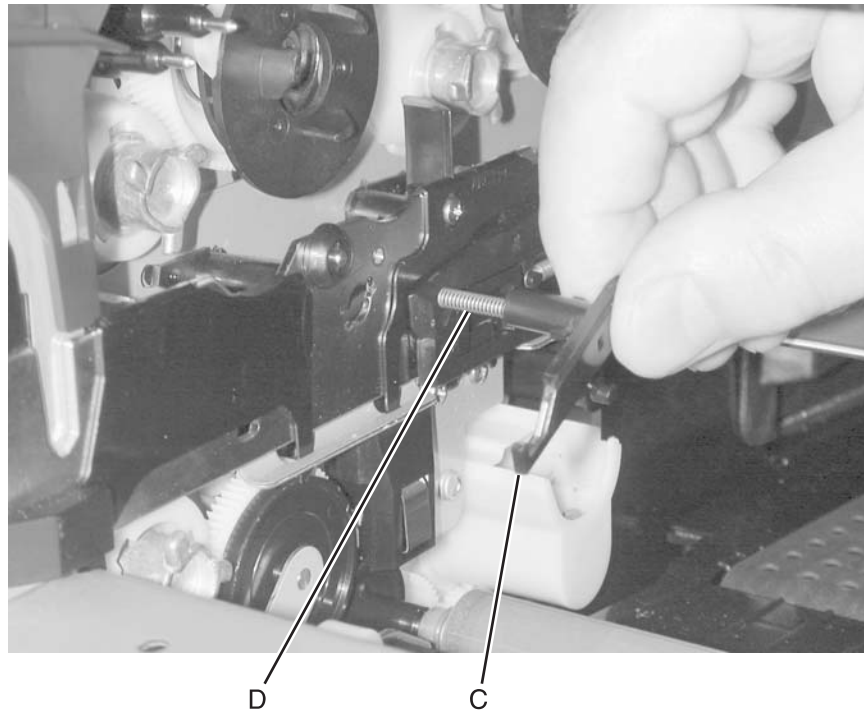
Rear bellcrank removal (black)

See the assembly, **"ITU loading" on page 7-29**, for the part number.

1. Power off the printer.
2. Remove the four toner cartridges and leave the front door open.
3. Remove **"ITU assembly removal" on page 4-37**.
4. Check each of the rear bellcranks for cracks or breakage.
5. Remove the spring.
6. Remove the stop screw (A) and two washers (B). Be careful not to lose the washers. Recommend using a magnetic tipped screwdriver to remove the screw.



7. Rotate the contact end of the bellcrank down (C) and remove. Be careful not to lose the spring (D).



Installation note

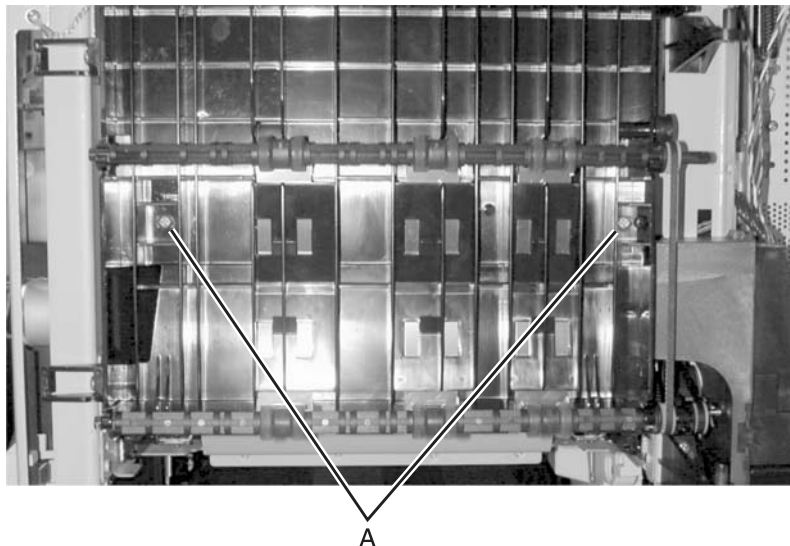
Replace the bellcranks by using reverse order of removal.

Note: Test the color coverage by running the Print Quality Pages in the Diagnostics or Configuration Menu.

Redrive assembly removal

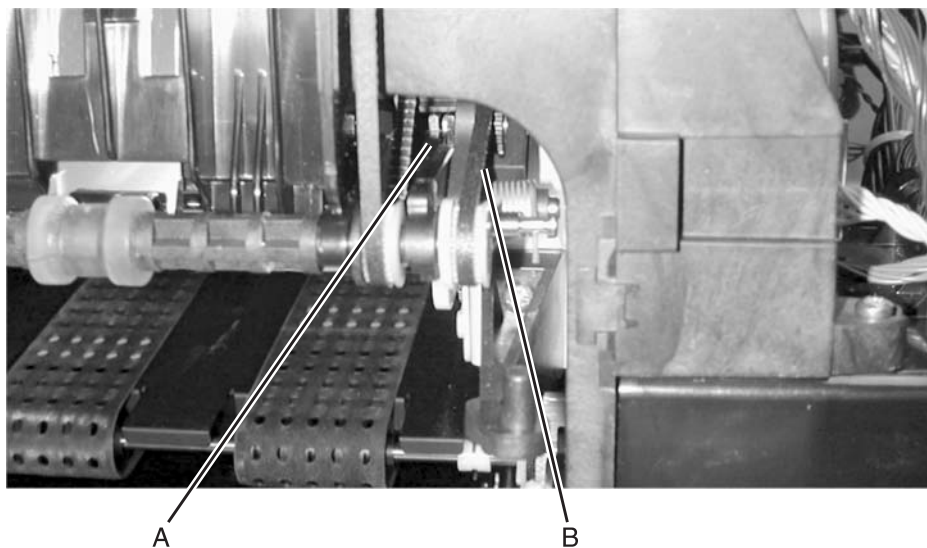
See “Redrive assembly” on page 7-16 for the part number.

1. Open the redrive door.
2. Remove the redrive assembly screw type “323” (A).



3. Remove the drive belt (B) from the lower redrive pulley.
4. Remove the redrive assembly.

Note: When you reinstall the redrive assembly be sure to align the notch in the redrive assembly with tab (A).



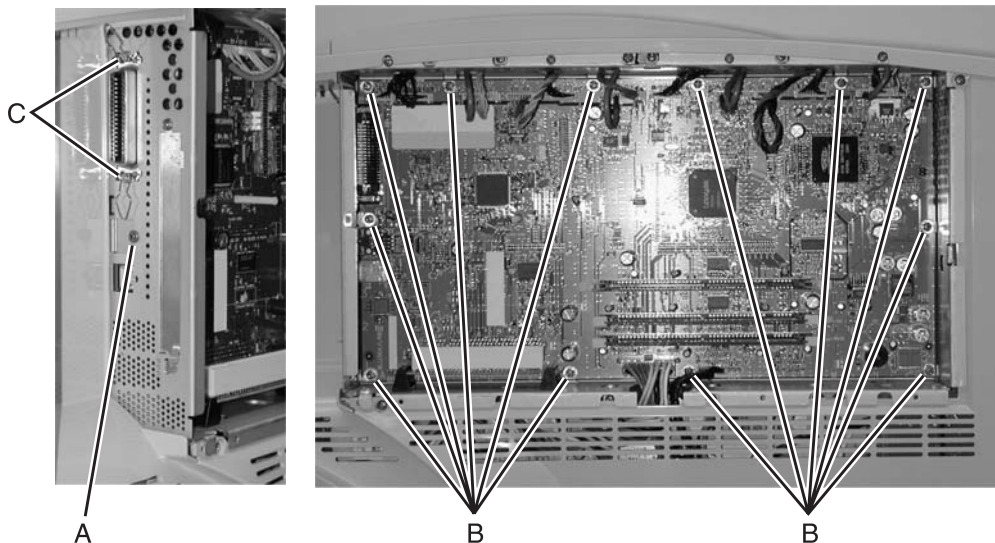
RIP board removal

See **“RIP board assembly - network, model 5060-002” on page 7-37** or **“RIP board assembly, non-network, Model 5060-001” on page 7-37** for the part number.

Warning: Improper RIP board replacement can result in incorrect printer function and significant additional service time due to loss of data.

Warning: Also if both the RIP and engine boards are being replaced, DO NOT replace both at once. Replace one board at a time, following appropriate procedures for each.

1. Remove the outer EMC shield. See **“Outer EMC shield removal” on page 4-47**.
2. Remove the rear cover. See **“Rear cover removal” on page 4-8**.
3. Remove the USB connector screw type **“232” (A)**.
4. Remove the RIP board screw type **“232” (B)**.
5. Remove the parallel connector (C).
6. Disconnect all cables from the RIP board and remove the board.



Installation notes

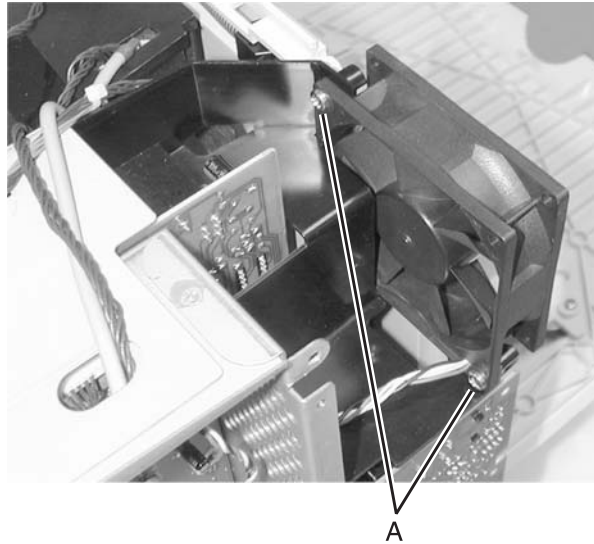
Perform the following steps to install the replacement RIP board:

1. Turn off the printer.
2. Install the replacement RIP board.
3. Turn on the printer.
4. When the operator panel prompts NV Rip to Eng, choose STOP. This prevents transfer of data from the RIP board to the engine board.
5. When the operator panel prompts NV Eng to Rip, choose GO. This transfers data from the engine board to the RIP board. The printer restarts at this point.
6. At the READY prompt, print a Menu page and look for the correct printer name and equivalent/updated RIP code level. The Menu page prints with acceptable print quality indicating calibration data has been properly preserved.

RIP fan removal

See **“RIP fan” on page 7-41** for the part number.

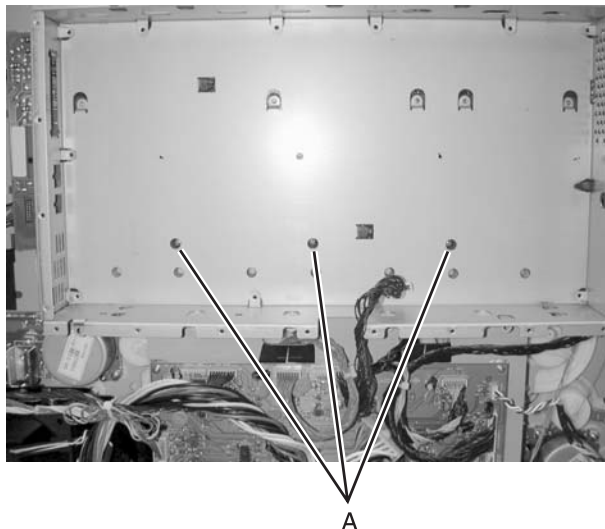
1. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5**.
2. Remove the rip fan screw type **“324” (A)**.
3. Disconnect the rip fan cable from the engine board at connector J53.
4. Remove the rip fan.



RIP board shield assembly removal

“RIP board shield assembly” on page 7-37 for part number.

1. Remove the top cover assembly. See **“Top cover assembly removal” on page 4-5**.
2. Remove the rear fan cover. See **“Rear fan cover removal” on page 4-8**.
3. Remove the rear cover. See **“Rear cover removal” on page 4-8**.
4. Remove the RIP board. See **“RIP board removal” on page 4-70**.
5. Remove the transfer HVPS board. See **“Transfer HVPS board removal” on page 4-80**.
6. Remove the RIP board shield assembly mounting screws (A) through the holes in the shield.
7. Remove the RIP board shield assembly.



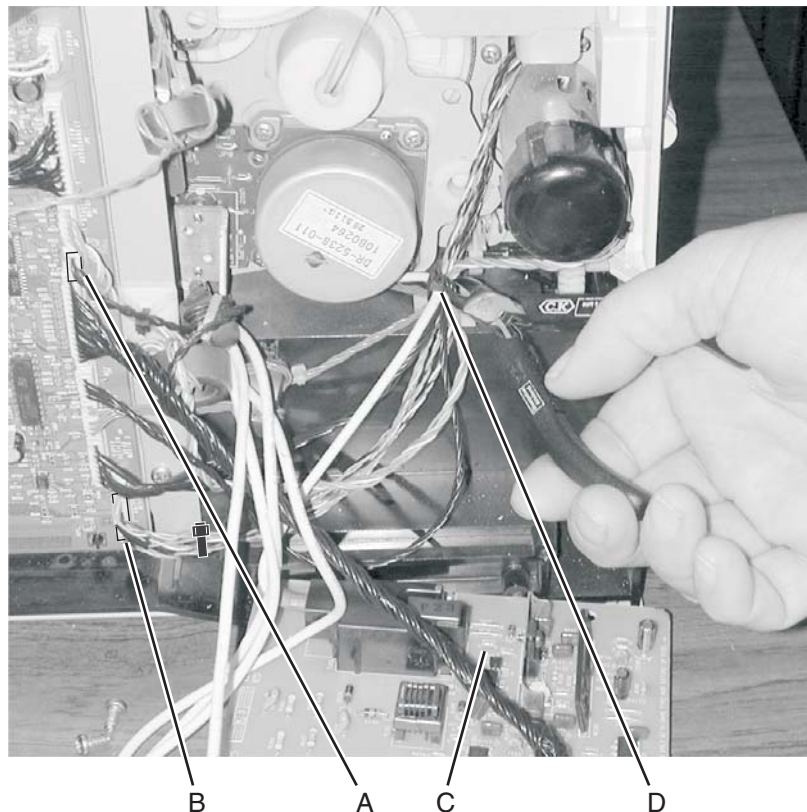
S2/NMS/transparency sensor assembly removal

The S2, narrow media sensor (NMS), and transparency sensor are bundled into a sensor cable assembly. See **"S2/transparency/narrow media sensor assembly" on page 7-17** for the part number.

Removing the old assembly

Note: Disconnect all power from the printer before proceeding with the steps below.

1. Open the front cover and remove the print cartridges.
2. Open the multipurpose feeder (MPF) door.
3. Remove the ITU assembly.
4. Remove the right rear cover.
5. Disconnect connector J70 (A) to the MPF sensor from the system board.



6. Remove the screws from transfer high voltage power supply (C) and lay it down out of the way.
7. Cut the cable tie (D) which holds the cable bundle so you can remove the sensor cable assembly. Cut any cable tie restraining the cable to J68.

Note: Note the location of any cable ties so they can be replaced later.

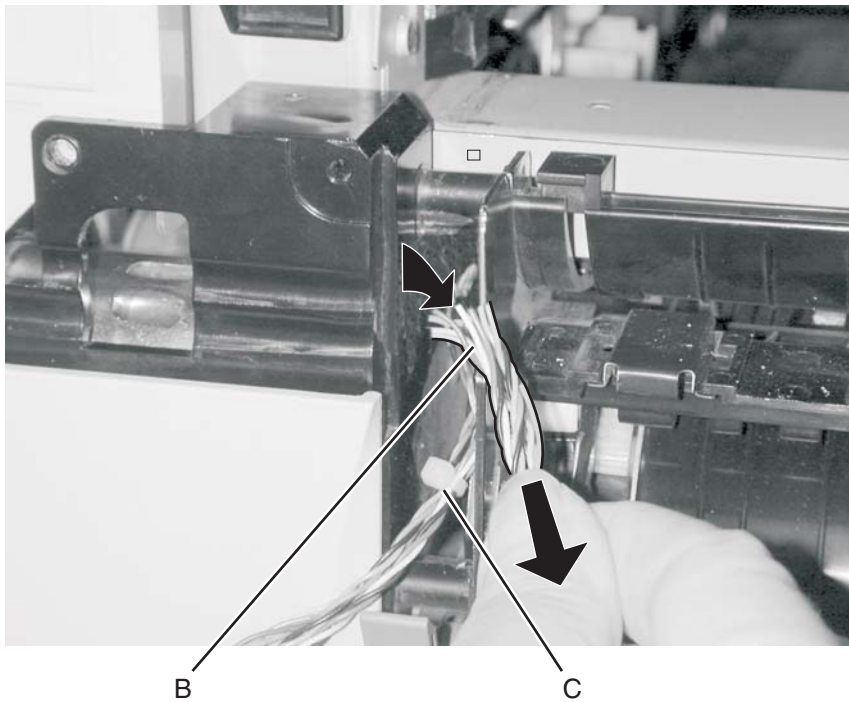
Warning: Use care not to cut or nick any cables when removing the cable ties.

8. Disconnect J68 (B) from the engine board.
9. Cut the connector J68 off the old sensor cable assembly to make removal easier.

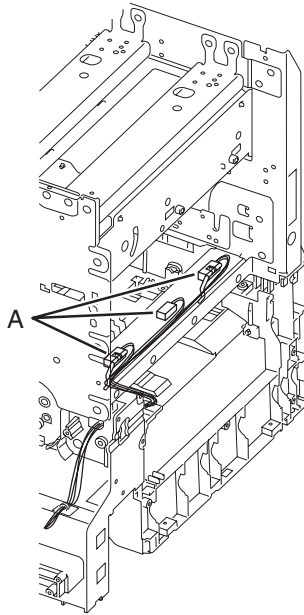
- 10.** Disconnect the MPF assembly door hinge restraint by removing screw (E) and remove the MPF assembly.



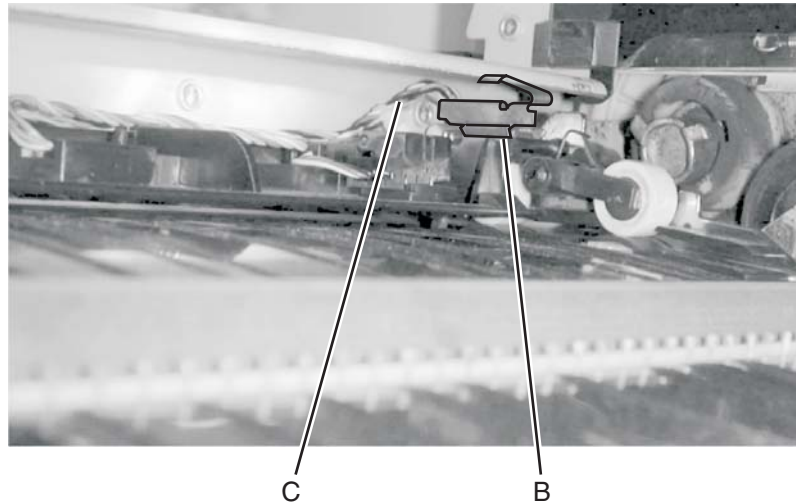
- 11.** Gently pull the sensor assembly cable (B) through the opening between the upper and lower frame and remove the sensor assembly through the rectangular opening.
12. Clip and remove the cable tie (C).



13. Disconnect the three sensors (A) from the frame.



Service tip: A light aimed toward the grounding clip (B) makes the removal easier.



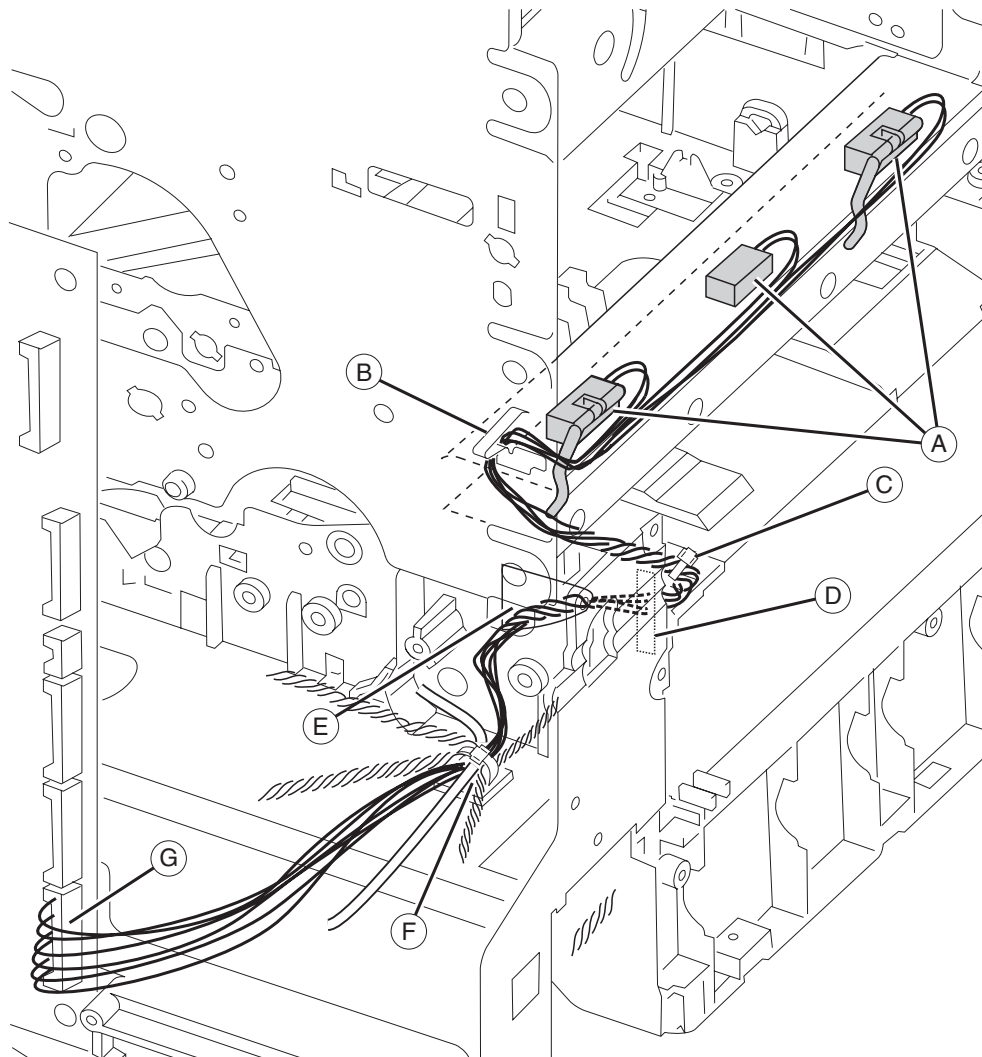
Service tip: Leave the old sensor cable assembly (C) in place temporarily after disconnecting the sensors as a guide to placement of the sensors for the new assembly. Lay the new sensor cable assembly beside the old one and connect the new sensors as you remove the old assembly. The new sensor cable assembly is installed on the other side of the grounding clip (closer to the fuser), so you do not have to reinstall the new sensor cable assembly between the clip and upper frame channel.

14. Pull the old sensor cable assembly to remove it.
 Observe the routing of the cable, especially the location of the cable (C) around the grounding clip (B). The new cable will be installed on the opposite side of the clip.
 Pulling too firmly on the sensor cable assembly may unseat the grounding clip. The old cable assembly runs between the frame and the grounding clip.

Installing the new assembly

1. Remove the J70 connector cable to allow space. Note the route it shares with sensor cable assembly through the frame (see openings D and E below).
2. Place a new cable sensor assembly in the printer next to the sensor connectors (A).
3. Route the J68 connector around the ground clip (B) and cable channel between the upper and lower frame.
4. Route the J68 cable connector through the rectangular opening (D) in the lower frame and out through the opening (E).

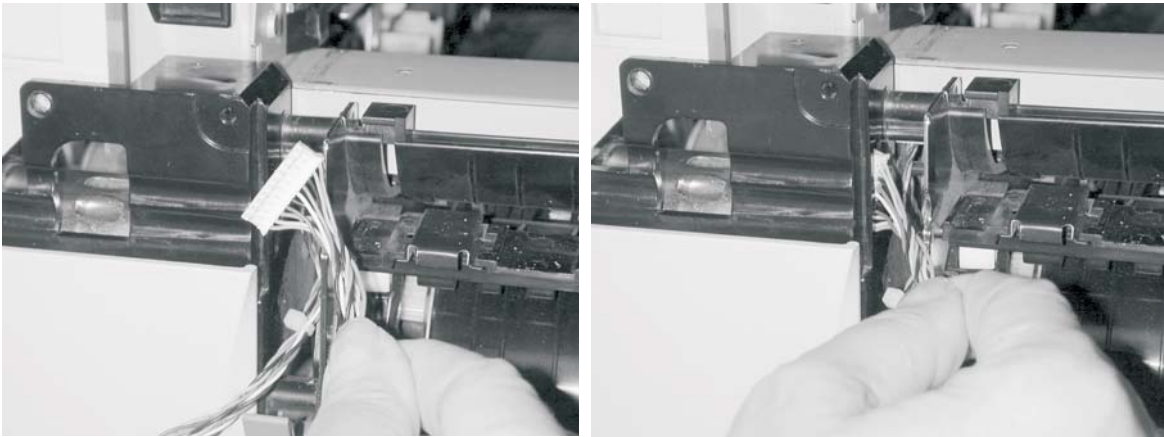
Note: Guiding the cable through the small opening requires some patience. Use the diagram below and the steps following as a guide.



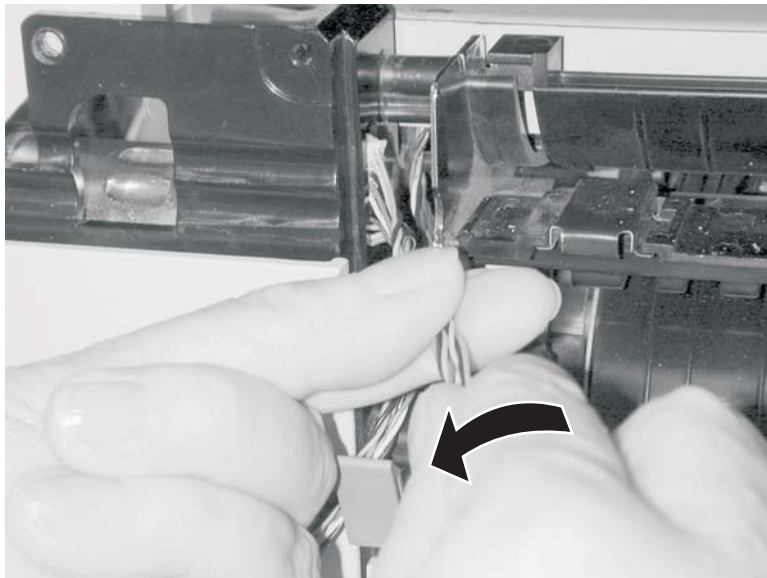
- A –Sensors, part of sensor cable assembly
- B –Grounding clip
- C –Cable tie
- D –Rectangular opening
- E –Opening
- F –Cable tie
- G –J68 connector, sensor cable assembly

Insert the cable connector into the rectangular opening and twist left and push up gently, the connector tends to follow the pathway through and out.

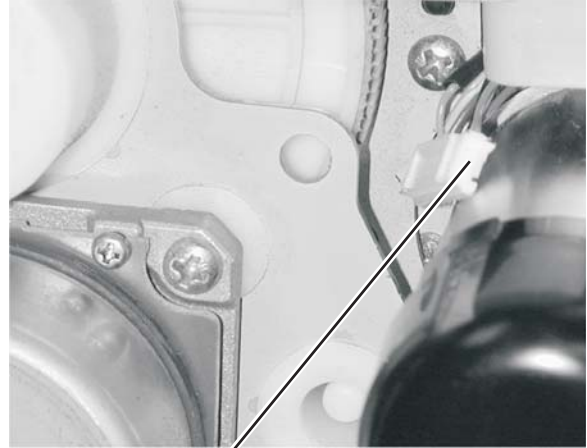
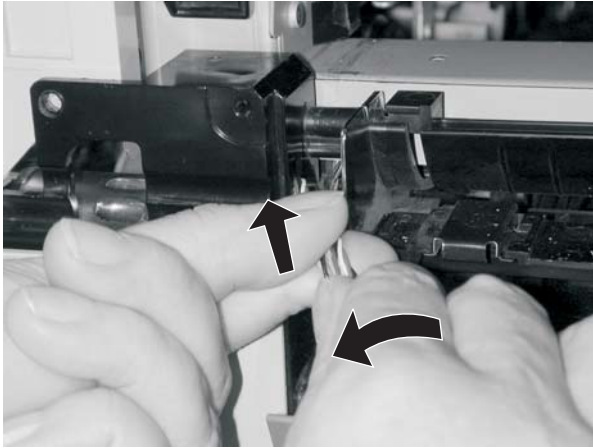
- a.** Insert the J68 connector of the sensor cable assembly into the rectangular opening and push up.



- b.** With your other hand, twist the sensor cable assembly toward the left and continue guiding the cable up.



C. Continue to push until the J68 connector (A) appears in the opening.

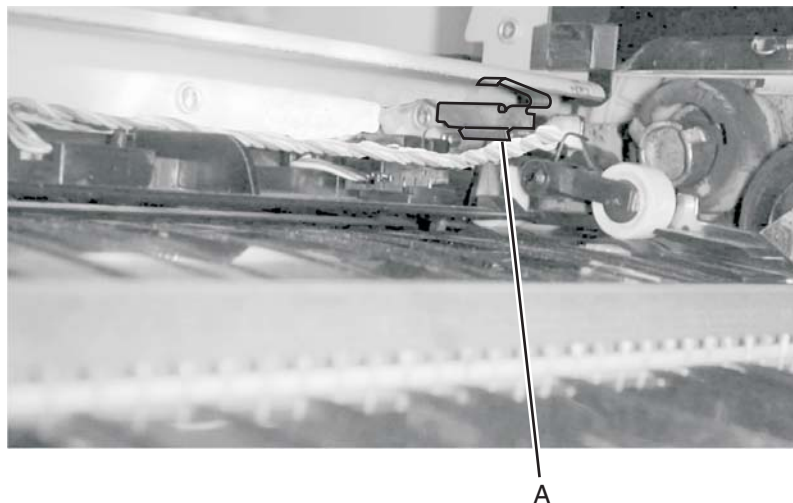


A

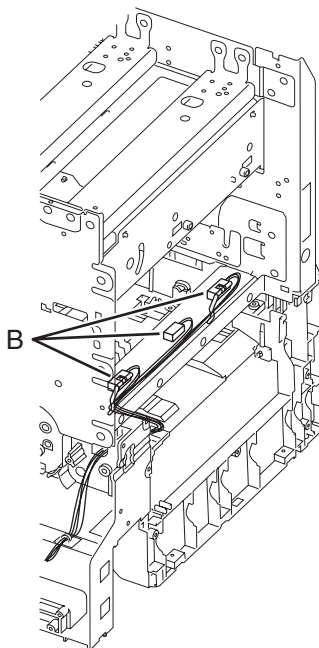
5. Route the MPF tray assembly sensor cable through the same openings.
6. Connect J68 to the engine board.
7. Connect the MPF tray assembly sensor cable to the engine board at J70.
8. Install the new cable tie (B) on the cable bundle and trim the excess cable tie flush. Replace other cable ties you removed in earlier steps.



9. Ensure the sensor cable assembly is on the side of the grounding clip (A) closest to the fuser end of the printer.

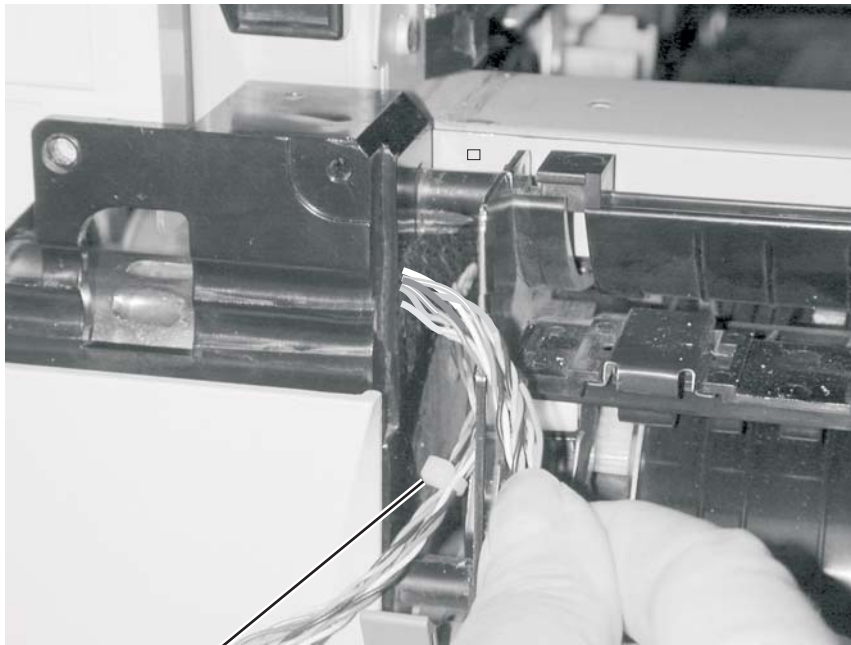


10. Install the new sensor assembly (B) in the lower frame.



11. Verify the sensors flags are not sticking and are moving freely.
Service tip: Use a sheet of paper between the upper and lower guides to activate the sensors.

12. Install a new cable tie in the same location as the one that was previously removed (B), if necessary.



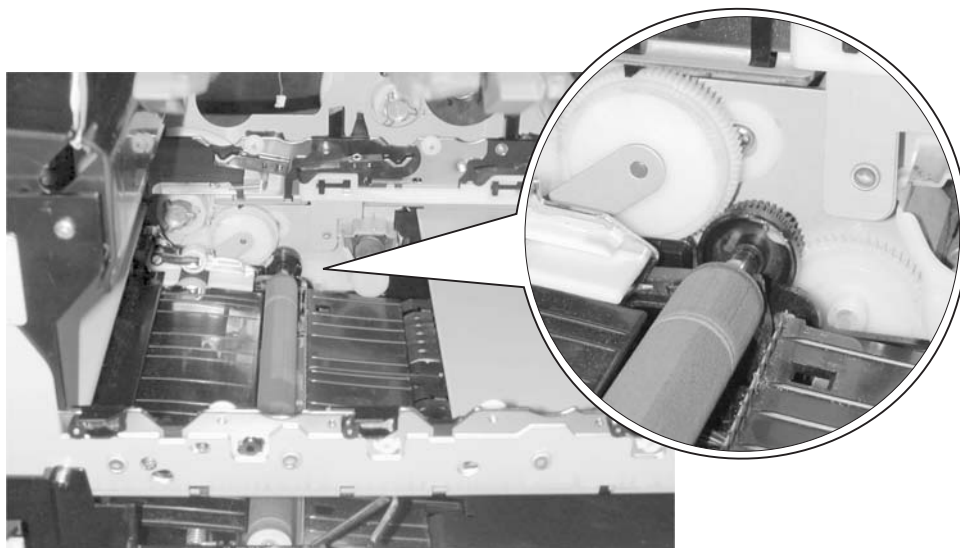
A

13. Install the MPF tray assembly and replace the screw to reconnect the MPF assembly door hinge restraint.
14. Install the ITU and print cartridges.
15. Reconnect power to the printer.
16. Run the print test to check for correct operation before replacing the right rear cover.
17. Replace the right rear cover.

Second transfer roll removal

See **“Second transfer roll” on page 7-14** for the part number.

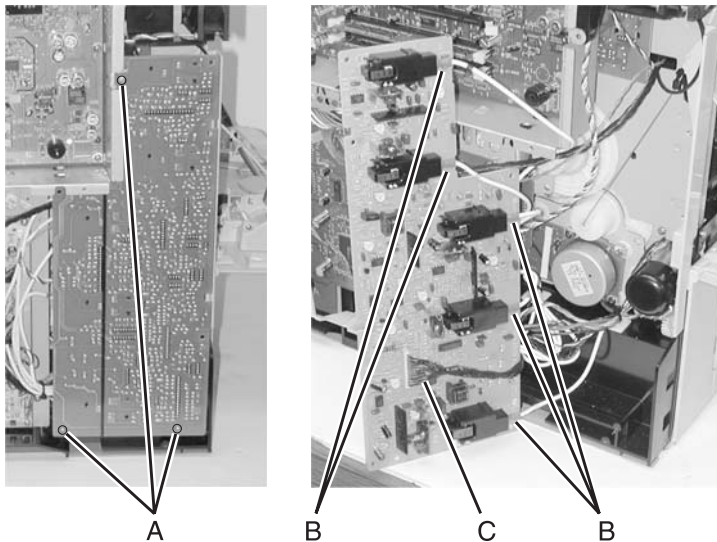
1. Remove the ITU assembly. See **“ITU assembly removal” on page 4-37**.
2. Lift the transfer roll from the front bearing and remove the transfer roll.



Transfer HVPS board removal

See **“Transfer HVPS board” on page 7-38** for the part number.

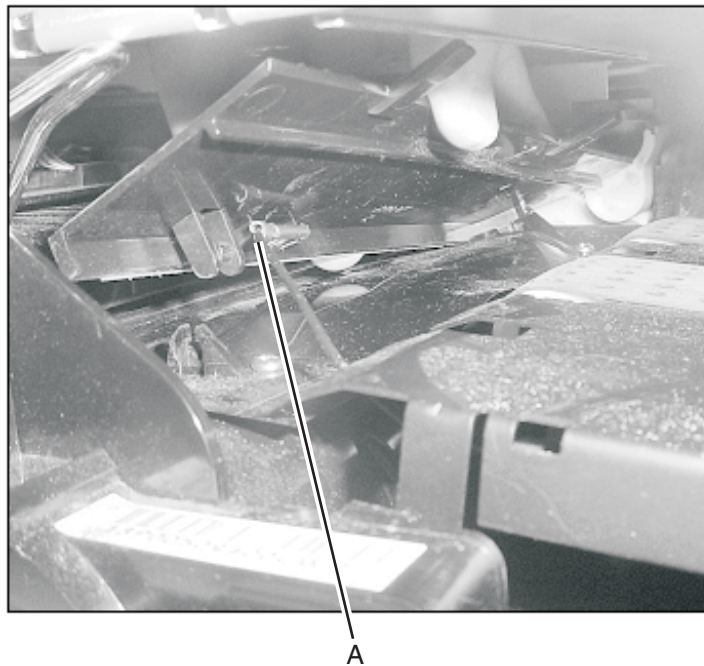
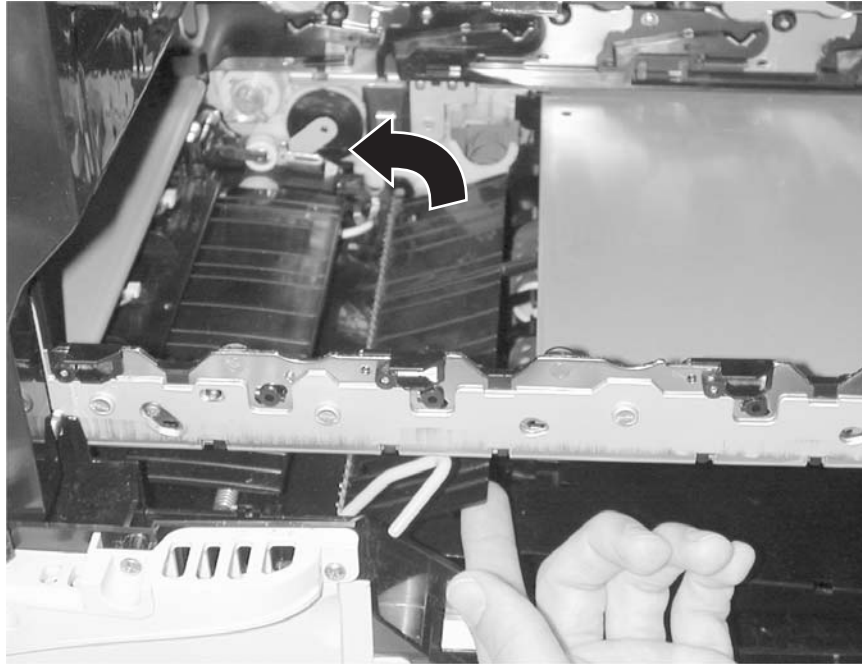
1. Remove the rear cover. See **“Rear cover removal” on page 4-8**.
2. Remove the transfer HVPS board screw type **“324”** and **“312”** (A).
3. Disconnect the five spade terminals (B) from the transformers.
4. Disconnect the control cable (C).
5. Remove the transfer HVPS board.



Transfer plate assembly

See **“Transfer plate assembly” on page 7-14** for part number.

1. Remove the **“S2/NMS/transparency sensor assembly removal” on page 4-72.**
2. Remove the transfer plate. Lifting and rotating the right edge of the plate up to a 45° angle releases the transfer plate. Remove the grounding strap (A) attached to the bottom of the transfer plate.

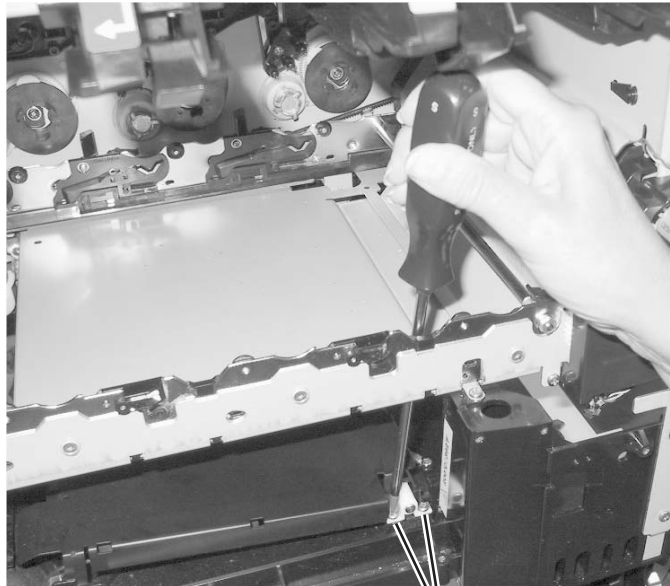


3. Remove the transfer plate assembly.

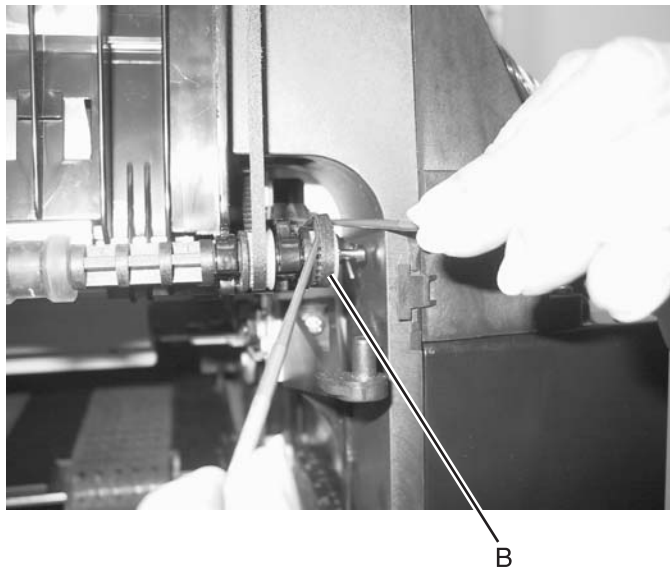
Vacuum transport belt (VTB) removal

See **“Vacuum transport belt assembly”** on page 7-13 for part number.

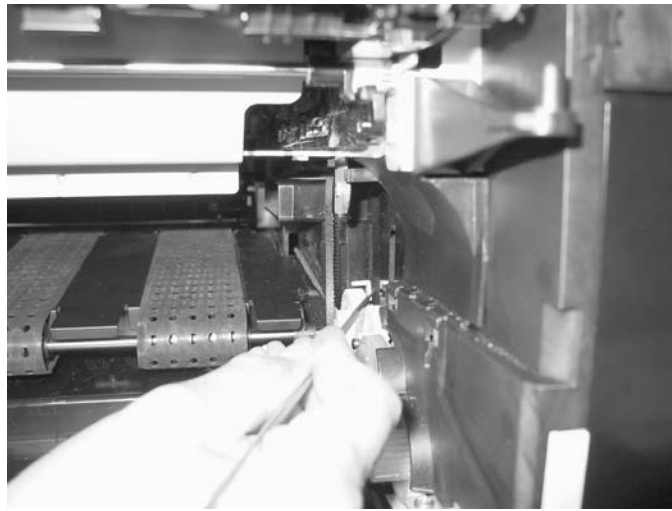
1. Remove the transfer plate assembly. See **“Transfer plate assembly”** on page 4-81.
2. Remove the fuser bottom duct. See **“Fuser bottom duct removal”** on page 4-32.
3. Remove the two front screws (A).



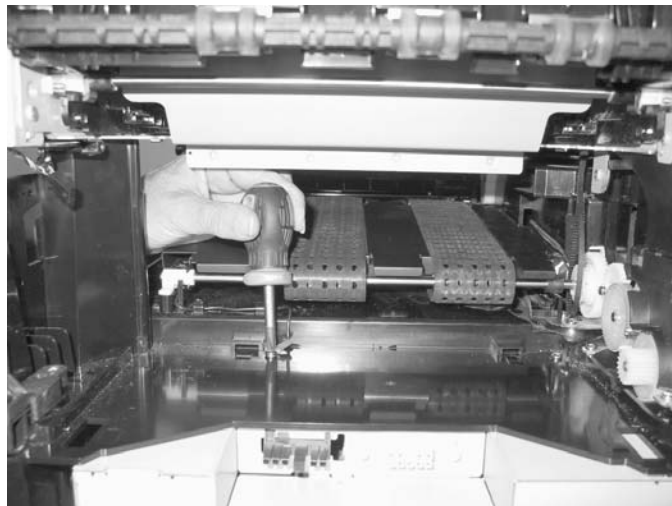
4. Loosen belt (B) on redrive assembly and remove from redrive gear.
5. Remove belt from gear on vacuum belt transfer unit.



6. Rotate release lever on gear until the gear can be removed.



7. Remove screw from ground wire.



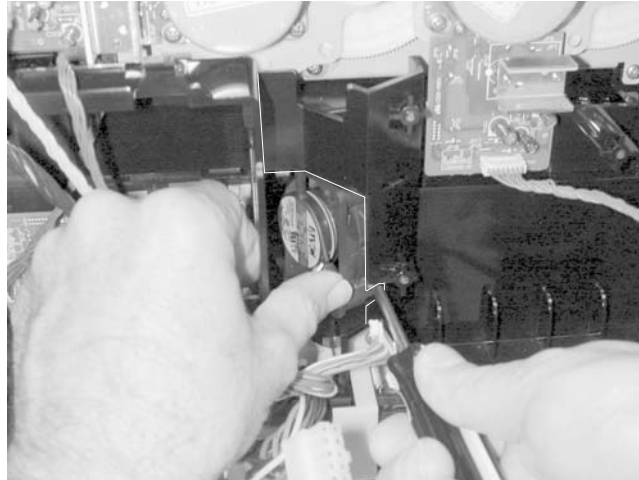
8. Remove vacuum belt transfer belt unit far enough to release ground wire from restraint clips and remove completely.



Vacuum transport belt (VTB) fan removal

See **“VTB fan” on page 7-41** for the part number.

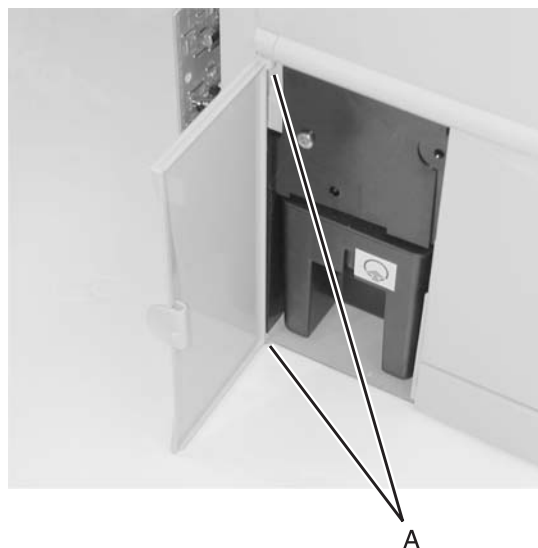
1. Remove the RIP board shield assembly. See **“RIP board shield assembly removal” on page 4-71**.
2. Remove the VTB fan with a flatblade screwdriver.



Waste container door removal

See **“Waste container door” on page 7-5** for the part number.

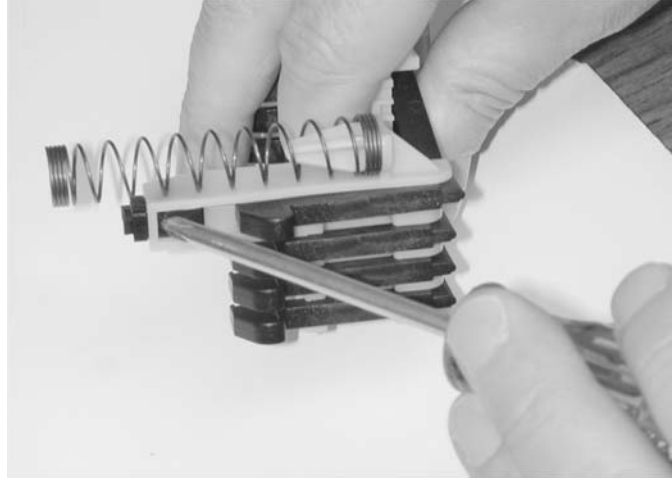
1. Open the waste container door.
2. Flex the door and remove it from the hinges (A).



Waste container latch removal

See **“Waste container latch” on page 7-18** for the part number.

1. Remove the paper size sensing assembly. See **“Paper size sensing assembly removal” on page 4-48**.
2. Use a flatblade screwdriver to release the waste container latch from the paper size sensing assembly.



Web oiler fuser kit installation

See **“Fuser web oiler upgrade kit and replacements” on page 1-4** for the part number.

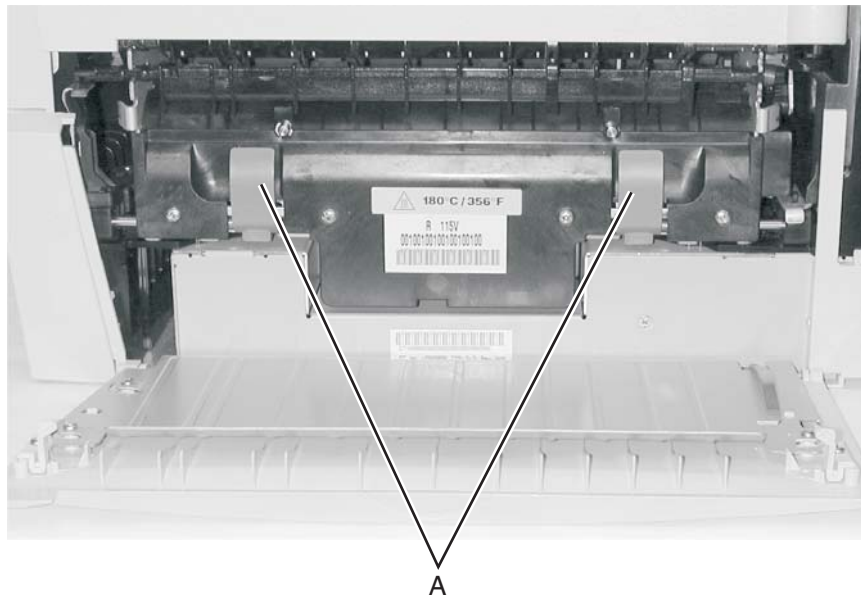
1. Enter CE Diagnostic mode.
2. Select **Printer Setup**.
3. Select **Configuration ID**.
4. Increase the last two digits each by four.

Configuration ID =123456*

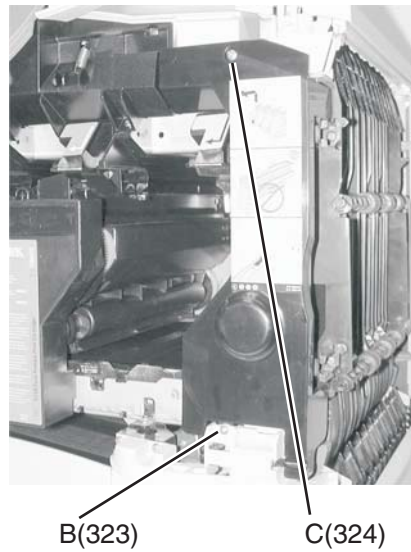
The left digit blinks, indicating it is the first digit to be changed. Press **Select** to accept the current value and skip to the next digit. Change the two digits on the right to increase each of their values by four. For example, in this case, change 1234**56** to 12349A. To change the value of a digit, press **Menu** until the desired value is displayed and press **Select**. When the last (rightmost digit) is changed and **Select** is pressed, the new value is set. The printer automatically begins POR.

5. Turn the printer off.
6. Open the fuser access cover.

7. Unlatch the two fuser latches (A).



8. Remove the fuser assembly.
9. Open the front cover.
10. Remove the yellow print cartridge.
11. Remove the front right light shield screws (B) and (C) and remove the light shield.



- 12.** Carefully remove the paper path access door cover right mounting screw (D).



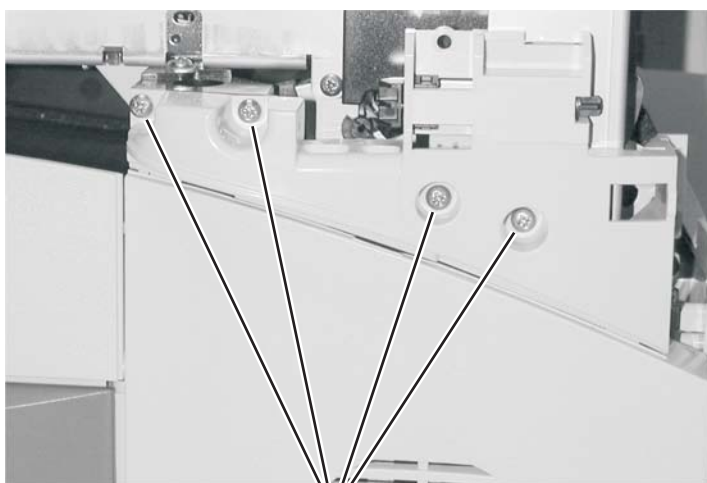
D(323)

- 13.** Tape front jam access door (E) if tape is available, to help hold the door in place.



E

- 14.** Remove the front right handle cover assembly screws (F) and remove the assembly.



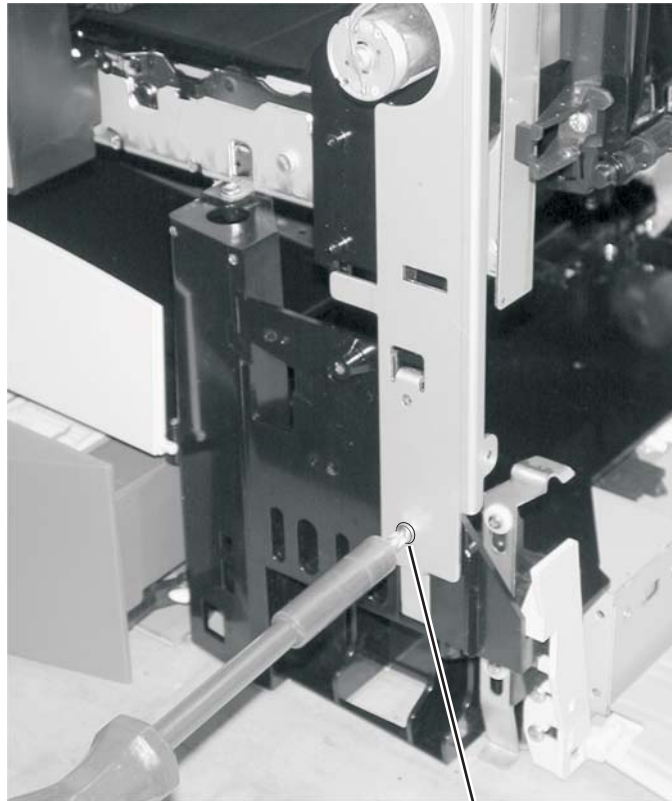
F(323)

- 15.** Open paper tray (G).



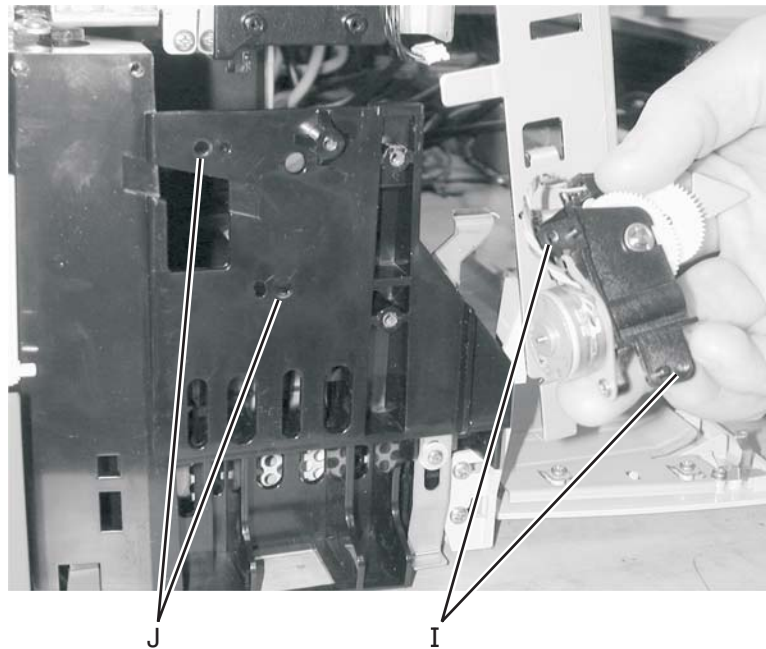
G

- 16.** Remove screw (H) from the top front support bracket. Swing bracket to the right.



H

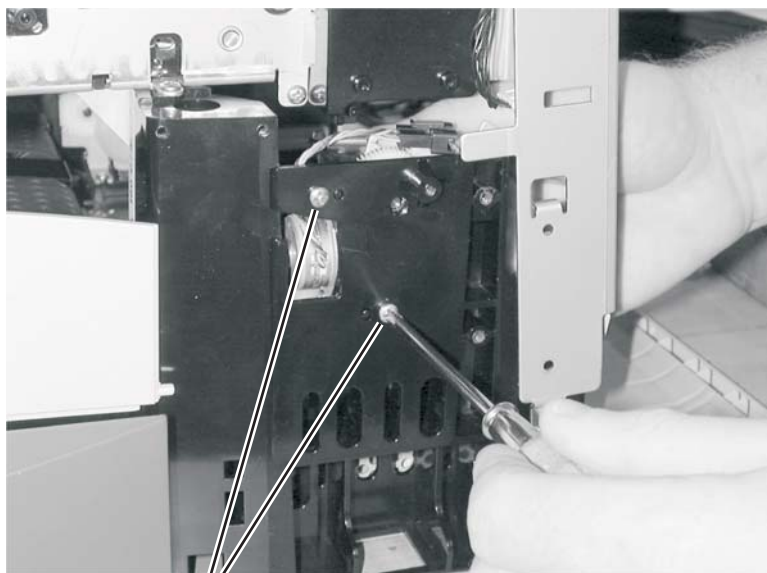
- 17.** Use the alignment pins (I) on the web oiler fuser motor assembly to position the assembly in holes (J) and install the assembly.



J

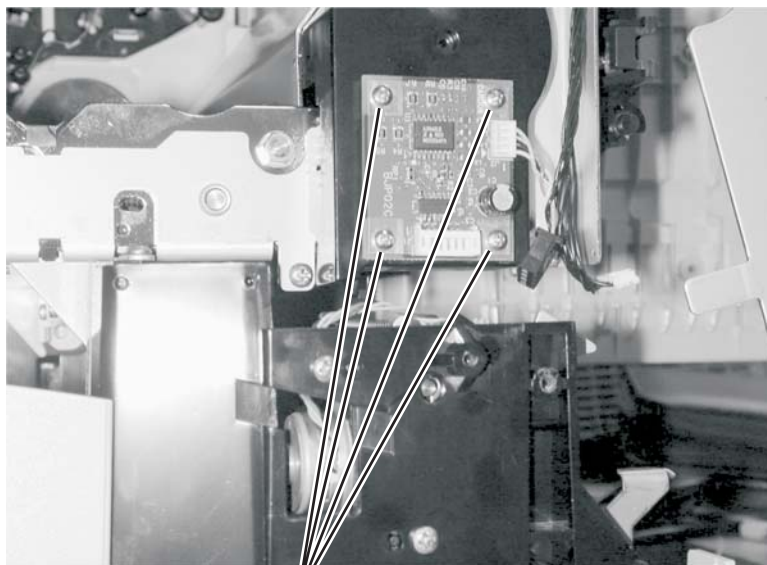
I

- 18.** Secure the web oiler motor assembly with screws (K).



K

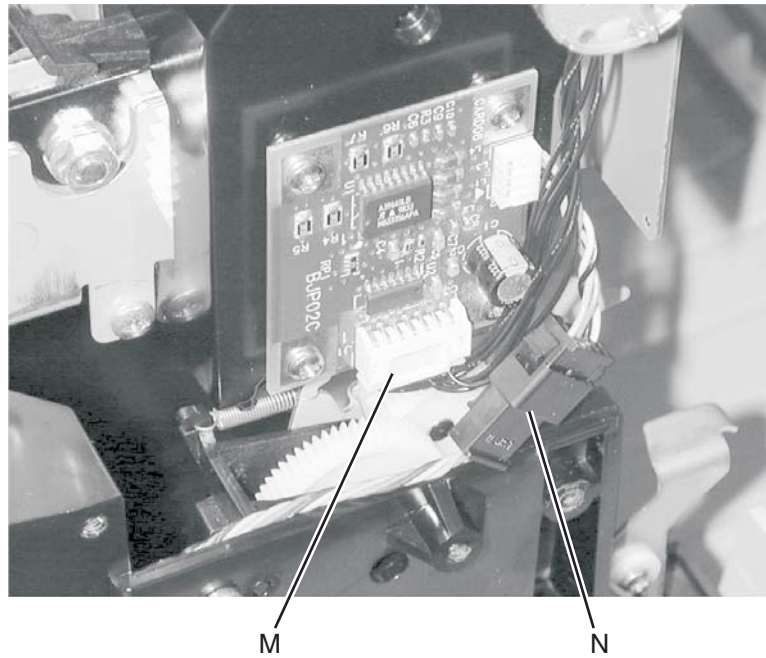
- 19.** Install the web oiler card using screws (L).



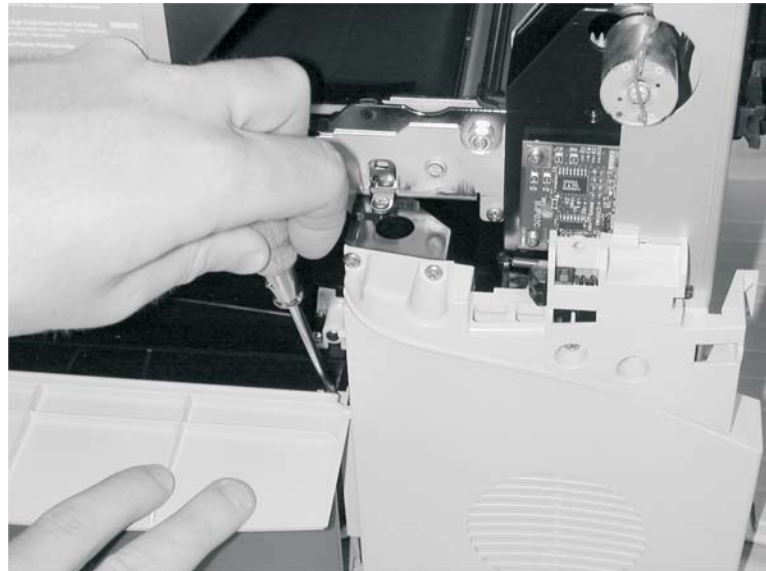
L

20. Plug web oiler cable into web oiler card connector (M). Plug web oiler drive assembly cable into cable connector (N).

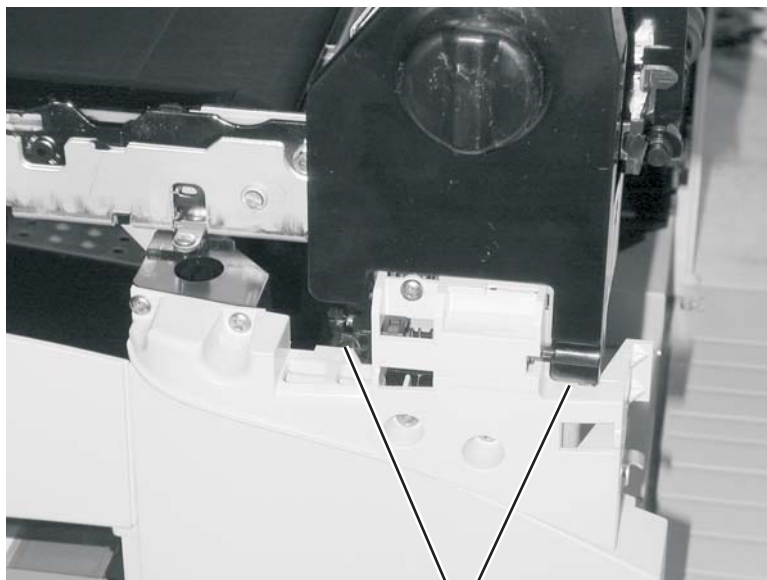
Note: Make sure the cables from the drive assembly are routed along the lower frame and are not in contact with the drive assembly gears.



21. Reinstall paper path access door.



- 22.** Align tabs on the front right light shield with the slots (O) on the frame.



O

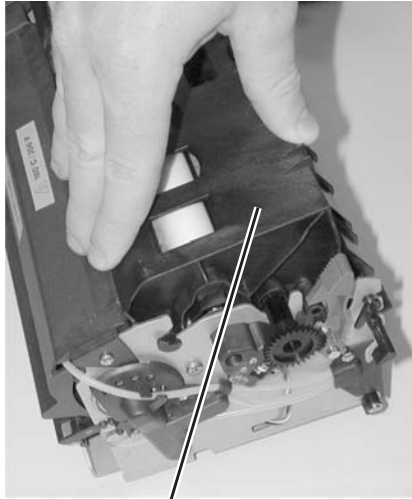
- 23.** Move the front right light shield up until alignment stud (P) and the screw hole (Q) are aligned.



Q

P

- 24.** Attach the new fuser web oiler fuser housing (R) to the new web oiler fuser.



R

- 25.** Insert the web oiler fuser assembly into the fuser assembly and install the fuser assembly into the printer.

