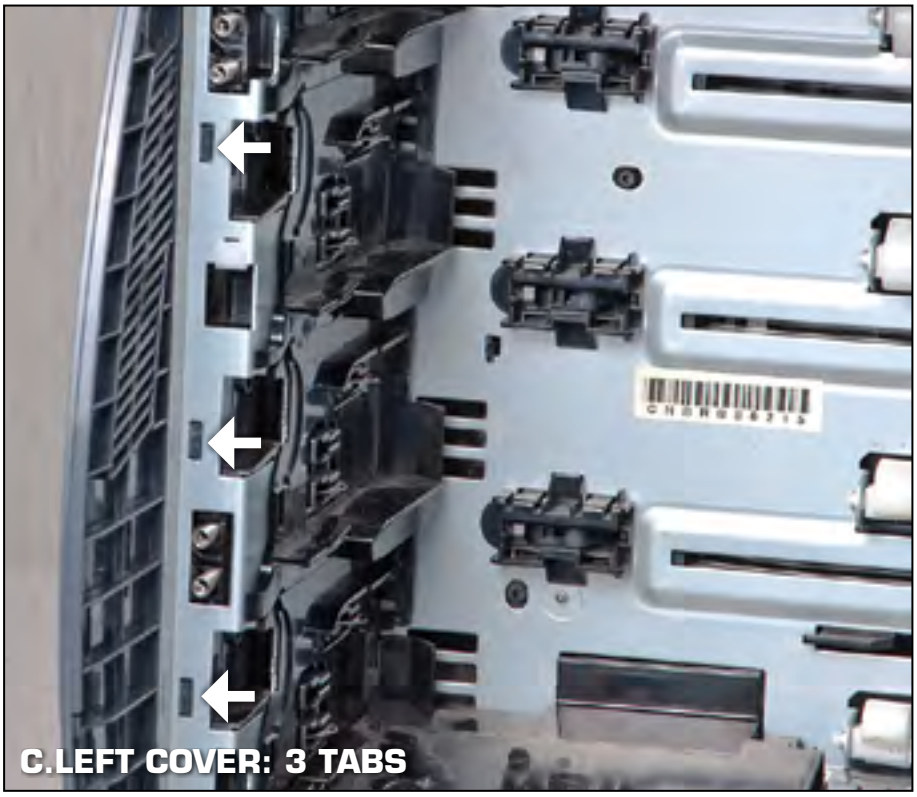
A. TOP COVER: 3 short screws, 1 long screw

B. LEFT COVER: 4 tabs, 2 screws


C.LEFT COVER: 3 TABS

LEFT-SIDE CARTR. LATCH REPLACEMENT

CLJ 3000, 3600, 3800, CP3505

This printer series is famous for various problems relating to the right-side toner cartridge latches. We covered this problem in the Winter *Service Edge*, available at lbrty.com.

The left-side cartridge latches also break, especially the uppermost (for the black cartridge). While the right latches contain the toner cartridge ground connections, the left ones simply secure and stabilize the cartridges. Broken left latches impede cartridge installation. The printer may even work normally if you can get the broken latch out of the way and install the cartridge, but replacement is best.

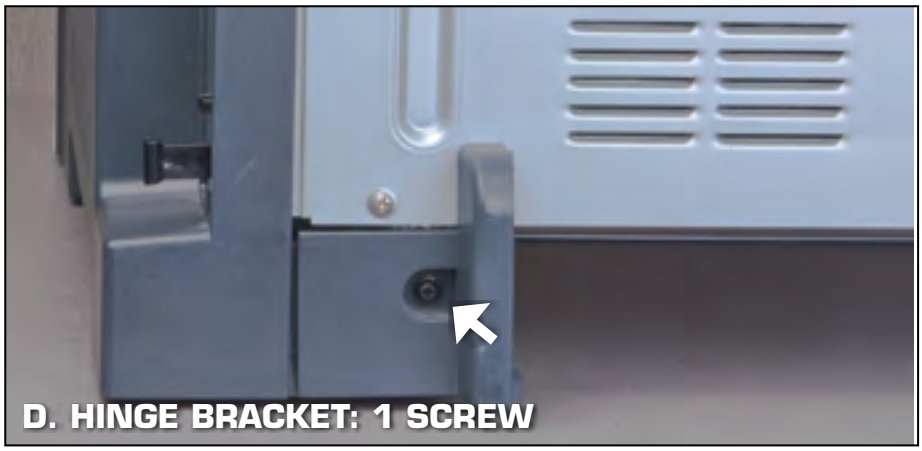
Since there is no procedure for replacing left-side cartridge latches in the service manuals, we provide one here.

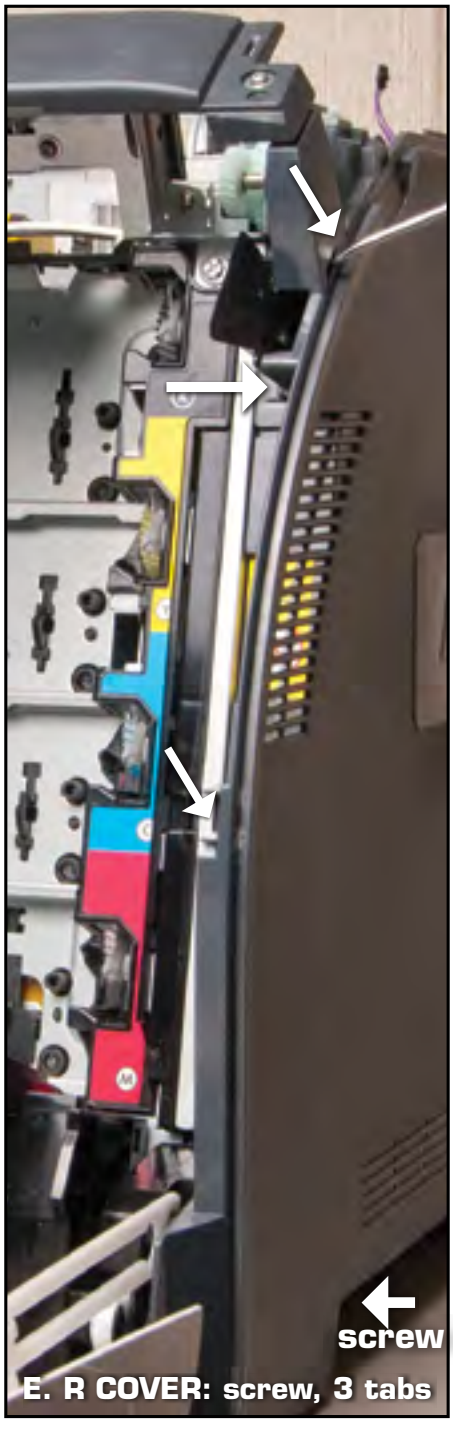
A shortcut: Steps 3-6a can be skipped if you have a foot of extra space alongside the printer. This space can be used to lay the power supply, as in the photo below. Letting it dangle could damage the attaching cables, which are irreplaceable.

Preliminaries: First, remove all consumables (toner cartridges, transfer belt, paper tray) and put

them in a safe place. Cover the toner cartridges – ambient light can damage them. Then remove the top output bin (rotate it toward the front of the printer until it pops out) and fuser (open the front upper cover, squeeze the two blue locking tabs, and lift the fuser out).

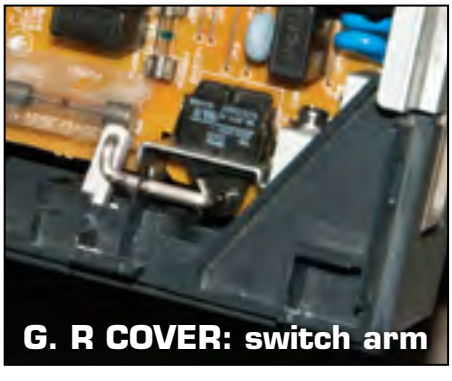
1. **Remove the Upper Cover**
   a. Remove four screws (Fig. A). Note that the one on the far right is longer than the others, and must be replaced in this same position when re-installing the cover. After removing the screws, lift the cover off of the printer, unplugging one cable on the right as you do so.
2. **Left cover, rear lower cover.** In the instructions for removing these covers, the service manuals say to remove the rear lower cover first, but that cover is mounted by hinge pins into the left cover and a hinge bracket on the right, and is difficult to remove without breaking the pins. We suggest removing the left cover first, and then the rear lower cover comes off easily (in fact, it will fall off if you don't catch it!).
   a. To remove the left cover, first remove two screws (Fig. B), then open the front door and release three tabs along the front edge of the cover (Fig. C), one in the upper front corner on the outside (Fig. B) and two in the rear (Fig. B). As you pull the rear edge of the cover away from the printer, support the rear lower cover with your other hand, and remove it once the left cover is clear of the hinge pin.
   b. To finish removing the left cover, pull it toward the rear to release the last remaining


D. HINGE BRACKET: 1 SCREW

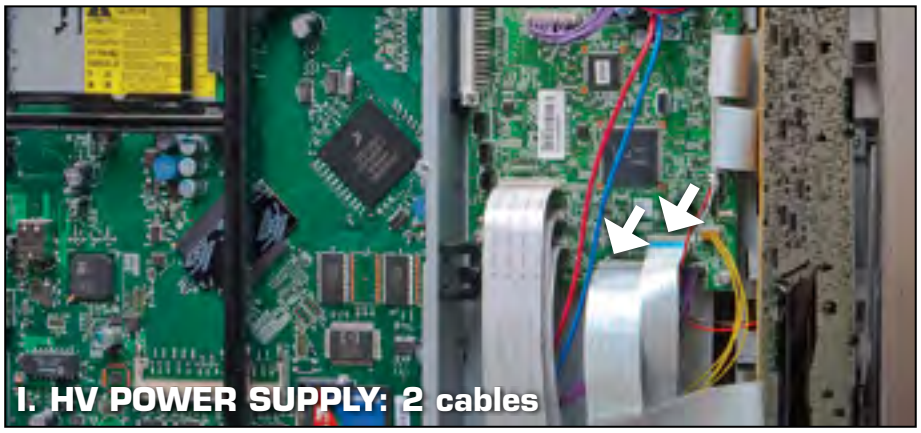


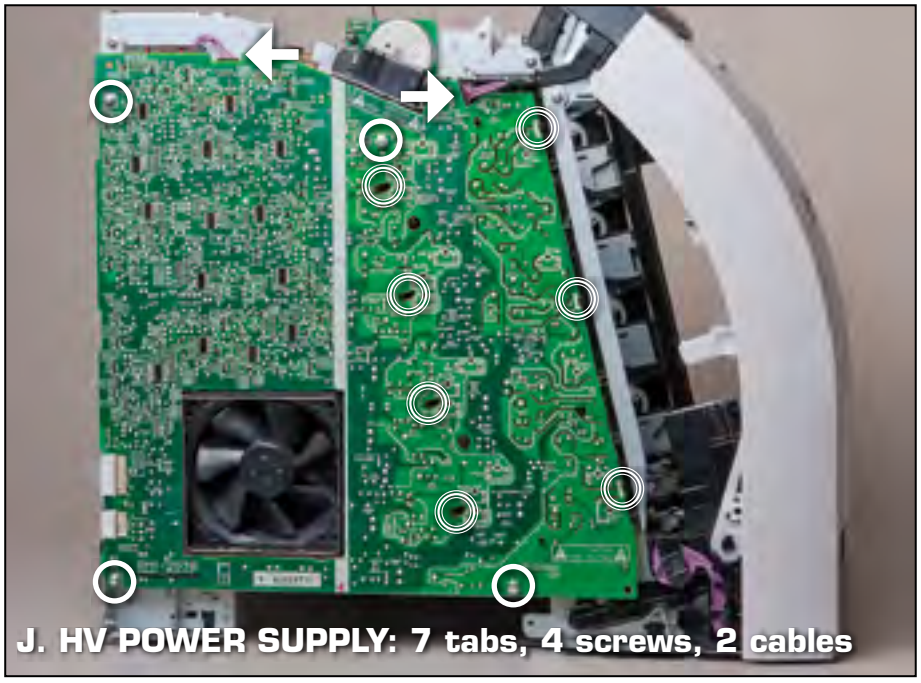
E. R COVER: screw, 3 tabs


F. R COVER: 2 rear tabs


G. R COVER: switch arm


H. REAR UPPER COVER: 10 screws


I. HV POWER SUPPLY: 2 cables


J. HV POWER SUPPLY: 7 tabs, 4 screws, 2 cables

retaining tab in the lower front corner (Fig. B). When re-installing the cover, insert this tab first.

SKIP TO 6b IF YOU ARE TAKING THE SHORTCUT MENTIONED ON PAGE 4.

3. ***Hinge Bracket*** *Remove the hinge bracket by removing one screw (Fig. D). When re-assembling the printer, install the hinge bracket first, then the left cover, but install the rear lower cover before seating the rear edge of the left cover.*

4. ***Right cover:*** *You may want to remove the formatter board (in the rear of the printer – it pulls out the right side) before removing this cover, but it is not necessary.*
   a. *Remove one screw from the cover (Fig. E), then use a pick or flat-blade screwdriver to release three tabs along the front edge (Fig. E). Finally, release the two tabs along the rear edge (Fig. F).*
   b. *As you pull the cover away from the printer, remove the power-switch arm (Fig. G). Take care when re-installing this arm – it should look like the photo, and the longer post should go into the actual power switch (in the printer body), with the shorter post going into the switch actuator (in the cover). If you get this backwards, it will not only be harder to install, but it can come into contact with the fuse, causing a destructive short circuit.*
   c. *Re-installing the cover itself is tricky. Seat the rear edge first, taking care to get it flush with the formatter cavity (there are plastic tabs on the cover that mate with the rear edge of the cavity), then hook up the power-switch arm, then seat the front edge of the cover. CAUTION: the front edge*

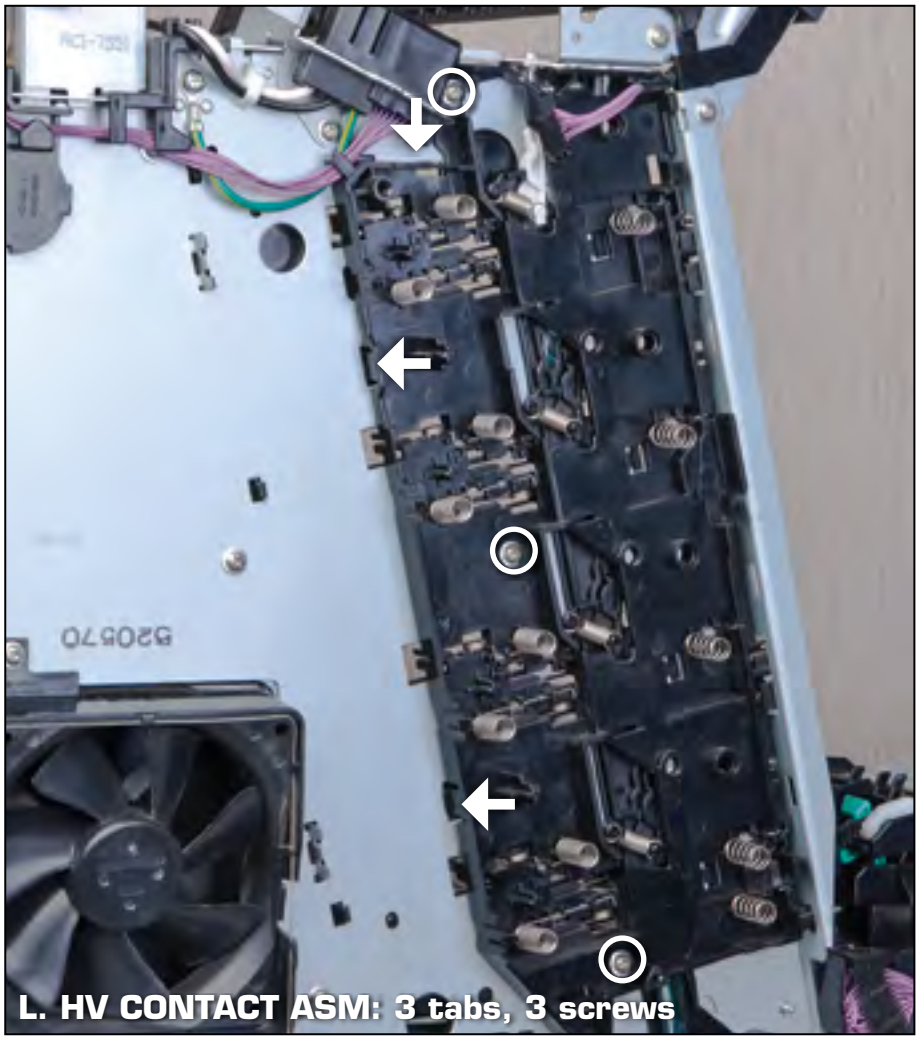
will not seat fully unless the front door of the printer is all the way open.

5. ***Rear upper cover.***
   a. *Remove 10 screws (Fig. H) and lift the cover off. Note that the central screw secures a small access door. This door will probably come off when the screw is removed.*

6. **High-voltage power supply.**
   a. *If you didn't take the shortcut, carefully unplug two flat flexible cables from the dc controller board in the back (Fig. I).*
   b. Unplug two cables from the high-voltage power supply board (Fig. J).
   c. Remove four screws (Fig. J), release seven retaining tabs (Fig. J).
   d. If you didn't take the shortcut, remove the power supply.
   e. If you took the shortcut: simply lay the power supply on the table next to the printer. This requires some care, because the board is now supported only by those two cables. It is best to support the board by placing something under it (perhaps a book or two). Do not, under any circumstances, place anything on top of the board, and do not allow it to dangle with its full weight on the cables. Remove the board (or lay on table if you took the shortcut).

7. **High-voltage contact asm.**
   a. Remove one screw in the front (Fig. K) and three on the side (Fig. L), then release three retaining tabs (Fig. L), rotate the rear of the assembly away from

K. HV CONTACT ASM: 1 screw


L. HV CONTACT ASM: 3 tabs, 3 screws

the printer, and then pull it toward the rear to remove it.

b. When re-installing, seat the front end first. Note that the upper rear corner of the assembly acts as a cable guide – make sure to re-route these cables under the corner when re-installing.

8. **Cartridge Locks.** Now you can see the four cartridge locks and the left lock slide lever that controls them. Fig. M (left) shows the lever in the down position (transfer roller holder rotated down, cartridge locks open); Fig. M (right) shows the lever up (transfer roller holder rotated up, cartridge locks closed). Be careful if you move the lock slide lever up and down after removing the high-voltage contact assembly – there is nothing holding the cartridge locks onto their posts except spring tension, and they can and will fall off! Fig. M shows a close-up of the uppermost cartridge lock (for the black cartridge), which is different from the other three, and is the most likely one to break.

a. To remove any of the cartridge locks, simply pull it off the metal mounting post and then detach the spring. Use Fig. M as a guide when mounting the new part. If the lock slide lever comes off or is replaced, note that it has two vertical slots which mount onto metal brackets (visible in both photos). Make sure to line this up correctly – if you do not, it will be impossible to re-install the high-voltage contact assembly.

Once you have replaced the necessary parts, simply reverse the above steps to re-assemble the printer.

Part numbers:

RC1-7618 Left upper lock lever (for black cartridge)

RC1-6633 Left lower lock lever (for any of the three color cartridges)

RC1-6634 Tension spring (for any of the four lock levers)

RC1-6636 Left lock slide lever (the long vertical piece)

RC1-6638 Left slide cam (below the lock slide lever)