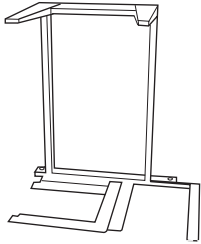


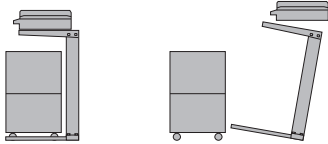
Installing the HP Digital Copy 320

1



Install the HP Digital Copy 320 on the Optional HP Digital Copy 320 Stand

For detailed instructions on setting up the HP Digital Copy 320 Stand, see the installation guide that came with the stand.



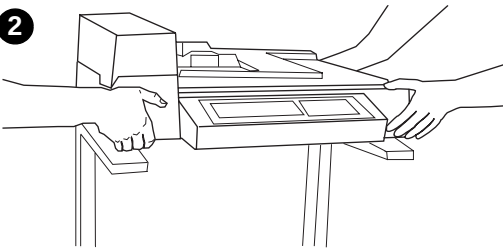
- 1 Place the HP Digital Copy 320 Stand near the desired location.

Note

Be sure to leave space for the installation of the accessories. See “Space Requirements” on page 47 for dimensions.

It is also important to leave space between the stand and the desired location to allow access to the cables during installation.

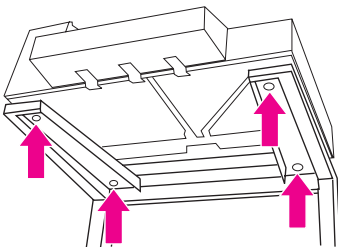
2



WARNING!

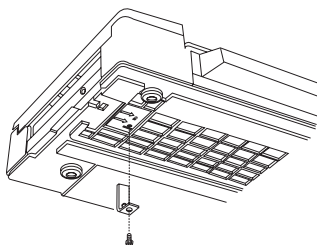
Use caution when completing the following steps. Once you place the HP Digital Copy 320 on the stand, bumping or moving may cause it to tip. The Mopier must be moved into position immediately after installation of the HP Digital Copy 320 is complete.

3

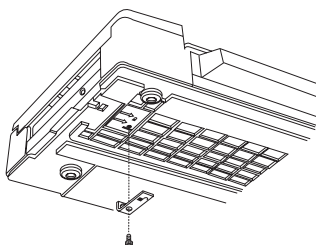


- 2 With one other person, lift the HP Digital Copy 320 and align it with the screws on the HP Digital Copy 320 Stand.
- 3 With a flathead screwdriver, screw the HP Digital Copy 320 onto the stand.

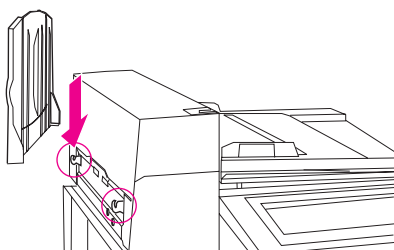
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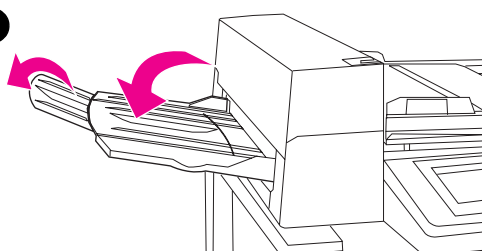
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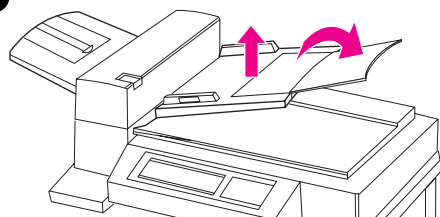
6



7



8



CAUTION

Operating the HP Digital Copy 320 with the shipping lock in place might damage the device. It is important that you perform steps 4 and 5.

- 4 Unscrew and remove the shipping lock.
- 5 Rotate the shipping lock and reinsert it into the HP Digital Copy 320 in the unlocked position.

Note

When you replace the shipping lock, you may need to power cycle the Mopier to move the Carrier Unit into position.

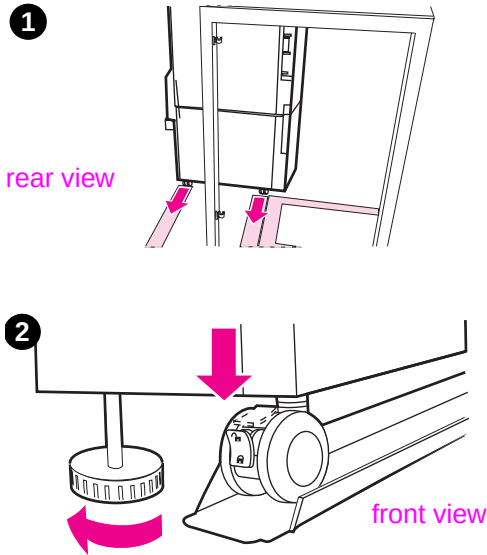
- 6 To install the output bin, hold the bin vertically (as shown) and push down to attach the bin to the metal guides.
- 7 Pull the output bin down. For longer paper, flip the bin extension out as shown.
- 8 Lift the input tray up to lock it into place. For longer paper, flip the tray extension out as shown.

Install the Mopier on the Optional Input Accessory

For detailed instructions on installing the Mopier onto the optional input accessory, see the installation guide that comes with the accessory.

Roll the Mopier onto the Optional HP Digital Copy 320 Stand

- 1 Lift both sides of the Mopier and gently rock the Mopier back and forth as you push it onto the stand.
- 2 When the Mopier is in place, lock the wheels and rotate the levelers up or down to stabilize the Mopier.



Install the Optional Output Accessory

Note

For detailed information on installing the optional output accessory, see the installation guide that came with the accessory and the online Mopier user guide that came with the Mopier.

- 1 Roll the optional output accessory onto the HP Digital Copy 320 Stand.

Note

Be sure to properly align the mounting bracket as you roll the optional output accessory onto the HP Digital Copy 320 Stand.

- 2 After the front two rollers are on the base of the HP Digital Copy 320 Stand, attach the mounting bracket (called out below).
- 3 Roll the optional output accessory toward the Mopier until it clicks into place.

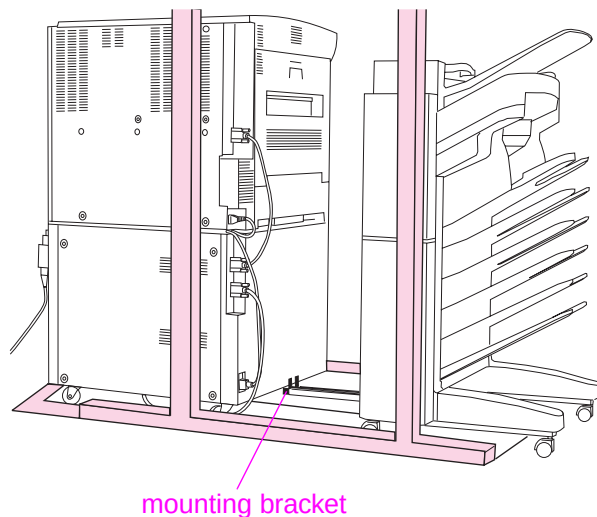


Figure 6-190 Optional Output Accessory

Note

Be sure to leave enough space to completely extend the optional output accessory away from the Mopier. See "Space Requirements" on page 47.

For cabling information, see "Communication Link (Daisy Chain)" on page 180.

Install the Copy Connect EIO Board into the Mopier

CAUTION

Make sure that the Mopier is turned off.

Insert the Copy Connect EIO Board that came with the HP Digital Copy 320 into slot 3 (the top slot) on the Mopier. (Use the screws that are in the existing EIO cover to install the Copy Connect EIO Board.)

Note

If a cover is on slot 3, use a phillips screwdriver to remove the two screws. Remove the cover and install the Copy Connect EIO Board.

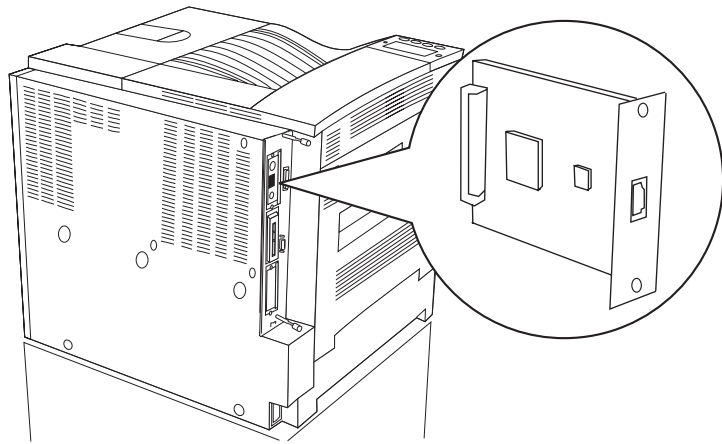


Figure 6-191 Copy Connect EIO Board (slot 3)

Install the Copy Connect Cable

- 1 Plug the Copy Connect cable into the HP Digital Copy 320 (A).

Note

See the icon on the back of the HP Digital Copy 320 for correct orientation of the cable.

- 2 Plug the other end of the Copy Connect cable into the Copy Connect EIO Board (B).
- 3 Wrap the excess cable as shown in figure 6-192(C).

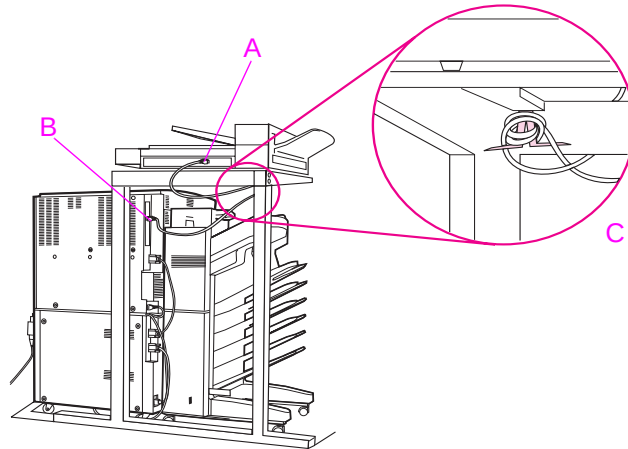


Figure 6-192 View with HP Digital Copy 320 Stand (preferred configuration)

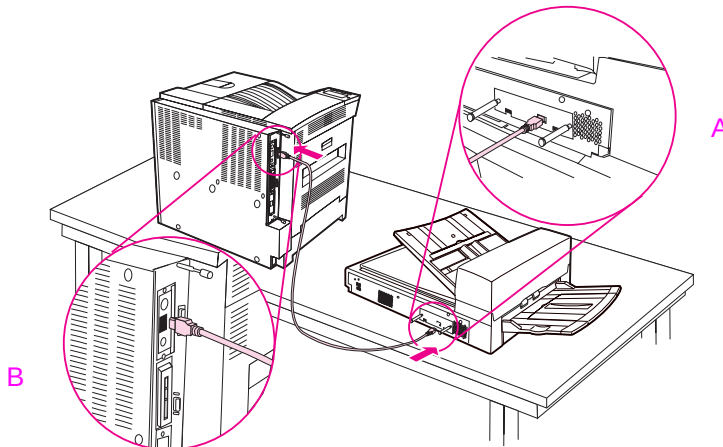
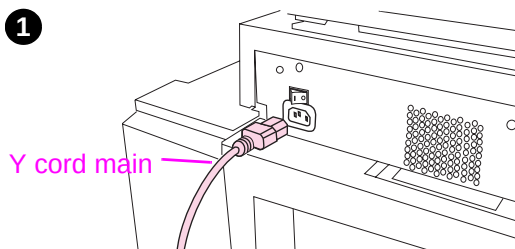


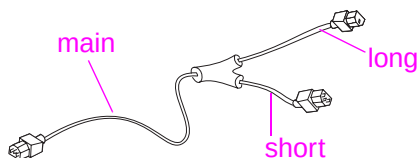
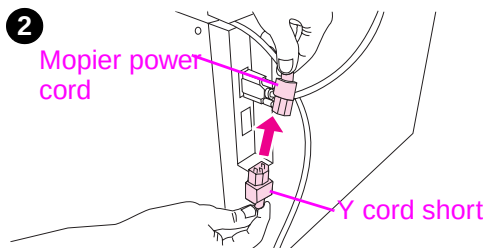
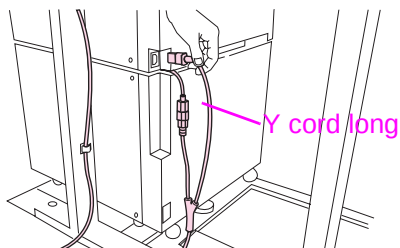
Figure 6-193 View with HP Digital Copy 320 on Tabletop

1

Install the Y Power Cord

CAUTION

Turn off the Mopier and HP Digital Copy 320 before you install the Y power cord.

2**3**

- 1 Plug the main end of the Y power cord into the HP Digital Copy 320.
- 2 Unplug the power cord from the Mopier. Plug the power cord into the short end of the Y power cord.
- 3 Plug the long end of the Y power cord into the Mopier.

Hardware Table

Note

The numbers in the “Reference” column are used in the diagrams in Chapter 8.

Table 6-2. Hardware Table

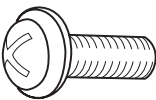
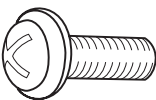
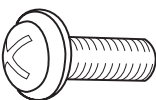
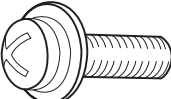
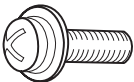
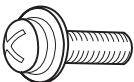
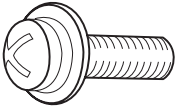
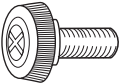
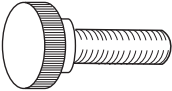
Example	Reference	Description	Part Number (for kits of 20)
	B1	TP Screw m3 x 8	PA03002-C282FJ
	B2	TP Screw m3 x 6	PA03002-C281FJ
	B3	TP Screw m4 x 8	PA03002-C288FJ
	B4	Machine Screw w/washer m3 x 6	PA03002-C283FJ
	B5	Machine Screw w/washer m3 x 8	PA03002-C284FJ
	B6	Machine Screw w/washer m3 x 35	PA03002-C285FJ

Table 6-2. Hardware Table (continued)

Example	Reference	Description	Part Number (for kits of 20)
	B10	Machine Screw w/washer m4 x 8	PA03002-C286FJ
	B15	Flathead Screw m3 x6	PA03002-C287FJ
	B20	E-ring, Latch Lever (20pcs)	PA03002-C254FJ
	B21	E-ring, Idle Roller (20pcs)	PA03002-C253FJ
	B22	Retainer Ring ADF Lock Bearing (20pcs)	PA03002-C255FJ
		Thumb Screw for Document Cover	PA03002-C290FJ
		Thumb screws for Pick Roller Cover	PA03002-C123FJ

NEED EXAMPLES OF SCREWS

Orientation of the HP Digital Copy 320

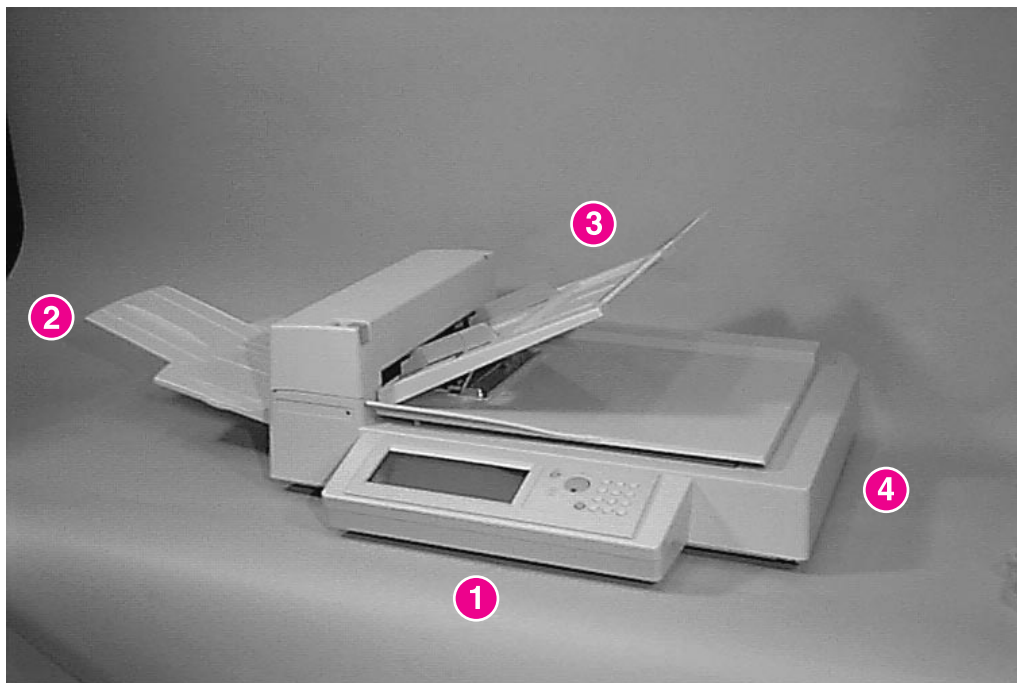


Figure 6-194 Orientation of the HP Digital Copy 320

- 1 Front
- 2 Left
- 3 Back
- 4 Right

WARNING!

Remove the power cord before you begin service procedures.

Copy Module Maintenance Parts

Separation Pad Assembly

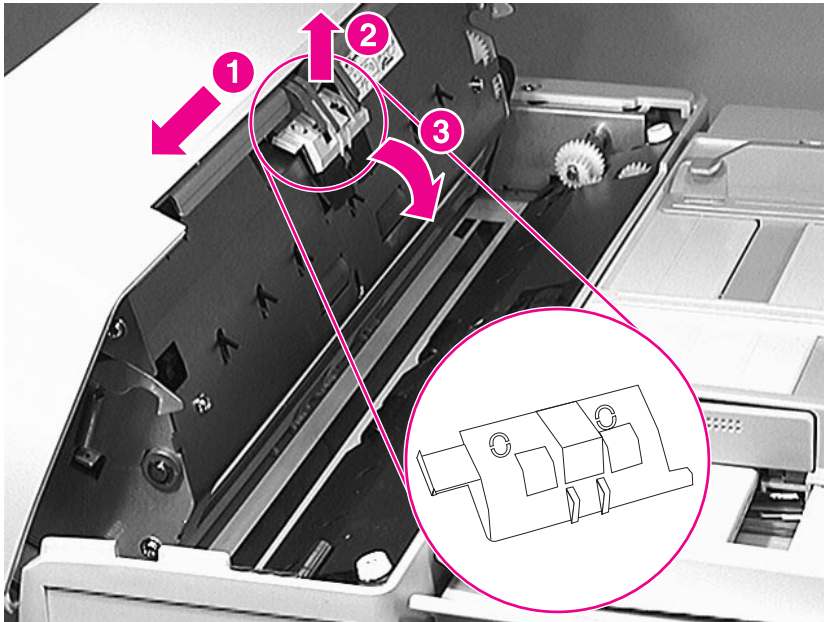


Figure 6-195 Separation Pad Assembly

CAUTION

Do not bend the pick spring (metal tabs) as you remove the Separation Pad Assembly.

- 1 Open the ADF.
- 2 Push the Separation Pad Assembly in the direction of the imprinted arrow (callout 1).
- 3 Rotate the Assembly down, free of the pick spring (callout 3).

To replace

Reverse the above procedure.

Pick Roller Assembly

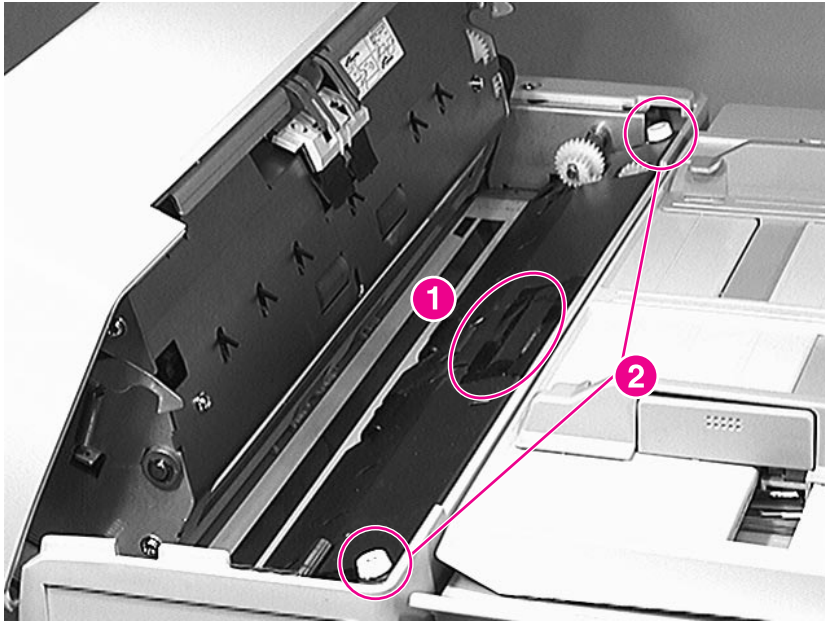


Figure 6-196 Pick Roller Cover

CAUTION

As you remove the Pick Roller Cover, do not bend the plastic parts in the middle of the cover (callout 1).

- 1 Remove 2 Flathead M3x6 thumb screws (callout 2) and remove the Pick Roller Cover.

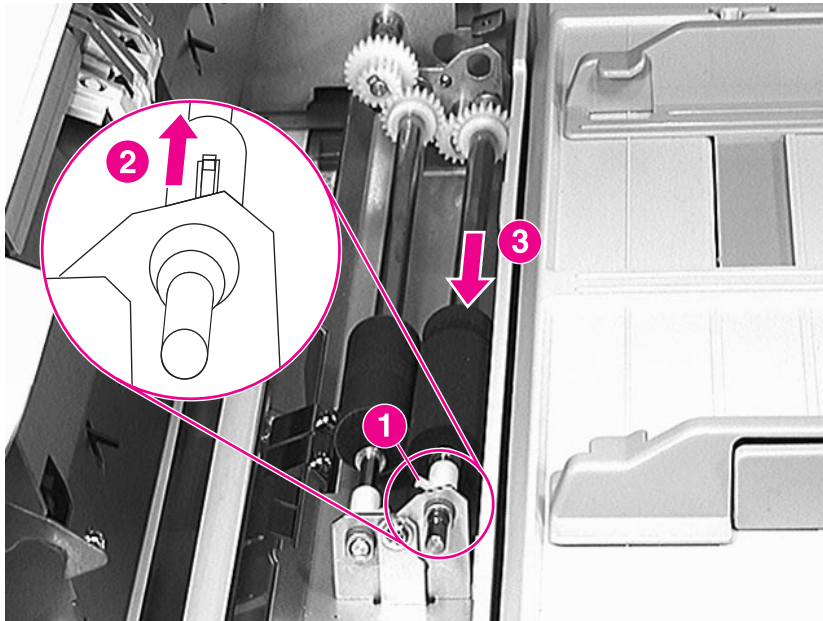


Figure 6-197 Pick Rollers (1 of 2)

- 2** Lift the white tab (callout 1) and push the collar toward the black roller (callout 2). This allows the brass bushing to slide along the shaft.
- 3** Slide the whole shaft and roller forward to release the shaft from the hole in the rear (callout 3).

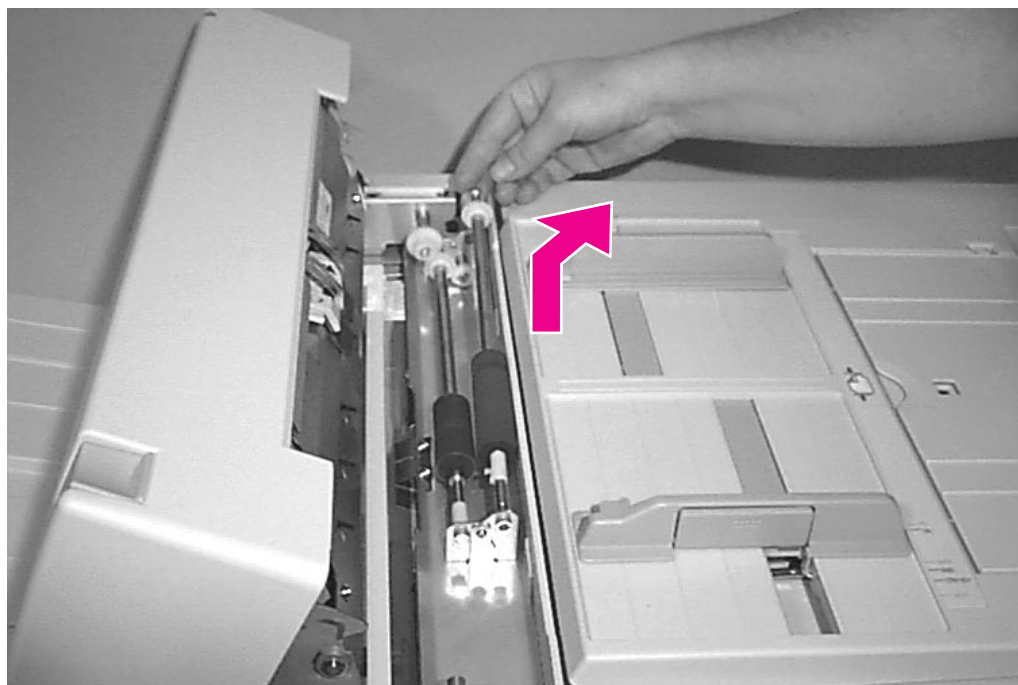


Figure 6-198 Pick Rollers (2 of 2)

- 4 Lift out the rear end of the roller and release the shaft from the hole in the front. Lift out the entire roller and shaft assembly.

CAUTION

Do not touch the rubber part of the new rollers. Skin oils or gear lubricant can damage the rollers.

Note

Important! Retain the brass bushings. Replacement Pick Rollers include the white collar but not the bushings.

When you replace the brass bushings on the roller, note that they are keyed flat on the sides to fit correctly in the holes.

- 5 Remove the front and rear brass bushings if they are not worn and place them on the new roller.

Note

To remove the second roller, follow the steps above. Note the difference between the rollers to replace the correct roller in its place.

To replace

- 1 Reverse the above procedure.

CAUTION

Do not touch the rubber part of the new rollers. Skin oils or gear lubricant can damage the rollers.

- 2 Place the brass bushings on the new roller and replace the front end first.
- 3 Align the rear end of the Pick Roller Cover with the gears first and then replace the cover.

Copy Module Skins

Document Holding Pad

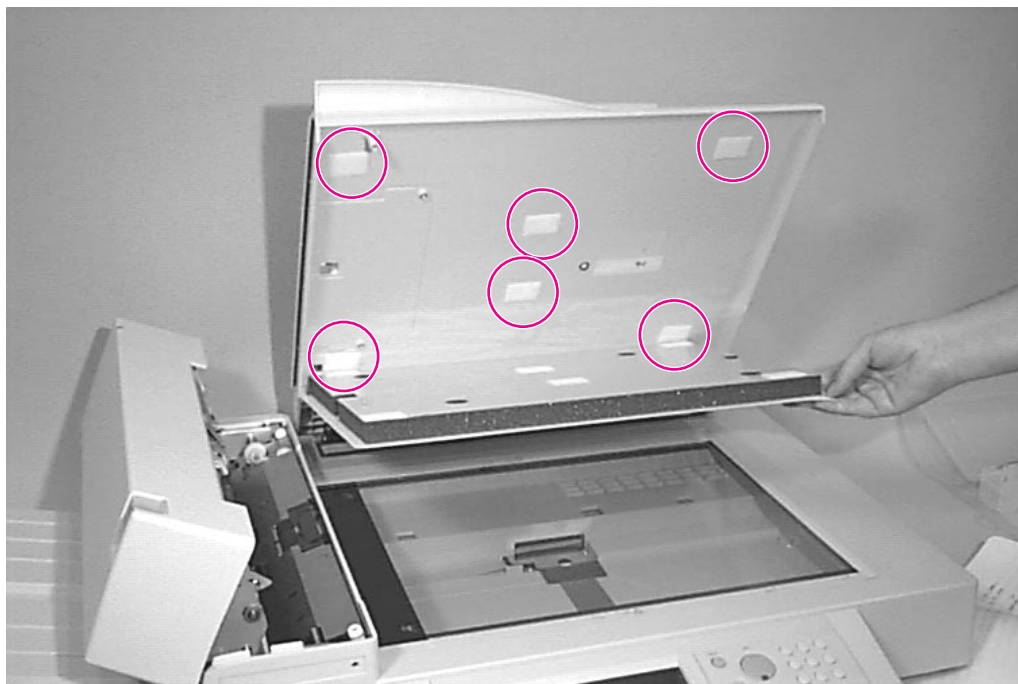


Figure 6-199 Document Holding Pad

Pull apart the Velcro pads and remove the Document Holding Pad.

Paper Chute Flip-out

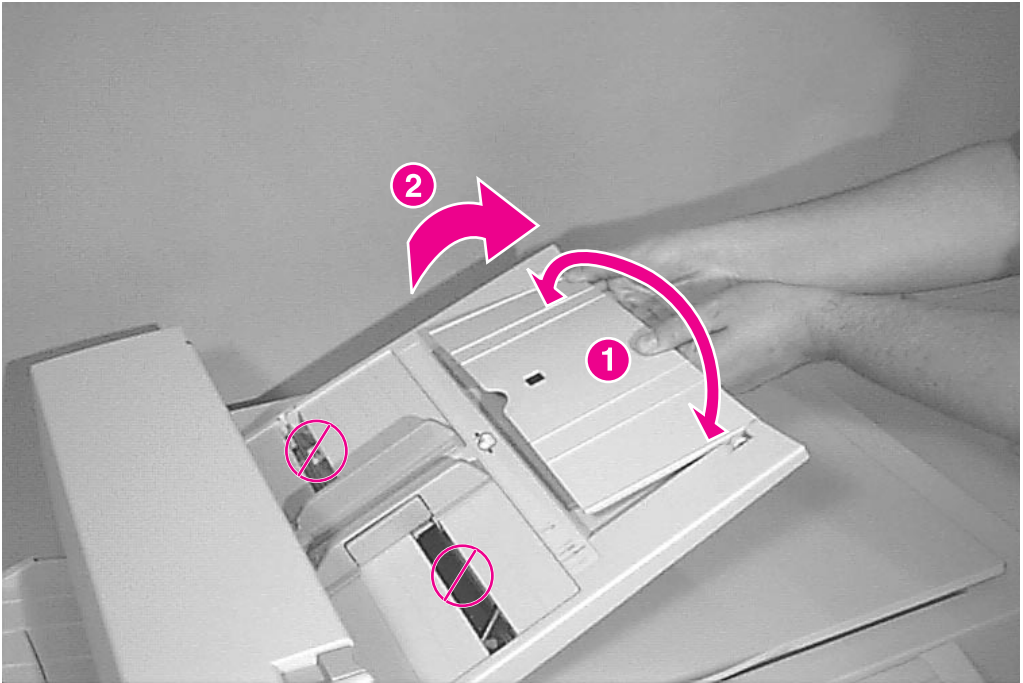


Figure 6-200 Paper Chute Flip-out

CAUTION

Do not attempt to remove the screws that hold the paper chute onto the FB Cover Assembly. If the screws are removed, the chute cannot be realigned properly by field service personnel.

- 1 Bow the tray slightly to free the pins from the hinges (callout 1).
- 2 Lift the tray out of the slots (callout 2).

Output Tray Flip-out

- 1 Bow the tray slightly to free the pins from the hinges.
- 2 Lift the tray out of the slots.

Note

This procedure is not shown because it is similar to removing the Paper Chute Flip-out (above).

Output Tray

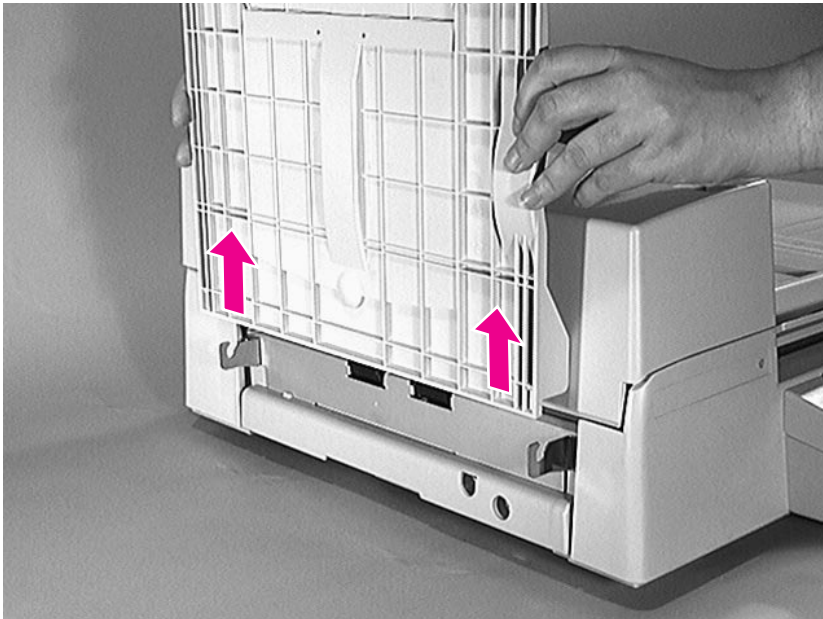


Figure 6-201 Output Tray

- 1 To remove the Output Tray, close the Output Tray Flip-out and raise the tray to the vertical position.
- 2 Lift the tray straight up.

Flatbed (FB) Cover Assembly

CAUTION

Do not attempt to remove the screws that hold the paper chute onto the FB Cover Assembly. If the screws are removed, the chute cannot be realigned properly.

The Rubber Stop, Paper Chute Flip-out, and Document Holding Pad can be replaced. Do not remove any other parts of the FB Cover Assembly.

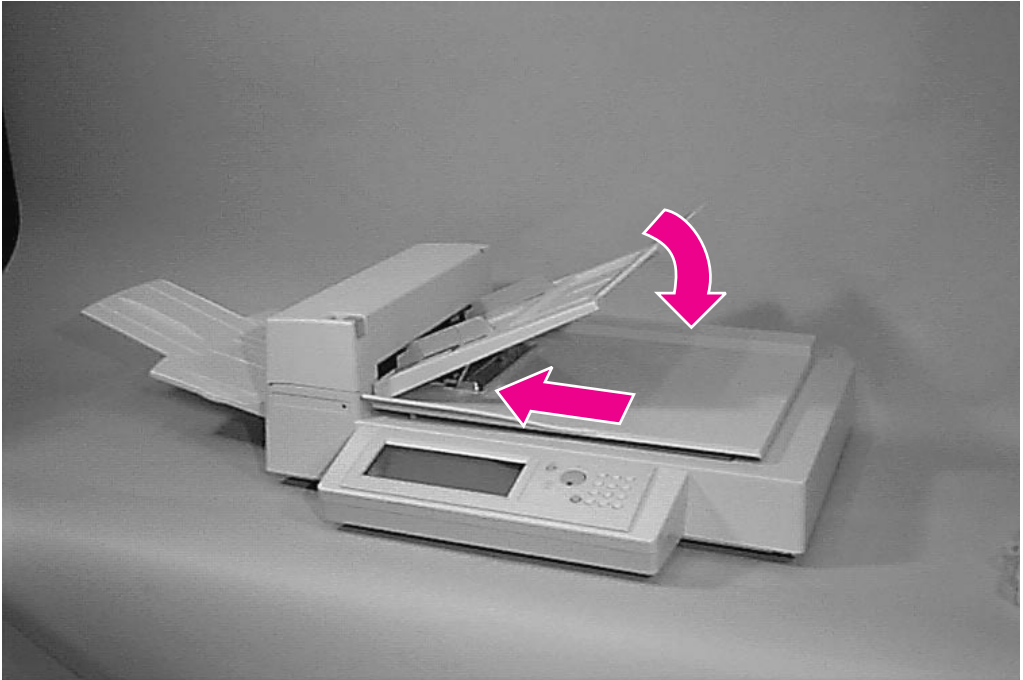


Figure 6-202 FB Cover Assembly

- 1 Push in the metal support and lower the chute to the storage position. Open the cover.



Figure 6-203 Thumb Screw for Document Cover Assembly

- 2 Remove the thumb screw.

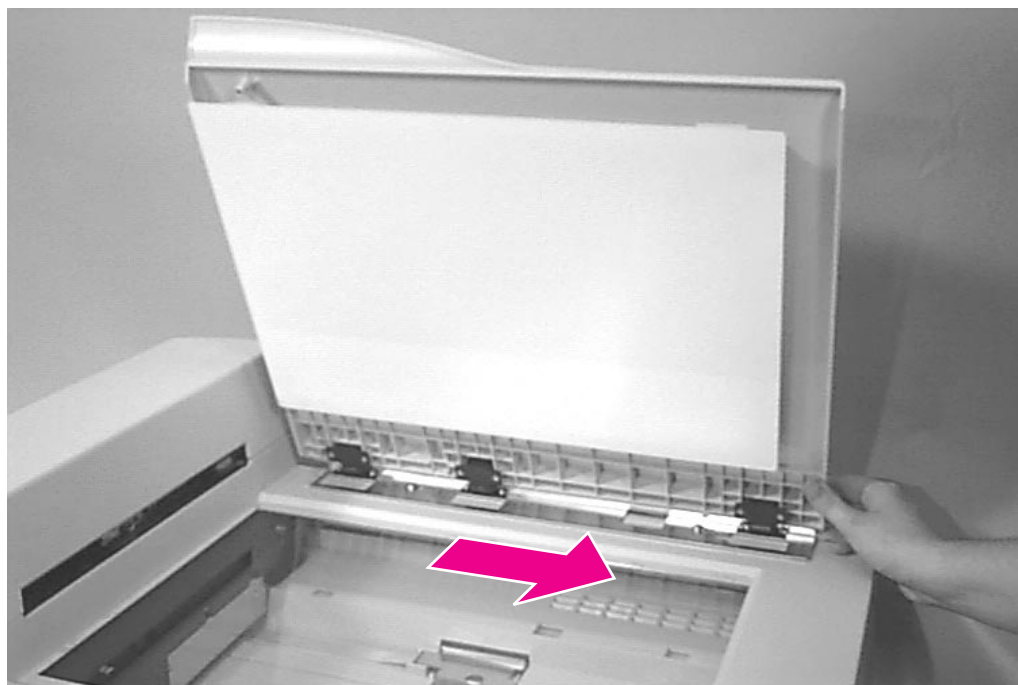


Figure 6-204 Removing the Cover from the Posts

CAUTION

Do not hit the glass as you remove the FB Cover Assembly.

- 3** The FB Cover Assembly rests on two posts. Slide the assembly to the right to release it, then lift it straight up.

ADF Latch Cap



Figure 6-205 ADF Latch Cap

CAUTION

A magnetic screwdriver is required to remove the ADF Latch Cap.

- 1 Open the ADF.
- 2 Locate the screw inside the ADF Latch Cap.
- 3 Depress the ADF Latch Cap until you can reach the screw with a magnetic screwdriver.

CAUTION

Be careful not to drop the screw.

- 4 Remove the TP screw (m3x8).

To replace

- 1 Depress the lever for the ADF Latch Cap until the screw hole is accessible.
- 2 Use a magnetic screwdriver to place the screw in the hole.
- 3 Replace the ADF Latch Cap and tighten the screw.

ADF Cover

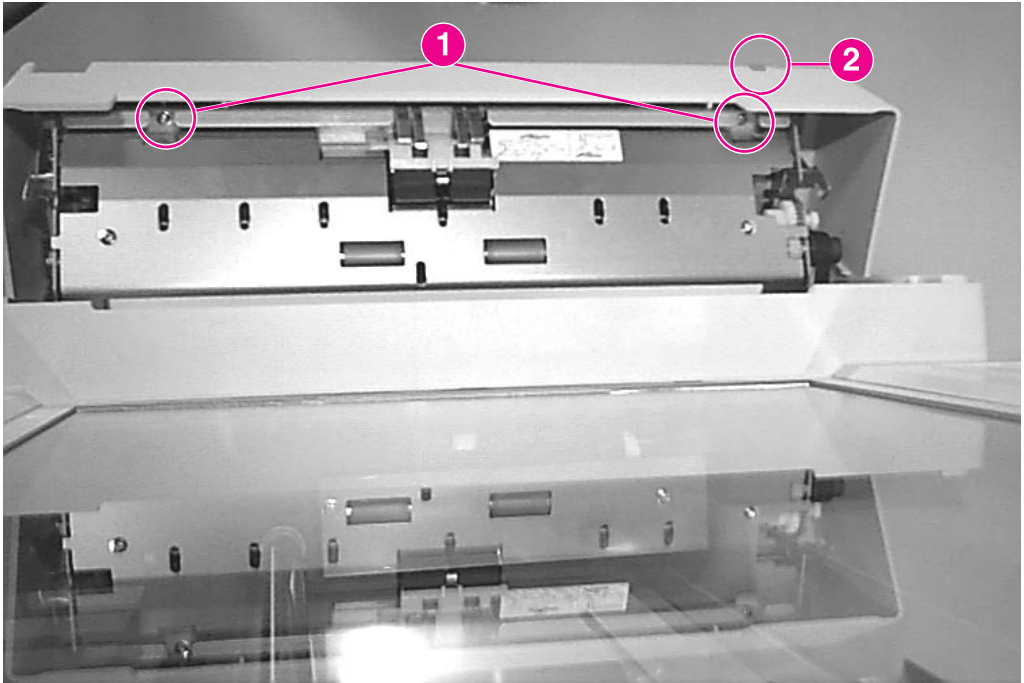


Figure 6-206 ADF Cover (1 of 2)

- 1 Open the ADF and remove 2 TP screws (m3x8) (callout 1).
- 2 Close the ADF.

Note

Note the location of the LED (callout 2). Be careful not to damage the LED Assembly underneath when you remove the ADF Cover.

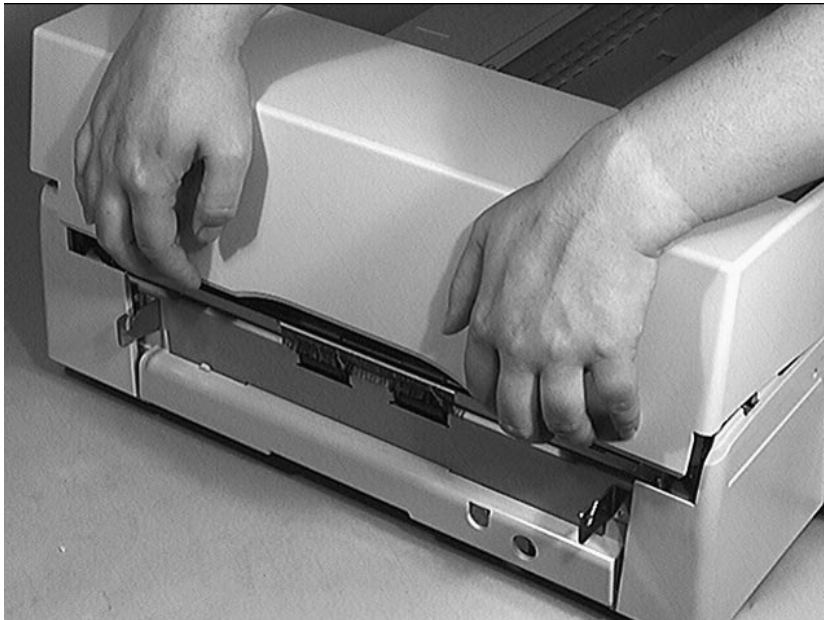


Figure 6-207 ADF Cover (2 of 2)

CAUTION

Be careful not to damage the LED Assembly when you remove the ADF Cover.

- 3** To remove the ADF Cover, pry outward to release the plastic tabs, and then pry the cover upward with your fingers as shown.

Front Panel

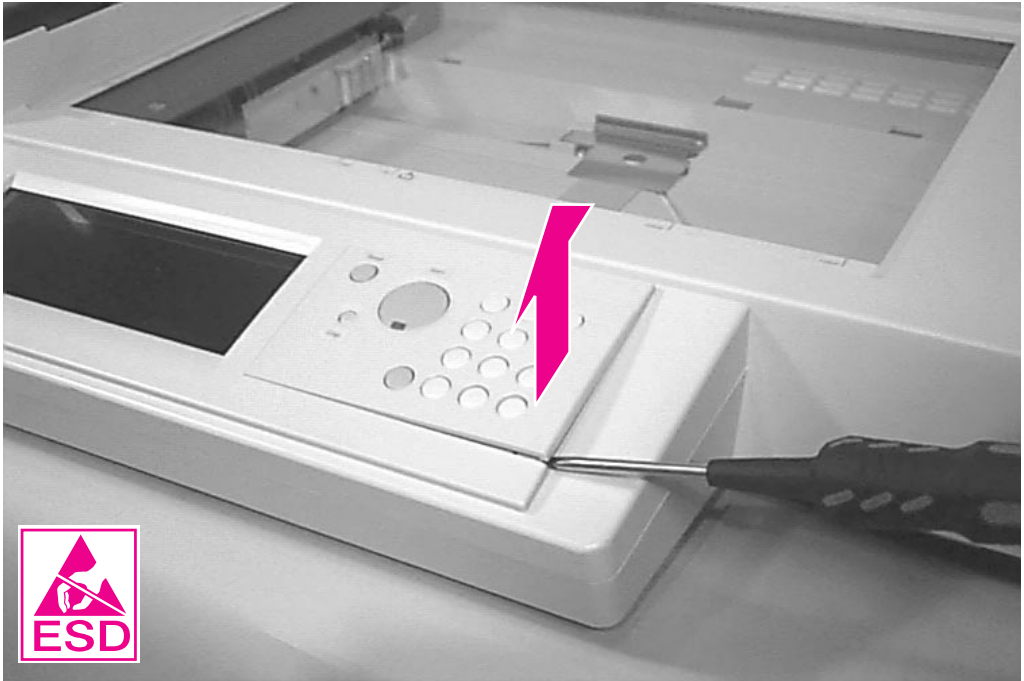


Figure 6-208 Front Panel (1 of 2)

- 1 Pry up the corner of the Front Panel overlay with a flat-blade screwdriver.
- 2 Lift off the overlay.

Note

The Front Panel can be removed while still attached to the Panel Cover. If this assembly is being removed to access the Flatbed Assemblies, go to "Panel Cover" on page 459.

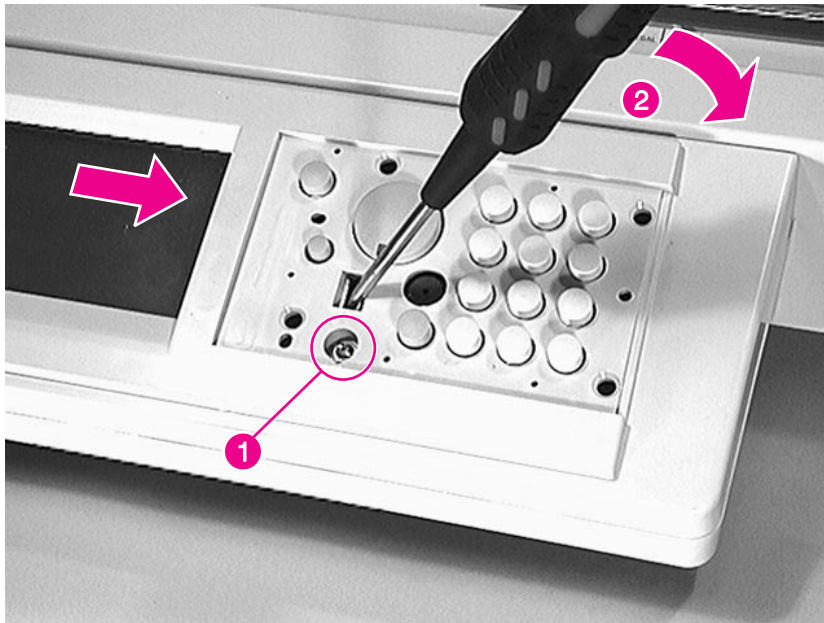


Figure 6-209 Front Panel (2 of 2)

- 3 Remove 1 TP screw (m3x8) (callout 1).
- 4 Insert a flat-blade screwdriver into the slot and push the handle to the right (callout 2) to pry the Front Panel loose, as shown by the arrow.

CAUTION

Be careful not to pull the connecting cable when you remove the Front Panel.

- 5 Remove the Front Panel.

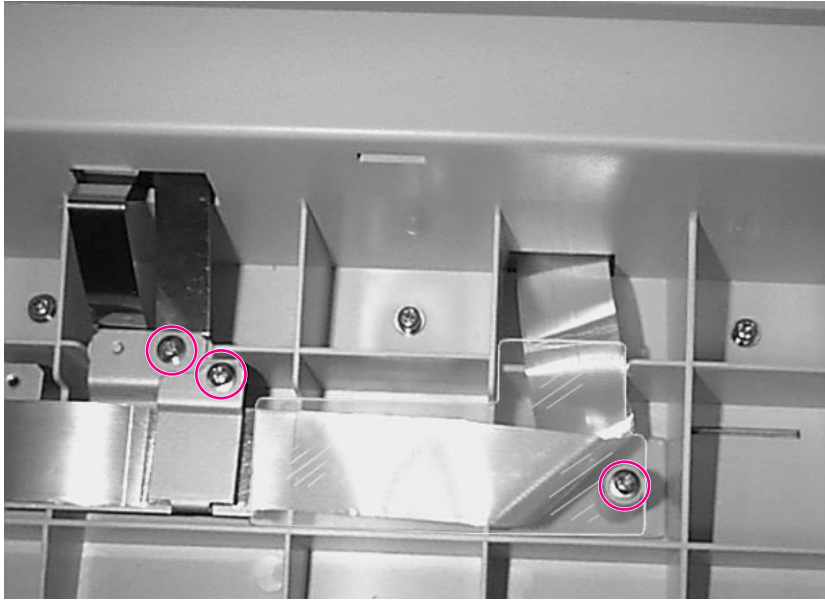


Figure 6-210 Front Panel Cable Clamp and Front Panel Frame Ground Plate

- 6** Remove 3 screws. Remove the Front Panel Cable Clamp and Front Panel Frame Ground Plate in order to remove the Ribbon Cable.

To replace

Be sure to place the top part of the Front Panel Cable Clamp on the exposed metal.

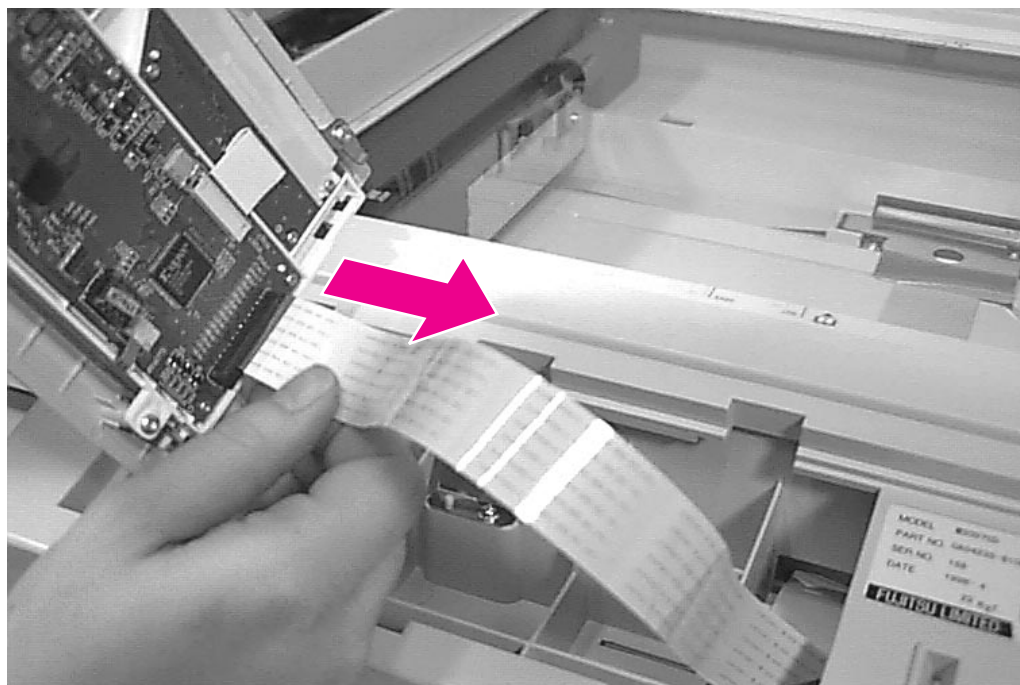


Figure 6-211 Front Panel Ribbon Cable

CAUTION

Handle the Ribbon Cable with care. Always release the connector before you pull on the cable. See the next page.

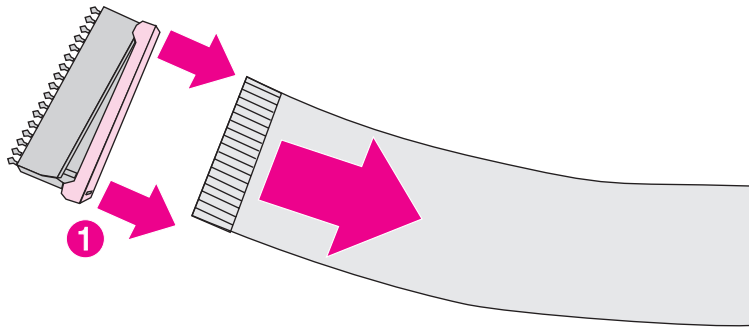


Figure 6-212 Unplugging the Ribbon Cable

- 7 To release the Ribbon Cable, use your fingernail to gently pull up each end of the connector (callout 1). Unplug the ribbon cable. Note the orientation of the contacts on the cable so the cable is not twisted.

To replace

- 1 Plug the cable into the connector. When the cable is inserted in the connector, the contacts point toward the middle of the Front Panel as shown in Figure 6-211. This also allows the cable to lie flat.
- 2 Press down the upper center of the Front Panel to engage the tabs as you push the Front Panel to the left, into place.

Panel Cover

CAUTION

Do not tip up the HP Digital Copy 320.

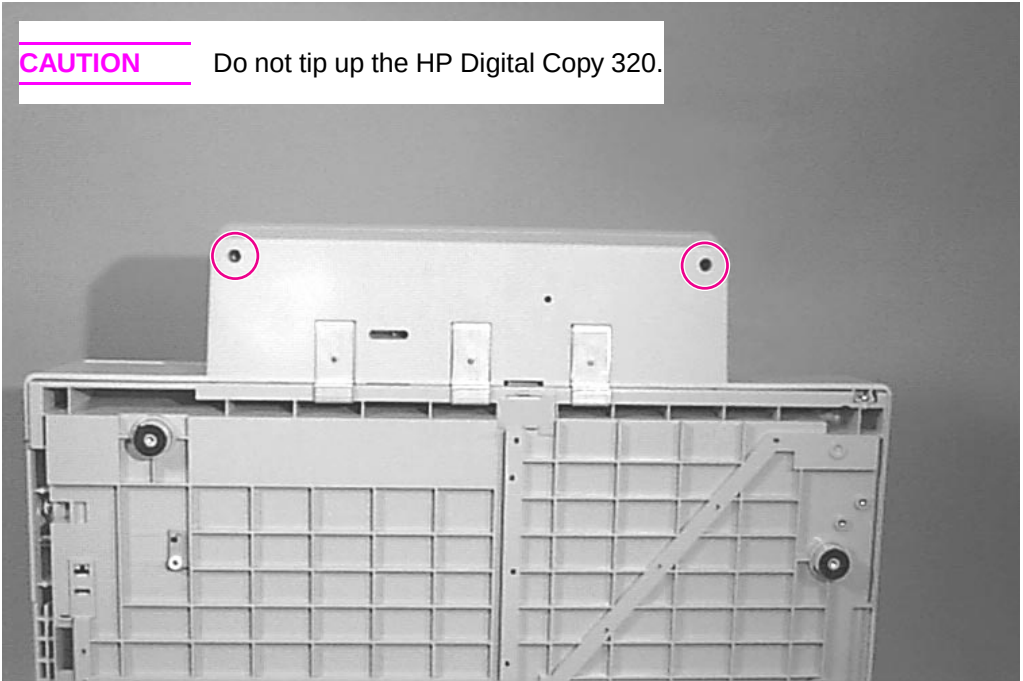


Figure 6-213 Panel Cover (bottom view)

CAUTION

Do not tip up the HP Digital Copy 320. Slide it to the edge of the table just far enough to access the screws.

- 1 Slide the HP Digital Copy 320 to the edge of the table.
- 2 Remove 2 TP screws (m3x8) underneath the Front Panel.
- 3 Lift up and pull out the Panel Cover.

Front Panel Brackets

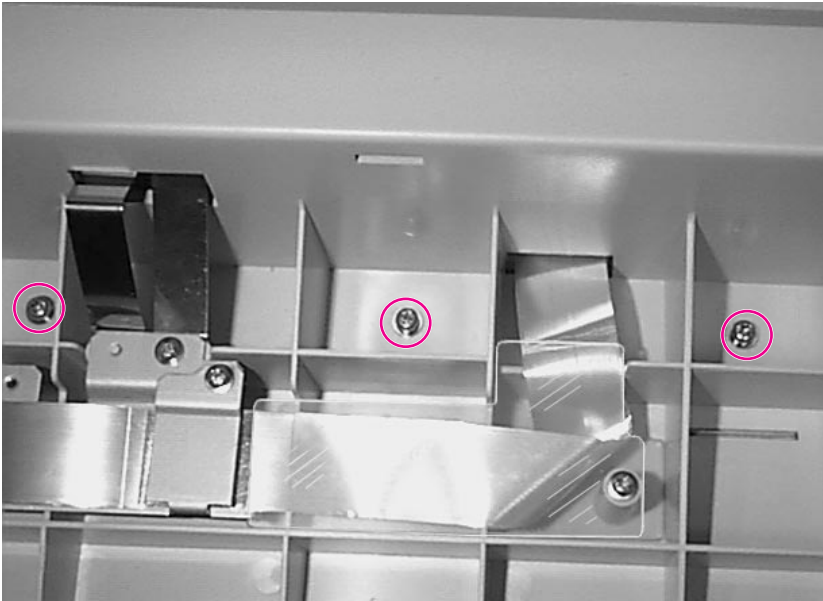


Figure 6-214 Front Panel Brackets (1 of 2)

- 1 Remove 3 (brass machine screw m4x8 with washer) screws.

CAUTION

Do not tip up the HP Digital Copy 320.

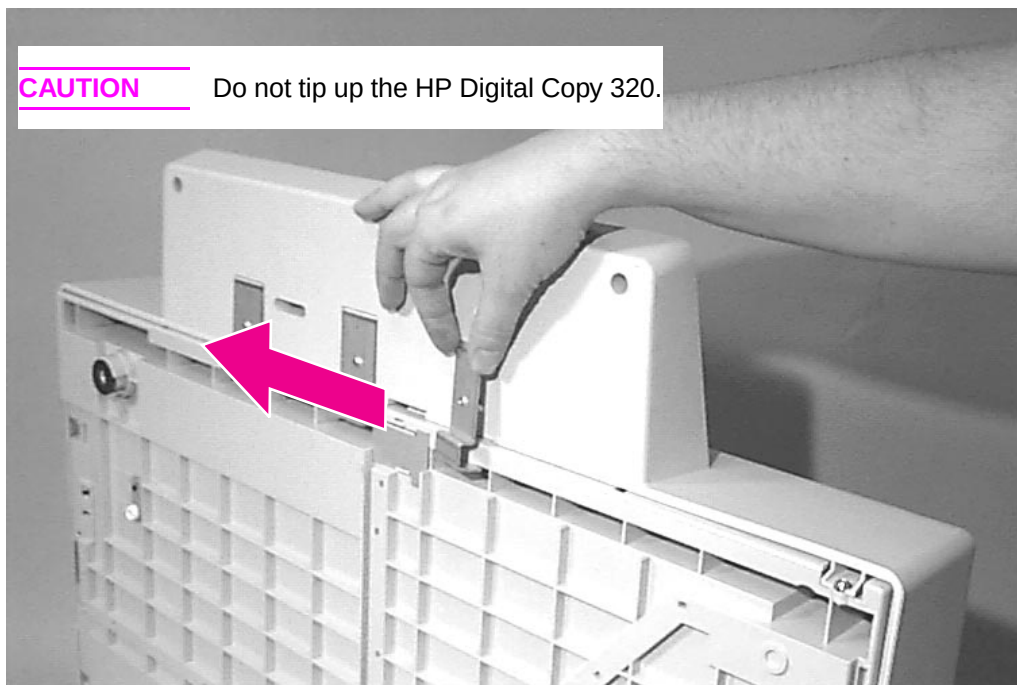


Figure 6-215 Front Panel Brackets (2 of 2)

CAUTION

Do not tip up the HP Digital Copy 320. Slide it to the edge of the table to access the bottom.

- 2 Slide the HP Digital Copy 320 to the edge of the table. Remove the brackets.

Upper Cover

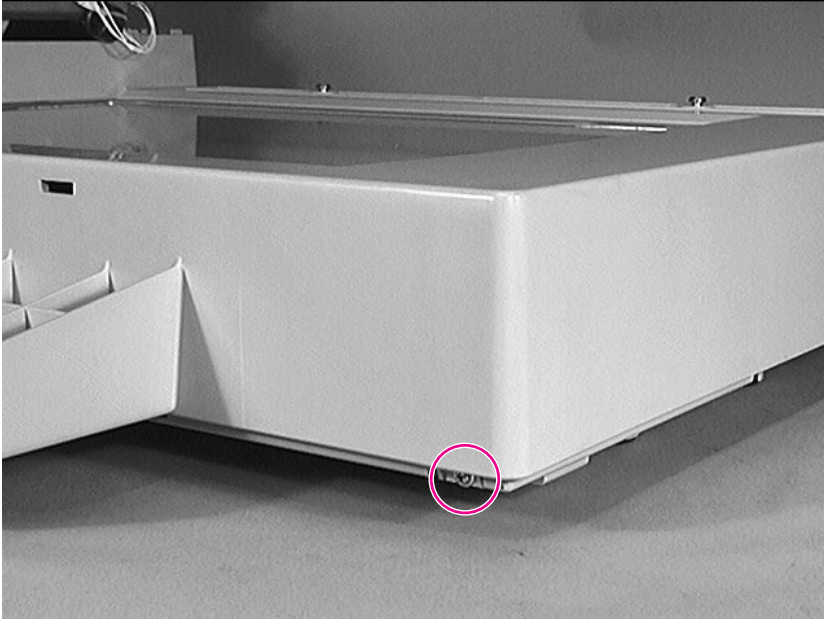


Figure 6-216 Upper Cover (1 of 2)

- 1 Remove the TP screw (m3x8) from the front right corner.

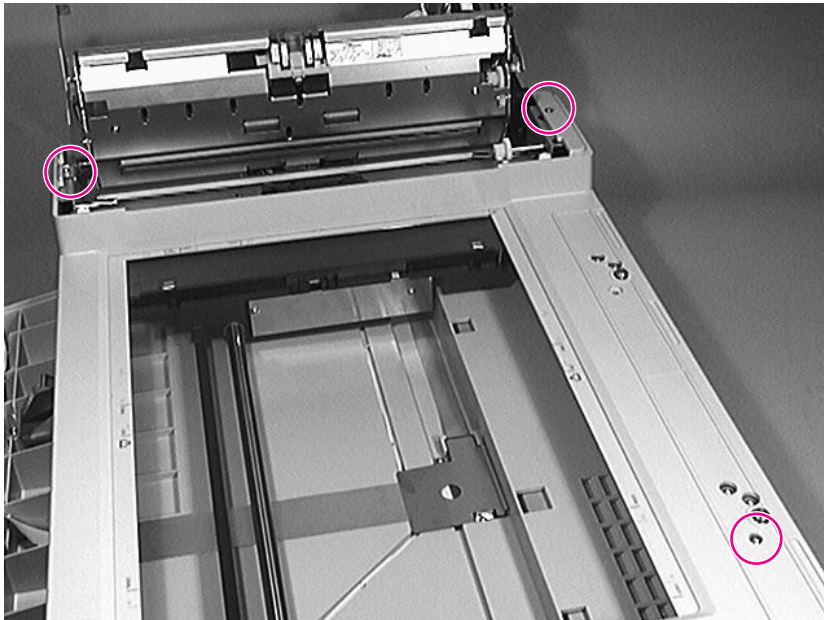


Figure 6-217 Upper Cover (2 of 2)

- 2 Remove 3 screws [two TP screws (m3x6) and one TP screw (m3x8)].

Note

For replacement, the screws in the ADF are longer.

The ADF is shown open to locate the screws. Always close the ADF to remove the Upper Cover.

CAUTION

Be careful of the LED PCA and Front Panel ribbon cable when you remove the cover.

- 3 Lift the Upper Cover straight up to remove it.

To replace

Carefully feed the Front Panel ribbon cable through the slot.

Copy Module Power Supply/Main Board Assemblies

WARNING!

Make sure the power is off and the main power to the system has been disconnected before servicing. See “Electrostatic Discharge (ESD) Precautions” on page 202.

The Power Supply and Main Board Tray contains the Copy Processor Board, the Power Supply, and the Control PCA.

Copy Processor Board

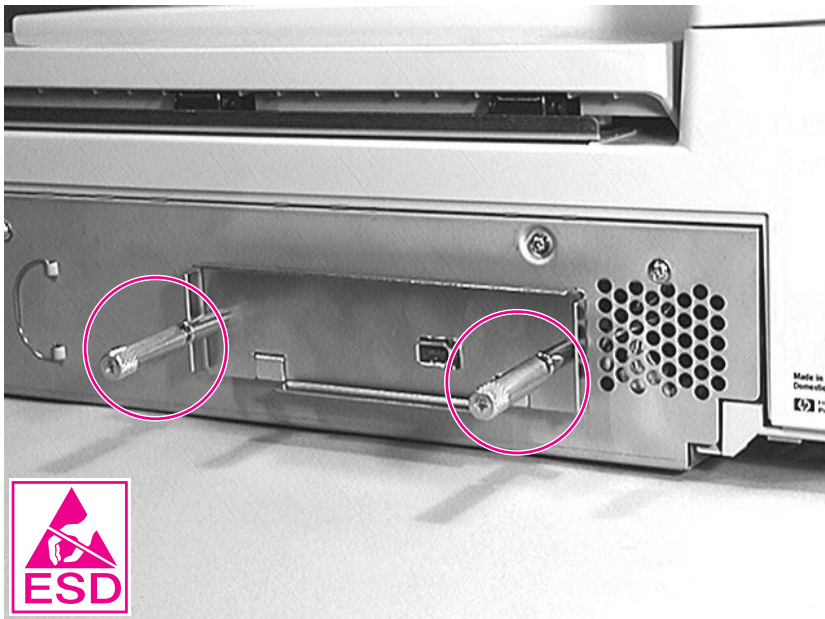


Figure 6-218 Copy Processor Board

CAUTION

The Copy Processor Board is ESD sensitive.

- 1 Remove 2 thumb screws.
- 2 Slide the Copy Processor Board out.

Power Supply and Main Board Tray

WARNING!

Make sure the power is off and the main power to the system has been disconnected before servicing. See “Electrostatic Discharge (ESD) Precautions” on page 202.

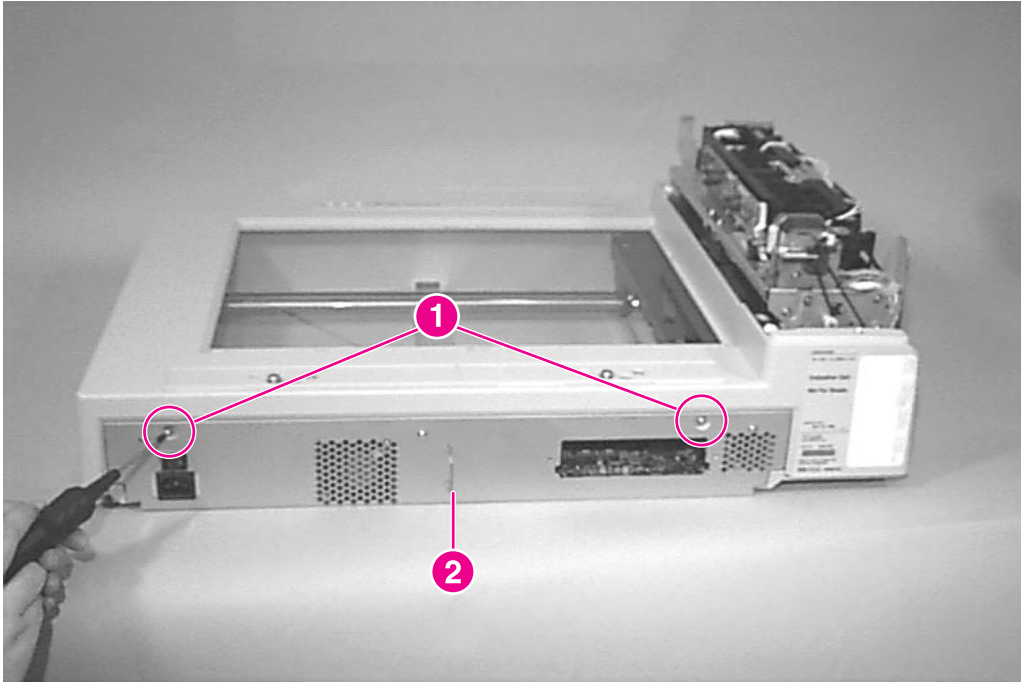


Figure 6-219 Power Supply and Main Board Tray (1 of 2)

- 1 Remove 2 brass machine screws with washers (m3x8) (callout 1).
- 2 Pull the Assembly out by the handle (callout 2) approximately 2.5 inches (6 centimeters).



Figure 6-220 Power Supply and Main Board Tray (2 of 2)

- 3 Unplug 3 connectors.
- 4 Remove the tray.

RFI Cover

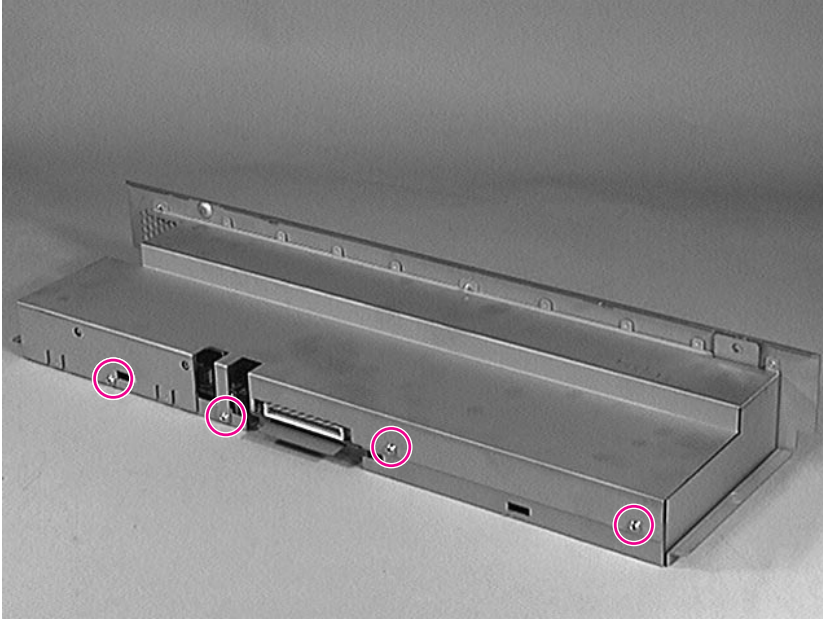


Figure 6-221 RFI Cover (inside/rear view)

Remove the RFI Cover (Radio Frequency Interference shield) in order to replace the Control PCA, the Power Supply, or the Fan Assembly.

- 1 Remove 4 TP screws (m3x8) from the rear of the RFI Cover.

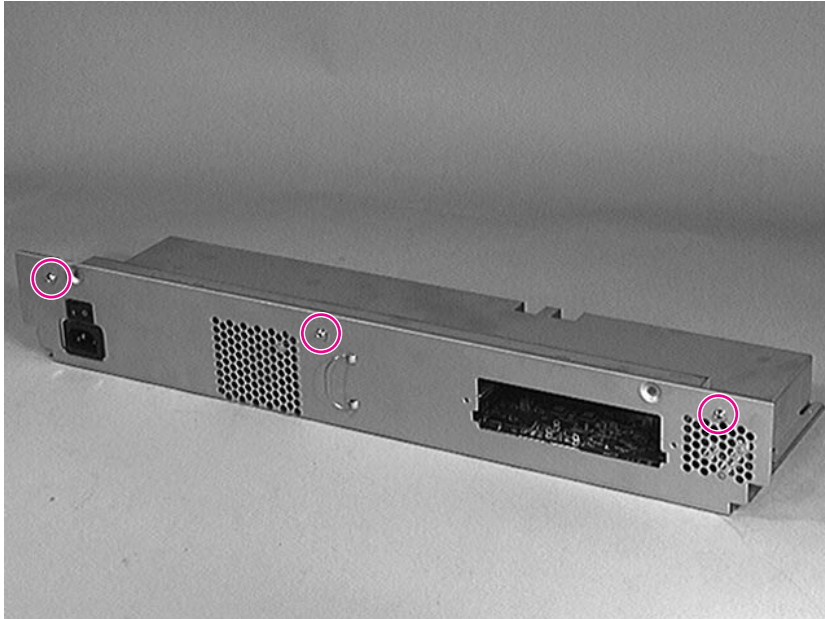


Figure 6-222 RFI Cover (outside/front view)

- 1 Remove 3 TP screws (m3x8) from the front of the RFI Cover.
- 2 Remove the RFI Cover.

Control PCA

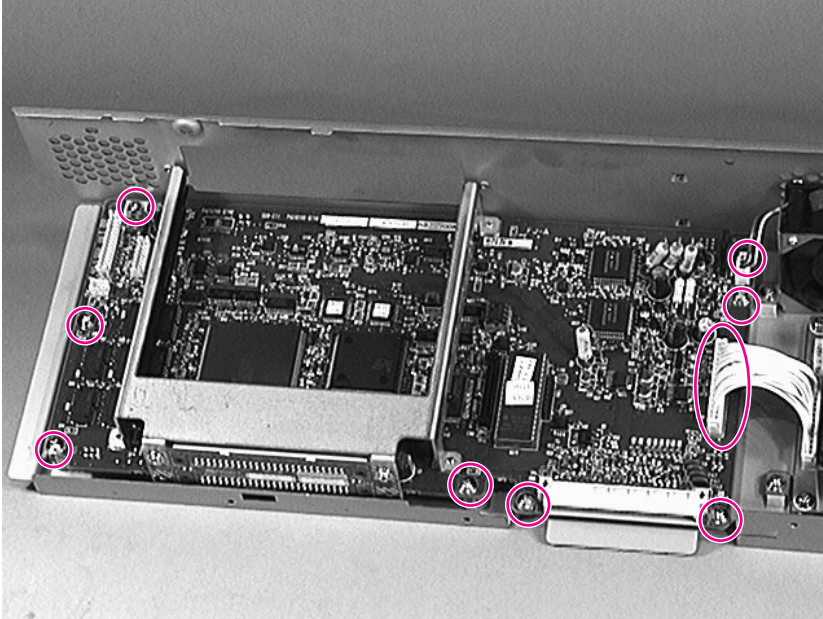


Figure 6-223 Control PCA

- 1 Remove the Power Supply and Main Board Tray and the RF Cover.
- 2 Remove 7 TP screws (m3x8).
- 3 Unplug 2 connectors.
- 4 Remove the Control PCA. Retain the EEPROM (page 471), Back PCA (page 474) and the Card Cage (page 470).

Card Cage

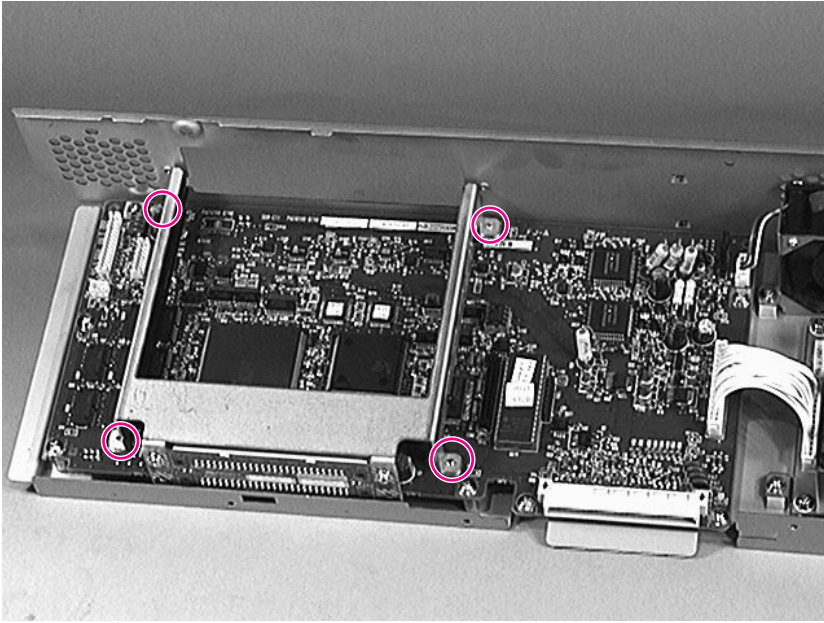


Figure 6-224 Card Cage

Note

To remove the Card Cage, flip over the Control PCA and remove 4 TP screws (m3x8).

EEPROM

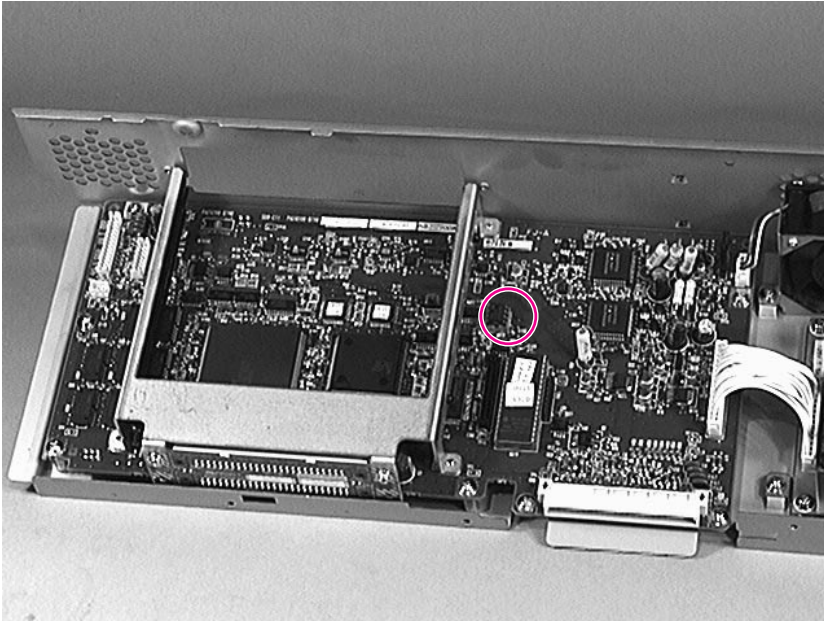


Figure 6-225 EEPROM

When you replace the Control PCA, retain the EEPROM from the old PCA and replace it on the new PCA in order to retain the default settings (such as calibration) for the HP Digital Copy 320.

Fan

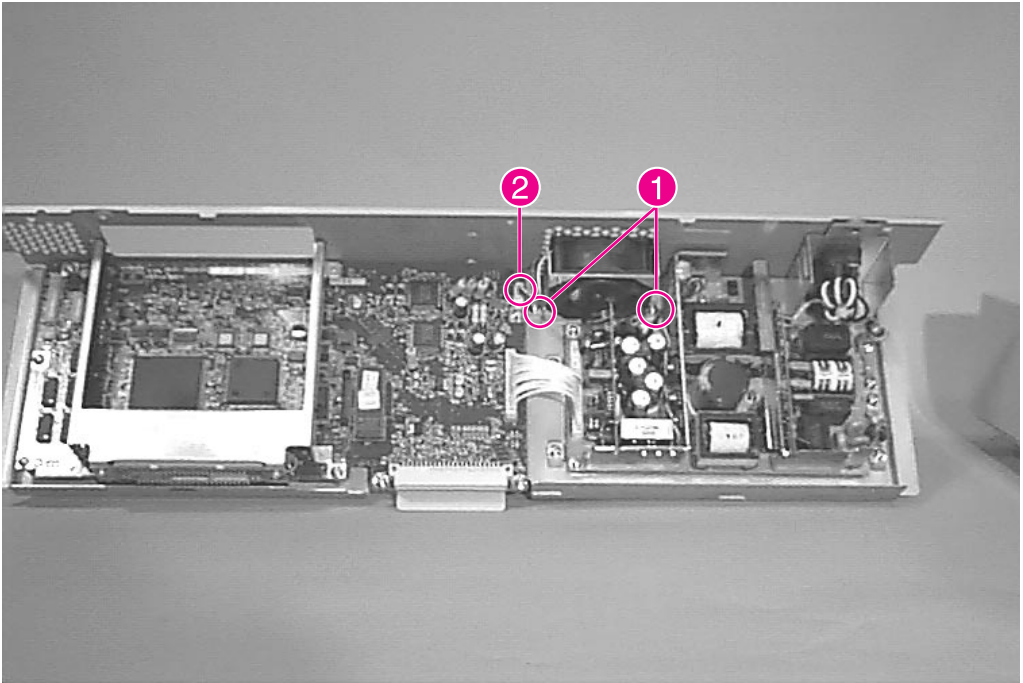


Figure 6-226 Fan

- 1 Remove the Power Supply and Main Board Tray and the RFI Cover.
- 2 Remove 2 TP screws (m3x8) (callout 1).
- 3 Unplug the connector (callout 2).

Power Supply

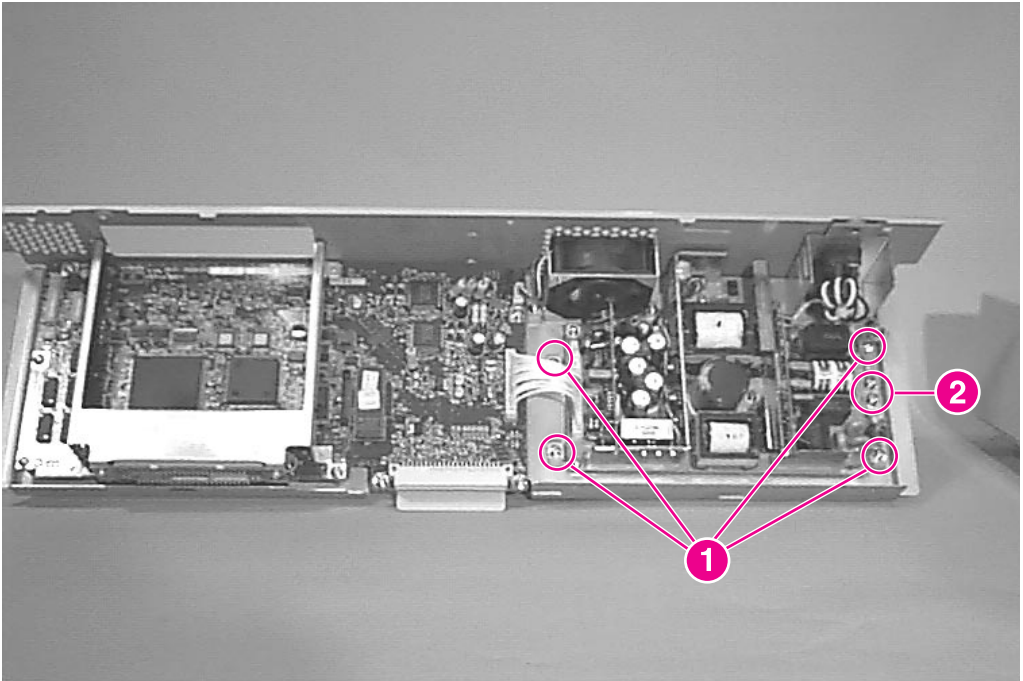


Figure 6-227 Power Supply

- 1 Remove the Power Supply and Main Board Tray and the RFI Cover.
- 2 Remove 4 TP screws (m3x8) (callout 1).
- 3 Remove 2 brass machine screws m4x8 with washer (callout 2).

Back PCA

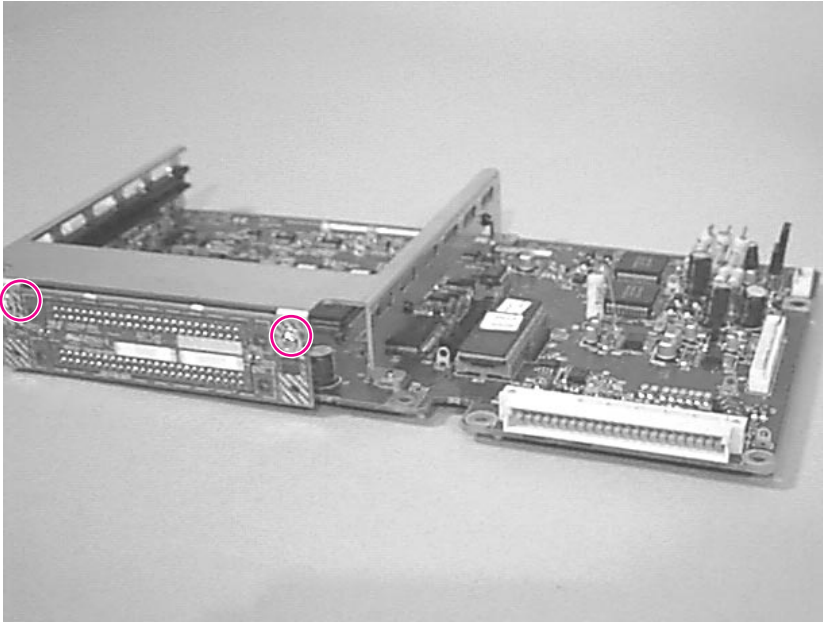


Figure 6-228 Back PCA

- 1 Remove the Power Supply and Main Board Tray and the RFI Cover. Remove the Control PCA (page 469).
- 2 Remove 2 TP screws (m3x8).
- 3 Pull out the Back PCA.

Note The board is keyed for correct insertion.

Copy Module ADF Unit Assemblies

Note

To access the ADF Unit Assemblies, remove the skins down to the ADF Cover (pages 445 to 452).

Optical Unit

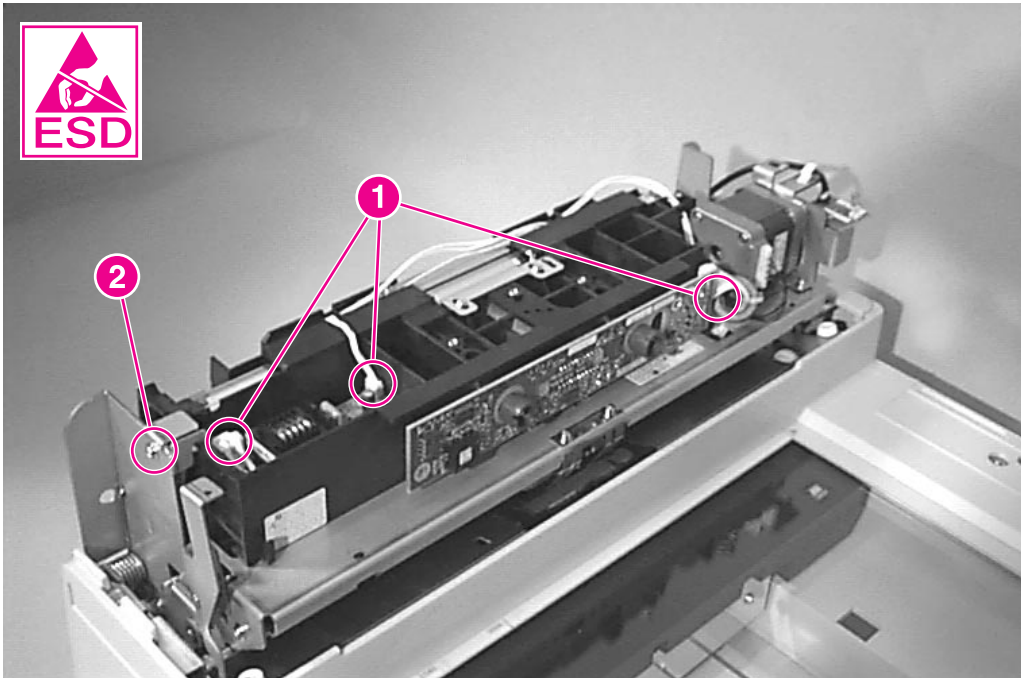


Figure 6-229 Optical Unit (1 of 2)

CAUTION

The Optical Unit is ESD sensitive.

- 1 Unplug 3 connectors (callout 1). Remove the cables from their routing guides. Note the routing of the cables in order to replace them in the correct positions. (Routing is also shown on page 486.)
- 2 Remove 1 TP screw (m3x8) and the Optical Unit Tie-down with Pad (callout 2).

CAUTION

Do not remove the CCD PCA or any of the screws on the Optical Unit other than the screws mentioned. Do not disassemble the Optical Unit.

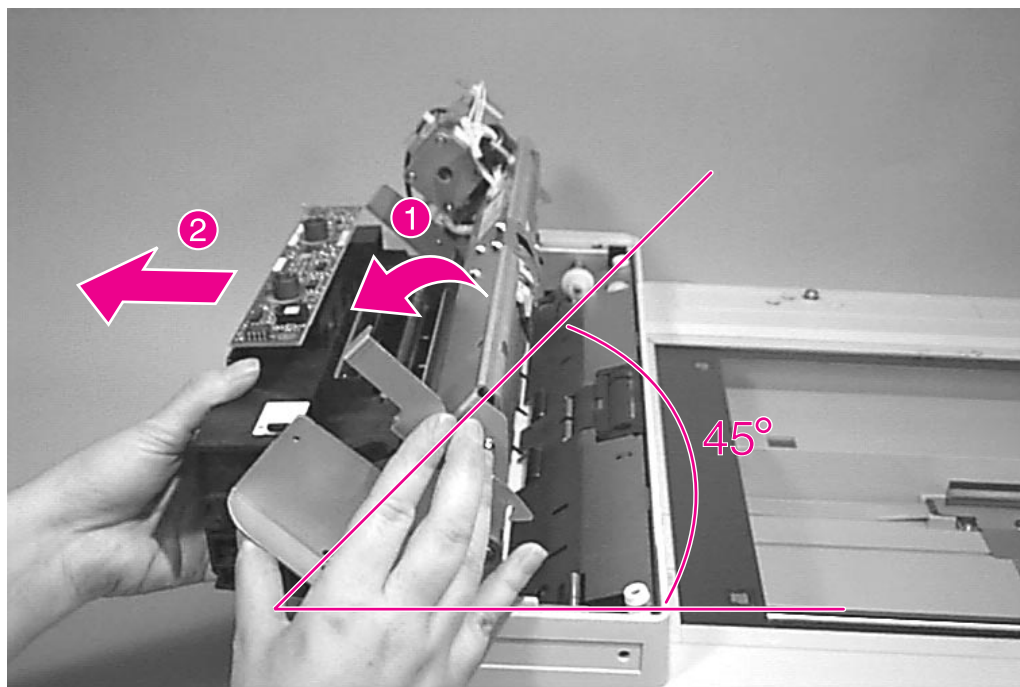


Figure 6-230 Optical Unit (2 of 2)

- 3 Holding the Optical Unit, release the ADF lever and open the ADF Assembly 45°. Rotate the Optical Unit as shown (the green board is on top and level) (callout 1).
- 4 Slide the Optical unit to the left off the slots in the metal bar (callout 2).

Note

The replacement Optical Unit includes a Back Side Lamp and Lamp Inverter PCA, but not an Optical Unit Tie-down with Pad.

ADF Lamp PCA

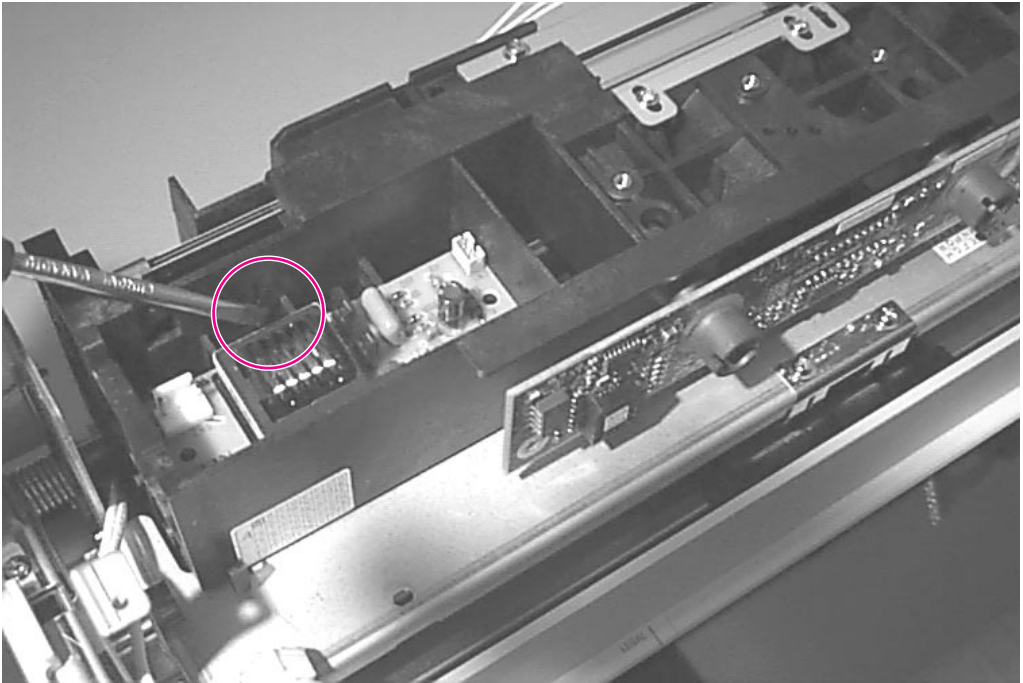


Figure 6-231 ADF Lamp PCA (1 of 2)

Note

It is not necessary to remove the Optical Unit to reach the ADF Lamp PCA.

CAUTION

Be careful not to damage the PCA as you remove it.

- 1 Use a flat-blade screwdriver to pry the tab loose.

CAUTION

Do not touch the Optical Unit Mirrors. Fingerprints will affect image quality.

To replace

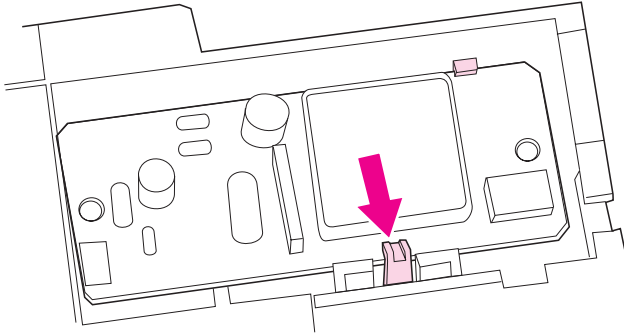


Figure 6-232 ADF Lamp PCA (2 of 2)

Note the orientation of the PCA to replace it in the correct position. The PCA fits under the tabs.

ADF Lamp

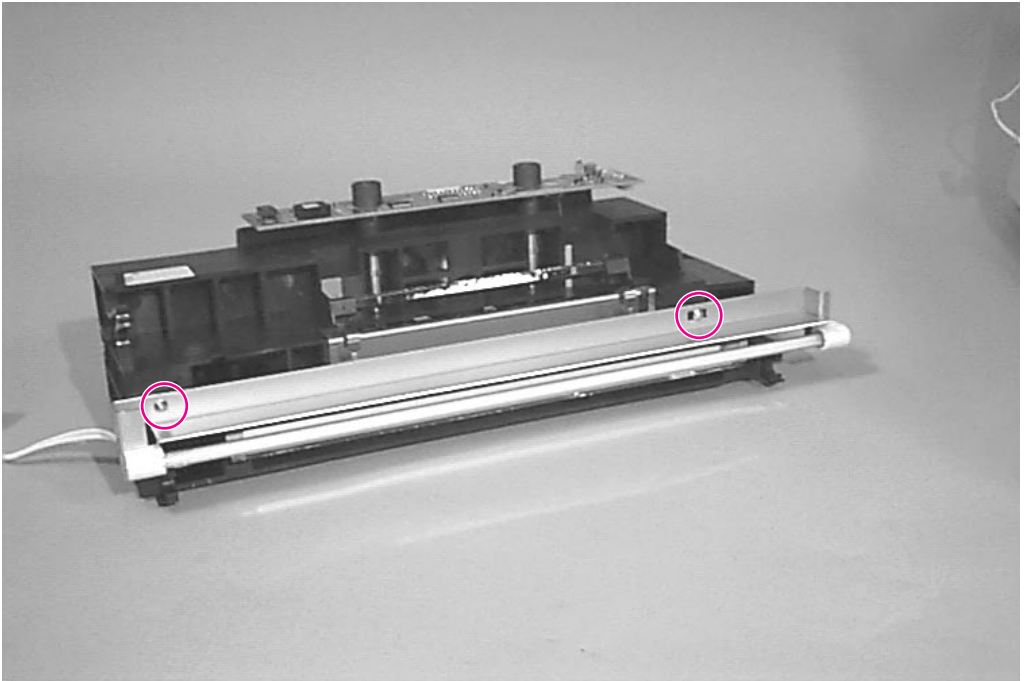


Figure 6-233 ADF Lamp

Remove 2 TP screws (m3x8).

CAUTION

Remove the Lamp carefully; it is fragile. Do not disassemble the Optical Unit beyond removal of the Lamp and Lamp PCA; it will be irreparably damaged!

To replace

Replace the screw nearest the Lamp cable first.

CAUTION

Do not over-tighten the screws holding the Lamp in place. Over-tightening the screws can damage the plastic.

Sensor Unit Assembly

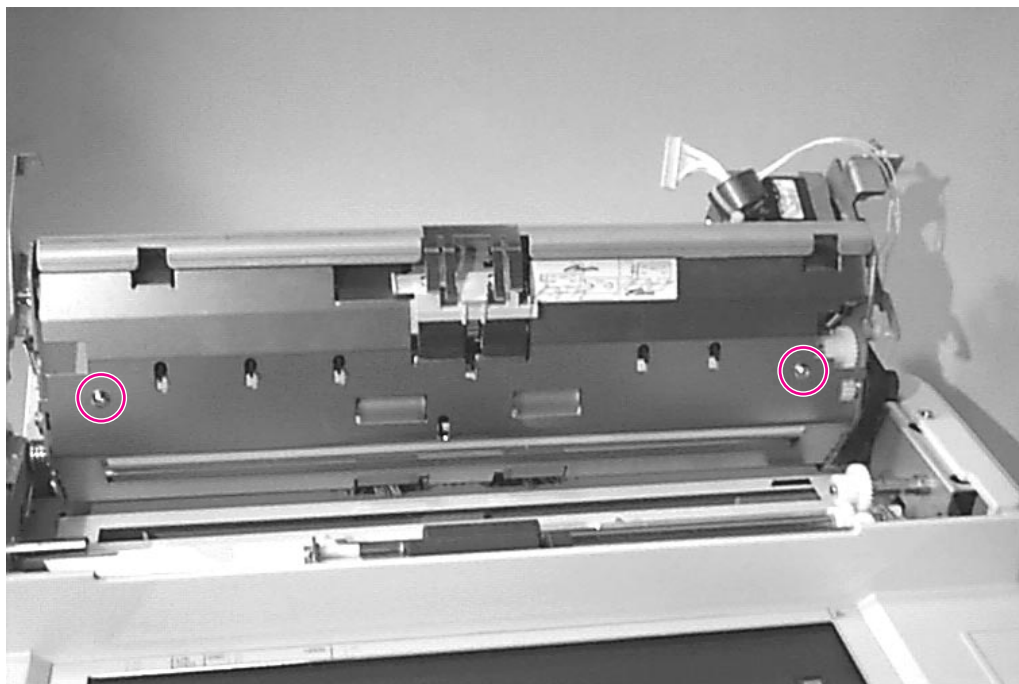


Figure 6-234 Sensor Unit Assembly (1 of 3)

- 1 Remove the Optical Unit.
- 2 Remove the Separation Pad (page 440).
- 3 Remove 2 TP screws (m3x8) as shown.

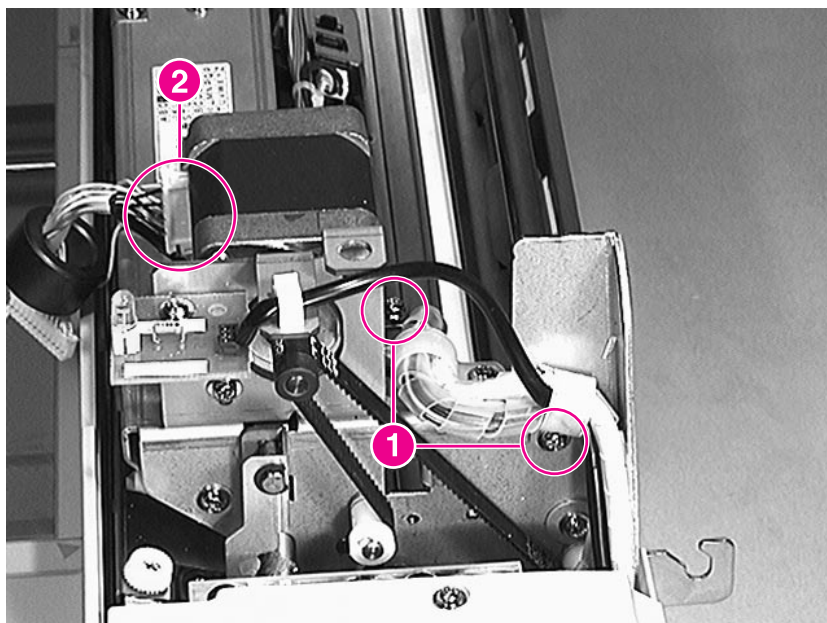


Figure 6-235 Sensor Unit Assembly (2 of 3)

- 4 Remove 1 TP screw (m3x8) from each of the 2 cable holders and remove the cables from the cable holders (callout 1).
- 5 Unplug 1 connector from the motor (callout 2).
- 6 Remove the cables from the wiring harness sleeve.

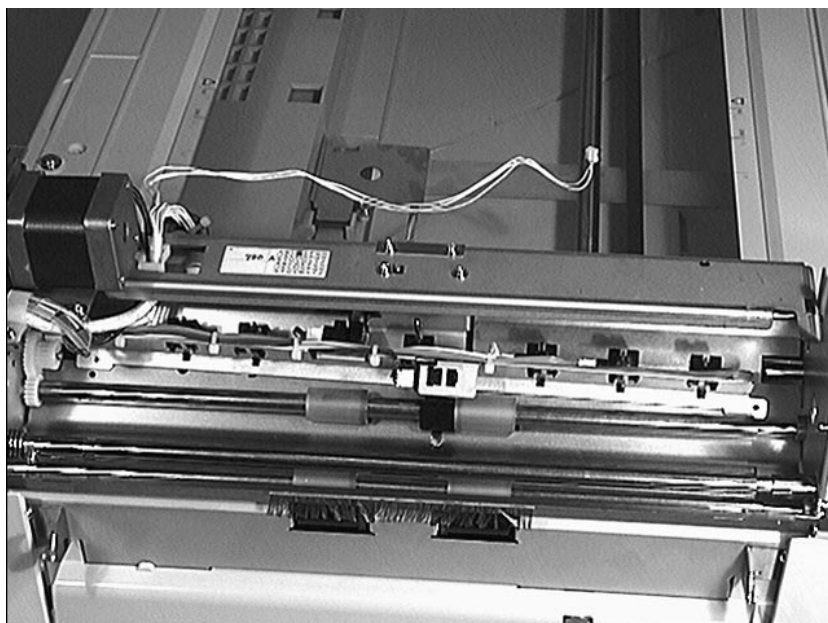


Figure 6-236 Sensor Unit Assembly (3 of 3)

- 7 Remove the Sensor Unit Assembly.

ADF Motor Unit

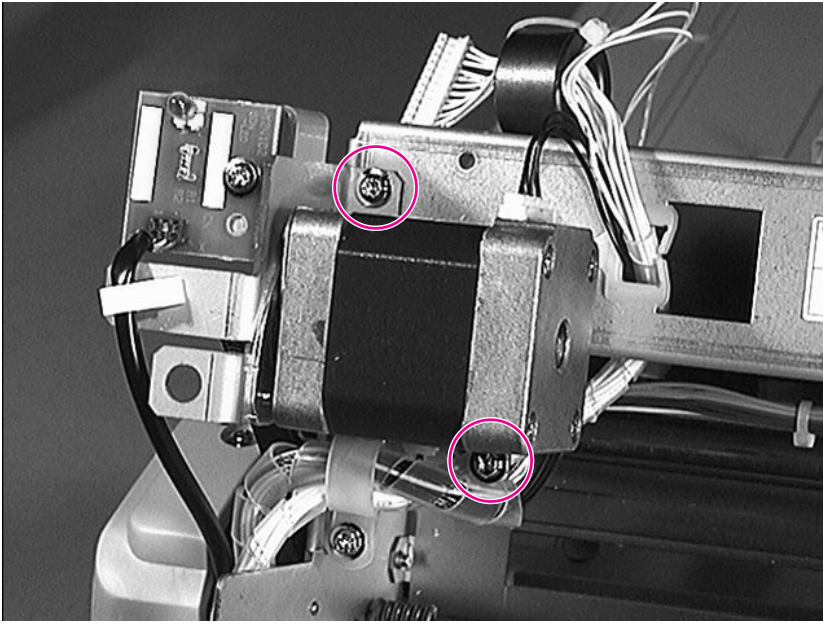


Figure 6-237 ADF Motor Unit

- 1 Remove the ADF Latch Cap (page 451) and the ADF Cover (page 452).
- 2 Unplug the connector from the ADF Motor.
- 3 Remove 2 TP screws (m3x8).
- 4 Move the belt out of the way.
- 5 Remove the ADF Motor.
- 6 Remove the belt (see the next page).

ADF Belt

- 1 Remove the ADF Latch Cap (page 451) and the ADF Cover (page 452).

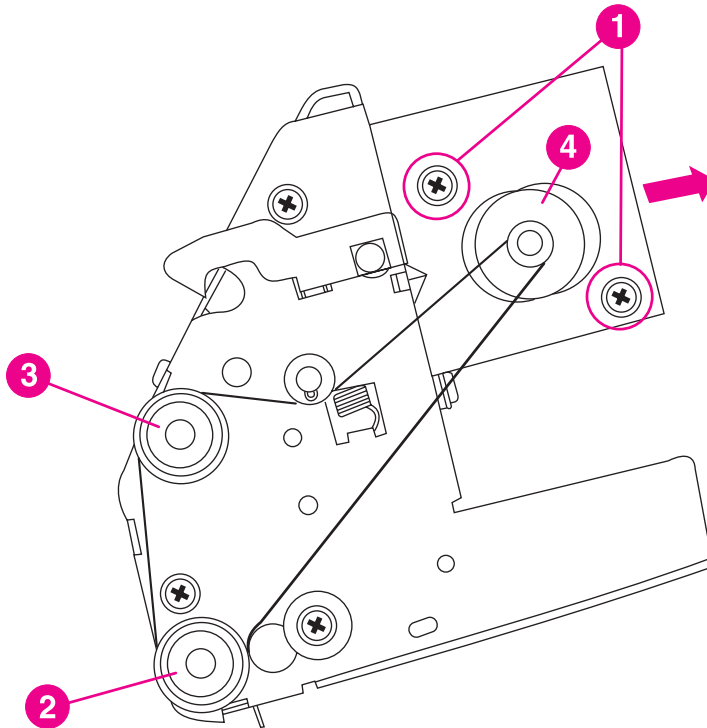


Figure 6-238 ADF Belt

- 2 Loosen 2 screws (callout 1) and remove the ADF Belt.

To replace

- 1 Place a new belt on pulleys 2 and 3 as shown.
- 2 Place the belt on pulley 4.

To adjust belt tension

- 1 Make sure the 2 screws (callout 1 in Figure 6-238) on the ADF Motor Unit are loose when you adjust the belt tension.
- 2 To adjust the belt tension, pull the motor up firmly (by hand only).

Note

It is very difficult to overtighten the belt tension by hand. A belt that is too loose, however, can adversely affect image quality.

- 3 Maintaining upward pressure on the motor, tighten the 2 screws (callout 1) on the ADF Motor Unit.

LED Assembly PCA

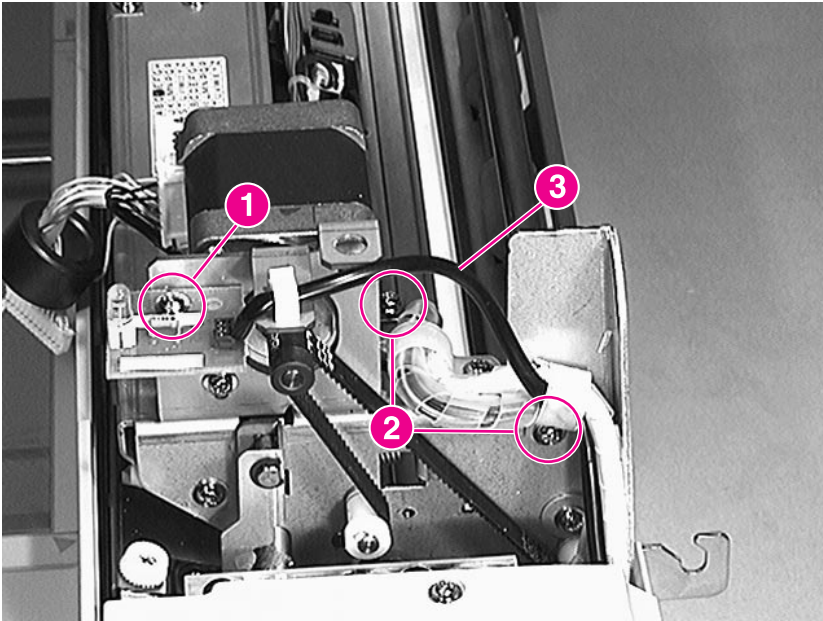


Figure 6-239 LED Assembly PCA

- 1 Remove the ADF Latch Cap (page 451) and the ADF Cover (page 452).
- 2 Remove 1 TP screw (m3x8) (callout 1).
- 3 Remove 1 TP screw (m3x8) from each of the 2 cable holders (callout 2) and remove the cables from the cable holders.

CAUTION

Do not attempt to unplug the connector from the PCA. It is permanently attached to the PCA on one end. Unplug the other end from the Main Board.

- 4 Unplug 1 connector from the Main Board.
- 5 Remove the cable (callout 3) from the wiring harness sleeve.

To replace

Note the PCA has 2 holes, one for the screw and one for the locating pin. Be sure to orient the PCA properly with the 2 holes.

ADF Unit

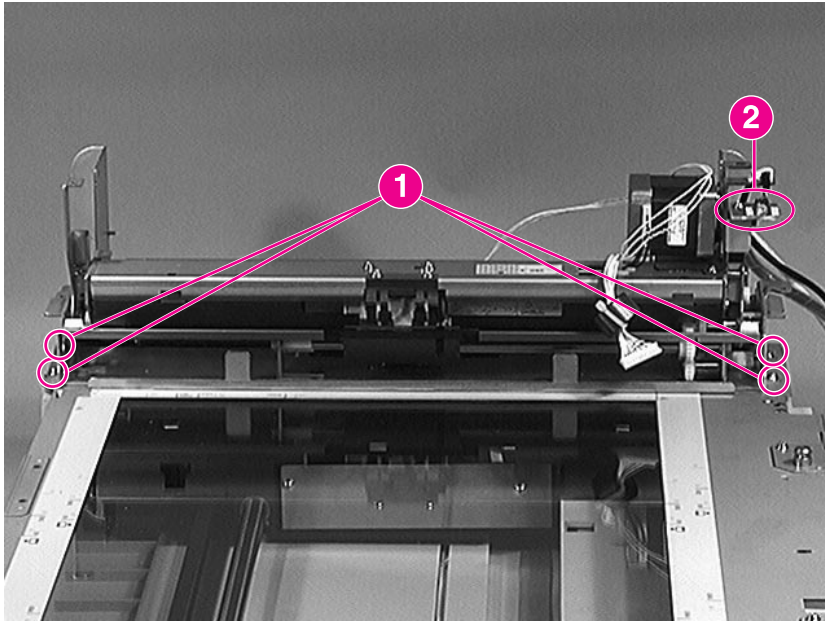


Figure 6-240 ADF Unit (shown without Optical Unit)

Note

To get to the Glass Plate assemblies, you can remove the ADF Unit with the Optical Unit intact. (An Optical Unit is not included with a replacement ADF Assembly.)

- 1 Remove 4 TP screws (m3x6) (callout 1) and unplug 3 cables from the Main Board Tray (shown in Figure 6-220 on page 466).

WARNING!

Once the ADF latch is removed, if the lever is triggered the ADF can spring open rapidly and pinch your fingers.

CAUTION

Be careful not to damage the LED Assembly (callout 2) when you are working around the ADF Unit.

- 2 Lift off the ADF Unit.

To replace

- 1 The ADF is keyed to the Glass Plate Assembly. Make sure it fits properly in its place before you replace the screws.
- 2 Always perform an offset adjustment whenever you replace the ADF. See “Calibrating the HP Digital Copy 320” on page 126.

Copy Module Flatbed Assemblies

Note

To access the Flatbed Assemblies, remove the skins (starting on page 445), including the Front Panel (starting on page 454) and the ADF Unit Assemblies (starting on page 475).

Front Panel Frame Ground Spring

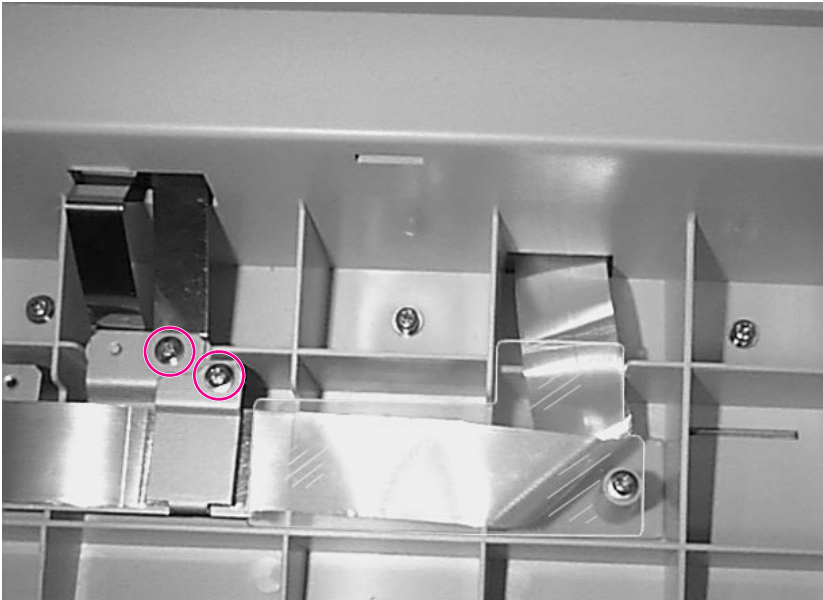


Figure 6-241 Front Panel Frame Ground Spring

- 1 Remove 2 TP screws (m3x8).
- 2 Remove the spring.

Output Tray Brackets

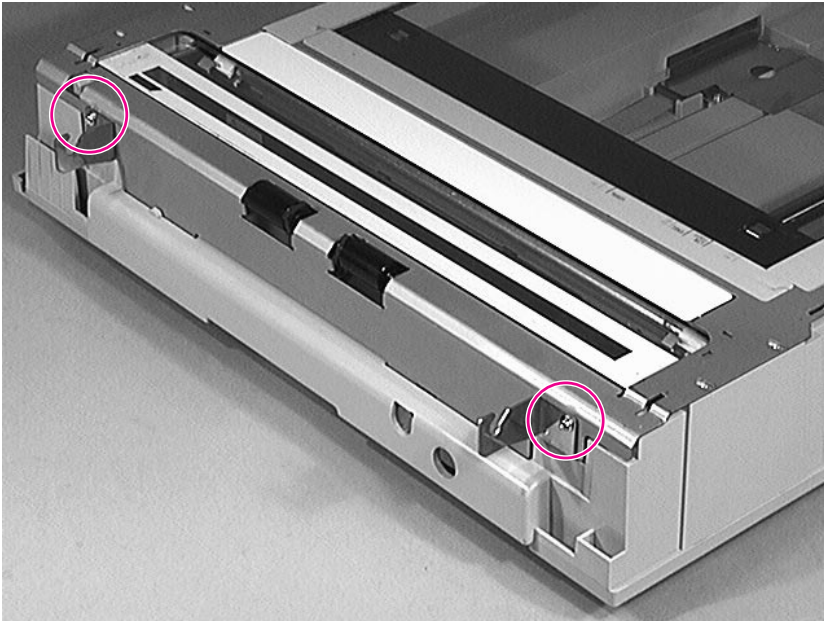


Figure 6-242 Output Tray Brackets

Remove 1 TP screw (m3x8) from each bracket and remove the bracket.

Glass Plate Assembly

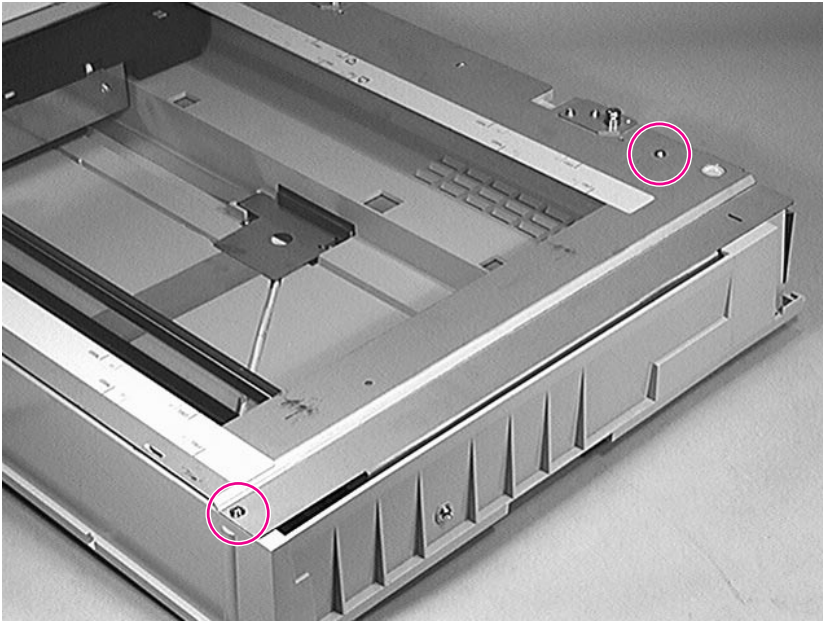


Figure 6-243 Glass Plate Assembly

- 1 Remove the ADF Unit (page 487). Output Tray Brackets and open the Power Supply and Main Board Tray.
- 2 Remove 2 TP screws (m3x8) as shown.

CAUTION Remove the Glass Plate Assembly carefully; it is breakable.

- 3 Remove the Glass Plate Assembly.

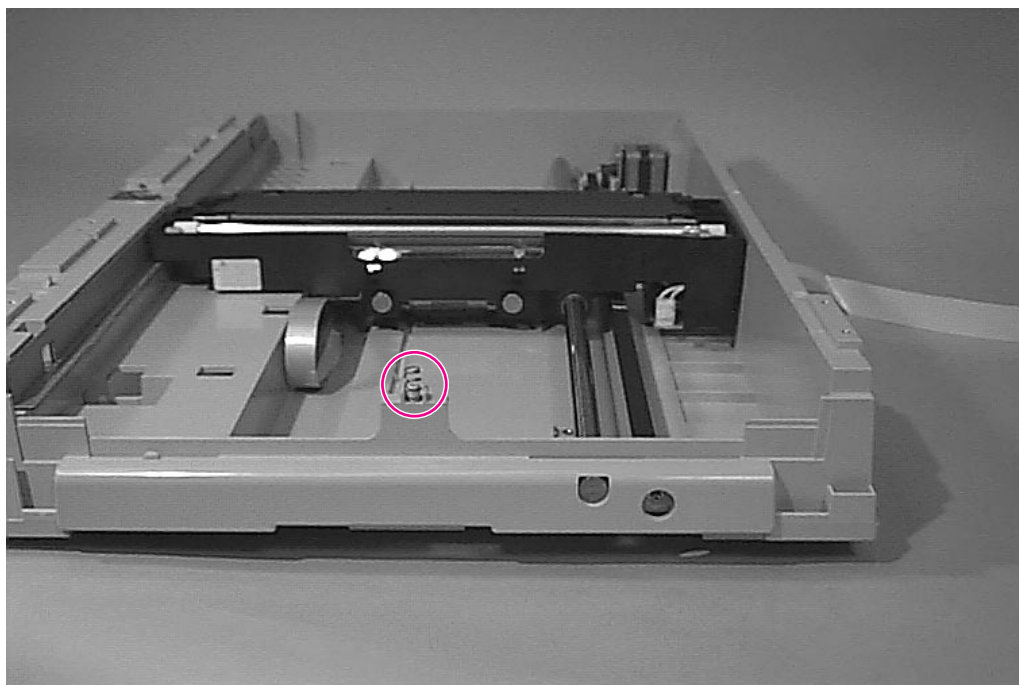


Figure 6-244 Idle Roller Coil Spring

Remove the Idle Roller Coil Spring.

To replace

Align the Idle Roller Coil Spring on the pin and press it into place.

Home Position Sensor

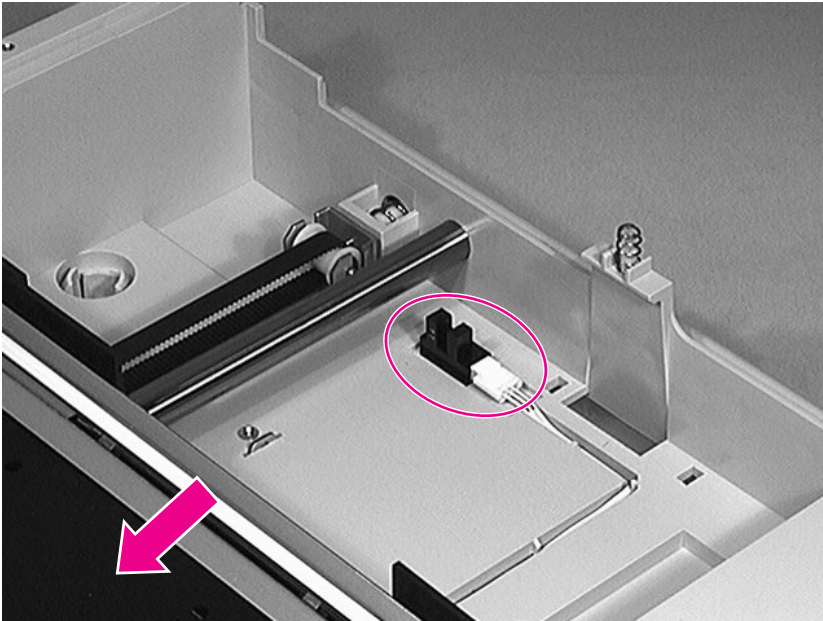


Figure 6-245 Home Position Sensor (1 of 2)

- 1 Move the Carrier Unit away from the sensor.



Figure 6-246 Home Position Sensor (2 of 2)

- 2 From underneath, pry the tabs to release the sensor.
- 3 Unplug the connector. (The cable is included with the Junction PCA.)

Carrier Unit Lamp

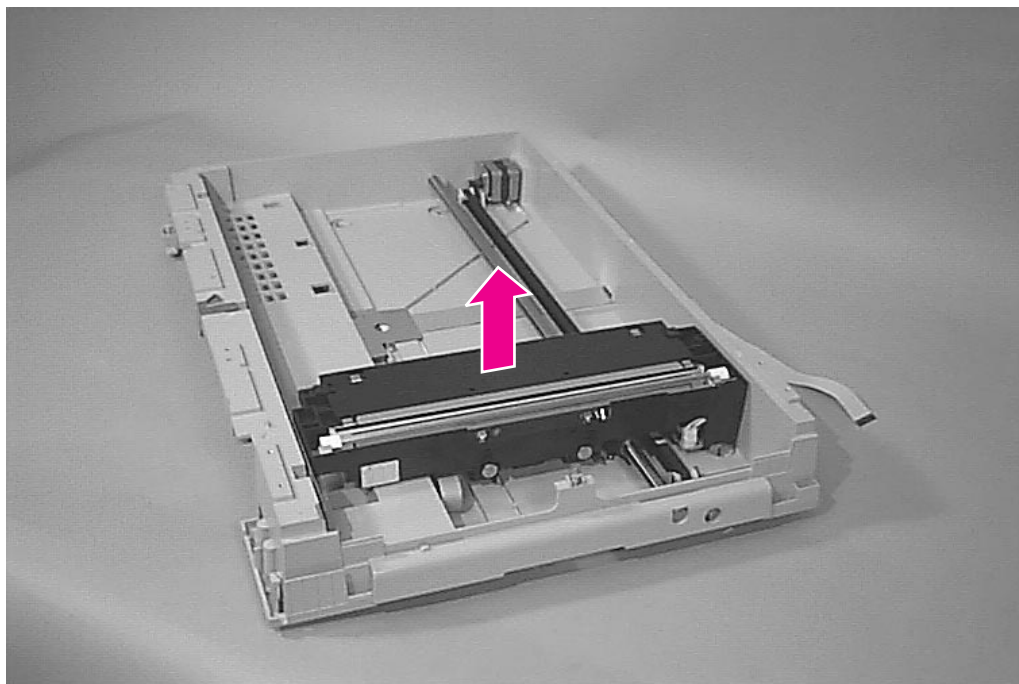


Figure 6-247 Dust Cover

- 1 Remove the Carrier Unit Dust Cover.

To replace

Place the dust cover shiny side down and underneath the long metal tab.

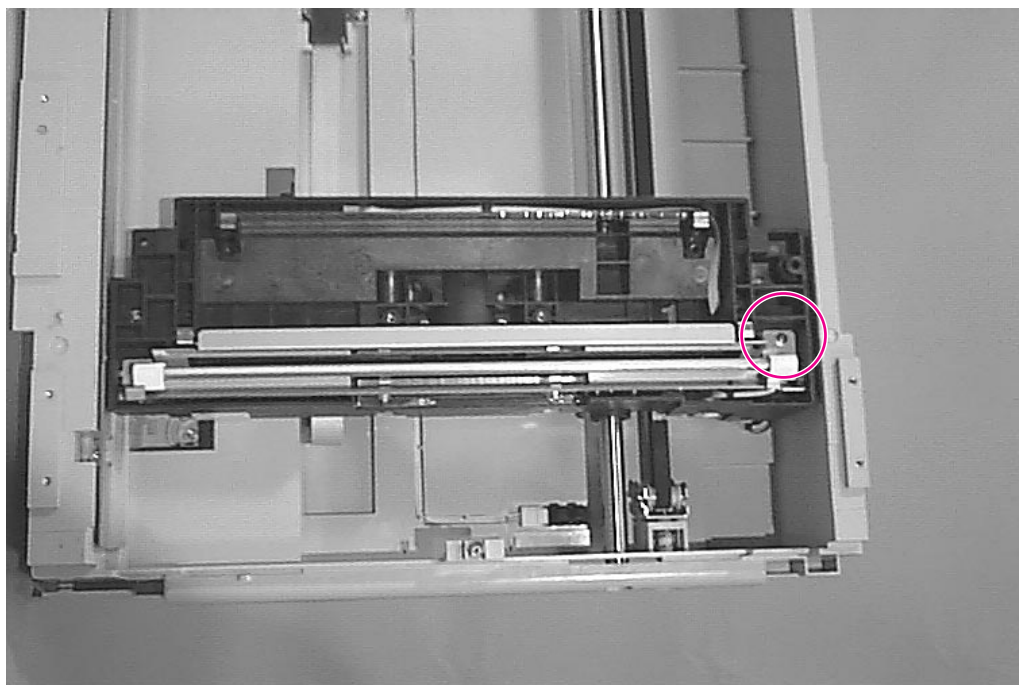


Figure 6-248 Lamp (1 of 2)

- 1 Remove 1 TP screw (m3x8).

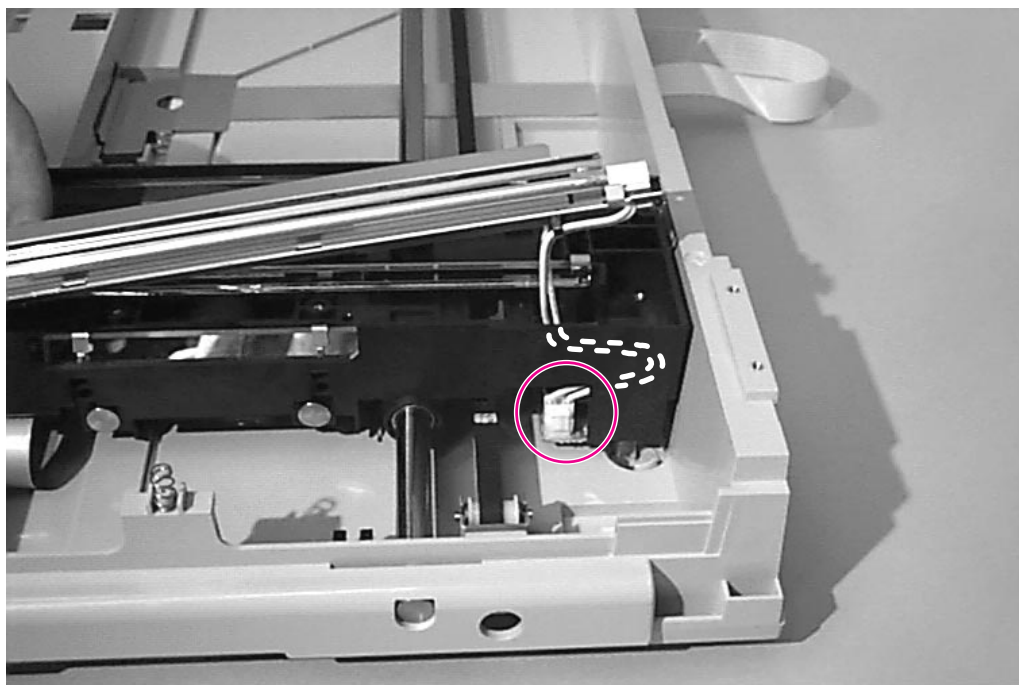


Figure 6-249 **Lamp (2 of 2)**

- 2 Unplug 1 connector.

CAUTION

When you replace the Lamp, be sure to replace the cable as far as possible into the recess of the corner of the Carrier Unit so it will not get pinched or cut.

Note

For replacement, the rear end of the Lamp goes in first.

Carrier Unit

CAUTION

Do not disassemble the Carrier Unit.

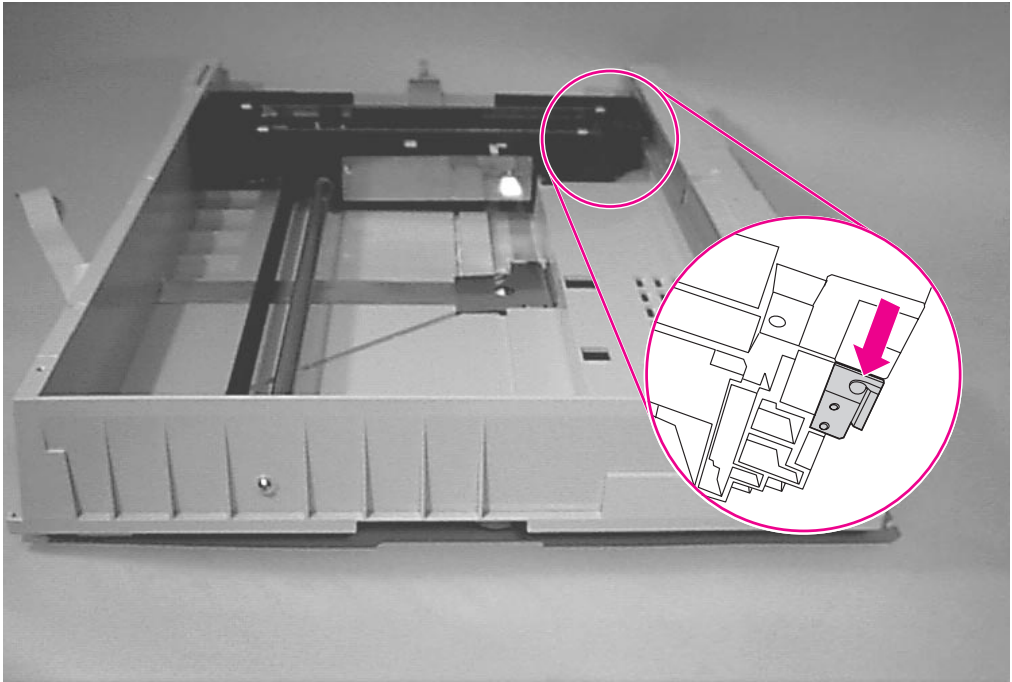


Figure 6-250 Carrier Unit (1 of 2)

- 1 Remove 1 screw from the end of the Carrier Shaft.

Note

When you replace the Carrier Unit, check the alignment of the rail and rail bushing. The metal bushing should fit into the rail instead of sitting on top.

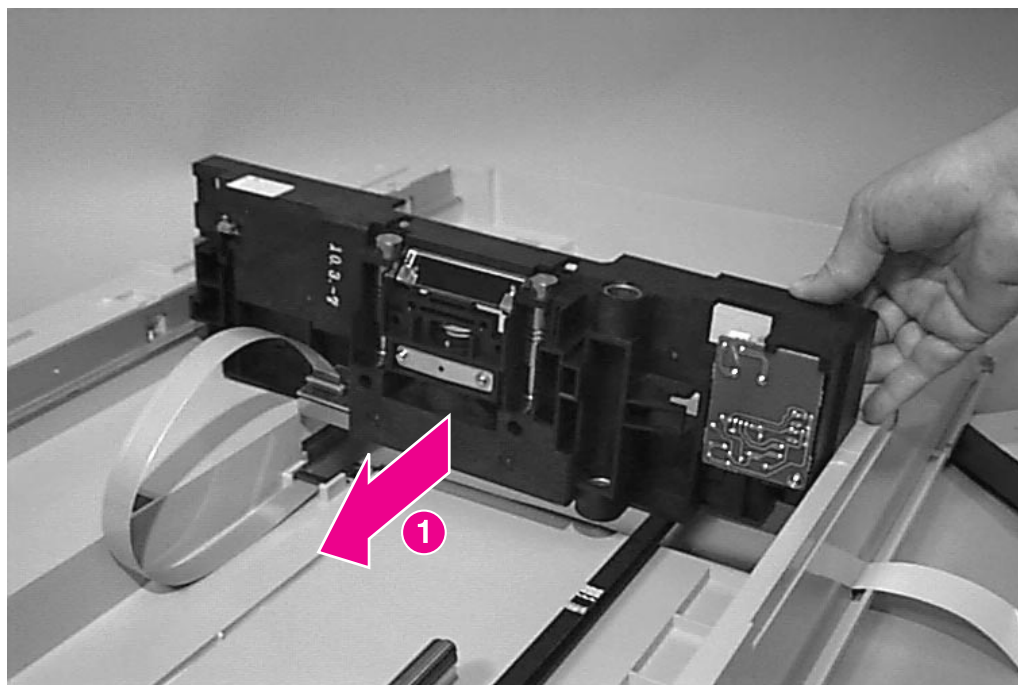


Figure 6-251 Carrier Unit (2 of 2)

- 2 Move the Carrier to the center (callout 1).
- 3 Pull out the Carrier Shaft.

Cleaning and Lubricating the Carrier Unit Shaft

- 1 If the Carrier Unit Shaft is dirty, wipe it off with a cloth, then relubricate it (see below). Otherwise, be careful not to remove the lubricant.
- 2 Place an even coating of Terrace Oil 46 (light weight oil) on the Carrier Unit Shaft as needed (for example, if paper dust or other material interferes with movement of the Carrier Unit, or if you have cleaned the shaft).

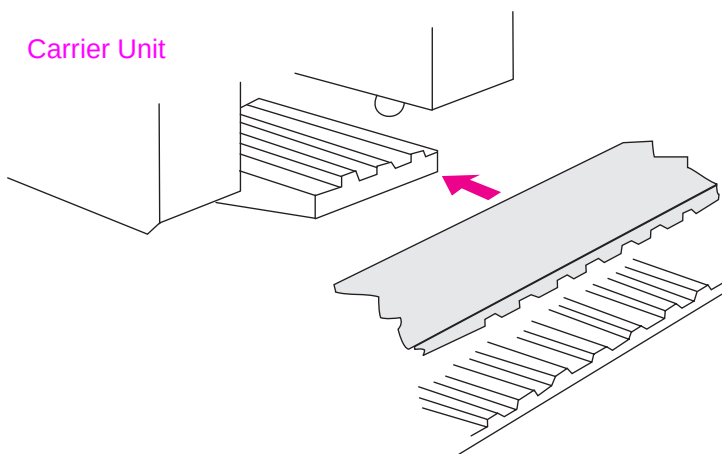


Figure 6-252 **Carrier Belt**

- 3** Slide the belt off the Carrier Unit.

CAUTION

Handle the Ribbon Cable with care. Always release the connector before you pull on the cable.

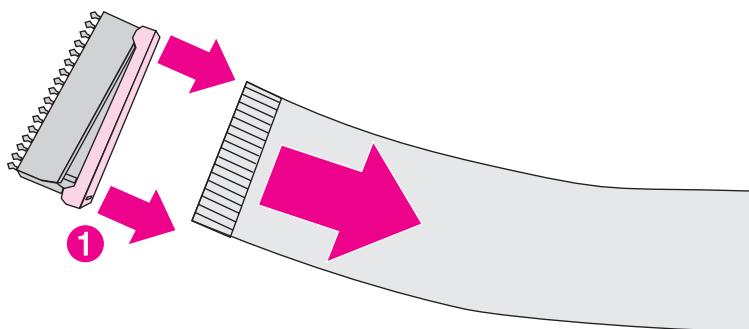


Figure 6-253 Unplugging the Ribbon Cable

- 4 To release the Ribbon Cable, use your fingernail to gently pull up each end of the connector (callout 1). Unplug the ribbon cable. Note the orientation of the contacts on the cable so the cable is not twisted.

CAUTION

During reassembly, when you insert the Carrier Shaft, be careful not to dislocate the Felt Pad in the Carrier Frame. See page 501.

- 5 Remove the Carrier Unit.

Note

The replacement Carrier Unit includes a Lamp, Dust Cover, and pre-lubricated Felt Pad. A ribbon cable is not included.

CAUTION

If the brass bushing comes off the rail, be sure to replace it so that the rail fits into the bushing's groove, and the bushing does not sit on top of the rail. If the bushing sits on top of the rail, it can block the Carrier Unit.

Felt Pad

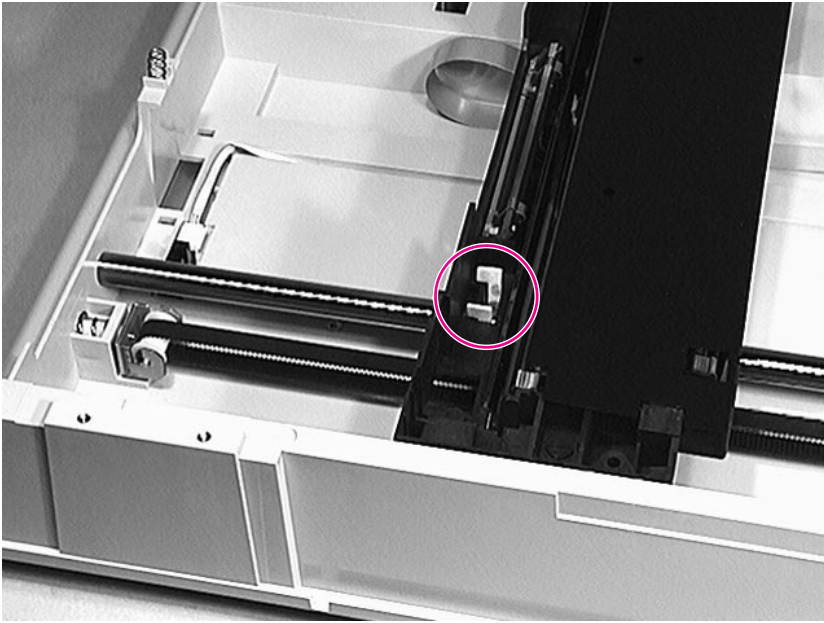


Figure 6-254 Felt Pad

- 1 Remove the Carrier Unit Lamp.
- 2 Insert the Felt Pad as shown.

Feet

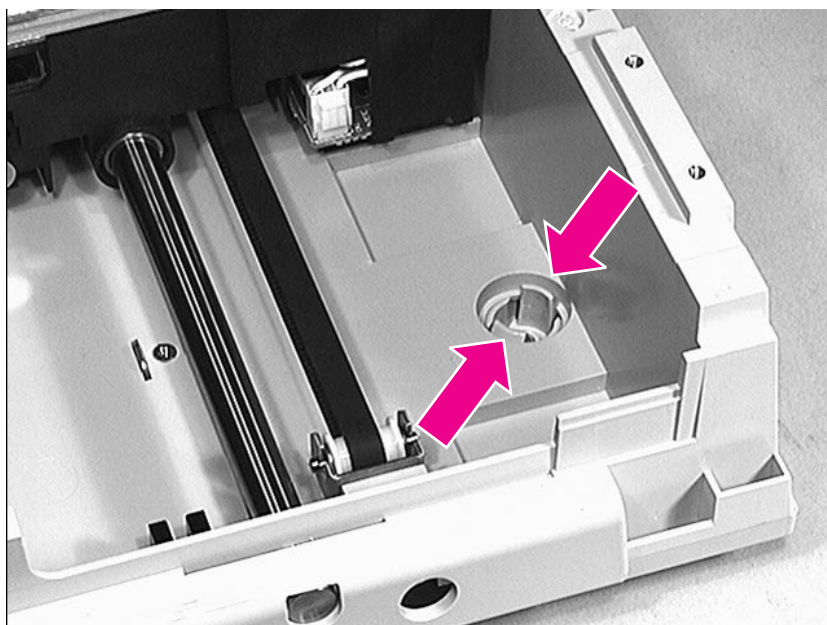


Figure 6-255 Feet

Pinch the tabs to remove the foot.

Frame Ground Spring

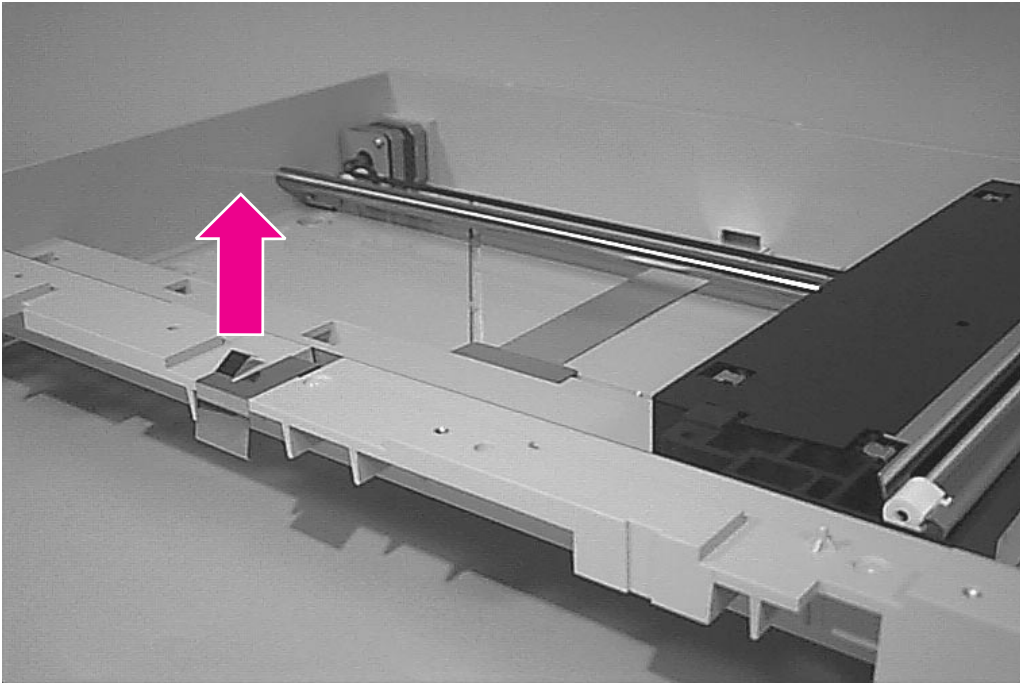


Figure 6-256 Frame Ground Spring

- 1 Lift out the Frame Ground Spring.

To replace

Align the spring and the grounding plate.

CAUTION

Do not forget to replace the Frame Ground Spring when you reassemble the HP Digital Copy 320.

Front Lamp PCA

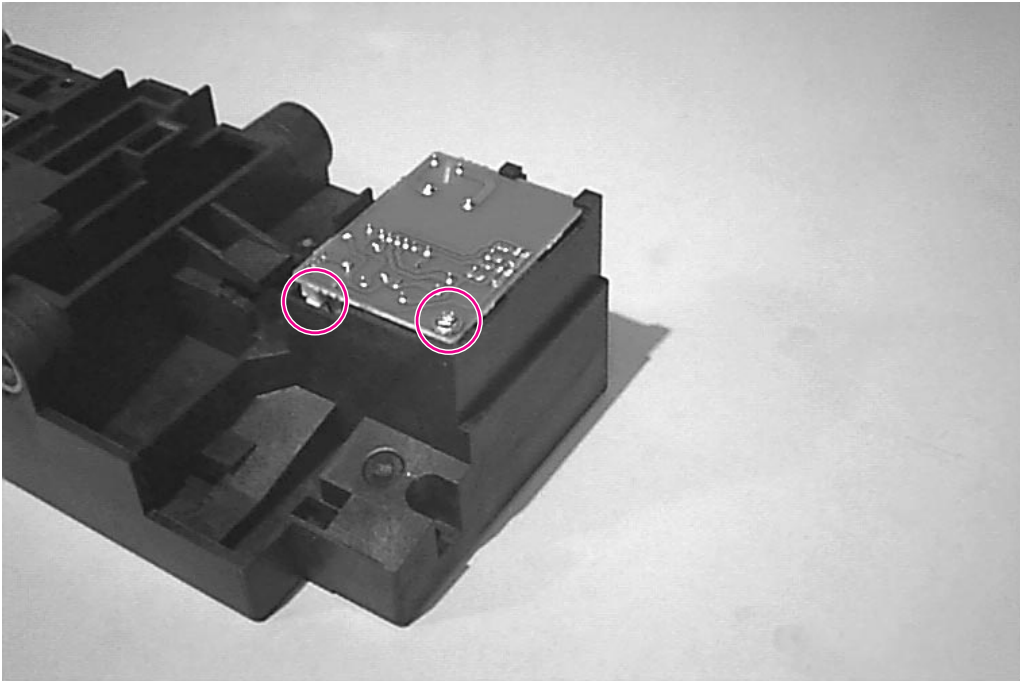


Figure 6-257 Front Lamp PCA

- 1 Remove the Carrier Unit. The Front Lamp PCA is located on the underside of the Carrier Unit.
- 2 Unplug 1 connector.
- 3 Remove 1 TP screw (m3x8).

Junction PCA and Cover

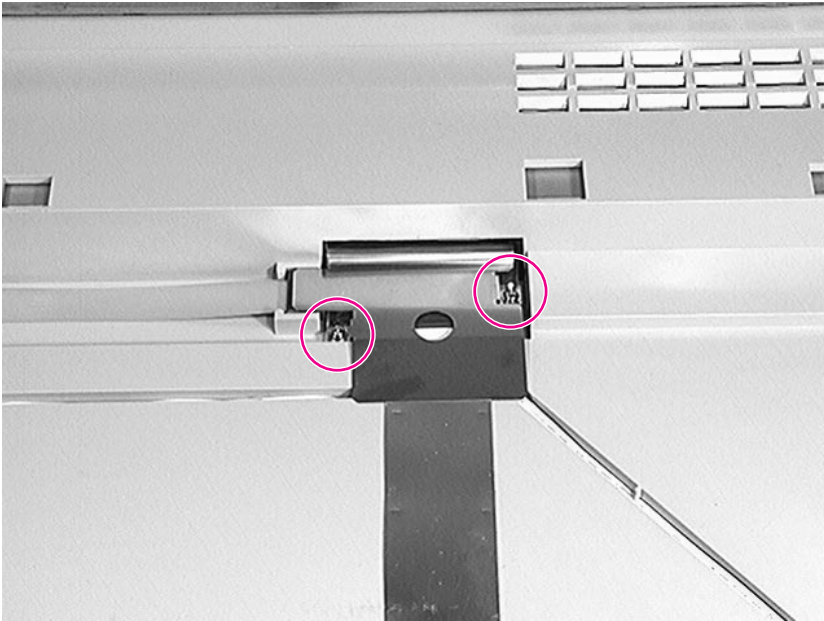


Figure 6-258 Junction PCA Cover

- 1 Remove 2 TP screws (m3x8).
- 2 Remove the Junction PCA Cover.

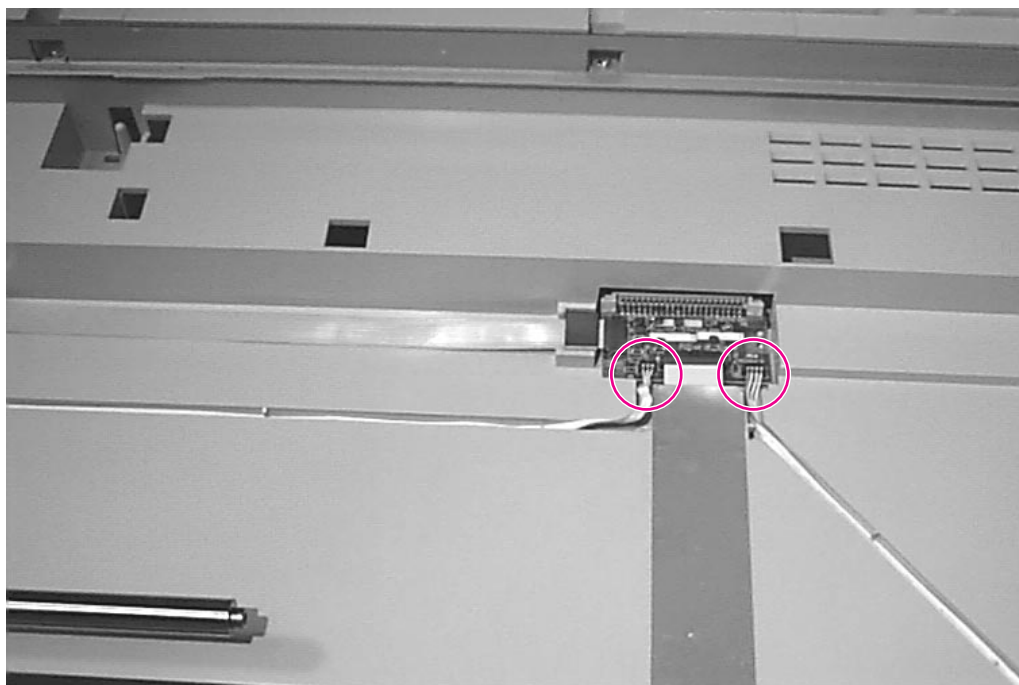


Figure 6-259 Junction PCA

3 Unplug 2 connectors.

Note

For replacement, note the routing of the cables.

Front Panel Ribbon Cable

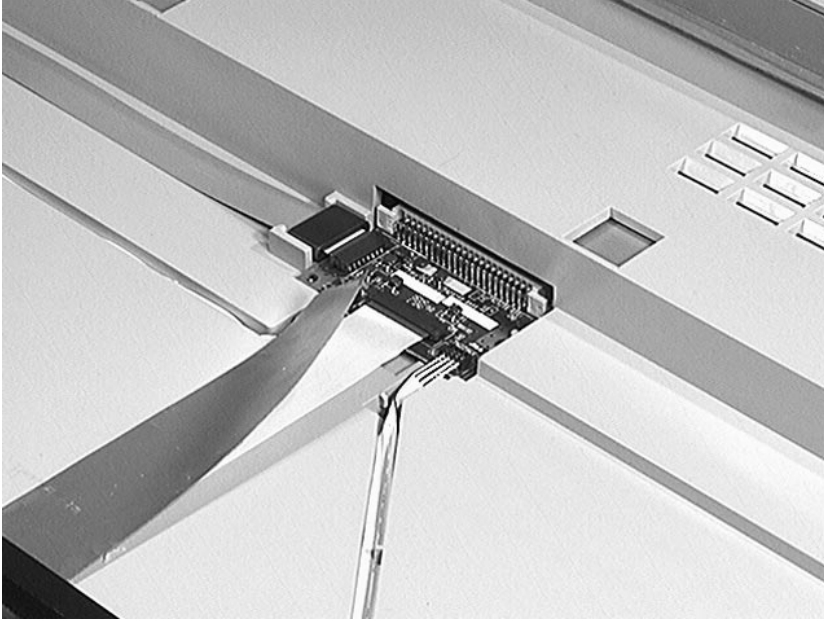


Figure 6-260 Front Panel Ribbon Cable

CAUTION

Do not bend the metal Front Panel Cable Cover.

- 1 Gently peel off one side of the Front Panel Cable Cover.

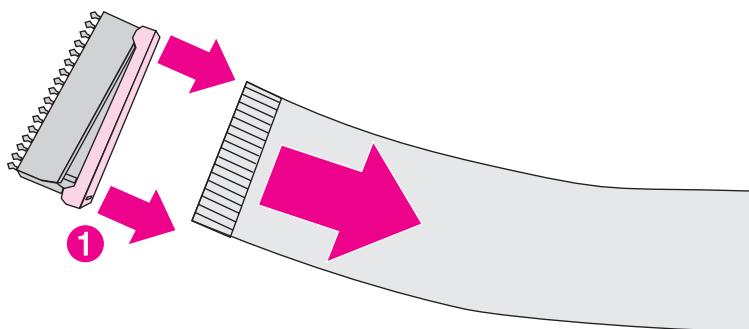


Figure 6-261 Unplugging the Ribbon Cable

- 2 Remove the Front Panel Cable Clamp and Front Panel Frame Ground Plate (figure 6-210 on page 456).
- 3 To release the Ribbon Cable, use your fingernail to gently pull up each end of the connector (callout 1). Unplug the ribbon cable. Note the orientation of the contacts on the cable so the cable is not twisted.

To replace

CAUTION

You must remove the Front Panel Cable Clamp and Front Panel Frame Ground Plate in order to replace the cable. The cable will be crushed if you place it over the top of the clear cover.

- 1 Remove the Front Panel Cable Clamp and Front Panel Frame Ground Plate.
- 2 Replace the Ribbon Cable and the Front Panel Cable Clamp and Front Panel Frame Ground Plate.
- 3 Make sure the Front Panel Cable Clamp lies as flat as possible, allowing the Carrier Unit to pass over without touching the clear part.

Carrier Belt and Motor

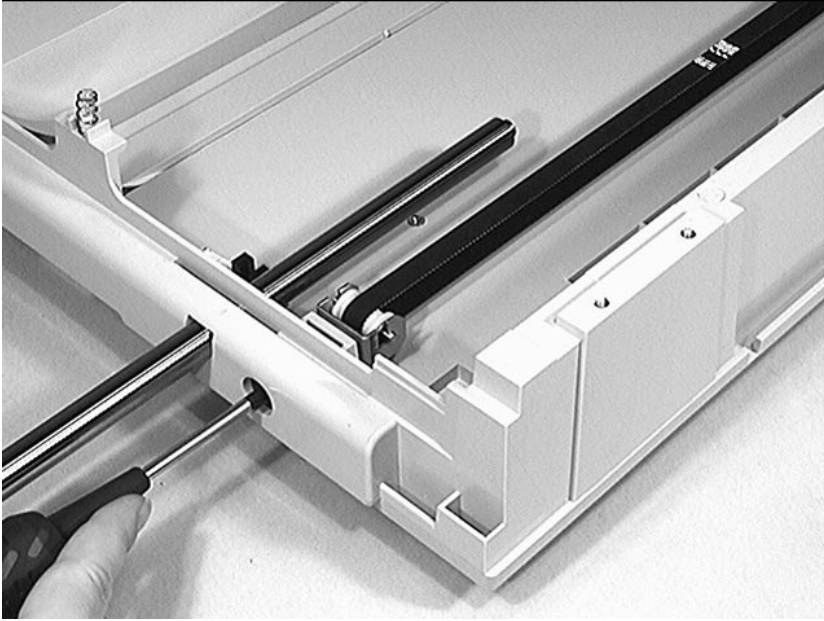


Figure 6-262 Carrier Belt and Motor (1 of 2)

- 1 Remove 1 machine screw with washer (m3x35) to release the pulley shaft and pulley spring.
- 2 Remove the Carrier Belt from the pulley.

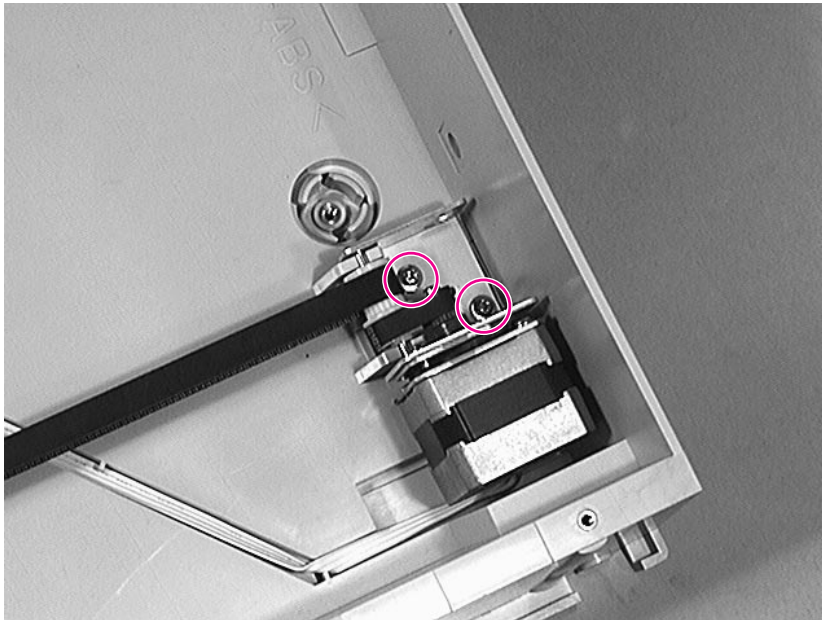


Figure 6-263 Carrier Belt and Motor (2 of 2)

CAUTION

Do not disassemble the Carrier Motor Assembly.

- 3 Remove 2 TP screws (m3x6) from the bracket by the motor.
- 4 Lift the motor and unplug 1 connector from underneath the motor.

Note

The replacement Flatbed Motor Unit includes a replacement motor, a short belt, and a long belt. The cable, pulley shaft, and spring are ordered separately.

To replace

- 1 Reverse the above procedure.
- 2 To adjust the tension of the Carrier Belt, tighten or loosen the screw shown in Figure 6-262.