

Delivery unit

- 1 Remove the following covers:
 - Top left cover. See page 215.
 - Left back cover. See page 224.
- 2 Open the fuser access door.

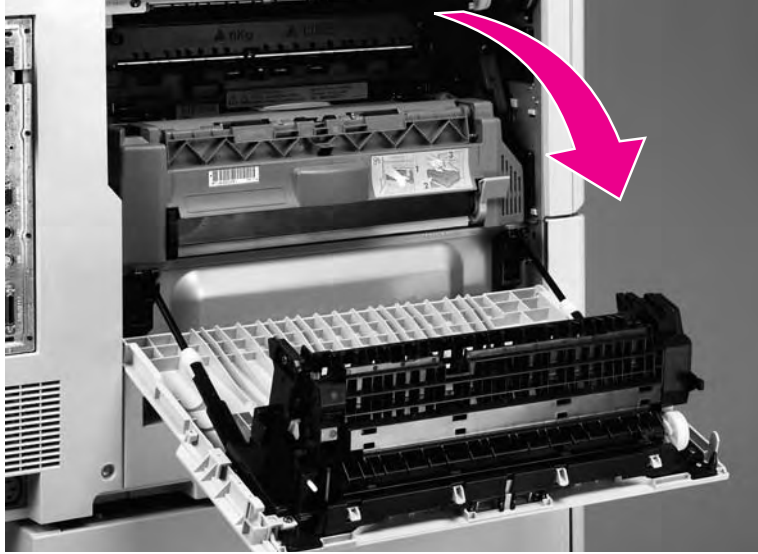


Figure 144. Gain access to the delivery unit

- 3 Push down the top of the left side front cover, and remove it by pulling out from the middle of the cover.

Hint

Removing the left front door might make it easier to remove the left side front cover.

Note

Make sure to depress the tab at the top of the left side front cover so that the plastic pin can be removed.



Figure 145. Remove the left side front cover

- 4 Remove four screws (callout 1) and two shields (callout 2).

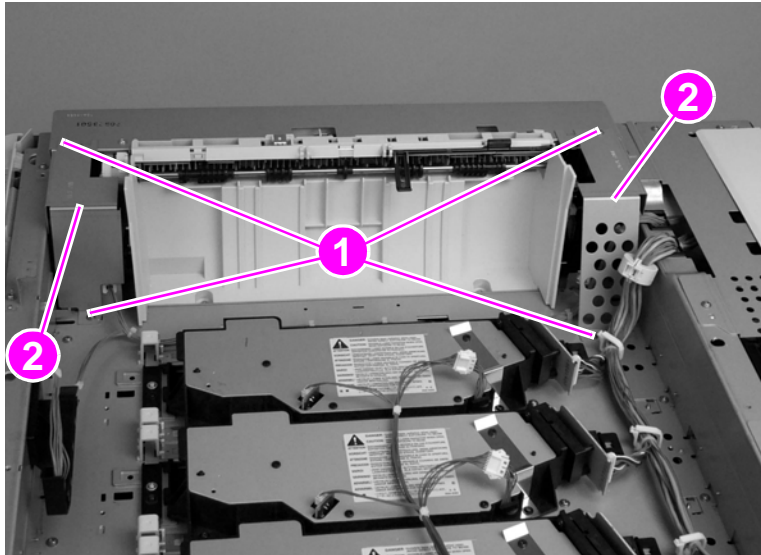


Figure 146. Remove the delivery unit shields

- 5 Disconnect two connectors (callout 3).

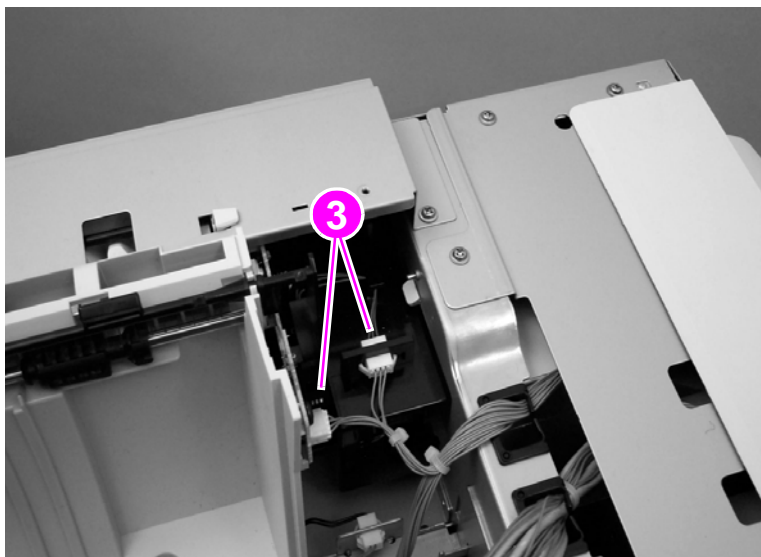


Figure 147. Disconnect the delivery unit connectors

6 Remove five screws (callout 4)

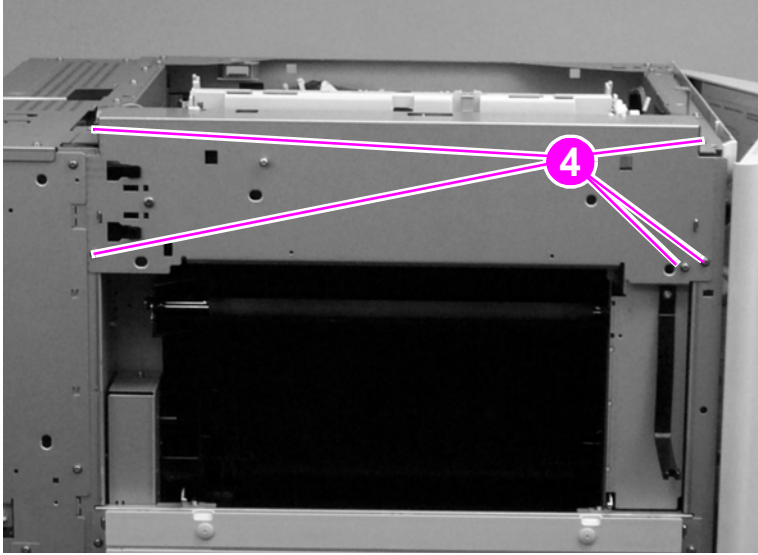


Figure 148. Remove the delivery unit mounting screws (1 of 2)

7 Remove two screws (callout 5).

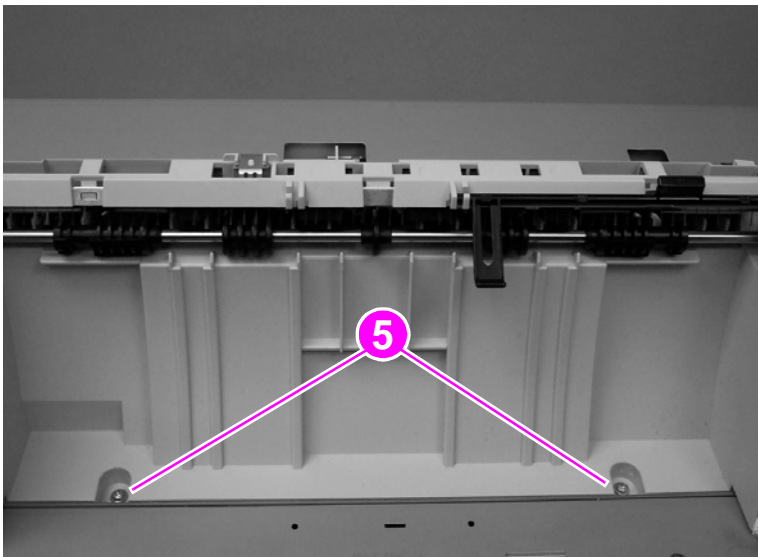


Figure 149. Remove the delivery unit mounting screws (2 of 2)

8 Remove the delivery unit.

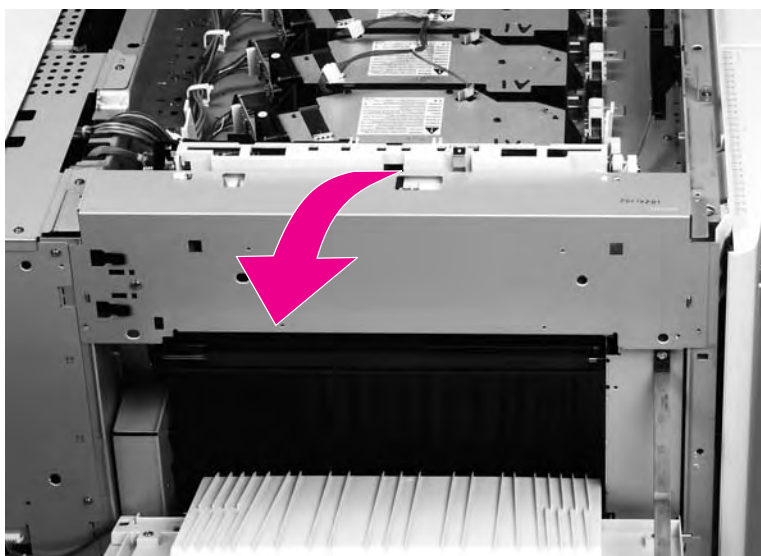


Figure 150. Remove the delivery unit

Delivery unit sensor

- 1 Perform steps 1 through 8 for the delivery unit. See page 249.
- 2 Remove one screw (callout 1).

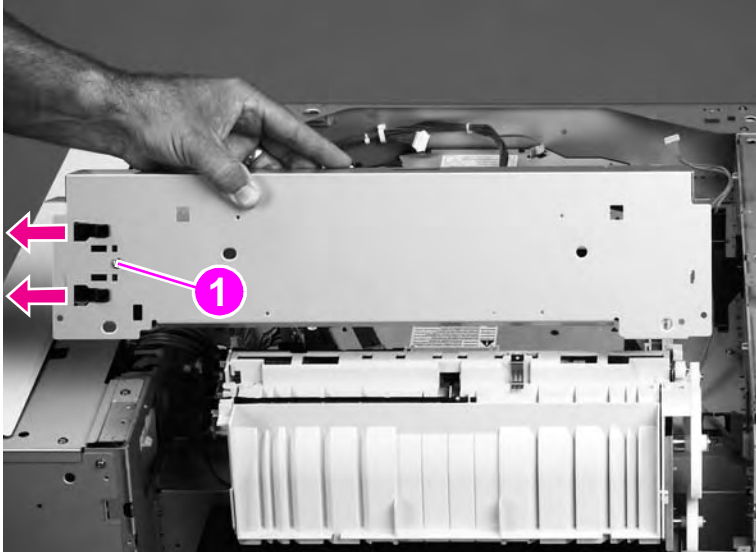


Figure 151. Remove the delivery unit sensor

- 3 Remove the delivery unit sensor.

To reinstall

Install the delivery unit sensor on the replacement delivery unit.

Vertical feed unit

- 1 Remove the following covers and assemblies:
 - Top left cover. See page 215.
 - Delivery unit. See page 249.
- 2 Disconnect one connector (callout 1), and one retaining strap (callout 2), and remove one screw on the holding clamp (callout 3).

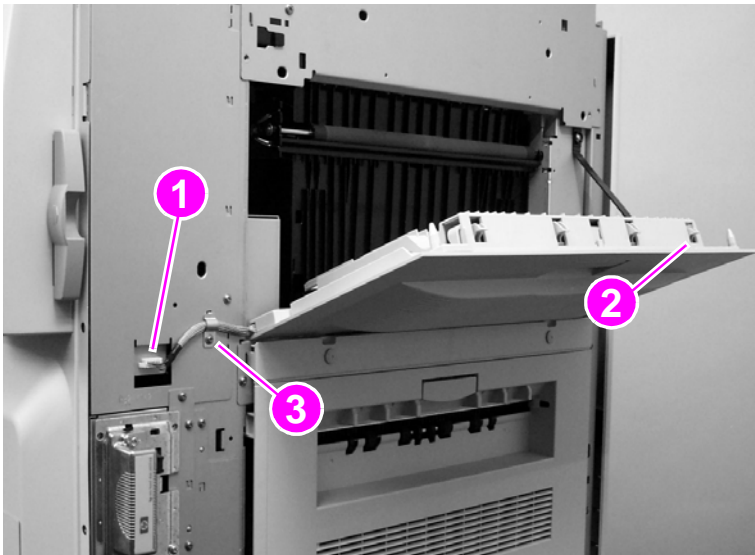


Figure 152. Gain access to the vertical feed unit

- 3 Lower the paper-path access door to a horizontal position.
- 4 To remove the door, pull the right side of the paper-path access door to the right.



Figure 153. Remove the paper path access door

- 5 Open the fuser access door.

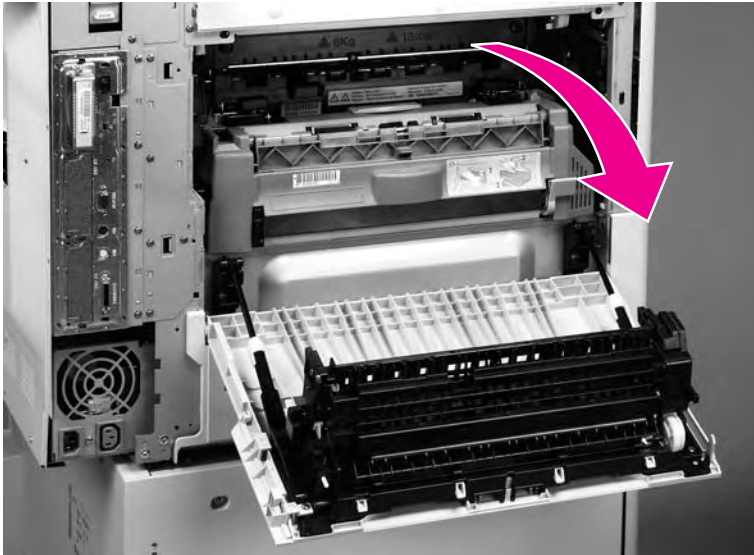


Figure 154. Gain access to the left side middle cover mounting screws

- 6 Remove two screws (callout 4).

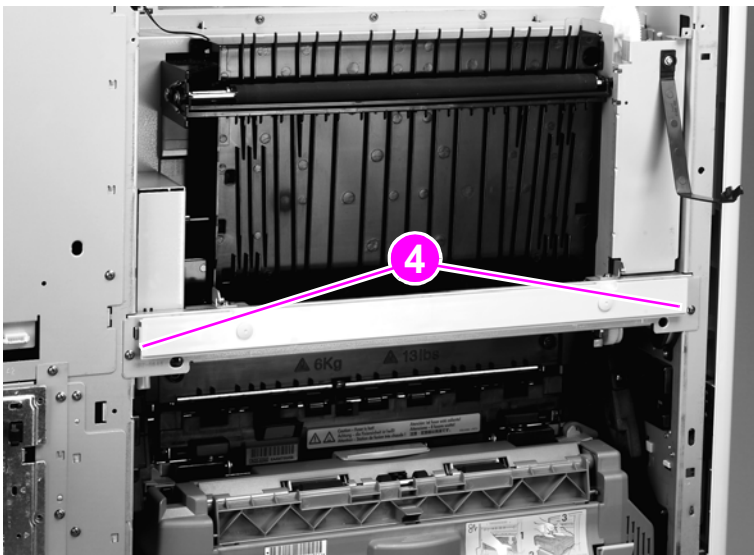


Figure 155. Remove the left side middle cover mounting screws

- 7 Remove the left side middle cover mounting bracket.



Figure 156. Remove the left side middle cover mounting bracket

- 8 Remove three screws (callout 5), and disconnect one connector (callout 6).

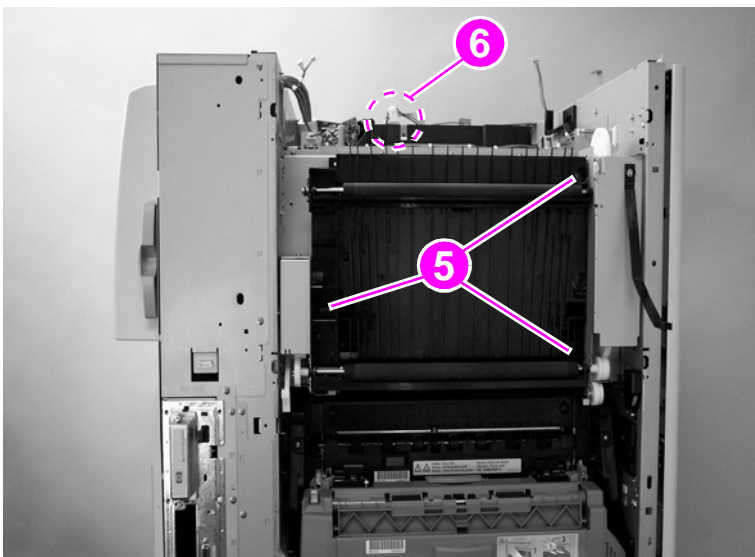


Figure 157. Remove the vertical feed unit mounting screws

9 Remove the vertical feed unit.

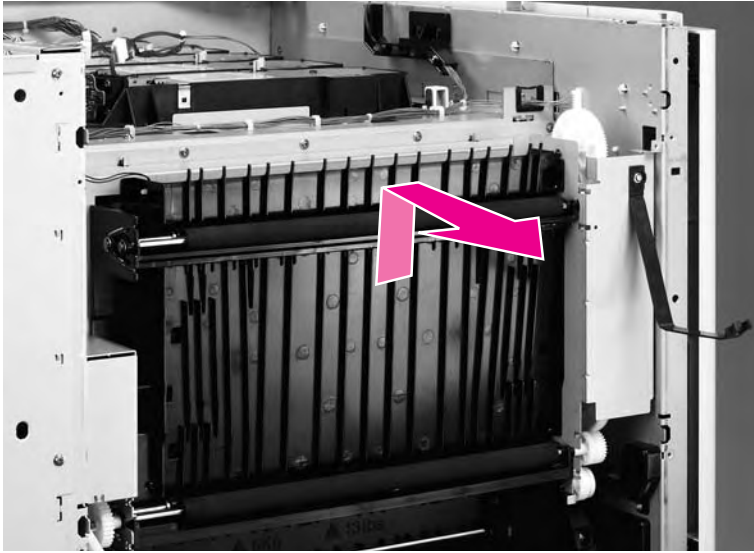


Figure 158. Remove the vertical feed unit

Note When replacing the vertical feed unit, make sure to reconnect the connector.

Duplexer

- 1 Open the fuser access door.

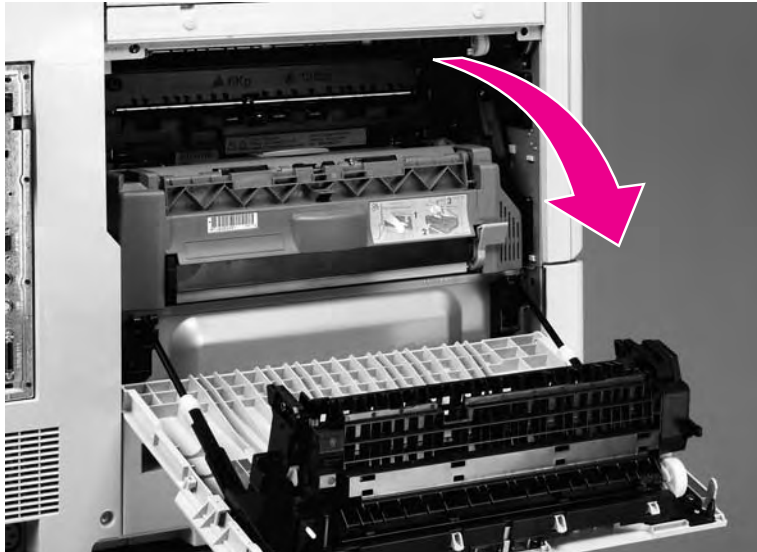


Figure 159. Gain access to the duplexer

- 2 Depress the green lever (callout 1), and pull the duplexer out until it stops.



Figure 160. Remove the duplexer

- 3 Tilt the duplexer up and remove it.

Fuser

- 1 Remove the duplexer. See page 258.
- 2 Rotate the two blue tabs inward.

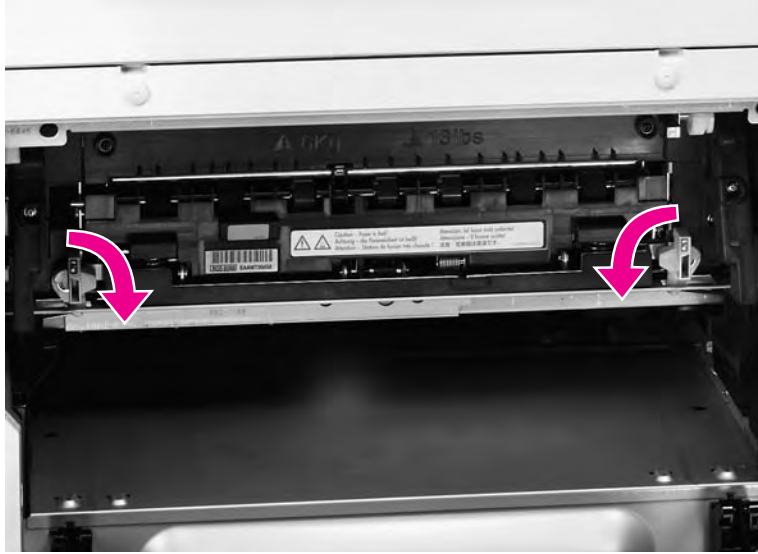


Figure 161. Unlock the fuser

- 3 Slightly lift up the fuser and pull it out.



Figure 162. Remove the fuser

Intermediate transfer belt (ITB)

- 1 Open the front doors.

Note

Make sure that the green handle is down.

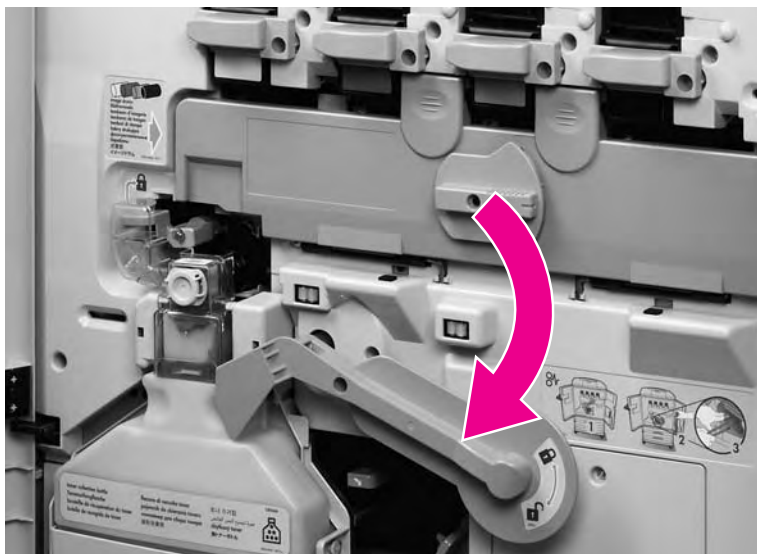


Figure 163. Release the ITB

- 2 Open the ITB door.



Figure 164. Open the ITB door

- 3 Grasp the blue handle, and slide the ITB out until it stops.

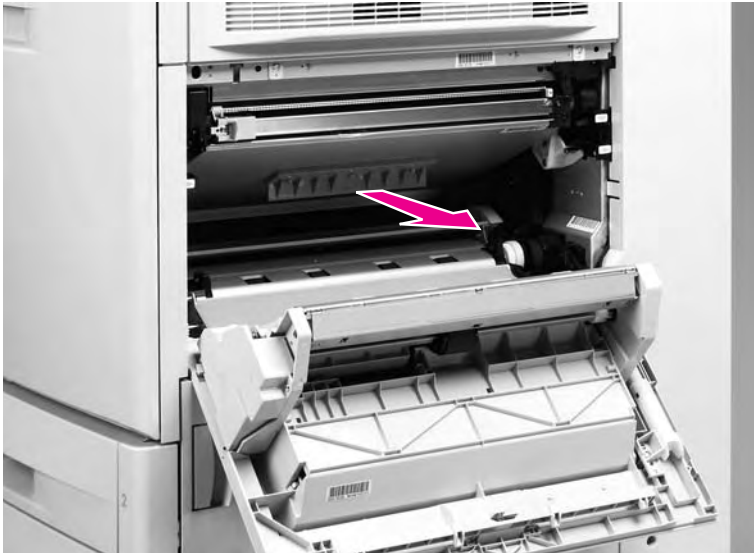


Figure 165. Slide the ITB out of the printer

CAUTION Do not let anything touch the surface of the ITB.

- 4 Depress the two blue levers (callout 1), and remove the ITB.

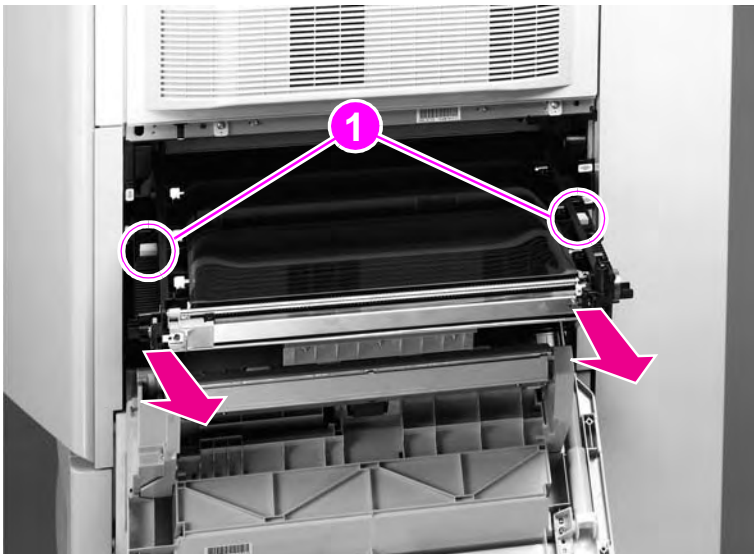


Figure 166. Remove the ITB

CAUTION Make sure that you set the ITB on a flat, clean surface.

Density and registration sensor assembly

- 1 Remove the following covers and FRUs:
 - Upper right cover. See page 210.
 - Right back cover. See page 227.
 - Back cover. See page 228.
 - Intermediate transfer belt (ITB). See page 260.
- 2 Remove one screw (callout 1), and remove the right front cover (callout 2).

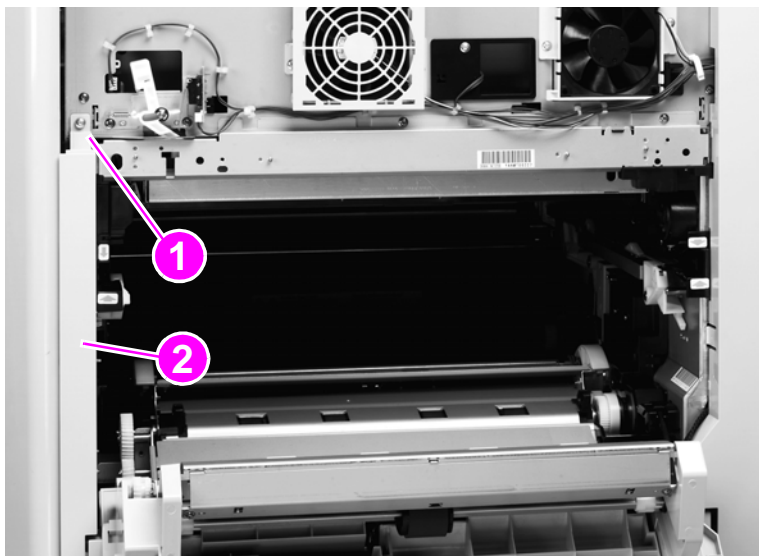


Figure 167. Remove the right front cover

- 3 Remove four screws (callout 4).

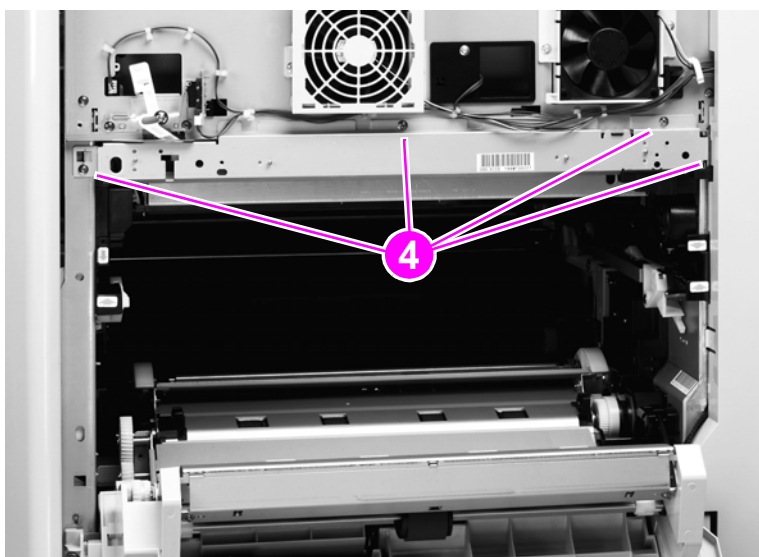


Figure 168. Remove the density and registration sensor mounting screws

- 4 Disconnect one connector (callout 5) and two clips (callout 6) from the post charger power supply.

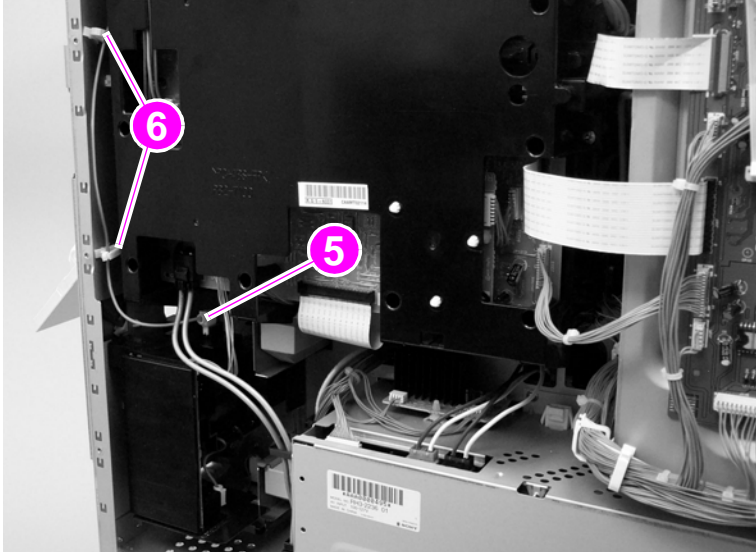


Figure 169. Disconnect the density and registration sensor connector

- 5 Unclip two wire retainers (callout 7) and feed the wire through the hole in the chassis (callout 8; in this picture, the wire has already been passed through the hole in the chassis).

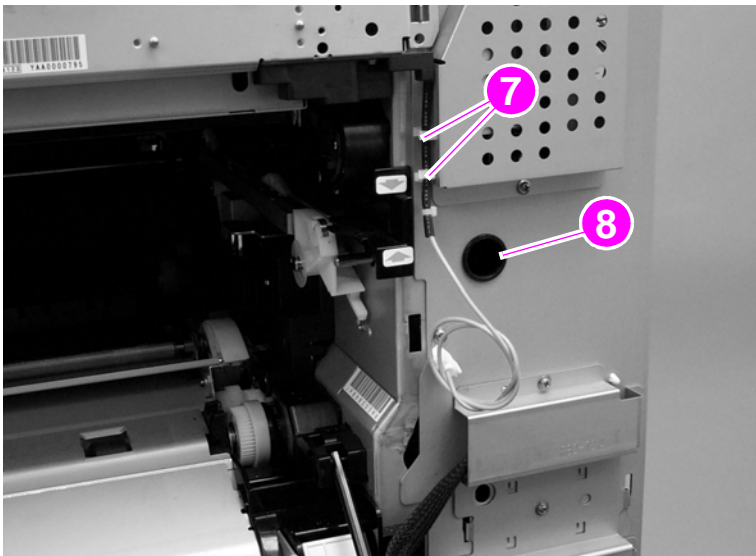


Figure 170. Unclip the density and registration sensor wire retainers

- 6 Open the right front door to release the density and registration shutter. Remove the density and registration sensor assembly from the printer.

CAUTION

When removing the density and registration sensor assembly, do not damage the sensor shutter where it contacts the front right door shutter lever (make sure you re-link this assembly when reinstalling).

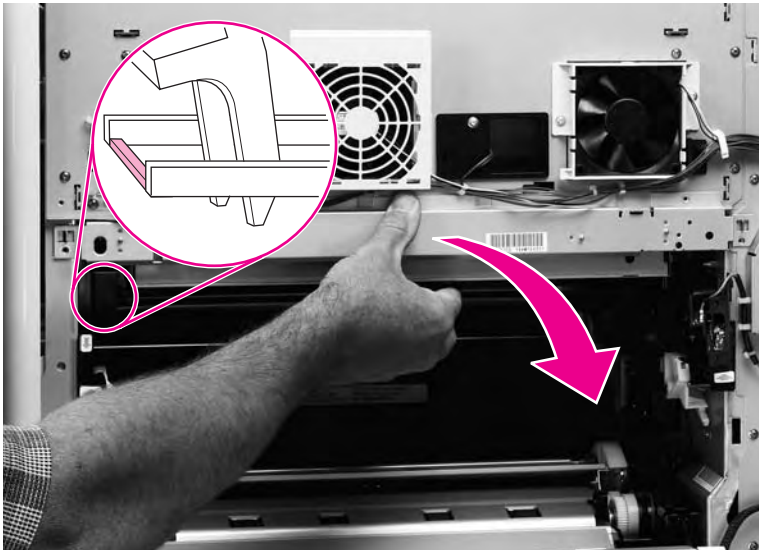


Figure 171. Release the density and registration sensor assembly

- 7 Disconnect three connectors (callout 9), unclip four cable clamps (callout 10), and thread the harness out.

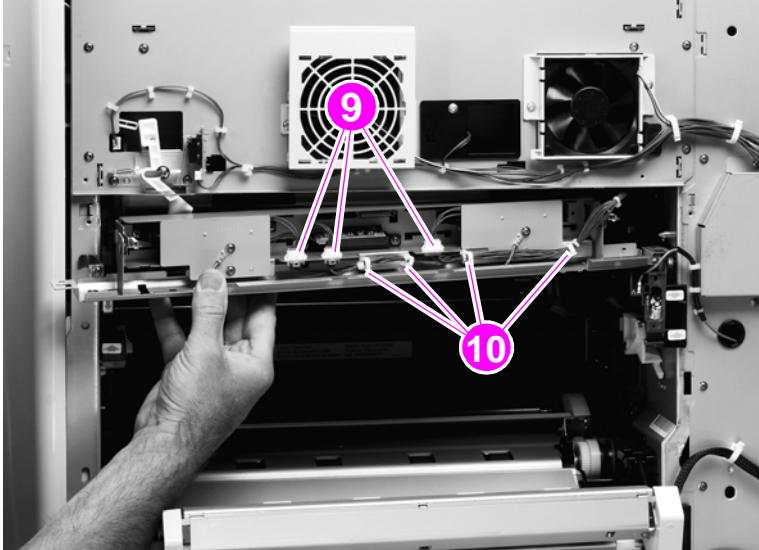


Figure 172. Remove the density and registration sensor assembly

- 8 Remove the density and registration sensor.

CAUTION

Make sure that you do not bend the copper grounding strip. Make sure not to pinch any wires when reinstalling the density and registration sensor.

Make sure that the sensor shutter assembly is linked correctly to the front right door lever so the shutter moves to the open position when the door is closed. If the printer continuously tries to self-calibrate after this assembly is replaced, verify that the shutter is correctly linked to the door, is not damaged, and can freely move to the open position.

Right back fan

- 1 Remove the following covers:
 - Right upper cover. See page 210.
 - Right back cover. See page 227.
- 2 Disconnect one connector (callout 1) and unclip one wire clip (callout 2).
- 3 Remove one screw (callout 3) and one metal harness retainer (callout 4).
- 4 Remove two screws (callout 5).

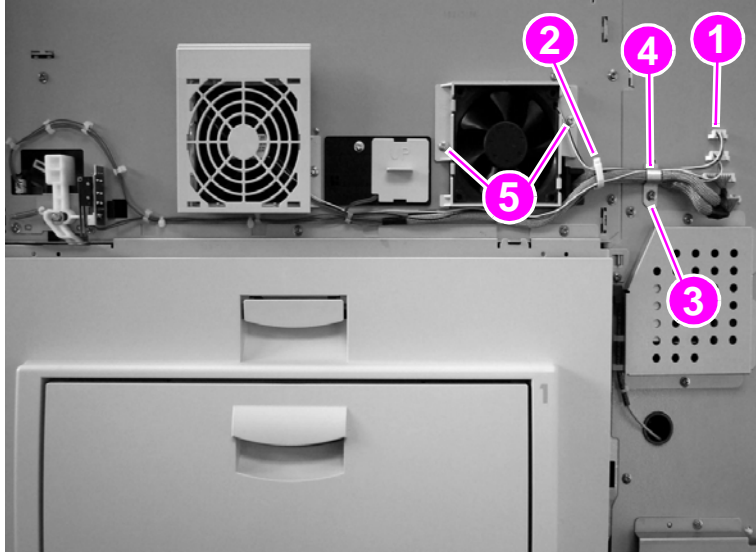


Figure 173. Remove the right back fan

- 5 Remove the right back fan.

Right front fan

- 1 Remove the following covers:
 - Right upper cover. See page 210.
 - Right back cover. See page 227.
- 2 Disconnect one connector (callout 1) and Unclip one wire clip (callout 2).
- 3 Remove one screw (callout 3) and one metal harness retainer (callout 4).
- 4 Remove two screws (callout 5).

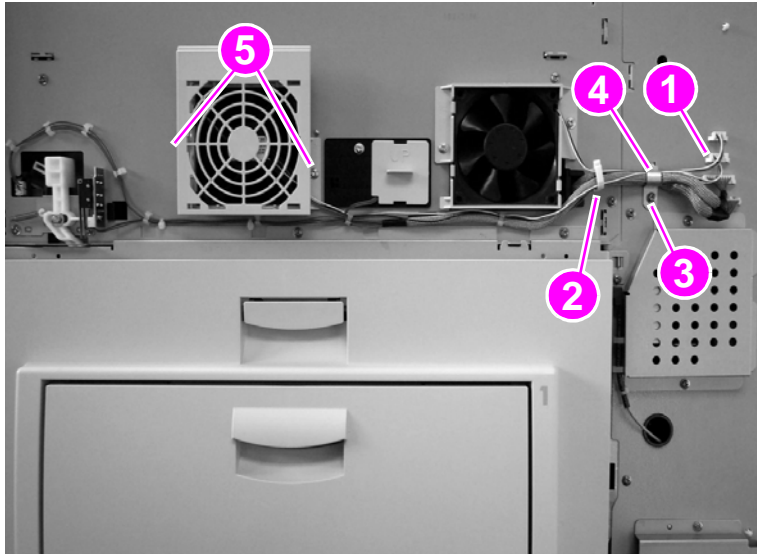


Figure 174. Remove the right front fan

- 5 Remove the right front fan.

Secondary transfer assembly (T2)

- 1 Remove the following FRUs:
 - Four process cartridges. See page 203.
 - Transfer roller. See page 207.
 - Duplexer. See page 258.
 - Fuser. See page 259.
 - Intermediate transfer belt. See page 260.

Hint

Removing the front right door might make it easier to remove the secondary transfer assembly.

- 2 Remove one screw (callout 1), and remove the T2 access cover (callout 2).

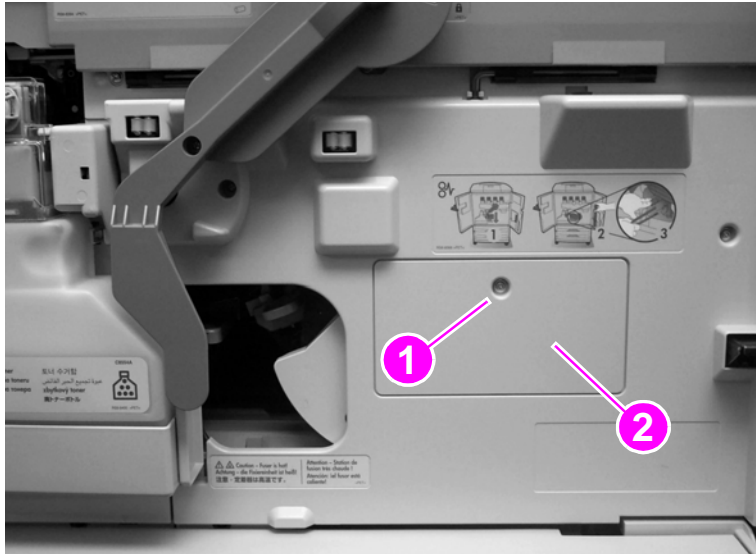


Figure 175. Remove the T2 cam access door

- 3 Remove two screws (callout 3), and remove the plastic bearing surface (callout 4).

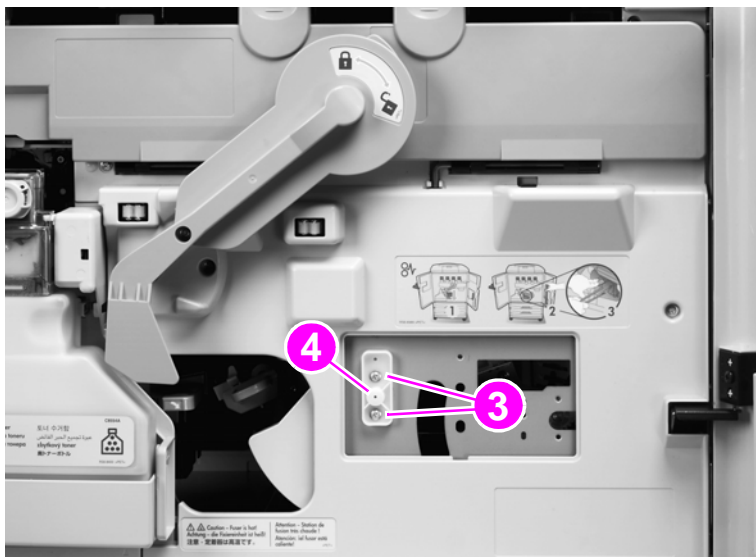


Figure 176. Remove the T2 bearing surface

- 4 Remove the link cover (callout 5).

Note

The green lever must be up.

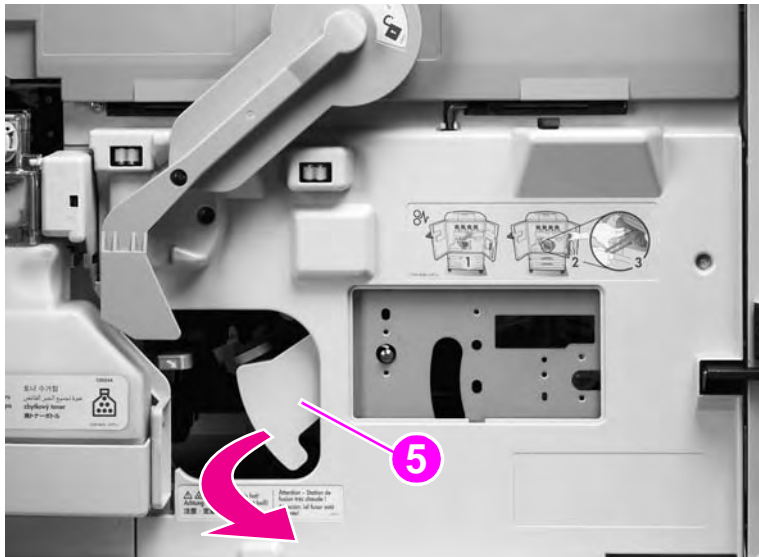


Figure 177. Remove the T2 link cover

- 5 Slide the spring (callout 6) off the shaft to the left and out of the chassis.

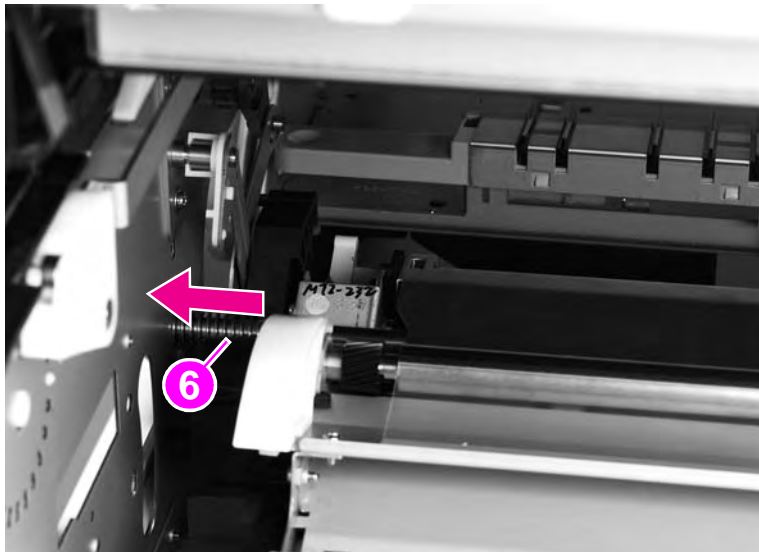


Figure 178. Remove the T2 cam spring

- 6 Lower the green handle.

7 Remove the cable cover by pinching its sides (callout 7).

CAUTION

Make sure to remove the cable cover carefully, because the cables are retained in the channel on the right side of the cover.

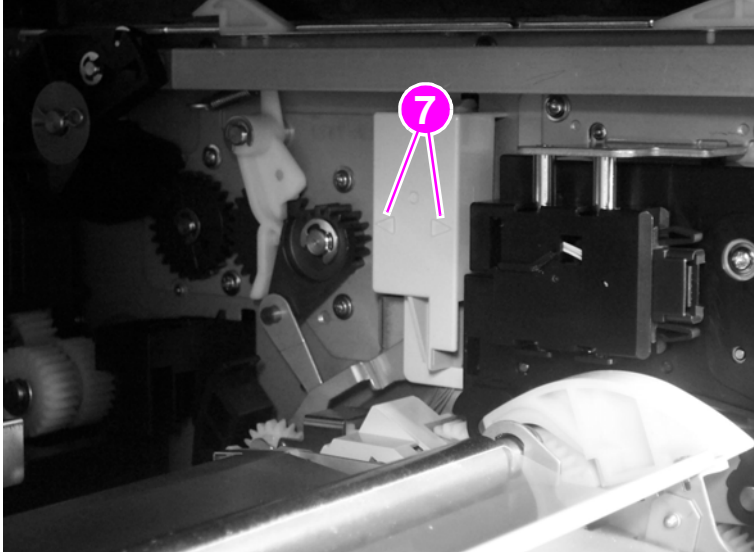


Figure 179. Remove the T2 wire harness cover

8 Disconnect one connector (callout 8), and remove two links (callout 9 and 10).

Note

Remove the link (callout 9) by lifting it up and pulling it away from the shaft. Remove the link (callout 10) from the shaft by sliding it directly off the shaft.

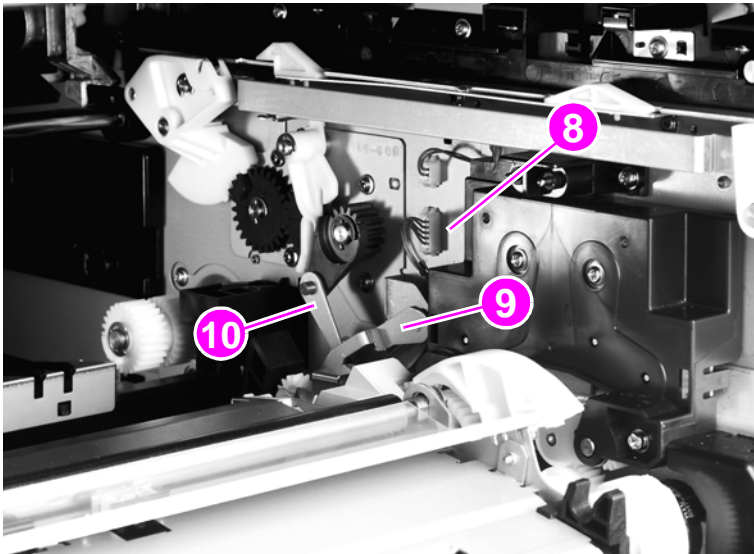


Figure 180. Remove the T2 link (1 of 2)

- 9 Remove the closest link (callout 11) first. Remove the link by unsnapping the plastic collar and sliding the link out. This link (callout 11) is not captive

CAUTION

This link is *not* included when ordering a replacement or exchange secondary transfer assembly. Do not lose this link.

- 10 Remove the other link (callout 12) by pushing the link up and pulling it out.

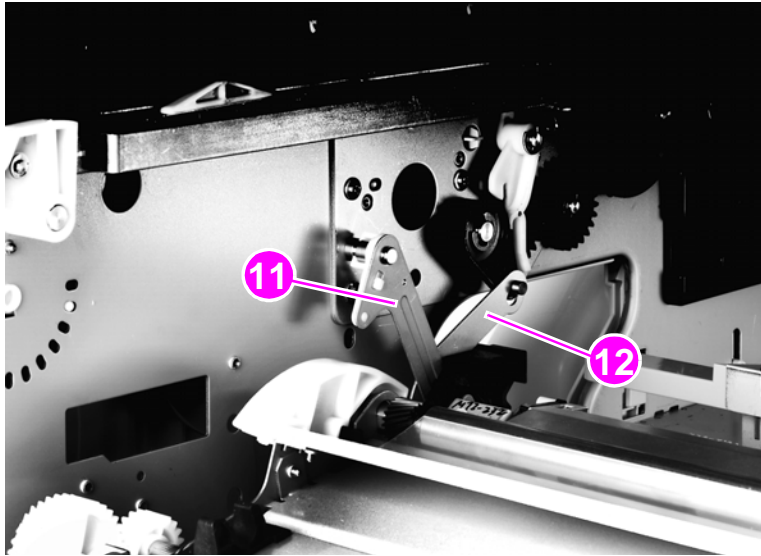


Figure 181. Remove the T2 link (2 of 2)

- 11 To remove the secondary transfer assembly:
 - a Position yourself on the right (ITB access) side of the printer.
 - b Grasp the secondary transfer assembly with both hands.
 - c Rotate the secondary transfer assembly up and toward you.
 - d Slide the secondary transfer assembly to the left.
 - e Swing the right side of the secondary transfer assembly up and toward you.
 - f Remove the secondary transfer assembly.

CAUTION

Make sure that you do not bend the links.



Figure 182. Remove the T2 assembly

To reinstall

- Make sure that the four links are positioned upward.
- Make sure that the green lever is down.
- Locate the secondary transfer assembly shaft hole before replacing the assembly.
- The reinstall motion is the opposite of the removal motion.
- Make sure that the connector is not entangled when reinstalling the links.
- Make sure that the four links are reinstalled correctly and functioning properly. Test this by gently rotating the green lever to verify that motion is not impeded.

CAUTION

Do not force the green lever if it does not rotate easily.

- Make sure that both connectors are firmly seated and that the cover does not pinch the wires. The cover must be installed, because it retains a link.
- To reinstall the finger guard, pull back on the spring and push the finger guard onto the large shaft.

Note

The finger guard must be seated correctly on two shafts.

Pickup unit

- 1 Remove the following covers:
 - Right upper cover. See page 210.
 - Back cover. See page 228.
- 2 Open the right lower door assembly, and remove one screw (callout 1) on the retaining strap of the right lower door assembly.

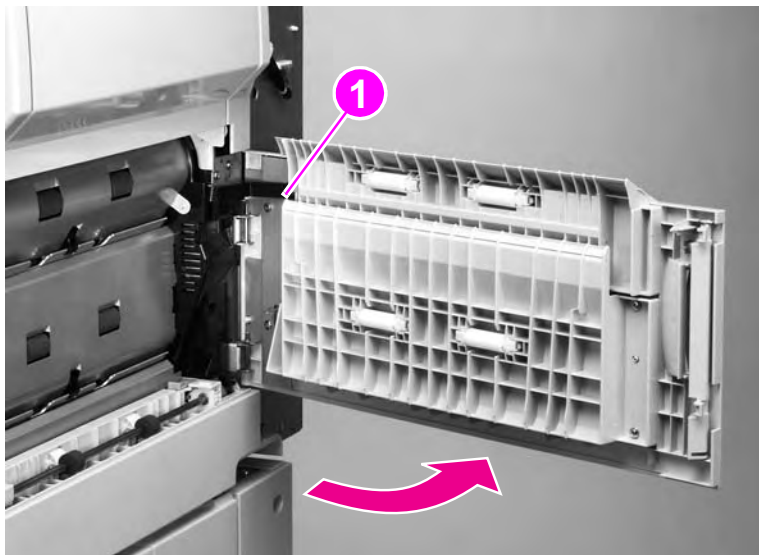


Figure 183. Release the right lower door

- 3 Remove the right lower door assembly.

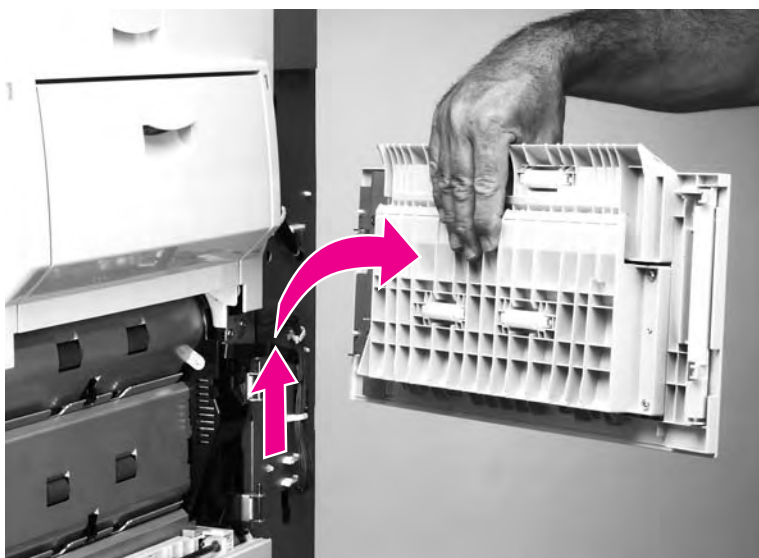


Figure 184. Remove the right lower door

- 4 Remove one screw (callout 2). Lift the right front cover (callout 3) up and then away from the printer.

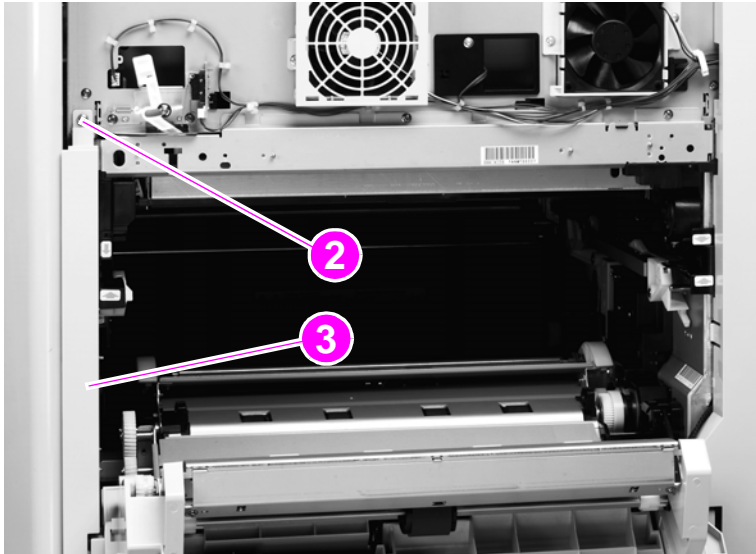


Figure 185. Remove the right front cover

- 5 Open the ITB door.



Figure 186. Open the ITB door

- 6 Remove seven screws (callout 4).
- 7 Remove the shield (callout 5).

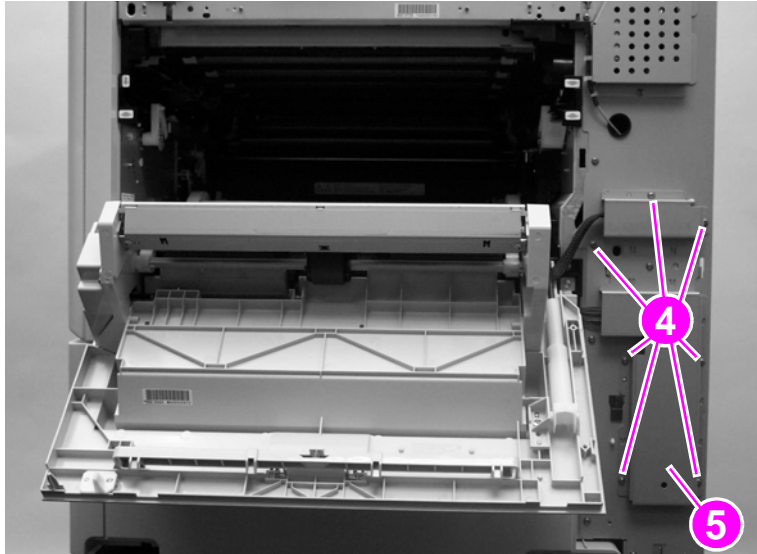


Figure 187. Remove the wire harness shield

- 8 Disconnect one cable connector (callout 6), and unclip one wire harness (callout 7).
- 9 Push the spring-loaded door rod down and to the back to remove it from the bracket (callout 8).

Hint Hold the door with your left hand while holding the rod with your right hand.

CAUTION The rod is under tension and the pins in the rod are not secure.

Note Do not remove the pin from the rod.

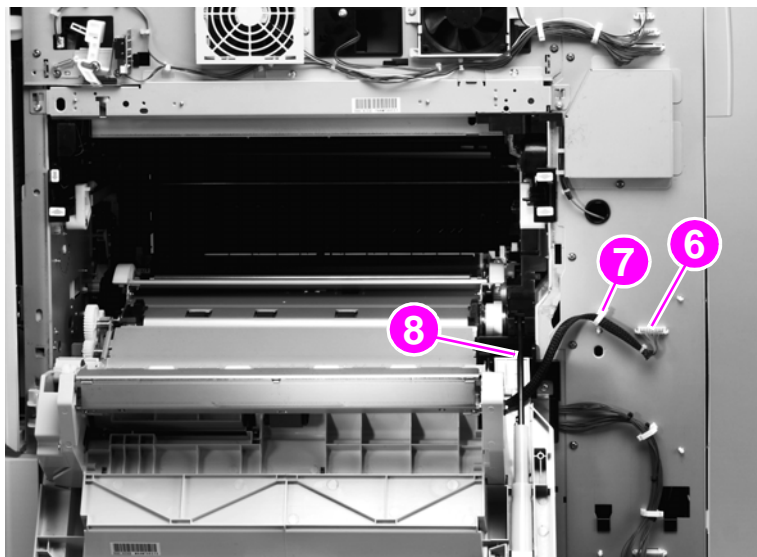


Figure 188. Disconnect the ITB door wire harness

10 Close the right upper door.



Figure 189. Gain access to the ITB door mounting screws

11 Remove three screws (callout 9).

12 Open the right upper door slightly and remove the bracket (callout 10).

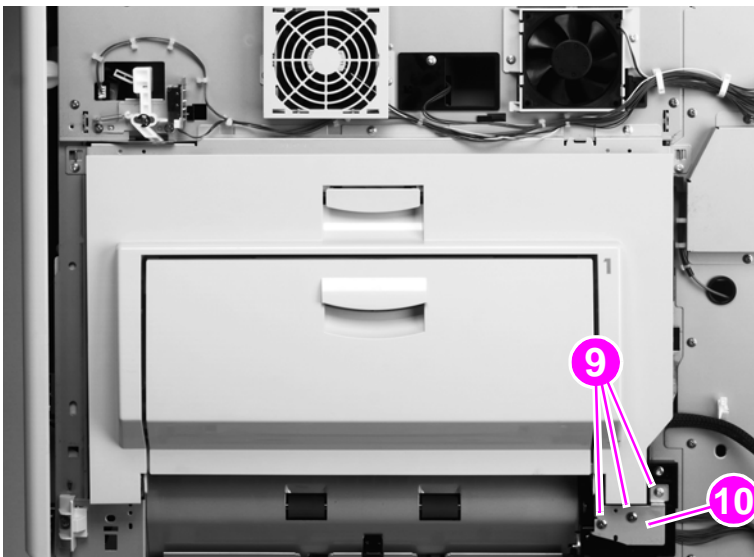


Figure 190. Remove the ITB door

- 13 Shift the ITB door toward the back of the printer and remove it.
- 14 Remove tray 2 and tray 3.
- 15 Remove two screws (callout 11) on the front of the printer.
- 16 Unhook the tab (callout 12) and disconnect the hook (callout 13).
- 17 Remove the lower right corner cover.

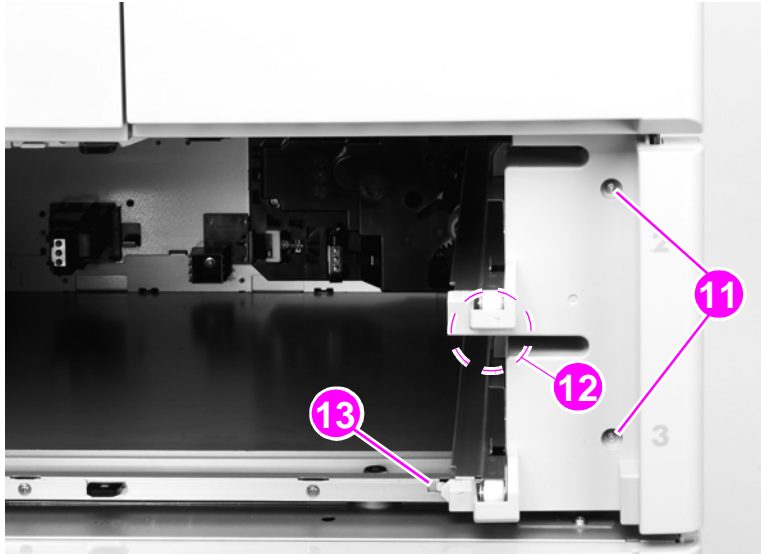


Figure 191. Remove the front lower right cover

- 18 Remove the paper path connection unit.

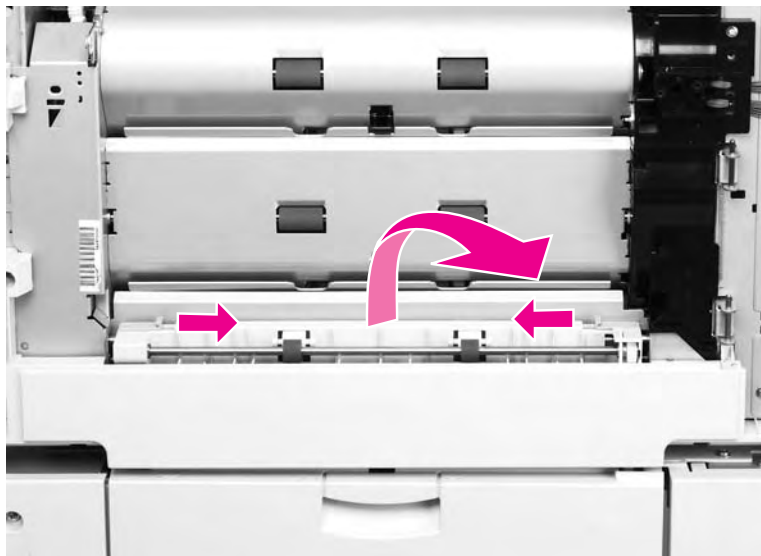


Figure 192. Remove the vertical transfer unit

19 Remove three screws (callout 14) and remove the right lower cover (callout 15).

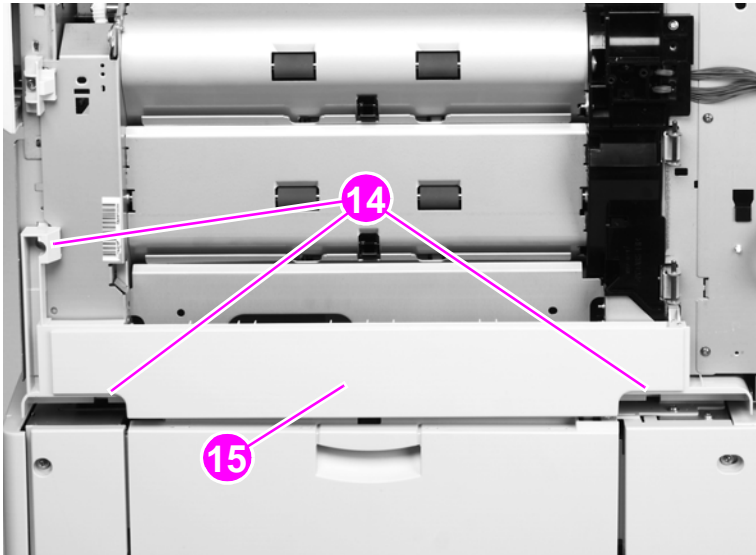


Figure 193. Remove the right lower cover

20 Remove one screw (callout 16) and remove the door stop (callout 17).

Hint

Make sure that you orient the door stop correctly when you reinstall it.

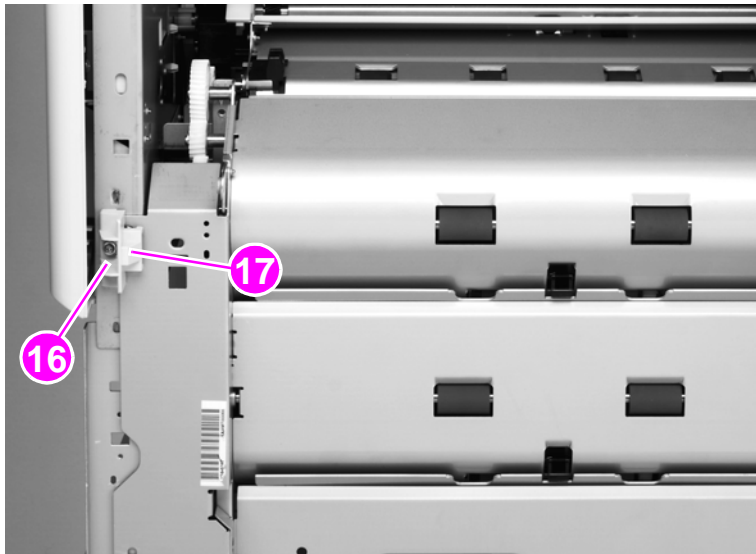


Figure 194. Remove the paper path door stop

21 Remove four screws (callout 18) on the front of the printer.

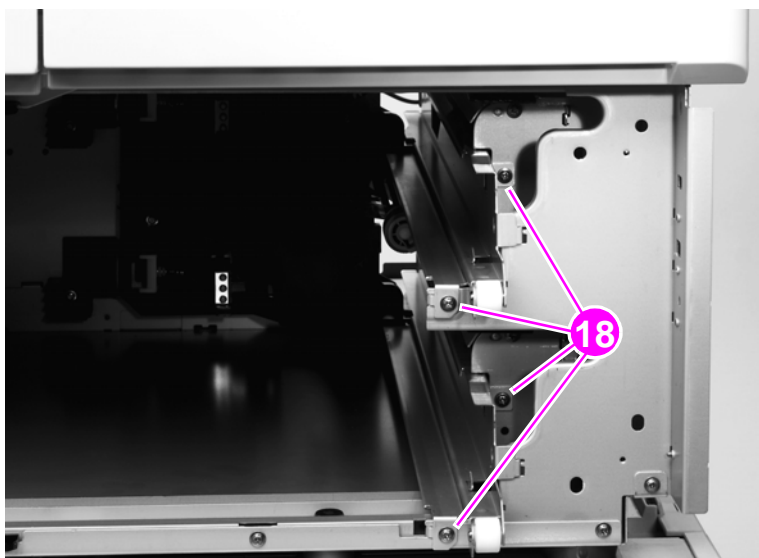


Figure 195. Remove the tray guide mounting screws

22 Remove the tray 2 and tray 3 cassette guides.

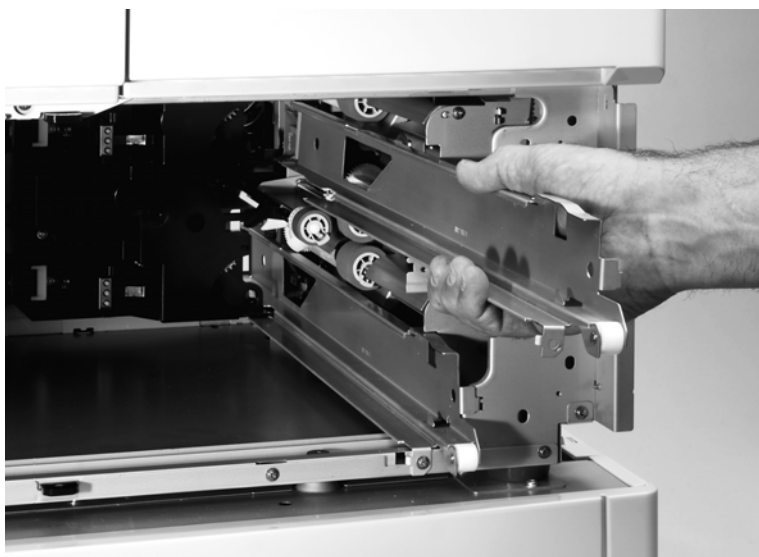


Figure 196. Remove the tray guides

- 23 Remove five screws (callout 19), disconnect two connectors (callout 20), and disconnect two wire clips (callout 21).

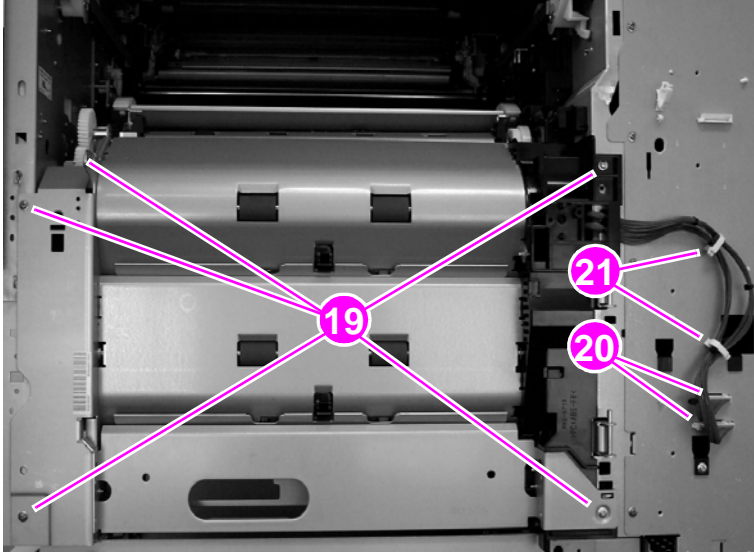


Figure 197. Disconnect the pickup unit connectors

- 24 Remove the pickup unit.

Note

You might need to use a slight amount of force when pulling out the pickup unit.

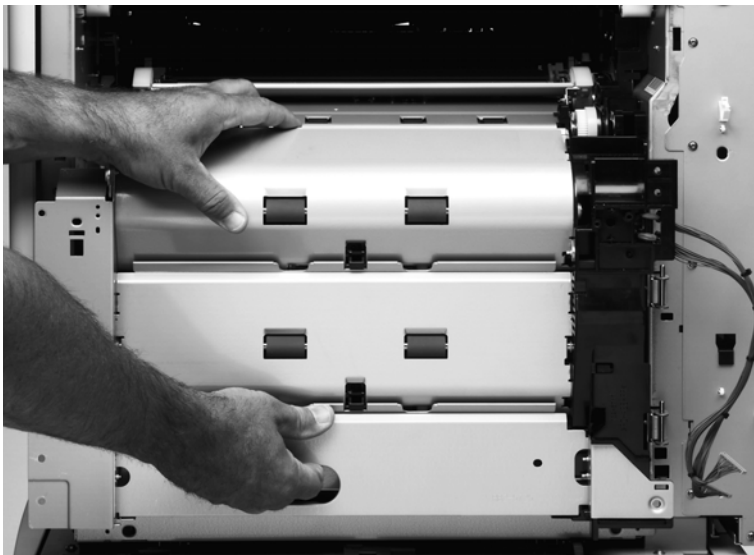


Figure 198. Remove the pickup unit

Temperature and humidity sensor

- 1 Remove the right upper cover. See page 210.
- 2 Remove the white, plastic cover labeled “Up” (callout 1).

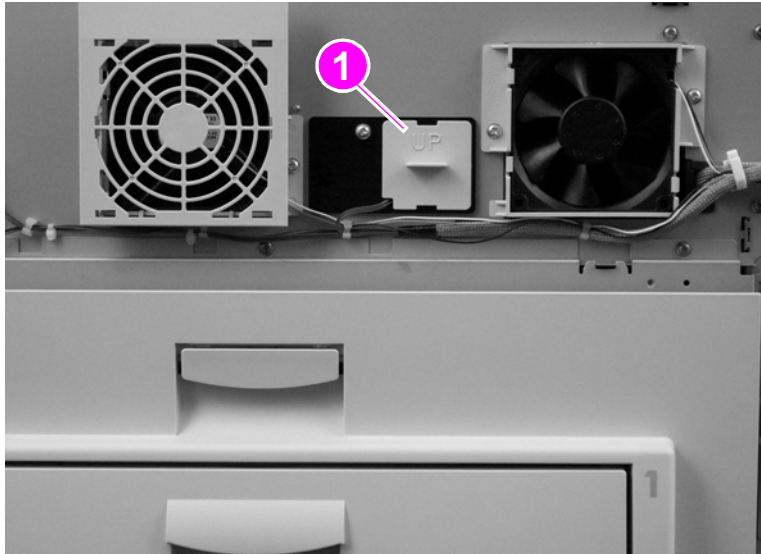


Figure 199. Remove the temperature and humidity sensor cover

- 3 Remove one screw (callout 2), and disconnect one connector (callout 3).

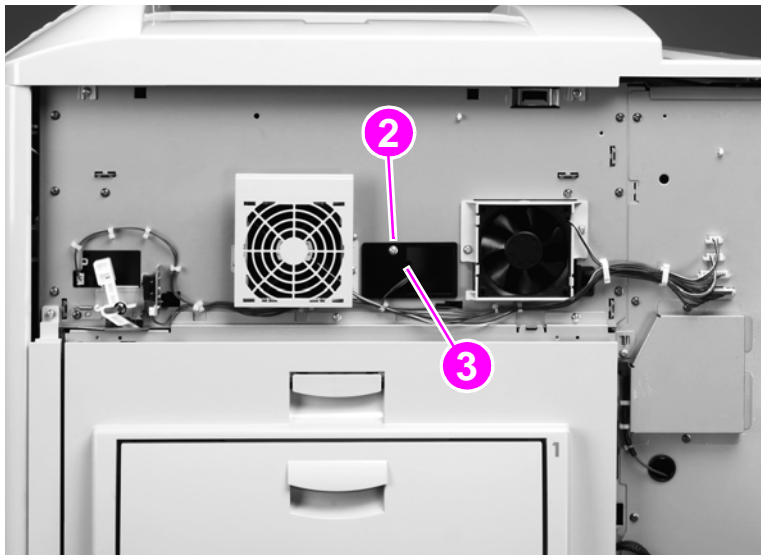


Figure 200. Remove the temperature and humidity sensor

- 4 Remove the temperature and humidity sensor.

To reinstall

Make sure to reinstall the sensor before reinstalling the white, plastic cover.

High-voltage power supply

- 1 Remove the back cover. See page 228.
- 2 Disconnect four connectors (callout 1), remove one ribbon cable (callout 2), and remove five black screws (callout 3).

CAUTION

Do not remove any of the copper screws around the high-voltage power supply. All of the high-voltage power supply mounting screws are black.

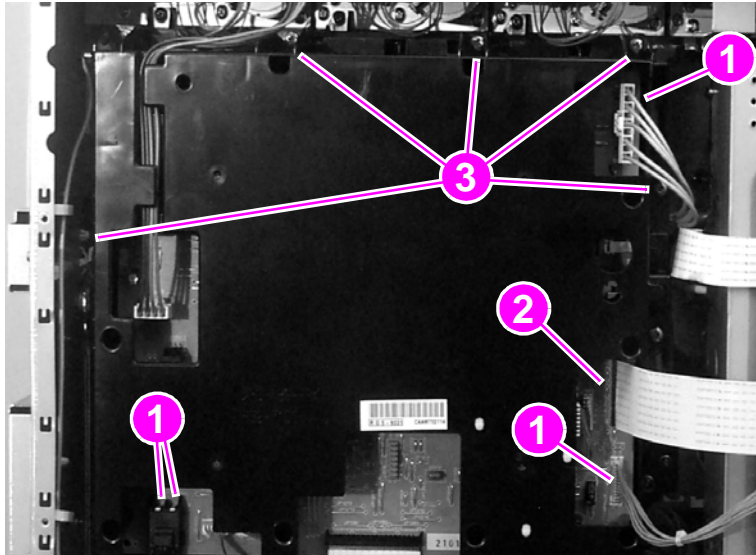


Figure 201. Remove the high-voltage power supply

- 3 Rotate the top of the high-voltage power supply outward.
- 4 Shift the high-voltage power supply to one side until the pivot pin releases.
- 5 Remove the high-voltage power supply.

Low-voltage power supply

- 1 Remove the back cover. See page 228.
- 2 Disconnect 12 connectors, disconnect two wire clips (callout 1), and remove one screw (callout 2).

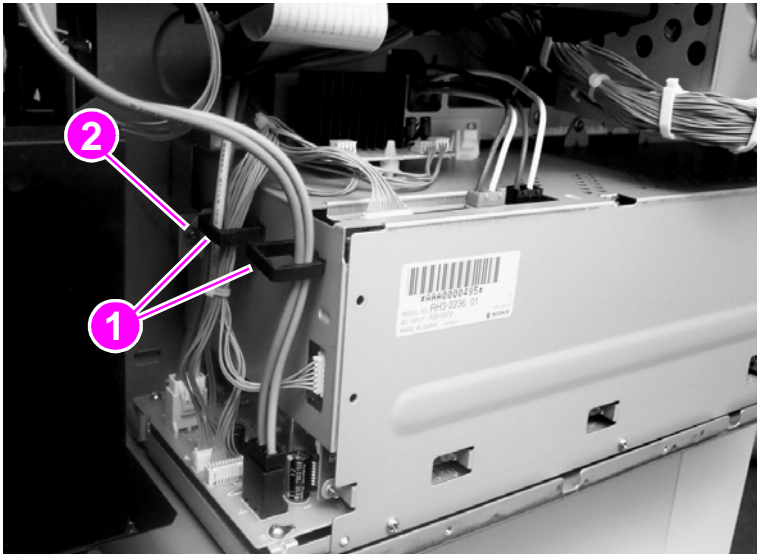


Figure 202. Disconnect the low-voltage power supply

- 3 Remove four screws (callout 3).

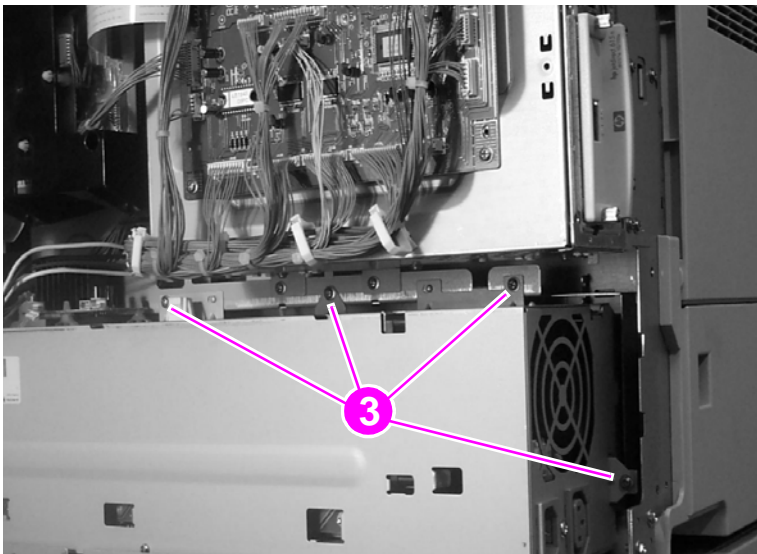


Figure 203. Remove the low-voltage power supply

- 4 Remove the low-voltage power supply.

Registration assembly

- 1 Remove the following FRUs:
 - Pickup unit. See page 272.
 - High-voltage power supply. See page 281.
- 2 Disconnect one connector (callout 1) and remove three screws (callout 2).

Hint

Mark the screw holes on the chassis before removing the screws.

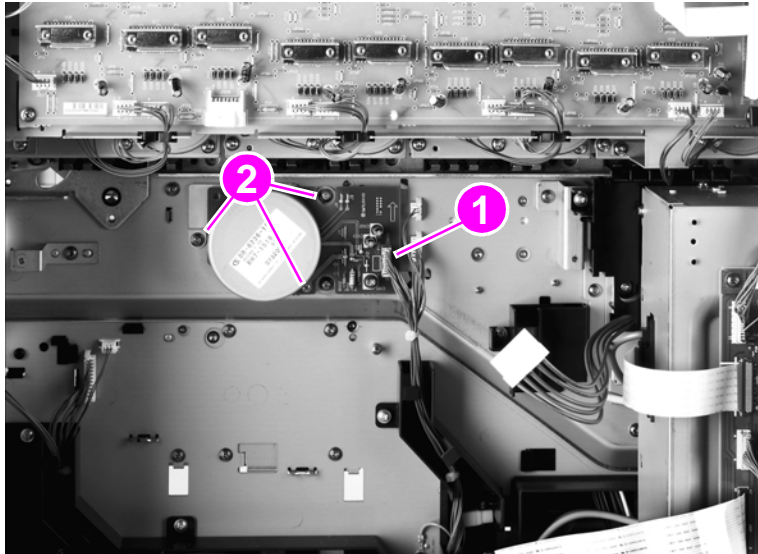


Figure 204. Disconnect the registration assembly motor

- 3 Remove the registration motor.
- 4 Remove three screws (callout 3) from the registration drive assembly.

Note

The registration drive assembly is removed in step 10.

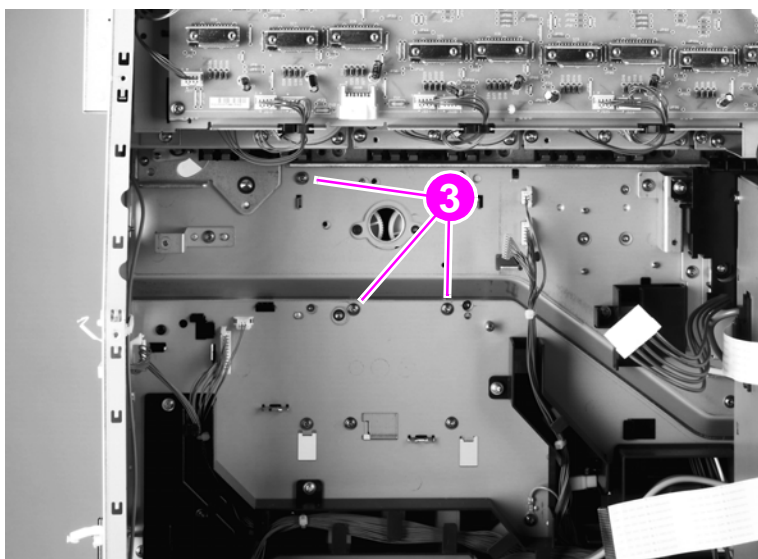


Figure 205. Remove the registration assembly motor

- 5 Remove two covers (callout 4).

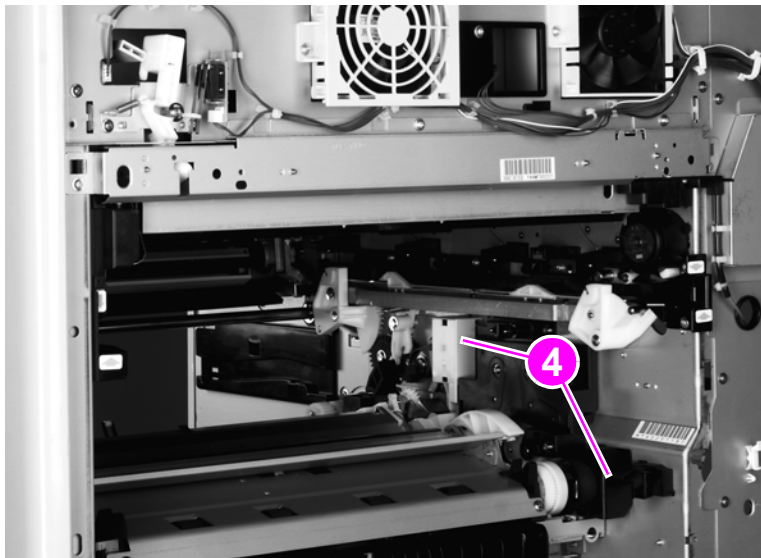


Figure 206. Remove two wire harness covers

- 6 Open the front doors.



Figure 207. Gain access to the green ITB release lever

- 7 Push the green handle down.

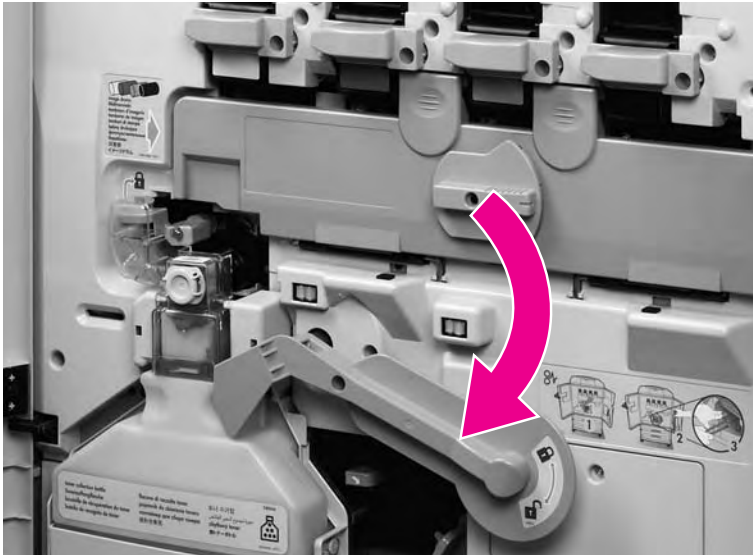


Figure 208. Lower the ITB release lever

- 8 Use the following steps to remove the right back ITB lift link:

CAUTION

Do not remove the e-ring (callout 5) from the claw assembly.

- a Remove the retainer clip and washer by using needlenose pliers (callout 6).
- b Use a small flatblade screwdriver to lift and unclip the retaining claw (callout 7) on the white, plastic cam assembly.

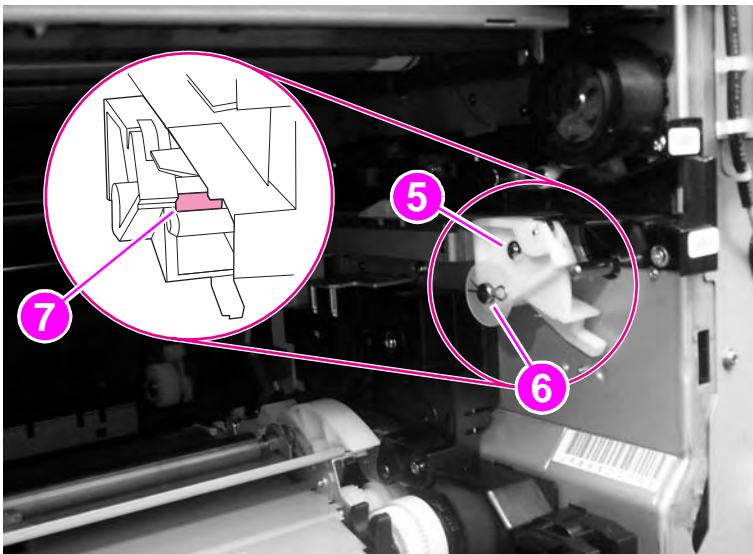


Figure 209. Release the right back ITB lifting link

- c Slide the right back ITB lift link to the left and off.

CAUTION

Make sure that you do not bend the right back ITB lift claw by pulling out too far.



Figure 210. Remove the right back ITB lifting link

- 9 Disconnect one wire connector (callout 8).
- 10 Remove the registration drive assembly (callout 9).

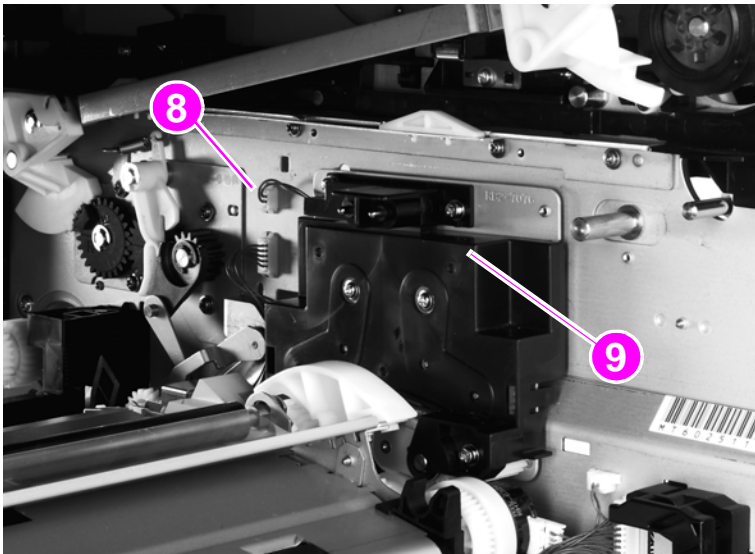


Figure 211. Disconnect the registration assembly connector

11 Remove two screws (callout 10).

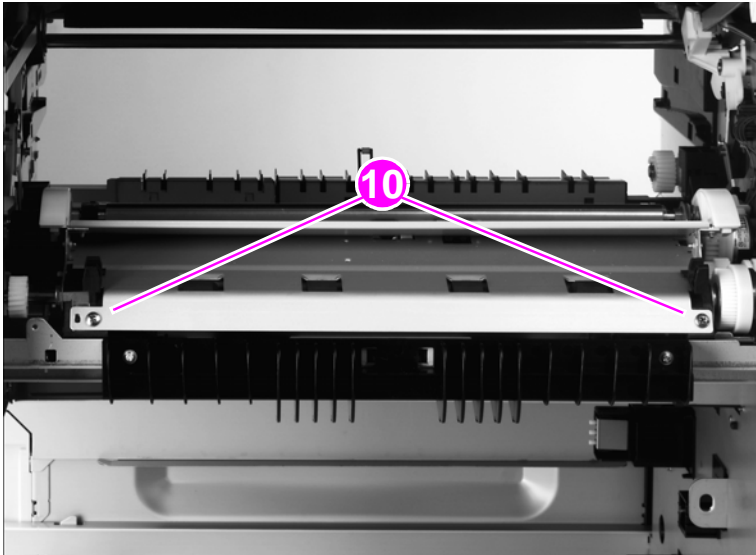


Figure 212. Remove the registration assembly plate mounting screws

12 Slide the plate toward the back of the printer.

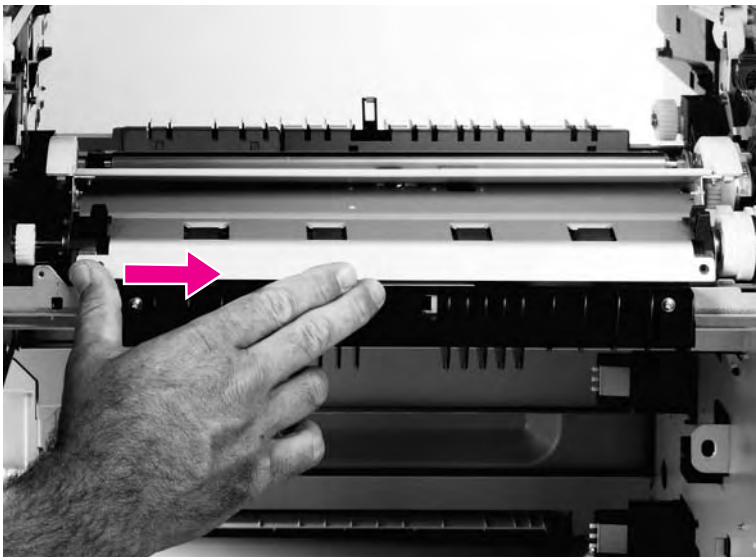


Figure 213. Remove the registration assembly plate (1 of 2)

13 Lift up the left side of the plate, slide it toward the front of the printer, and remove it.

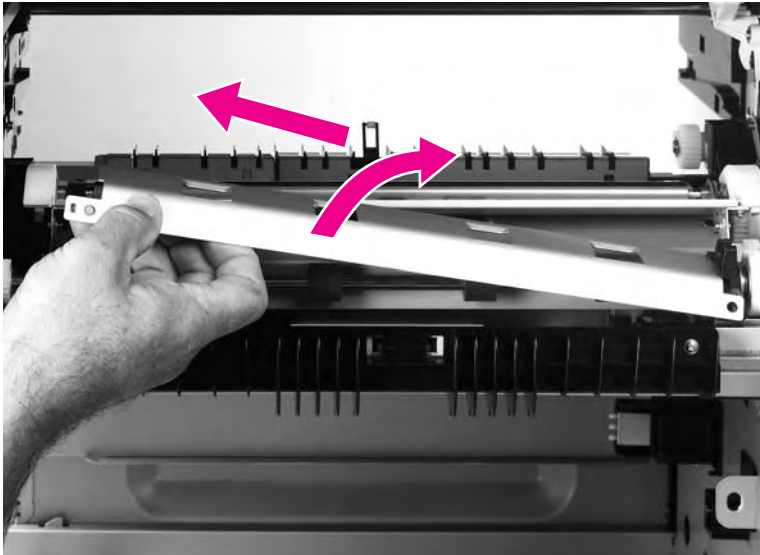


Figure 214. Remove the registration assembly plate (2 of 2)

14 Remove three screws (callout 11).

CAUTION

Make sure that the black process cartridge (image drum) is removed. The handle of a long-blade screw driver can damage the process cartridge if it contacts the cartridge when you are removing these screws.

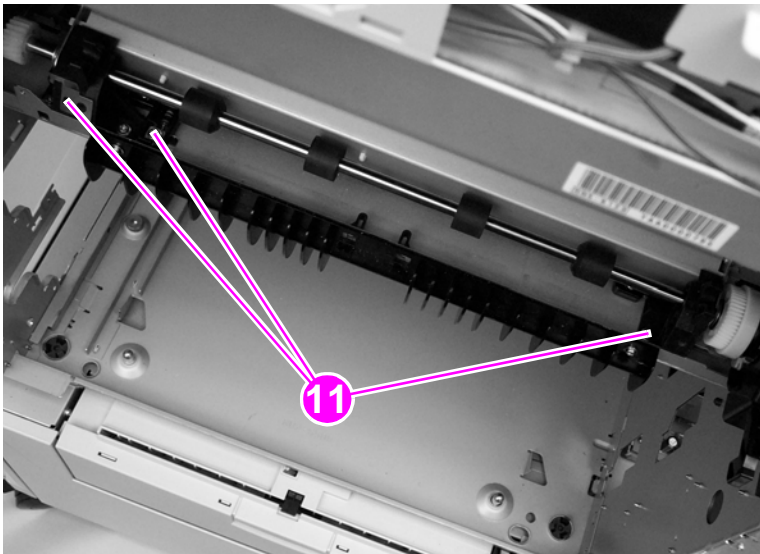


Figure 215. Remove the registration assembly mounting screws

15 Disconnect two connectors (callout 12).

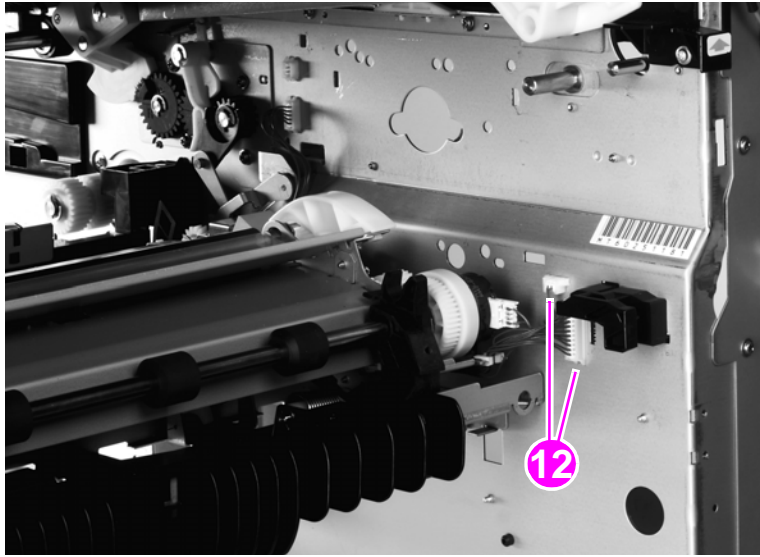


Figure 216. Disconnect the registration assembly connectors

16 Lift the front of the registration assembly and unhook two white claws (callout 13).

17 Remove the registration assembly.

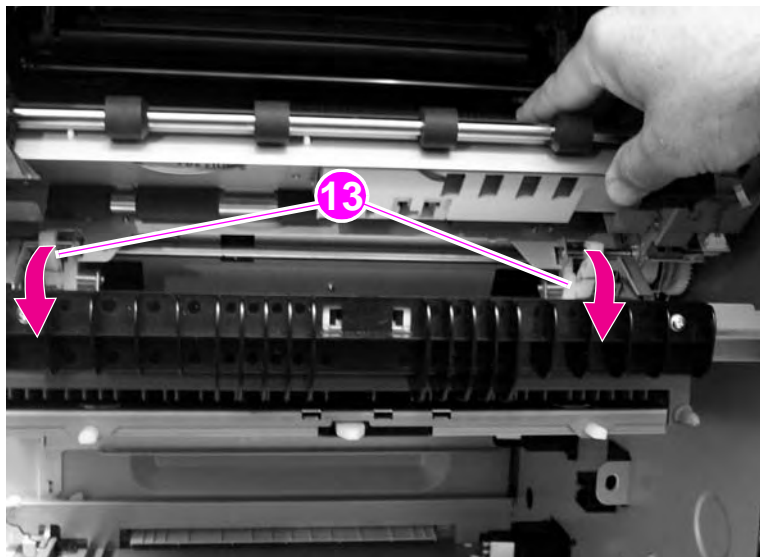


Figure 217. Remove the registration assembly

To reinstall

- Make sure that you replace the back of the registration assembly first.
- Make sure that the two white claws are hooked correctly.