



LASERJET ENTERPRISE 500 COLOR MFP

Repair Manual



M575



HP LaserJet Enterprise 500 color MFP M575 Printers

Repair Manual

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Conventions used in this guide

 **TIP:** Tips provide helpful hints or shortcuts.

 **NOTE:** Notes provide important information to explain a concept or to complete a task.

 **CAUTION:** Cautions indicate procedures that you should follow to avoid losing data or damaging the product.


 **WARNING!** Warnings alert you to specific procedures that you should follow to avoid personal injury, catastrophic loss of data, or extensive damage to the product.

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1 Removal and replacement

 **NOTE:** Your product might not appear exactly as the one shown in the photos in this chapter. Although some photos do not show the ADF/scanner unit, the procedures in this chapter are appropriate for your product.

- [Introduction](#)
- [Removal and replacement strategy](#)
- [Service approach](#)
- [Removal and replacement procedures](#)

Introduction

This chapter describes the removal and replacement of field-replaceable units (FRUs) only.

Replacing FRUs is generally the reverse of removal. Occasionally, notes and tips are included to provide directions for difficult or critical replacement procedures.

HP does *not* support repairing individual subassemblies or troubleshooting to the component level.

Note the length, diameter, color, type, and location of each screw. Be sure to return each screw to its original location during reassembly.

Incorrectly routed or loose wire harnesses can interfere with other internal components and can become damaged or broken. Frayed or pinched harness wires can be difficult to find. When replacing wire harnesses, always use the provided wire loops, lance points, or wire-harness guides and retainers.


Removal and replacement strategy

General cautions during removal and replacement

This chapter describes the removal and replacement of field-replaceable units (FRUs) only.


Replacing FRUs is generally the reverse of removal. Occasionally, notes and tips are included to provide directions for difficult or critical replacement procedures.

HP does *not* support repairing individual subassemblies or troubleshooting to the component level.


 **WARNING!** Turn the product off, wait 5 seconds, and then remove the power cable before attempting to service the product. If this warning is not followed, severe injury can result, in addition to damage to the product. The power must be on for certain functional checks during troubleshooting. However, disconnect the power supply during parts removal.

Never operate or service the product with the protective cover removed from the laser scanner assembly. The reflected beam, although invisible, can damage your eyes.


The sheet-metal parts can have sharp edges. Be careful when handling sheet-metal parts.

 **CAUTION:** Do not bend or fold the flat flexible cables (FFCs) during removal or installation. Also, do not straighten prefolds in the FFCs. You *must* fully seat all FFCs in their connectors. Failure to fully seat an FFC into a connector can cause a short circuit in a PCA.



Incorrectly routed or loose wire harnesses can interfere with other internal components and can become damaged or broken. Frayed or pinched harness wires can be difficult to find. When replacing wire harnesses, always use the provided wire loops, lance points, or wire-harness guides and retainers.

 **NOTE:** To install a self-tapping screw, first turn it counterclockwise to align it with the thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw-hole becomes stripped, repair the screw-hole or replace the affected assembly.

Note the length, diameter, color, type, and location of each screw. Be sure to return each screw to its original location during reassembly.

 **TIP:** For clarity, some photos in this chapter might show components removed that would not be removed to service the product. If necessary, remove the components listed at the beginning of a procedure before proceeding to service the product.

Electrostatic discharge

 **CAUTION:**  Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing product parts. Always perform service work at an ESD-protected workstation or mat, or use an ESD strap. If an ESD workstation, mat, or strap is not available, ground yourself by touching the sheet-metal chassis *before* touching an ESD-sensitive part.

Protect the ESD-sensitive parts by placing them in ESD pouches when they are out of the product.

Required tools

- #1 Phillips screwdriver with a magnetic tip and a 152-mm (6-inch) shaft length
- #2 Phillips screwdriver with a magnetic tip and a 152-mm (6-inch) shaft length
- Small flat blade screwdriver
- Needle-nose pliers
- ESD mat or ESD strap (if one is available)
- Penlight (optional)


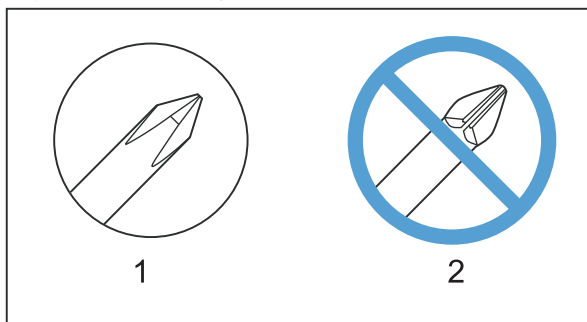
 **CAUTION:** Always use a Phillips screwdriver (callout 1). Do not use a Pozidriv® screwdriver (callout 2) or any motorized screwdriver. These can damage screws or screw threads.

Figure 1-1 Phillips and Pozidriv screwdriver comparison



Types of screws




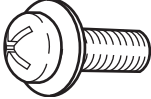
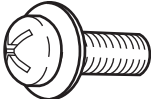
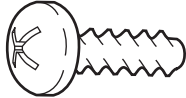
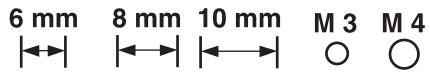
 **NOTE:** The illustration in this section are for reference only. The screws in your product might look slightly different.

Illustration	Description	Size	Part number	Use
--------------	-------------	------	-------------	-----

	Screw with washer	M3X6	XB2-7300-000CN	Used to secure metal components to metal components (for example, a ground wire to the frame)
	Screw, tapping	M3X6	XA9-1503-000CN	
	Screw	D-M3X6	XA9-1671-000CN	
	Screw	P-M3X8	XB4-5300-807CN	
	Screw, tapping, truss head	M4X10	XB4-7401-005CN	Used to secure anything to plastic



Service approach

Product repair normally begins by using the product internal diagnostics and the following two-step process:

1. Isolate the problem to the major system (for example, the network or server, or the product).
2. Troubleshoot the problem by using the procedures in the solve problems chapter.

After you find a faulty part, the product can usually be repaired at the assembly level by replacing field-replaceable units (FRUs). Some mechanical assemblies might need to be repaired at the subassembly level.

Before performing service

- Remove all media from the product.
- Turn off the power using the power switch.
- Unplug the power cable and interface cable or cables.
- Place the product on an ESD workstation or mat, or use an ESD strap (if one is available). If an ESD workstation, mat, or strap is not available, ground yourself by touching the sheet-metal chassis *before* touching an ESD-sensitive part.
- Remove the toner cartridges. See [Toner cartridges on page 11](#).
- Remove the tray or trays. See [Tray 2 and 3 on page 23](#).

After performing service

- Plug in the power cable.
- Reinstall the toner cartridges.
- Reinstall the tray or trays.
- If the optional paper feeder was installed, place the product on the feeder.



NOTE: Your product might not appear exactly as the one shown in the photos in this chapter. Although some photos do not show the ADF/scanner unit, the procedures in this chapter are appropriate for your product.

Post-service test

Perform the following test to verify that the repair or replacement was successful.



NOTE: Your product might not appear exactly as the one shown in the photos in this chapter. Although some photos do not show the ADF/scanner unit, the procedures in this chapter are appropriate for your product.

Print-quality test

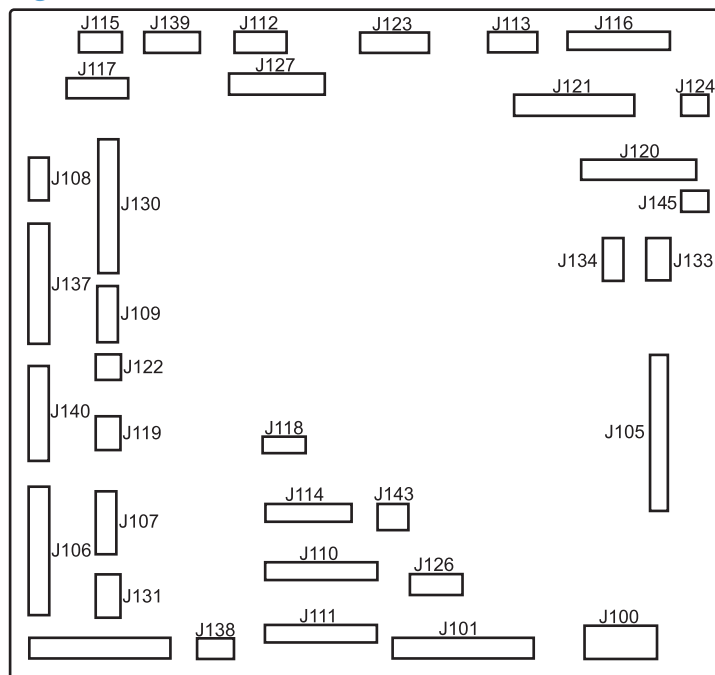
1. Verify that you have completed the necessary reassembly steps.
2. Make sure that the tray contains clean, unmarked paper.
3. Attach the power cord and interface cable or interface cables, and then turn on the product.
4. Verify that the expected startup sounds occur.
5. Print a configuration page, and then verify that the expected printing sounds occur.
6. Print a demo page, and then verify that the print quality is as expected.
7. Send a print job from the host computer, and then verify that the output meets expectations.
8. If necessary, restore any customer-specified settings.
9. Clean the outside of the product with a damp cloth.

Copy-quality test

1. Verify that you have completed the necessary reassembly steps.
2. Ensure that the input tray contains clean, unmarked paper.
3. Attach the power cord, and then turn on the product.
4. Verify that the expected start-up sounds occur.
5. Print a configuration page, and then verify that the expected printing sounds occur.
6. Place the configuration page in the ADF.
7. Print a copy job, and then verify the results.
8. Place the configuration page on the scanner glass.
9. Print a copy job, and then verify the results.
10. Clean the outside of the product with a damp cloth.

DC controller PCA

Figure 1-2 DC controller PCA



J100: 24 v from low-voltage power supply (LVPS) and interlock	J114: HVPS lower	J126: memory tag connector
J101: LVPS	J115: fuser sensors	J127: pre-exposure LEDs (rear), SR17, SL1
J105: interconnect board (ICB)	J116: HVPS upper	J130: registration density (RD) sensors (front and rear)
J106: 500-sheet feeder, developing home position, laser motors	J117: fuser motor	J131: pickup motor
J107: duplex sensor, tray 1 solenoid, paper present sensor	J118: 5 v interlock	J133: not used
J108: environmental sensor	J119: LVPS fan	J134: not used
J109: duplex clutch, overhead transparency (OHT) in, top-of-page sensor	J120: drum motor 1 and drum motor 2	J137: toner collection unit (TCU) full, TCU motor, toner level detection
J110: YM laser	J121: drum motor 3, drum position 1,2,3	J138: 24 v to HVPS lower
J111: CK laser	J122: OHT out	J139: fuser sensors
J112: pre-exposure LEDs (front)	J123: pressure release, bin full, fuser delivery	J140: lift motor, tray present, stack surface
J113: 24 v to high-voltage power supply (HVPS) upper	J124: 24 v to scanner	J143: 24 v present from LVPS
		J145: 24v to stapler

Parts removal order

Figure 1-3 Parts removal order (CSRs and external covers) (1 of 3)

Assembly	Remove	Remove	Remove	Remove	Remove	Remove	Remove	Remove	Remove
Toner cartridges									
Stapler cartridge									
Duplex reverse guide									
Toner collection unit (TCU)									
Formatter									
Hard drive (HDD)	Formatter								
Fax PCA and cable	Formatter								
Tray 2-3 cassettes									
Fuser									
Tray 1 pickup roller	Roller cover								
Tray 2 pickup and separation rollers	Tray 2								
Tray 3 pickup, feed, and separation rollers	Tray 3								
Secondary transfer rollers									
Secondary transfer assembly (T2)									
Intermediate transfer belt (ITB)									
Front-door assembly									
ADF separation pad and ADF separation pad spring									
Control panel									
USB cover									
HIP cover									
Front-upper cover									
Stapler cover									
Right-door assembly									
Right-rear cover									
Left cover	Formatter								
Rear-upper cover									
Left-upper cover	Rear-upper cover								
Rear cover	Right-rear cover	Left cover	Rear-upper cover						
Right-front cover	Front-upper cover								
ADF whole unit	Rear-upper cover								
SCB	Rear-upper cover								
Image scanner whole unit	Stapler cover	Rear-upper cover	Left-upper cover	Document feeder	SCB				
Delivery cover	Stapler cover	Front-upper cover	Rear-upper cover	Left-upper cover	Document feeder	SCB	Scanner	Upper-right cover	
Right-top cover	Stapler cover	Rear-upper cover	Left-upper cover	Document feeder	SCB	Scanner			
Upper-right cover	Stapler cover	Rear-upper cover	Left-upper cover	Document feeder	SCB	Scanner			
Front-top cover	Stapler cover	Rear-upper cover	Left-upper cover	Front-upper cover	Left cover	Document feeder	SCB	Scanner	
Rear-top cover	Stapler cover	Rear-upper cover	Left-upper cover	Rear cover	Document feeder	SCB	Scanner	Delivery cover	Front top cover

Figure 1-4 Parts removal order (ADF/scanner assemblies) (2 of 3)


Assembly	Remove	Remove
ADF front cover		
ADF rear cover		
Mylar		
Foam reflector		
ADF tray extender		
ADF PCA	ADF rear cover	
ADF jam-access cover		
Roller door	ADF jam-access cover	
Stoppers	ADF jam-access cover	
ADF handle	ADF jam-access cover	
Photosensor	ADF jam-access cover	
ADF tray cover		
Legal flag and sensor	ADF tray cover	
ADF paper guides	ADF tray cover	
Assy hinge	Rear-upper cover	ADF whole unit
ADF pick success sensor assy	Rear-upper cover	ADF whole unit

Figure 1-5 Parts removal order (Internal assemblies) (3 of 3)


Assembly	Remove	Remove	Remove	Remove	Remove	Remove	Remove	Remove	Remove
Stapler assembly	Stapler cover								
Interconnect board (ICB)	TCU	Formatter	Right-rear cover	Left cover	Rear-upper cover	Rear cover			
DC controller (DCC) and tray (optional)	TCU	Formatter	Right-rear cover	Left cover	Rear-upper cover	Rear cover	ICB	LVPS (if removing tray)	
LVPS	TCU	Formatter	Right-rear cover	Left cover	Rear-upper cover	Rear cover	ICB		
Delivery fan, cartridge fan, and environmental sensor	TCU	Left cover							
Toner collection sensor	TCU	Left cover							
Residual-toner feed motor	TCU	ITB	Left cover						
Registration density (RD) sensor	T2	ITB							
Power supply (PS) fan and fan duct	TCU	Right-rear cover	Left cover	Rear-upper cover	Rear cover				
Registration assembly	TCU	T2	ITB	Right-rear cover	Left cover	Rear-upper cover	Rear cover	RD sensor	PS fan and duct
High-voltage power supply (HVPS) lower	TCU Formatter Right-rear cover	ICB	LVPS						
Developing-disengagement motor		ICB	LVPS	HVPS-lower					
Pickup motor		ICB	LVPS	HVPS-lower					
Lifter-drive assembly		ICB	LVPS	HVPS-lower					
Cassette pickup drive assembly		Left cover	ICB	LVPS	HVPS-lower				
Laser scanner (Y/M)		Rear-upper cover	ICB	LVPS	HVPS-lower				
Laser scanner (C/Bk)		Rear cover	ICB	LVPS	HVPS-lower	Lifter-drive	Laser scanner (Y/M)		
Cassette pickup assembly		ICB	LVPS	Registration assembly	HVPS-lower	Cassette-pickup drive assembly			
High-voltage power supply (HVPS) upper	TCU Formatter Right-rear cover	Rear-upper cover Rear cover	ICB DCC LVPS						
Drum motors 1, 2, or 3	Right-rear cover Left cover			HVPS-upper					
Fuser motor				HVPS-upper					
Main-drive assembly	TCU Formatter Fuser T2 ITB	Right-rear cover Left cover Rear-upper cover Rear cover	ICB DCC and tray PS fan and duct LVPS HVPS lower and upper						
Fuser-drive assembly			Document feeder SCB Scanner	Main drive					
Delivery assembly	TCU Formatter Fuser T2 ITB Front-upper cover Right-rear cover	Left cover Stapler cover Rear-upper cover Left-upper cover Rear cover	Front-top cover Rear-top cover PS fan and duct ICB	Main drive	Fuser drive				
Duplex-drive assembly			DCC and tray LVPS HVPS lower and upper	Main drive	Fuser drive	Delivery assembly			

Removal and replacement procedures

Customer self repair (CSR) components

 **NOTE:** Your product might not appear exactly as the one shown in the photos in this chapter. Although some photos do not show the ADF/scanner unit, the procedures in this chapter are appropriate for your product.

Toner cartridges

 **CAUTION:** If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. *Hot water sets toner into fabric.*

1. Open the front door. Make sure that the door is completely open.

Figure 1-6 Remove the toner cartridge (1 of 2)

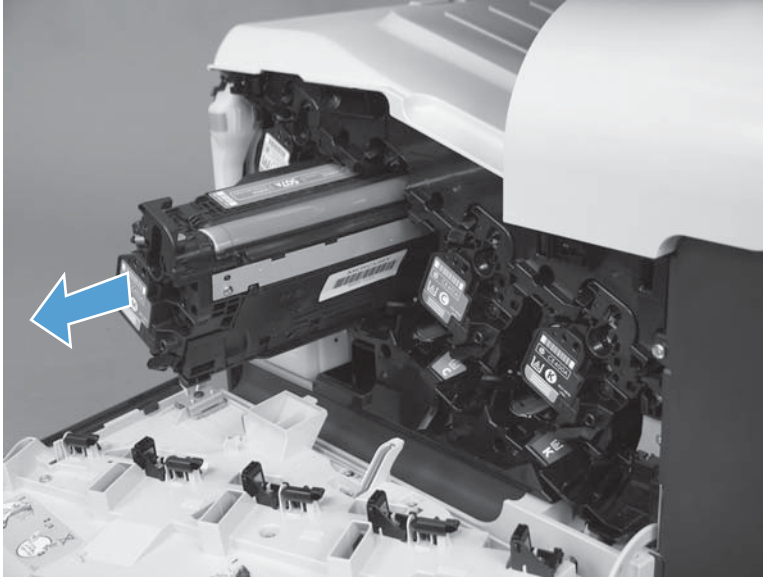


2. Grasp the toner-cartridge handle and pull out to remove.

⚠ CAUTION: Do not touch the green roller. Doing so can damage the cartridge. Do not expose the cartridge to strong light. Cover the cartridge with a sheet of paper to protect it from light.

💡 Reinstallation tip Align the toner cartridge with its slot and insert the toner cartridge until it clicks into place.

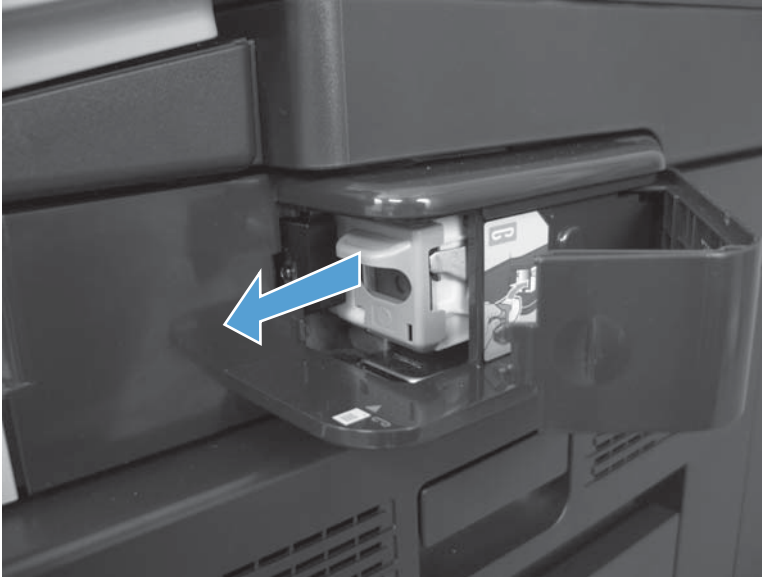
Figure 1-7 Remove the toner cartridge (2 of 2)



Staple cartridge

Open the stapler door, and then remove the staple cartridge.

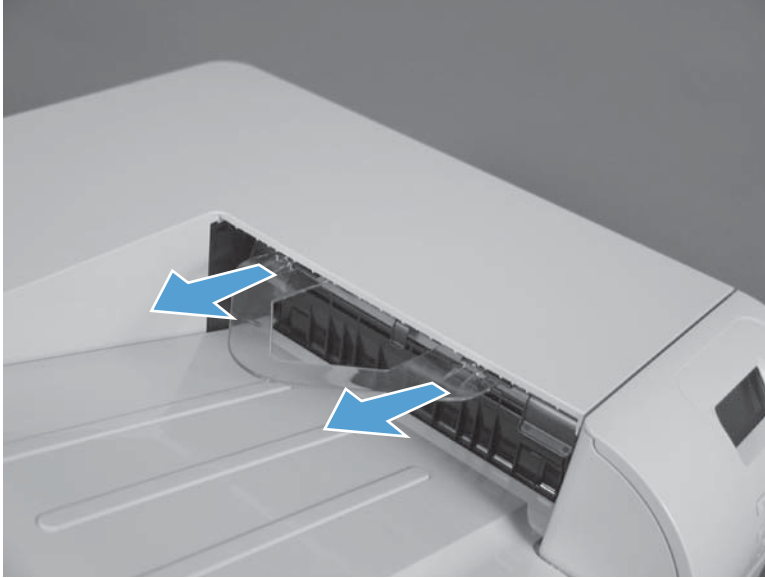
Figure 1-8 Remove the staple cartridge



Duplex-reverse guide

1. Grasp the duplex-reverse guide and pull it away from the product to release it.

Figure 1-9 Remove the duplex-reverse guide (1 of 2)




2. Remove the guide.

Figure 1-10 Remove the duplex-reverse guide (2 of 2)



Toner-collection unit

 **NOTE:** The toner-collection unit is designed for a single use. Do not try to empty the toner-collection unit and reuse it. Doing so could cause toner to spill inside the product and result in reduced print quality. For recycling information, see the product user guide.

1. Open the front door. Make sure that the door is completely open.

Figure 1-11 Remove the toner-collection unit (1 of 4)



2. Grasp the blue label at the top of the toner-collection unit and remove it from the product.


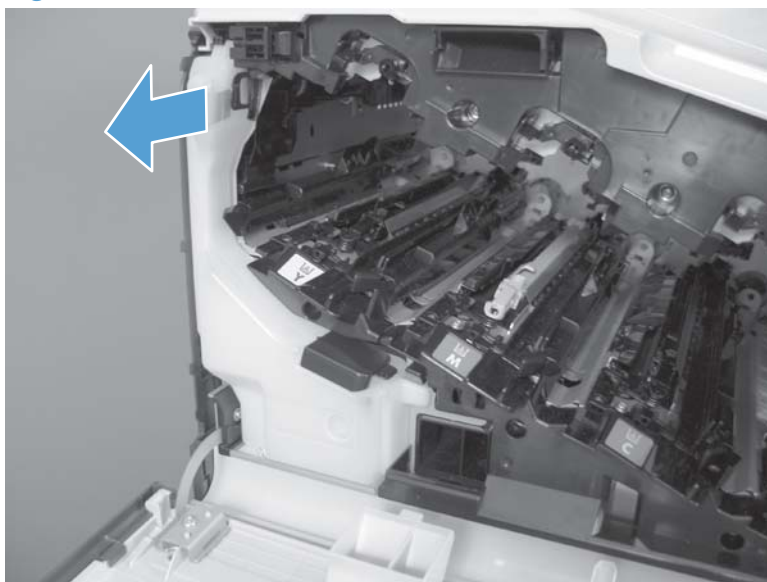
 **Reinstallation tip** Insert the bottom of the replacement unit into the product first and then push the top of the unit until it clicks into place. If the toner-collection unit is installed incorrectly, the front door will not close completely.

Figure 1-12 Remove the toner-collection unit (2 of 4)



3. To prevent toner spills, place the blue cap (callout 1) over the blue opening at the top of the unit (callout 2).

Figure 1-13 Remove the toner-collection unit (3 of 4)



Figure 1-14 Remove the toner-collection unit (4 of 4)

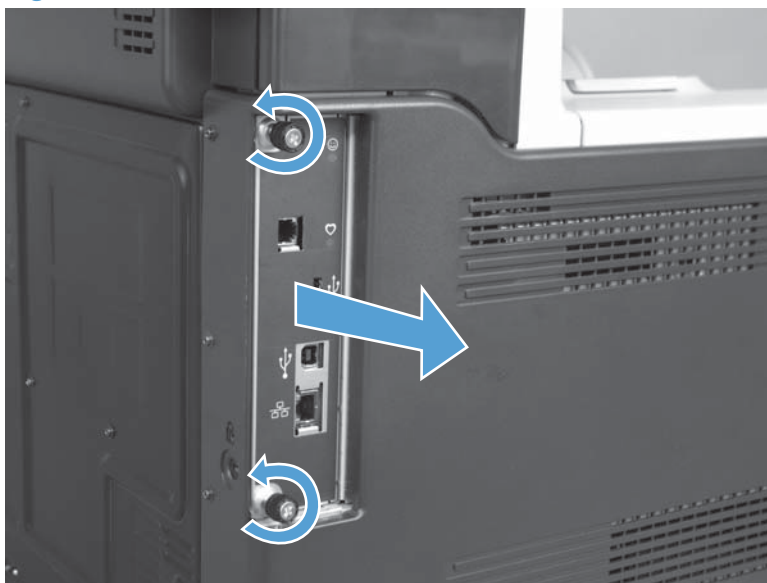



Formatter PCA

 **CAUTION:**  ESD sensitive component.

1. Turn the product off and disconnect the power and interface cable or interface cables.
2. Unscrew the formatter thumb screws, and then firmly pull the formatter from the product. Place the formatter on a clean, flat, grounded surface.

Figure 1-15 Remove the formatter



 **NOTE:** When reinstalling the formatter, push firmly on the right side to make sure the formatter is seated.

Fax PCA and cable

Before proceeding, remove the following components:

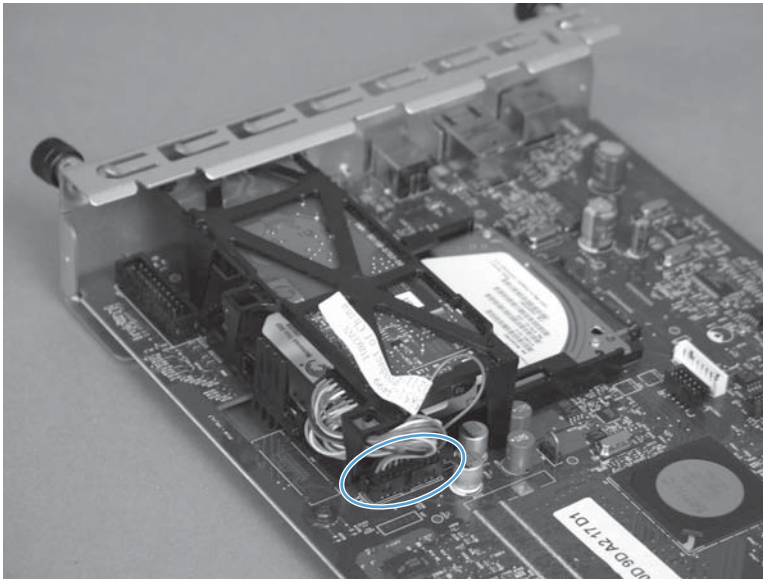
- Formatter PCA. See [Formatter PCA on page 17](#).

Remove the fax PCA and cable

CAUTION:  ESD sensitive component.

1. Disconnect one connector.

Figure 1-16 Remove the fax PCA and cable (1 of 2)



2. Release two tabs and the remove the fax PCA.


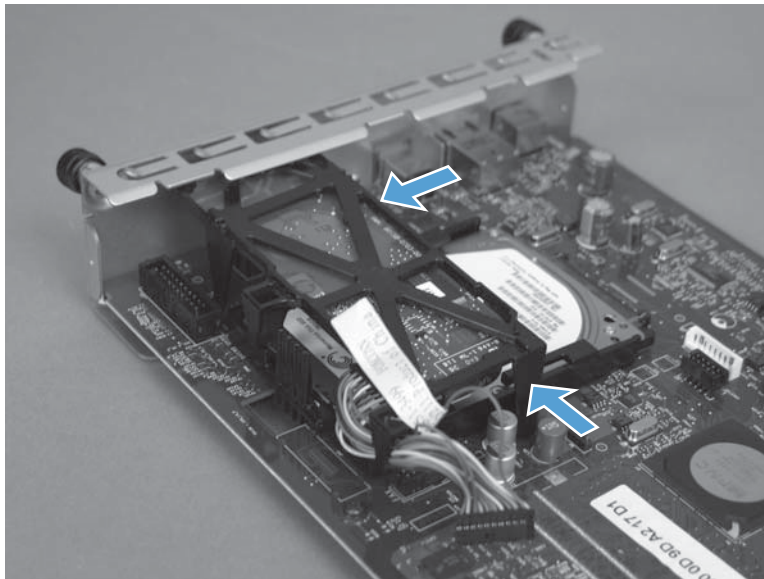

 **NOTE:** If necessary, disconnect the cable from the fax PCA.

Figure 1-17 Remove the fax PCA and cable (2 of 2)



Hard drive

 **NOTE:** The product has a hard disk drive (HDD) installed. If you install a replacement disk drive, you must reload the product firmware. See [Reload the firmware on page 22](#).

Before proceeding, remove the following components:

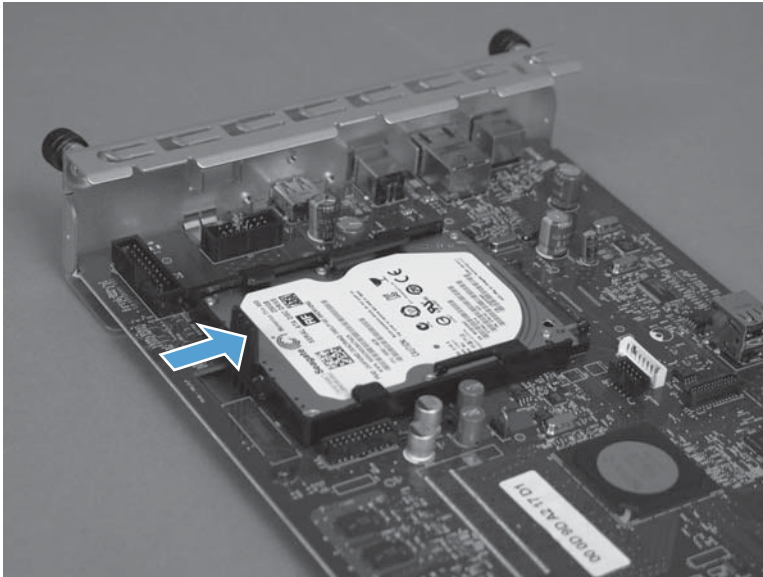
- Formatter PCA. See [Formatter PCA on page 17](#).
- Fax PCA and cable. See [Fax PCA and cable on page 18](#).

Remove the HDD

 **CAUTION:**  ESD sensitive component.

1. Place the formatter on a clean, flat, grounded surface.
2. Release the locking lever to release the HDD.

Figure 1-18 Remove the HDD (1 of 3)



3. Hold the locking lever in the release position, and then slide the HDD toward the edge of the formatter to remove it.


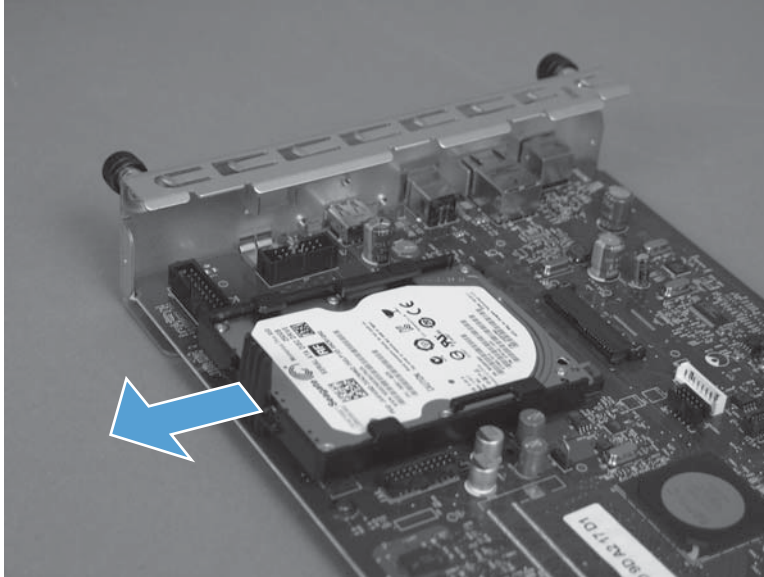
 **Reinstallation tip** When the HDD is reinstalled, make sure that the HDD is fully seated and that the locking lever snaps into the locked position.

Figure 1-19 Remove the HDD (2 of 3)



4. Separate the plastic side rails (callout 1) from the hard drive, and then slide (callout 2) the plastic cover from the hard drive.


 **CAUTION:** The plastic rails can be tight fitting. Remove carefully to avoid breaking.

Figure 1-20 Remove the HDD (3 of 3)




Install a replacement hard drive

After installing a replacement hard drive, you must reload the firmware by performing a firmware upgrade.


Reload the firmware

Update firmware


1. Copy the `xxxxxxxxx.bdl` file to a portable USB flash drive.
2. Turn the product on.
3. The HP logo displays on the product control panel. When an underscore displays below the HP logo, touch the logo to open the **Preboot** menu.
4. Touch the down arrow ▼ button to highlight **Administrator**, and then touch the **OK** button.


 **NOTE:** You might be prompted to enter a password to access the **Administrator** menu. Type the password, and then touch the **OK** button.

5. Touch the down arrow ▼ button to highlight **Download**, and then touch the **OK** button.
6. Insert the USB flash drive with the `xxxxxxxxx.bdl` file on it.

 **NOTE:** If the error message **No USB Thumbdrive Files Found** displays on the control-panel display, you might need to connect the storage device to the external USB connection on the formatter or try using a different portable storage device.


7. Touch the down arrow ▼ button to highlight **USB Thumbdrive**, and then touch the **OK** button.
8. Touch the down arrow ▼ button to highlight the `xxxxxxxxx.bdl` file, and then touch the **OK** button.

 **NOTE:** The upgrade process can take up to 10 minutes to complete.

 **TIP:** If there is more than one `xxxxxxxxx.bdl` file on the storage device, make sure that you select the correct file for this product.

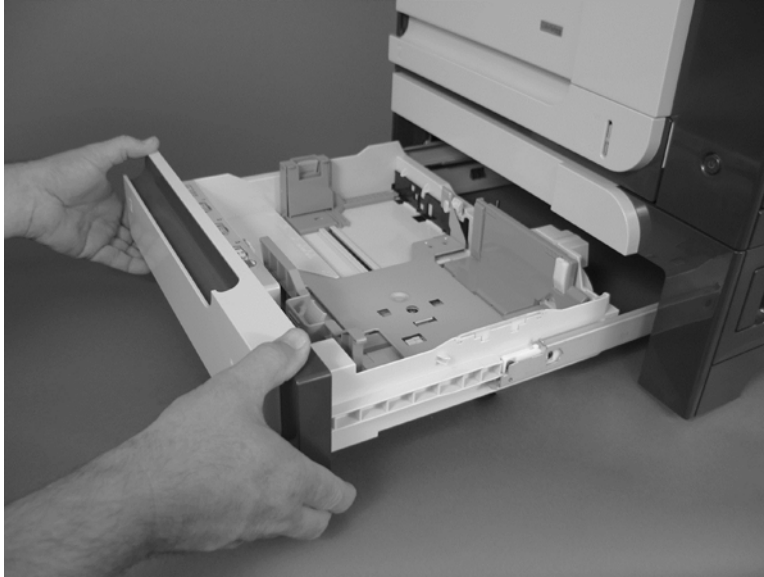
9. When the message **Complete** displays on the control-panel display, touch the back arrow ↩ button 3 times.
10. When the message **Continue** displays on the control-panel display, touch the **OK** button. The product will initialize.
11. When the upgrade process is complete, print a configuration page and verify that the upgrade firmware version was installed.

Tray 2 and 3

 **NOTE:** Use this procedure to remove the Tray 2 or optional Tray 3.

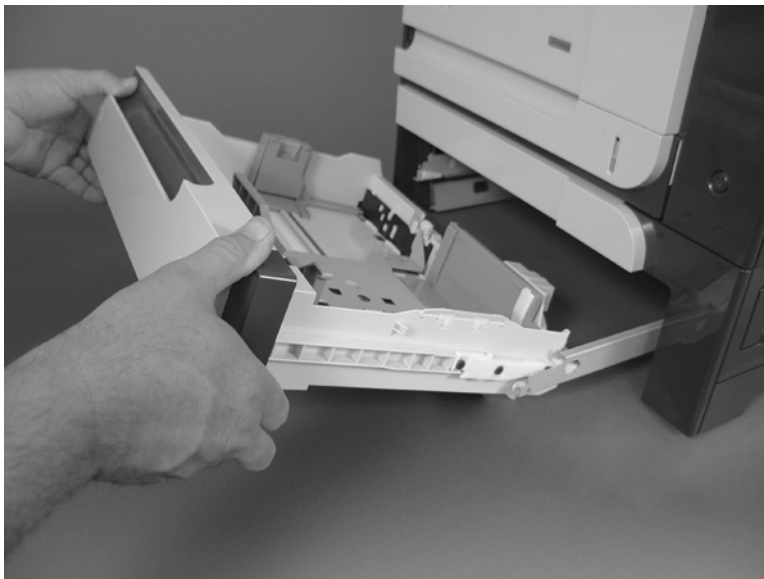
1. Pull the tray straight out of the product until it stops.

Figure 1-21 Remove Tray 2 and 3 (1 of 2)



2. Carefully lift up on the tray to release it, and then remove the tray.

Figure 1-22 Remove Tray 2 and 3 (2 of 2)

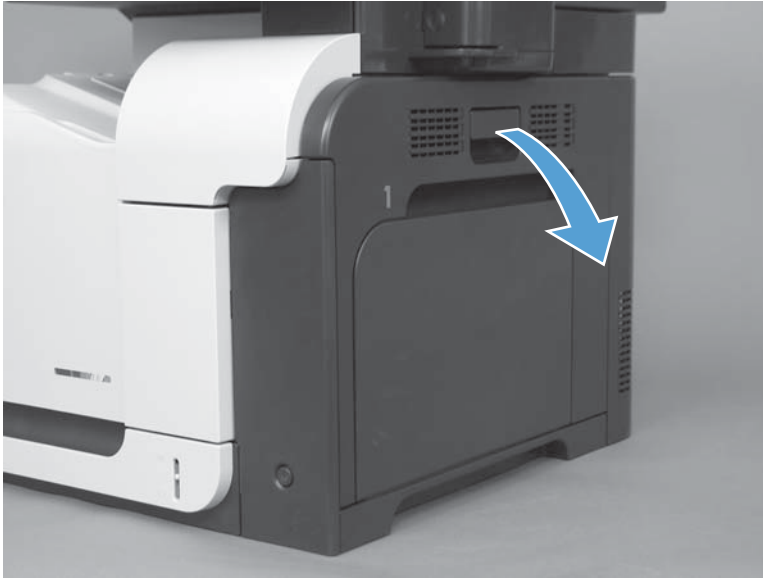


Fuser

CAUTION: The fuser might be hot. Be careful.

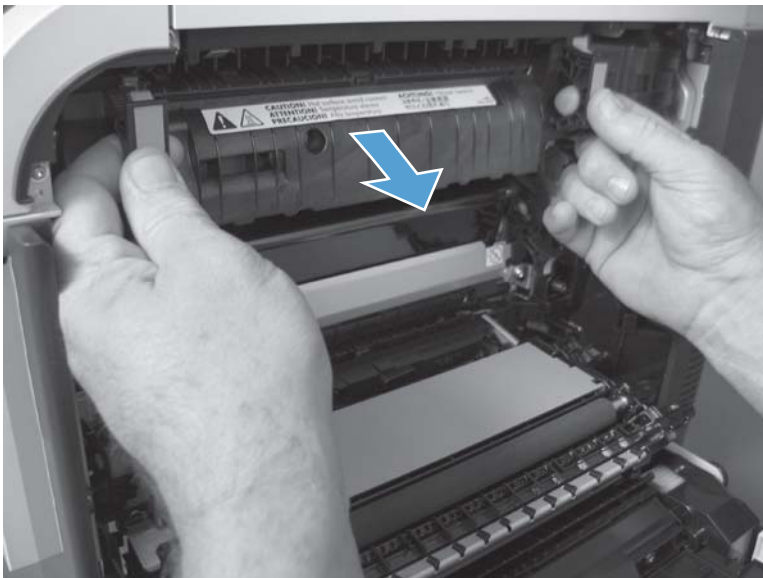
1. Open the right-door assembly.

Figure 1-23 Remove the fuser (1 of 2)



2. Grasp the handles and squeeze the blue release levers.
Pull the fuser straight out of the product to remove it.

Figure 1-24 Remove the fuser (2 of 2)



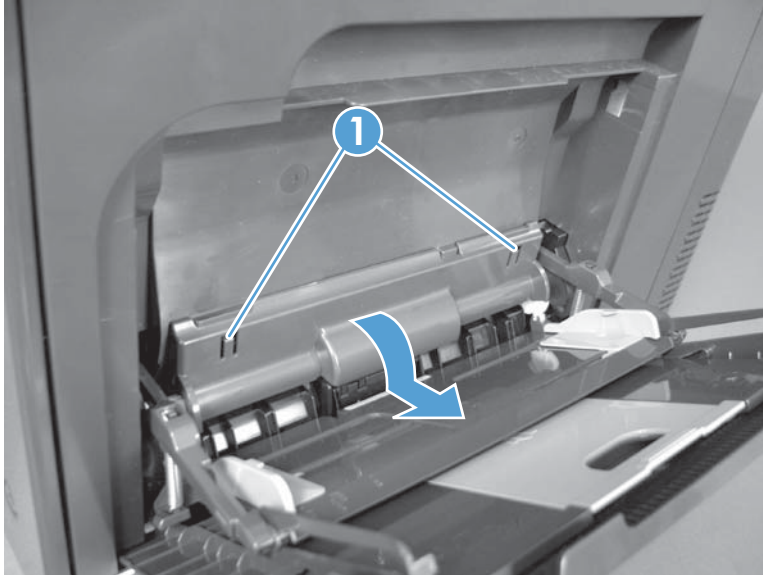
Pickup roller and separation pad (Tray 1)

⚠ CAUTION: Skin oils on the roller or pad can cause paper pickup problems. Wash your hands before removing the roller or pad.

1. Open Tray 1, release two tabs (callout 1), and then rotate the roller cover away from the product to remove it.

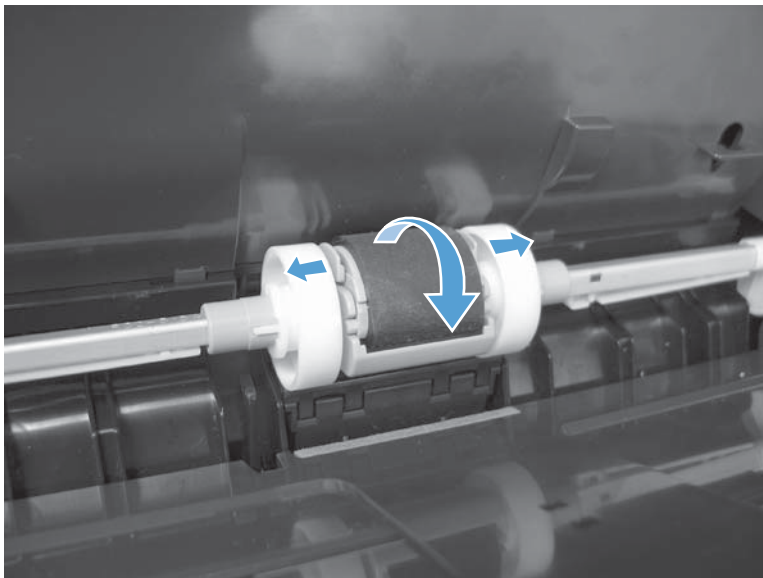
💡 TIP: Push down along the top edge of the cover to easily release the tabs.

Figure 1-25 Remove the pickup roller and separation pad (Tray 1) (1 of 4)



2. Release two tabs and rotate the roller body away from the product to remove it.

Figure 1-26 Remove the pickup roller and separation pad (Tray 1) (2 of 4)



3. Use a small flat blade screwdriver to release two tabs, and then remove the separation pad.


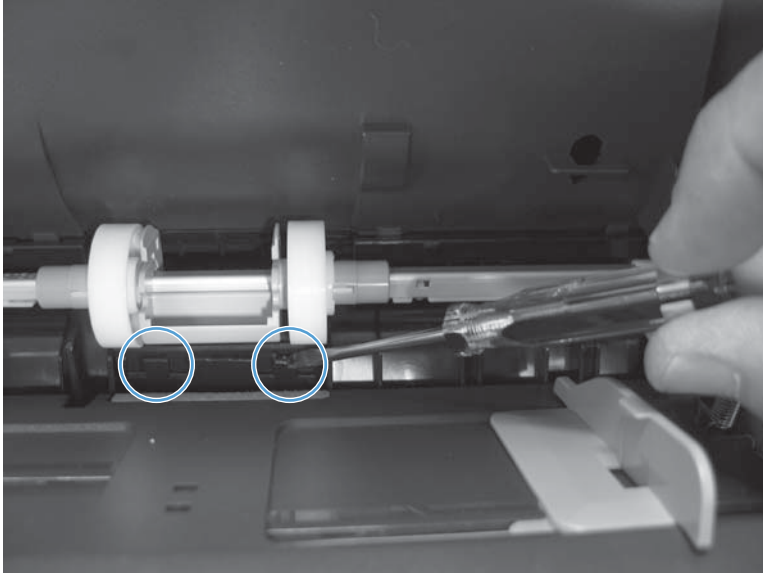
 **TIP:** You might need to slightly depress the spring-loaded separation pad pedestal to remove the pad.

Figure 1-27 Remove the pickup roller and separation pad (Tray 1) (3 of 4)



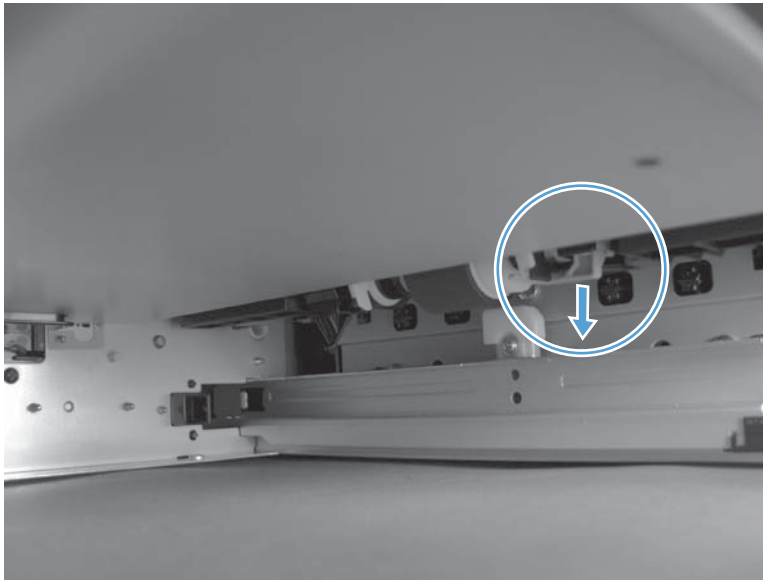
Pickup roller (Tray 2)

⚠ CAUTION: Skin oils on the roller can cause paper pickup problems. Wash your hands before removing the roller.

1. Look up into the Tray 2 cavity (where the tray would be installed), and pull down to release the blue roller-locking lever.

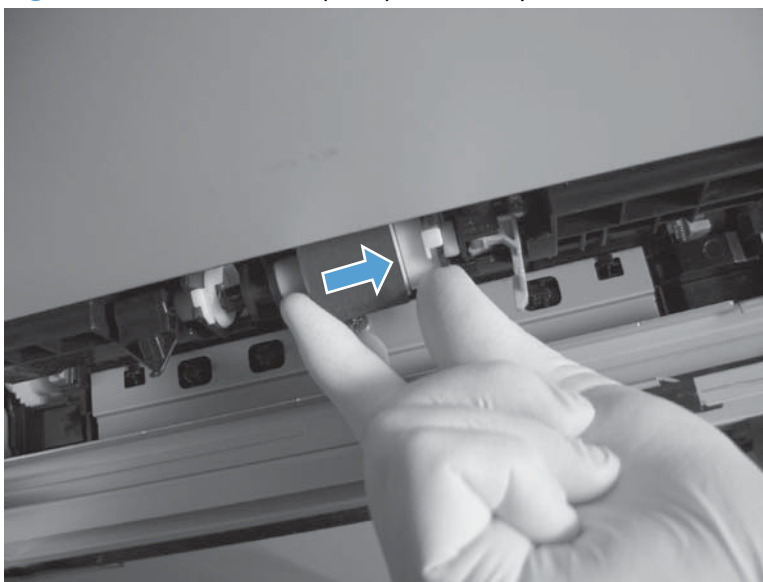
💡 Reinstallation tip When the roller is reinstalled, rotate the roller shaft several times to make sure that the shaft correctly engages the drive mechanism. You should hear a click when the shaft engages the drive mechanism.

Figure 1-28 Remove the pickup roller (Tray 2) (1 of 4)



2. Pull the roller toward the front of the product to release the rear of the roller shaft.

Figure 1-29 Remove the pickup roller (Tray 2) (2 of 4)



3. Rotate the roller shaft down and away from the product, and then slide the roller toward the rear of the product to release the front of the roller shaft.

Figure 1-30 Remove the pickup roller (Tray 2) (3 of 4)



4. Remove the pickup roller.


 **Reinstallation tip** Make sure that the roller is orientated correctly when it is reinstalled (the large white collar should be positioned toward the front of the product).

Figure 1-31 Remove the pickup roller (Tray 2) (4 of 4)



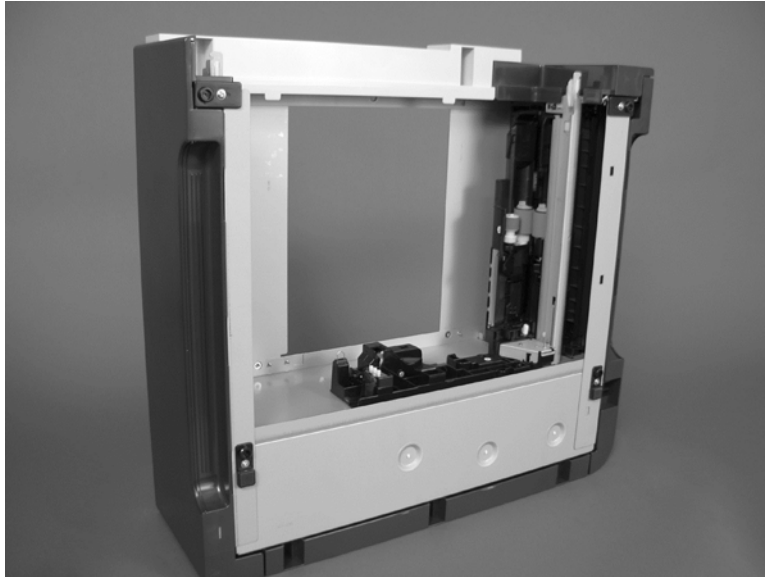
Pickup and feed rollers (Tray 3)

⚠ CAUTION: Skin oils on the roller can cause paper pickup problems. Wash your hands before removing the rollers.

1. Locate the Tray 3 pickup and feed rollers.

💡 TIP: The feeder is shown front side up in this procedure for clarity. You do not have to separate the product from the feeder to remove these rollers. Remove the tray, and then reach up into the cavity to remove the rollers.

Figure 1-32 Remove the Pickup and feed rollers (Tray 3) (1 of 2)



2. Release three tabs (callout 1), and then remove the rollers.


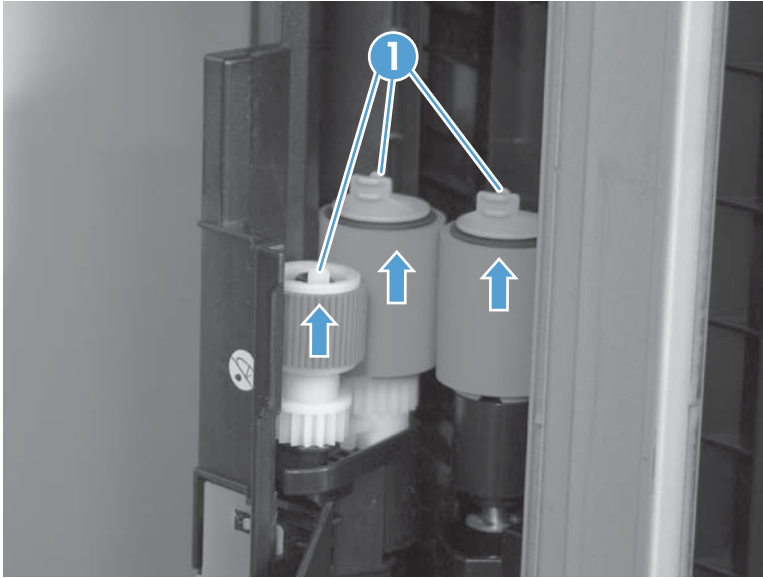
 **Reinstallation tip** When you reinstall the rollers, make sure that the rollers snap into place.

Figure 1-33 Remove the Pickup and feed rollers (Tray 3) (2 of 2)



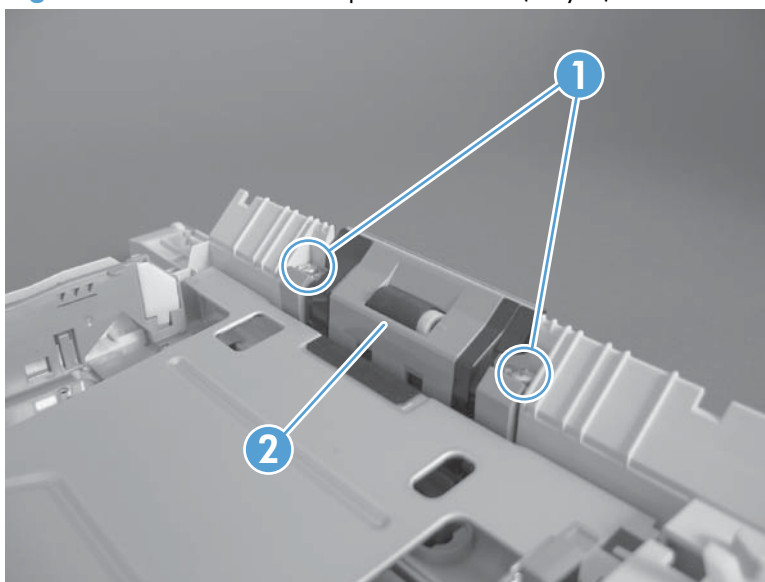
Separation roller (Tray 2)

⚠ CAUTION: Do not touch the spongy roller surface unless you are replacing the roller. Skin oils on the roller can cause paper pickup problems.

📝 NOTE: Remove the Tray 2 if not already removed for service. See [Tray 2 and 3 on page 23](#).

Remove two screws (callout 1), and then remove the separation roller assembly (callout 2).

Figure 1-34 Remove the separation roller (Tray 2)



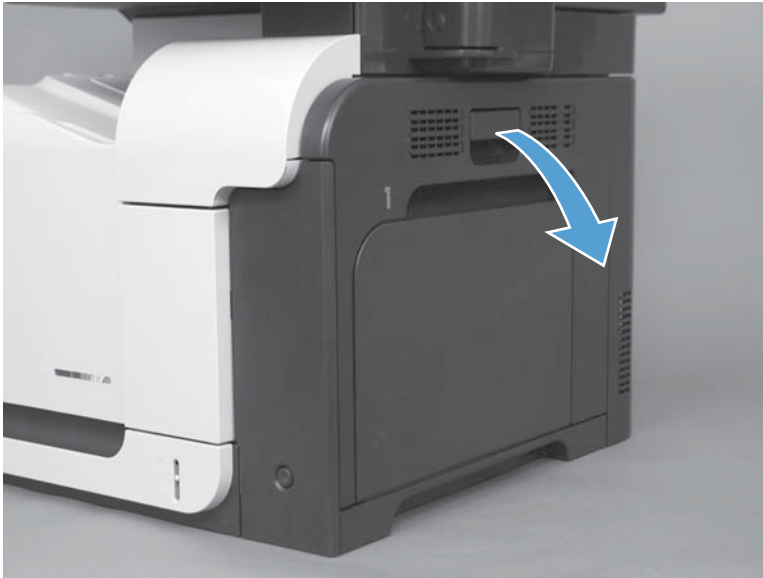
⚠ CAUTION: To install a self-tapping screw, first turn it counterclockwise to align it with the thread pattern, and then carefully turn it clockwise to tighten. Do not overtighten. If a self-tapping screw-hole becomes stripped, repair the screw-hole or replace the affected assembly.

Secondary transfer roller

CAUTION: Do not touch the spongy roller surface unless you are replacing the roller. Skin oils on the roller can cause image quality problems.

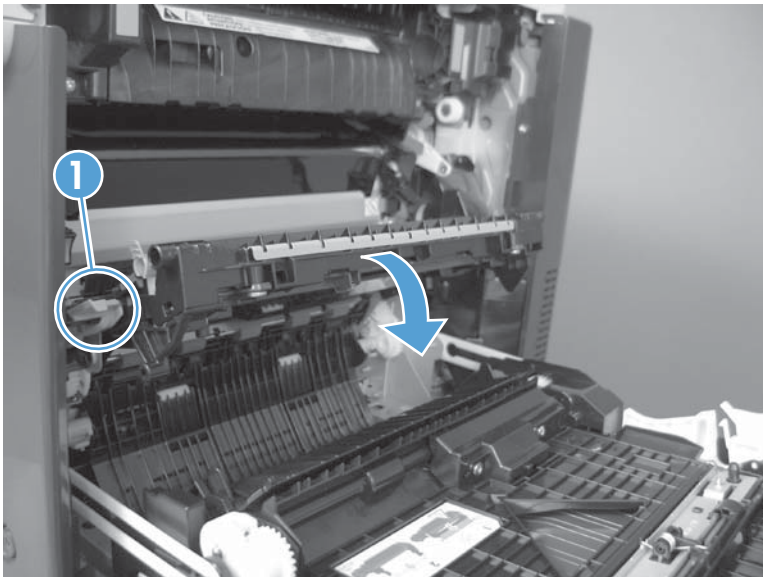
1. Open the right-door assembly.

Figure 1-35 Remove the transfer roller (1 of 3)



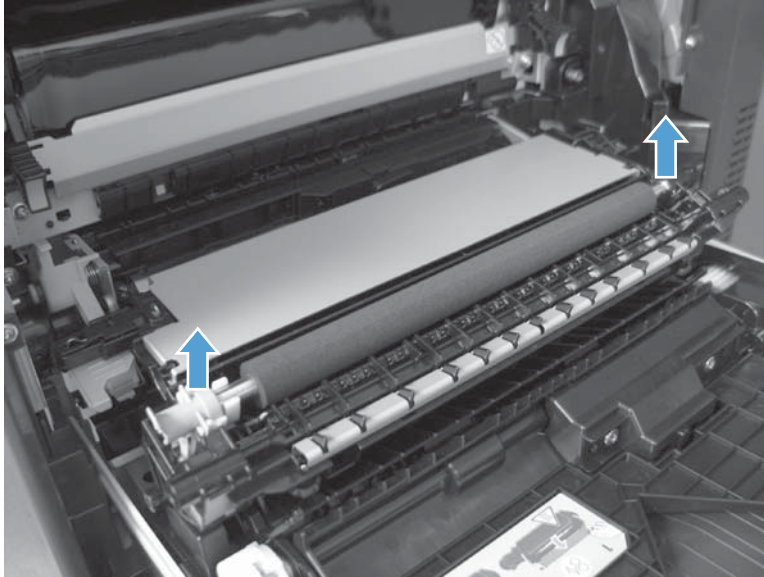
2. Use the blue lever (callout 1) to lower the secondary transfer assembly.

Figure 1-36 Remove the transfer roller (2 of 3)



3. Grasp the roller shaft collars, and lift the transfer roller off of the product.

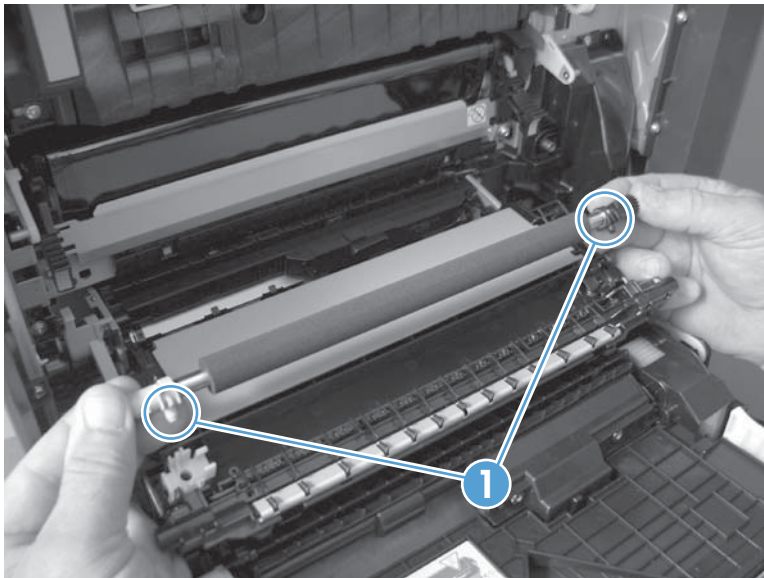
Figure 1-37 Remove the transfer roller (3 of 3)



Reinstall the transfer roller

When you reinstall the transfer roller, make sure that the pins on the shaft collars (callout 1) align with the holes in the mounting assembly.

Figure 1-38 Reinstall the transfer roller

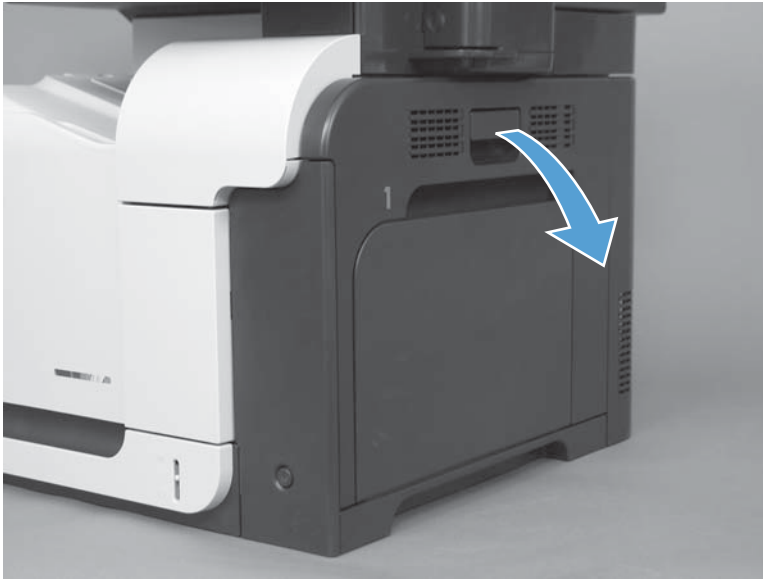


Intermediate transfer belt (ITB)

CAUTION: Do not touch the black-plastic belt. Skin oils and fingerprints on the belt can cause print-quality problems. Always place the ITB on a flat surface in a safe and protected location.

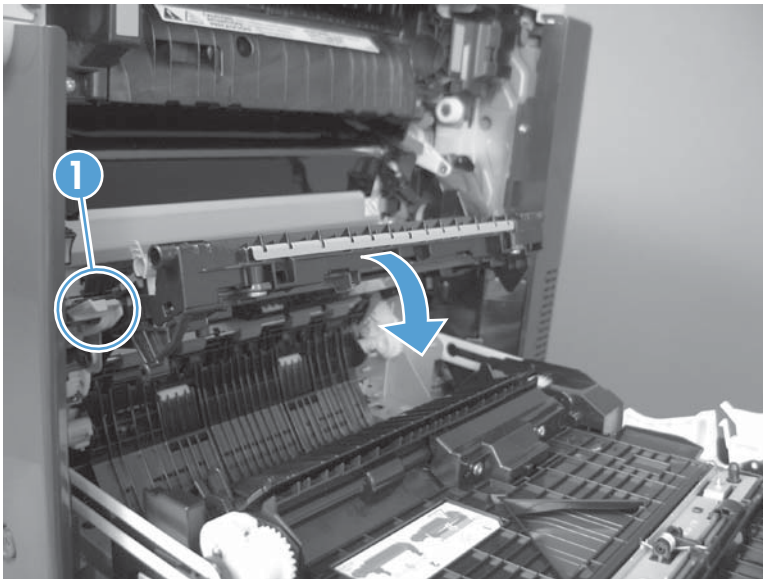
1. Open the right-door assembly.

Figure 1-39 Remove the fuser (1 of 2)



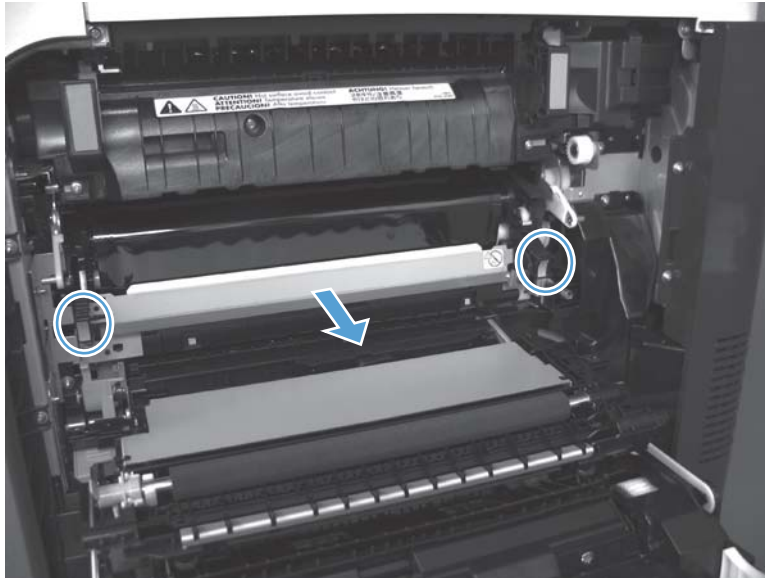
2. Use the blue lever (callout 1) to lower the secondary transfer assembly.

Figure 1-40 Remove the intermediate transfer belt (1 of 3)



3. Grasp the small handles on the ITB and then pull the ITB out of the product until two large handles expand along the right- and left-side of the ITB.

Figure 1-41 Remove the intermediate transfer belt (2 of 3)



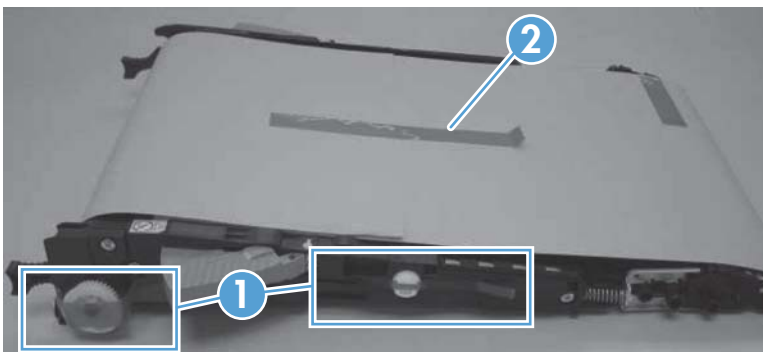
4. Grasp the large handles on the ITB and then pull the ITB straight out of the product to remove it.

CAUTION: The ITB is a sensitive component. Be careful when handling the ITB so that it is not damaged. Always place the ITB in a safe and protected location.

Figure 1-42 Remove the intermediate transfer belt (3 of 3)



Reinstallation tip If you are installing a replacement ITB, make sure that you remove all of the packing tape (callout 1) and the protective cover sheet (callout 2).



Front-door assembly

1. Open the front door.

Figure 1-43 Remove the front-door assembly (1 of 2)



2. Remove two screws (callout 1), and then remove the front-door assembly.


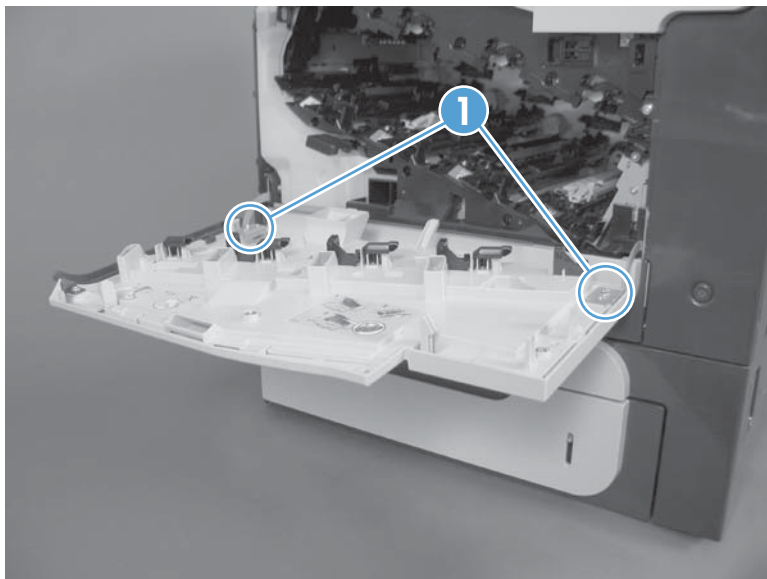
 **NOTE:** A small sheet-metal bracket on the left side of the door is not captive. Do not lose the bracket when you remove the screw.

Figure 1-44 Remove the front-door assembly (2 of 2)

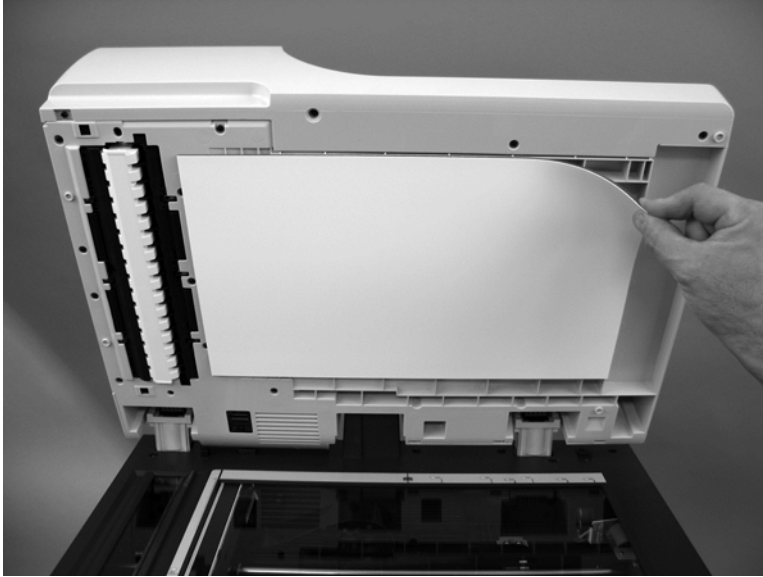


3. If you are installing a replacement front-door assembly, install the HP name tag and the appropriate product model number tag on the assembly.

Foam reflector kit (white ADF backing)

1. Open the ADF.
2. Carefully peel the foam reflector from the ADF.

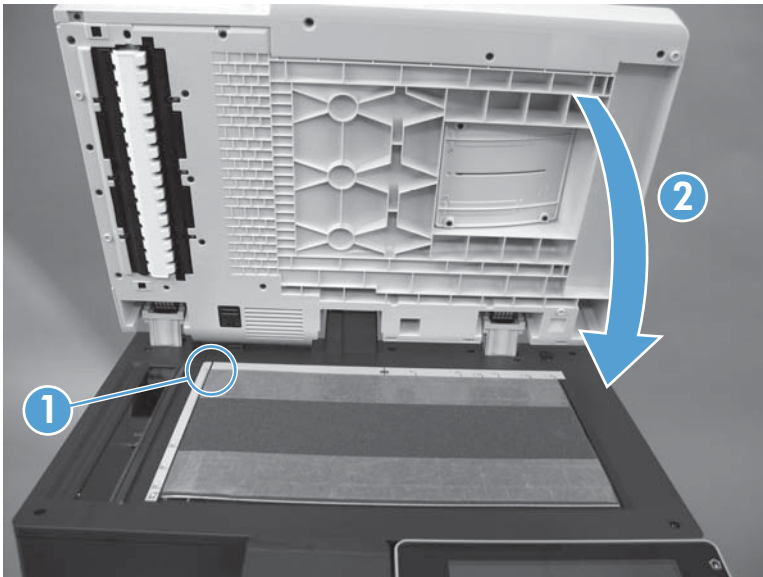
Figure 1-45 Remove the foam reflector kit (white ADF backing) (1 of 2)



Reinstall the white ADF backing

- ▲ Place the foam reflector on the scanner glass with the adhesive facing up. Make sure the corner of the foam reflector is aligned with the corner of the scanner glass (callout 1). Close the ADF (callout 2) to attach the foam reflector. Open the ADF and then press firmly on the foam reflector to ensure it is securely attached.

Figure 1-46 Remove the foam reflector kit (white ADF backing) (2 of 2)

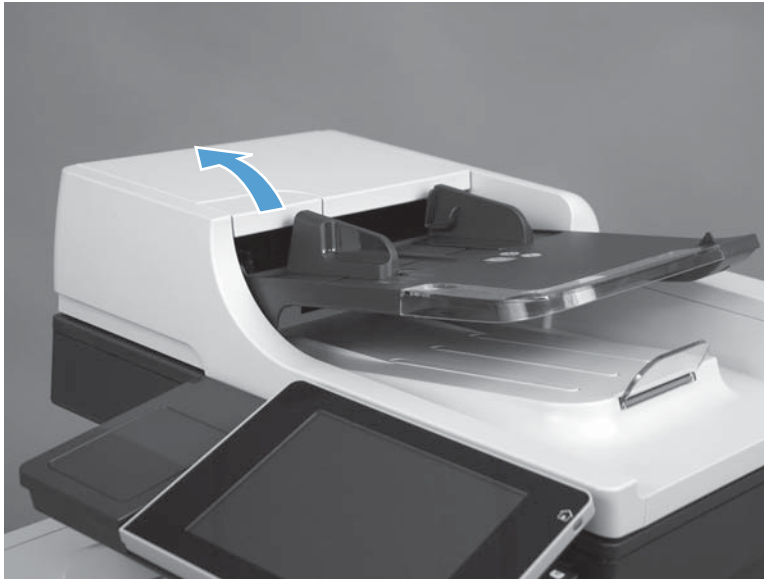


ADF pickup roller

⚠ CAUTION: Do not touch the surface of the roller. Skin oils deposited on the roller might cause print-quality problems.

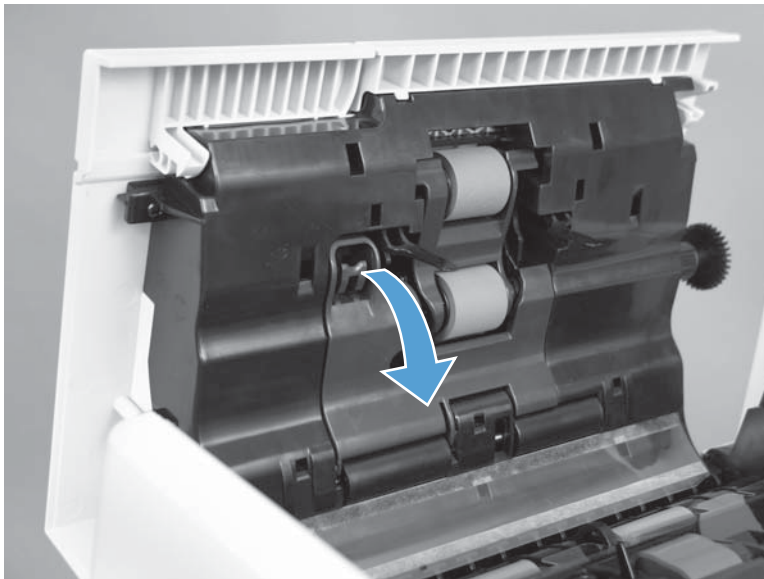
1. Open the jam-access cover.

Figure 1-47 Remove the ADF pickup roller (1 of 4)



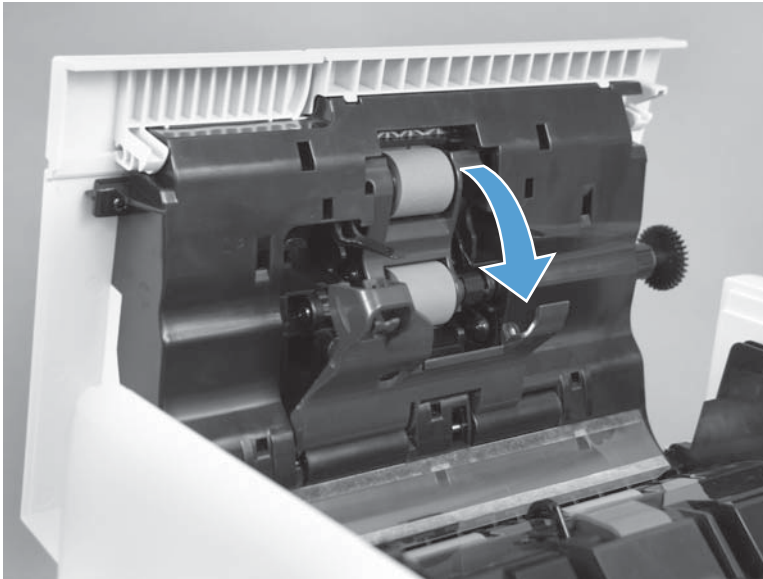
2. Open the roller-access cover.

Figure 1-48 Remove the ADF pickup roller (2 of 4)



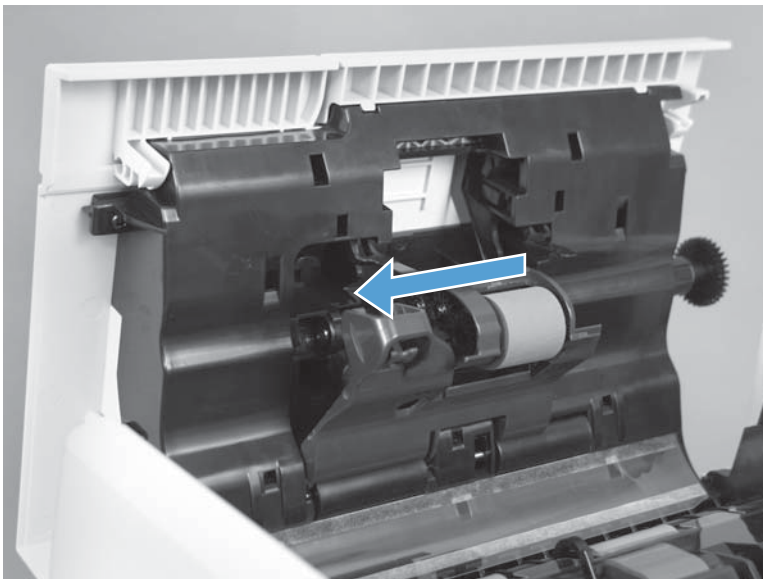
3. Lower the ADF pickup roller.


Figure 1-49 Remove the ADF pickup roller (3 of 4)



4. Slide the roller toward the front of the product to remove.

Figure 1-50 Remove the ADF pickup roller (4 of 4)



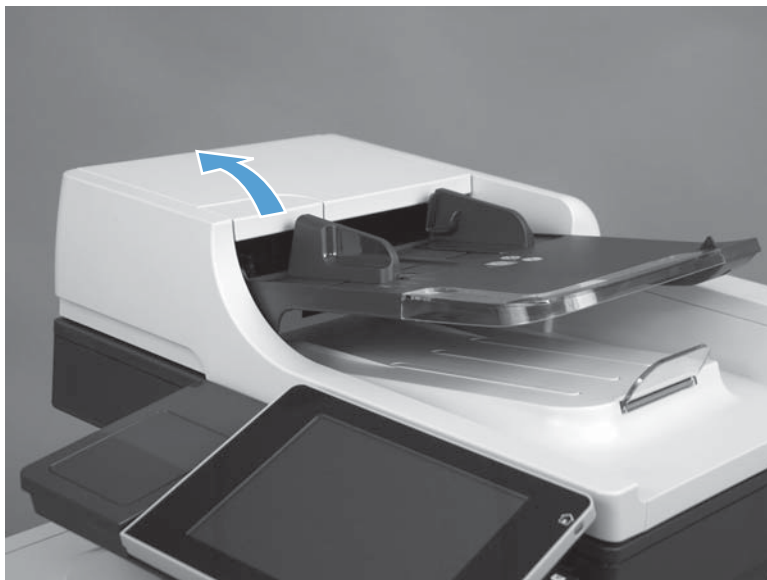
 **TIP:** The roller assembly is keyed. When reinstalling the roller assembly, position the hex-shaped fitting on the shaft toward the rear of the product.

ADF separation pad and spring

⚠ CAUTION: Do not touch the surface of the roller. Skin oils deposited on the roller might cause print-quality problems.

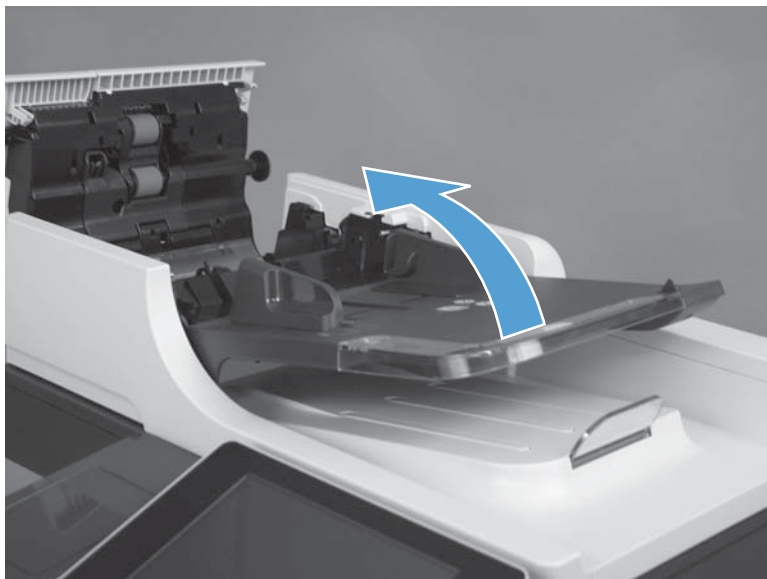
1. Open the jam-access cover.

Figure 1-51 Remove the ADF separation pad and ADF separation pad spring (1 of 5)



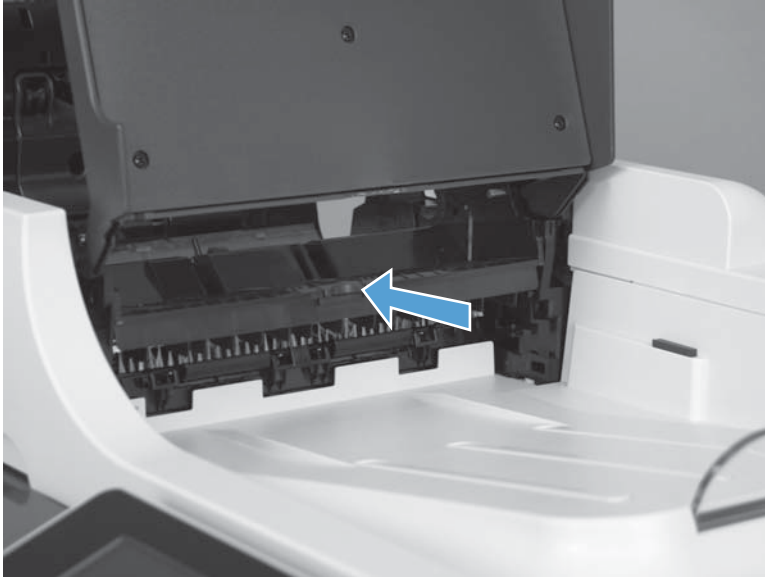
2. Lift the ADF tray.

Figure 1-52 Remove the ADF separation pad and ADF separation pad spring (2 of 5)



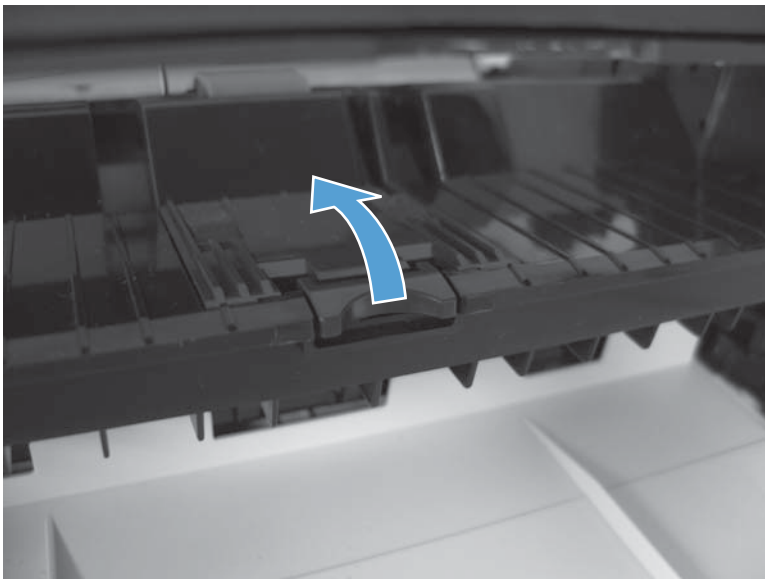
3. Push in on the latch to release the separation pad.

Figure 1-53 Remove the ADF separation pad and ADF separation pad spring (3 of 5)



4. Lower the ADF tray, and then lift the separation pad.

Figure 1-54 Remove the ADF separation pad and ADF separation pad spring (4 of 5)



5. Remove the separation pad and spring.

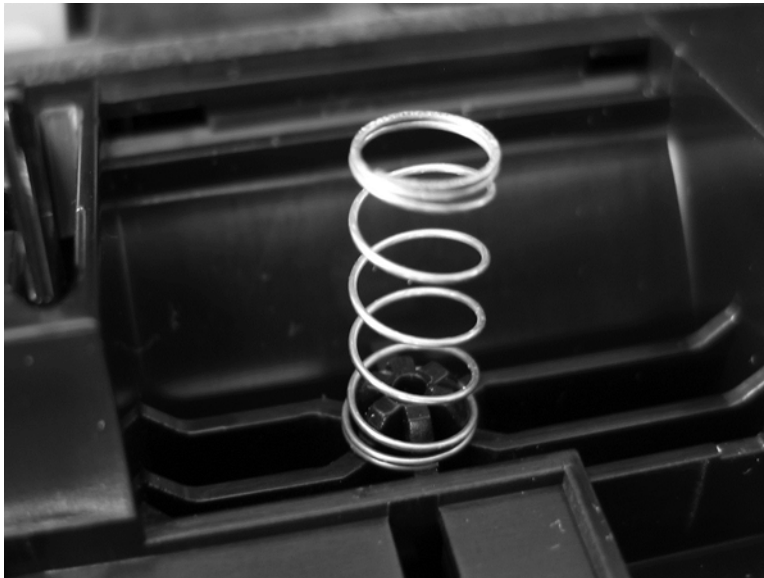
Figure 1-55 Remove the ADF separation pad and ADF separation pad spring (5 of 5)



Reinstall the ADF separation pad spring

- ▲ Make sure to securely reinstall the spring if it becomes dislodged.

Figure 1-56 Reinstall the ADF separation pad spring

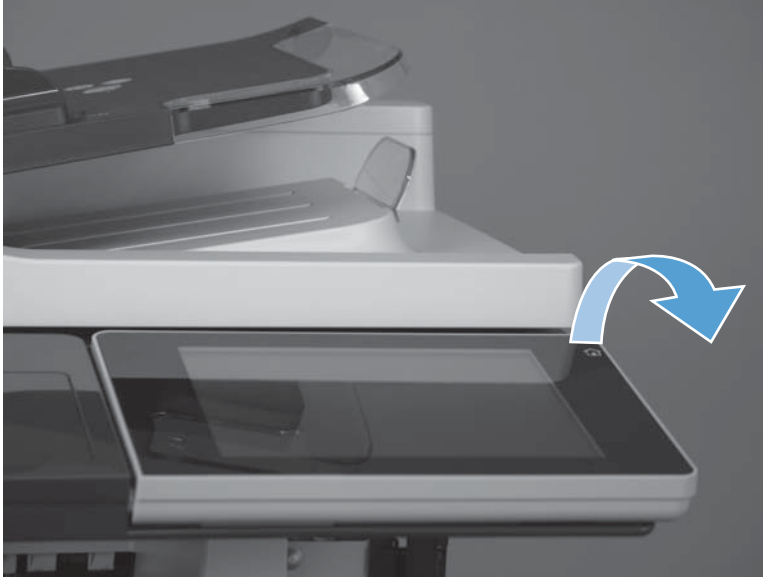


Control panel

 **WARNING!**  ESD sensitive component.

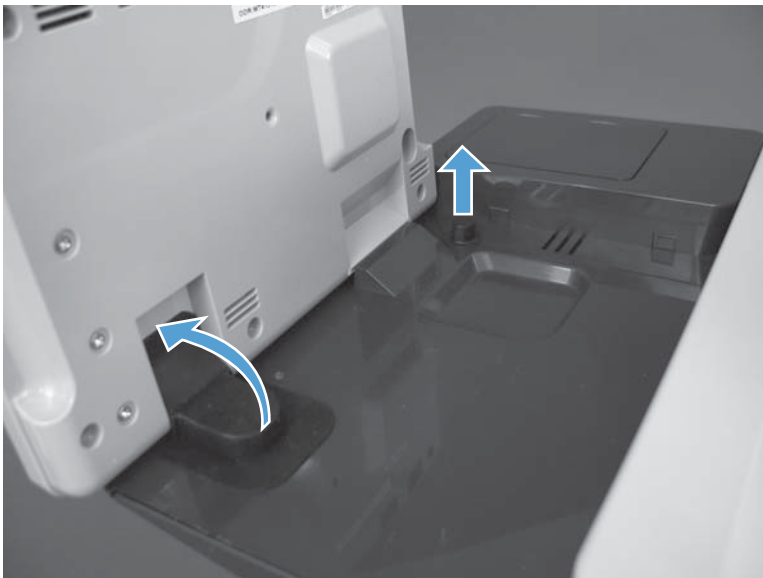
1. Lift the control panel to an upright position.

Figure 1-57 Remove the control panel (1 of 5)



2. Lift the antistatic covers to reveal the thumbscrews.

Figure 1-58 Remove the control panel (2 of 5)



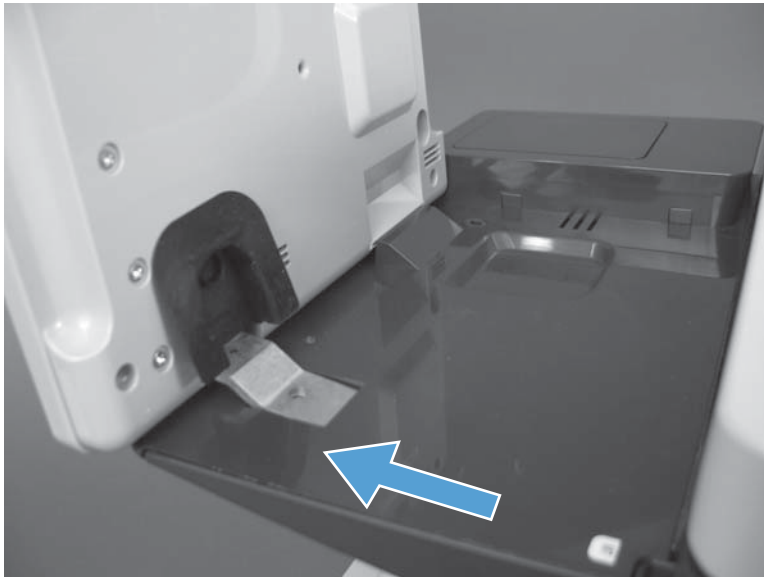
3. Remove two thumbscrews.

Figure 1-59 Remove the control panel (3 of 5)



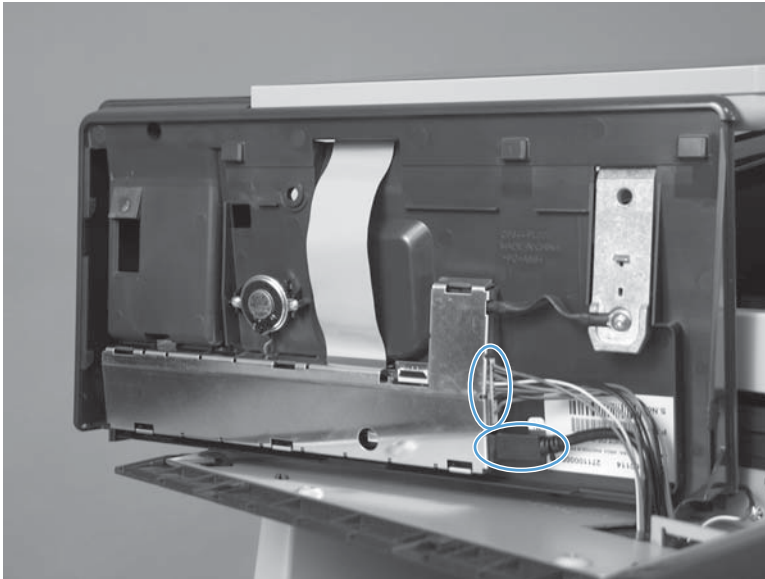
4. Slowly slide the control panel away from the product to release it. Lift the control panel to reveal the connectors.

Figure 1-60 Remove the control panel (4 of 5)



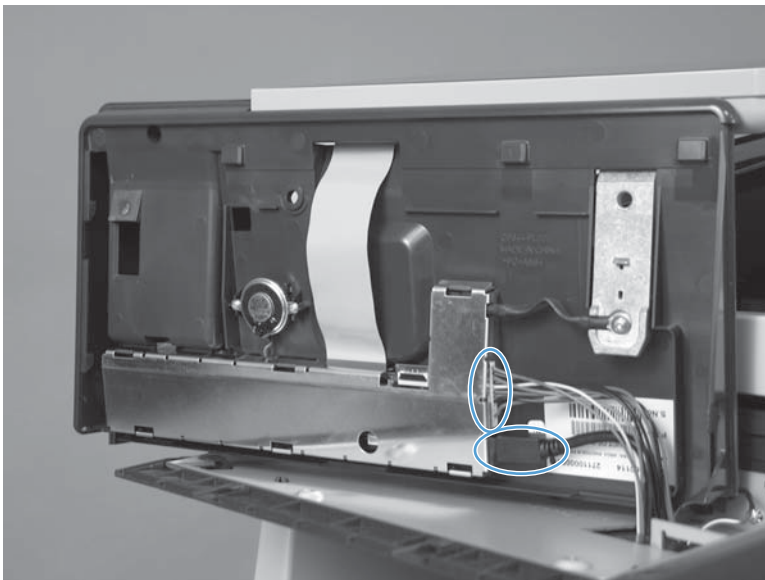
5. Disconnect two connectors and then remove the control panel.

Figure 1-61 Remove the control panel (5 of 5)



Reinstalling the control panel

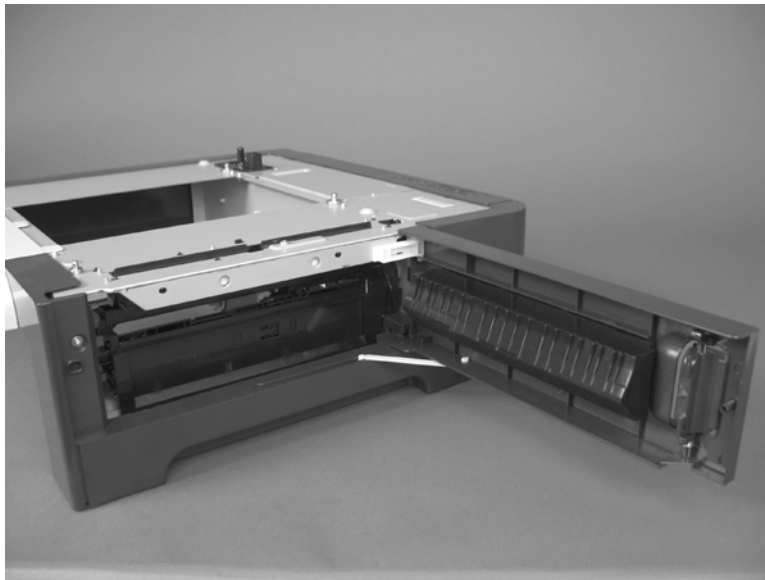
- ▲ Place the control-panel on the product and reconnect the two connectors before attempting to reinstall the control panel.



Right door (optional paper feeder)

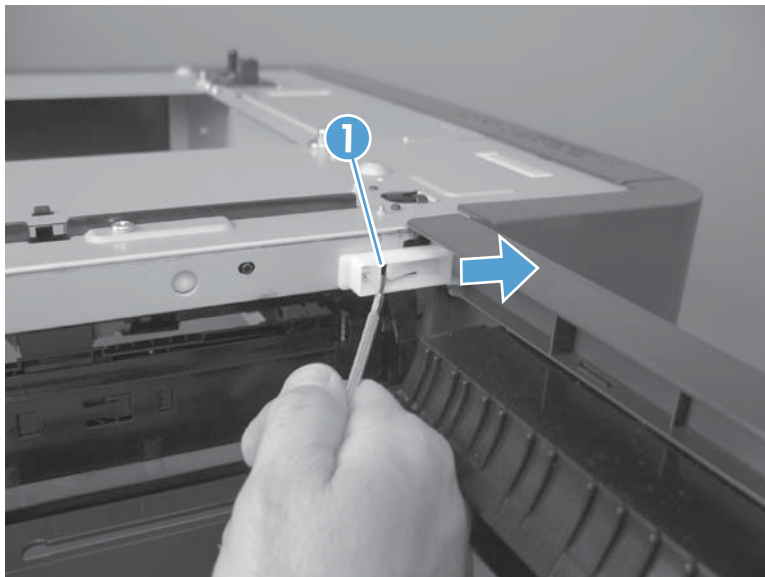
1. Open the right door.

Figure 1-62 Remove the right door; optional paper feeder (1 of 3)



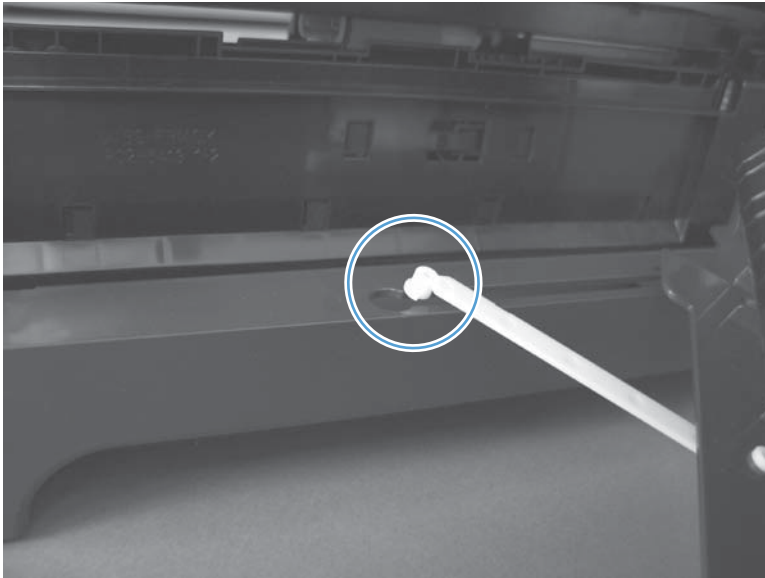
2. Release one tab (callout 1), and then slide the stopper toward the right side of the product to remove it.

Figure 1-63 Remove the right door; optional paper feeder (2 of 3)



3. Support the door, and then release the door-retainer arm at the bottom of the door. Raise the door to release the lower hinge pin, and then remove the door.

Figure 1-64 Remove the right door; optional paper feeder (3 of 3)



External panels, covers, and doors

Identification and location


 **NOTE:** Your product might not appear exactly as the one shown in the photos in this chapter. Although some photos do not show the ADF/scanner unit, the procedures in this chapter are appropriate for your product.

Figure 1-65 External panels, covers, doors, and scanner assembly; identification and location

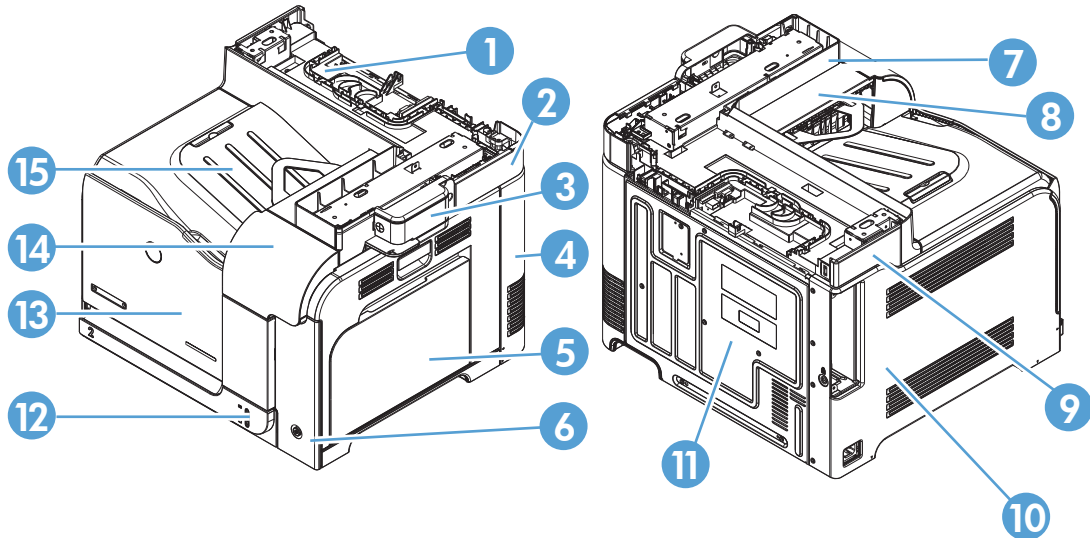


Table 1-2 External panels, covers, doors, and scanner assembly; identification and location

Item	Description
1	Rear-top cover (see Rear-top cover on page 81)
2	Right-top cover (see Right-top cover on page 75)
3	Stapler cover (see Stapler cover on page 54)
4	Right-rear cover (see Right-rear cover on page 59)
5	Right-door assembly (see Right-door assembly on page 55)
6	Right-front cover (see Right-front cover on page 69)
7	Upper-right cover (see Upper-right cover on page 77)
8	Delivery cover (see Delivery cover on page 73)
9	Left-upper cover (see Left-upper cover on page 66)
10	Left cover (see Left cover on page 61)
11	Rear cover (see Rear cover on page 67)
12	Tray (see Tray 2 and 3 on page 23)
13	Front-door assembly (see Front-door assembly on page 37)
14	Front-upper cover (see Front-upper cover on page 52)
15	Front-top cover (see Front-top cover on page 79)

Control-panel USB cover

- ▲ Remove the small cover from USB port on the left side of the control panel.

Figure 1-66 Remove USB cover



Control-panel HIP (hardward integration pocket)

Use a small flat blade screwdriver to carefully separate the cover from the product.

⚠ CAUTION: There are two tabs along each of the long edges of the cover that fasten the cover to the product. Do not break the tabs when the cover is removed.

Figure 1-67 Remove the HIP cover



Front-upper cover

Remove the front-upper cover

1. Open the right door and front door.

Figure 1-68 Remove the front-upper cover (1 of 4)



2. Remove one screw.

Figure 1-69 Remove the front-upper cover (2 of 4)



3. Remove one screw.

Figure 1-70 Remove the front-upper cover (3 of 4)

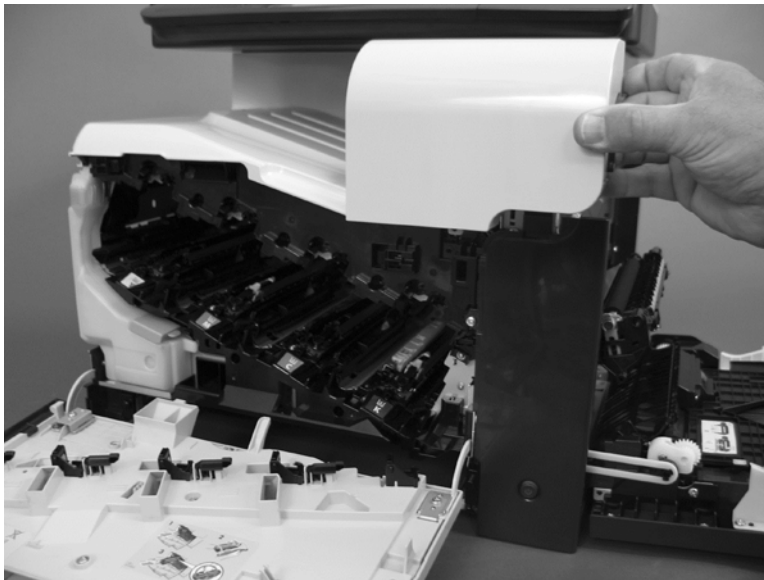


4. Lift the cover up, and then remove the front-upper cover.



NOTE: The cover might be difficult to remove. It might require some flexing to release it.

Figure 1-71 Remove the front-upper cover (4 of 4)



Stapler cover

Remove the stapler cover

- ▲ Remove one screw and then the stapler cover.

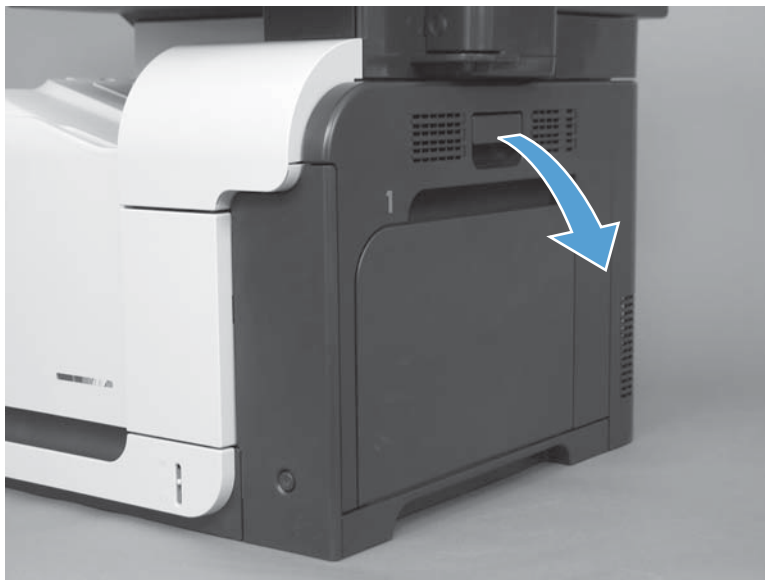
Figure 1-72 Remove the stapler cover



Right-door assembly

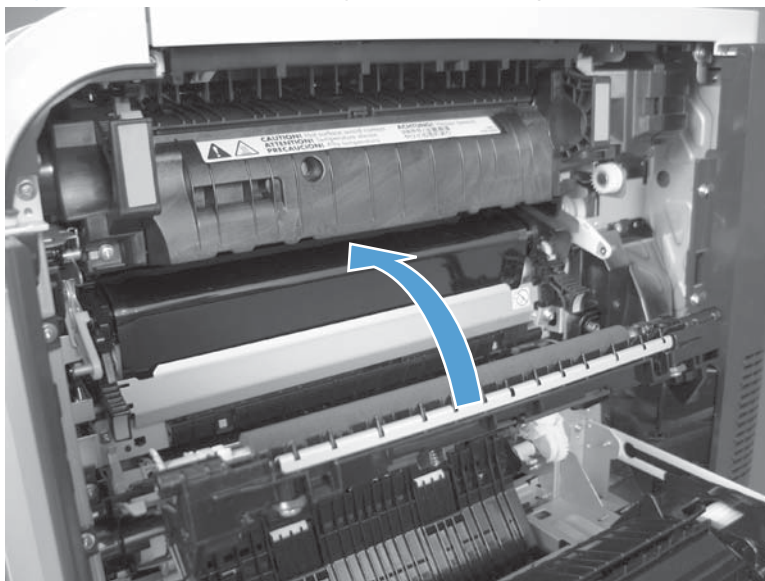
1. Open the right-door assembly

Figure 1-73 Remove the right-door assembly (1 of 8)



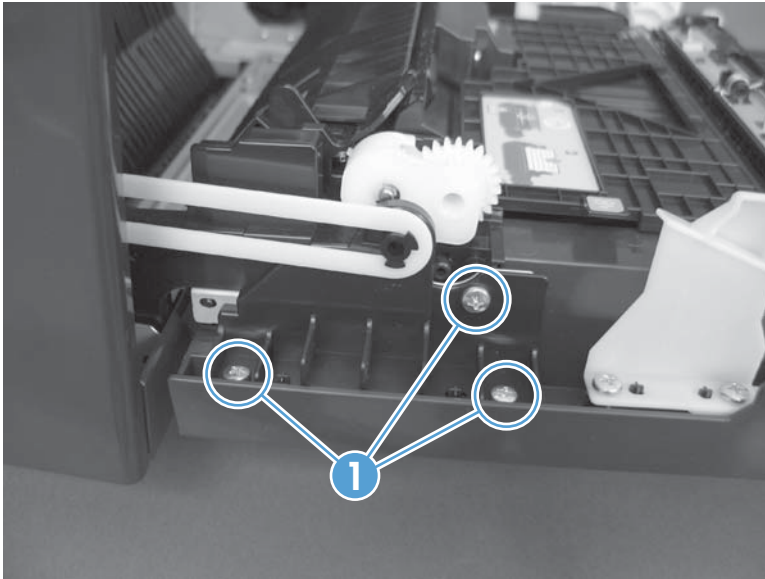
2. Close the secondary transfer assembly.

Figure 1-74 Remove the right-door assembly (2 of 8)



3. Remove three screws (callout 1).

Figure 1-75 Remove the right-door assembly (3 of 8)



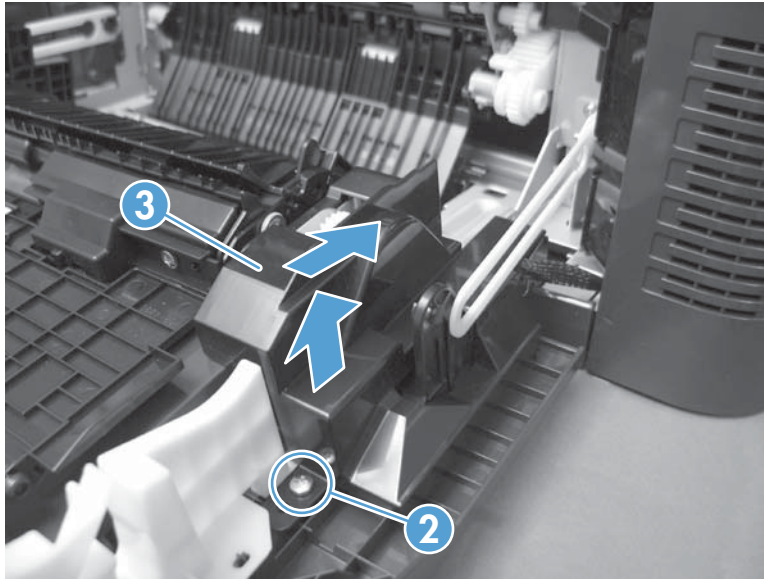
4. Carefully release one link arm.

Figure 1-76 Remove the right-door assembly (4 of 8)



5. Remove one screw (callout 2), and then remove the cover (callout 3).

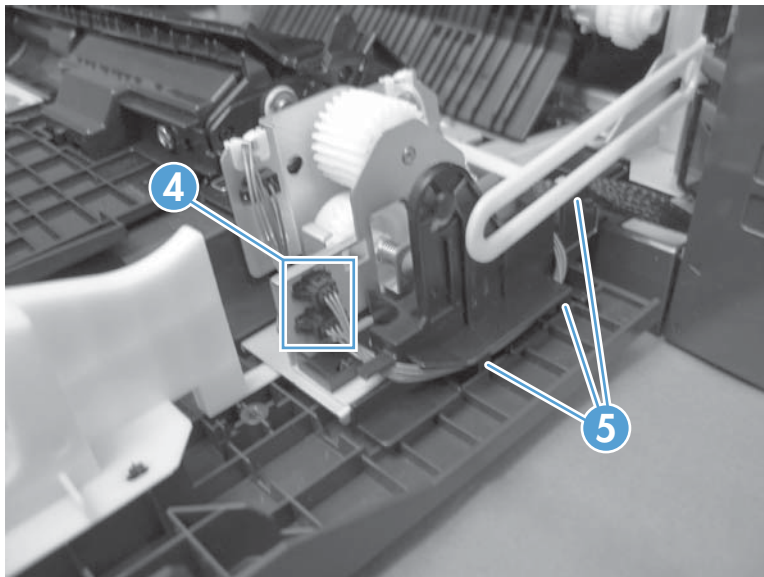
Figure 1-77 Remove the right-door assembly (5 of 8)



6. Disconnect two connectors (callout 4), and then release the wire harness from the guide (callout 5).

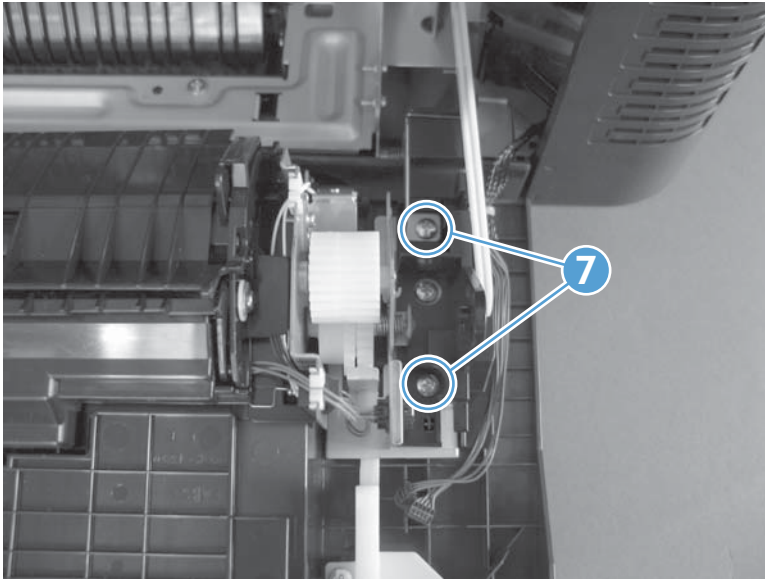
TIP: It is easier to disconnect the lower connector if you first remove the wire harnesses from the guide.

Figure 1-78 Remove the right-door assembly (6 of 8)



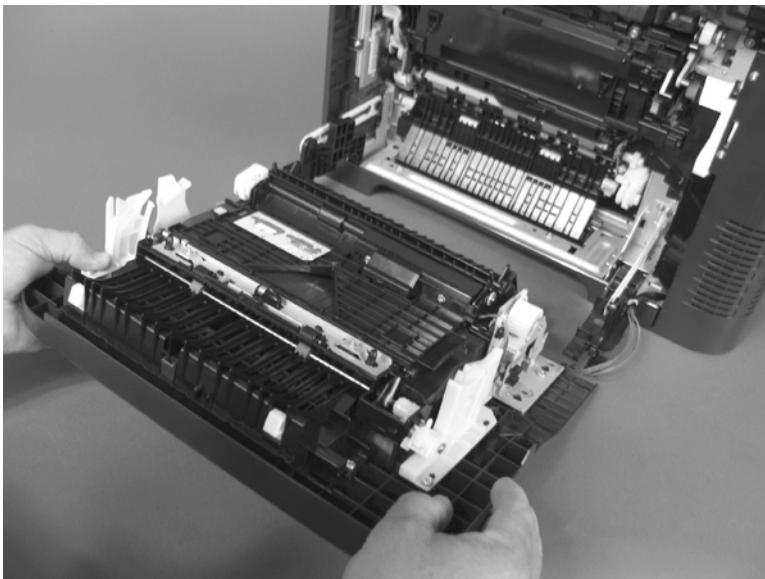
7. Remove two screws (callout 7).

Figure 1-79 Remove the right-door assembly (7 of 8)



8. Remove the right-door assembly.

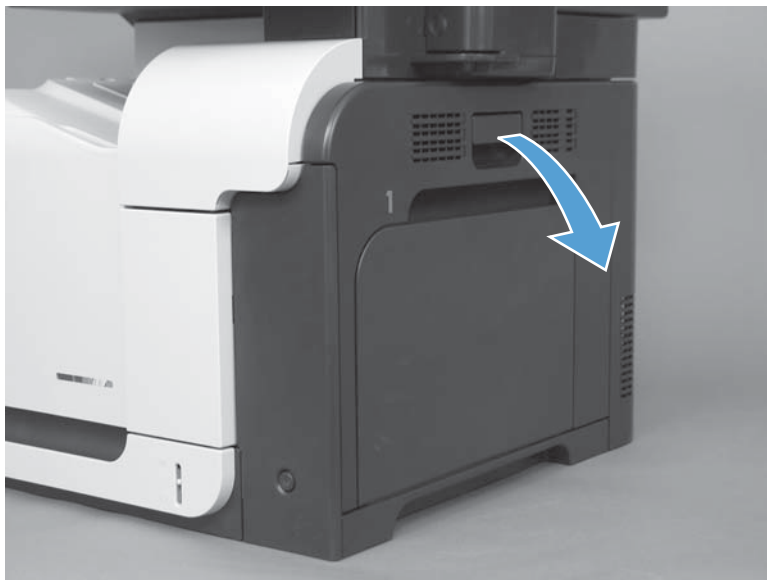
Figure 1-80 Remove the right-door assembly (8 of 8)



Right-rear cover

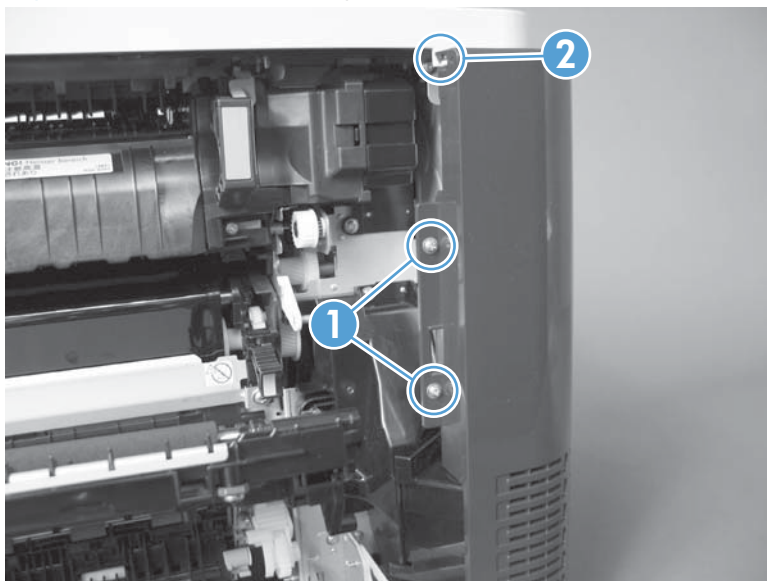
1. Open the right-door assembly.

Figure 1-81 Remove the right-rear cover (1 of 3)



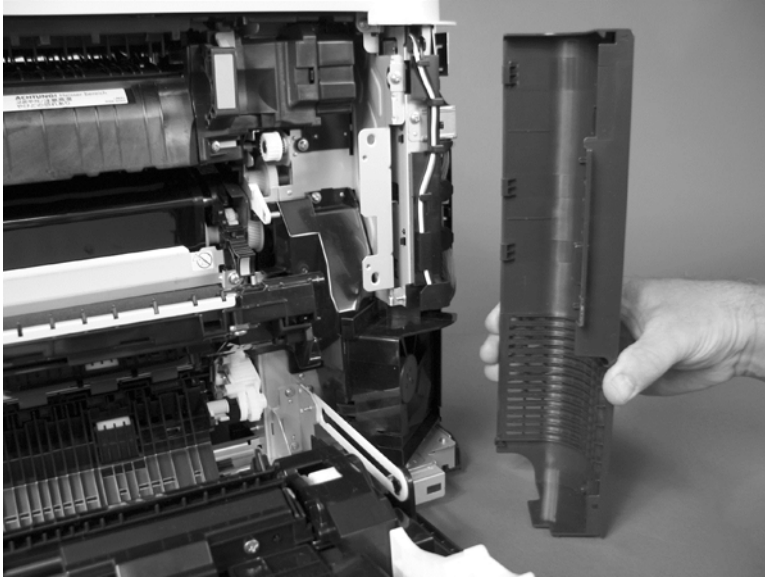
2. Remove two screws (callout 1) and release one tab (callout 2).

Figure 1-82 Remove the right-rear cover (2 of 3)



3. Rotate the bottom of the cover away from the product, and then remove the cover.

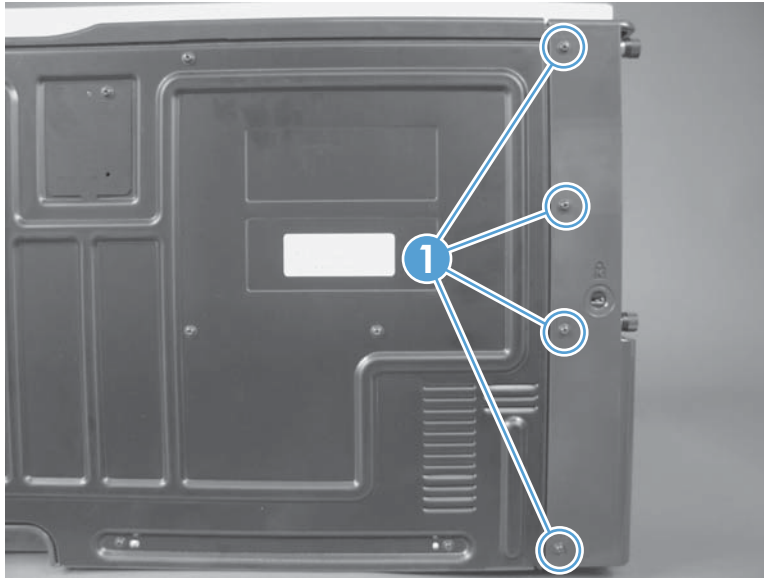
Figure 1-83 Remove the right-rear cover (3 of 3)



Left cover

1. Remove four screws (callout 1).

Figure 1-84 Remove the left cover (1 of 5)



2. Release the rear edge of the cover, and slightly separate the cover from the product.

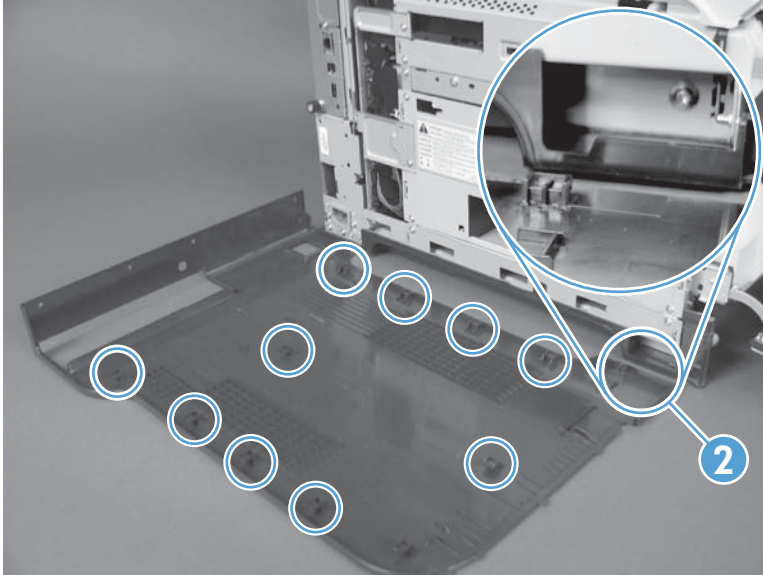
Figure 1-85 Remove the left cover (2 of 5)



3. The figure below shows the cover removed so that you can see the tab locations. **Before proceeding**, note the location of the mounting tabs.

CAUTION: One tab (callout 2) is easily damaged when removing the cover. Be careful when removing the cover.

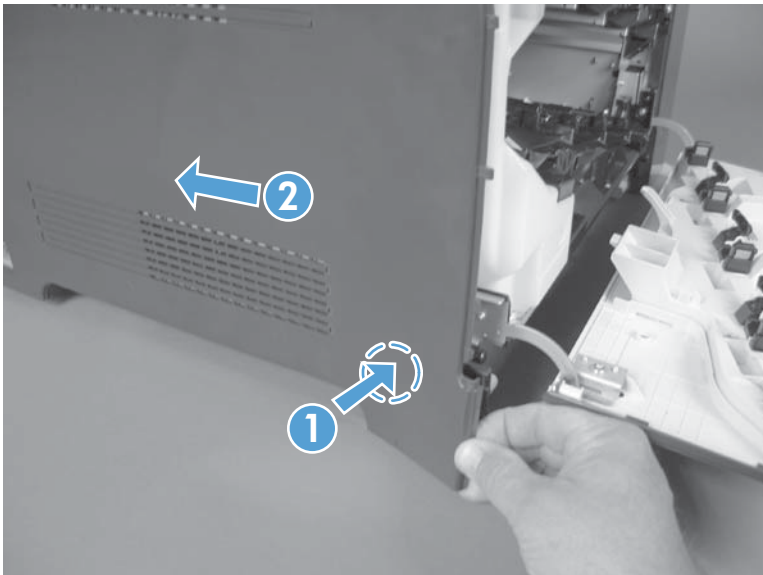
Figure 1-86 Remove the left cover (3 of 5)



4. Use your thumb to press in on the lower-front portion of the cover (near the dashed circle in the figure below), and then slightly slide the cover away from the front door to release one tab.

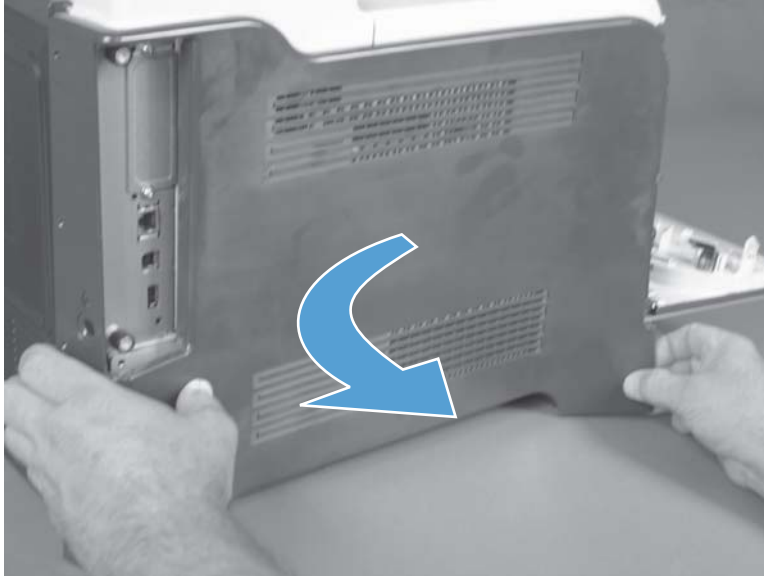
CAUTION: You must flex the cover enough to release the front edge of the cover, but do not damage the tab at the bottom-front edge of the cover. See callout 2 in [Figure 1-86 Remove the left cover \(3 of 5\) on page 62](#).

Figure 1-87 Remove the left cover (4 of 5)



5. Slide the cover toward the rear of the product and rotate it away from the product and then remove the cover.

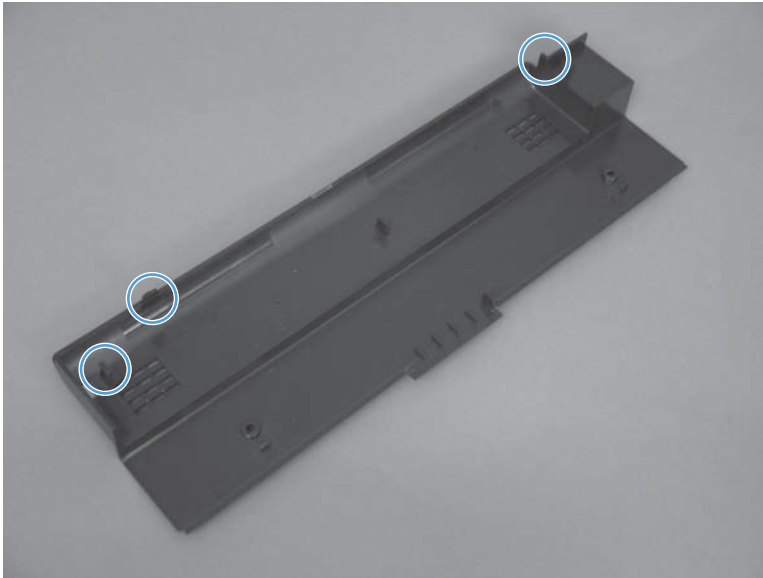
Figure 1-88 Remove the left cover (5 of 5)



Rear-upper cover

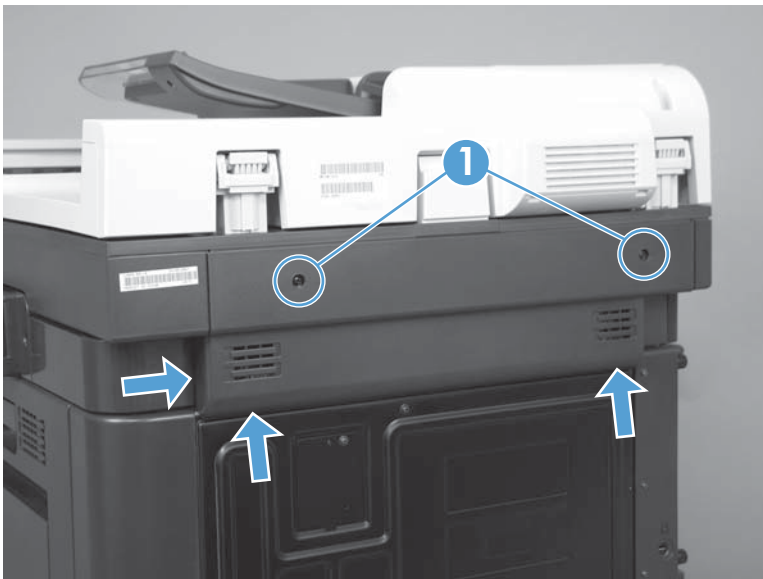
1. Note the location of the three tabs.

Figure 1-89 Remove the rear-upper cover (1 of 3)



2. Remove two screws (callout 1). Push in to release the tabs.

Figure 1-90 Remove the rear-upper cover (2 of 3)



3. Rotate the cover away from the product to remove.

Figure 1-91 Remove the rear-upper cover (3 of 3)



Left-upper cover

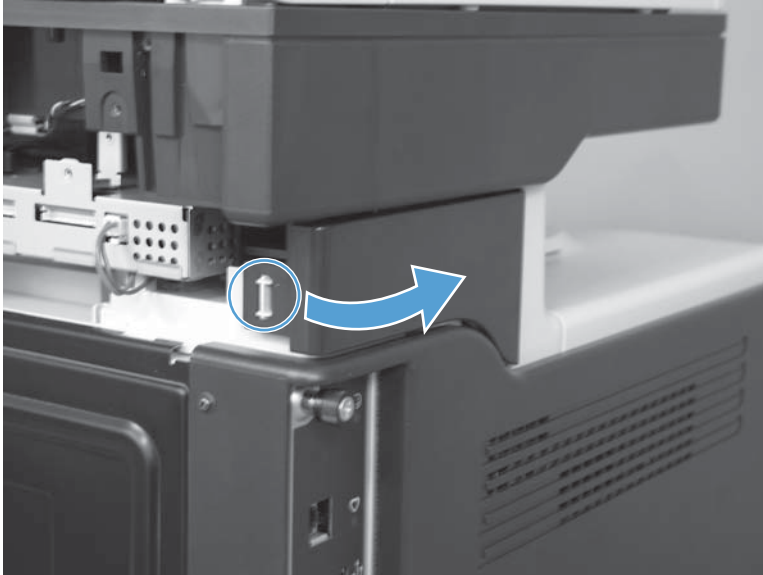
Before proceeding, remove the following components:

- Rear-upper cover. See [Rear-upper cover on page 64](#).

Remove the left-upper cover

- ▲ Release one tab and remove the cover.

Figure 1-92 Remove the left-upper cover



Rear cover

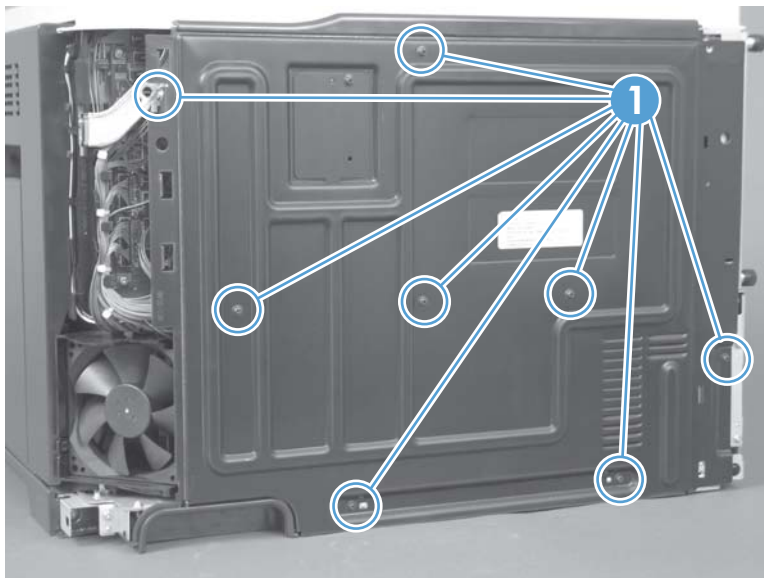
Before proceeding, remove the following components:

- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).

Remove the rear cover

1. Remove eight screws (callout 1).

Figure 1-93 Remove the rear cover (1 of 2)



2. Slide the cover toward the fan side of the product, and then remove the rear cover.

Figure 1-94 Remove the rear cover (2 of 2)




Right-front cover

Before proceeding, remove the following components:

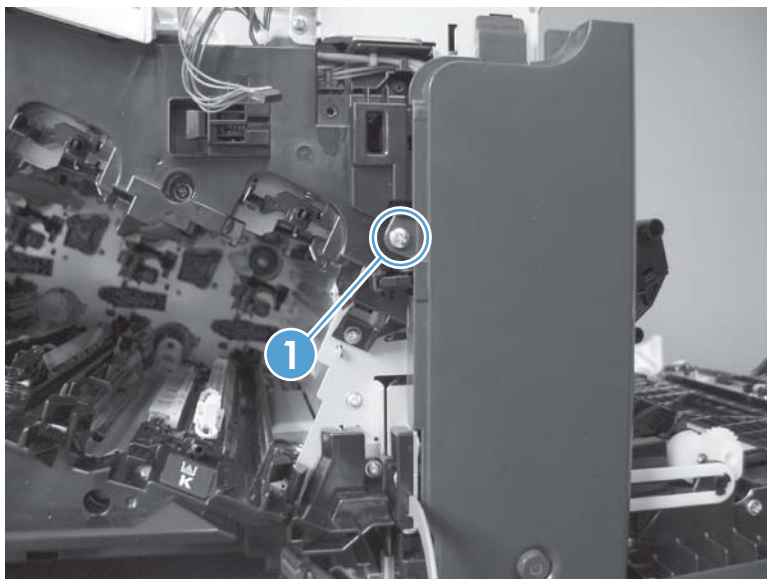
- Front-upper cover. See [Front-upper cover on page 52](#).

Remove the right-front cover

 **NOTE:** Be careful. When removing the cover, do not dislodge the power button. If the button is dislodged, see [Reinstall the power button on page 72](#) to reinstall it.

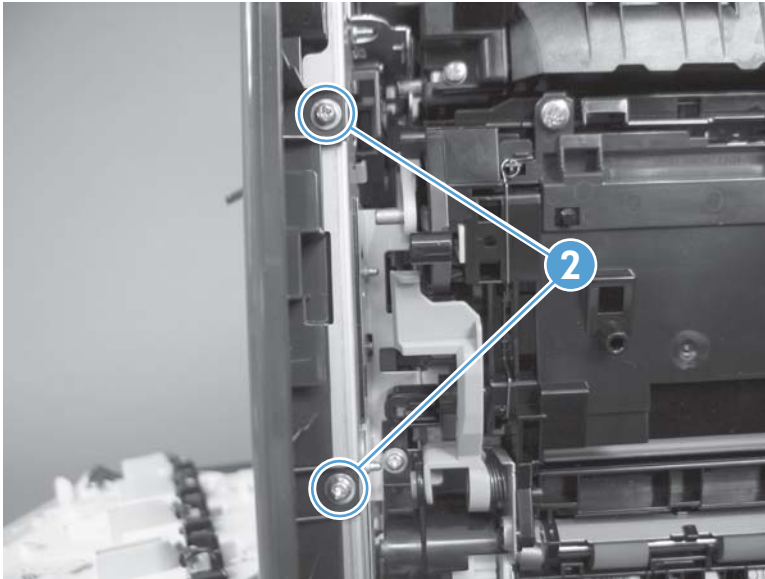
1. Remove one screw (callout 1).

Figure 1-95 Remove the right-front cover (1 of 5)



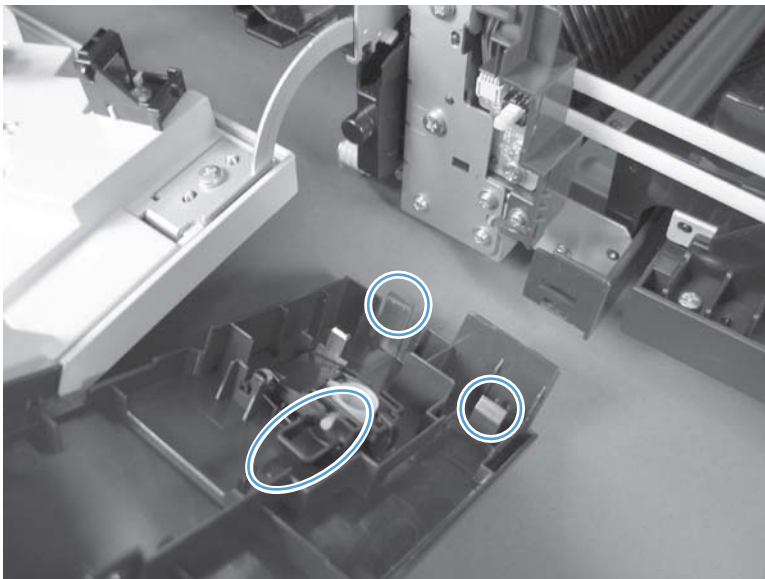
2. Remove two screws (callout 2).

Figure 1-96 Remove the right-front cover (2 of 5)



3. Before you proceed, take note of the tab locations at the bottom of the cover.

Figure 1-97 Remove the right-front cover (3 of 5)



4. Pull down on the cover to release three tabs (callout 3).


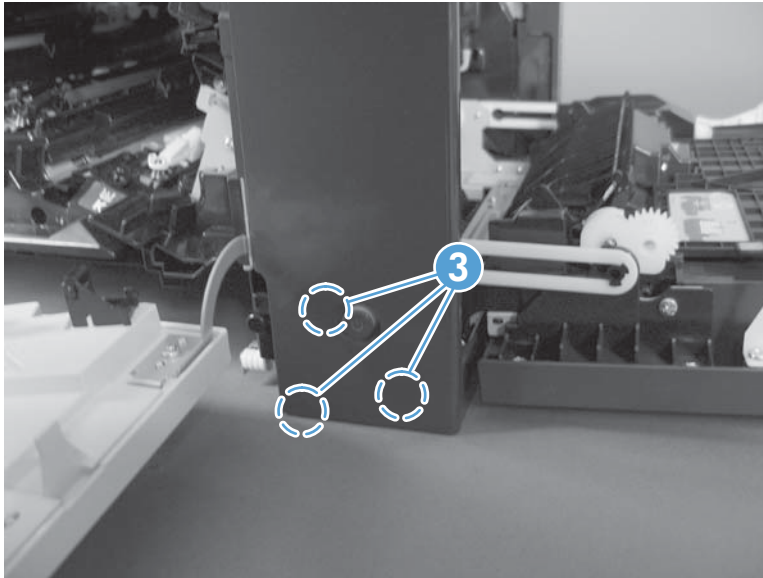
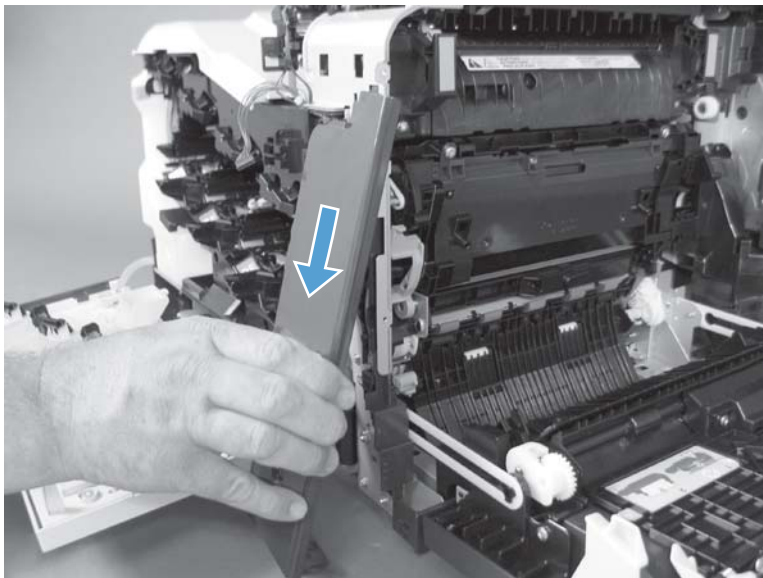
 **TIP:** It might be easier if you position the product at the edge of the work surface so that there is a space for the cover to slide downward. Or, you might try inserting a small flat blade screwdriver behind the cover, and carefully pry the cover away from the product as you pull down on the cover to release the tabs.

Figure 1-98 Remove the right-front cover (4 of 5)



5. Rotate the bottom of the cover away from the product, and then pull down on the cover to remove it.

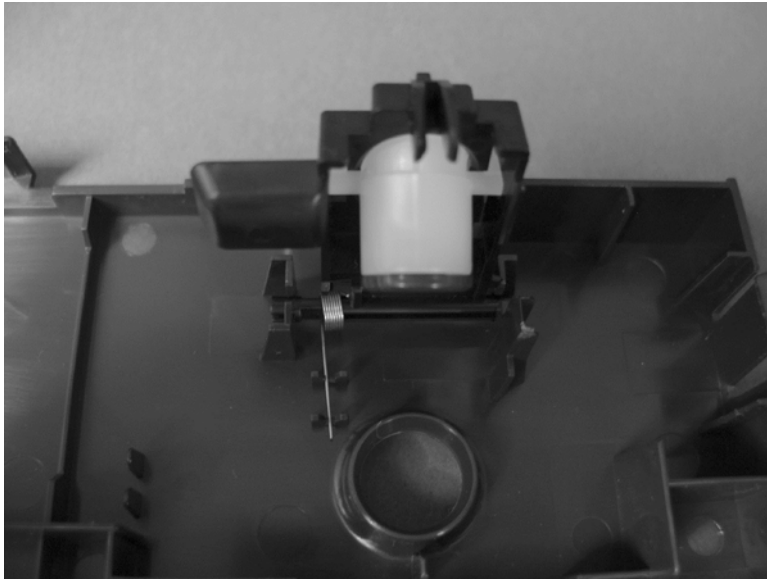
Figure 1-99 Remove the right-front cover (5 of 5)



Reinstall the power button

Snap the power button into the holders on the cover. Make sure that the spring is correctly installed.

Figure 1-100 Reinstall the power button



Delivery cover

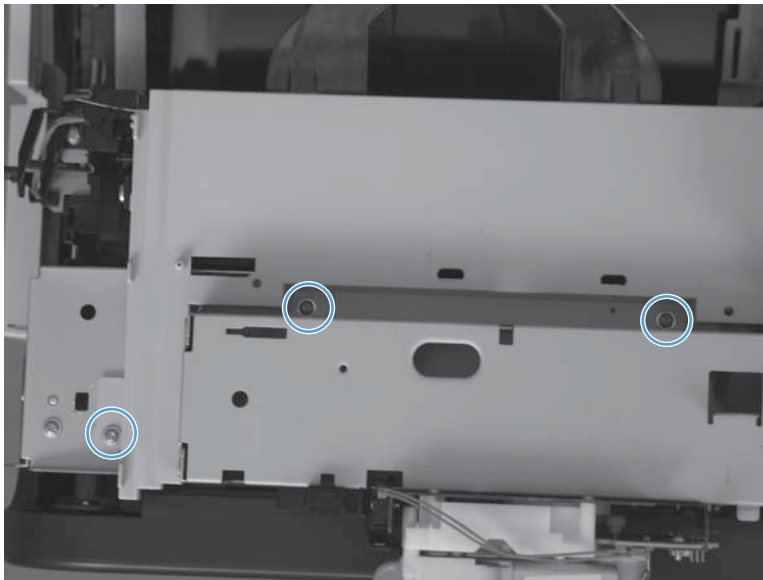
Before proceeding, remove the following components:

- Front-upper cover. See [Front-upper cover on page 52](#).
- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Upper-right cover. See [Upper-right cover on page 77](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).

Remove the delivery cover

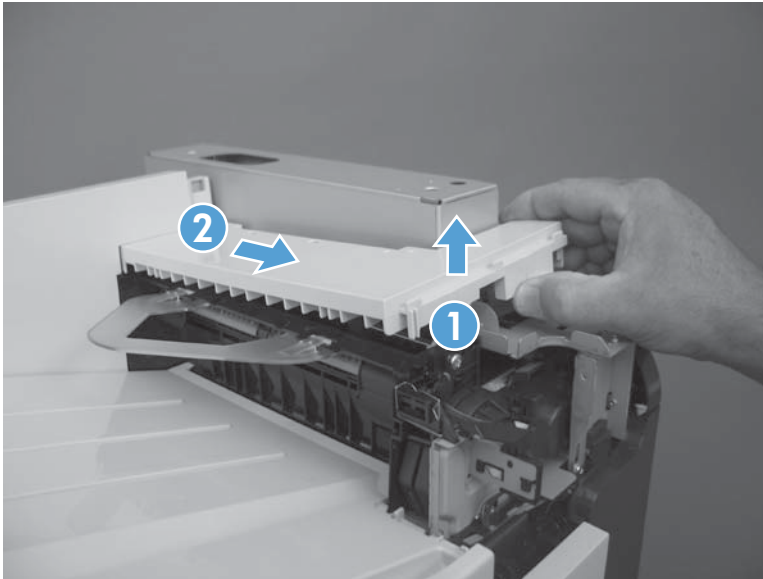
1. Remove three screws.

Figure 1-101 Remove the delivery cover (1 of 3)



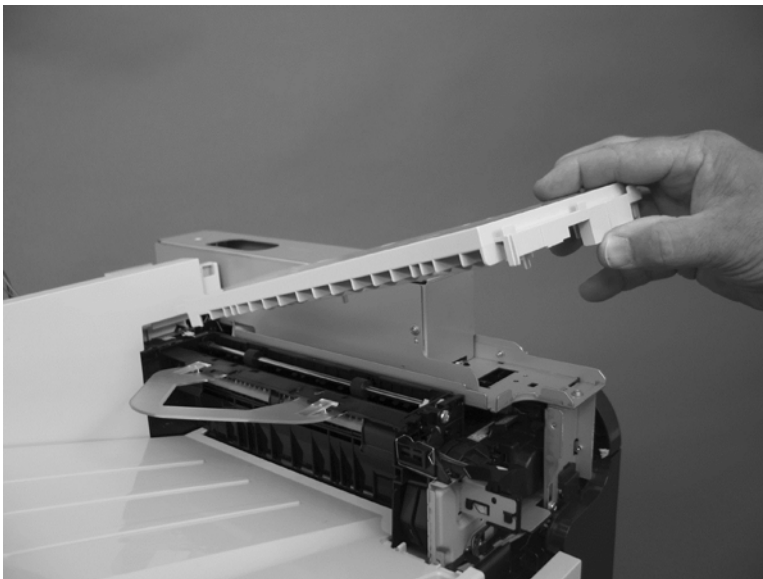
2. Lift up (callout 1) and slide the delivery cover (callout 2).

Figure 1-102 Remove the delivery cover (2 of 3)



3. Remove the delivery cover.

Figure 1-103 Remove the delivery cover (3 of 3)



Right-top cover

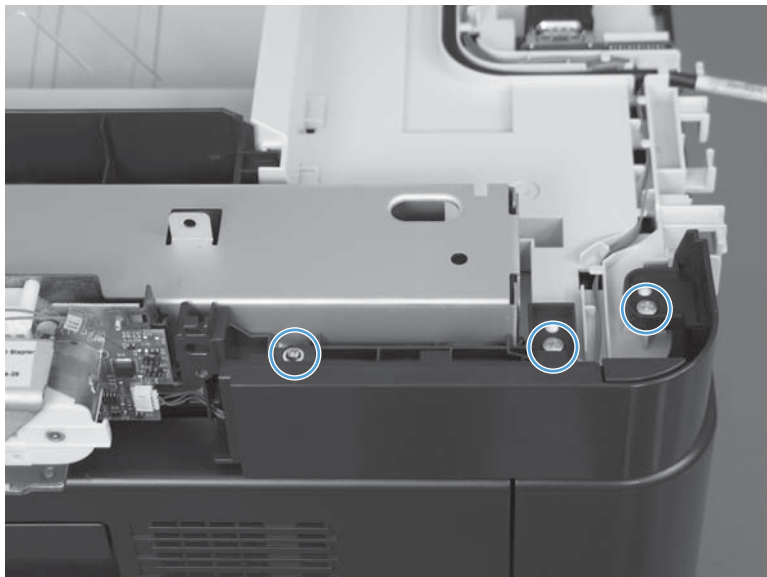
Before proceeding, remove the following components:

- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).

Remove the right-top cover

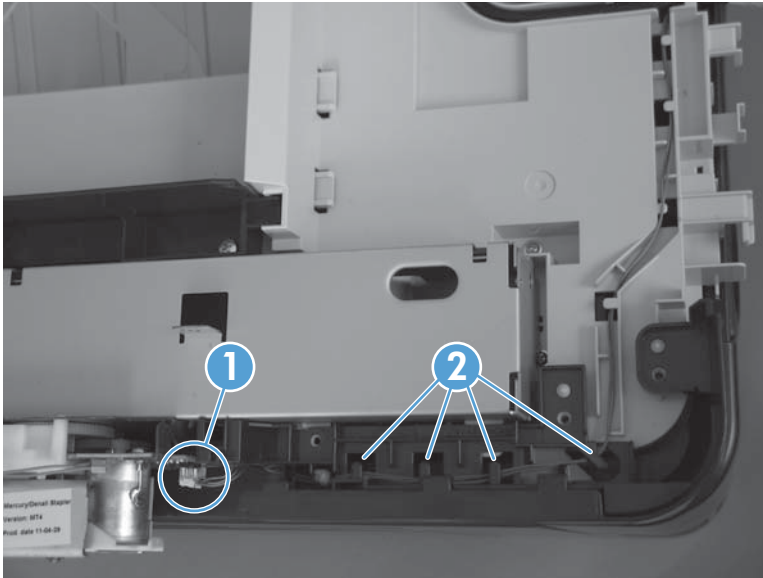
1. Remove three screws.

Figure 1-104 Remove the right-top cover (1 of 2)



2. Disconnect one connector (callout 1), remove the wire harness from its retainer (callout 2), and remove the cover.

Figure 1-105 Remove the right-top cover (2 of 2)



Upper-right cover

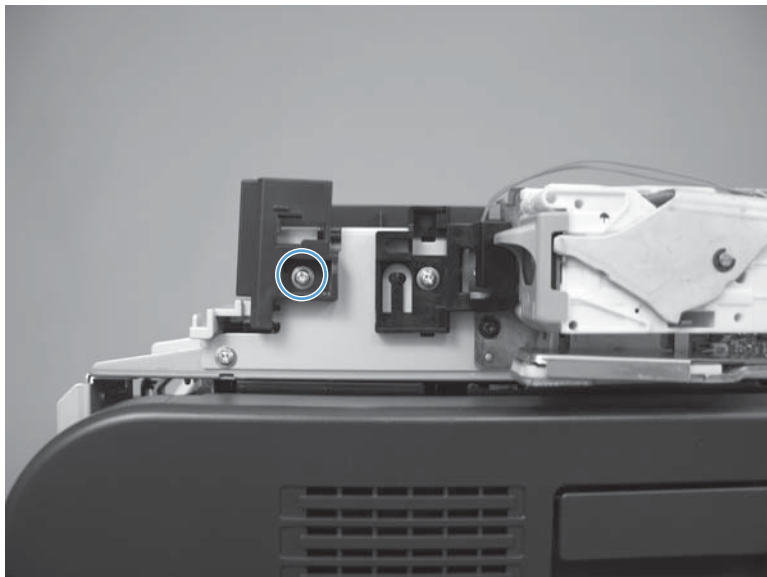
Before proceeding, remove the following components:

- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).

Remove the upper-right cover

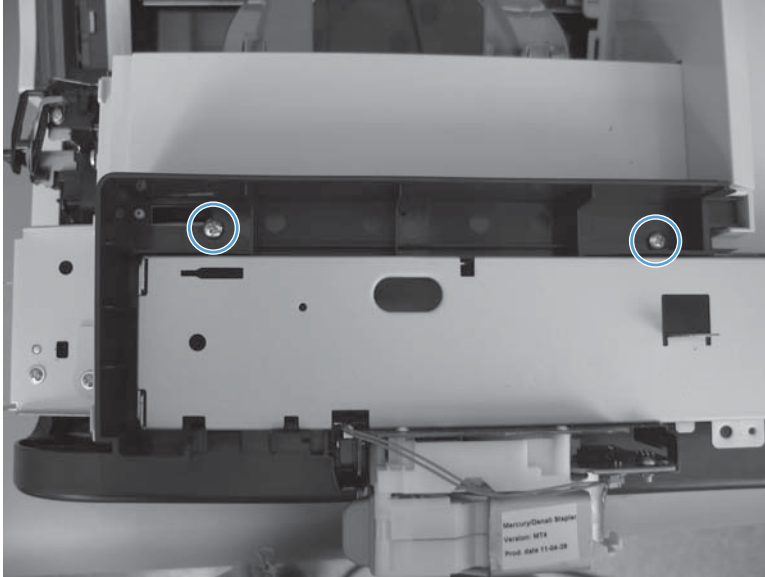
1. Remove one screw.

Figure 1-106 Remove the upper-right cover (1 of 2)



2. Remove two screws, and remove the cover.

Figure 1-107 Remove the upper-right cover (2 of 2)



Front-top cover

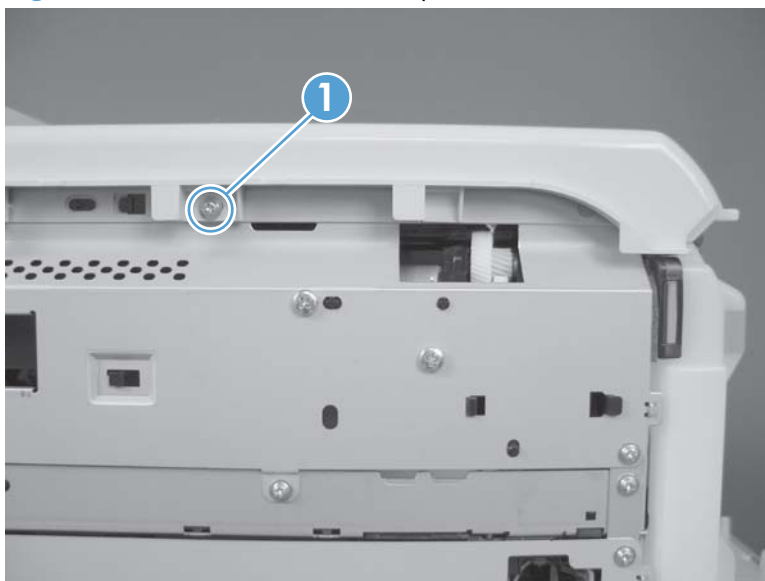
Before proceeding, remove the following components:

- Front-upper cover. See [Front-upper cover on page 52](#).
- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Left cover. See [Left cover on page 61](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).

Remove the front-top cover

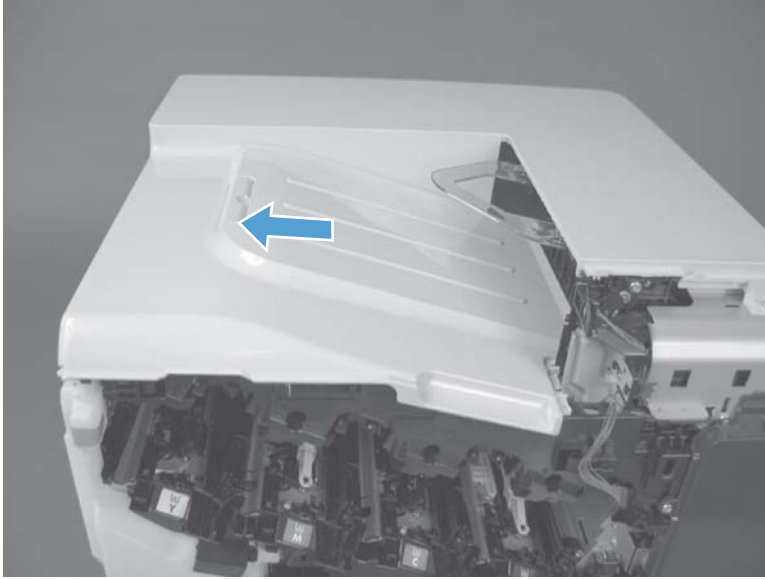
1. Remove one screw (callout 1).

Figure 1-108 Remove the front-top cover (1 of 2)



2. Slide the cover toward the left side of the product to release it, and then remove the cover.

Figure 1-109 Remove the front-top cover (2 of 2)



Rear-top cover

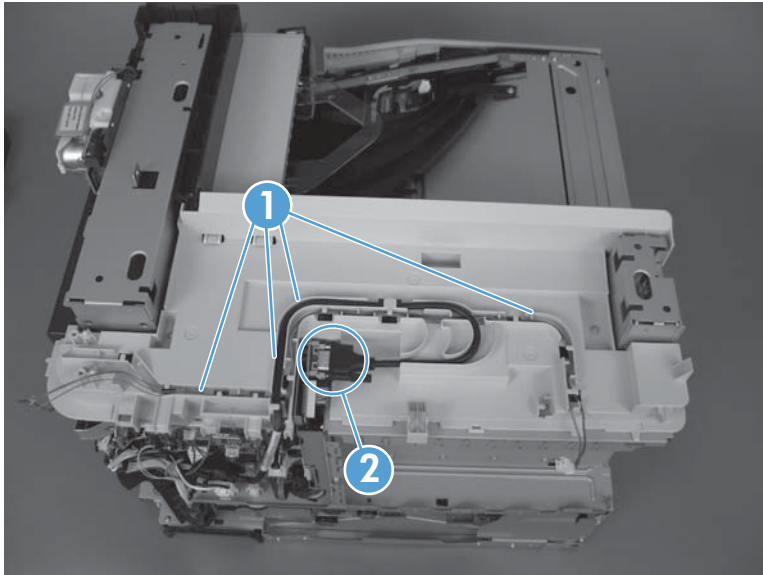
Before proceeding, remove the following components:

- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Rear cover. See [Rear cover on page 67](#).
- Delivery cover. See [Delivery cover on page 73](#).
- Front-top cover. See [Front-top cover on page 79](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).

Remove the rear-top cover

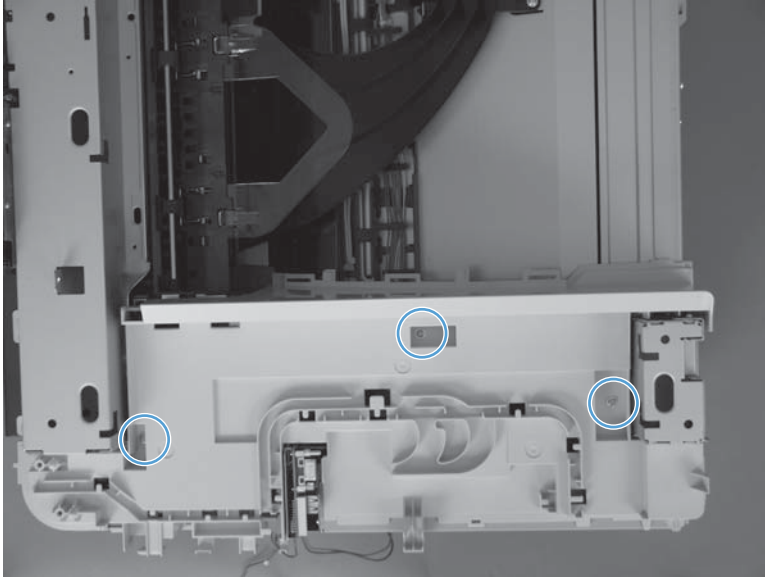
1. Release the wire harness from its retainers (callout 1), and disconnect the cable (callout 2).

Figure 1-110 Remove the rear-top cover (1 of 2)



2. Remove three screws, and then remove the cover.

Figure 1-111 Remove the rear-top cover (2 of 2)

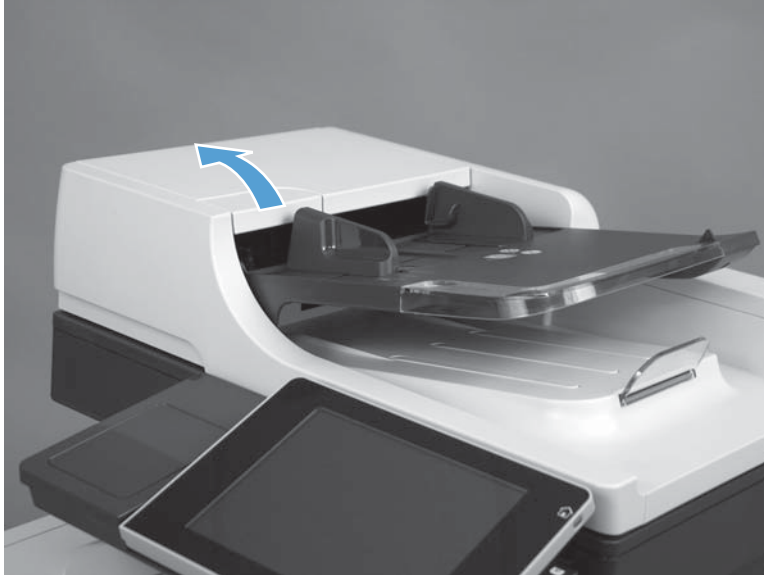


ADF assemblies and scanner

Cover front (ADF front cover)

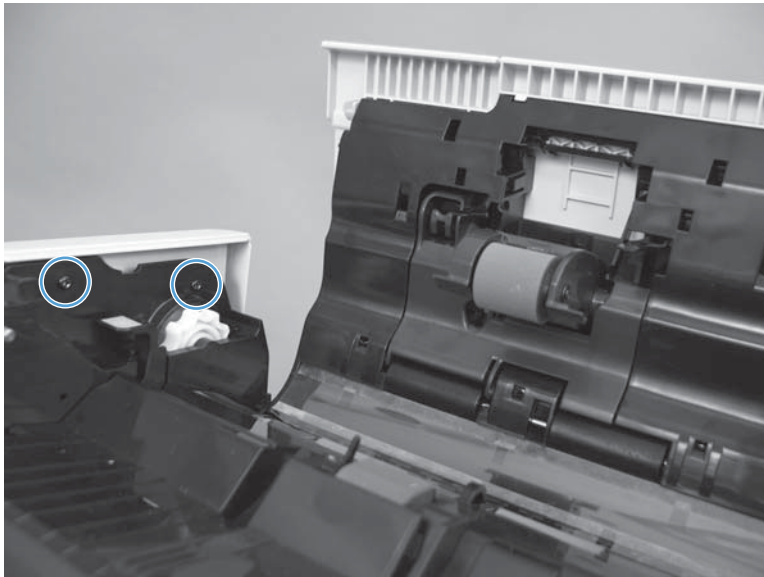
1. Open the jam-access cover.

Figure 1-112 Remove the ADF front cover (1 of 4)



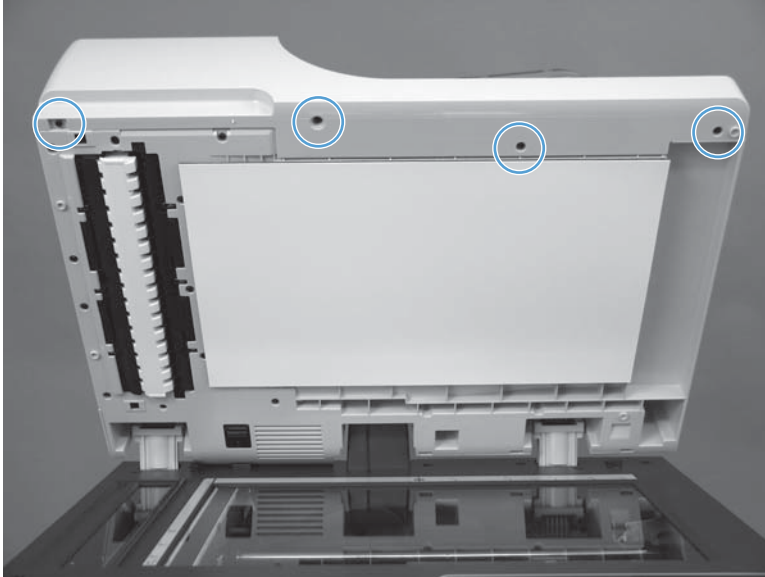
2. Remove two screws.

Figure 1-113 Remove the ADF front cover (2 of 4)



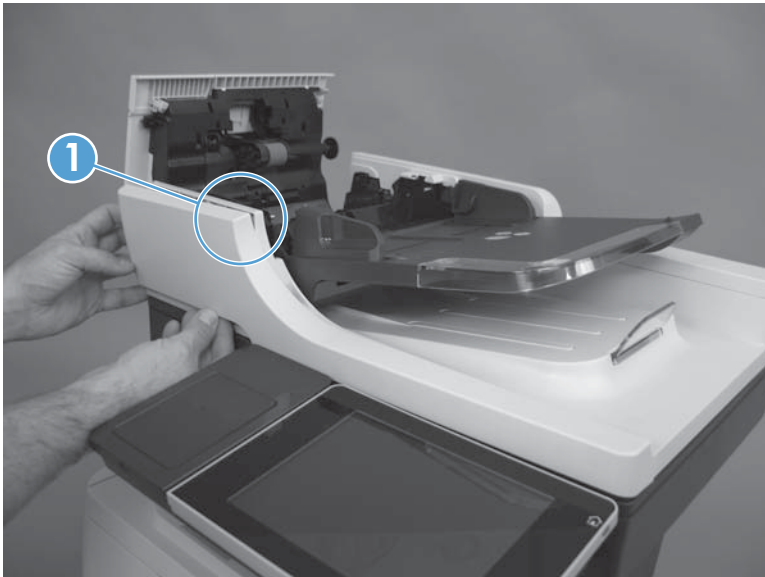
3. Open the ADF, and then remove four screws.

Figure 1-114 Remove the ADF front cover (3 of 4)



4. Release one tab (callout 1), and then remove the cover.

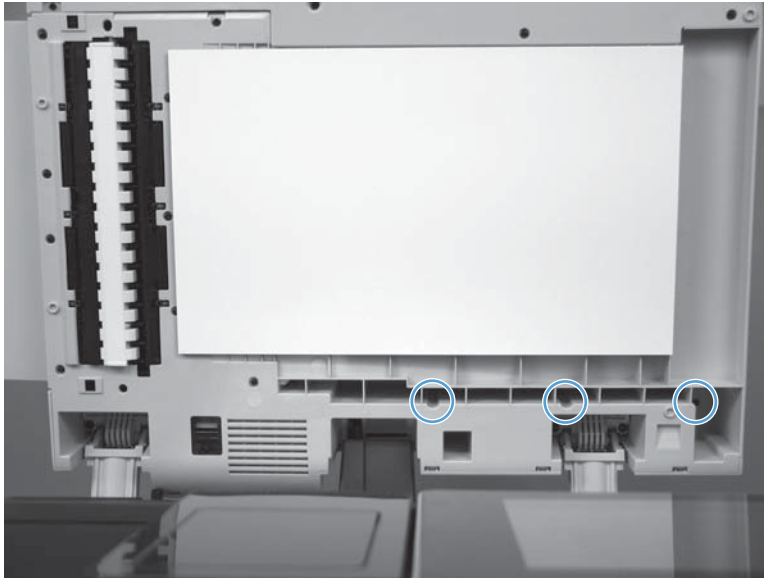
Figure 1-115 Remove the ADF front cover (4 of 4)



Cover rear (ADF rear cover)

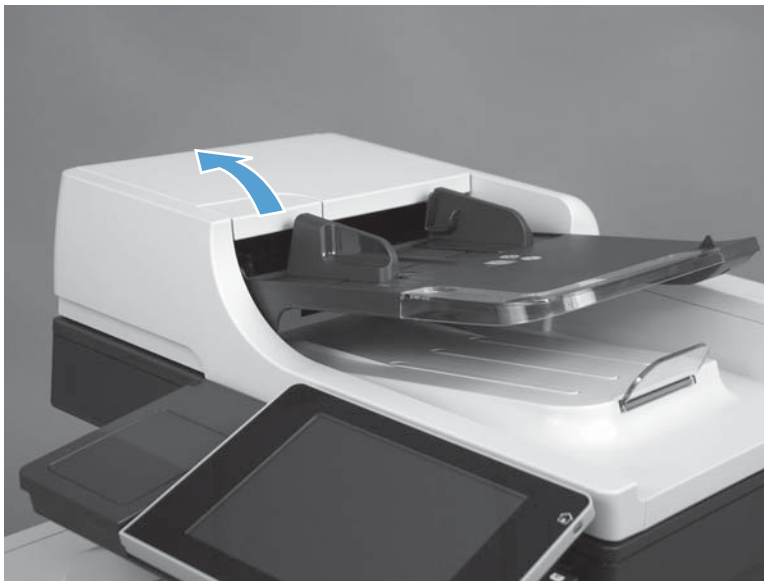
1. Open the ADF, and then remove three screws.

Figure 1-116 Remove the ADF rear cover (1 of 4)



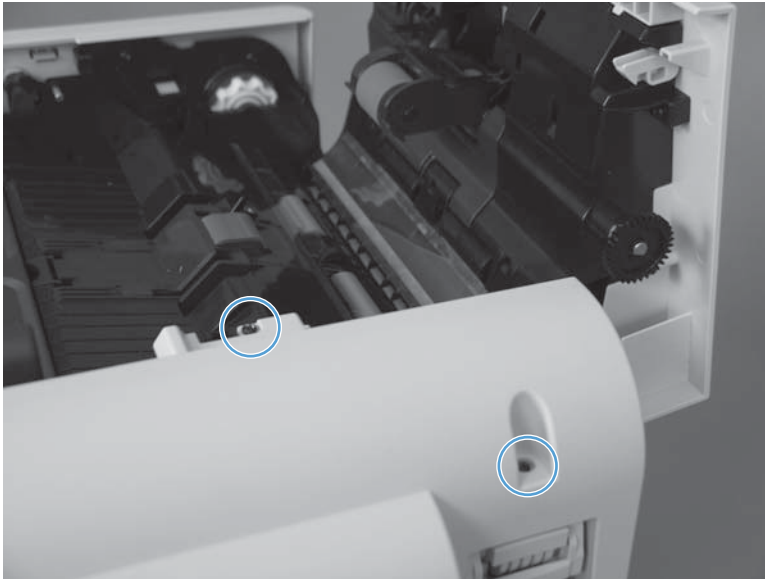
2. Close the ADF and then open the jam-access cover.

Figure 1-117 Remove the ADF rear cover (2 of 4)



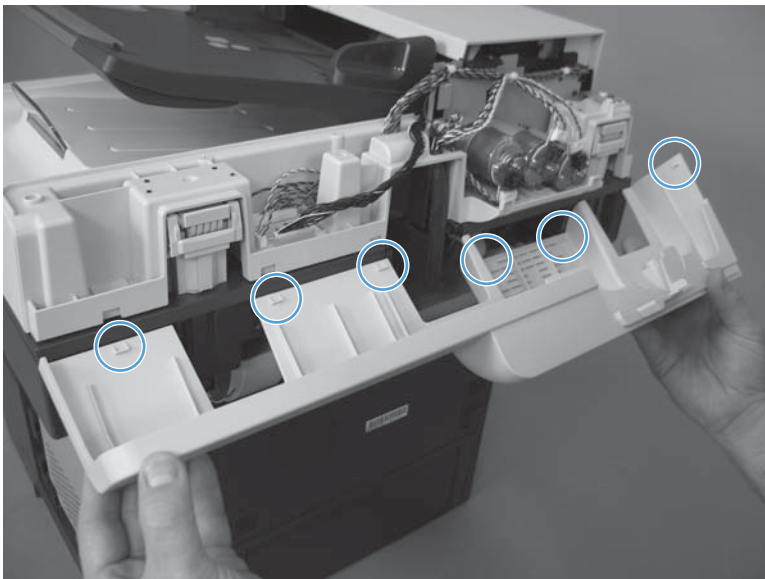
3. Remove two screws.

Figure 1-118 Remove the ADF rear cover (3 of 4)



4. Release six tabs and remove the cover.

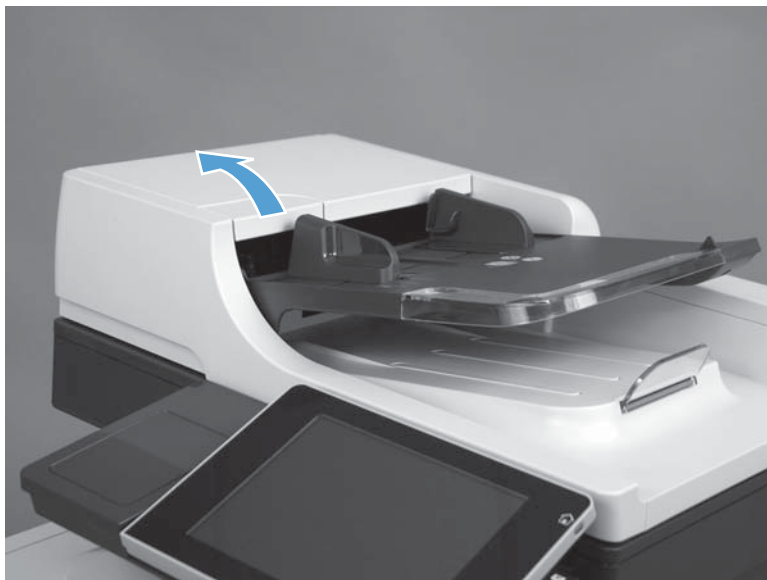
Figure 1-119 Remove the ADF rear cover (4 of 4)



Deskew mylar and separation mylar

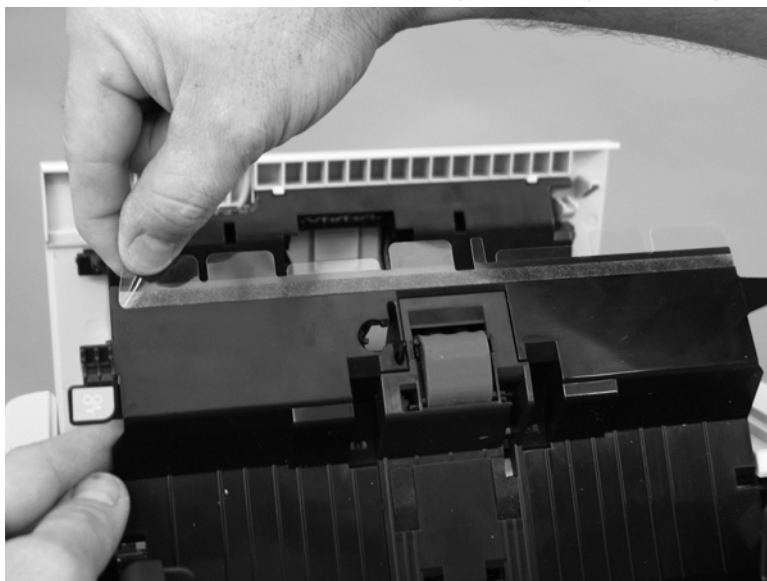
1. Open the jam-access cover.

Figure 1-120 Remove the deskew mylar and separation mylar (1 of 3)



2. Carefully peel off the deskew mylar

Figure 1-121 Remove the deskew mylar and separation mylar (2 of 3)



3. Carefully peel off the separation mylar.

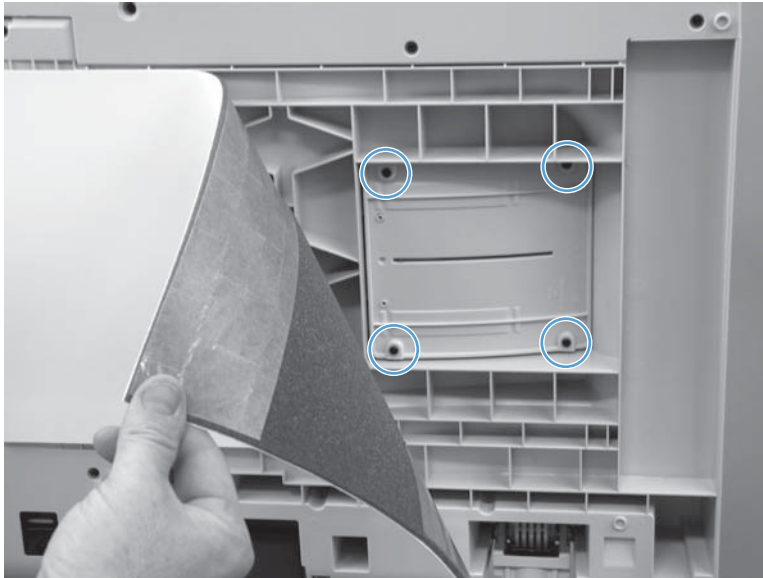
Figure 1-122 Remove the deskew mylar and separation mylar (3 of 3)



ADF tray extender

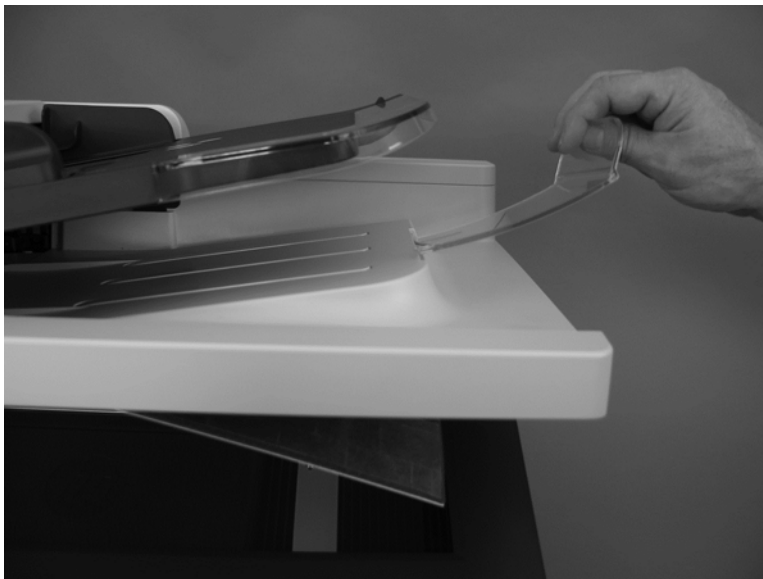
1. Peel the foam reflector back, and then remove four screws.

Figure 1-123 Remove the ADF tray extender (1 of 2)



2. Pull the ADF tray extender away from the product to remove.

Figure 1-124 Remove the ADF tray extender (2 of 2)

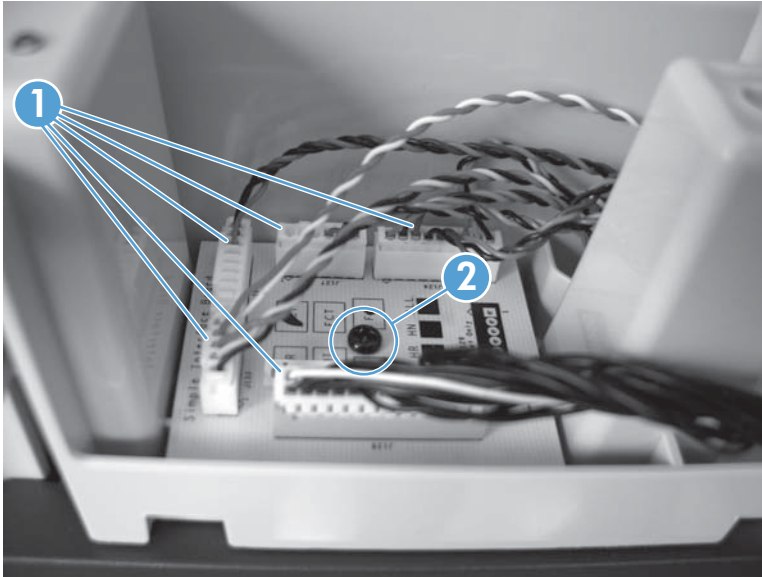


ADF PCA

⚠ WARNING!  ESD sensitive component.

1. Before proceeding, remove the following:
 - Cover rear (ADF rear cover). See [Cover rear \(ADF rear cover\) on page 85](#).
2. Disconnect five connectors (callout 1), remove one screw (callout 2), and then remove the PCA.

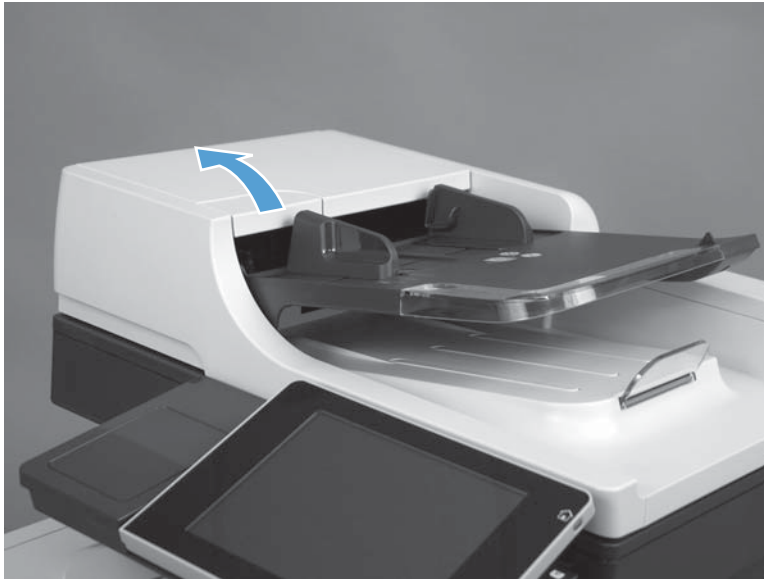
Figure 1-125 Remove the ADF PCA



ADF jam-access cover

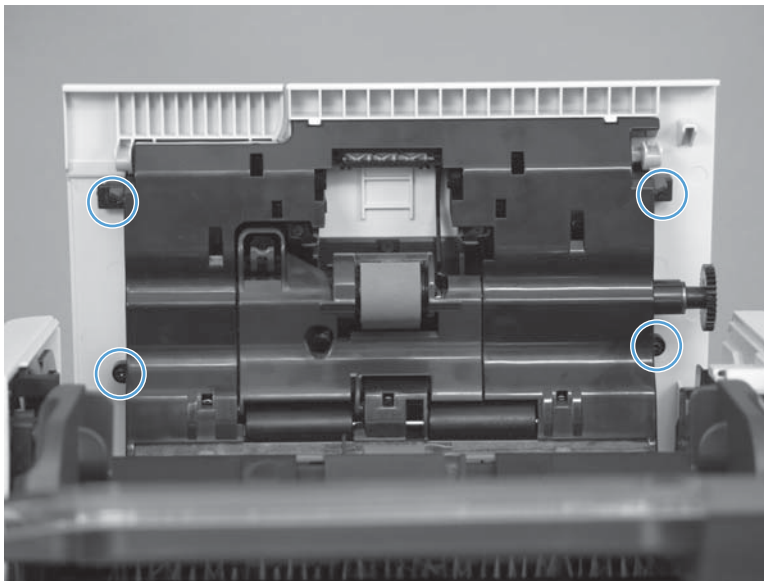
1. Open the ADF jam-access cover.

Figure 1-126 Remove the ADF jam-access cover (1 of 5)



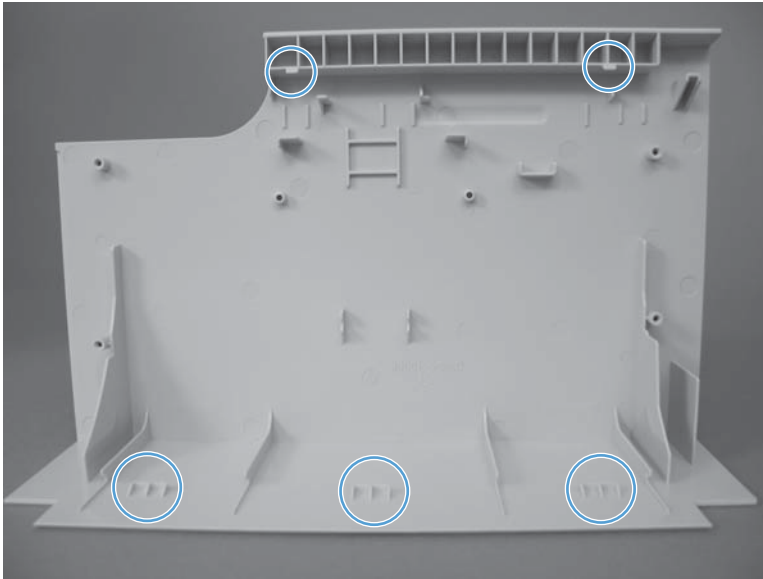
2. Remove four screws.

Figure 1-127 Remove the ADF jam-access cover (2 of 5)



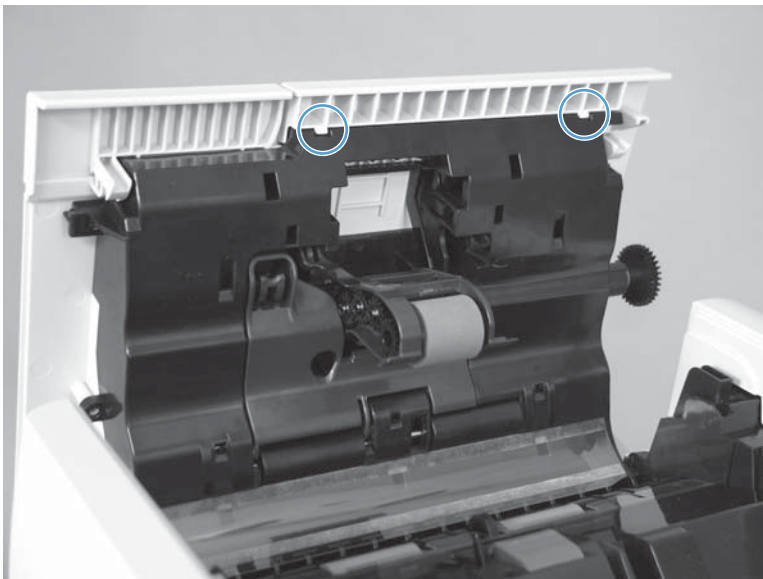
3. Before removing the cover, note the location of the tabs.

Figure 1-128 Remove the ADF jam-access cover (3 of 5)



4. Release two tabs.

Figure 1-129 Remove the ADF jam-access cover (4 of 5)



5. Close the ADF jam-access cover, and then release the remaining three tabs and remove the cover.

Figure 1-130 Remove the ADF jam-access cover (5 of 5)



ADF roller cover

1. Before proceeding, remove the following:
 - ADF jam-access cover. See [ADF jam-access cover on page 91](#).
2. Remove three springs.


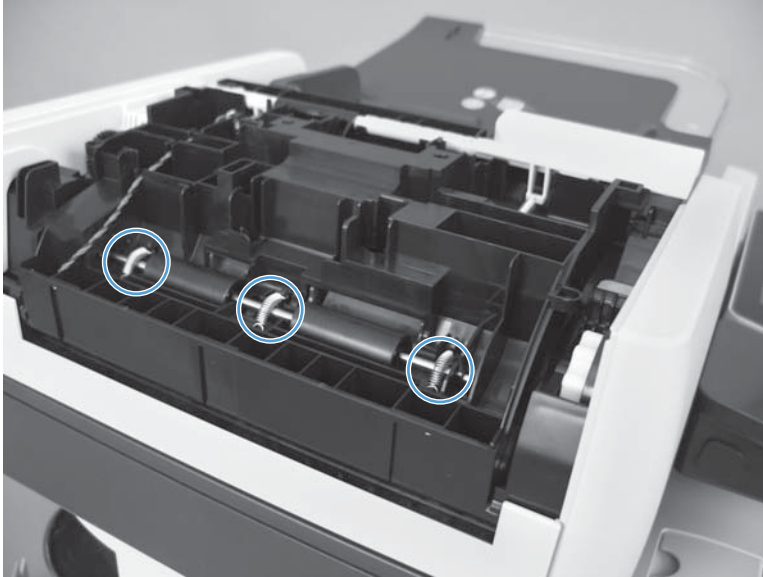
 **Reinstallation tip** Use needle nose pliers to reattach the spring. Attach the spring to the bottom hook first.

Figure 1-131 Remove the ADF roller cover (1 of 4)



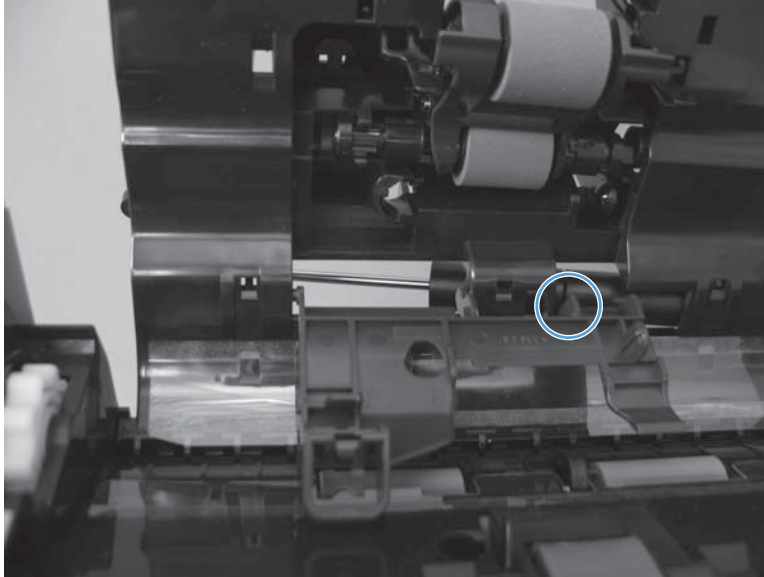
3. Lift and slide the rod.

Figure 1-132 Remove the ADF roller cover (2 of 4)



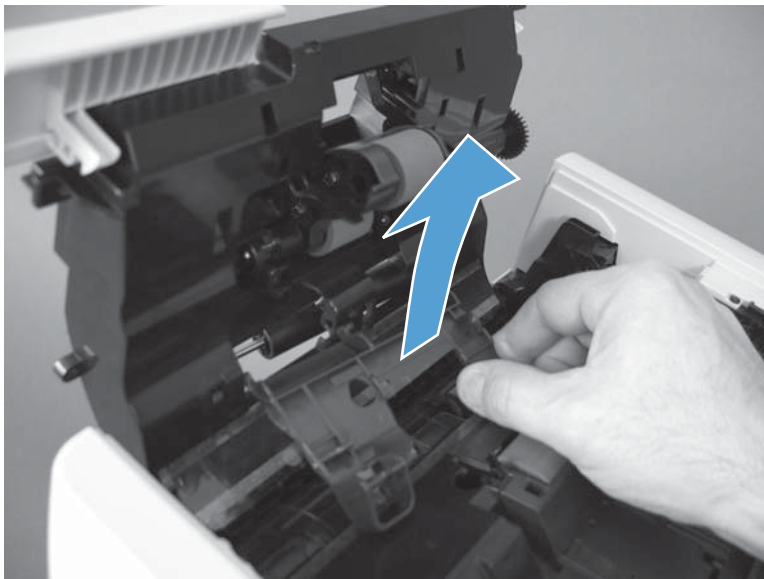
4. Open the jam-access cover. Release one hinge.

Figure 1-133 Remove the ADF roller cover (3 of 4)



5. Remove the ADF roller cover.

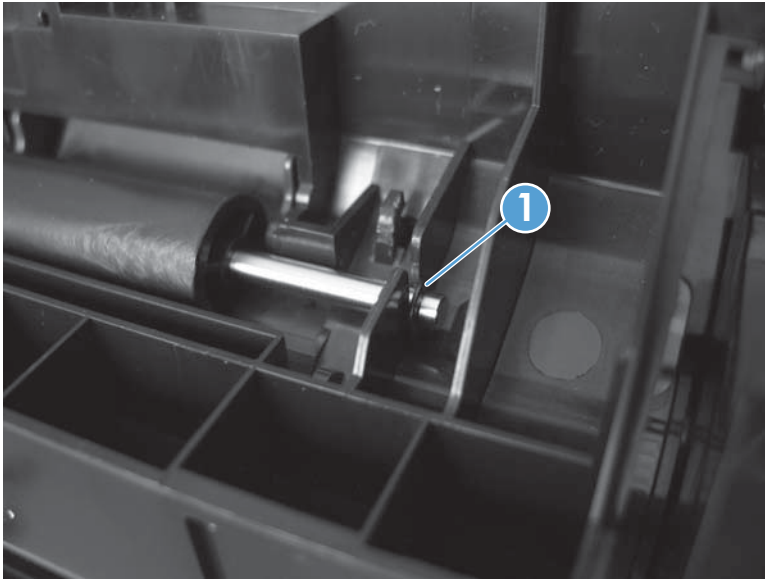
Figure 1-134 Remove the ADF roller cover (4 of 4)



Reinstall the ADF roller cover

- ▲ Make sure the rod for the roller is installed in the correct position (callout 1).


Figure 1-135 Reinstall the ADF roller cover



ADF whole unit kit

Before proceeding, remove the following:

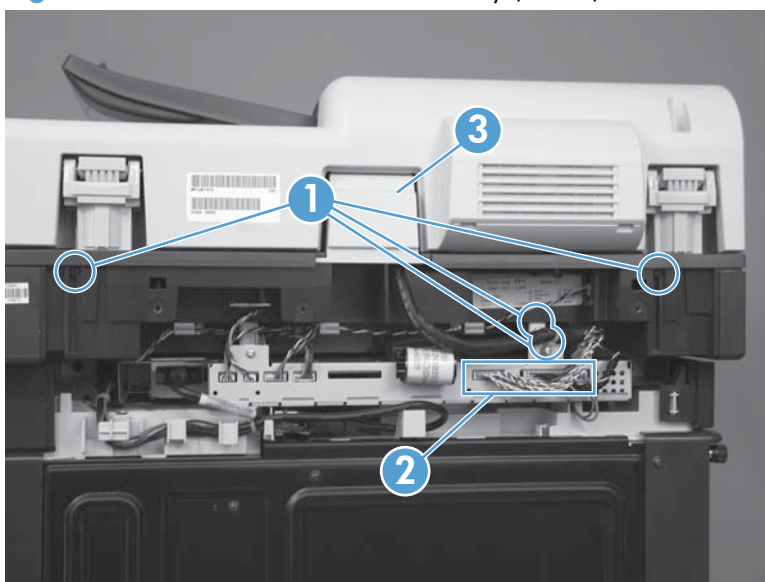
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Foam reflector kit. See [Foam reflector kit \(white ADF backing\) on page 38](#).

 **NOTE:** After removing the ADF assembly, place it on a clean, dry, and smooth surface.

You must replace the foam reflector kit (white ADF backing) and calibrate the scanner.

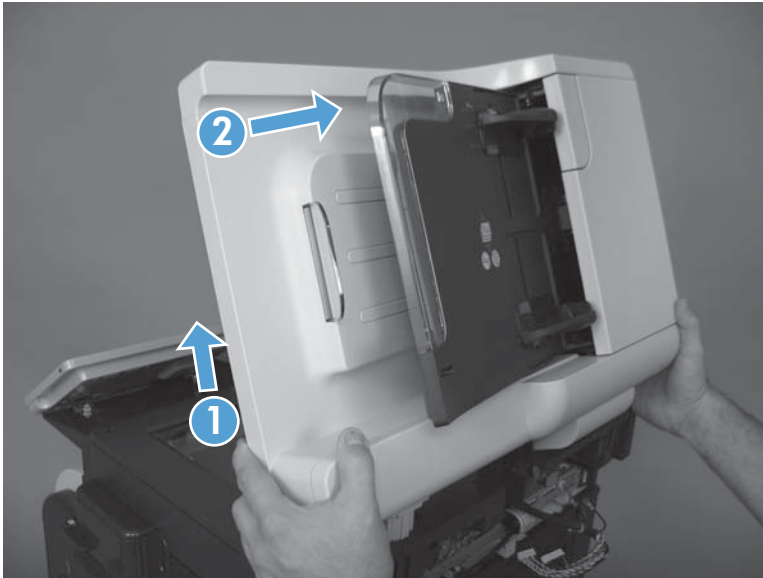
1. Remove four screws (callout 1), release two connectors (callout 2), and remove the ADF cable cover (callout 3).

Figure 1-136 Remove the ADF assembly (1 of 2)



2. Open the ADF. Lift the ADF straight up until it stops (callout 1), and then slightly tilt it (callout 2) toward the rear of the product. Continue lifting the ADF straight up to remove it.

Figure 1-137 Remove the ADF assembly (2 of 2)



Reinstall the ADF

Install ADF white backing on new ADF

- ▲ If a replacement ADF, image scanner, or both assemblies are installed, you must install a replacement foam reflector kit. See [Foam reflector kit \(white ADF backing\) on page 38](#).

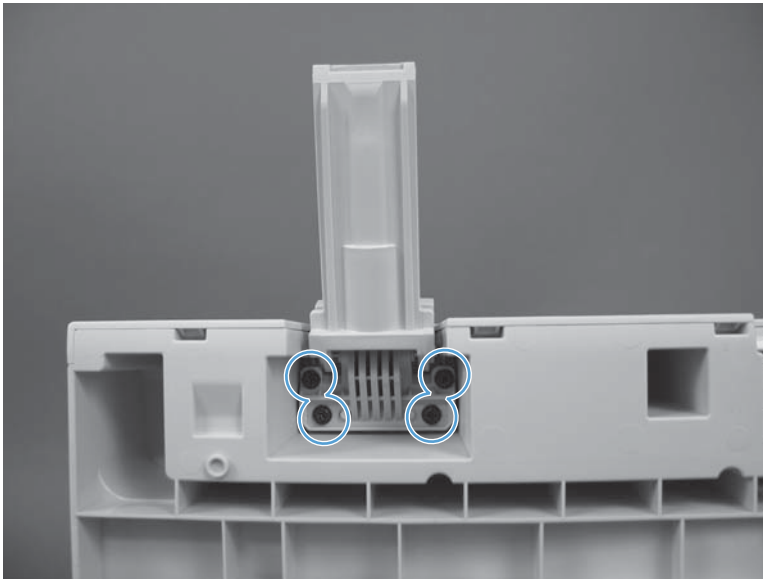
Calibrate a replacement ADF assembly

1. On the control-panel Home screen, scroll to and touch [Device Maintenance](#).
2. Touch [Calibration/Cleaning](#).
3. Touch [Calibrate Scanner](#).
4. Follow the instructions on the control-panel display.

ADF hinge assy

1. Before proceeding, remove the following:
 - Rear-upper cover. See [Rear-upper cover on page 64](#).
 - Foam reflector kit (white ADF backing). See [Foam reflector kit \(white ADF backing\) on page 38](#).
 - ADF whole unit kit. See [ADF whole unit kit on page 97](#).
2. Remove four screws and the ADF hinge assembly.

Figure 1-138 Remove the ADF hinge assembly



Scanner-control board (SCB)

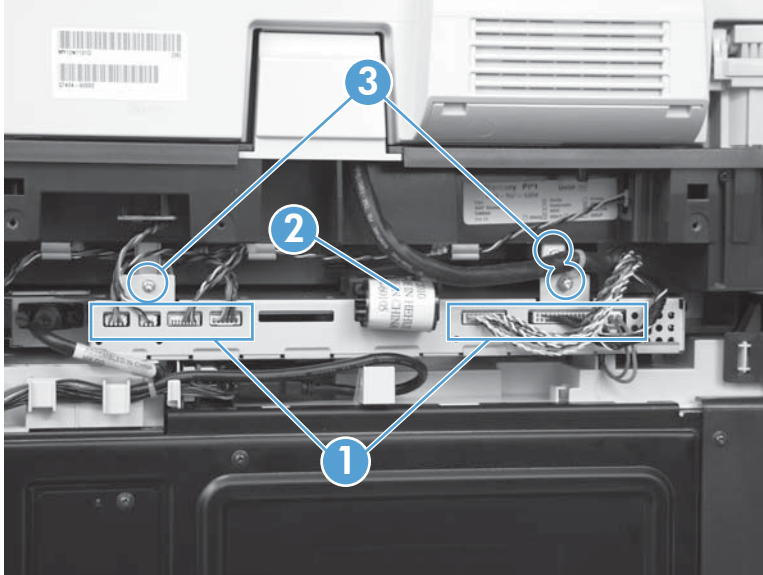
Before proceeding, remove the following components:

- Rear-upper cover. See [Rear-upper cover on page 64](#).

Remove the SCB

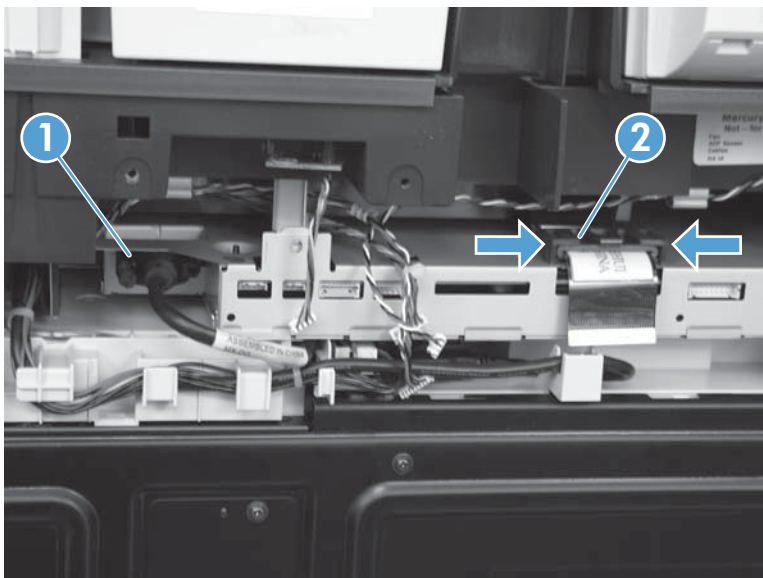
1. Release seven connectors (callout 1) and one FFC (callout 2), and three screws (callout 3).

Figure 1-139 Remove the SCB (1 of 2)



2. Remove one screw and the scanner cable (callout 1). Release two tabs and then remove the bracket holding the ferrite core (callout 2). Remove the SCB by pulling it toward the rear of the product. Be careful to avoid damage to the cables and connectors.

Figure 1-140 Remove the SCB (2 of 2)

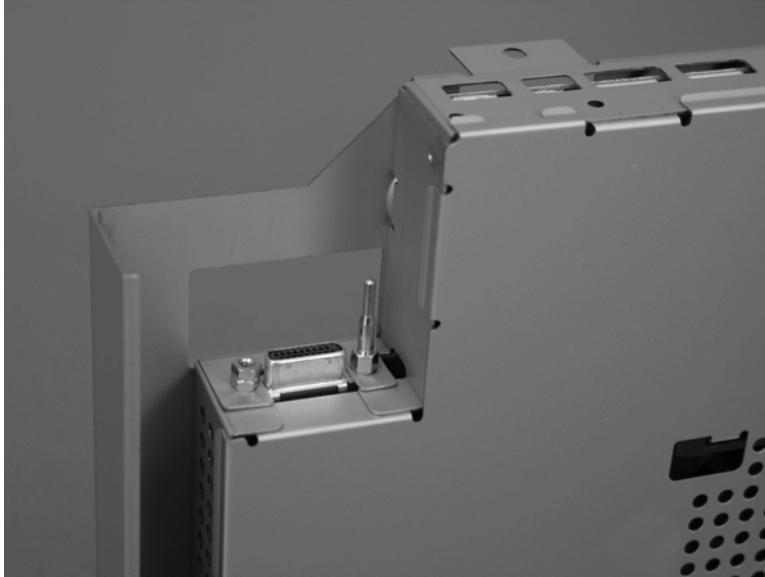


Reinstall the SCB

When reinstalling the SCB, note the locator pin for the scanner cable. It might be easier to install the scanner cable with a screw driver.

⚠ WARNING! Do not over tighten the screw when installing the cable. Over tightening the screw can cause the nut to shear off of the SCB cage.

Figure 1-141 Reinstalling the SCB (1 of 2)



⚠ CAUTION: Reinstall the FFC in the lower FFC connector position.

Figure 1-142 Reinstalling the SCB (2 of 2)



Image scanner whole unit kit

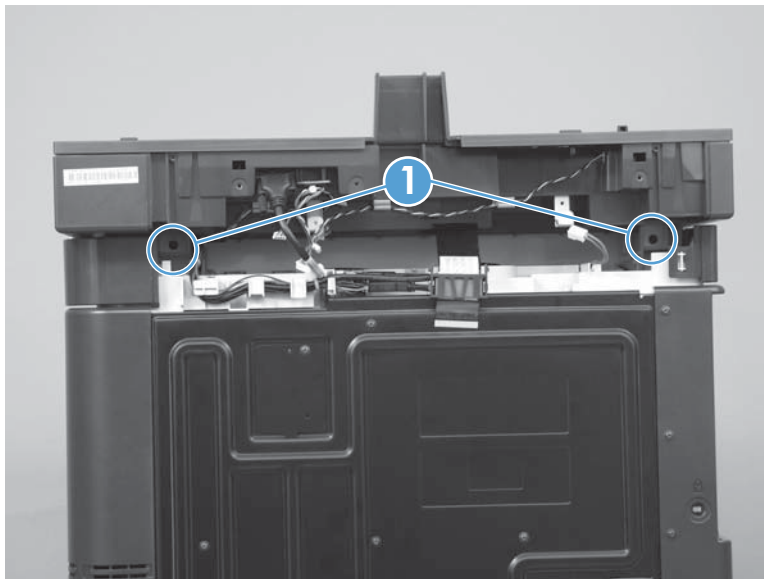
Before proceeding, remove the following components:

- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).

Remove the scanner assembly

1. Remove two screws (callout 1).

Figure 1-143 Remove the scanner assembly (1 of 6)



2. Remove one screw on the right side of the scanner.

Figure 1-144 Remove the scanner assembly (2 of 6)



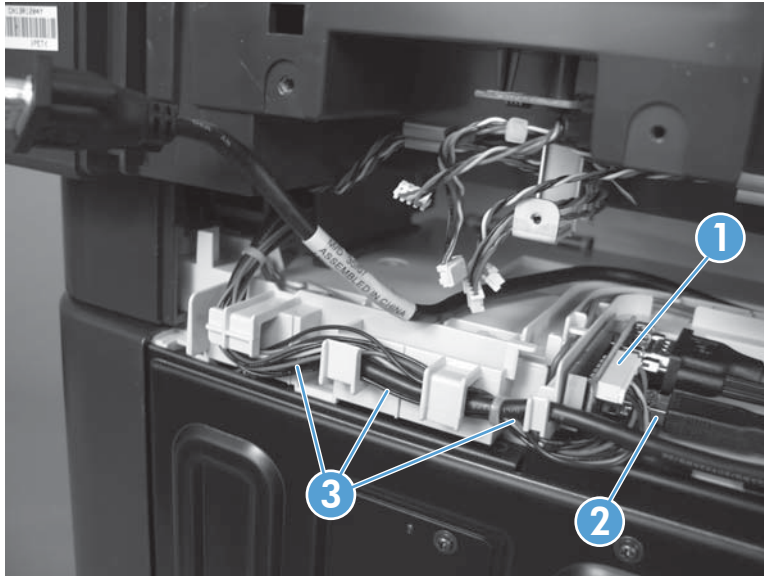
3. Remove one screw on the left side of the scanner.

Figure 1-145 Remove the scanner assembly (3 of 6)



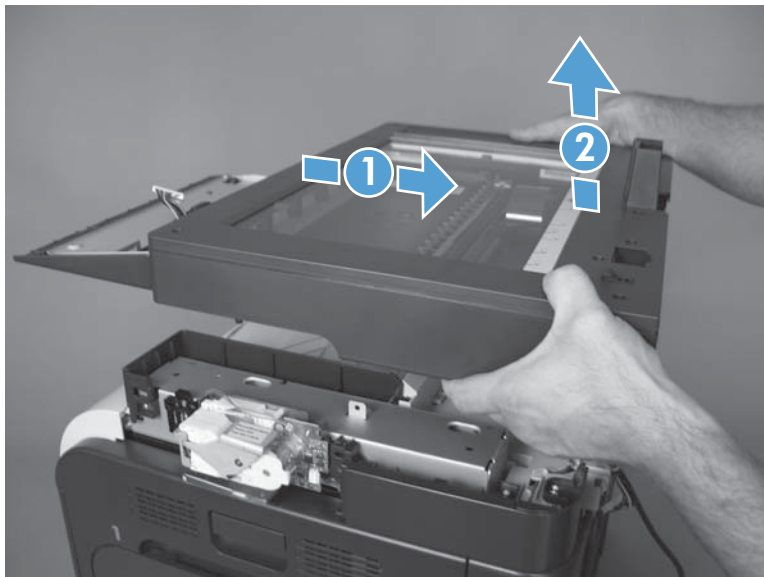
4. Disconnect the control panel cable (callout 1) and the USB cable (callout 2). Release the cables from the retainers (callout 3).

Figure 1-146 Remove the scanner assembly (4 of 6)



5. Slide the scanner toward the back of the product (callout 1) and then lift (callout 2) to remove it.

Figure 1-147 Remove the scanner assembly (5 of 6)



Reinstall the scanner


Install foam reflector kit (white backing) on the new ADF

- ▲ If a replacement ADF, image scanner, or both assemblies are installed, you must install a replacement foam reflector kit. See [Foam reflector kit \(white ADF backing\) on page 38](#).

Calibrate the scanner

1. On the control-panel Home screen, scroll to and touch [Device Maintenance](#).
2. Touch [Calibration/Cleaning](#).
3. Touch [Calibrate Scanner](#).
4. Follow the instructions on the control-panel display.

Internal assemblies

 **TIP:** For clarity, some photos in this chapter show components removed that would not be removed to service the product. If necessary, remove the components listed at the beginning of a procedure before proceeding to service the product.

Stapler assembly

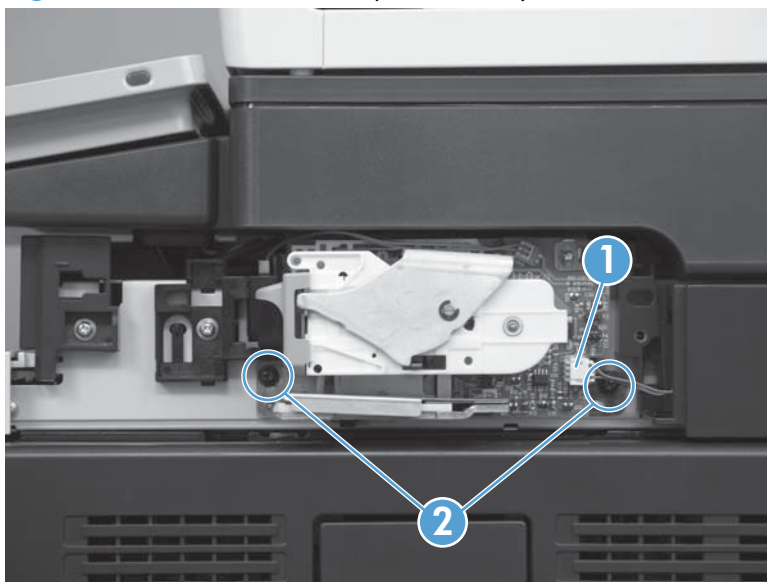
Before proceeding, remove the following components:

- Stapler cover. See [Stapler cover on page 54](#).

Remove the stapler assembly

- ▲ Disconnect one connector (callout 1), remove two screws (callout 2), and then remove the stapler assembly.

Figure 1-148 Remove the stapler assembly



Interconnect board (ICB)

WARNING! Do not remove the ICB from a product and then install it into a **different** product. Failure to follow this warning will result in severe damage to that product and cause it to be unusable. HP recommends that if you remove and replace the ICB, you should destroy the discarded ICB so that it can not accidentally be installed in a different product.

Before proceeding, remove the following components:

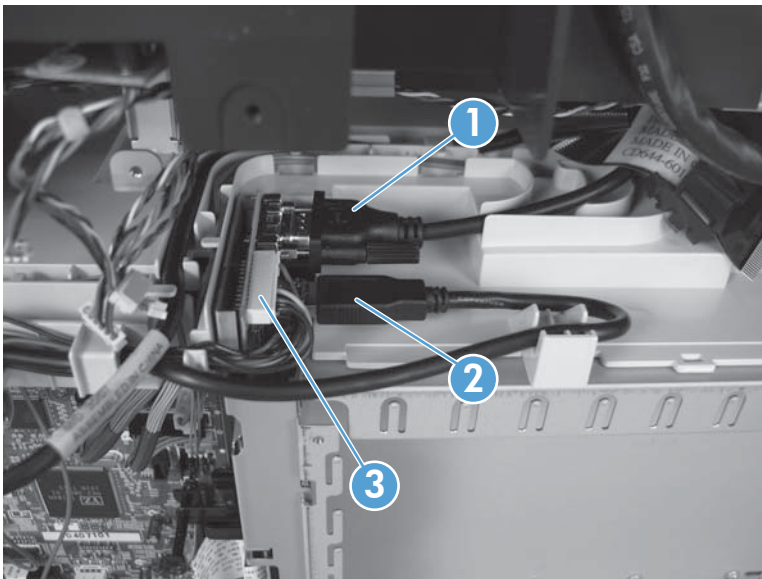
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).

Remove the ICB

NOTE: To locate DC controller connector locations, see [DC controller PCA on page 8](#).

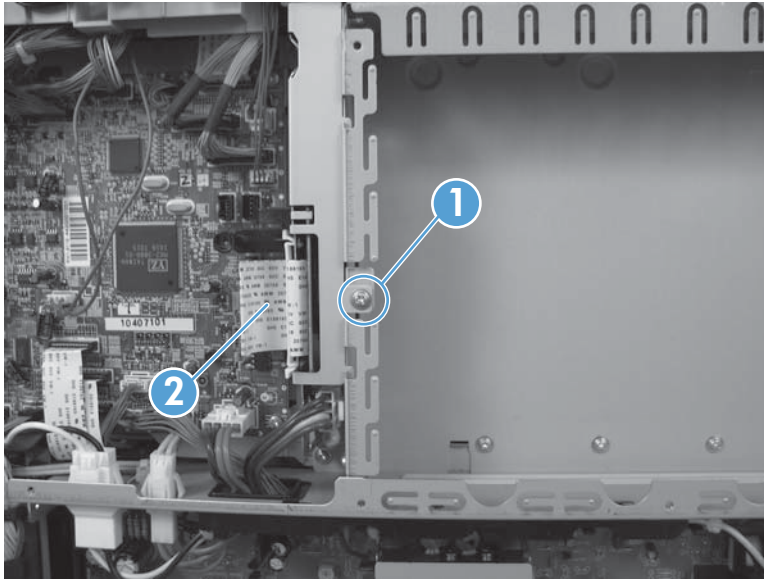
1. Disconnect the scanner cable (callout 1), the USB cable (callout 2), and the control panel connector (callout 3).

Figure 1-149 Remove the ICB (1 of 3)



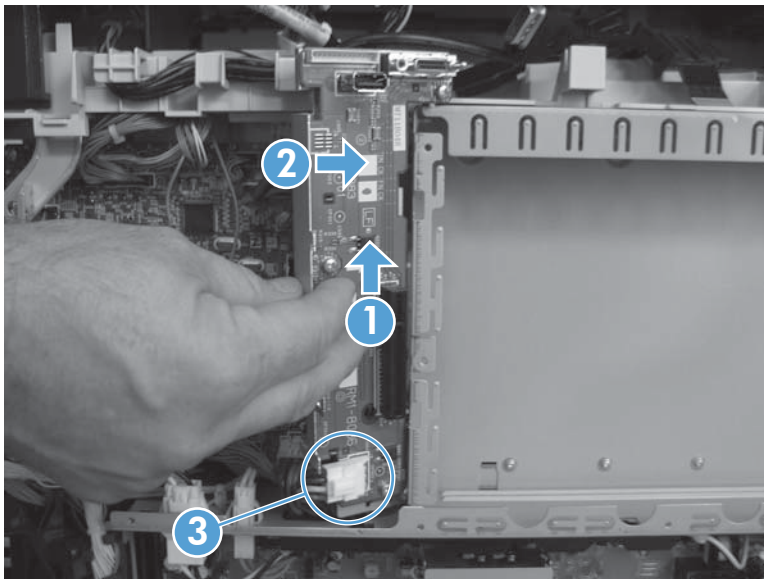
2. Remove one screw (callout 1) and disconnect one FFC (callout 2).

Figure 1-150 Remove the ICB (2 of 3)



3. Slide the ICB up (callout 1), and then carefully rotate the ICB (callout 2). Disconnect one connector (callout 3) and remove the ICB.

Figure 1-151 Remove the ICB (3 of 3)




DC controller PCA and tray


Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).

Remove the DC controller PCA and tray

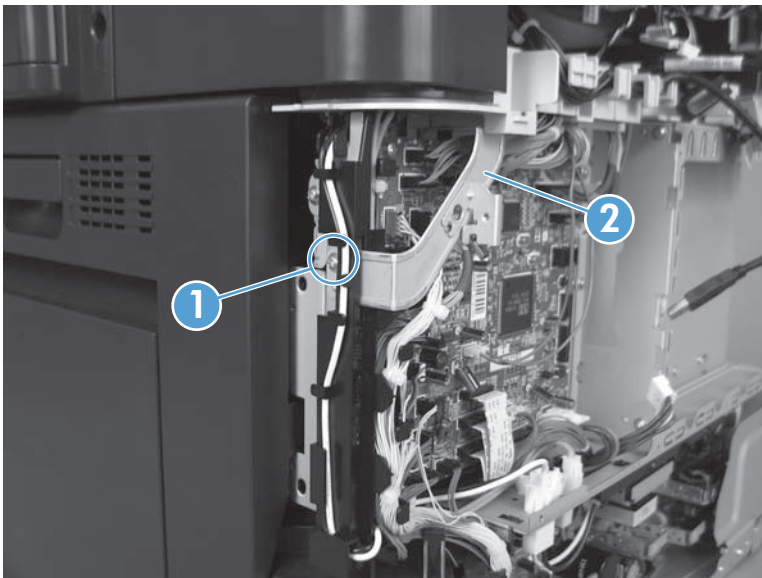
 **CAUTION:**  ESD-sensitive part.

 **TIP:** To access components behind the DC controller PCA, remove the PCA and the sheet-metal tray together. Disconnect all of the connectors on the PCA, and then remove five screws and the bracket, see [Figure 1-152 Remove the DC controller PCA and tray \(1 of 4\) on page 110](#) and [Figure 1-155 Remove the DC controller PCA and tray \(4 of 4\) on page 112](#).

 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

1. Remove one screw (callout 1), and then remove the sheet-metal bracket (callout 2).

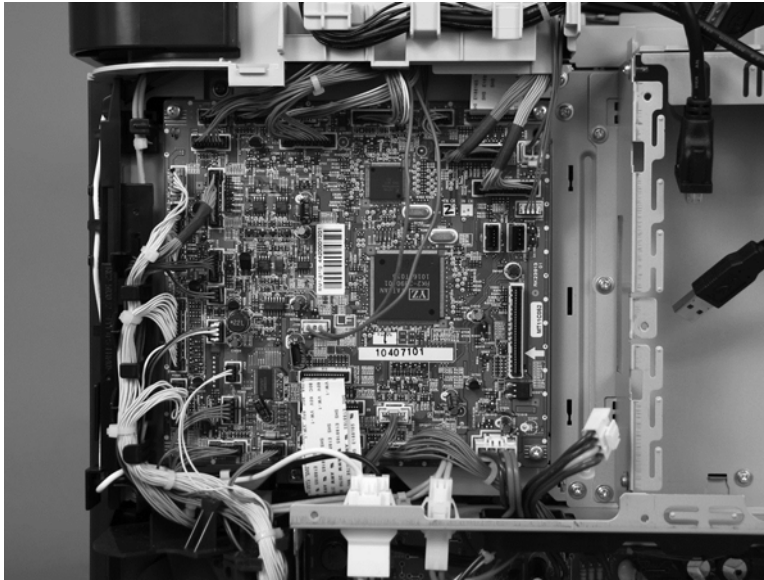
Figure 1-152 Remove the DC controller PCA and tray (1 of 4)



2. Disconnect all the connectors.

 **Reinstallation tip** The connector locations J133 and J134 are not used.

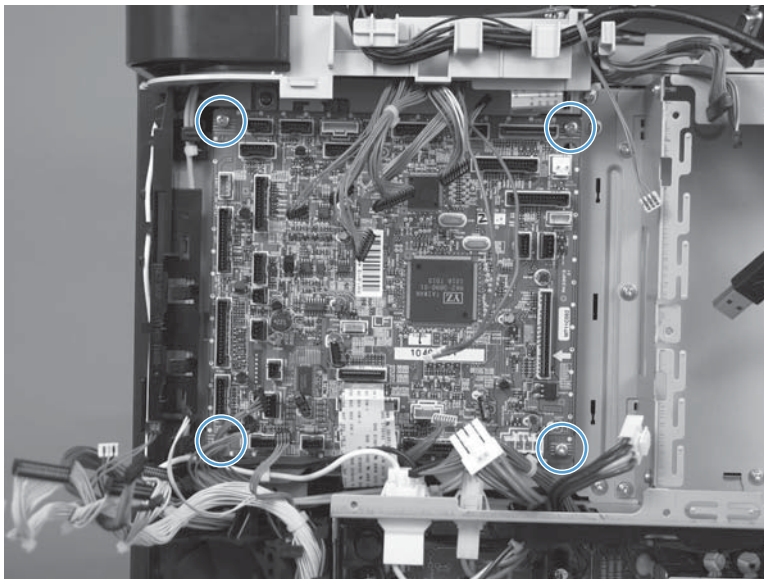
Figure 1-153 Remove the DC controller PCA and tray (2 of 4)



3. Remove four screws, and then remove the DC controller PCA.

 **NOTE:** If removing the PCA with the sheet metal tray, skip this step and go to step 4.

Figure 1-154 Remove the DC controller PCA and tray (3 of 4)



4. If necessary, remove three screws (callout 1) and the sheet metal tray.


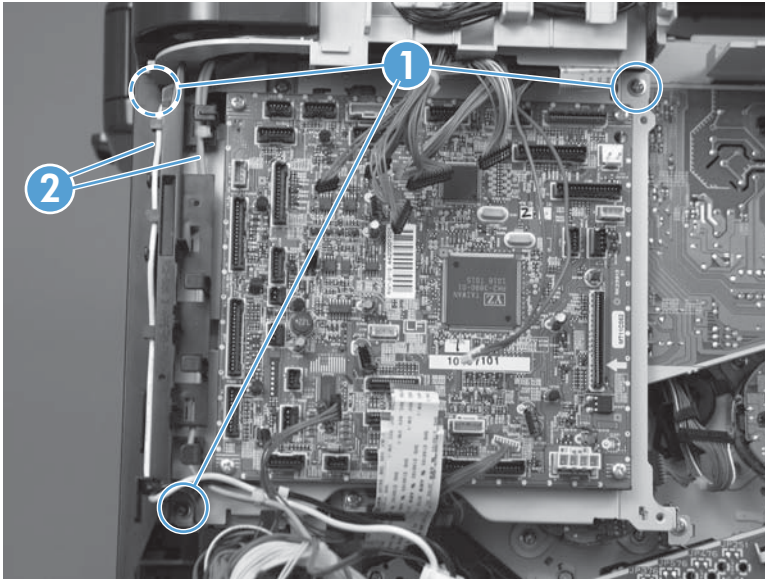
 **NOTE:** Correctly install the cables in the cable guide (callout 2).


Figure 1-155 Remove the DC controller PCA and tray (4 of 4)



Low-voltage power supply (LVPS)


Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).

 **NOTE:** If you are removing the power supply for internal product access, it is recommended that you leave the ICB installed on the power supply assembly.

Remove the LVPS

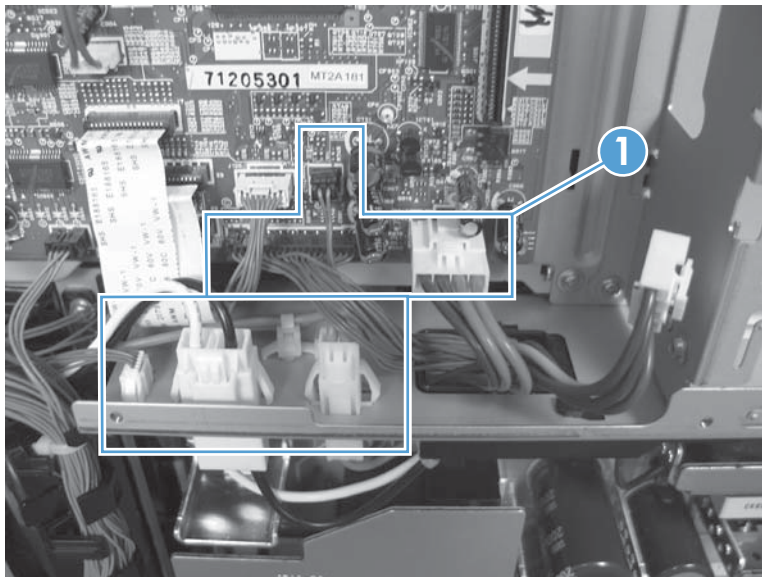
 **CAUTION:**  ESD-sensitive part.

 **NOTE:** The formatter cage is attached to the LVPS. Both components are removed as an assembly, and then the formatter cage is removed from the LVPS.

1. Disconnect six connectors (callout 1; J100, J101, J143 on the DC controller PCA).

 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-156 Remove the LVPS (1 of 8)



2. Push in on the locking tab to release the retainer (callout 2), and then separate the retainer from the assembly.


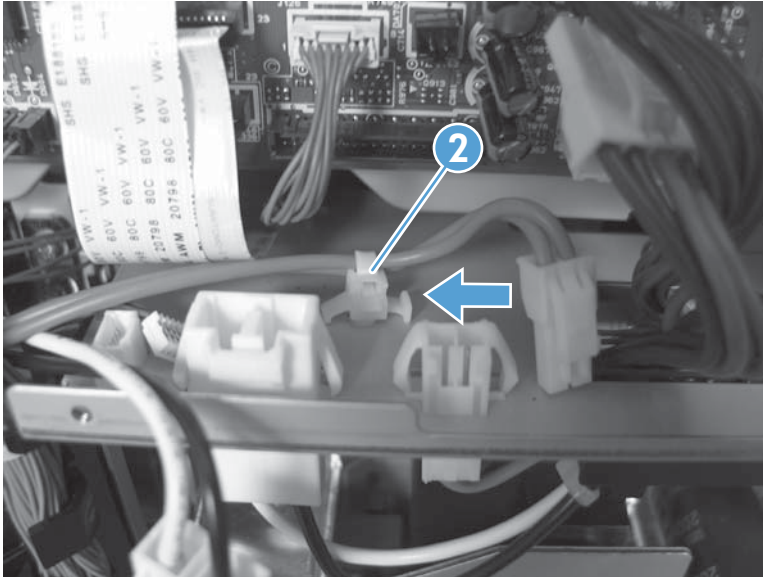
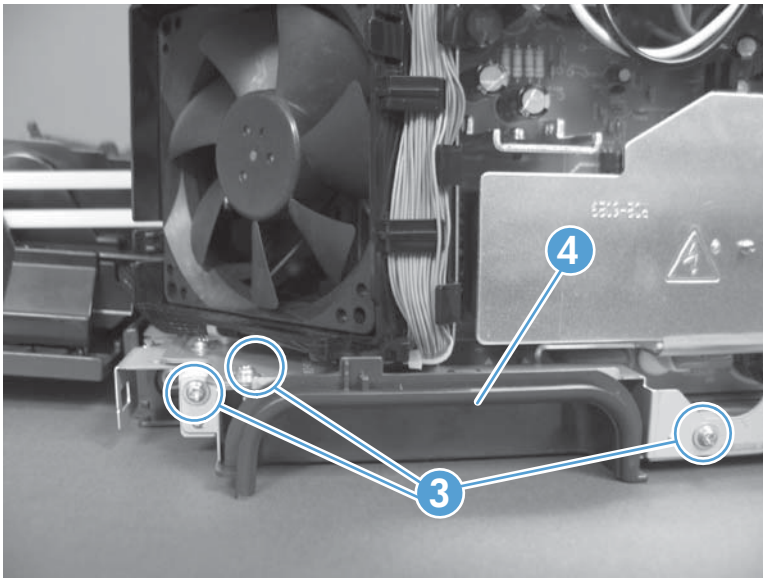
 **NOTE:** The retainer remains attached to the wire harness, and is disengaged from the assembly.

Figure 1-157 Remove the LVPS (2 of 8)



3. Remove three screws (callout 3), and then remove the handle (callout 4).

Figure 1-158 Remove the LVPS (3 of 8)



4. Remove five screws.


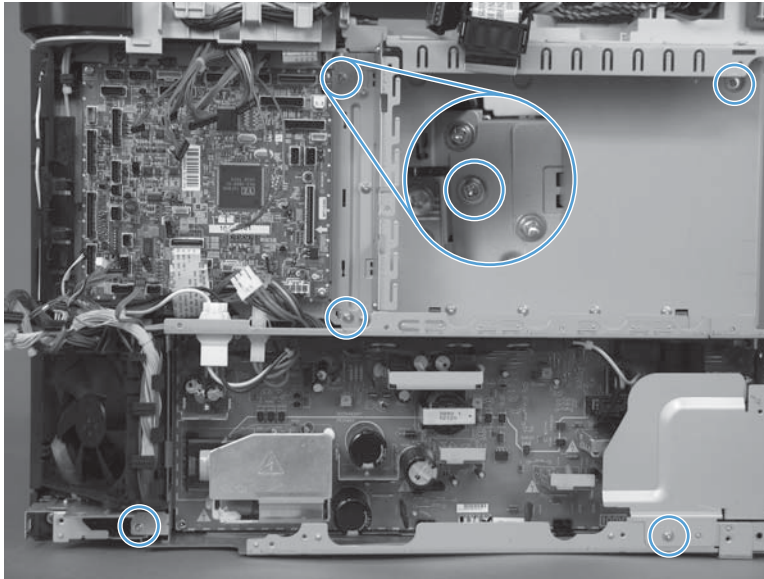
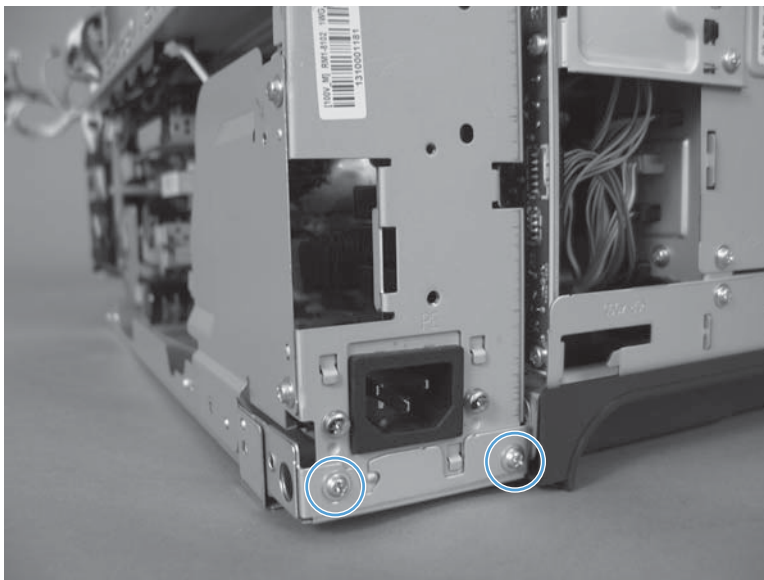
 **NOTE:** The illustration below shows the ICB removed.

Figure 1-159 Remove the LVPS (4 of 8)



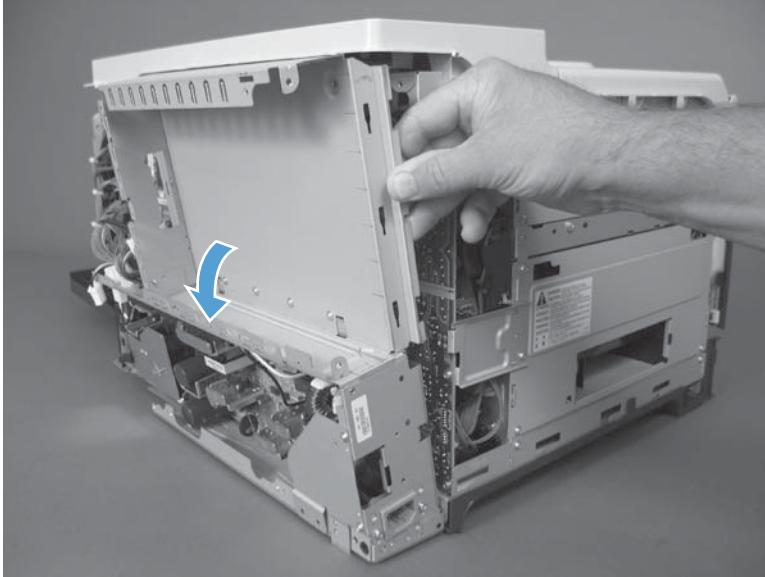
5. Remove two screws.

Figure 1-160 Remove the LVPS (5 of 8)



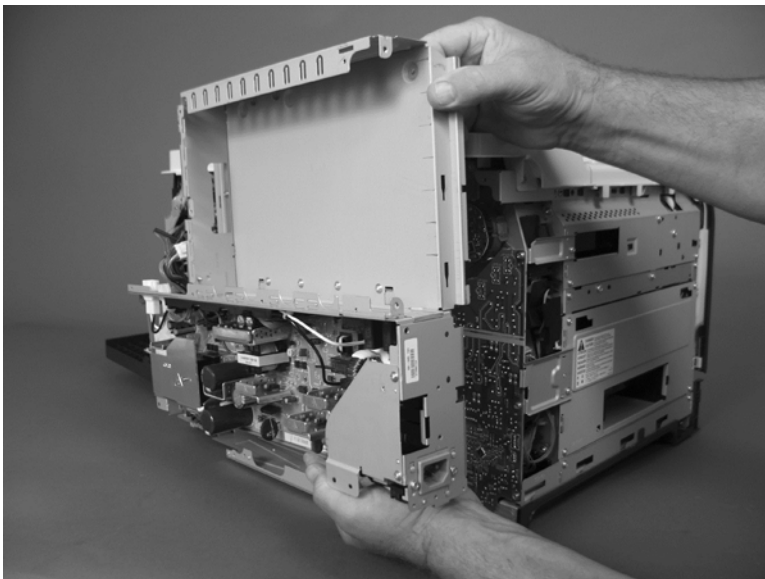
6. Rotate the formatter cage away from the top of the product.

Figure 1-161 Remove the LVPS (6 of 8)



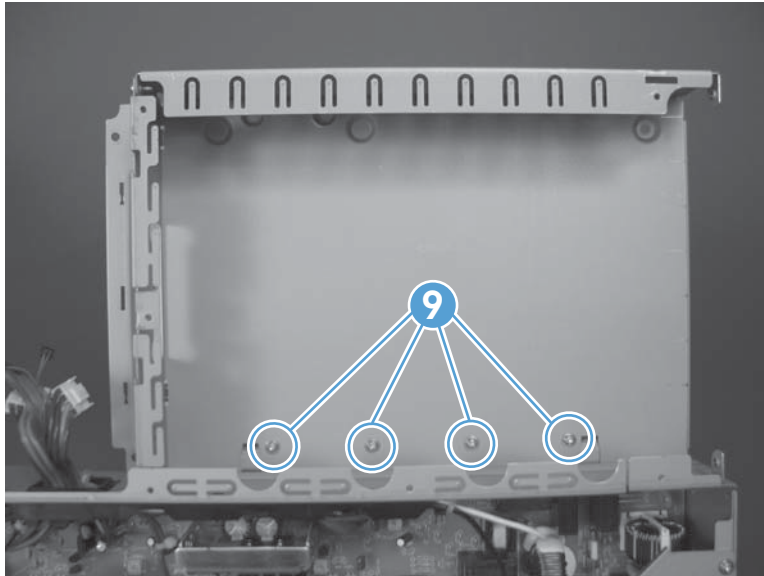
7. Remove the assembly.

Figure 1-162 Remove the LVPS (7 of 8)



8. Remove four screws (callout 9), and then separate the formatter cage from the low-voltage power supply.

Figure 1-163 Remove the LVPS (8 of 8)



Delivery fan, cartridge fan, and environmental sensor

Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Left cover. See [Left cover on page 61](#).

Remove the delivery fan, cartridge fan, and environmental sensor

1. Remove five screws (callout 1), and then remove the sheet-metal plate (callout 2).


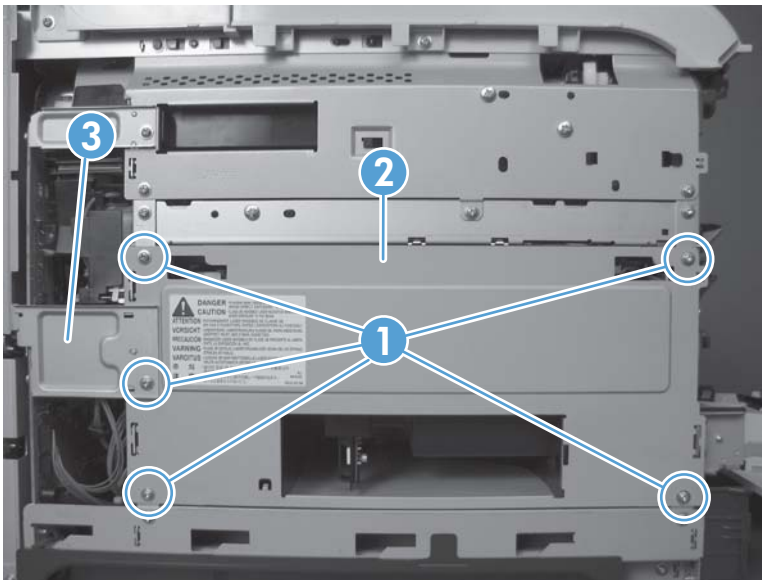
 **NOTE:** Release the small sheet-metal plate (callout 3) to allow access to the larger sheet-metal plate behind it. Leave the smaller plate attached to the chassis.

Figure 1-164 Remove the delivery fan, cartridge fan, and environmental sensor (1 of 9)



2. Disconnect five connectors (callout 3).


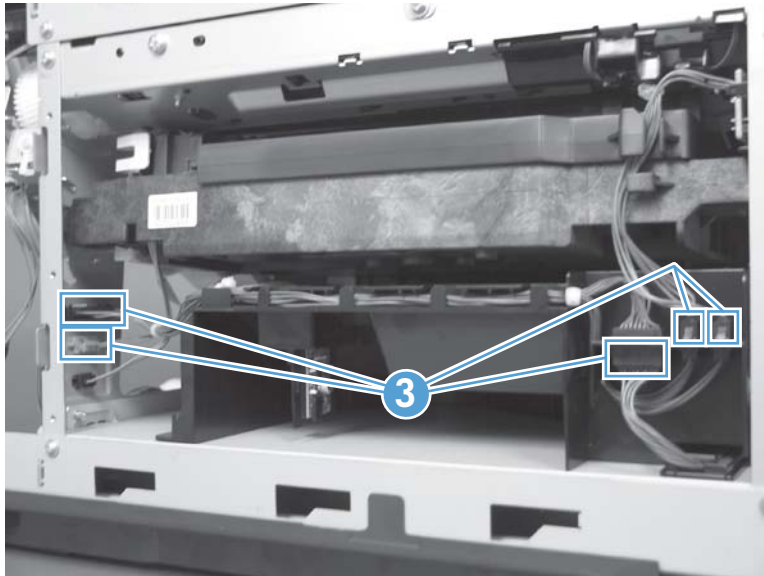
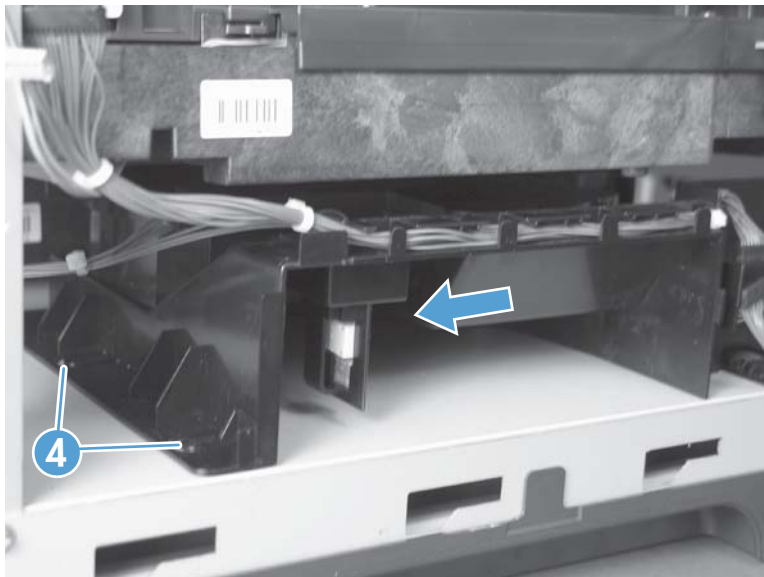
 **NOTE:** Disconnect the larger connector on the right side from the bottom. Disconnect the two smaller connectors on the right side from the top.

Figure 1-165 Remove the delivery fan, cartridge fan, and environmental sensor (2 of 9)



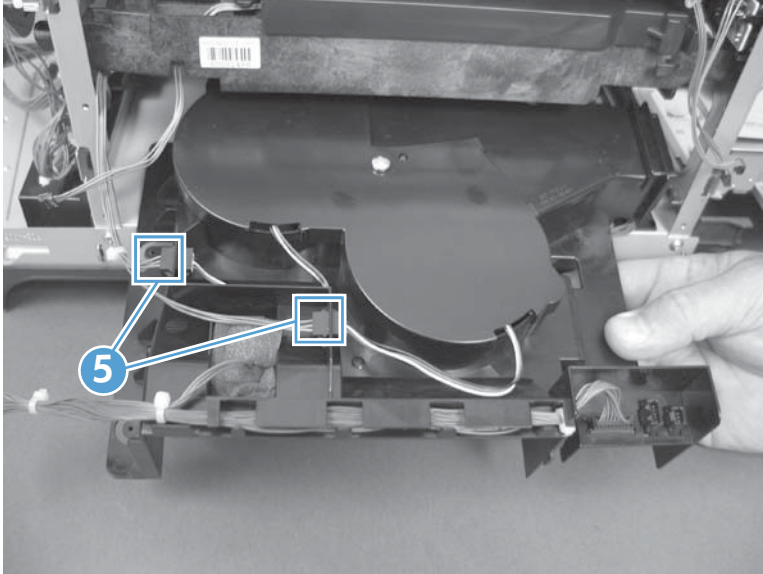
3. Release two tabs (callout 4), and then slide the delivery-fan and cartridge-fan assembly toward the power-supply side of the product to release it.

Figure 1-166 Remove the delivery fan, cartridge fan, and environmental sensor (3 of 9)



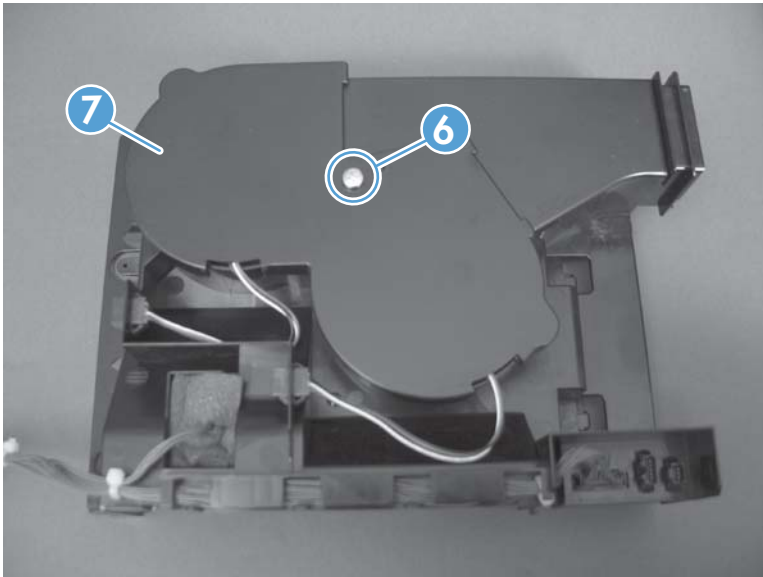
4. Pull the assembly slightly out of the product, disconnect two connectors (callout 5), and then remove the assembly.

Figure 1-167 Remove the delivery fan, cartridge fan, and environmental sensor (4 of 9)



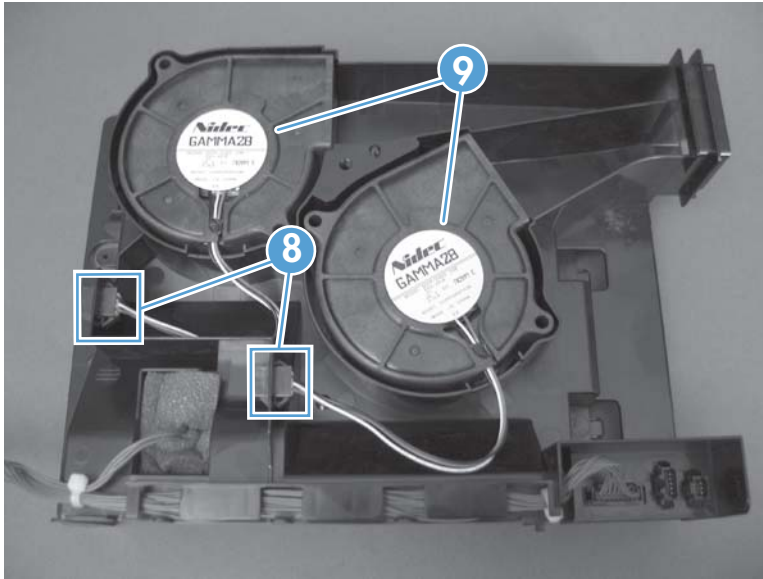
5. Remove one screw (callout 6), and then remove the cover (callout 7).

Figure 1-168 Remove the delivery fan, cartridge fan, and environmental sensor (5 of 9)



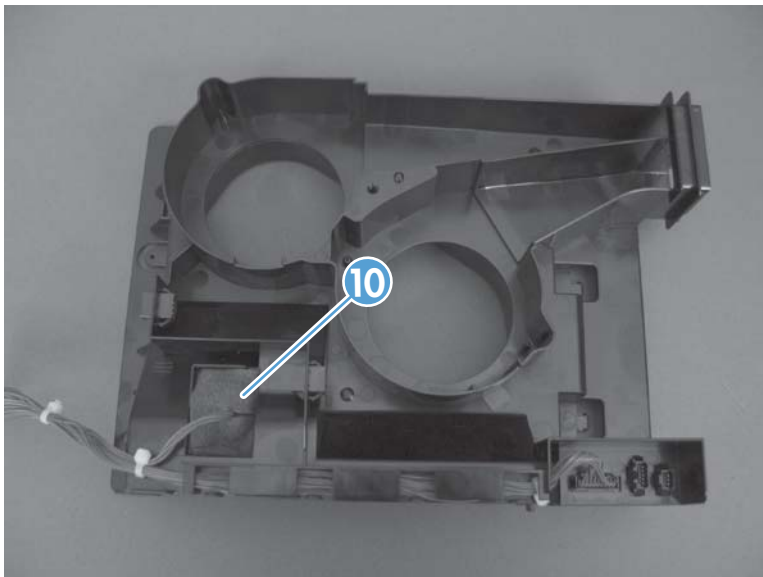
6. Disconnect two connectors (callout 8), and then remove the fans (callout 9).

Figure 1-169 Remove the delivery fan, cartridge fan, and environmental sensor (6 of 9)



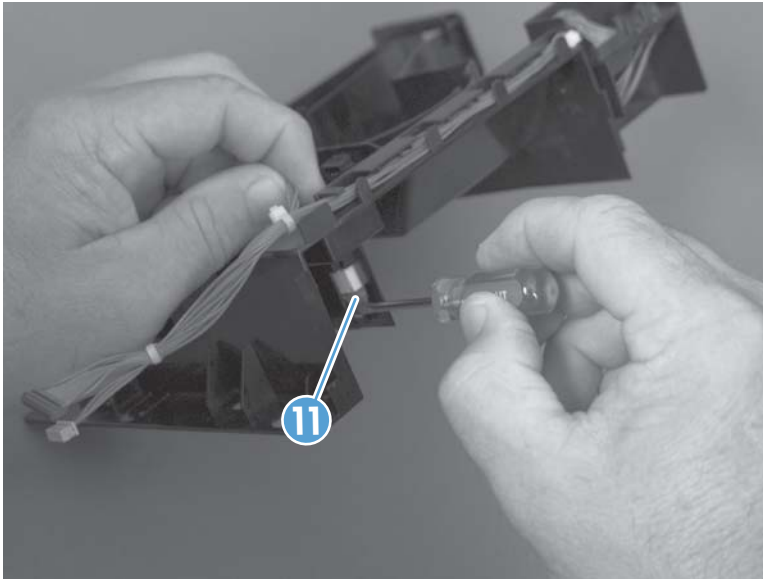
7. Remove the antistatic foam (callout 10).

Figure 1-170 Remove the delivery fan, cartridge fan, and environmental sensor (7 of 9)



8. Release one tab (callout 11).

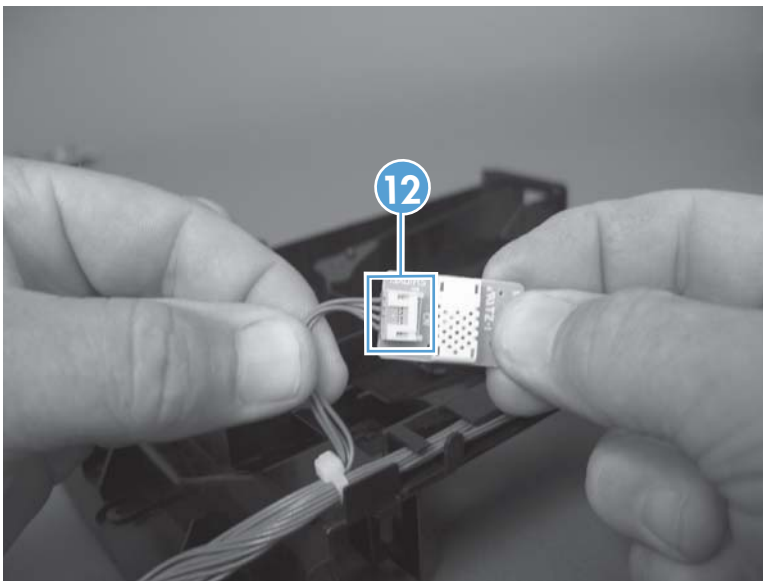
Figure 1-171 Remove the delivery fan, cartridge fan, and environmental sensor (8 of 9)



9. Disconnect one connector (callout 12), and then remove the environmental sensor.

CAUTION:  ESD-sensitive part.

Figure 1-172 Remove the delivery fan, cartridge fan, and environmental sensor (9 of 9)



Toner-collection sensor

Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Left cover. See [Left cover on page 61](#).

Remove the toner-collection sensor

1. Remove five screws (callout 1), and then remove the sheet-metal plate (callout 2).


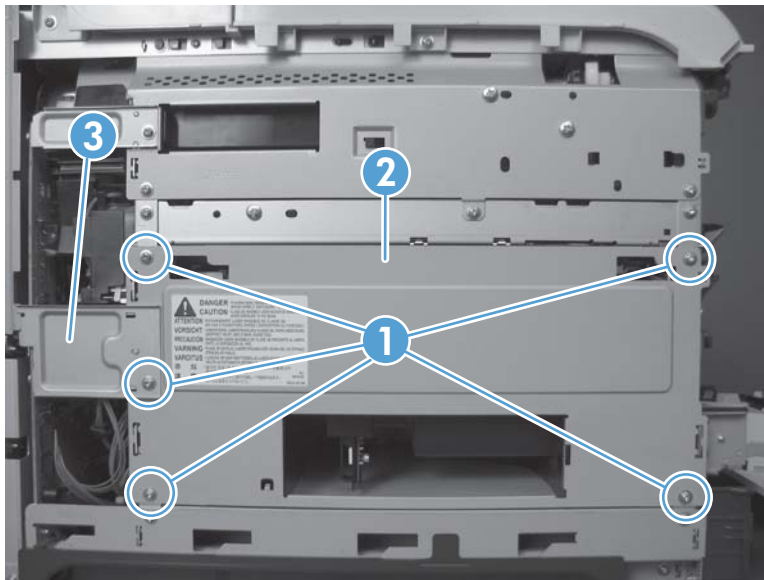
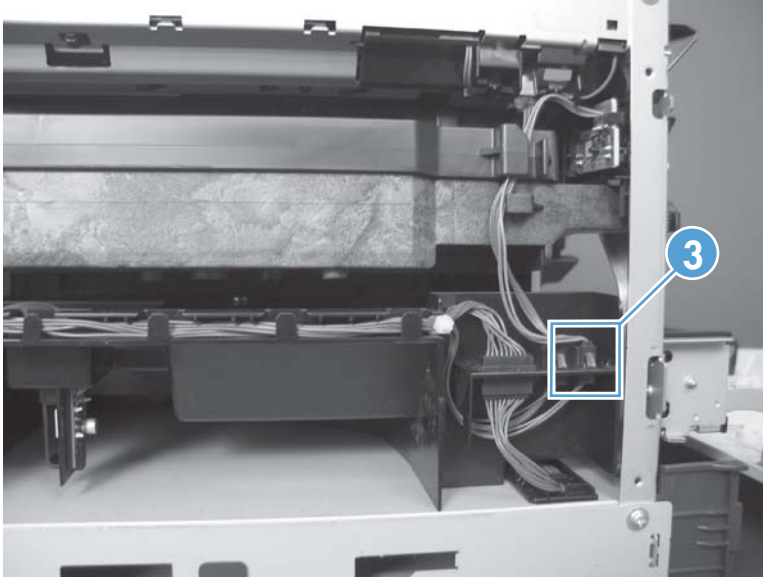
 **NOTE:** Release the small sheet-metal plate (callout 3) to allow access to the larger sheet-metal plate behind it. Leave the smaller plate attached to the chassis.

Figure 1-173 Remove the toner-collection sensor (1 of 4)



2. Disconnect one connector (callout 3).

Figure 1-174 Remove the toner-collection sensor (2 of 4)



3. Remove one screw (callout 4).


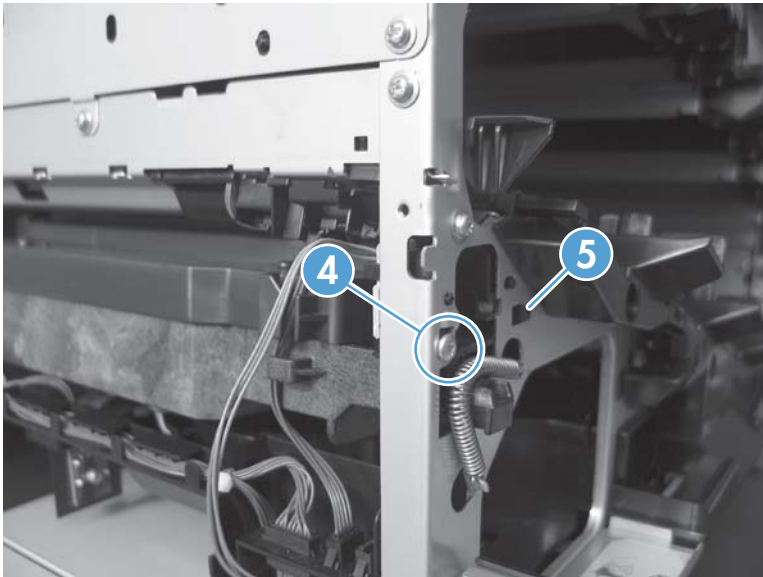
 **Reinstallation tip** When you reinstall the sensor, make sure that the tab (callout 5) on the sensor body completely engages the slot in the product chassis.

Figure 1-175 Remove the toner-collection sensor (3 of 4)



4. Remove the toner-collection sensor.

Figure 1-176 Remove the toner-collection sensor (4 of 4)




Residual-toner-feed motor

Before proceeding, remove the following components:

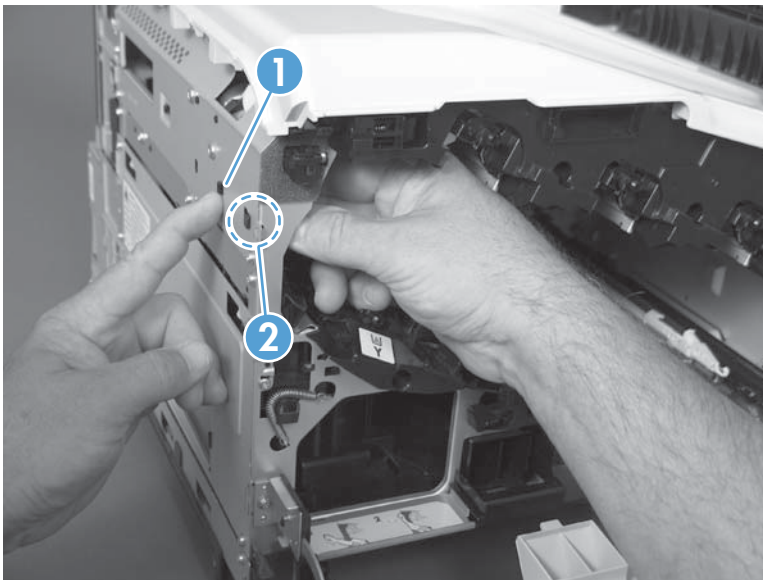
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Left cover. See [Left cover on page 61](#).

Remove the residual-toner-feed motor

 **NOTE:** Be careful. Do not dislodge the residual-toner collection door when you remove the assembly. If the door becomes dislodged, see [Reinstall the residual-toner collection door on page 130](#) to reinstall it.

1. Release one tab (callout 1) while you support the cover (callout 2).

Figure 1-177 Remove the residual-toner-feed motor (1 of 7)



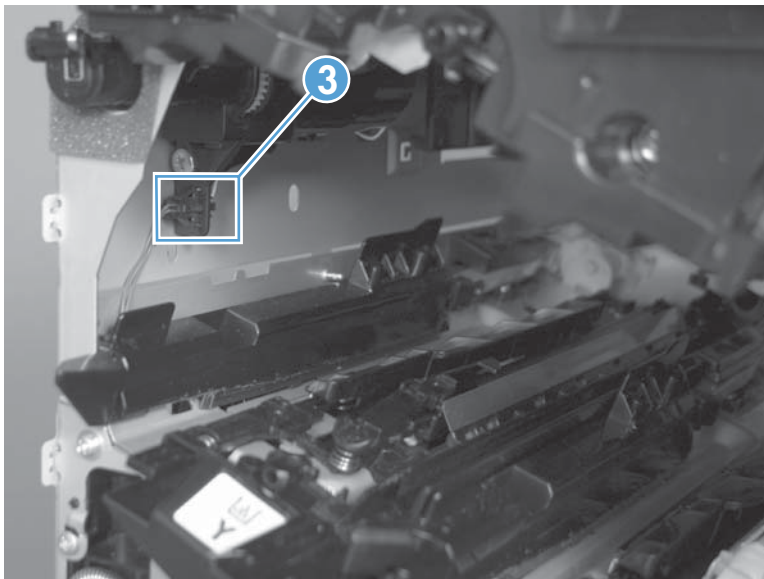
2. Remove the cover.

Figure 1-178 Remove the residual-toner-feed motor (2 of 7)



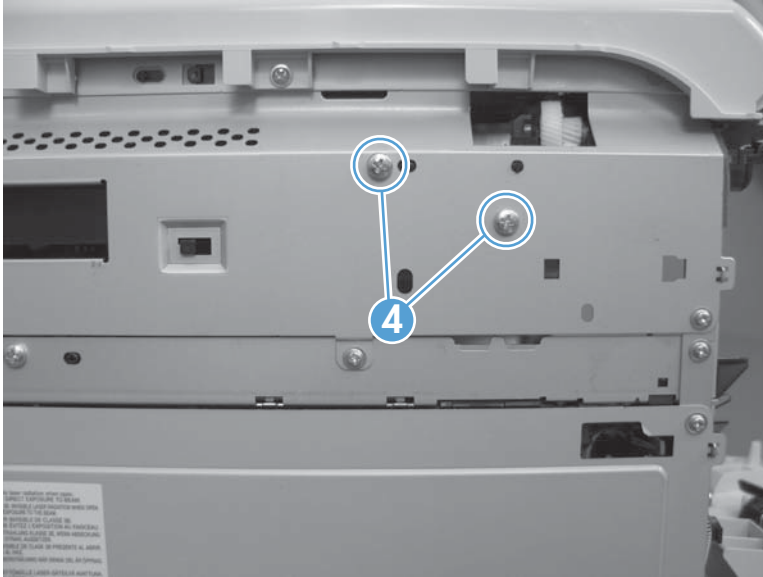
3. Disconnect one connector (callout 3).

Figure 1-179 Remove the residual-toner-feed motor (3 of 7)



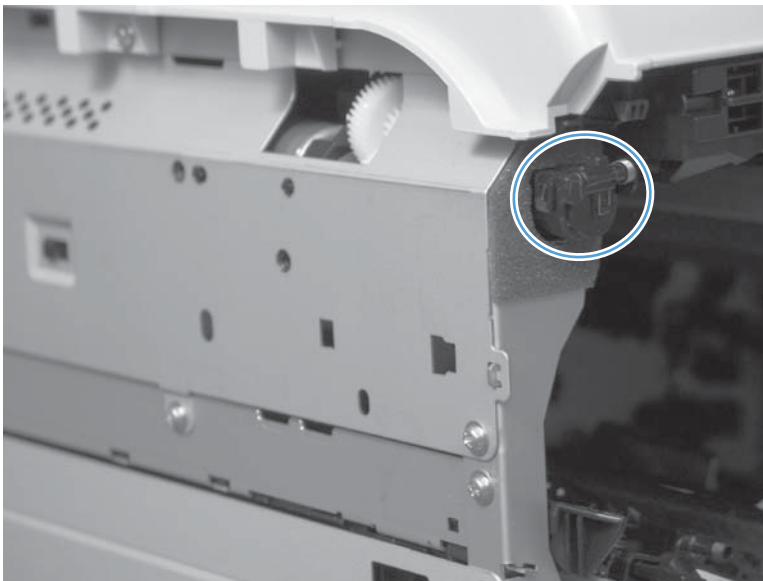
4. Support the assembly, and then remove two screws (callout 4).

Figure 1-180 Remove the residual-toner-feed motor (4 of 7)



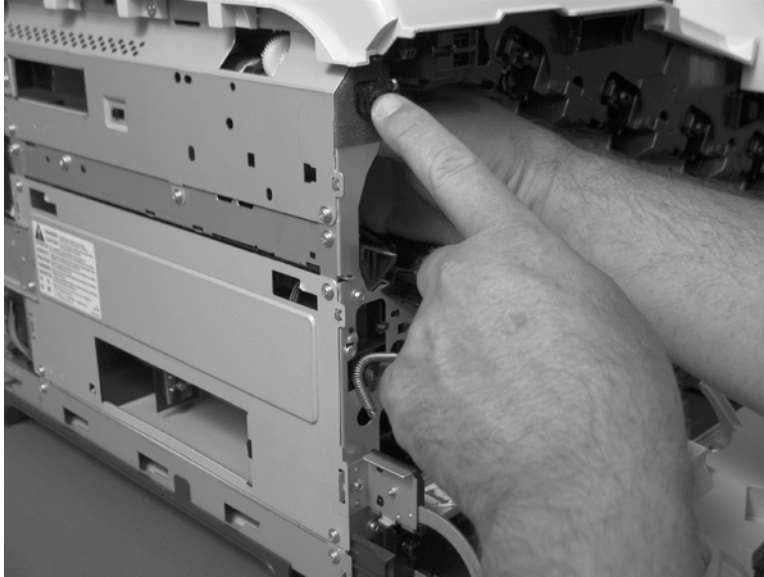
5. Be careful. Do not dislodge the residual-toner collection door when you remove the assembly. If the door becomes dislodged, see [Reinstall the residual-toner collection door on page 130](#) to reinstall it.

Figure 1-181 Remove the residual-toner-feed motor (5 of 7)



6. Push the assembly into the product to release it.

Figure 1-182 Remove the residual-toner-feed motor (6 of 7)



7. Remove the motor.

Figure 1-183 Remove the residual-toner-feed motor (7 of 7)



Reinstall the residual-toner collection door

Snap the residual-toner collection door into the holders on the assembly. Make sure that the spring is correctly installed.

Figure 1-184 Reinstall the residual-toner collection door

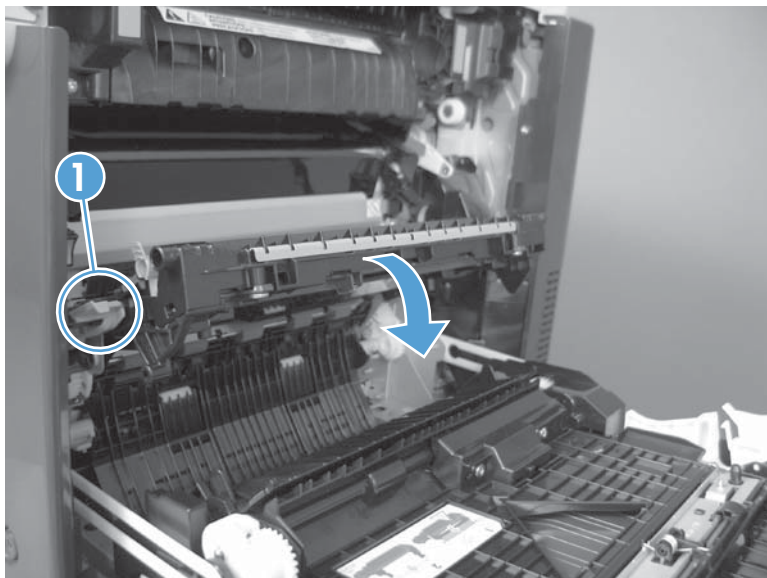


Secondary transfer assembly

The secondary transfer assembly includes the transfer roller.

1. Open the right-door assembly.
2. Use the blue lever (callout 1) to lower the secondary transfer assembly.

Figure 1-185 Remove the transfer roller (1 of 3)



3. Release one tab and carefully remove the stopper.


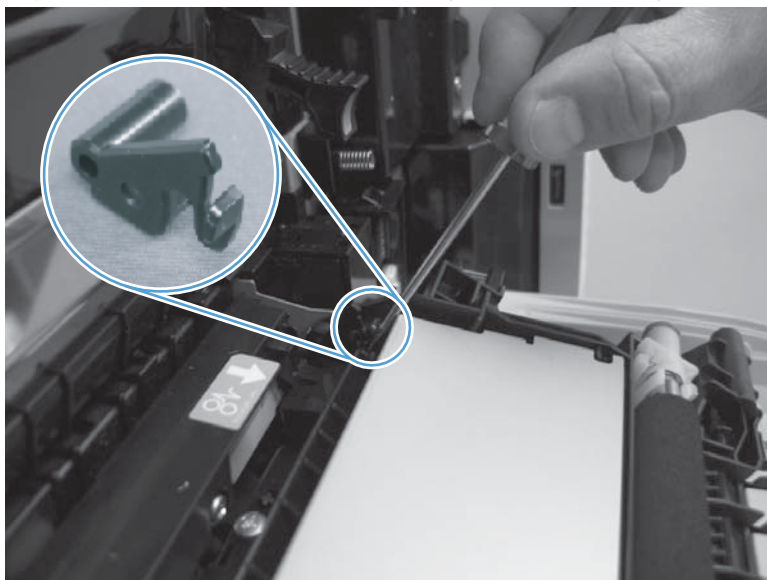
 **NOTE:** You might have to slightly lift up on the corner of the assembly to release the stopper pin from the hole in the chassis.

Figure 1-186 Remove the secondary transfer assembly (2 of 3)



4. Remove the secondary transfer assembly.

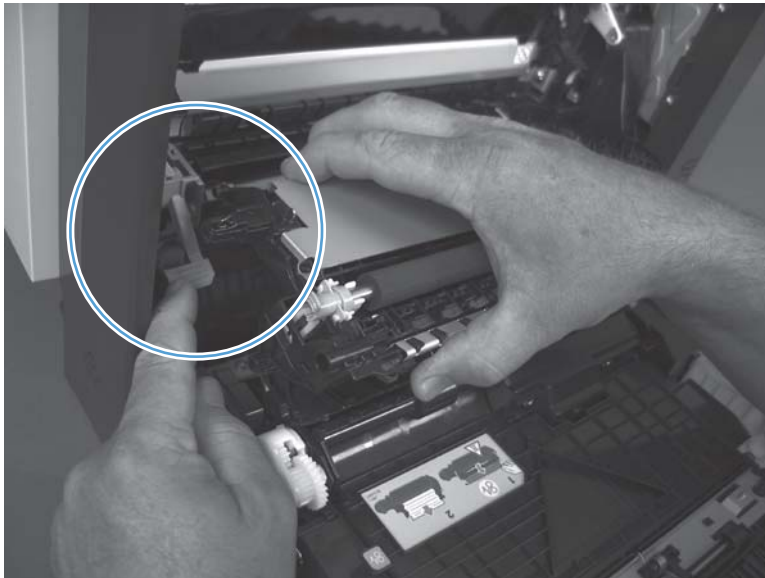
Figure 1-187 Remove the secondary transfer assembly (3 of 3)



Reinstall the secondary transfer assembly

Press and hold down the blue release lever when you reinstall the assembly.

Figure 1-188 Reinstall the secondary transfer assembly

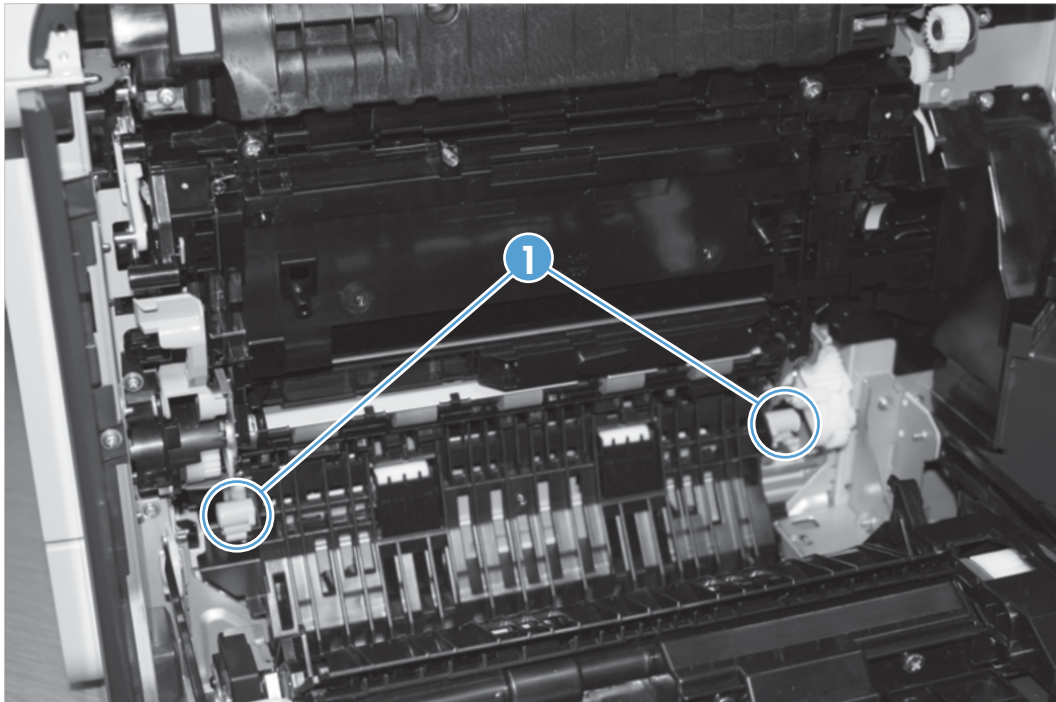


Lower pickup guide

Remove the lower pickup guide

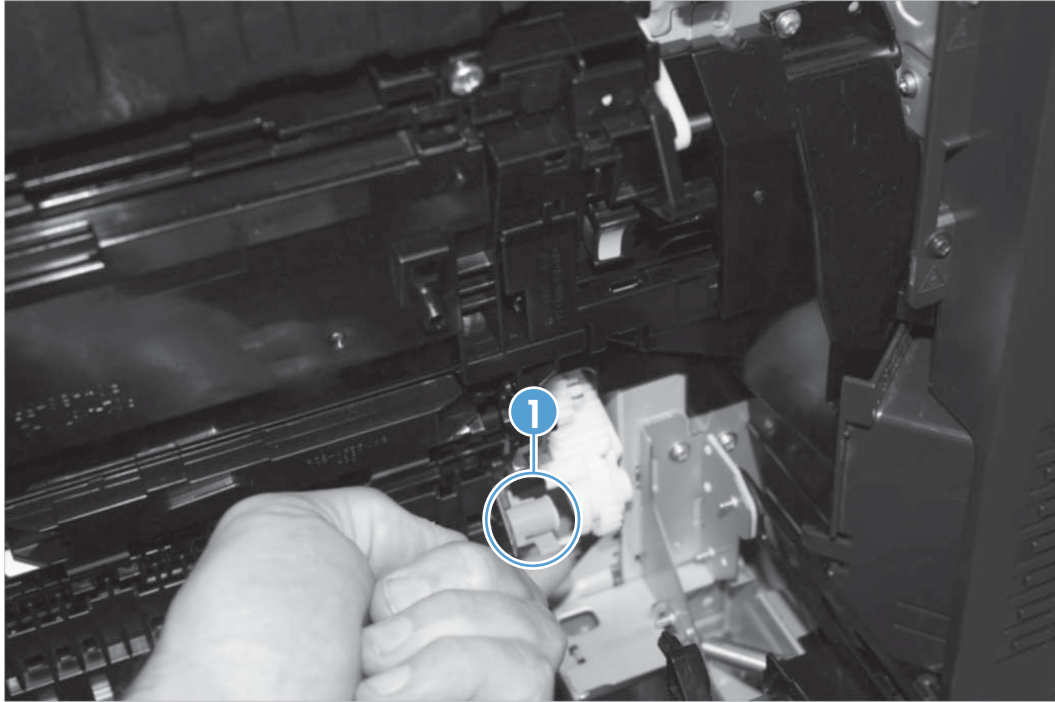
1. Open the right-door assembly.
2. Locate the lower pickup guide directly below the registration assembly. The guide is locked into place by two green circular knobs (callout 1).

Figure 1-189 Remove the lower pickup guide (1 of 4)



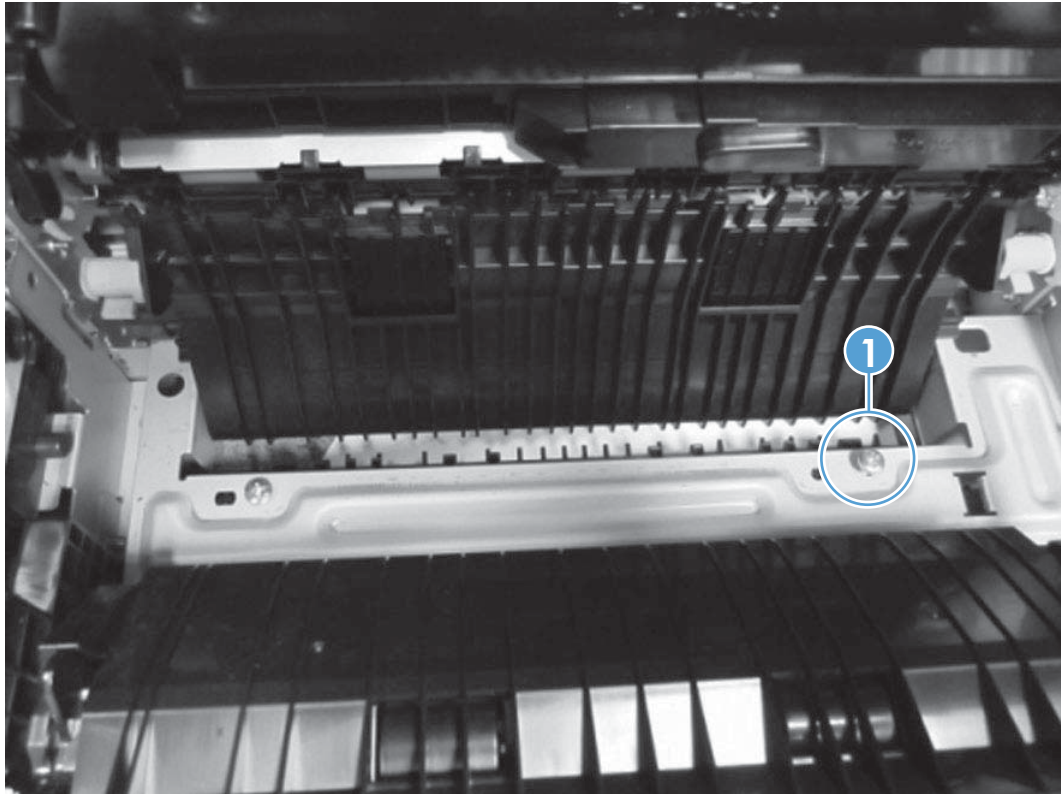
3. Lift the green circular knobs simultaneously to release the assembly.

Figure 1-190 Remove the lower pickup guide (2 of 4)



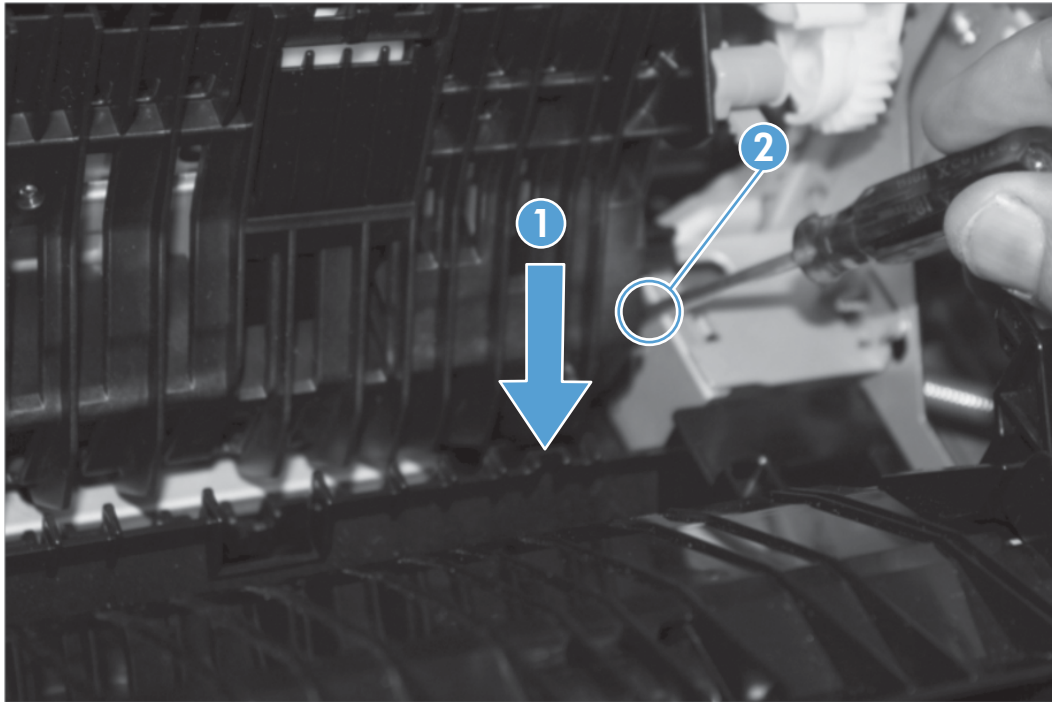
4. Raise the guide, and then loosen, but do not remove, one screw (callout 1) on the paper entrance guide.

Figure 1-191 Remove the lower pickup guide (3 of 4)



5. While pushing down on the paper entrance guide (callout 1), use a flat blade screwdriver to press in on the hinge pin (callout 2) and release it from the product. Rotate the assembly counterclockwise away from the product to remove it.

Figure 1-192 Remove the lower pickup guide (4 of 4)



Reinstall the lower pickup guide

- ▲ Insert the front pin of the assembly into the hole at the front of the chassis. Slightly press down on the rear hinge pin and insert it into the hole at the rear of the chassis. Rotate the guide toward the product until the green knobs snap back into place. Tighten the screw on the paper entrance guide.

Registration density (RD) sensor assembly

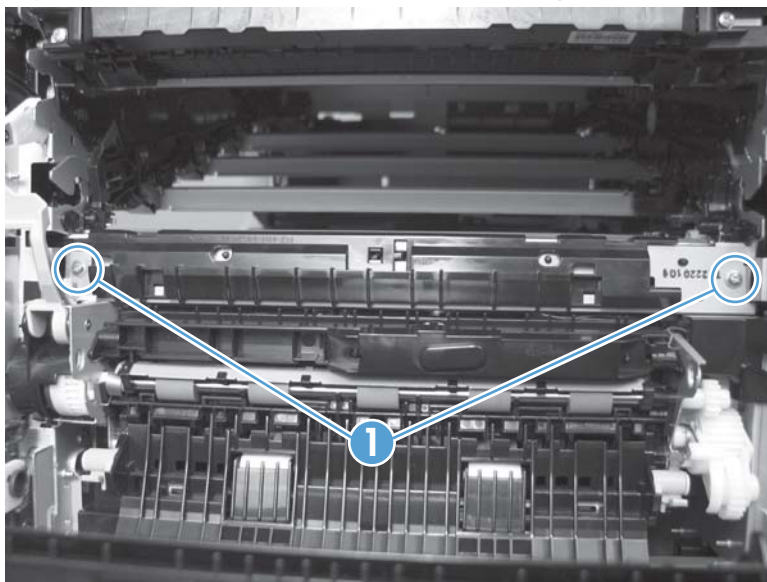
Before proceeding, remove the following components:

- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).

Remove the RD sensor assembly

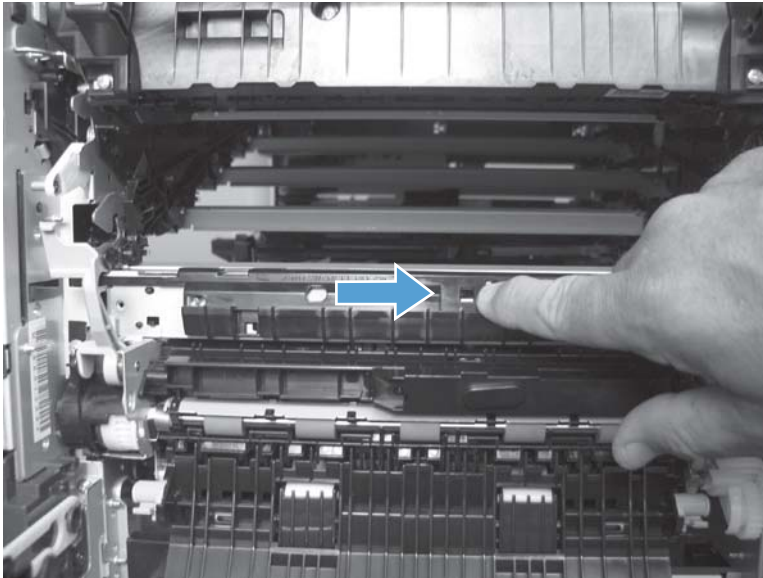
1. Remove two screws (callout 1).

Figure 1-193 Remove the RD sensor assembly (1 of 6)



2. Slide the shutter toward the right side of the product. Keep the shutter in this position for the following step.

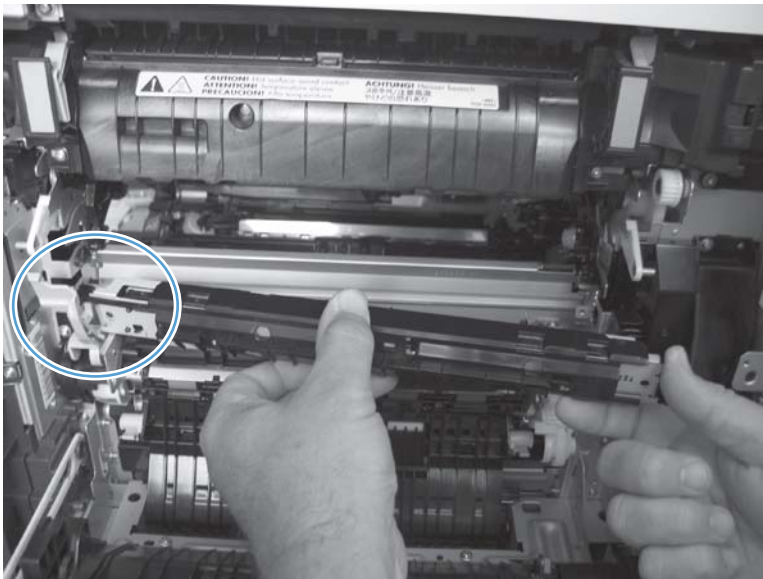
Figure 1-194 Remove the RD sensor assembly (2 of 6)



3. Carefully separate the assembly from the product. The assembly wire harnesses are still attached to the product.

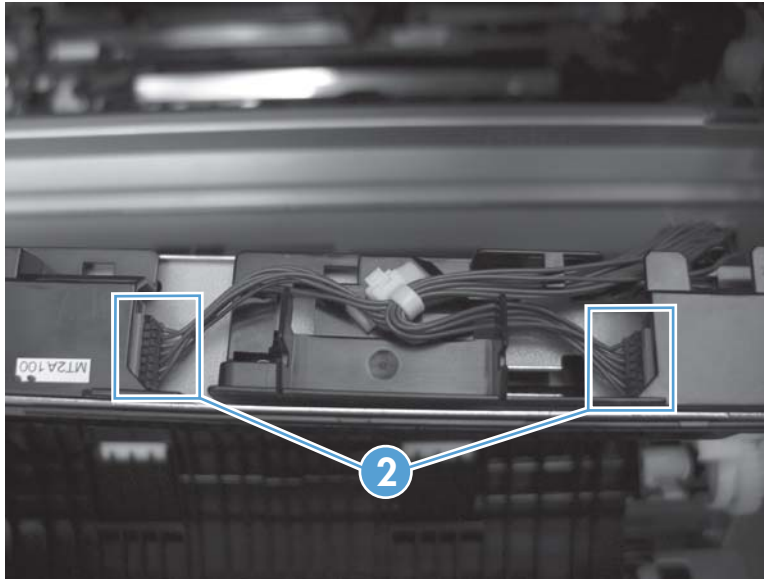
CAUTION: Do not damage the shutter as it passes through the chassis.

Figure 1-195 Remove the RD sensor assembly (3 of 6)



4. Disconnect two connectors (callout 2) on the back side of the assembly.

Figure 1-196 Remove the RD sensor assembly (4 of 6)



5. Push in on the locking tab to release the retainer (callout 3), and then separate the retainer from the assembly.


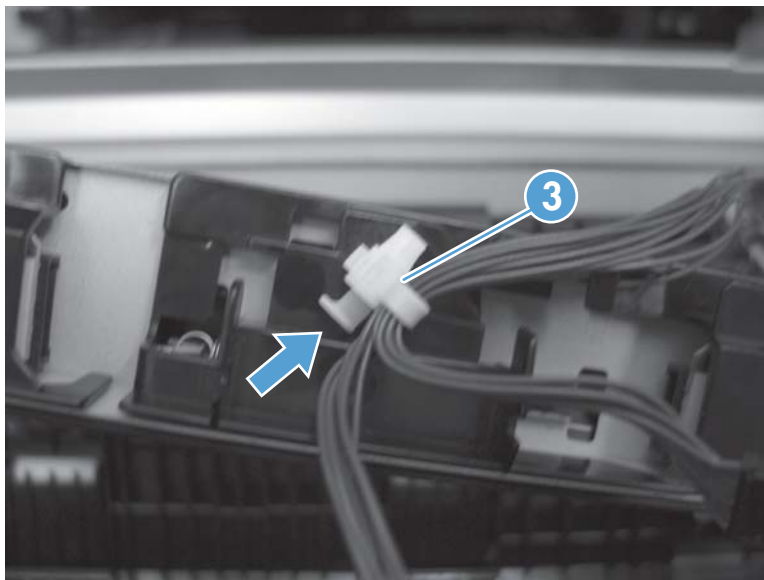
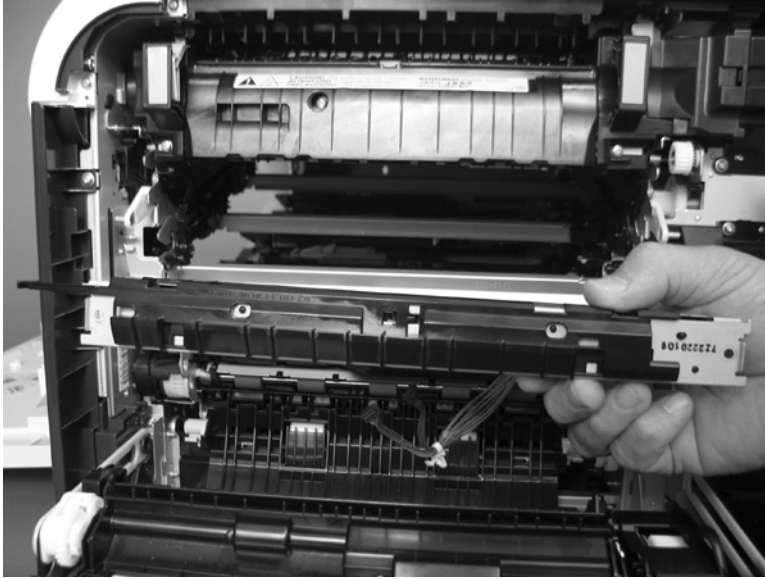
 **NOTE:** The retainer remains attached to the wire harness, and disengages from the assembly.

Figure 1-197 Remove the RD sensor assembly (5 of 6)



6. Remove the assembly.

Figure 1-198 Remove the RD sensor assembly (6 of 6)



Power-supply fan and fan duct

Before proceeding, remove the following components:

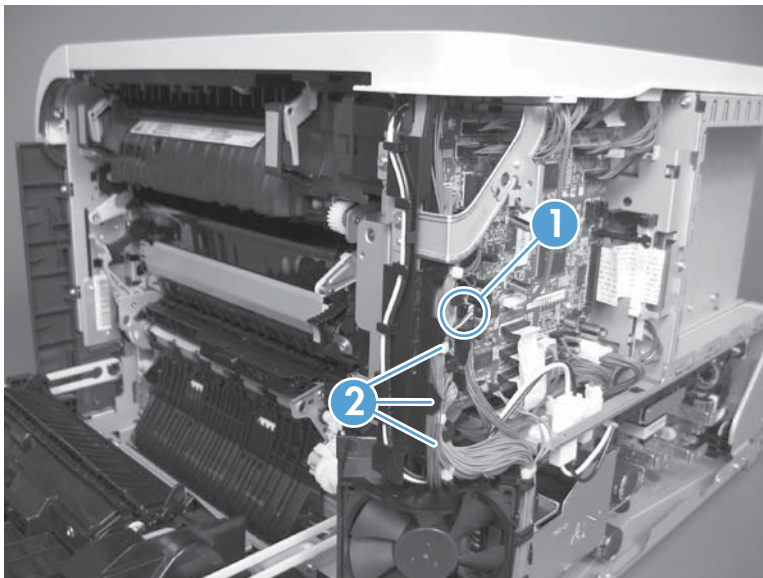
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).

Remove the power-supply fan and fan duct

1. Disconnect one connector (callout 1; J119) and release the wire harnesses from the guide (callout 2).

 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-199 Remove the power-supply fan (1 of 4)



- 2. To remove the fan only:** Release two tabs (callout 3), and then remove the fan from the fan duct.


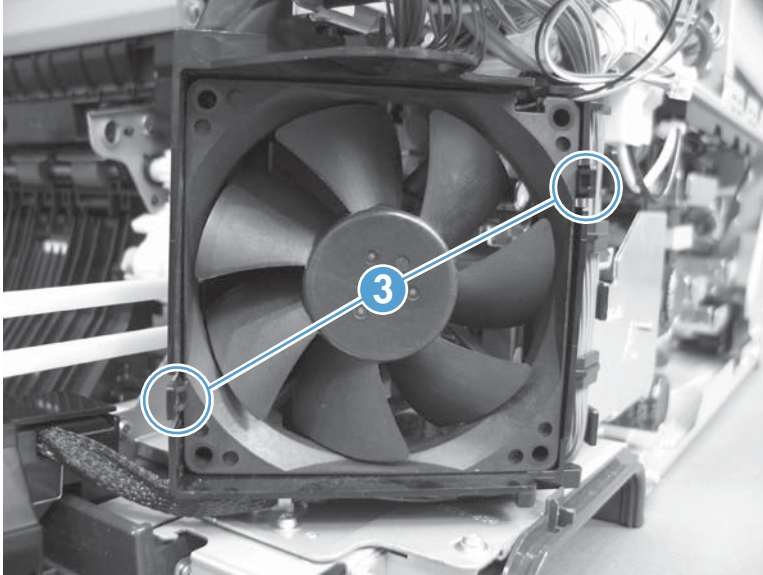
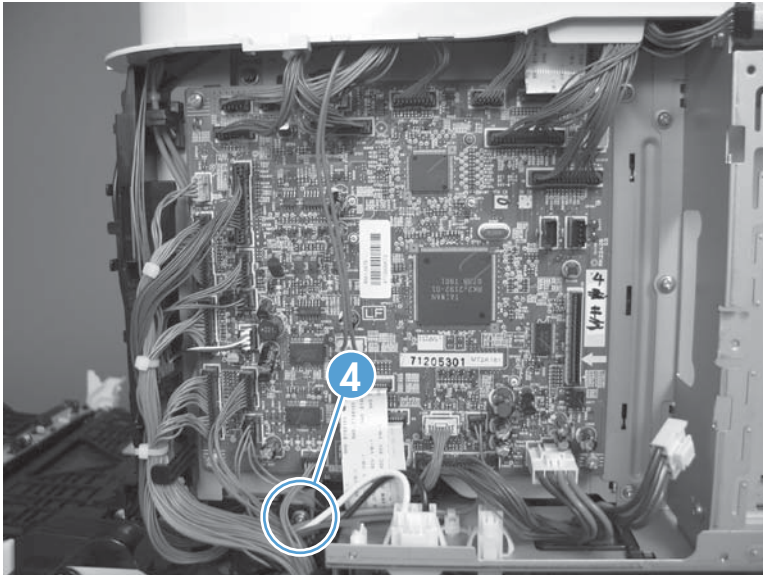
 **Reinstallation tip** When the fan is reinstalled, the air must flow into the product. Look at the arrows embossed on the fan frame that indicate air flow direction.

Figure 1-200 Remove the power-supply fan (2 of 4)



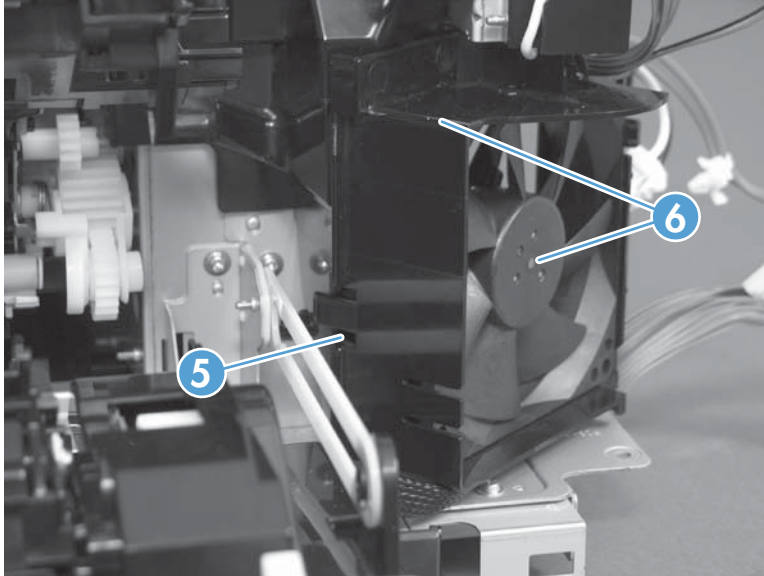
- 3. To remove the fan and fan duct:** Remove one screw (callout 4), and then release the wire harnesses from the guides on the fan duct.

Figure 1-201 Remove the power-supply fan (3 of 4)



- 4. To remove the fan and fan duct:** Release one tab (callout 5), and then remove the fan and fan duct (callout 6).


Figure 1-202 Remove the power-supply fan (4 of 4)



Registration assembly


Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Registration density (RD) sensor assembly. See [Registration density \(RD\) sensor assembly on page 137](#).

 **TIP:** Removing the RD sensor assembly makes it much easier to reinstall the registration assembly.

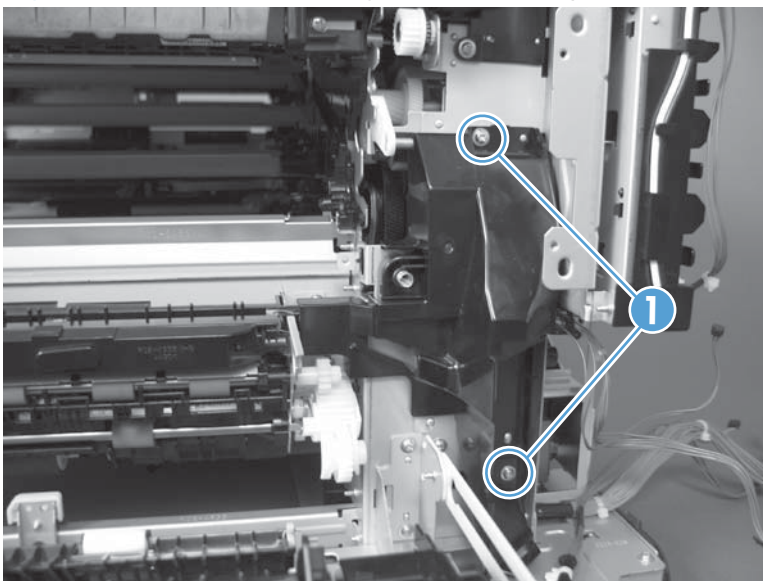
- Power-supply fan and fan duct. See [Power-supply fan and fan duct on page 141](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).

Remove the registration assembly

 **NOTE:** If a replacement registration assembly is installed, you must use the control-panel menus to reset the registration-roller count.

1. Remove two screws (callout 1).

Figure 1-203 Remove the registration assembly (1 of 8)



2. Pull down on the cover to release one tab, and then rotate the cover away from the product to remove it.

Figure 1-204 Remove the registration assembly (2 of 8)



3. Release two green latches (callout 2), and then lower the feed guide.


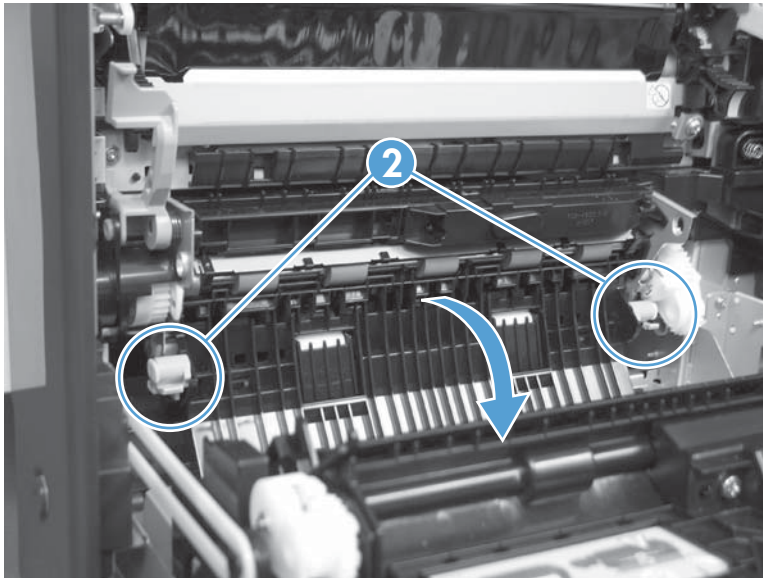
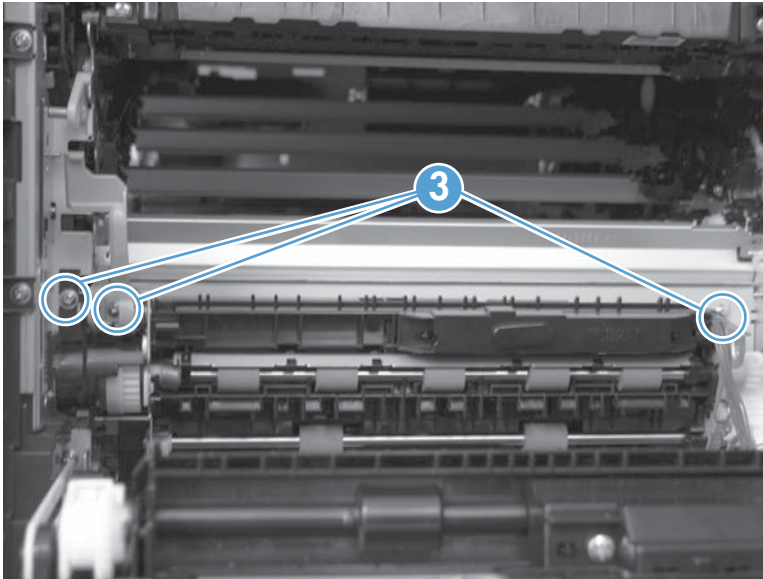
 **Reinstallation tip** Make sure that the feed guide snaps into the closed position when you reinstall the registration assembly.

Figure 1-205 Remove the registration assembly (3 of 8)



4. Remove three screws (callout 3).

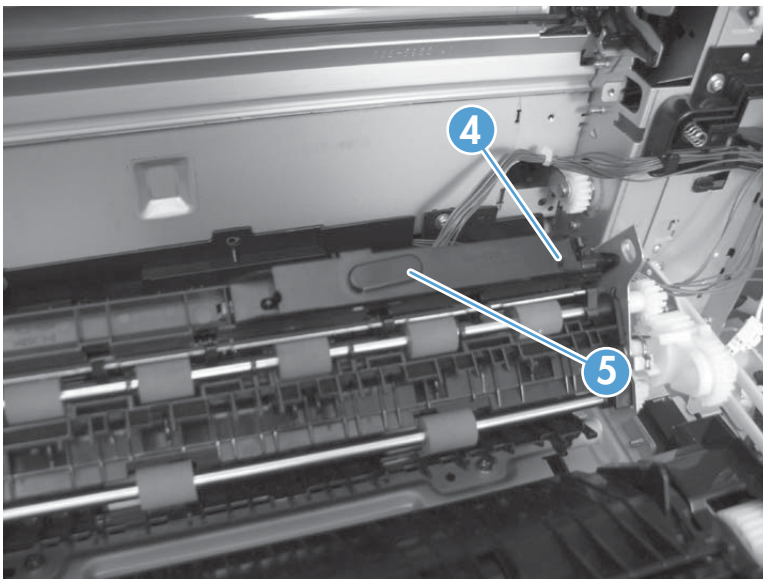
Figure 1-206 Remove the registration assembly (4 of 8)



5. Separate the assembly from the product, release one tab (callout 4), and then remove the cover (callout 5).

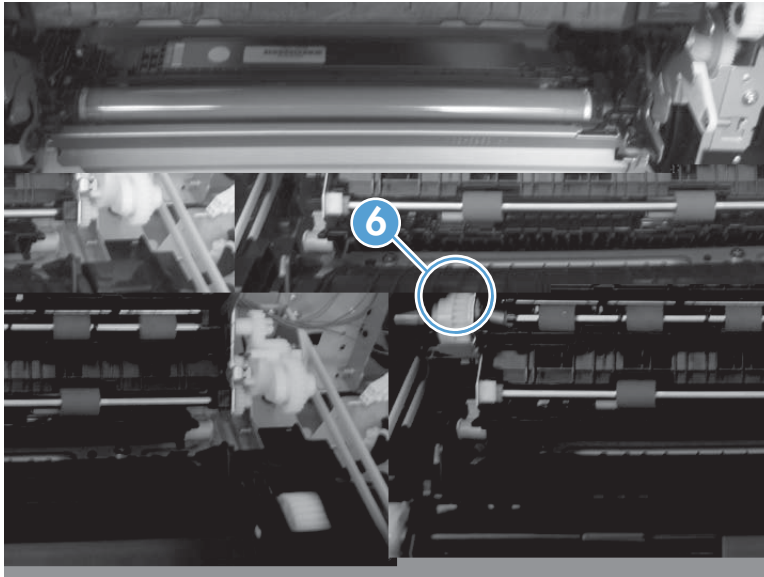
CAUTION: The assembly is still attached to the product by the wire harnesses.

Figure 1-207 Remove the registration assembly (5 of 8)



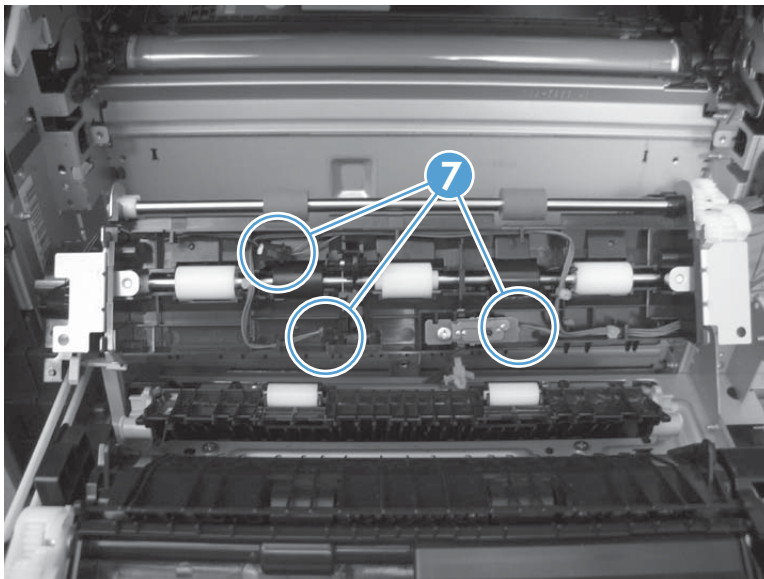
6. Disconnect one connector (callout 6), and then release the wire harness from the retainer.

Figure 1-208 Remove the registration assembly (6 of 8)



7. Disconnect three connectors (callout 7) on the back side of the assembly, and then release the wires from the retainers.

Figure 1-209 Remove the registration assembly (7 of 8)



8. Remove the assembly.


 **Reinstallation tip** When you reinstall the registration assembly, make sure that it is correctly positioned in the product. The tabs on the assembly must fit into the slots in the product chassis and the assembly should fit securely up against the product chassis.

Figure 1-210 Remove the registration assembly (8 of 8)



High-voltage power supply lower

Before proceeding, remove the following components:

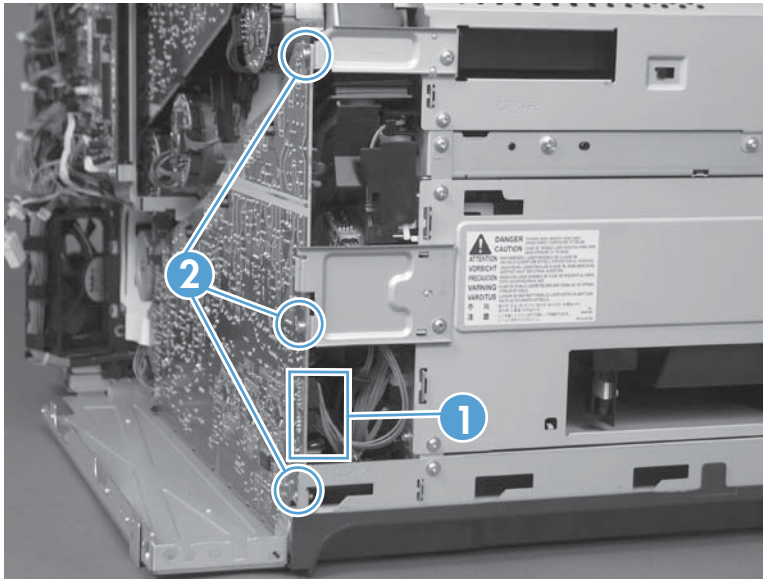
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).

Remove the high-voltage power supply lower

CAUTION:  ESD-sensitive part.

1. Disconnect two connectors (callout 1), and then remove three screws (callout 2).

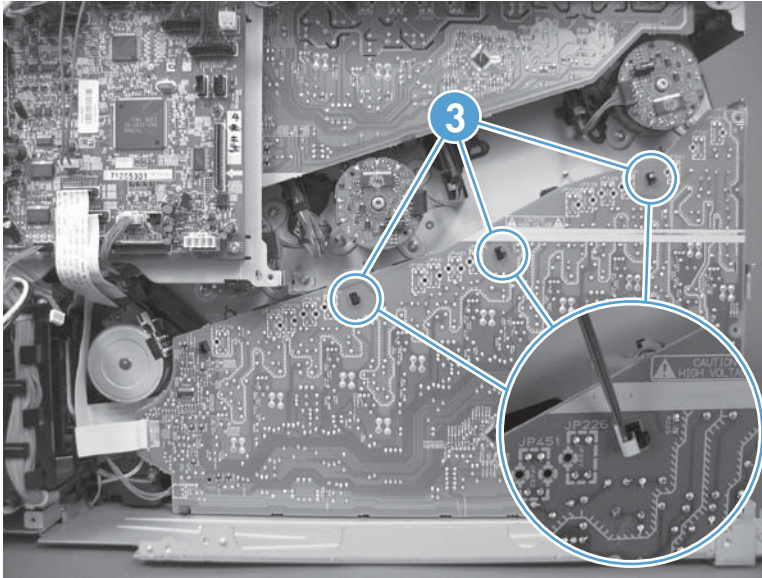
Figure 1-211 Remove the high-voltage power supply lower (1 of 4)



2. Use a small flat blade screwdriver to carefully remove three locking clips (callout 3).

CAUTION: Do not damage the PCA with the screwdriver.

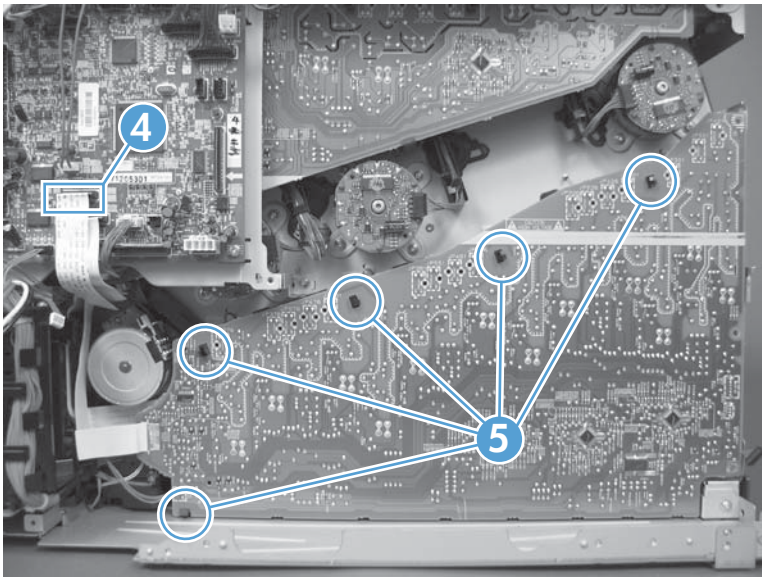
Figure 1-212 Remove the high-voltage power supply lower (2 of 4)



3. Disconnect one connector (callout 4; J114), and then release five clips (callout 5).

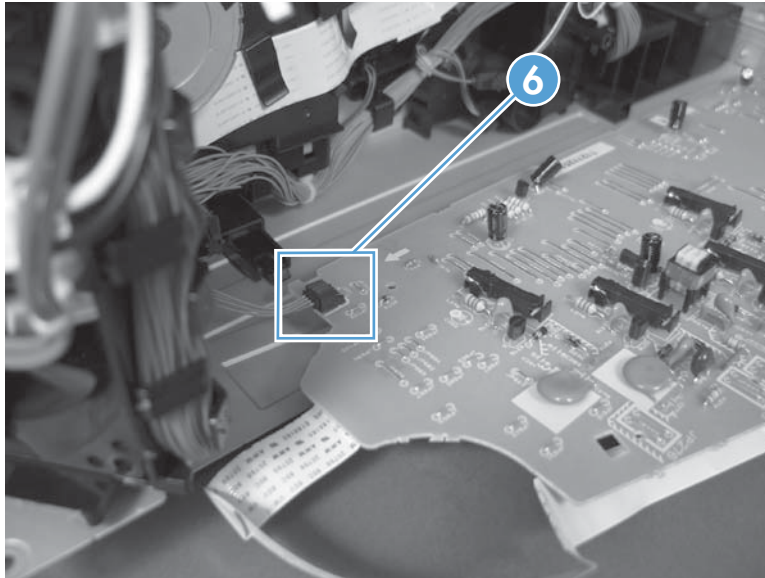
NOTE: To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-213 Remove the high-voltage power supply lower (3 of 4)



4. Rotate the top of the power supply away from the chassis, and then disconnect one connector (callout 6). Remove the power supply

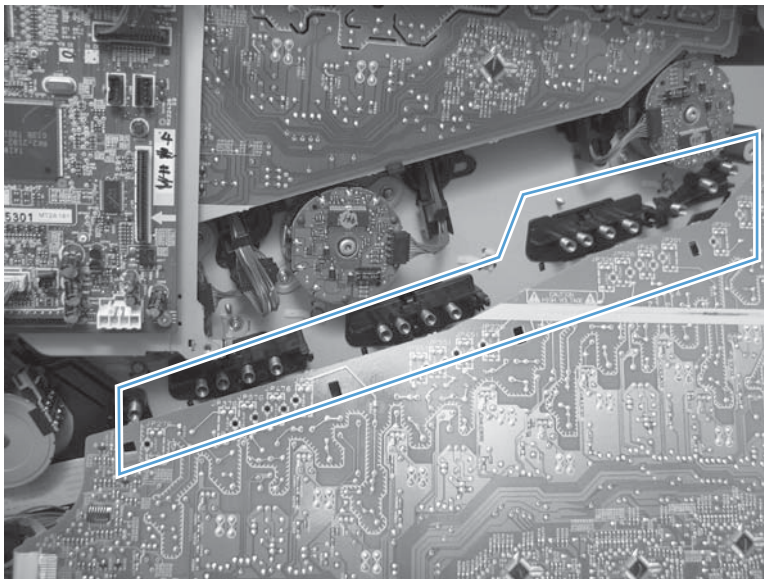
Figure 1-214 Remove the high-voltage power supply lower (4 of 4)



Reinstall the high-voltage power supply lower

When you reinstall the power supply, look through the holes in the PCA and make sure that the high-voltage contact springs are correctly seated against the PCA.

Figure 1-215 Reinstall the high-voltage power supply lower



Developing-disengagement motor

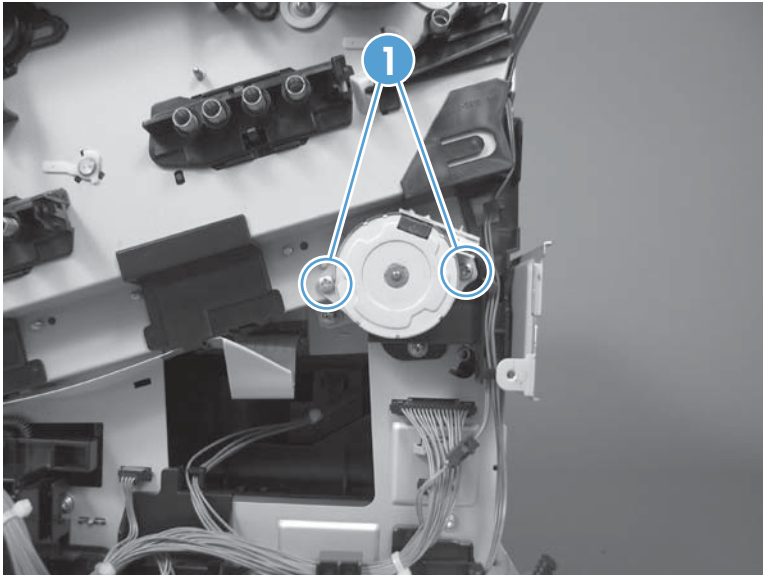
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).

Remove the developing-disengagement motor

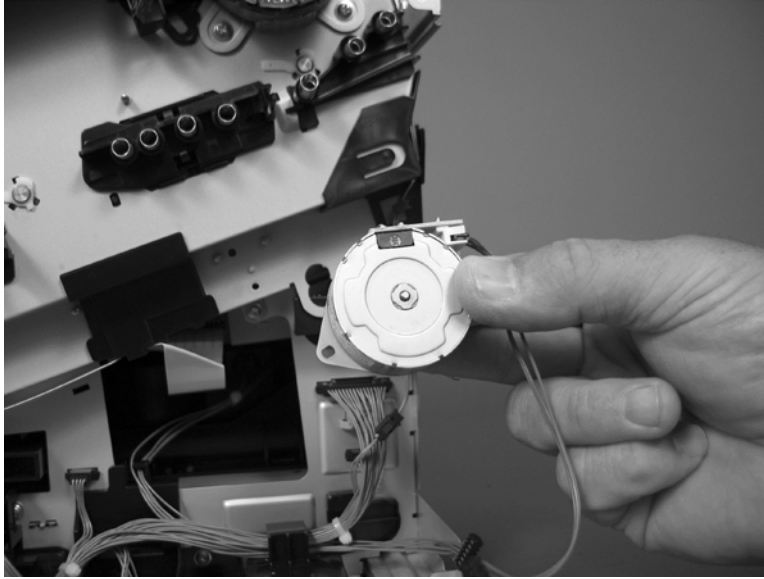
1. Remove two screws (callout 1).


Figure 1-216 Remove the developing-disengagement motor (1 of 2)



2. Remove the motor.

Figure 1-217 Remove the developing-disengagement motor (2 of 2)



 **Reinstallation tip** Make sure the motor is installed correctly. The PCA on the motor should be on top when the installation is complete.

Pickup motor

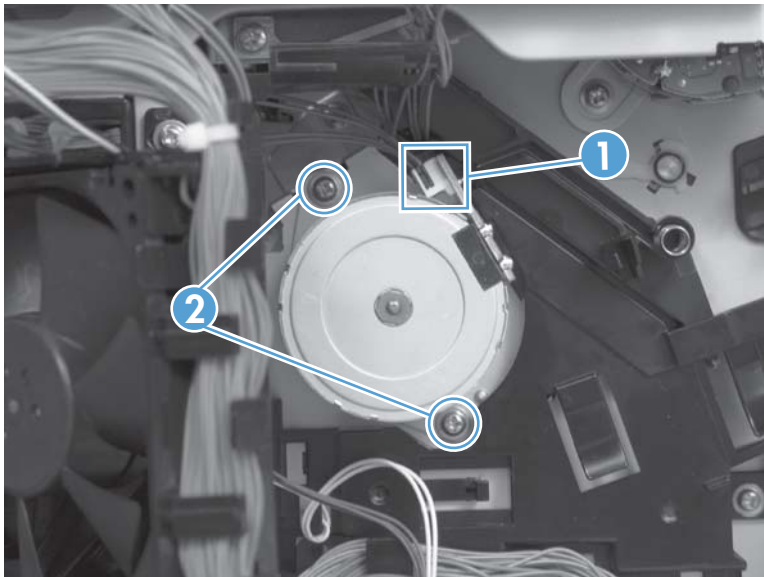
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).

Remove the pickup motor

Disconnect one connector (callout 1), remove two screws (callout 2), and then remove the motor.

Figure 1-218 Remove the pickup motor



Lifter-drive assembly

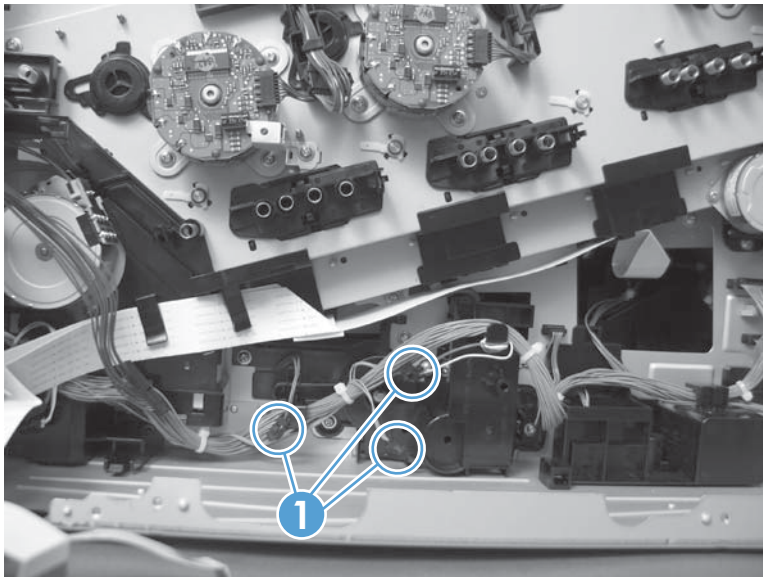
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).

Remove the lifter-drive assembly

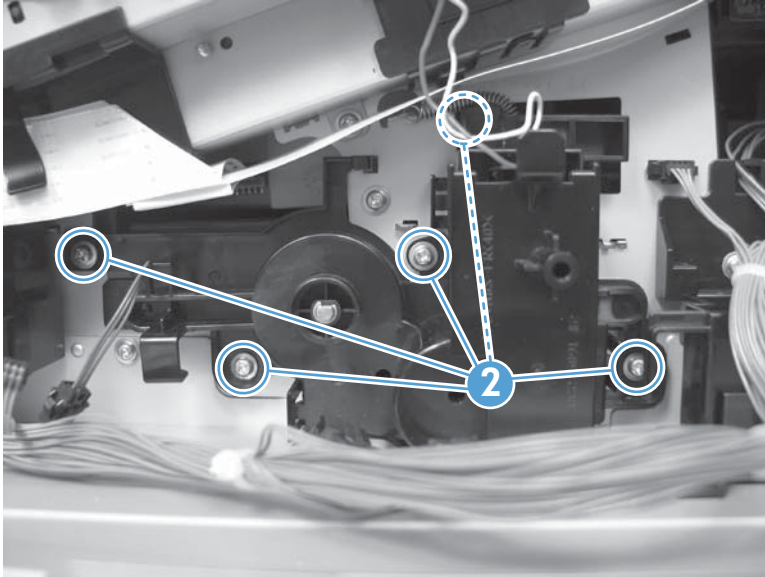
1. Disconnect three connectors (callout 1), and then release the wire harness from the retainers.

Figure 1-219 Remove the lifter-drive assembly (1 of 2)



2. Remove five screws (callout 2), and then remove the assembly.

Figure 1-220 Remove the lifter-drive assembly (2 of 2)



Tray-pickup drive assembly

Before proceeding, remove the following components:

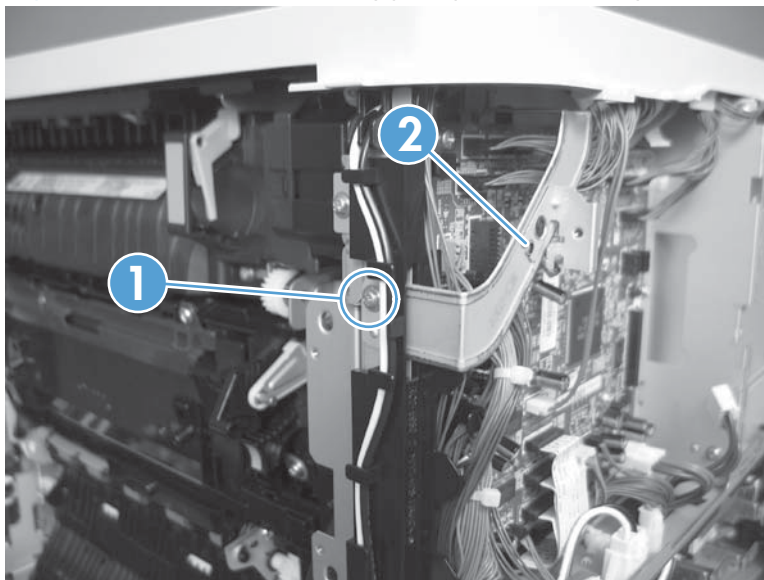
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).

Remove the tray-pickup drive assembly

 **NOTE:** To remove the pickup motor only, see [Pickup motor on page 154](#).

1. Remove one screw (callout 1), and then remove the sheet-metal bracket (callout 2).

Figure 1-221 Remove the tray-pickup drive assembly (1 of 10)



2. Disconnect six connectors (callout 3; J106, J107, J108, J137, J138, J140).


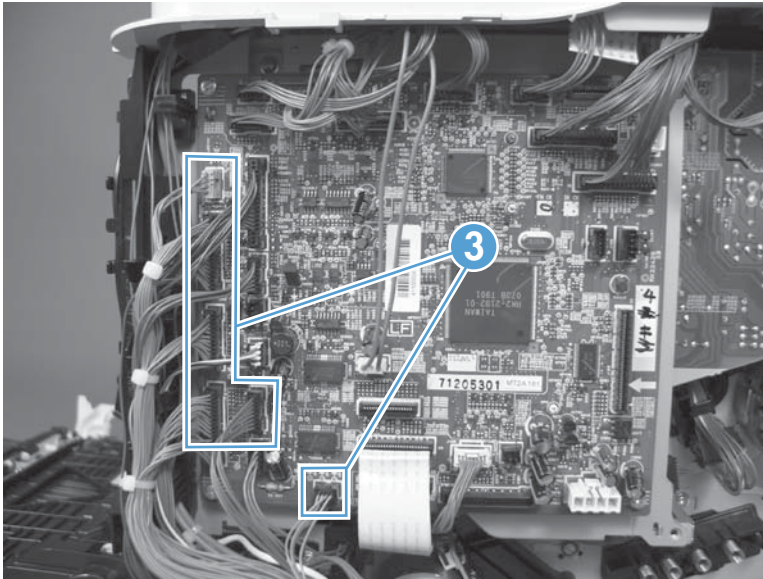
 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-222 Remove the tray-pickup drive assembly (2 of 10)



3. Disconnect one connector (callout 4; J119), remove one screw (callout 5), and then release the wire harness from the guides.


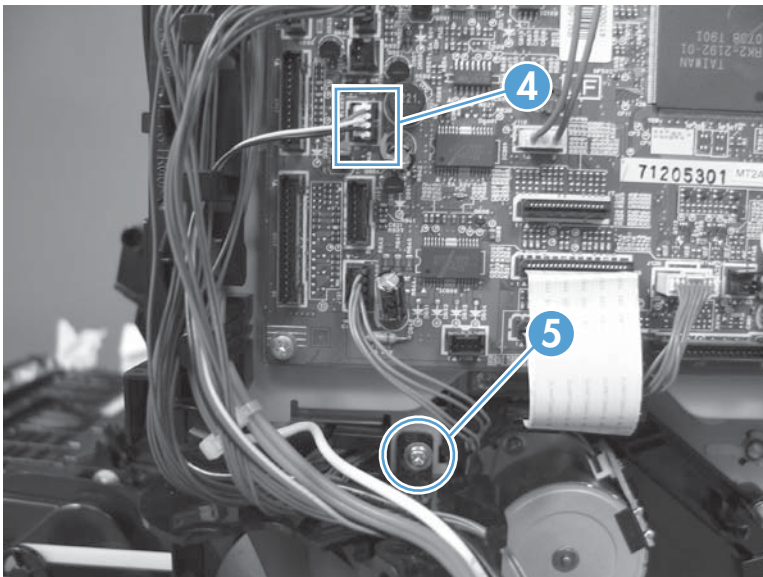
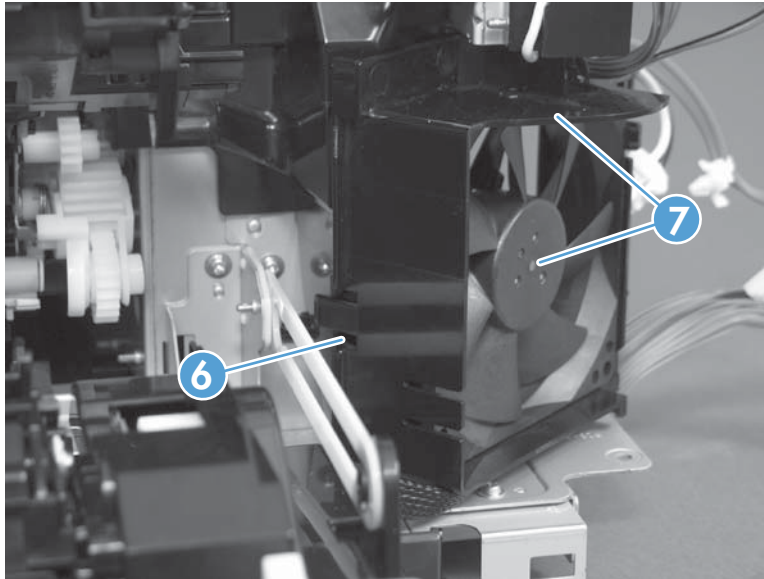
 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-223 Remove the tray-pickup drive assembly (3 of 10)



4. Release one tab (callout 6), and then remove the fan and fan duct (callout 7).

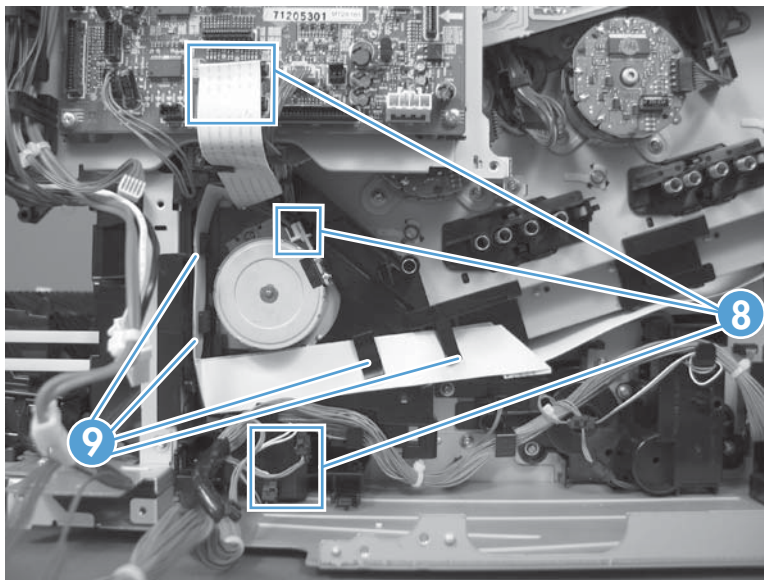
Figure 1-224 Remove the tray-pickup drive assembly (4 of 10)



5. Disconnect five connectors (callout 8; J110, J111 on the DC controller PCA), release the FFCs from the guide (callout 9), and then release the wire harnesses from the guides.

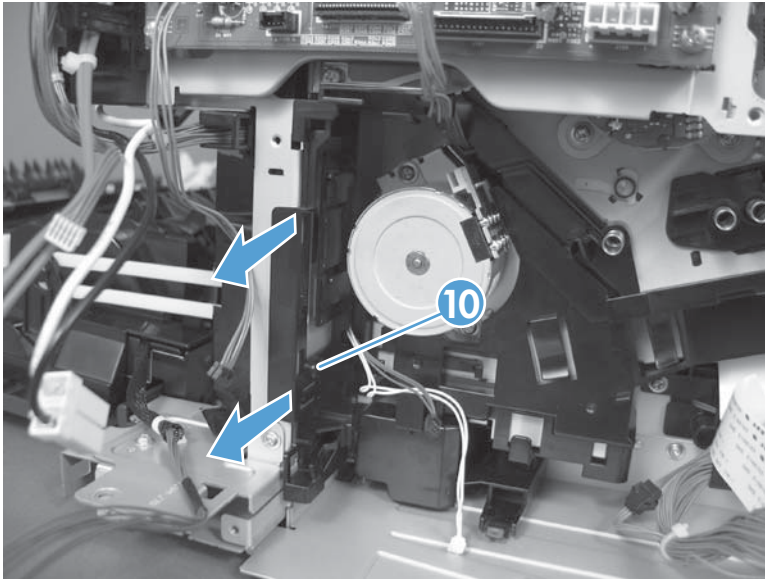
 **NOTE:** To locate DC controller connector locations, see [DC controller PCA on page 8](#).

Figure 1-225 Remove the tray-pickup drive assembly (5 of 10)



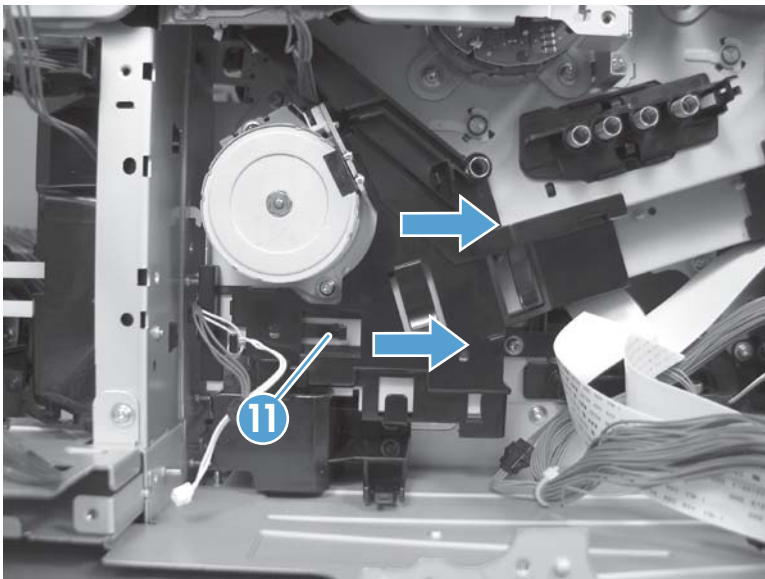
6. Release one tab (callout 10), and then remove the guide.

Figure 1-226 Remove the tray-pickup drive assembly (6 of 10)



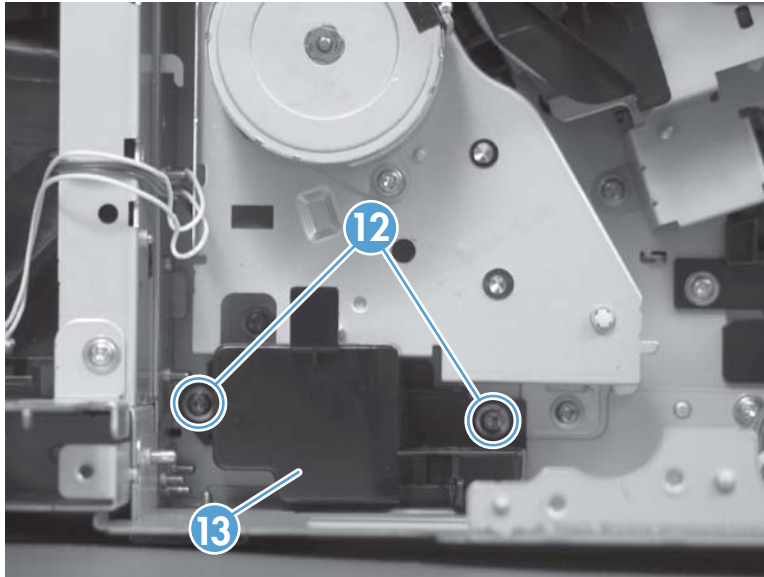
7. Release one tab (callout 11), and then remove the guide.

Figure 1-227 Remove the tray-pickup drive assembly (7 of 10)



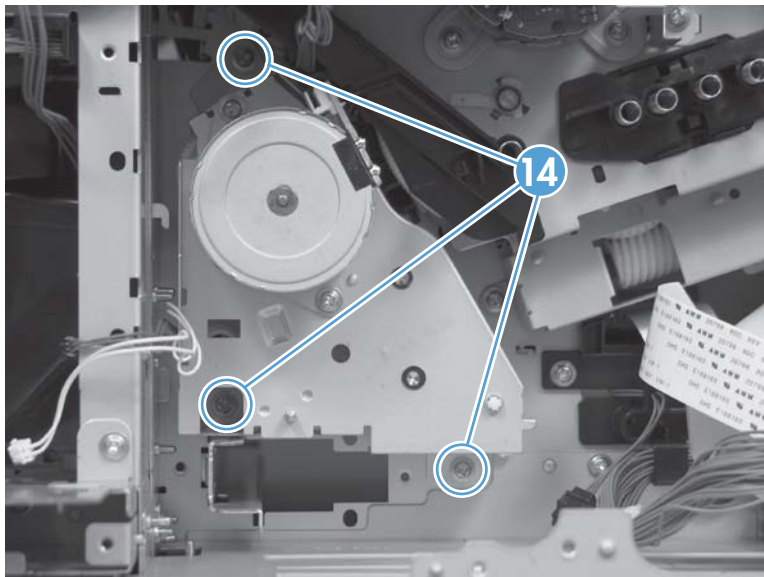
8. Remove two screws (callout 12), and then remove the high-voltage bracket (callout 13).

Figure 1-228 Remove the tray-pickup drive assembly (8 of 10)



9. Remove three screws (callout 14).

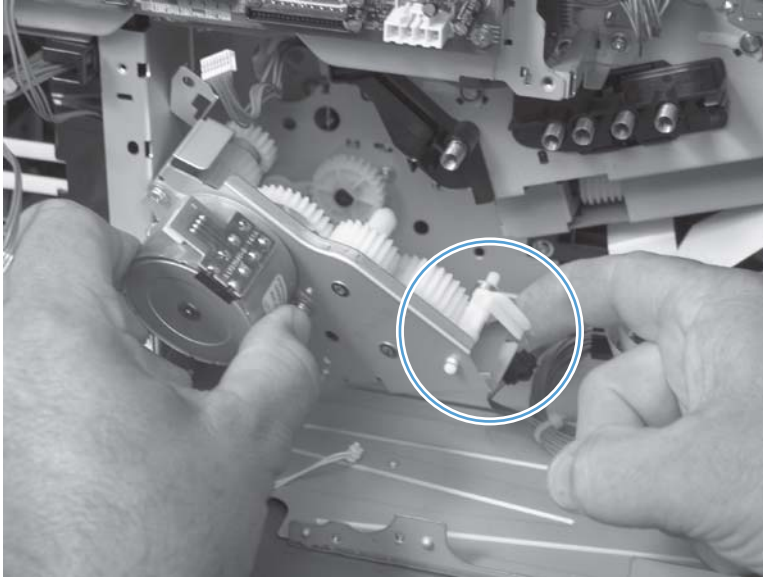
Figure 1-229 Remove the tray-pickup drive assembly (9 of 10)



10. Carefully remove the assembly.

⚠ CAUTION: The gears, arm, and spring on the assembly are not captive. Use your finger to secure the arm and spring as you remove the assembly. If the gears, arm, or spring become dislodged, see [Reinstall the tray-pickup drive assembly on page 162](#).

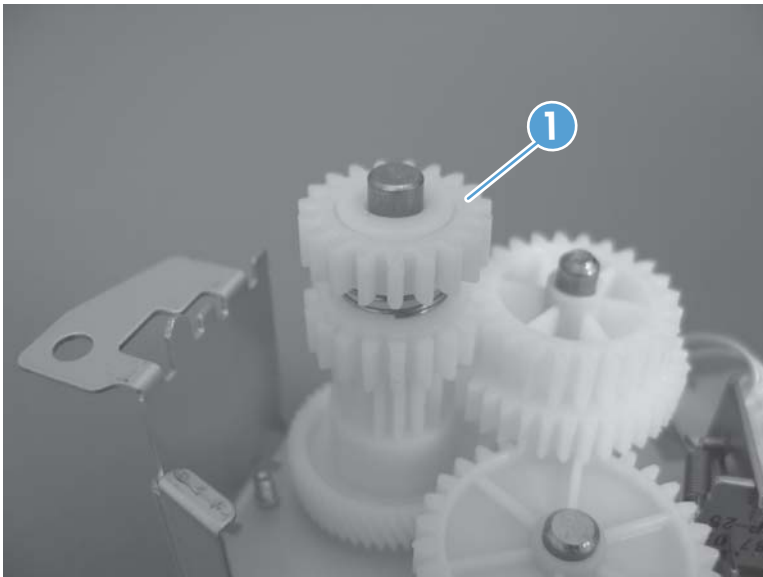
Figure 1-230 Remove the tray-pickup drive assembly (10 of 10)



Reinstall the tray-pickup drive assembly

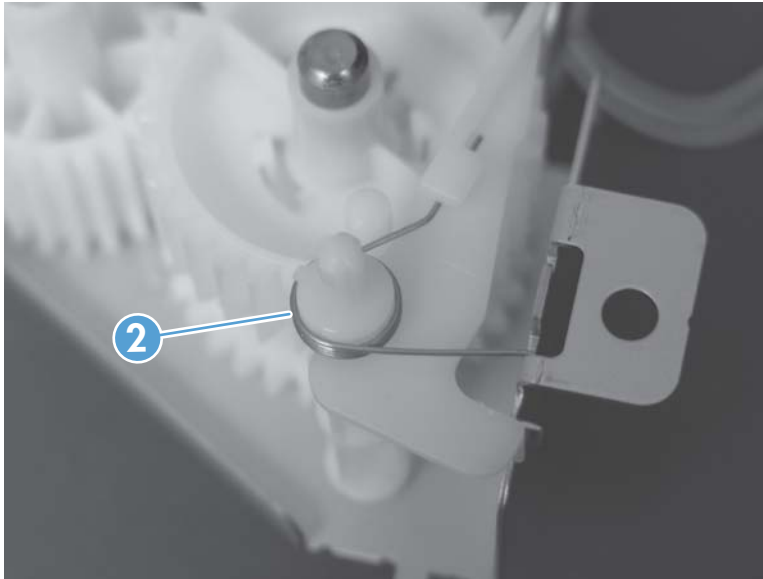
1. Make sure that the spring-loaded gear (callout 1) is correctly installed.

Figure 1-231 Reinstall the tray-pickup drive assembly (1 of 3)



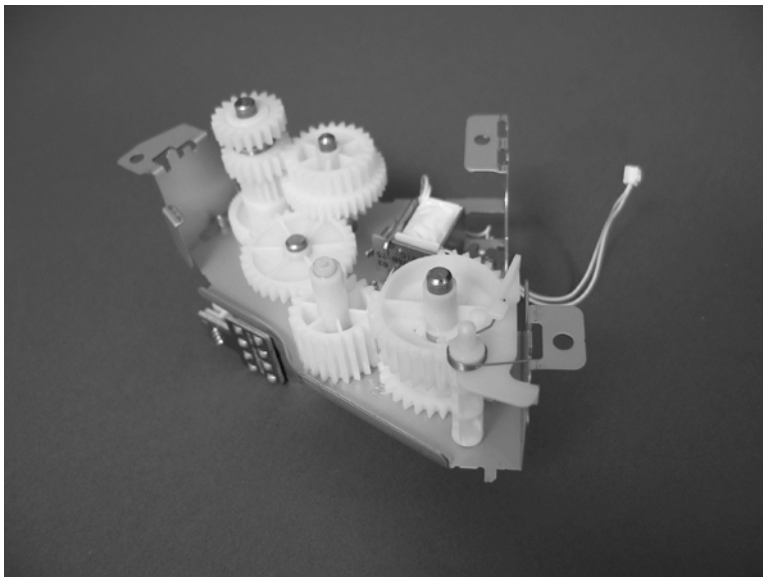
2. Make sure that the spring (callout 2) is correctly installed.

Figure 1-232 Reinstall the tray-pickup drive assembly (2 of 3)



3. Make sure that the gears, arm, and spring are correctly installed.

Figure 1-233 Reinstall the tray-pickup drive assembly (3 of 3)



Tray-pickup assembly

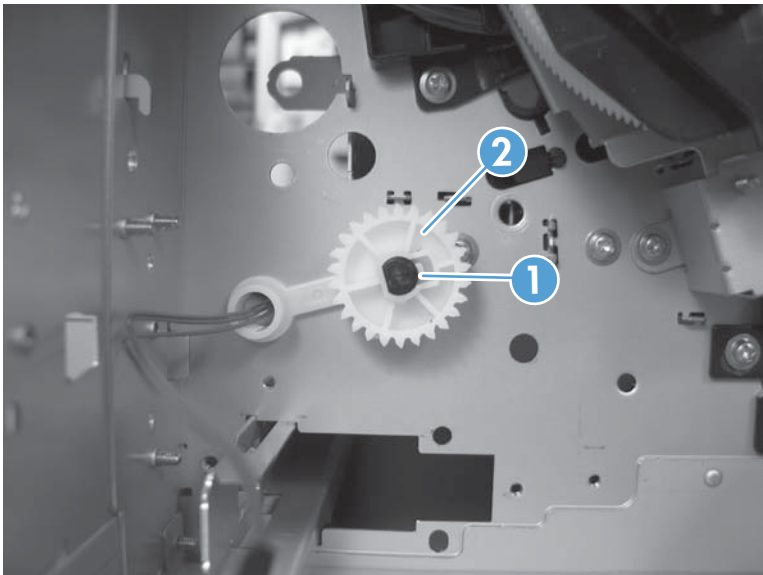
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- Registration density (RD) sensor assembly. See [Registration density \(RD\) sensor assembly on page 137](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- Tray-pickup drive assembly. See [Tray-pickup drive assembly on page 157](#).

Remove the tray-pickup assembly

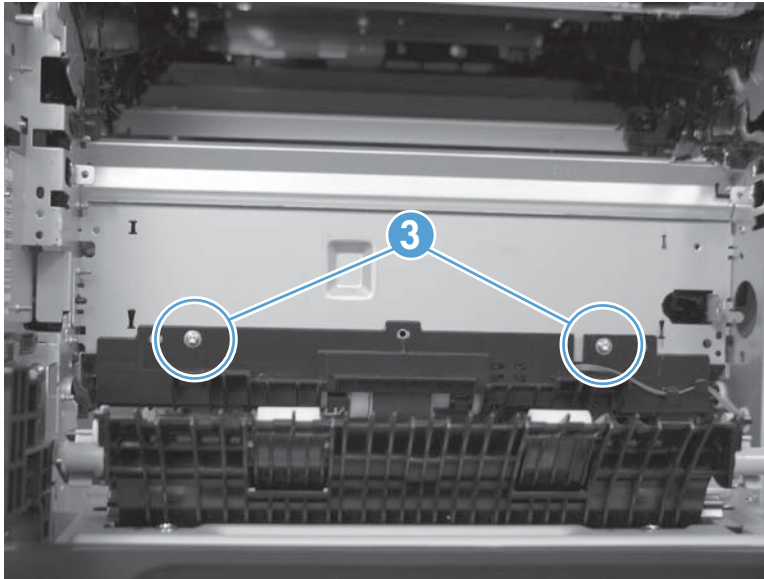
1. Release one tab (callout 1), and then remove the gear (callout 2).

Figure 1-234 Remove the tray-pickup assembly (1 of 3)



2. Remove two screws (callout 3).

Figure 1-235 Remove the tray-pickup assembly (2 of 3)



3. Remove the assembly.

Figure 1-236 Remove the tray-pickup assembly (3 of 3)



Laser/scanner assembly (Y/M)

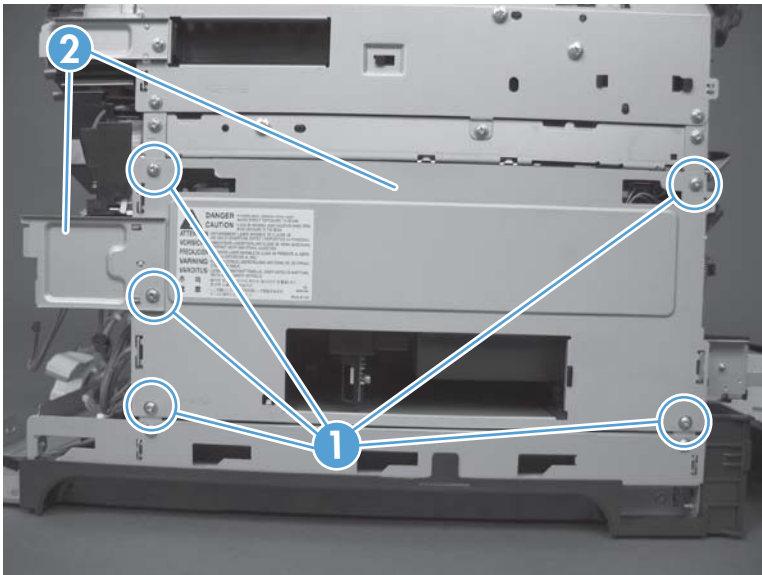
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).

Remove the laser/scanner assembly (Y/M)

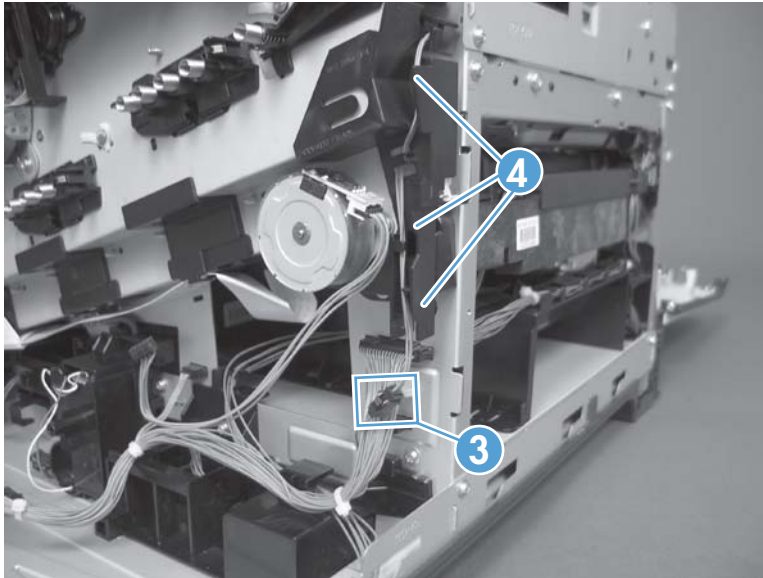
1. Remove five screws (callout 1), and then remove the sheet-metal plate (callout 2).

Figure 1-237 Remove the laser/scanner assembly (Y/M) (1 of 12)



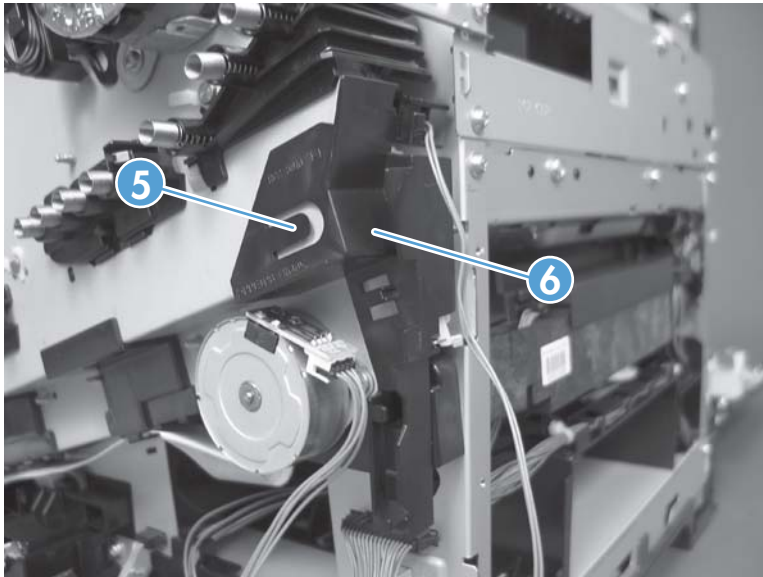
2. Disconnect in-line one connector (callout 3), and then release the wire harnesses from the guide (callout 4).

Figure 1-238 Remove the laser/scanner assembly (Y/M) (2 of 12)



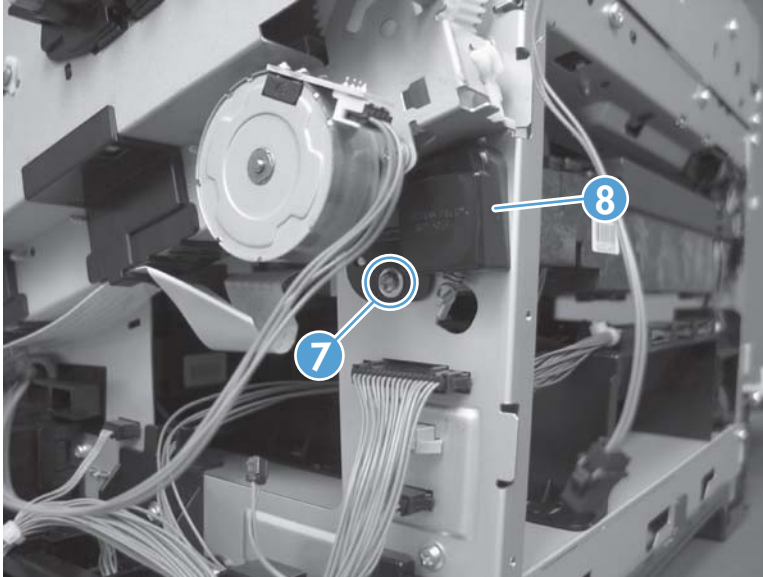
3. Release one tab (callout 5), and then remove the guide (callout 6).

Figure 1-239 Remove the laser/scanner assembly (Y/M) (3 of 12)



4. Remove one screw (callout 7), and then remove the cover (callout 8).

Figure 1-240 Remove the laser/scanner assembly (Y/M) (4 of 12)

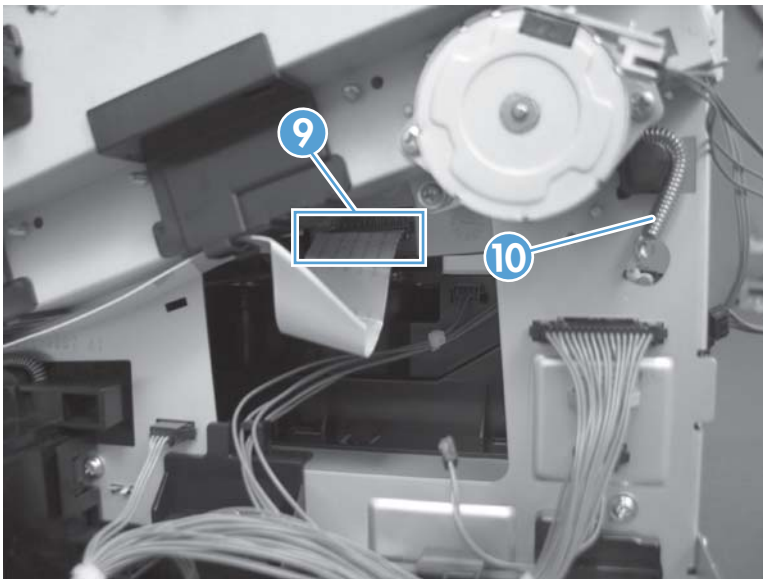


5. Disconnect one FFC (callout 9), and then release one spring (callout 10).

CAUTION: The spring is not captive. Do not lose the spring when it is removed. Use a pair of needle-nose pliers to safely retain the spring when it is removed. Do not use a flat blade screwdriver to remove the spring; the spring could forcibly leave the product and strike you.

Reinstallation tip When you reinstall the spring, make sure that the laser/scanner fits tightly up against the product chassis, and make sure that the FFC is fully seated in the connector. The locator tabs on the front and rear of the scanner must be firmly seated in the slots in the chassis.

Figure 1-241 Remove the laser/scanner assembly (Y/M) (5 of 12)



6. Disconnect six connectors (callout 11).


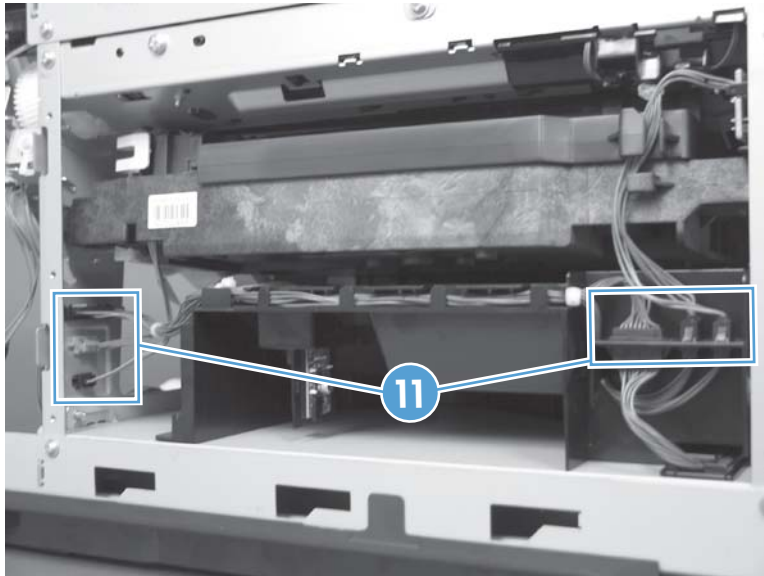
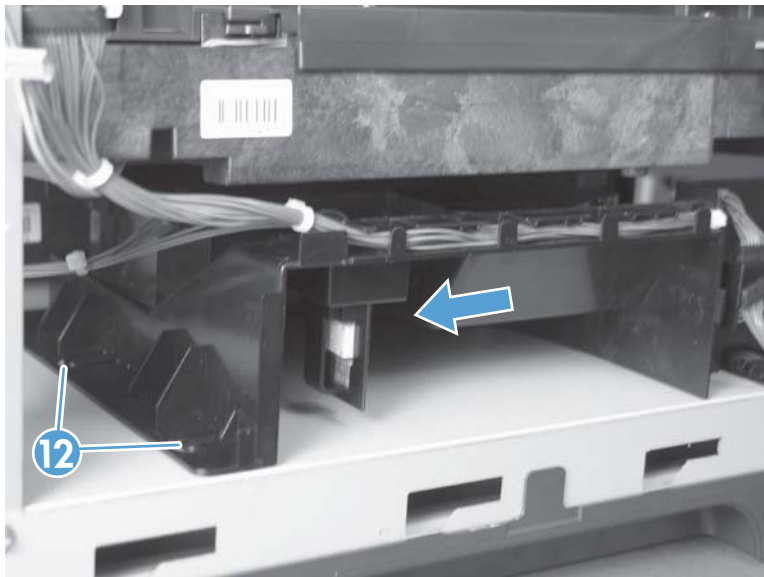
 **NOTE:** Disconnect the larger connector on the right side from the bottom. Disconnect the two smaller connectors on the right side from the top.

Figure 1-242 Remove the laser/scanner assembly (Y/M) (6 of 12)



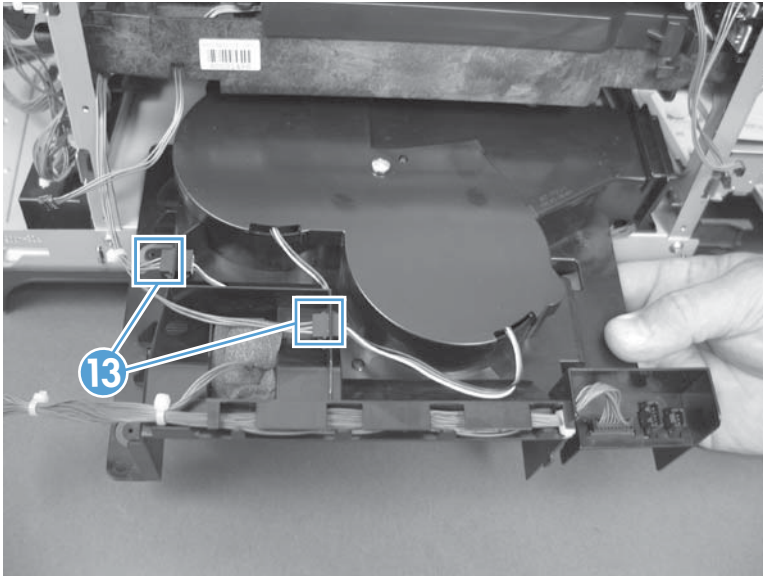
7. Release two tabs (callout 12), and then slide the fan assembly toward the power-supply side of the product to release it.

Figure 1-243 Remove the laser/scanner assembly (Y/M) (7 of 12)



8. Pull the fan assembly slightly out of the product, disconnect two connectors (callout 13), and then remove the assembly.

Figure 1-244 Remove the laser/scanner assembly (Y/M) (8 of 12)

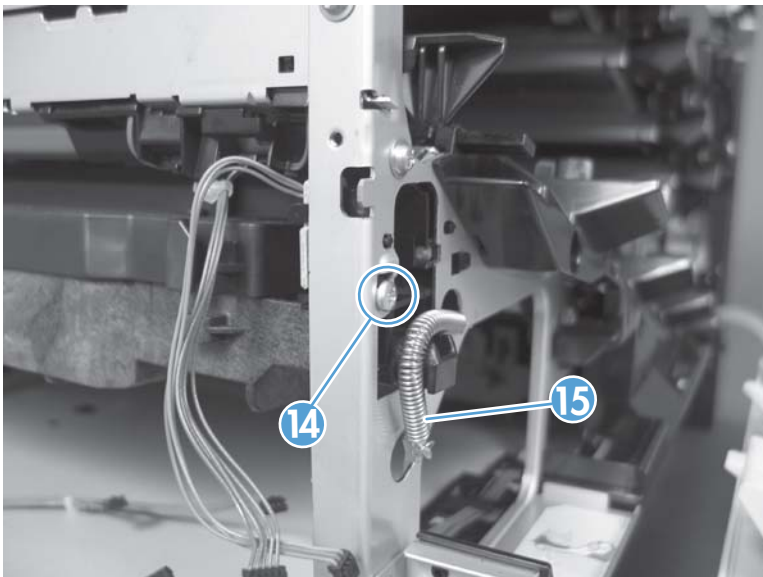


9. Remove one screw (callout 14), and then release one spring (callout 15).

CAUTION: The spring is not captive. Do not lose the spring when it is removed. Use a pair of needle-nose pliers to safely retain the spring when it is removed. Do not use a flat blade screwdriver to remove the spring; the spring could forcibly leave the product and strike you.

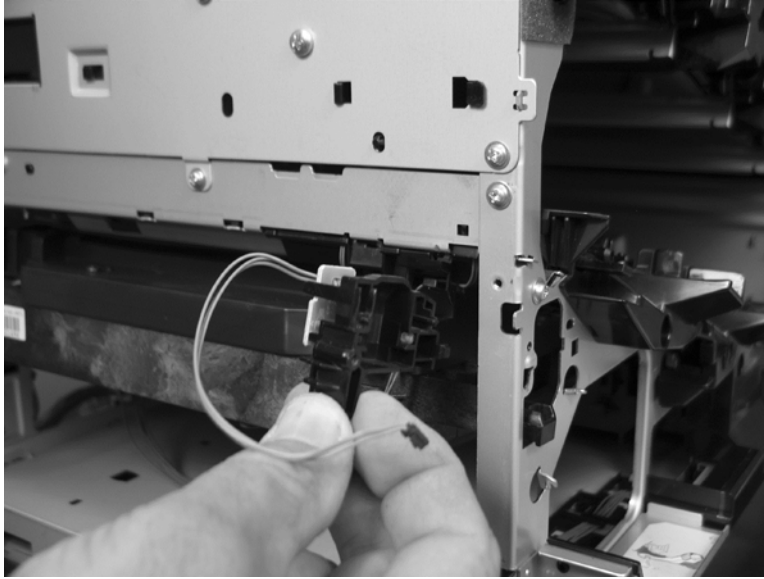
Reinstallation tip When the laser/scanner is properly positioned in the chassis, the plastic parts which protrude at the front and rear of the product will be firmly seated against the locator tabs on the chassis. Verify that the assembly is correctly seated, and then install the spring.

Figure 1-245 Remove the laser/scanner assembly (Y/M) (9 of 12)



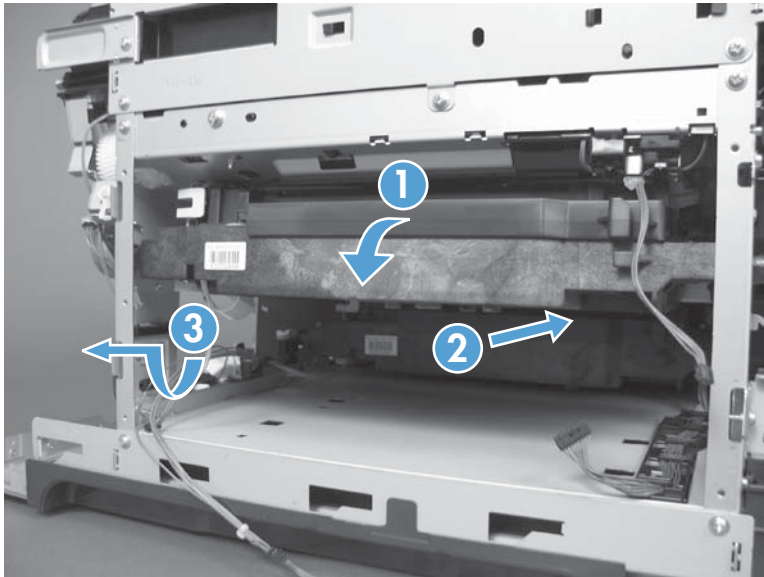
10. Remove the toner collection sensor.

Figure 1-246 Remove the laser/scanner assembly (Y/M) (10 of 12)



11. Rotate the front of the laser/scanner assembly down (callout 1), and then slide it toward the right (callout 2). Lower the left corner, and then rotate the left corner out of the product (callout 3).

Figure 1-247 Remove the laser/scanner assembly (Y/M) (11 of 12)



12. Pull the laser/scanner assembly straight out of the product to remove it.

Figure 1-248 Remove the laser/scanner assembly (Y/M) (12 of 12)



Laser/scanner assembly (C/Bk)

Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- Lifter drive assembly. See [Lifter-drive assembly on page 155](#).
- Laser/scanner assembly (Y/M). See [Laser/scanner assembly \(Y/M\) on page 166](#).

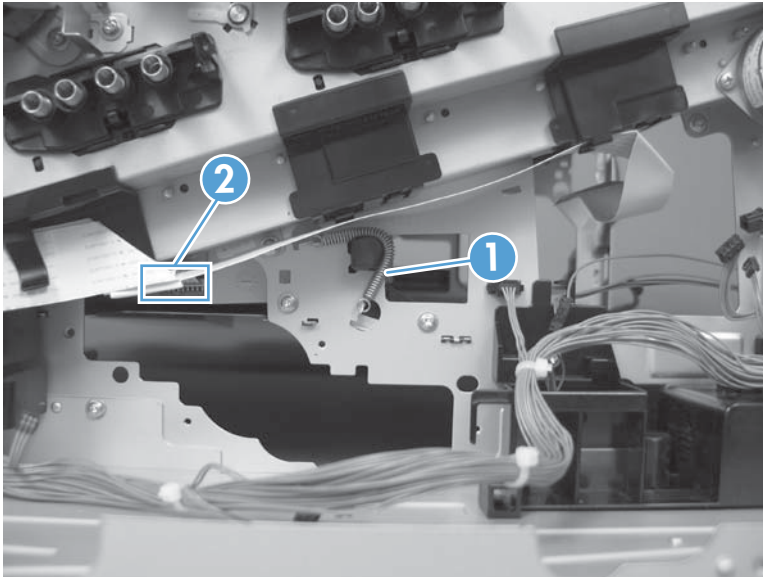
Remove the laser/scanner assembly (C/Bk)

1. Release one spring (callout 1), and then disconnect one connector (callout 2).

⚠ CAUTION: The spring is not captive. Do not lose the spring when it is removed. Use a pair of needle-nose pliers to safely retain the spring when it is removed. Do not use a flat blade screwdriver to remove the spring; the spring could forcibly leave the product and strike you.

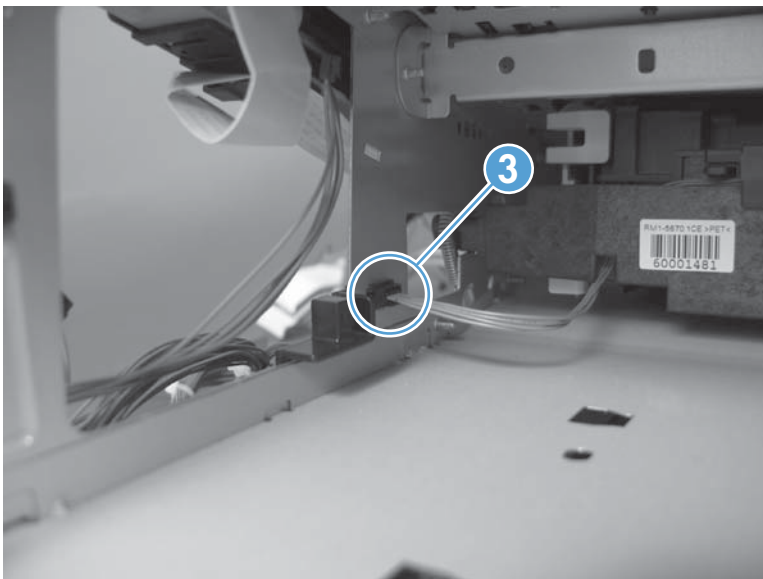
💡 Reinstallation tip When you reinstall the spring, make sure that the laser/scanner fits tightly up against the product chassis, and make sure that the FFC is fully seated in the connector. The locator tabs on the front of the scanner must be firmly seated in the slots in the chassis.

Figure 1-249 Remove the laser/scanner assembly (C/Bk) (1 of 7)



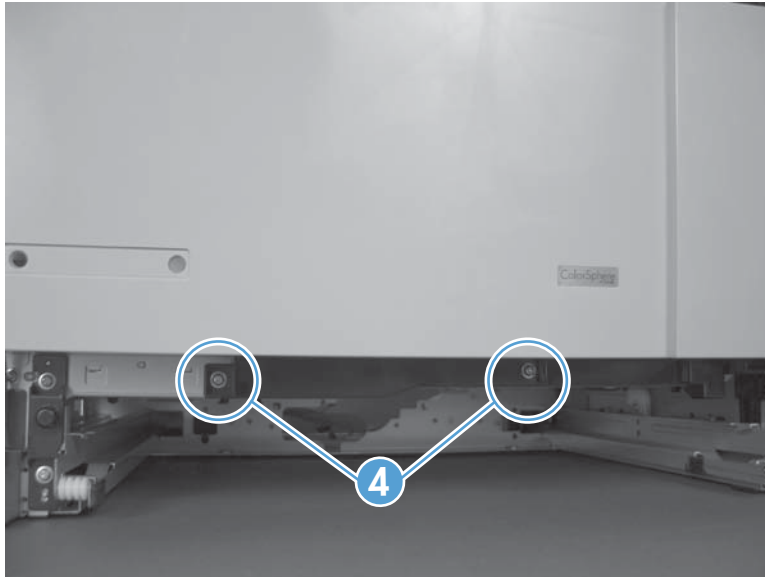
2. Disconnect one connector (callout 3).

Figure 1-250 Remove the laser/scanner assembly (C/Bk) (2 of 7)



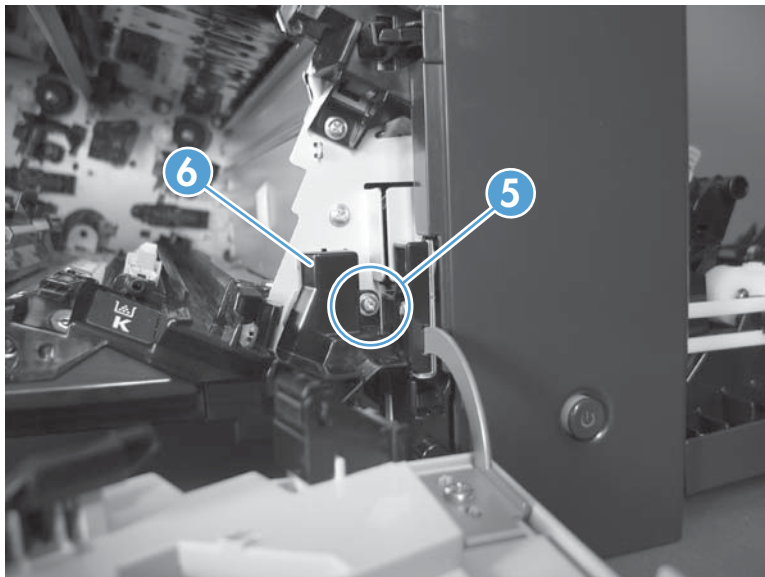
3. Remove two screws (callout 4) located below the front door.

Figure 1-251 Remove the laser/scanner assembly (C/Bk) (3 of 7)



4. Open the front door, and then remove one screw (callout 5) and the cover (callout 6).

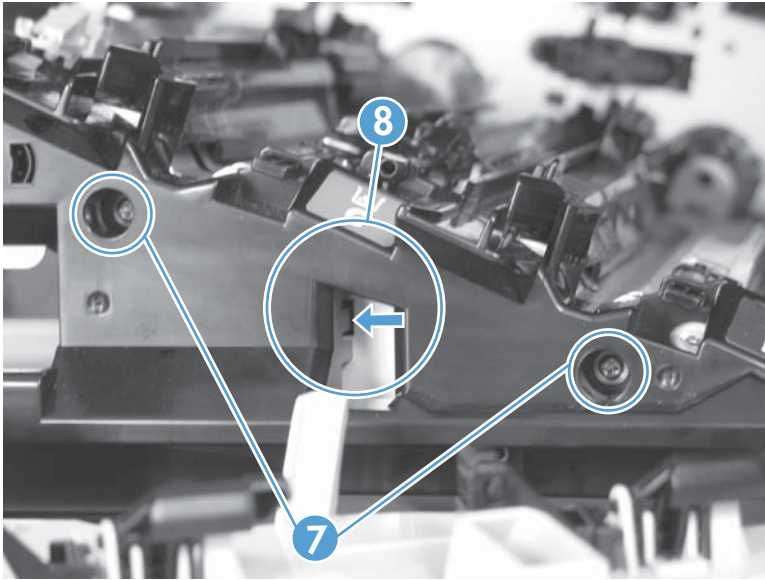
Figure 1-252 Remove the laser/scanner assembly (C/Bk) (4 of 7)



5. Remove two screws (callout 7). Use your finger to release the locking tab (callout 8), and then remove the cover.

⚠ CAUTION: Be careful. The PGC actuators are easily dislodged when the cover is removed. See [Figure 1-256 Reinstall the PGC actuators \(1 of 5\) on page 178](#). To reinstall the actuators, see [Reinstall the protective glass cleaner \(PGC\) actuators on page 178](#).

Figure 1-253 Remove the laser/scanner assembly (C/Bk) (5 of 7)

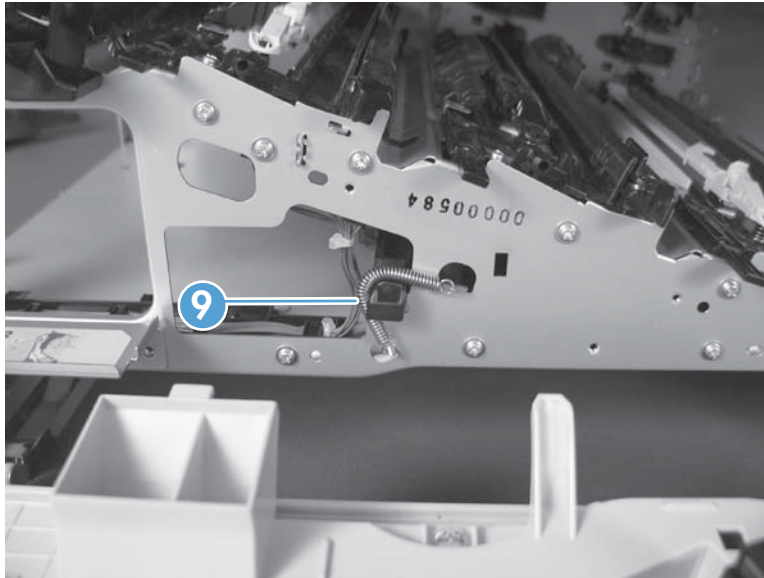


6. Release one spring (callout 9).

⚠ CAUTION: The spring is not captive. Do not lose the spring when it is removed. Use a pair of needle-nose pliers to safely retain the spring when it is removed. Do not use a flat blade screwdriver to remove the spring; the spring could forcibly leave the product and strike you.

💡 Reinstallation tip When you reinstall the spring, make sure that the laser/scanner fits tightly up against the product chassis.

Figure 1-254 Remove the laser/scanner assembly (C/Bk) (6 of 7)



7. Rotate the corner of the assembly away from the product until you can see the PCA, and then remove the assembly from the product.


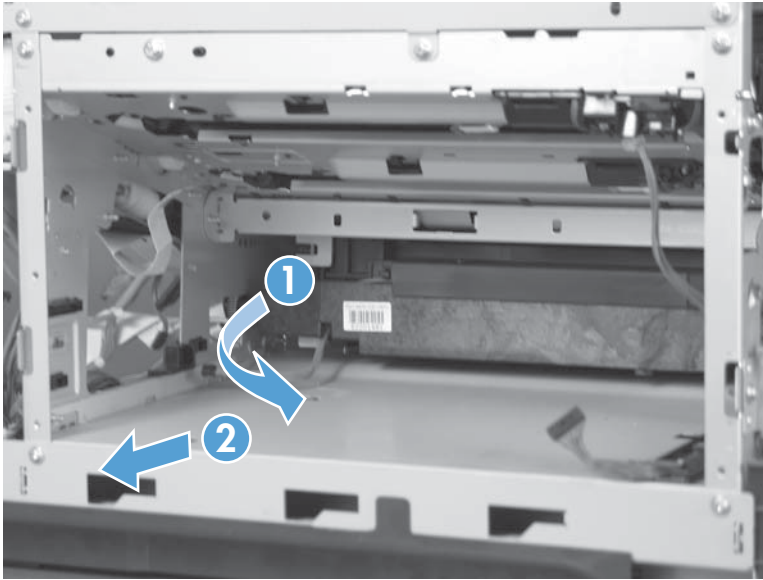
 **Reinstallation tip** When the laser/scanner is properly positioned in the chassis, the plastic parts which protrude at the front and rear of the product will be firmly seated against the locator tabs on the chassis. Verify that the assembly is correctly seated, and then install the spring.

Figure 1-255 Remove the laser/scanner assembly (C/Bk) (7 of 7)



Reinstall the protective glass cleaner (PGC) actuators

1. The following figure shows a dislodged PGC actuator.


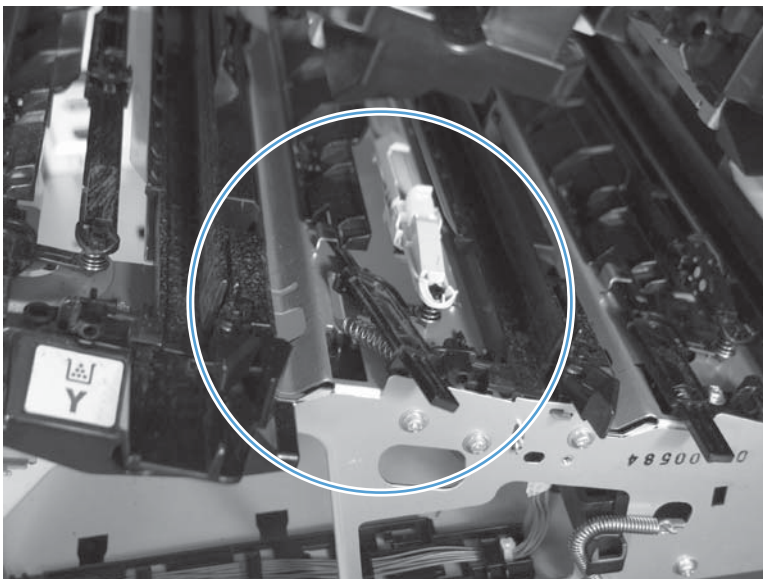
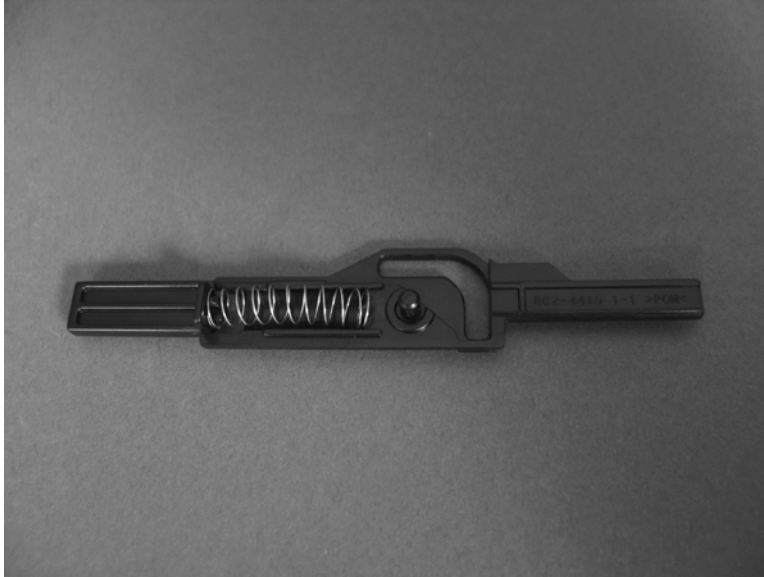
 **TIP:** If the actuator and spring are only slightly dislodged, you might be able to easily push them back into place.

Figure 1-256 Reinstall the PGC actuators (1 of 5)



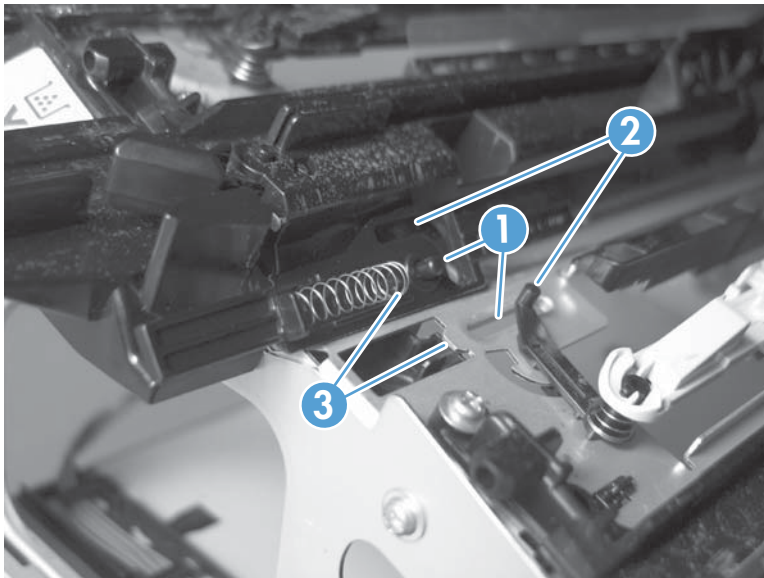
2. Remove the actuator and spring from the product. Install the spring on the actuator.

Figure 1-257 Reinstall the PGC actuators (2 of 5)



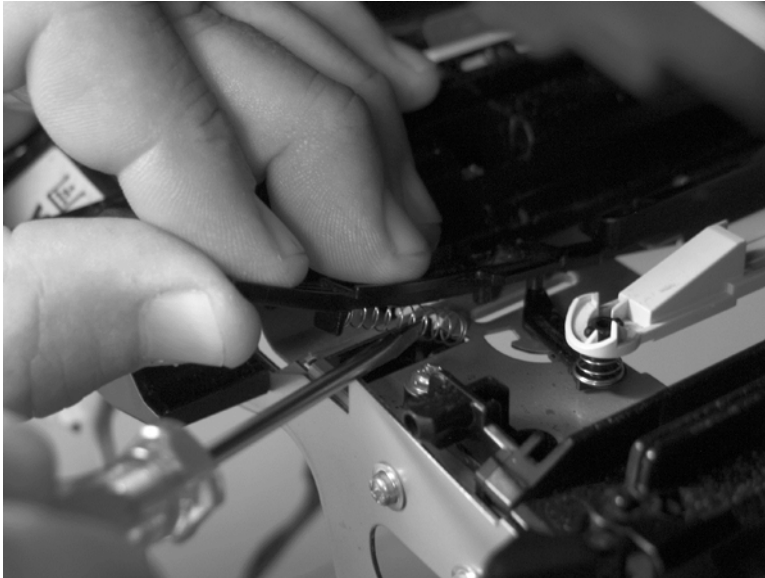
3. Before proceeding, take note of the following:
 - **Callout 1:** The pin on the actuator will be installed into the slot in the chassis.
 - **Callout 2:** The pin on the pivot arm will be installed into the slot on the actuator.
 - **Callout 3:** The end of the spring will be installed onto the tab on the chassis.

Figure 1-258 Reinstall the PGC actuators (3 of 5)



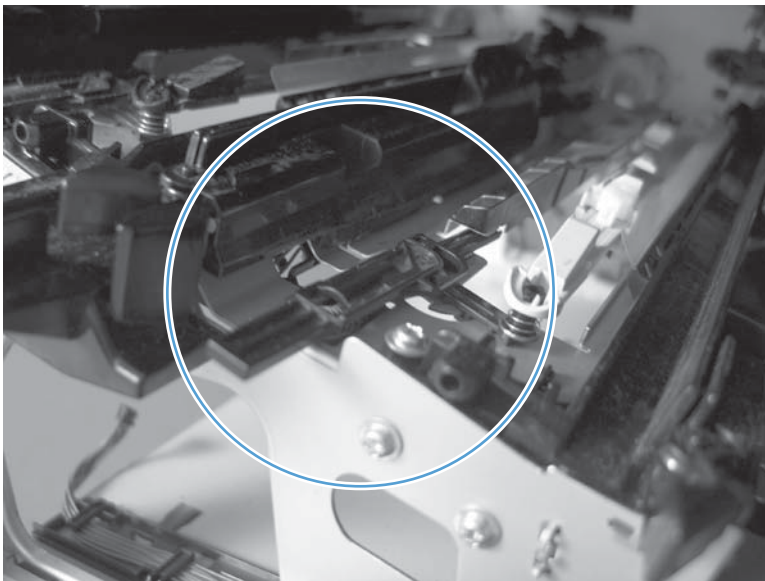
4. Place the end of the actuator into the PGC rod, and then use a small flat blade screw driver to fasten the end of the spring on the tab on the chassis.

Figure 1-259 Reinstall the PGC actuators (4 of 5)



5. Push down on the actuator to seat it into place. Verify that the actuators is correctly installed. The PGC actuator should freely move when you push in on the actuator.

Figure 1-260 Reinstall the PGC actuators (5 of 5)



High-voltage power supply upper

Before proceeding, remove the following components:

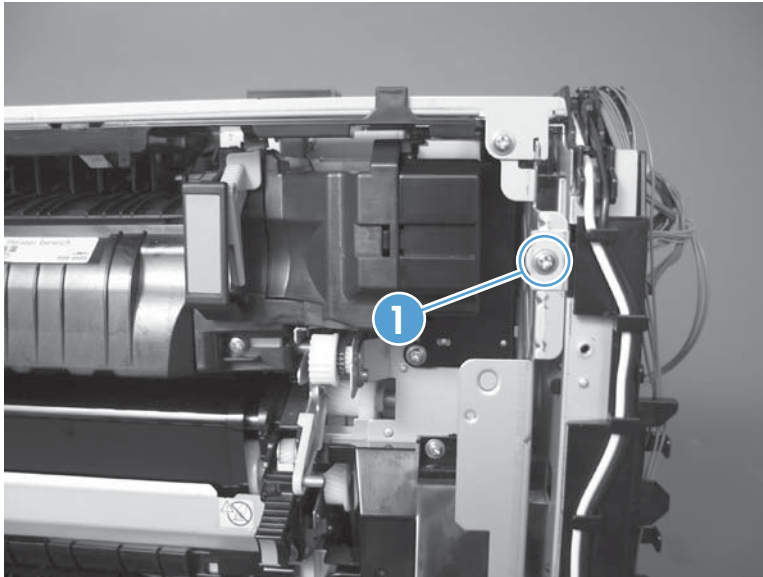
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).

Remove the high-voltage power supply upper

 **CAUTION:**  ESD-sensitive part.

1. Remove one screw (callout 1).

Figure 1-261 Remove the high-voltage power supply upper (1 of 5)



2. Remove four screws (callout 2), and then rotate the sheet-metal plate away from the power supply.


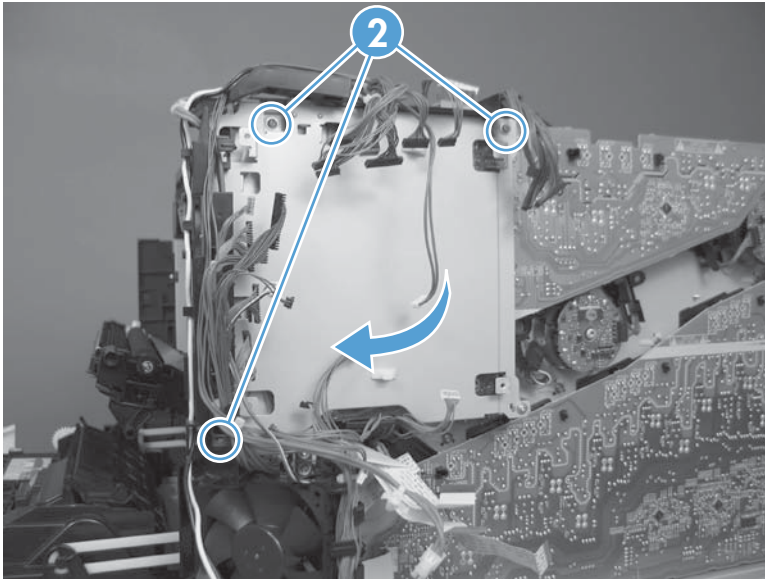
 **NOTE:** You do not need to completely remove the sheet-metal plate to access the power supply.

Figure 1-262 Remove the high-voltage power supply upper (2 of 5)



3. Disconnect two connectors (J201, J202; callout 3) from the back side of the power supply.


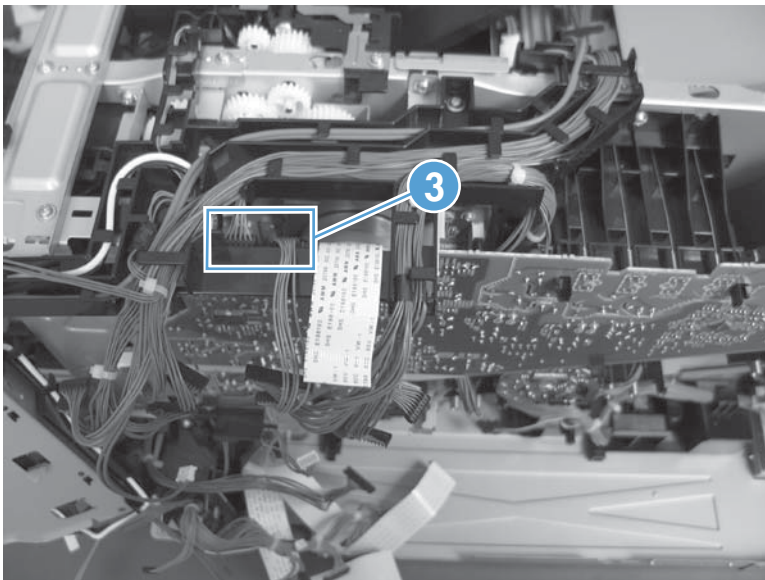
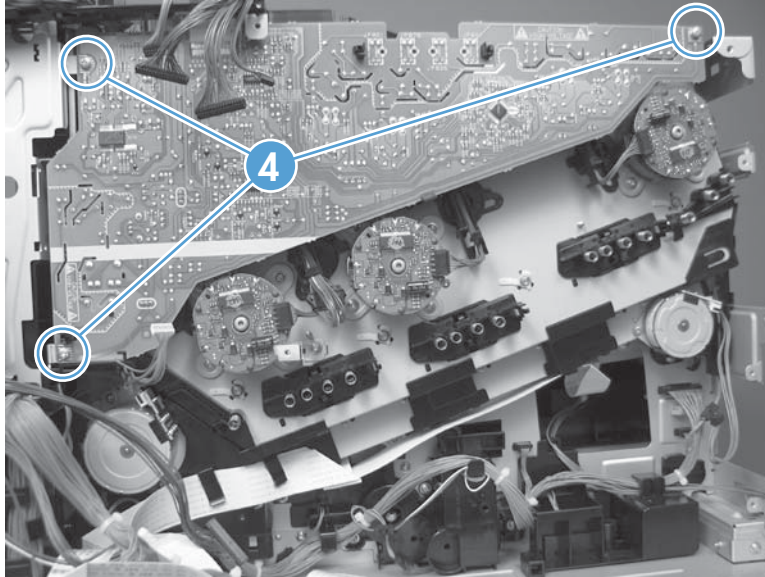
 **NOTE:** For clarity, the figure in this step shows the ADF and scanner removed. Carefully reach under these components to access the two connectors.

Figure 1-263 Remove the high-voltage power supply upper (3 of 5)



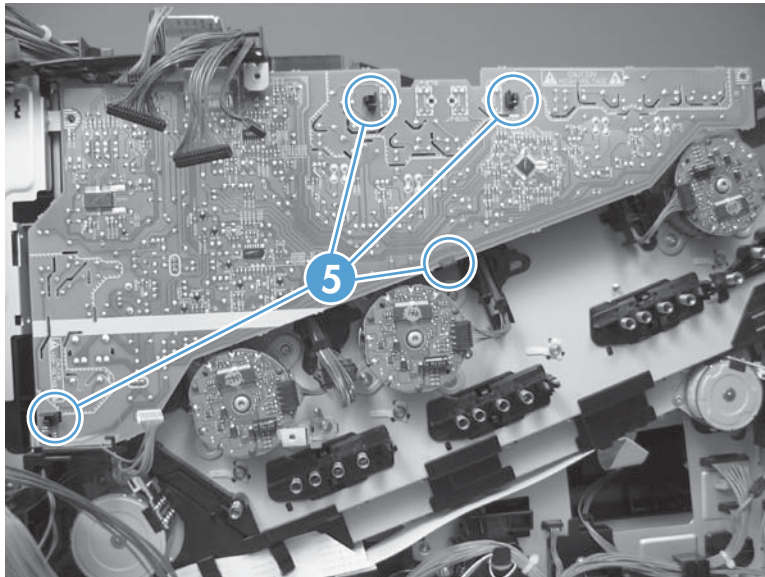
4. Remove three screws (callout 4).

Figure 1-264 Remove the high-voltage power supply upper (4 of 5)




5. Release four tabs (callout 5), and then remove the power supply.

Figure 1-265 Remove the high-voltage power supply upper (5 of 5)



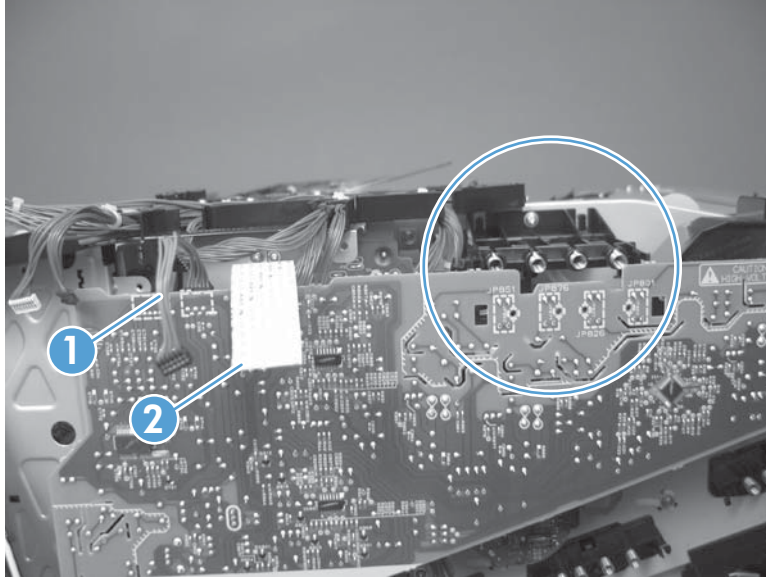
Reinstall the high-voltage power supply upper

When you reinstall the power supply, look through the holes in the PCA and make sure that the high-voltage contact springs are correctly seated against the PCA.

 **NOTE:** One wire harness (callout 1) is disconnected at both ends. Do not lose the wire harness.

Position the FFC (callout 2) over the cable guide when you reinstall the power supply.

Figure 1-266 Reinstall the high-voltage power supply upper



Drum motor 1

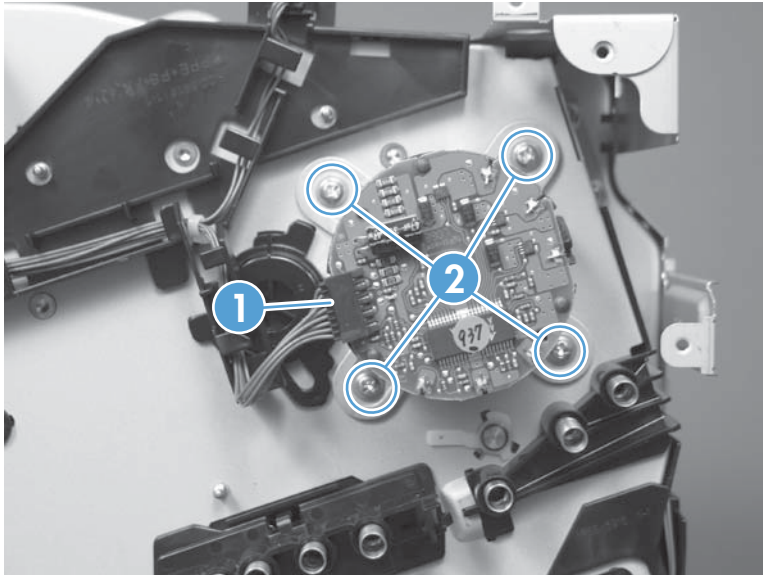
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).

Remove the drum motor 1

- ▲ Disconnect one connector (callout 1), remove four screws (callout 2), and then remove the motor.

Figure 1-267 Remove the drum motor 1



Drum motor 2 or drum motor 3

Before proceeding, remove the following components:

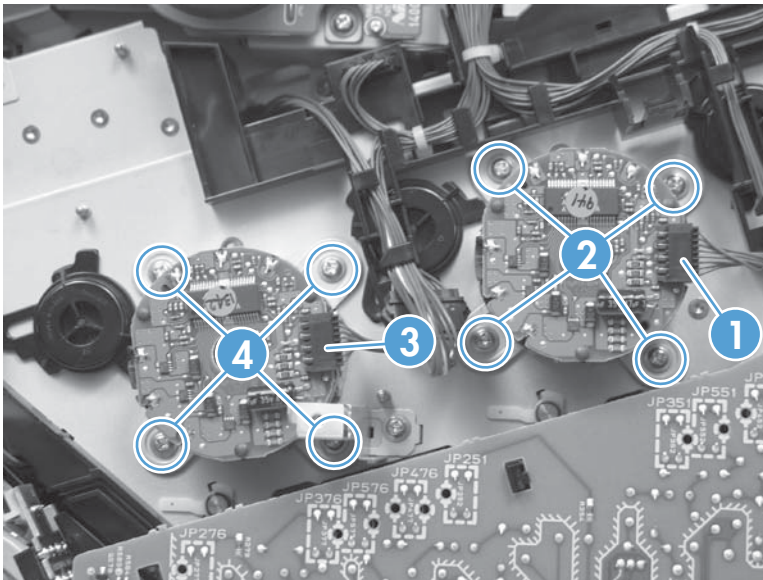
- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).

Remove the drum motor 2 or drum motor 3

▲ Do one of the following:

- Remove drum motor 2: Disconnect one connector (callout 1), remove four screws (callout 2), and then remove the motor.
- Remove drum motor 3: Disconnect one connector (callout 3), remove four screws (callout 4), and then remove the motor.

Figure 1-268 Remove the drum motor 2 or drum motor 3



Fuser motor

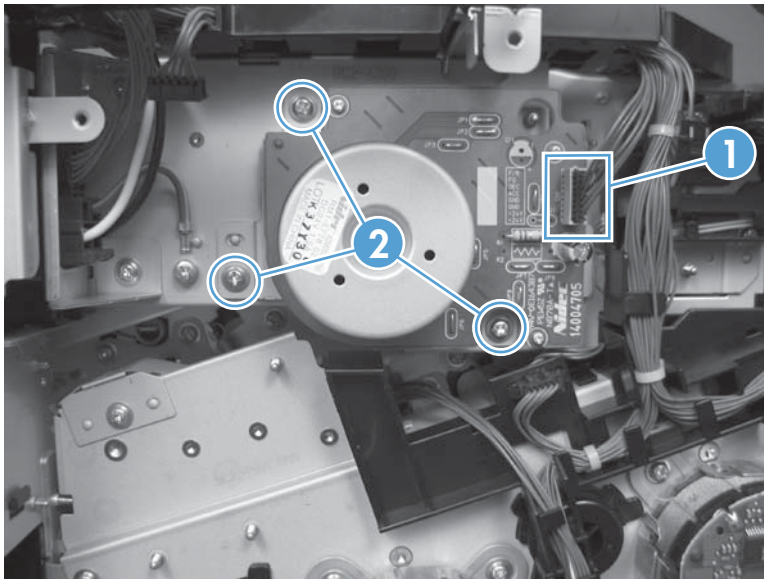
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).

Remove the fuser motor

Disconnect one connector (callout 1), remove three screws (callout 2), and then remove the motor.

Figure 1-269 Remove the fuser motor



Main-drive assembly

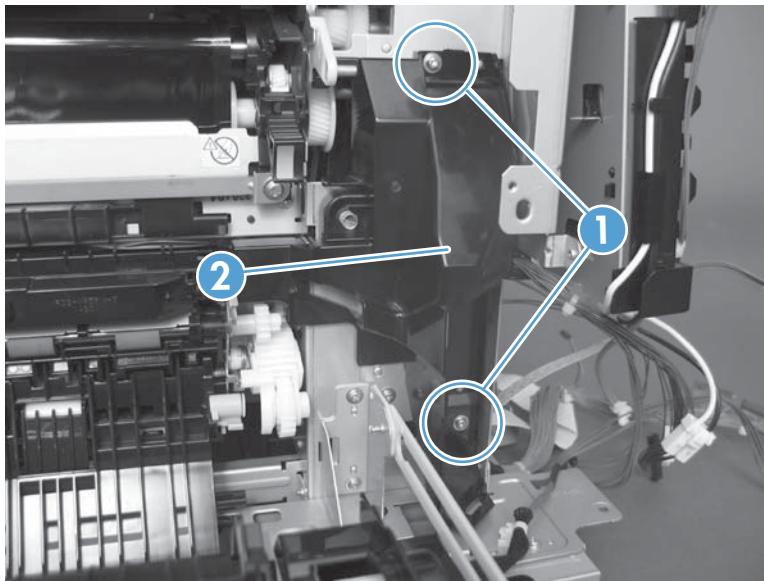
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Fuser. See [Fuser on page 24](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).
- Power-supply fan and fan duct. See [Power-supply fan and fan duct on page 141](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).

Remove the main-drive assembly

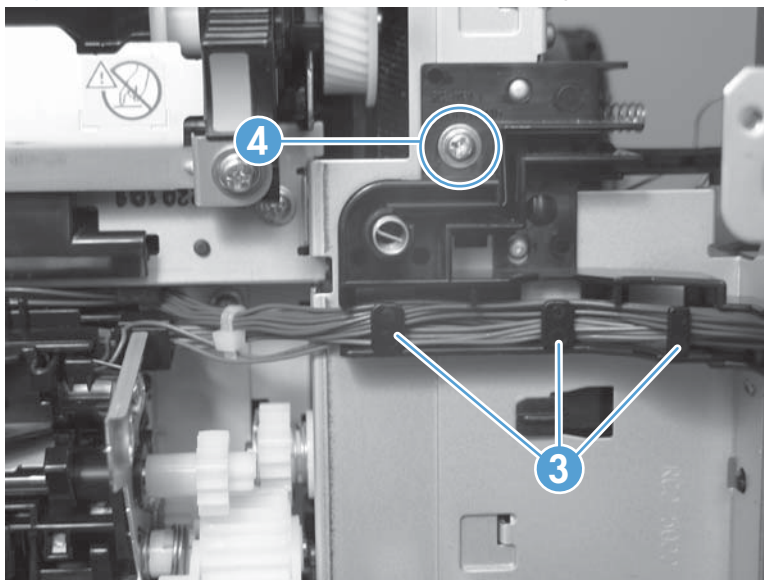
1. Remove two screws (callout 1), and then remove the cover (callout 2).

Figure 1-270 Remove the main-drive assembly (1 of 7)



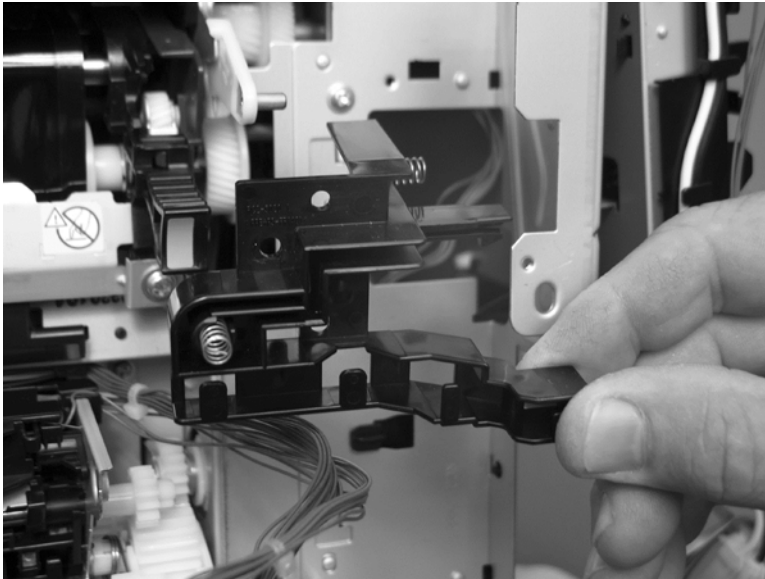
2. Release the wire harnesses from the guide (callout 3), and then remove one screw (callout 4).

Figure 1-271 Remove the main-drive assembly (2 of 7)



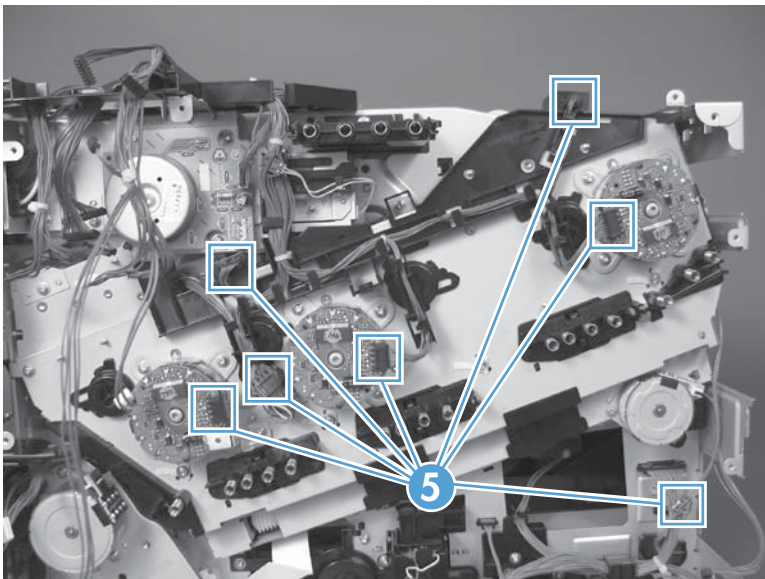
3. Lift the high-voltage bracket up to release it, and then remove the bracket.

Figure 1-272 Remove the main-drive assembly (3 of 7)



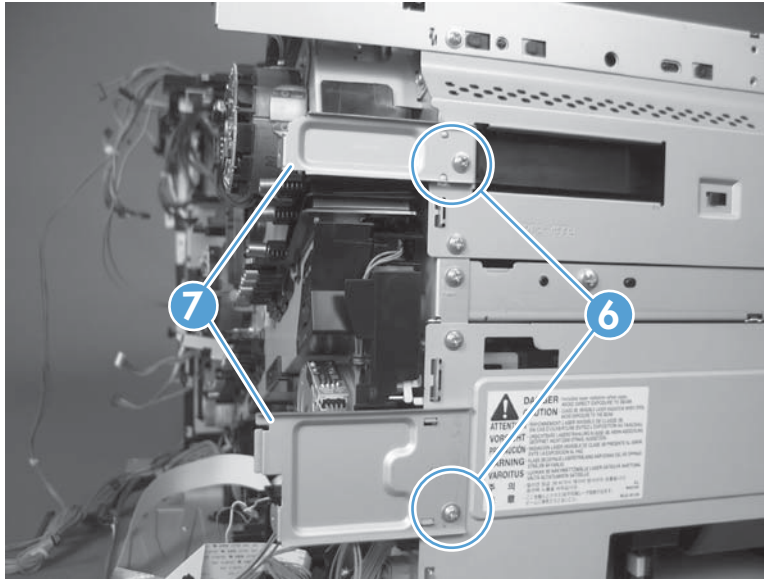
4. Disconnect seven connectors (callout 5), and then release the wire harnesses from the guides.

Figure 1-273 Remove the main-drive assembly (4 of 7)



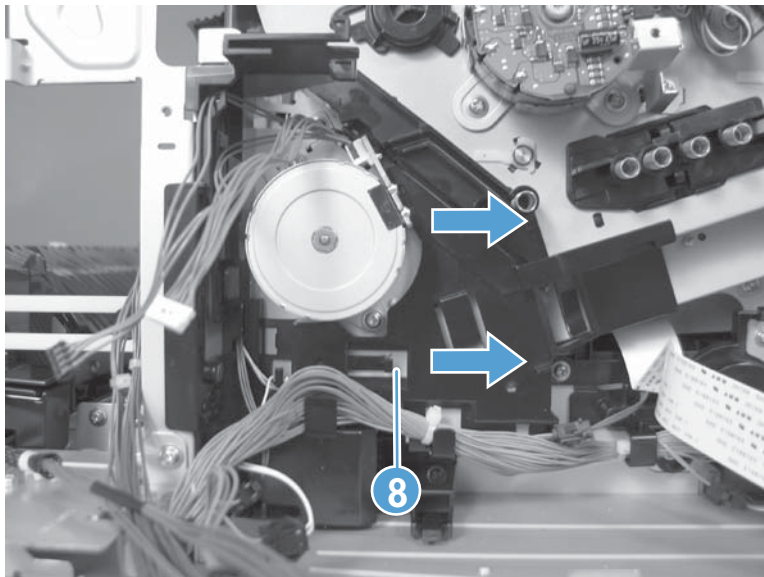
5. Remove two screws (callout 6), and then remove the sheet-metal plates (callout 7).

Figure 1-274 Remove the main-drive assembly (5 of 7)



6. Release the FFCs and lower wiring harness from the guide, and then release one tab (callout 8) and remove the guide.

Figure 1-275 Remove the main-drive assembly (6 of 7)

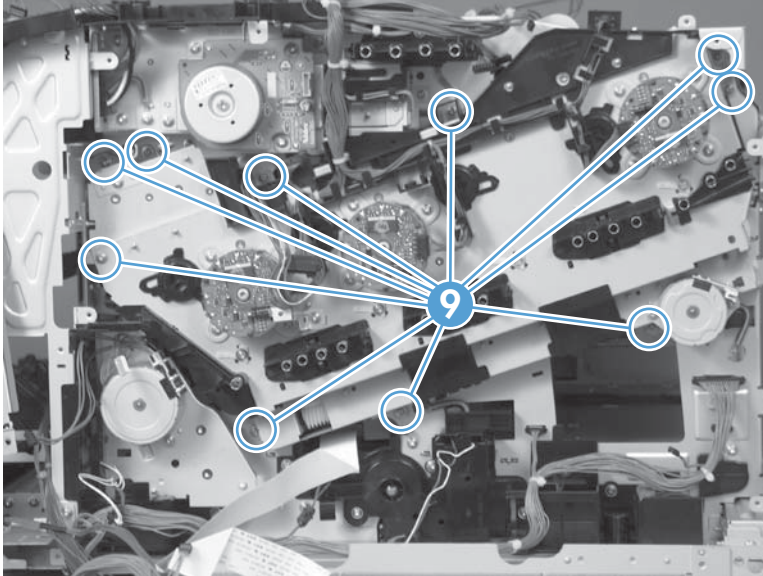


7. Remove ten screws (callout 9), and then carefully remove the assembly.

⚠ CAUTION: Be careful when you remove the assembly. The cams on the backside of the assembly can be dislodged. If the cams become dislodged, install them on the shafts as shown in [Figure 1-278 Reinstall the main-drive assembly \(2 of 11\) on page 193](#).

The black cam must be installed on the shaft furthest away from the developing-disengagement motor. The white cams are interchangeable.

Figure 1-276 Remove the main-drive assembly (7 of 7)



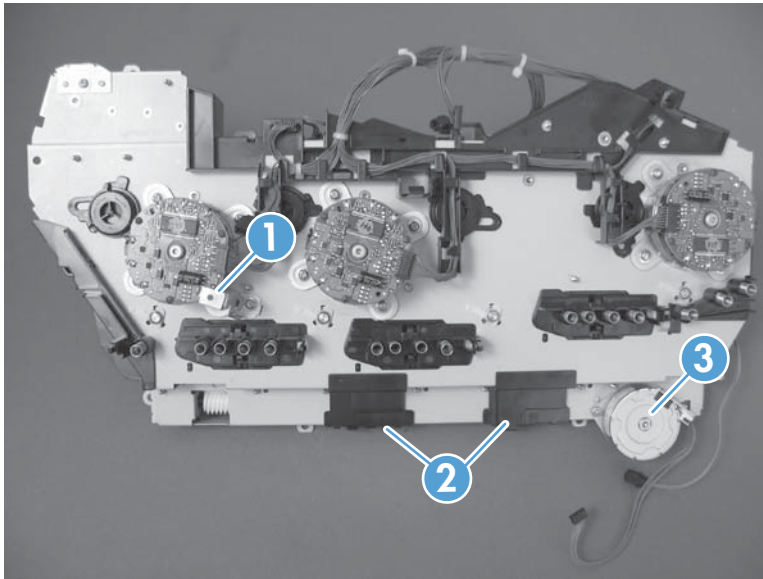
Reinstall the main-drive assembly

1. Remove the bracket (callout 1), two guides (callout 2), and the developing-disengagement motor (callout 3).

Install the bracket and guides on the replacement main-drive assembly.

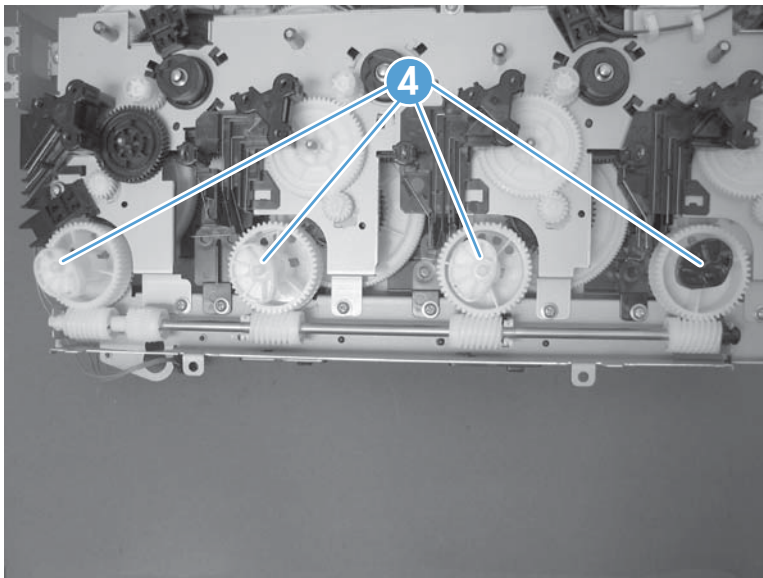
 **NOTE:** Do not install the developing-disengagement motor on the assembly (this motor must be removed from the assembly to align the main-drive cams).

Figure 1-277 Reinstall the main-drive assembly (1 of 11)



2. Locate the cams (callout 4) on the back side of the assembly.

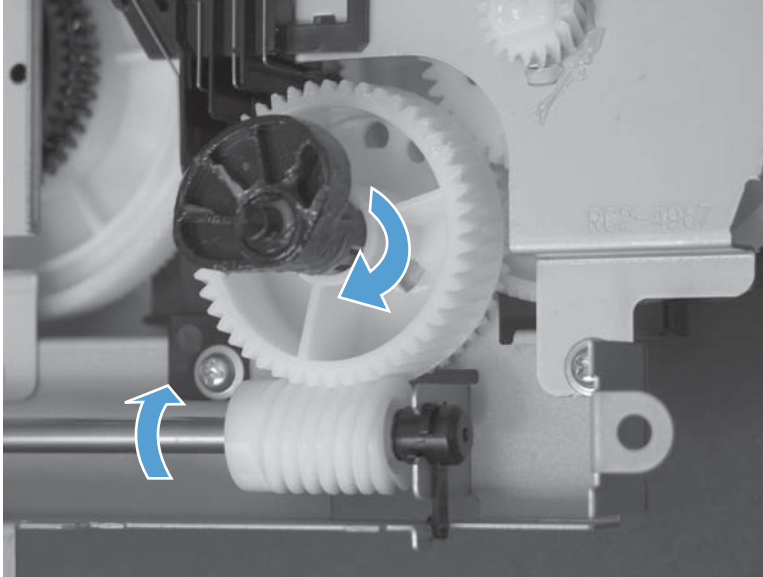
Figure 1-278 Reinstall the main-drive assembly (2 of 11)



3. Slowly rotate the shaft near the black cam.

⚠ WARNING! Do not touch the plastic gears or cams. You must not wipe away any of the grease that is applied to these components. Always rotate the gears and cams by rotating the metal drive shaft.

Figure 1-279 Reinstall the main-drive assembly (3 of 11)

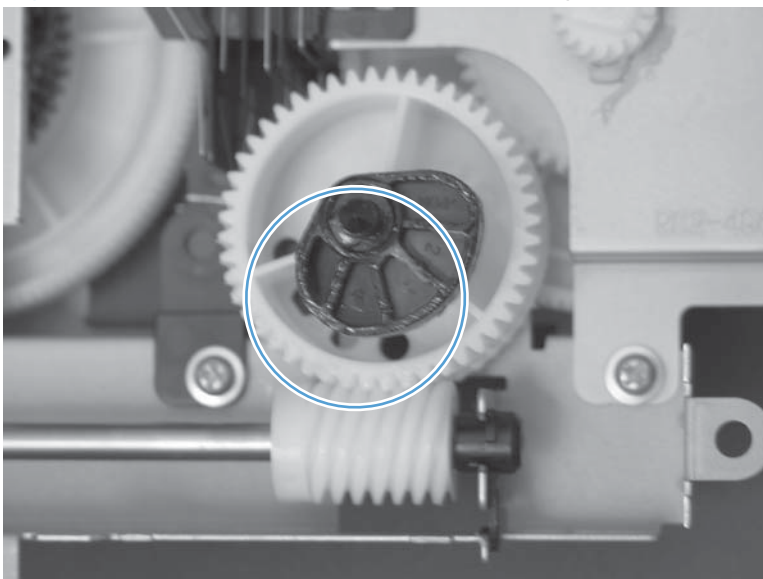


4. Continue to rotate the shaft until the holes in the black-cam gear align as shown below.


When correctly aligned, the *bottom-most* hole in the gear is aligned with a hole in the sheet-metal chassis.

📝 NOTE: The holes in the other cam gears have a different alignment. You must make sure that the holes in the black-cam gear are correctly aligned.

Figure 1-280 Reinstall the main-drive assembly (4 of 11)



5. Verify that the cams (callout 5) align correctly.

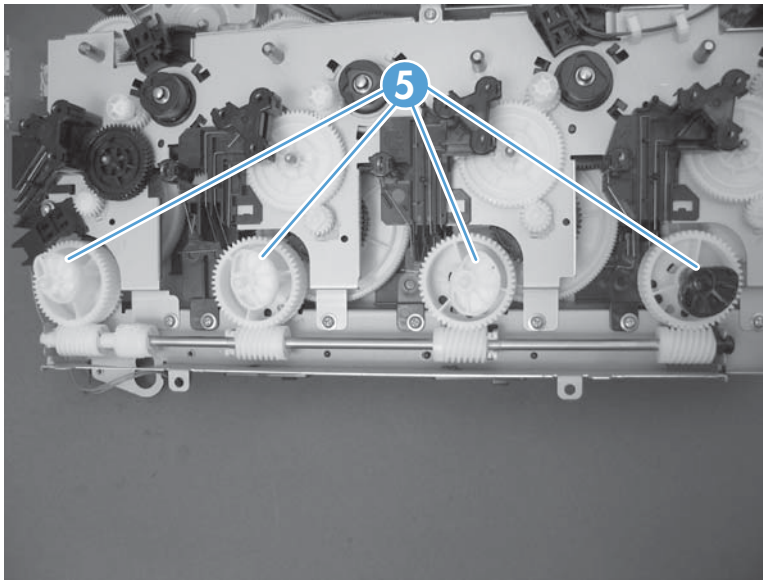
 **TIP:** The second cam in from the right (the white cam to the left of the black cam), should have the *second* hole aligned with the hole in the sheet-metal chassis.

The third cam in from the right, should have the *third* hole aligned with the hole in the sheet-metal chassis.

The fourth cam in from the right (the cam nearest the developing-disengagement motor), should have the *fourth* hole aligned with the hole in the sheet-metal chassis.

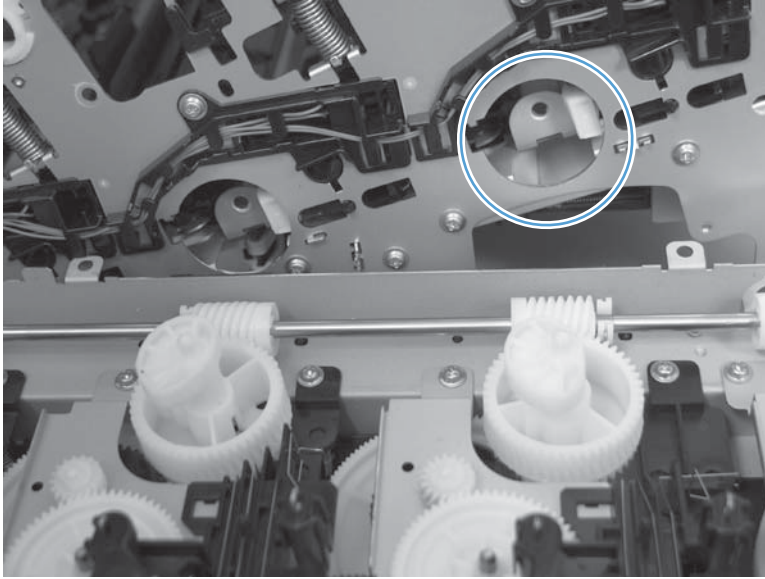
If the second, third, or fourth cams do not correctly align, do the following. Hold the long drive shaft, gently tilt the cam and gear away from the shaft to allow clearance to rotate the gear until the correct hole in the gear aligns with the hole in the chassis.

Figure 1-281 Reinstall the main-drive assembly (5 of 11)



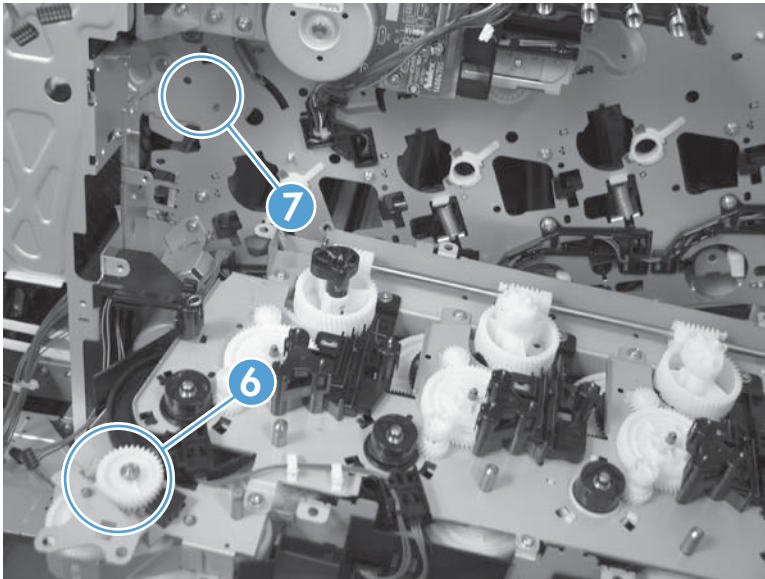
6. When the cams align correctly, they easily fit into the holes in the chassis.

Figure 1-282 Reinstall the main-drive assembly (6 of 11)



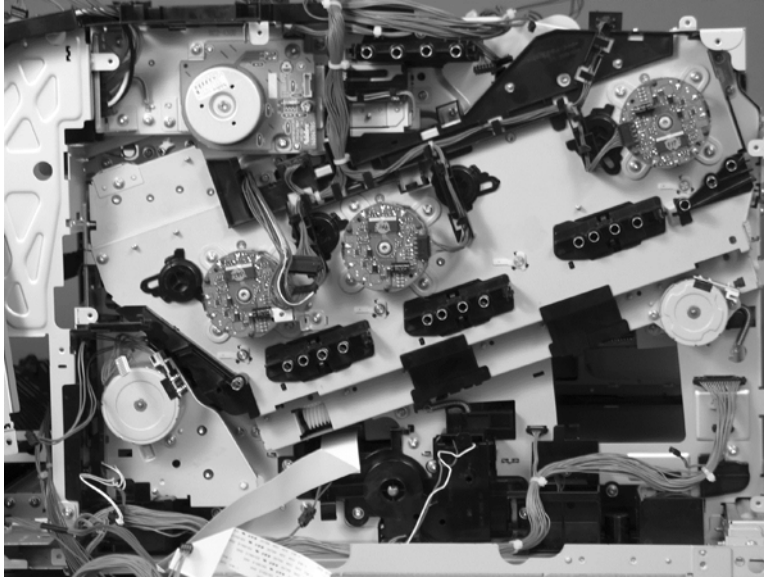
7. When the assembly is placed on the chassis, the pin on the swing gear and on the bracket (callout 6), must align with the holes in the chassis (callout 7).

Figure 1-283 Reinstall the main-drive assembly (7 of 11)



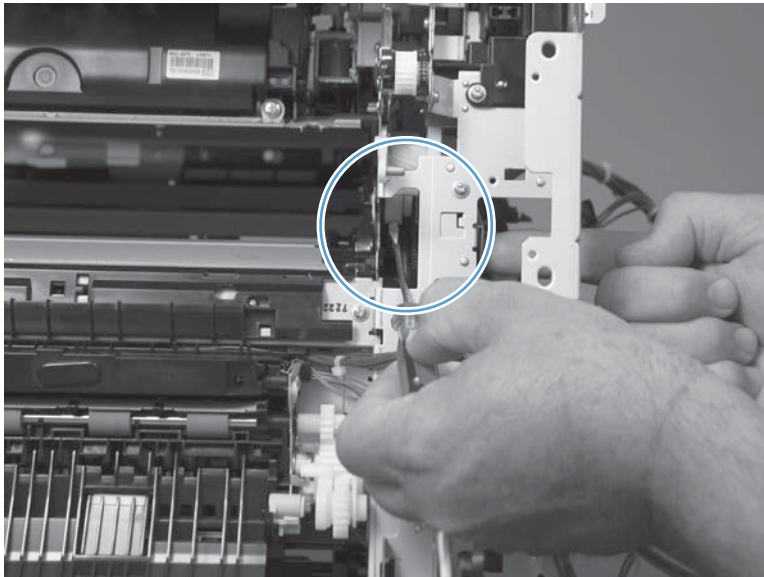
8. Position the assembly on the chassis.

Figure 1-284 Reinstall the main-drive assembly (8 of 11)



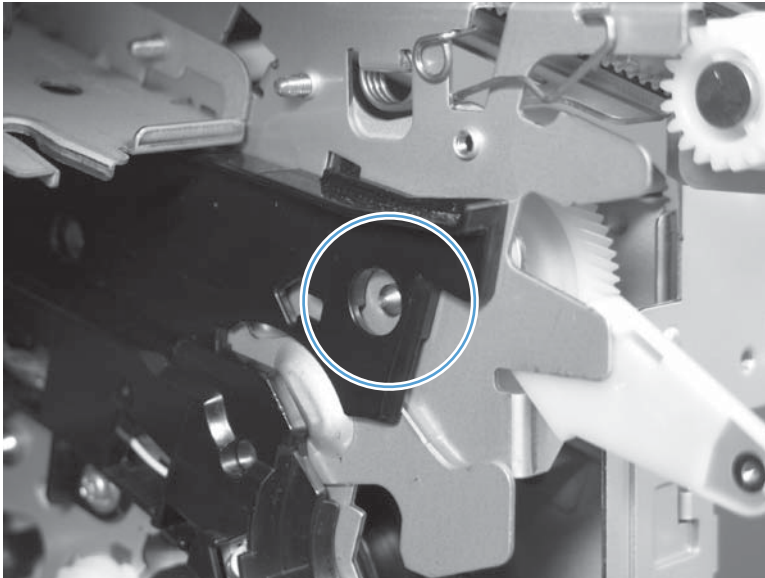
9. Use your finger to push in on the assembly, and use a small flat blade screwdriver to align the pin on the swing gear with the hole in the chassis.

Figure 1-285 Reinstall the main-drive assembly (9 of 11)



10. When the assembly is correctly installed against the chassis, the pin above the swing gear protrudes through the hole in the chassis.

Figure 1-286 Reinstall the main-drive assembly (10 of 11)

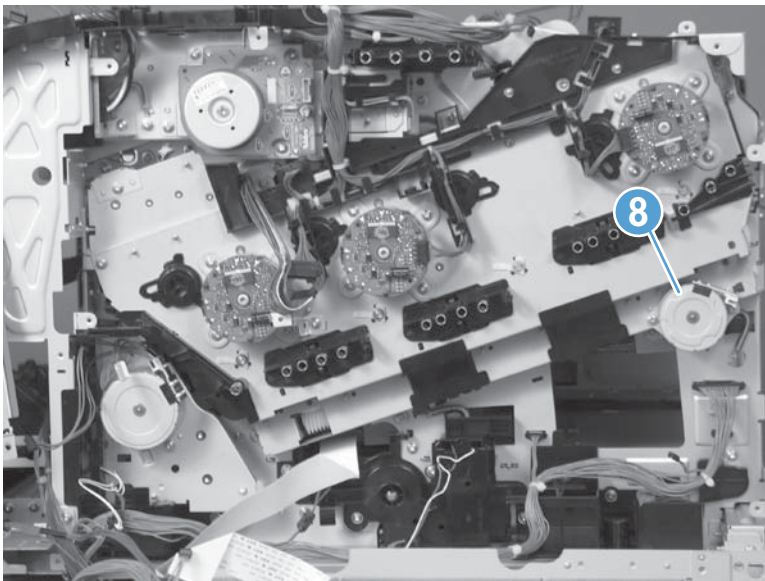


11. Install the main-drive assembly mounting screws, and then reinstall the developing-disengagement motor (callout 8).

 **TIP:** After reassembling the product, print a [Color Band Test](#) page.

If the test page shows one or more color planes are not printing (usually in the upper left corner of the page), the cam or cams for the missing color plane are not correctly aligned. Repeat the reinstall the main-drive assembly procedure.

Figure 1-287 Reinstall the main-drive assembly (11 of 11)



Fuser-drive assembly

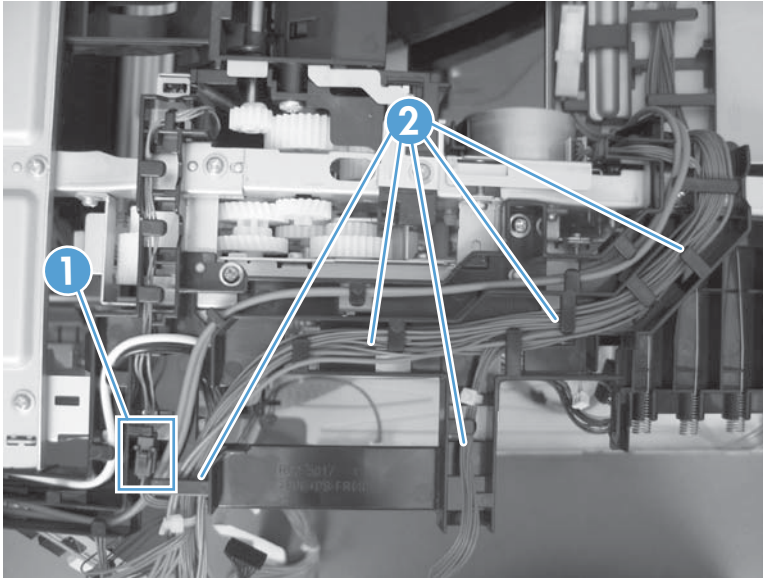
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Fuser. See [Fuser on page 24](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Front-upper cover. See [Front-upper cover on page 52](#).
- Stapler cover. See [Stapler cover on page 54](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Rear cover. See [Rear cover on page 67](#).
- Front-top cover. See [Front-top cover on page 79](#).
- Rear-top cover. See [Rear-top cover on page 81](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).
- Power-supply fan and fan duct. See [Power-supply fan and fan duct on page 141](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).
- Main-drive assembly. See [Main-drive assembly on page 188](#).

Remove the fuser-drive assembly

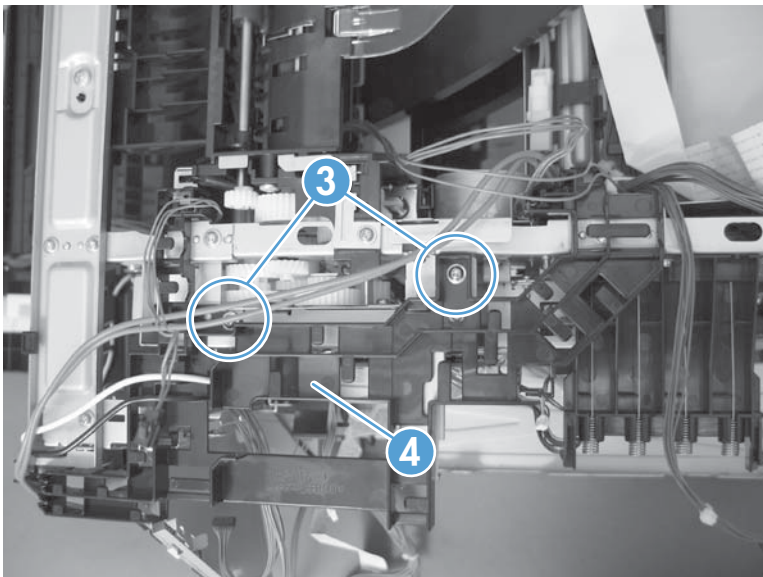
1. Disconnect one connector (callout 1), and then release the wire harnesses from the guide (callout 2).

Figure 1-288 Remove the fuser-drive assembly (1 of 6)



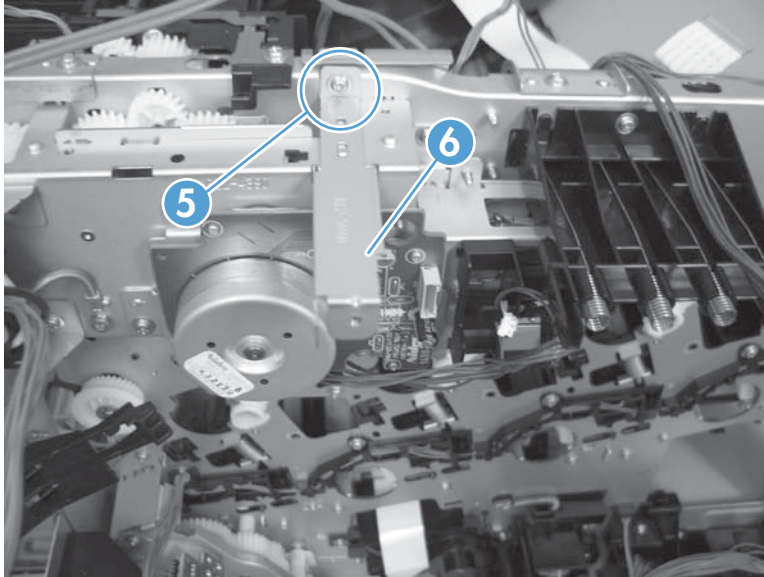
2. Remove two screws (callout 3), and then remove the guide (callout 4).

Figure 1-289 Remove the fuser-drive assembly (2 of 6)



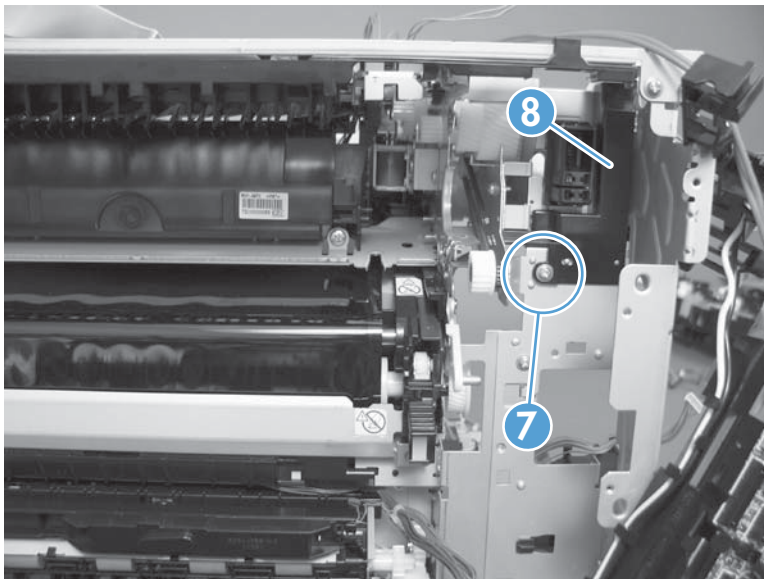
3. Remove one screw (callout 5), and then remove the sheet-metal plate (callout 6).

Figure 1-290 Remove the fuser-drive assembly (3 of 6)



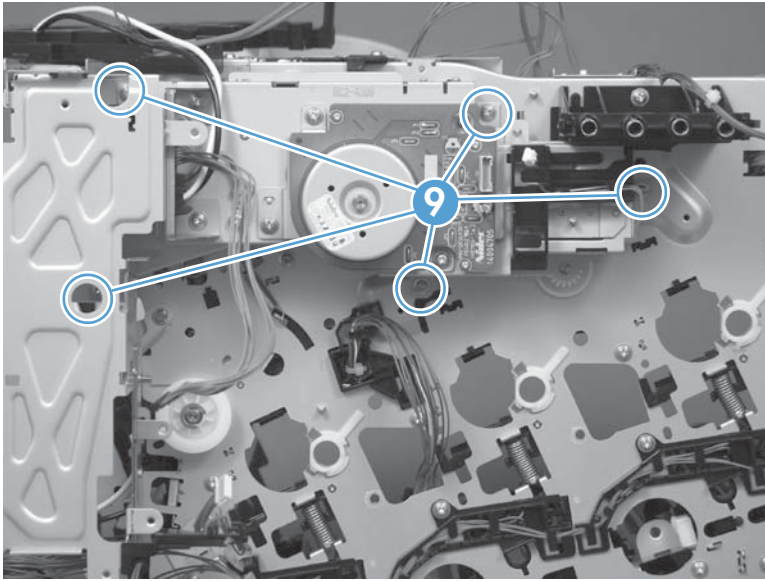
4. Remove one screw (callout 7), and then remove the cover (callout 8).

Figure 1-291 Remove the fuser-drive assembly (4 of 6)



5. Remove five screws (callout 9).

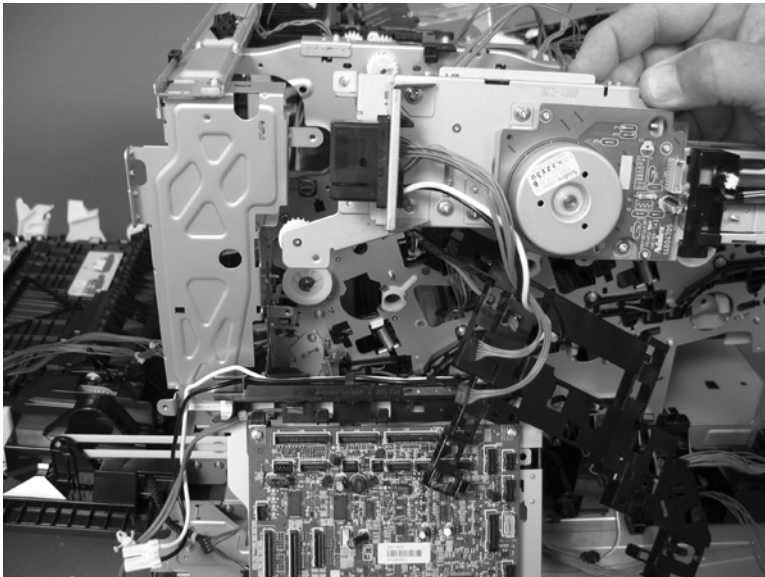
Figure 1-292 Remove the fuser-drive assembly (5 of 6)



6. Carefully remove the assembly.

⚠ CAUTION: A gear on the assembly is not captive. Do not lose the gear when you remove the assembly. If the gear becomes dislodged, see [Reinstall the fuser-drive assembly on page 203](#).

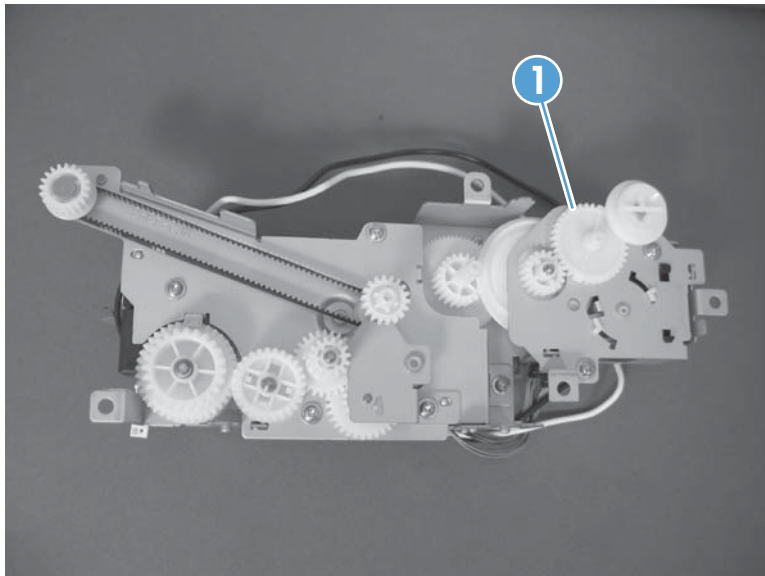
Figure 1-293 Remove the fuser-drive assembly (6 of 6)



Reinstall the fuser-drive assembly

If the gear (callout 1) is dislodged when the assembly is removed, use the figure below to correctly install it on the assembly.

Figure 1-294 Reinstall the fuser-drive assembly



Delivery assembly

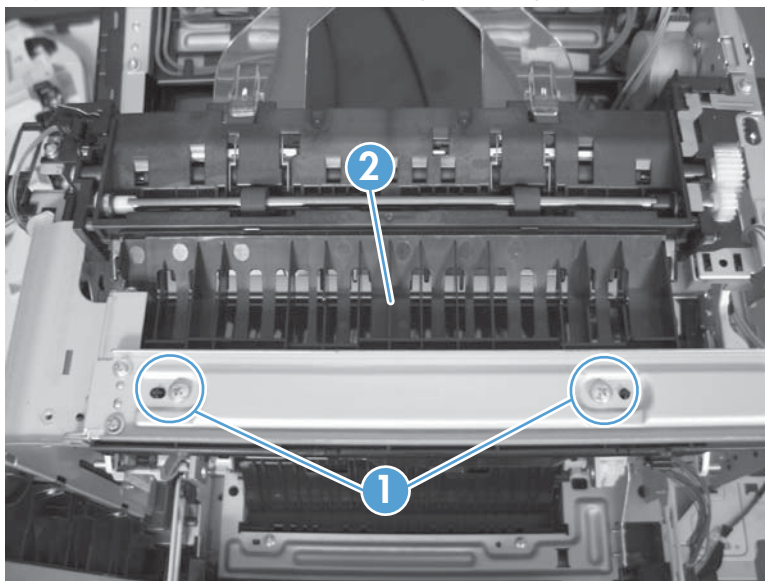
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Fuser. See [Fuser on page 24](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Front-upper cover. See [Front-upper cover on page 52](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Stapler cover. See [Stapler cover on page 54](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Rear cover. See [Rear cover on page 67](#).
- Front-top cover. See [Front-top cover on page 79](#).
- Rear-top cover. See [Rear-top cover on page 81](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Image scanner whole unit kit. See [Image scanner whole unit kit on page 103](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).
- Power-supply fan and fan duct. See [Power-supply fan and fan duct on page 141](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).
- Main-drive assembly. See [Main-drive assembly on page 188](#).
- Fuser-drive assembly. See [Fuser-drive assembly on page 199](#).

Remove the delivery assembly

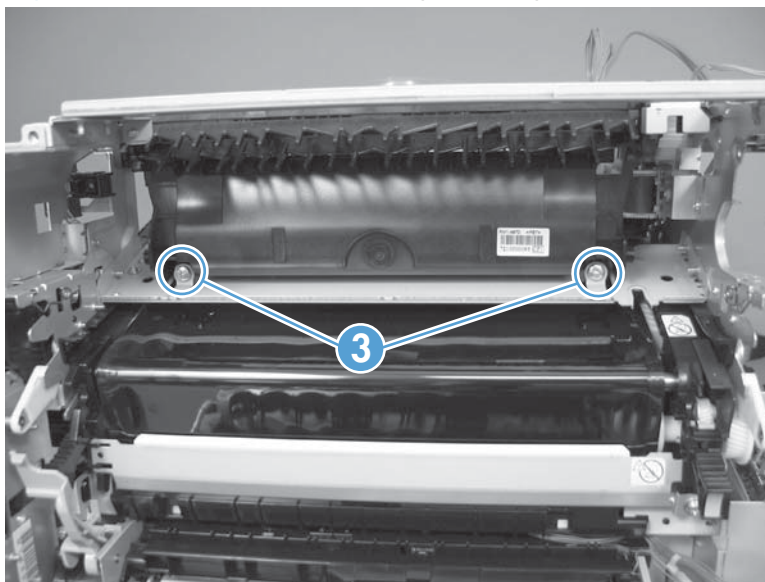
1. Remove two screws (callout 1), and then remove the guide (callout 2).

Figure 1-295 Remove the delivery assembly (1 of 5)



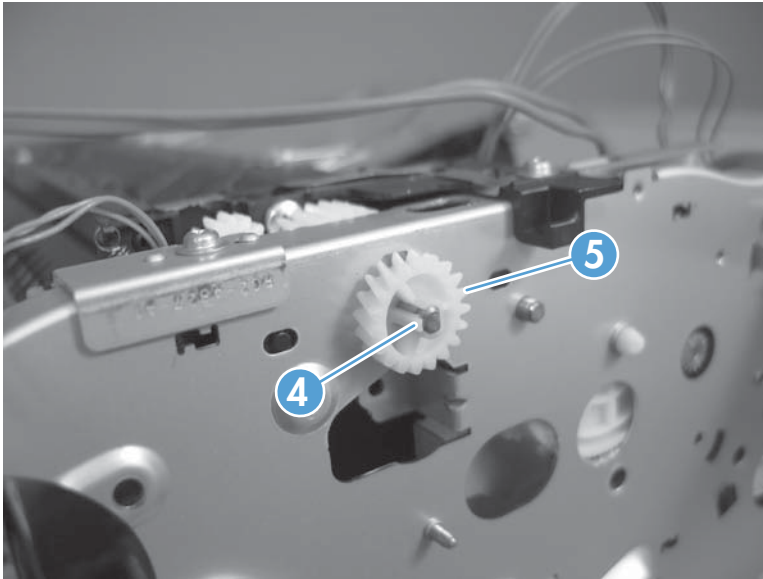
2. Remove two screws (callout 3).

Figure 1-296 Remove the delivery assembly (2 of 5)



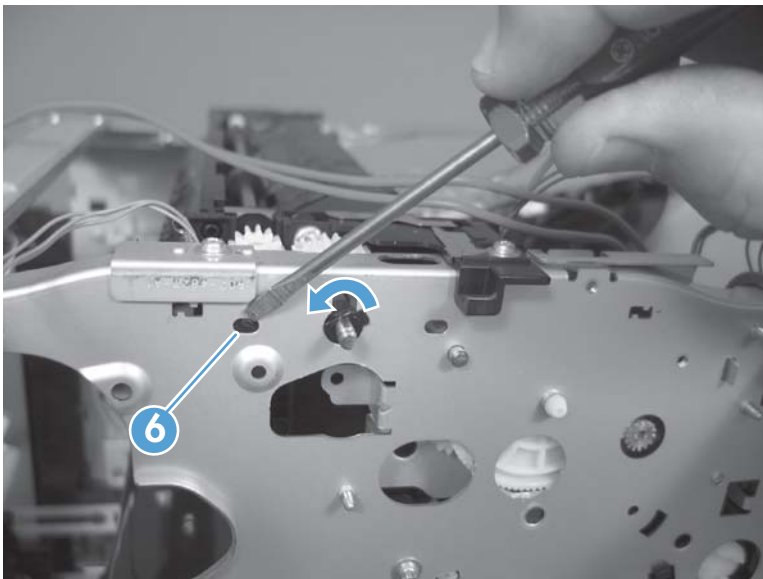
3. Release one tab (callout 4), and then remove the gear (callout 5).

Figure 1-297 Remove the delivery assembly (3 of 5)



4. Release one tab (callout 6), and then rotate the locking clip until the tab on the clip aligns with the slot in the chassis.

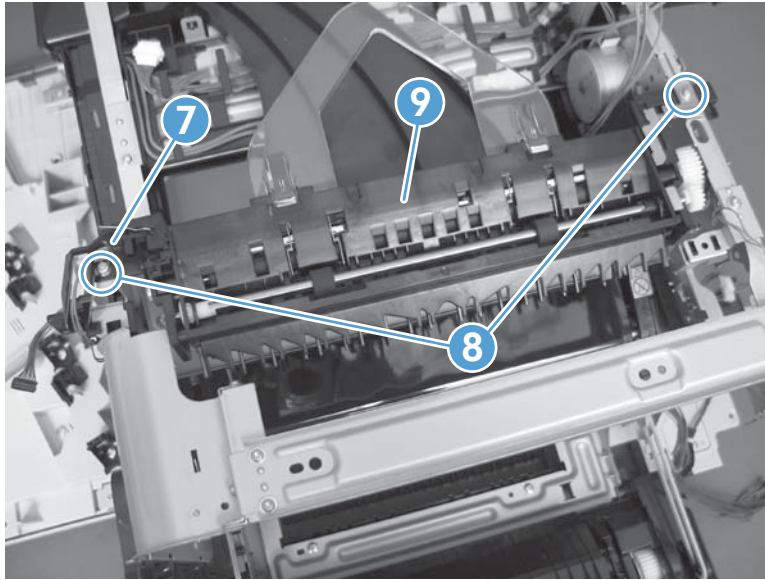
Figure 1-298 Remove the delivery assembly (4 of 5)



5. Disconnect one connector (callout 7), remove two screws (callout 8), and then carefully lift the assembly (callout 9) off of the product to remove it.

⚠ CAUTION: A solenoid arm (on the right side) and a spring (on the left side) on the assembly are not captive. Do not lose the solenoid arm or spring when you remove the assembly. If the solenoid arm or spring become dislodged, see [Reinstall the delivery assembly on page 208](#).

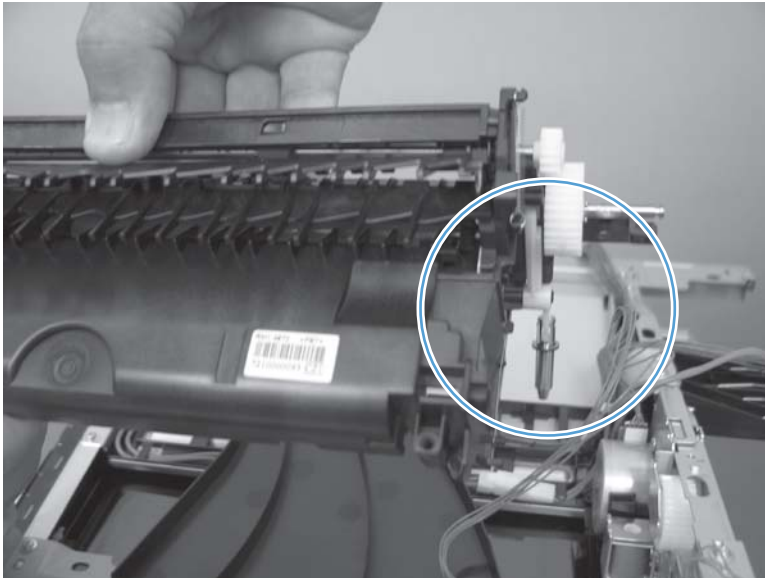
Figure 1-299 Remove the delivery assembly (5 of 5)



Reinstall the delivery assembly

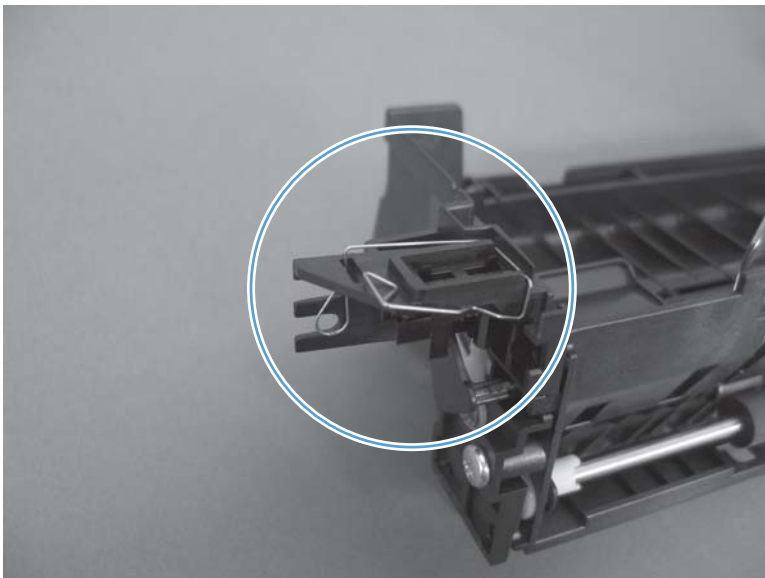
1. Make sure that the solenoid arm is correctly installed on the assembly.

Figure 1-300 Reinstall the delivery assembly (1 of 2)



2. Make sure that the spring is correctly installed on the assembly.

Figure 1-301 Reinstall the delivery assembly (2 of 2)



Duplex-drive assembly

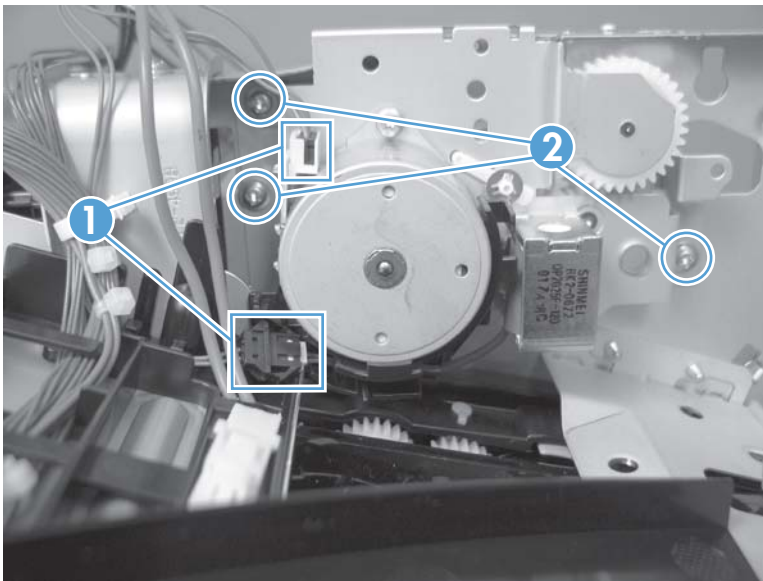
Before proceeding, remove the following components:

- Toner-collection unit. See [Toner-collection unit on page 15](#).
- Formatter PCA. See [Formatter PCA on page 17](#).
- Fuser. See [Fuser on page 24](#).
- Intermediate transfer belt (ITB). See [Intermediate transfer belt \(ITB\) on page 34](#).
- Front-upper cover. See [Front-upper cover on page 52](#).
- Stapler cover. See [Stapler cover on page 54](#).
- Right-rear cover. See [Right-rear cover on page 59](#).
- Left cover. See [Left cover on page 61](#).
- Rear-upper cover. See [Rear-upper cover on page 64](#).
- Left-upper cover. See [Left-upper cover on page 66](#).
- Rear cover. See [Rear cover on page 67](#).
- Front-top cover. See [Front-top cover on page 79](#).
- Rear-top cover. See [Rear-top cover on page 81](#).
- ADF whole unit kit. See [ADF whole unit kit on page 97](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Scanner-control board (SCB). See [Scanner-control board \(SCB\) on page 101](#).
- Interconnect board (ICB). See [Interconnect board \(ICB\) on page 108](#).
- DC controller. See [DC controller PCA and tray on page 110](#).
- Low-voltage power supply (LVPS). See [Low-voltage power supply \(LVPS\) on page 113](#).
- Secondary transfer assembly. See [Secondary transfer assembly on page 131](#).
- Power-supply fan and fan duct. See [Power-supply fan and fan duct on page 141](#).
- High-voltage power supply lower. See [High-voltage power supply lower on page 149](#).
- High-voltage power supply upper. See [High-voltage power supply upper on page 181](#).
- Main-drive assembly. See [Main-drive assembly on page 188](#).
- Fuser-drive assembly. See [Fuser-drive assembly on page 199](#).
- Delivery assembly. See [Delivery assembly on page 204](#).

Remove the duplex-drive assembly

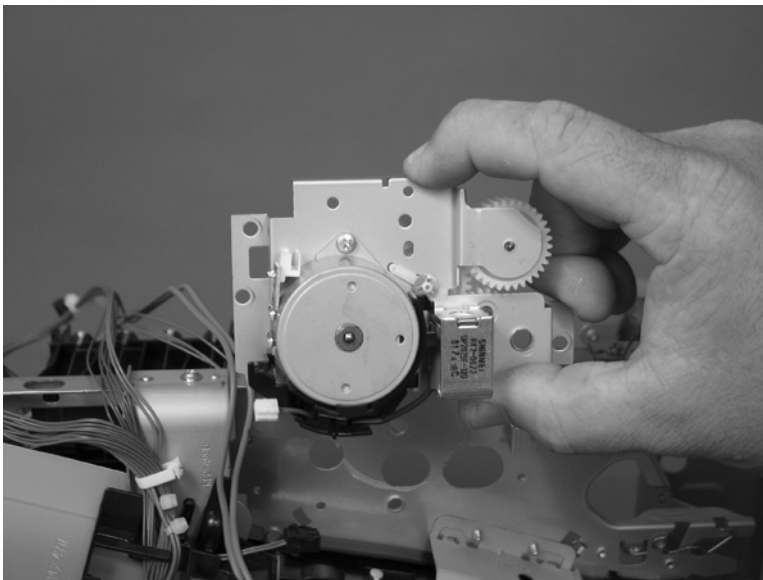
1. Disconnect two connectors (callout 1), and then remove three screws (callout 2).

Figure 1-302 Remove the duplex-drive assembly (1 of 2)




2. Remove the assembly.

Figure 1-303 Remove the duplex-drive assembly (2 of 2)



Optional paper feeder assembly (Tray 3)

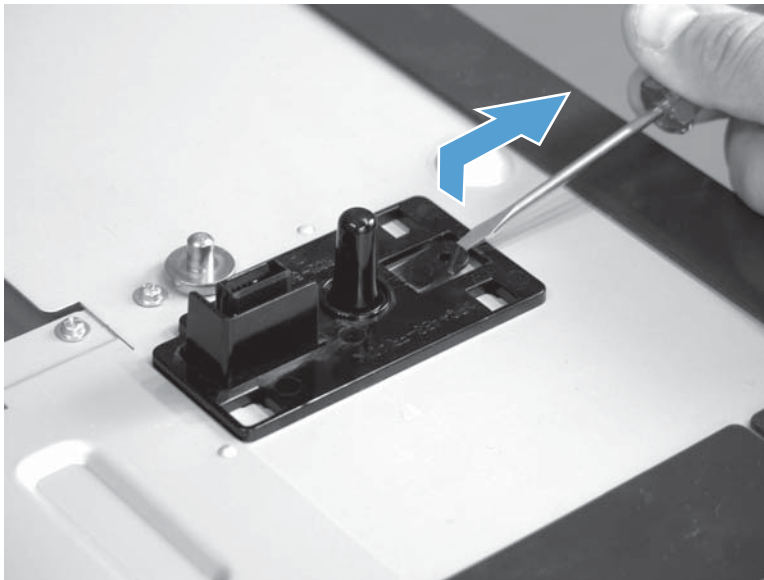
 **NOTE:** For information about removing the Tray 3 pickup roller, see [Pickup and feed rollers \(Tray 3\) on page 29](#).

For information about removing the Tray 3, see [Tray 2 and 3 on page 23](#).

For information about removing the right door (optional paper feeder), see [Right door \(optional paper feeder\) on page 47](#).

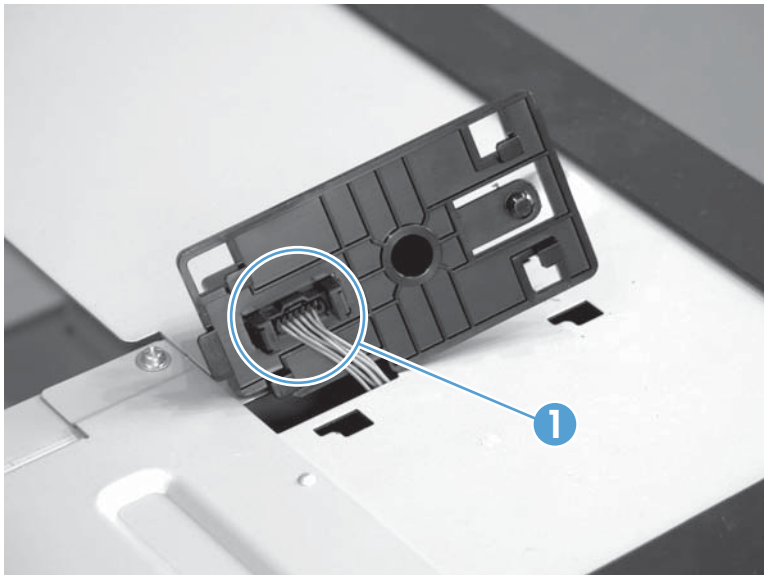
Drawer connector

1. With a small screwdriver, lift one tab and then slide the drawer connector to release.



2. Remove one connector (callout 1).

Figure 1-304 Remove the drawer connector; optional paper feeder



2 Parts and diagrams

- [Order parts, accessories, and supplies](#)
- [Orderable parts](#)
- [Related documentation and software](#)
- [Fasteners used in this product](#)
- [How to use the parts lists and diagrams](#)
- [Assembly locations](#)
- [Covers](#)
- [ADF and scanner assemblies](#)
- [Control panel assembly](#)
- [ADF assemblies](#)
- [Scanner assemblies](#)
- [Right-door assembly](#)
- [Internal assemblies](#)
- [Assessories](#)
- [Alphabetical parts list](#)
- [Numerical parts list](#)

Order parts, accessories, and supplies

You can obtain the following items directly from HP:

- **Replacement parts:** To order replacement parts in the U.S., go to www.hp.com/go/hpparts/. Outside the United States, order parts by contacting your local authorized HP service center.
- **Supplies and accessories:** To order supplies in the U.S., go to www.hp.com/go/ljsupplies. To order supplies worldwide, go to www.hp.com/ghp/buyonline.html. To order accessories, go to www.hp.com/support/lj500colorMFPM575.

Oderable parts

The following list of accessories was current at the time of printing. Ordering information and availability of the accessories might change during the life of the product.

Accessories

Table 2-1 Accessories

Item	Description	Product number	Part number
1 x 500-sheet paper feeder		CE084A	CF084-67901
LaserJet printer cabinet		CE085A	CD644-67917
Power cords	PWR-CORD OPT-934 3-COND 1.9-M-LG ROHS		8121-0971
	PWR-CORD OPT-902 3-COND 1.9-M-LG ROHS		8121-0950
	PWR-CORD OPT-922 3-COND 1.9-M-LG ROHS		8121-0945
	PWR-CORD OPT-901 3-COND 1.9-M-LG ROHS		8121-0872
	PWR-CORD OPT-918 3-COND 1.9-M-LG ROHS		8121-1144
	PWR-CORD OPT-919 3-COND 1.9-M-LG ROHS		8121-1005
	PWR-CORD OPT-912 3-COND 1.9-M-LG ROHS		8121-0949
	PWR-CORD OPT-923 3-COND 1.9-M-LG ROHS		8121-1083
	PWR-CORD OPT-917 3-COND 1.9-M-LG ROHS		8121-0954
	PWR-CORD OPT-900 3-COND 1.9-M-L 10A ROHS		8121-0946
	PWR-CORD OPT-906 3-COND 1.9-M-LG ROHS		8121-0947
	PWR-CORD OPT-903 3-COND 1.9-M-LG ROHS		8121-0921
	PWR-CORD OPT-921 3-COND 1.9-M-LG ROHS		8121-0951
	PWR-CORD OPT-940 3 COND 1.9-M-LG ROHS		8121-0952
	PWR-CORD OPT-940 3 COND 1.9-M-LG ROHS		8121-1070
	PWR-CORD OPT-920 3-COND 1.9-M-LG ROHS		8121-0953

Print cartridges and toner collection unit

Product name	Cartridge number	Part number (service)
HP Color LaserJet standard black print cartridge	CE400A	CE400-67901
HP Color LaserJet high capacity black print cartridge	CE400X	CE400-67902

Product name	Cartridge number	Part number (service)
HP Color LaserJet cyan print cartridge	CE401A	CE401-67901
HP Color LaserJet yellow print cartridge	CE402A	CE402-67901
HP Color LaserJet magenta print cartridge	CE403A	CE403-67901
Toner collection unit (TCU)	CE254A	CF081-67903
Fuser kit		CD644-67906 (110 V)
<ul style="list-style-type: none"> Fuser assembly (110 V or 220 V) Installation instructions Recycle guide 		CD644-67907 (220 V)

CAUTION: Make sure that you order the correct kit for the rated voltage of your product.

Memory

Product name	Part number
Hard drive replacement kit	CD644-67912
<ul style="list-style-type: none"> 250 GB HDD Bracket Installation instructions 	
HDD Replacement Kit (U.S. government only)	CD644-67913
<ul style="list-style-type: none"> 320 GB HDD Bracket Installation instructions 	

Customer self repair (CSR) and service kits

Product name	Part number
1 x 500-sheet paper feeder right door kit	CC468-67906
<ul style="list-style-type: none"> Right-door assembly Right-door stopper Right-door link Installation instructions 	

Product name	Part number
ADF open close sensor assembly kit <ul style="list-style-type: none"> • Plunger, ADF open • Spring, ADF open • ADF open sensor • Installation instructions 	5851-4846
ADF pick success sensor assembly kit <ul style="list-style-type: none"> • Flag pick success • Spring duplex • Installation instructions 	5851-4849
ADF roller maintenance kit <ul style="list-style-type: none"> • PM roller kit • Installation instructions 	L2725-60002
ADF whole unit kit <ul style="list-style-type: none"> • ADF assembly • Foam reflector • Installation instructions 	CD644-67918
ADF width adjustor kit <ul style="list-style-type: none"> • Width adjustor guide, rear • Width adjustor guide, front • Width adjustor slider guide • Installation instructions 	5851-4880
Duplex reverse guide kit <ul style="list-style-type: none"> • Duplex reverse guide • Installation instructions 	CC468-67913
Fax kit <ul style="list-style-type: none"> • Fax PCA • Fax cradle • Installation instructions 	CC478-67901
Foam reflector kit <ul style="list-style-type: none"> • Foam reflector • Installation instructions 	5851-4878

Product name	Part number
Formatter assembly kit (New) <ul style="list-style-type: none"> • Formatter PCA • Formatter tray • Screw (1) • Installation instructions 	CD644-67909
Formatter assembly kit (China only) <ul style="list-style-type: none"> • Formatter PCA • Formatter tray • Screw (2) • Installation instructions 	CD644-67910
Front-door assembly and name plate <ul style="list-style-type: none"> • Front-door assembly • HP Jewel • Name plate • Installation instructions 	CD644-67902
Image scanner whole unit kit <ul style="list-style-type: none"> • Image scanner assembly • Installation instructions 	CD644-67922
Service maintenance kit <ul style="list-style-type: none"> • Intermediate transfer belt (ITB) • Secondary transfer roller assembly • Installation instructions 	CD644-67908
Laser scanner assembly kit <ul style="list-style-type: none"> • Laser/scanner assembly • Installation instructions 	CD644-67905
Main drive assembly kit <ul style="list-style-type: none"> • Main drive assembly • Installation instructions 	CD644-67911
Memory board kit <ul style="list-style-type: none"> • AY memory board • Installation instructions 	CD644-67924

Product name	Part number
Photon control panel	CD644-67916
<ul style="list-style-type: none"> • Photon-R control panel • Installation instructions 	
Pick/feed and separation roller kit (Tray 1)	CD644-67903
<ul style="list-style-type: none"> • Separation pad • Pickup roller • Installation instructions 	
Pick/feed and separation roller kit (Tray 2/3)	CD644-67904
<ul style="list-style-type: none"> • Separation roller assembly • Pickup roller assembly • Pickup roller • Feed roller • Installation instructions 	
Secondary transfer (T2) roller kit	CD644-67914
<ul style="list-style-type: none"> • Secondary transfer roller • Installation instructions 	
Spring separation pad kit	5851-4879
<ul style="list-style-type: none"> • Spring separation pad • Installation instructions 	
Staple cartridge kit	Q7432-67901/Q7432A
Toner collection unit (TCU) kit	CF081-67903/CE254A
<ul style="list-style-type: none"> • Toner collection unit • Installation instructions 	

Related documentation and software

Table 2-2 Related documentation and software

Item	Description	Part number
<i>HP LaserJet Enterprise 500 color MFP M575 Printer User Guide</i>	Product user guide	CD644-90907
<i>HP LaserJet Enterprise 500 color MFP M575 Printer Service Repair Manual</i>	English service repair manual	CD644-90966
<i>HP LaserJet Enterprise 500 color MFP M575 Printer Service Troubleshooting Manual</i>	English service troubleshooting manual	CD644-90967

Fasteners used in this product


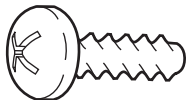
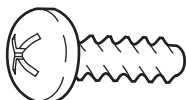
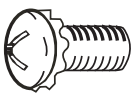


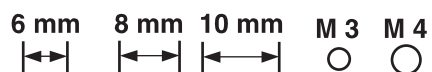
 **NOTE:** The screw illustrations in the following table are for reference only. Screws might vary in size and appearance from those shown in this table.


Table 2-3 Common fasteners


Example	Description	Size	Part Number
	Screw, tapping, truss head	M4X10	XB4-7401-005CN
	Screw, tapping, pan head	M4X10	XB4-7401-007CN
	Screw, D	M3X8	XA9-1671-000CN
	Screw, D	M3X8	XA9-1834-000CN
	Screw (formatter assembly)	M3X0.5	0515-4679



How to use the parts lists and diagrams

The figures in this chapter show the major subassemblies in the product and their component parts. A parts list table follows each exploded view assembly diagram. Each table lists the item number, the associated part number, and the description of each part. If a part is not listed in the table, then it is not a field replacement unit (FRU).

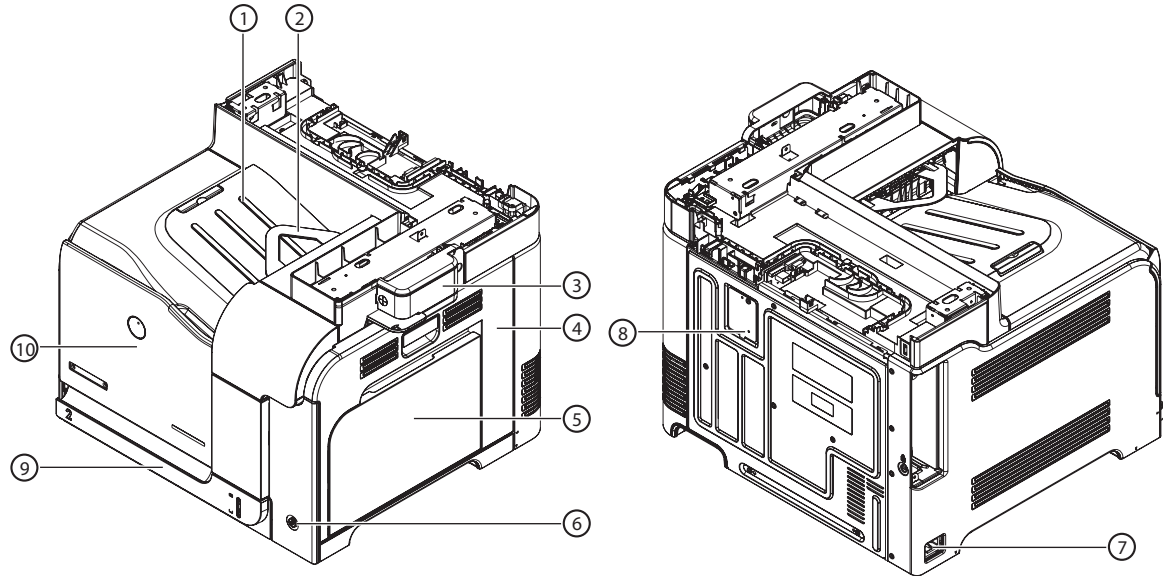
 **CAUTION:** Be sure to order the correct part. When looking for part numbers for electrical components, pay careful attention to the voltage that is listed in the description column. Doing so will ensure that the part number selected is for the correct all-in-one model.

 **NOTE:** In this manual, the abbreviation “PCA” stands for “printed circuit-board assembly.” Components described as a PCA might consist of a single circuit board or a circuit board plus other parts, such as cables and sensors.

Assembly locations

Base product (no optional trays or accessories)

Figure 2-1 Base product (no optional trays or accessories)



Item	Description	Item	Description
1	Face-down output bin	6	Power switch
2	Reverse tray	7	Power receptacle
3	Stapler cover	8	Test print switch
4	Right door	9	Tray 2
5	Tray 1	10	Front door

Base product (optional trays or accessories)

Figure 2-2 Base product (optional trays or accessories)

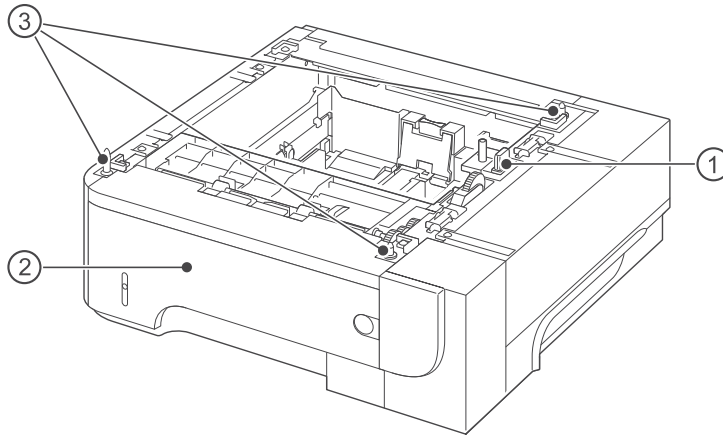


Table 2-4 Optional 500-sheet input tray

Item	Description
1	Connector
2	Tray 3
3	Positioning pins

Covers

Figure 2-3 External covers, panels, and doors

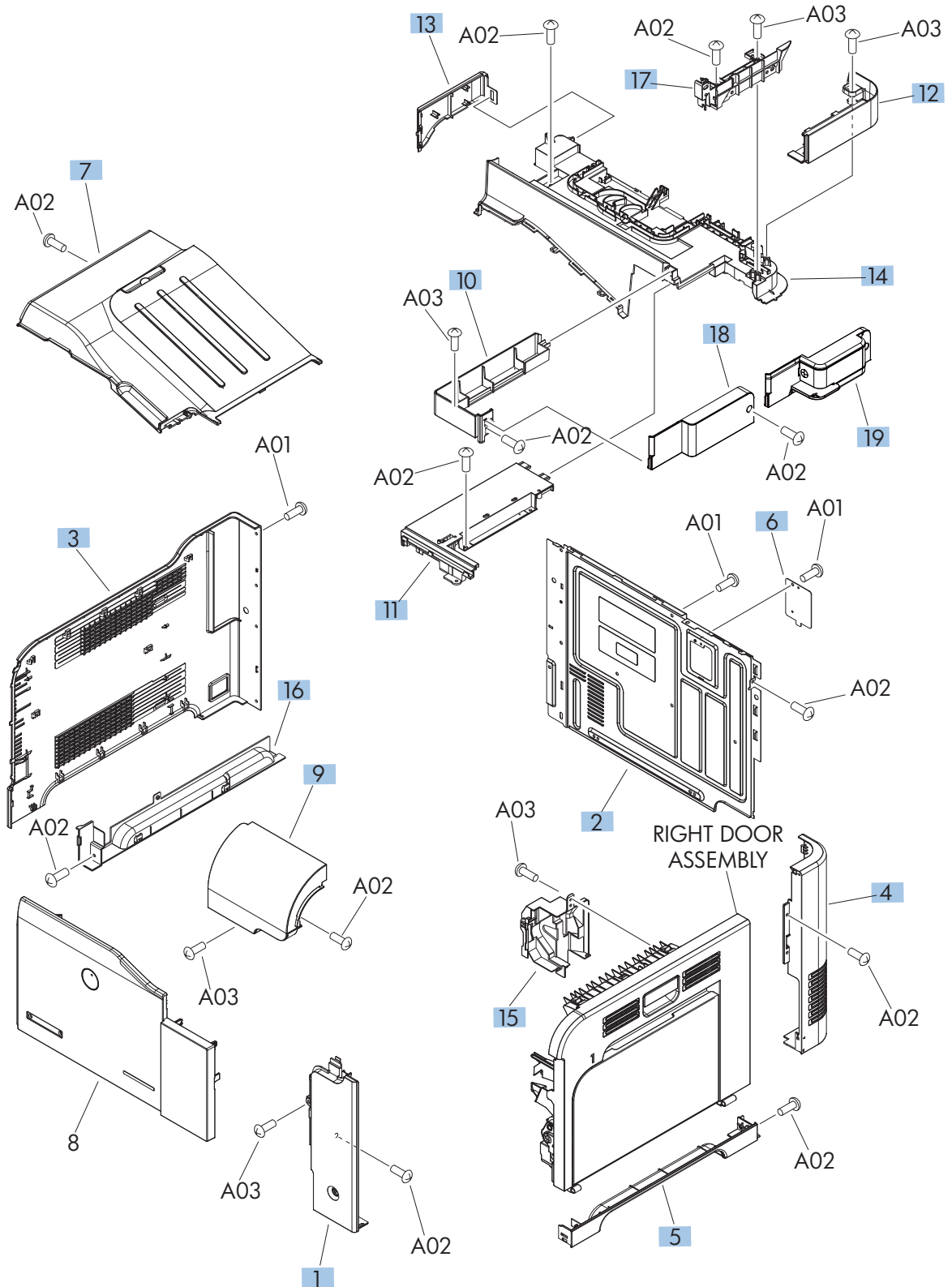


Table 2-5 External covers, panels, and doors

Ref	Description	Part number	Qty
1	Cover, right front	RC2-5056-000CN	1
2	Cover, rear	RC2-5048-000CN	1
3	Cover, left	RC2-5052-000CN	1
4	Cover, rear right	RC2-5057-000CN	1
5	Cover, right lower	RC2-5059-000CN	1
6	Plate, blanking	RC2-5938-000CN	1
7	Tray, paper delivery	RL1-1941-030CN	1
9	Control panel cover assembly	RM1-9198-000CN	1
10	Cover, right	RC3-2095-000CN	1
11	Cover, upper right	RC3-2093-000CN	1
12	Cover, right rear	RC3-2096-000CN	1
13	Cover, left rear	RC3-2094-000CN	1
14	Cover, upper rear	RC3-2092-000CN	1
15	Cover, right door gear rear	RC2-4924-000CN	1
16	Cover, left lower	RC2-5069-000CN	1
17	Guide, cable	RC3-2103-000CN	1
18	Cover, image scanner unit	RRC3-2097-000CN	1
19	Cover, stapler unit	RM1-9199-000CN	1

ADF and scanner assemblies

Figure 2-4 ADF and scanner assemblies

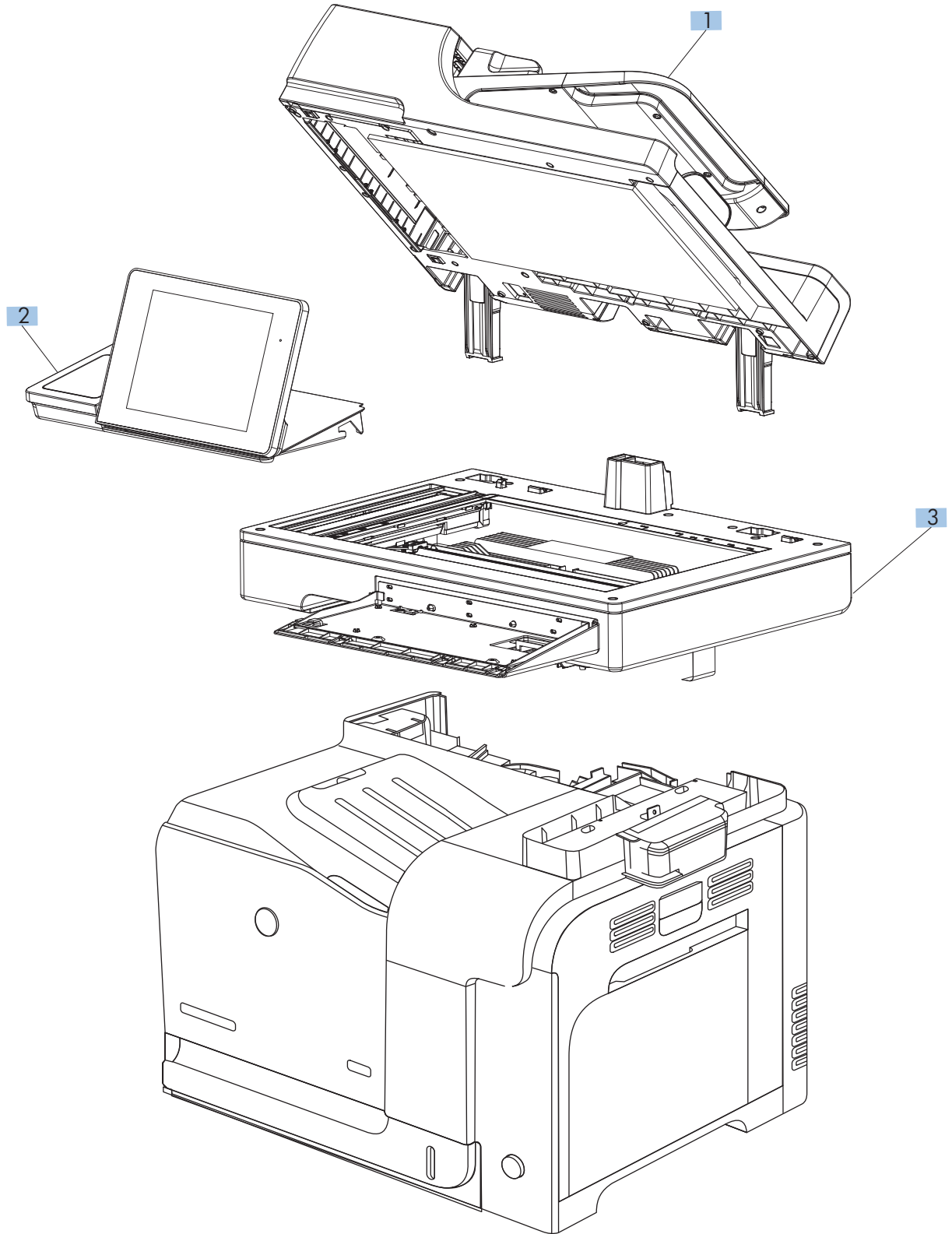


Table 2-6 ADF and scanner assemblies

Ref	Description	Part number	Qty
1	ADF whole unit	CD644-67918	1
2	Control panel	CD644-67916	1
3	Scanner whole unit	CD644-67922	1

Control panel assembly

Figure 2-5 Control panel assembly

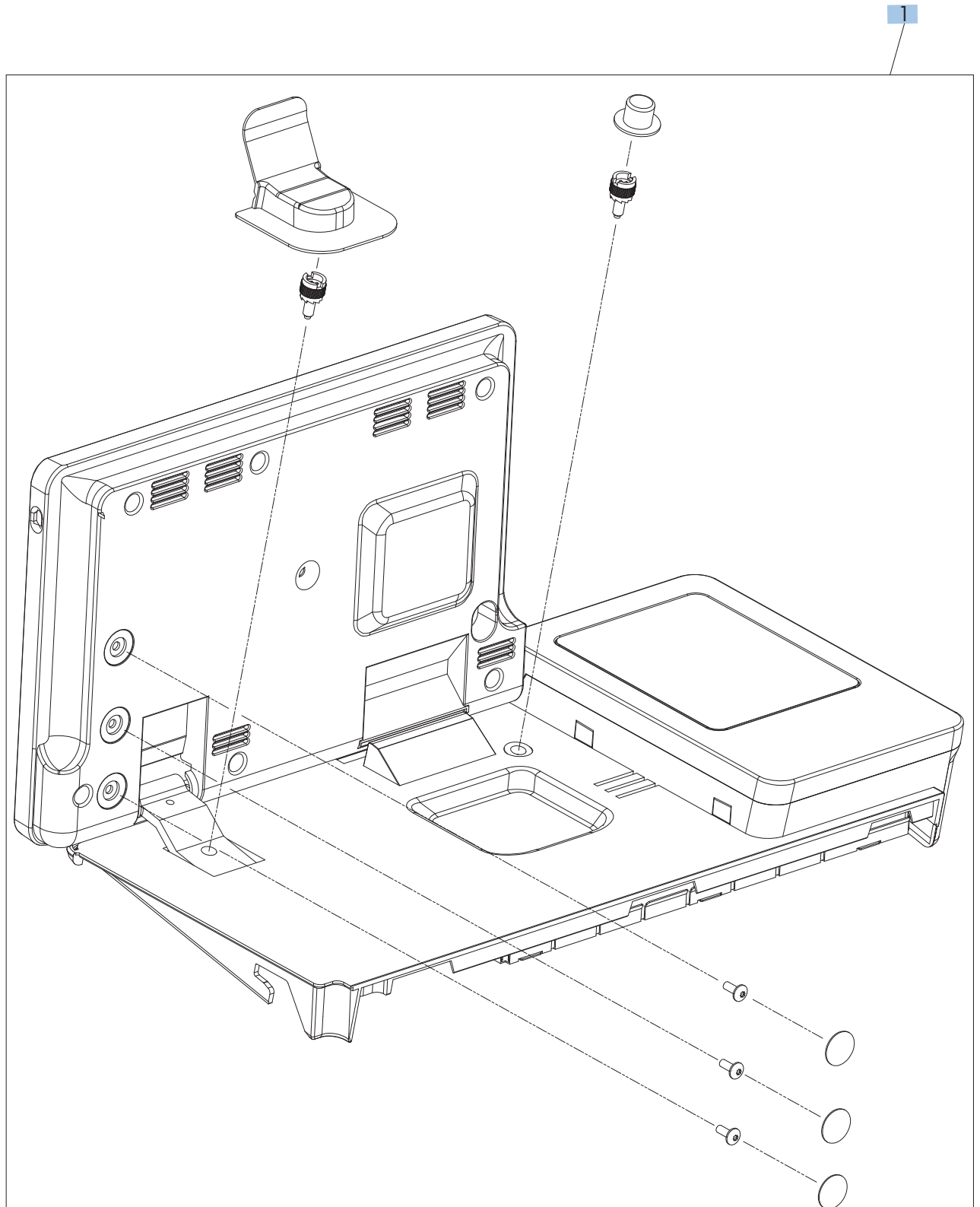


Table 2-7 Control panel assembly

Ref	Description	Part number	Qty
1	Control panel assembly kit	CD644-67916	1
Not shown	Control-panel cable	CF116-60105	1

ADF assemblies

Figure 2-6 ADF assemblies

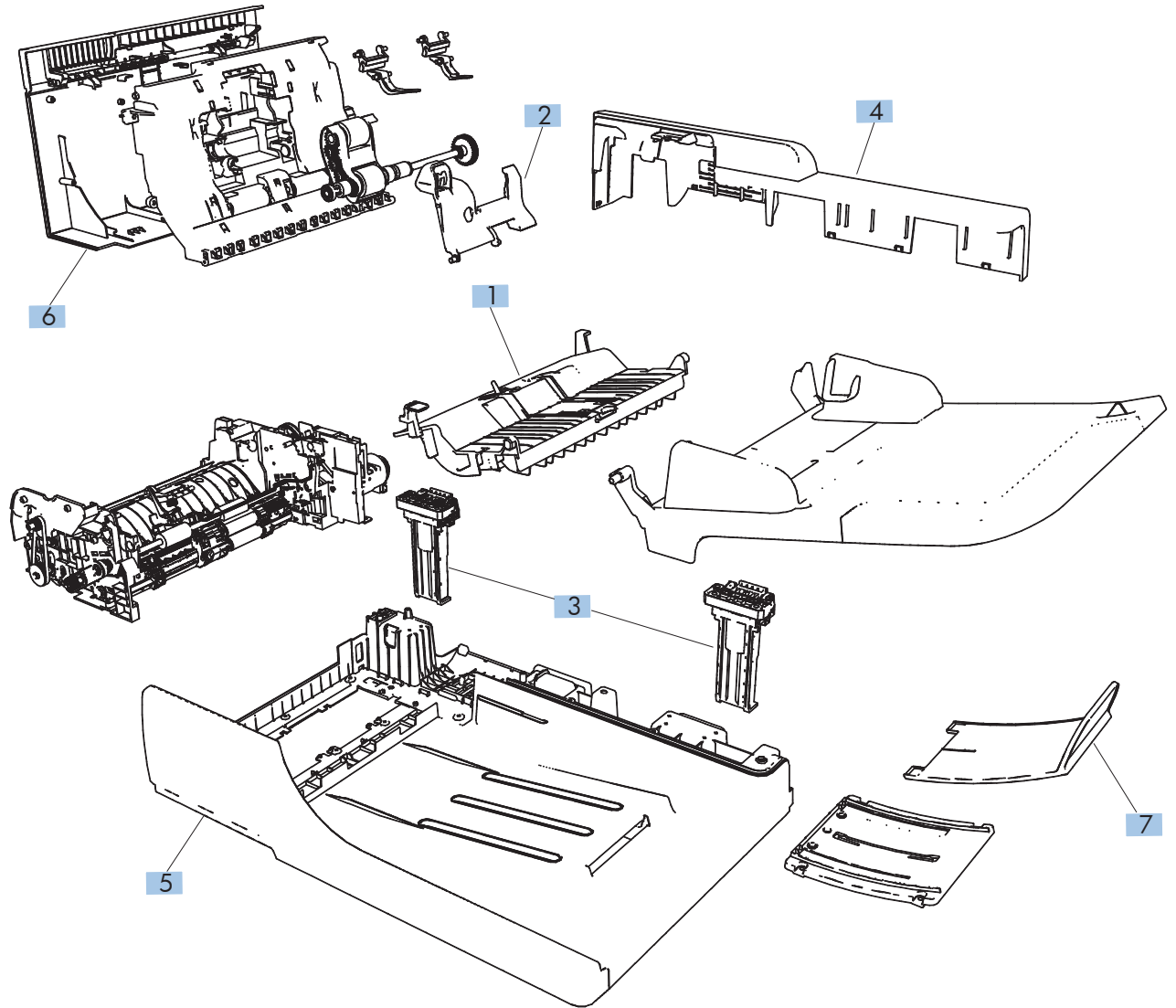


Table 2-8 ADF assemblies

Ref	Description	Part number	Qty
1	ADF separation pad spring	5851-4879	1
2	ADF roller cover	CC355-40013	1
3	ADF hinge assembly	Q7404-60024	2
4	Cover, ADF rear	Q7404-40007	1
5	Cover, ADF front	Q7404-40030	1
6	Cover, hatch	Q7404-40006	1
7	ADF tray extender	Q7404-40020	1

Scanner assemblies

Figure 2-7 Scanner assemblies

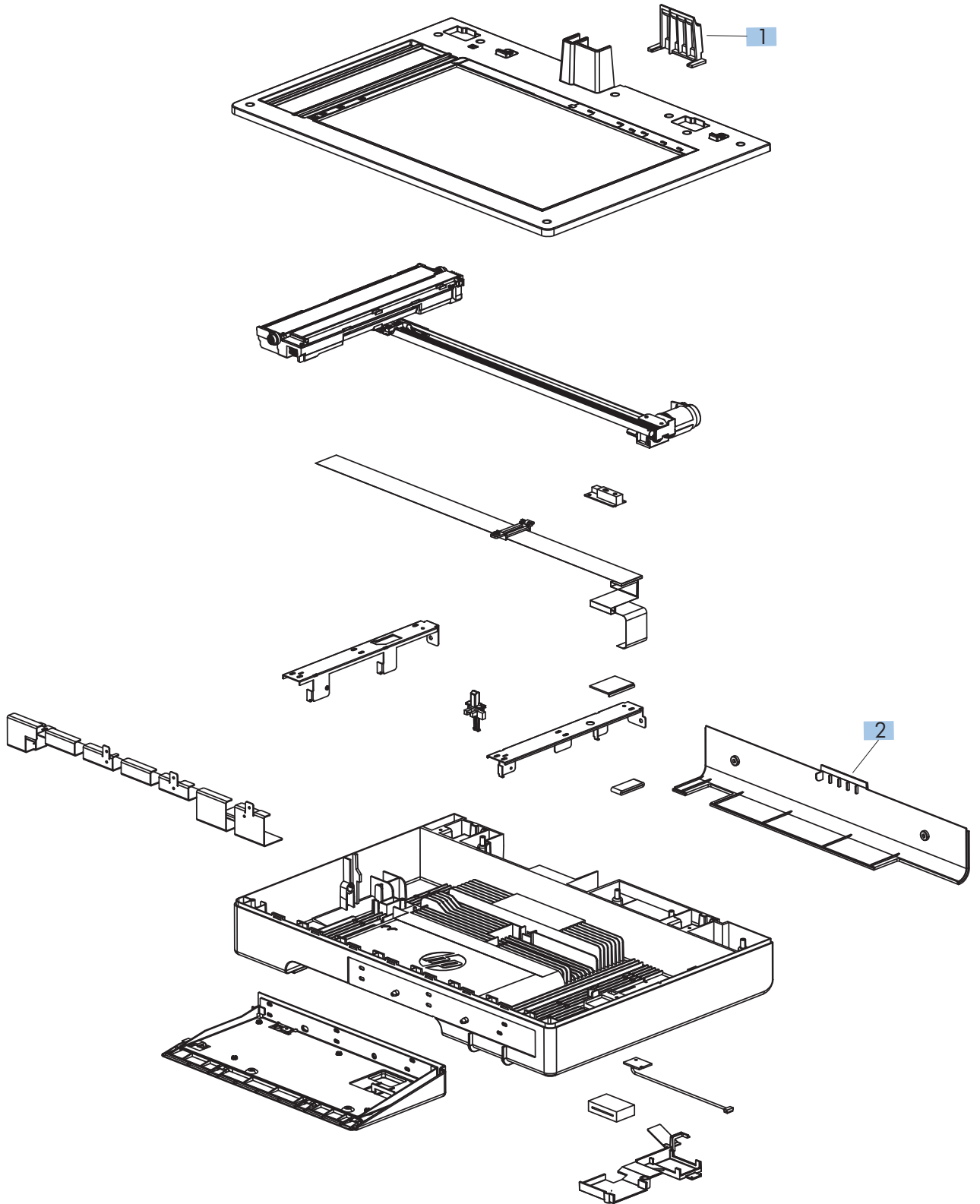


Table 2-9 Scanner assemblies

Ref	Description	Part number	Qty
1	Cover, ADF cable	5851-0630	1
2	Cover, rear scanner	CF116-40002	1
Not shown	PCA, scanner memory	CF116-67923	1
Not shown	Cave light	CF116-60104	1
Not shown	Cable harness merge assy	Q7404-50005	1

Right-door assembly

Figure 2-8 Right-door assembly

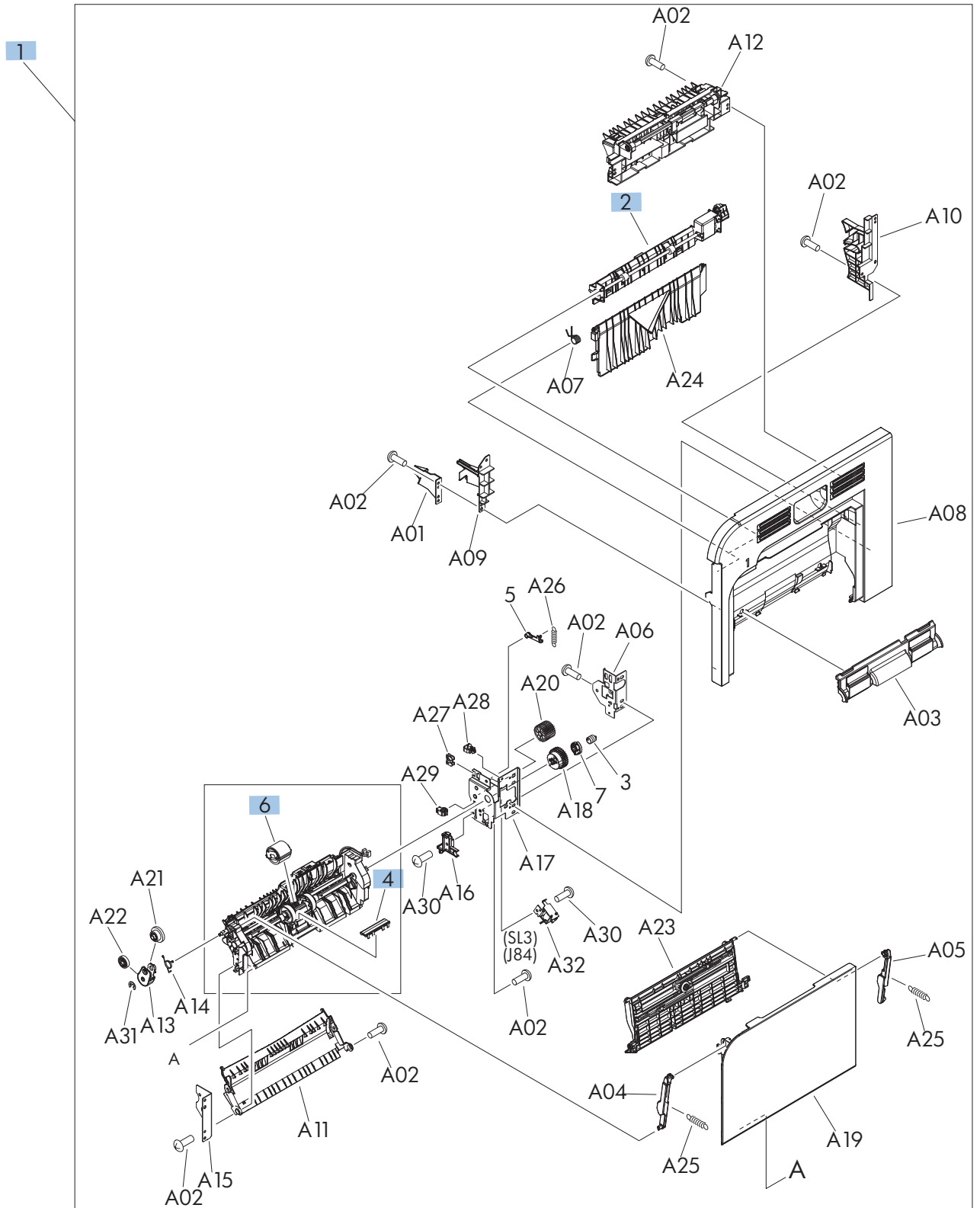


Table 2-10 Right-door assembly

Ref	Description	Part number	Qty
1	Right door assembly	RM1-8123-000CN	1
2	Duplexing paper feed assembly	RM1-4959-000CN	1
4, 6	Kit, Tray 1 roller (pickup roller and separation pad)	CD644-67903	1

Table 2-11 Internal assemblies (1 of 6)

Ref	Description	Part number	Qty
1	Left cable assembly	RM1-5742-000CN	1
3	Cover, front inner lower unit	RL1-1914-020CN	1
5	Cover, front inner upper	RC3-1070-000CN	1
6	Cover, front inner lower	RL1-1915-000CN	1
11	Spring, compression	RU6-2567-000CN	1
12	Waste toner detect assembly	RM1-5696-000CN	1
13	Waste toner duct assembly	RM1-8138-000CN	1
14	Toner collection unit (TCU)	RM1-4989-000CN	1
17	Spring, tension	RU7-2192-000CN	4
18	Spring, ground	RU6-2237-000CN	4
19	Lever, cartridge pressure front	RC2-3983-030CN	4
20	Guide, light	RC2-4426-000CN	4
21	Waste toner box seal	RC2-4780-000CN	4
23	Cover, stapler switch	RC3-2116-000CN	4
24	Lock, door	RC2-5937-000CN	2
26	Lever, box presence detect	RC2-5951-000CN	1
27	Spring, compression	RU6-2568-000CN	1
32	Guide, door latch right	RC2-4914-000CN	1

Internal assemblies (2 of 6)

Figure 2-10 Internal assemblies (2 of 6)

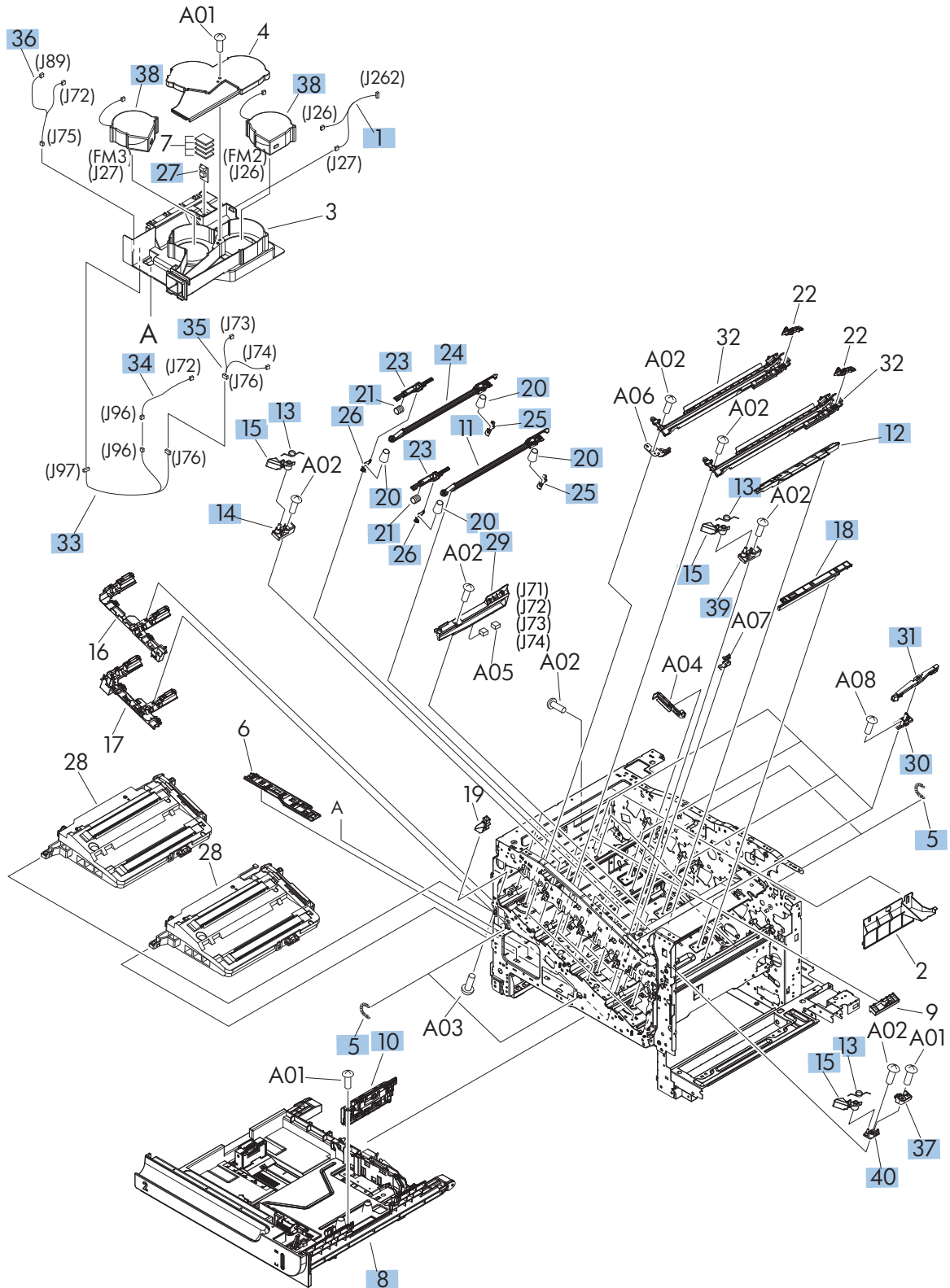


Table 2-12 Internal assemblies (2 of 6)

Ref	Description	Part number	Qty
1	Fan cable assembly	RM1-5746-000CN	1
5	Spring, tension	RU6-2436-000CN	4
8	Tray 2	RM1-4962-060CN	1
10	Separation roller assy (part of roller kit)	RM1-4966-020CN	1
11	Shutter assembly	RM1-4999-000CN	2
12	Cover	RC2-5912-000CN	1
13	Spring, torsion	RC2-5958-000CN	4
14	Holder, cartridge lock lever	RC2-5955-000CN	1
15	Lever, cartridge lock lever	RC2-5954-000CN	4
18	Cover	RC2-5962-000CN	1
20	Spring, compression	RU6-2318-000CN	8
21	Spring, compression	RU6-2316-000CN	4
23	Lever, shutter	RC2-4415-000CN	4
24	Shutter assembly	RM1-5488-000CN	2
25	Arm, shutter rear	RC2-4407-030CN	4
26	Arm, shutter front	RC2-4406-000CN	4
27	Temperature sensor unit	RK2-3267-000CN	1
29	Toner sensor holder assembly	RM1-5700-000CN	4
30	Stand assembly	RM1-5588-000CN	4
31	Base assembly	RM1-8149-000CN	4
33	Connecting cable assembly	RM1-5749-000CN	1
34	Sensor cable assembly	RM1-5740-000CN	1
35	Sensor cable assembly	RM1-5741-000CN	1
36	Motor/sensor cable assembly	RM1-5752-000CN	1
37	Cartridge lock lever holder	RC2-5957-000CN	1
38	Fan (FM2, FM3)	RK2-2418-000CN	2
39	Cartridge lock lever holder	RC3-1075-000CN	2
40	Cartridge lock lever holder	RC2-5956-000CN	2

Internal assemblies (3 of 6)

Figure 2-11 Internal assemblies (3 of 6)

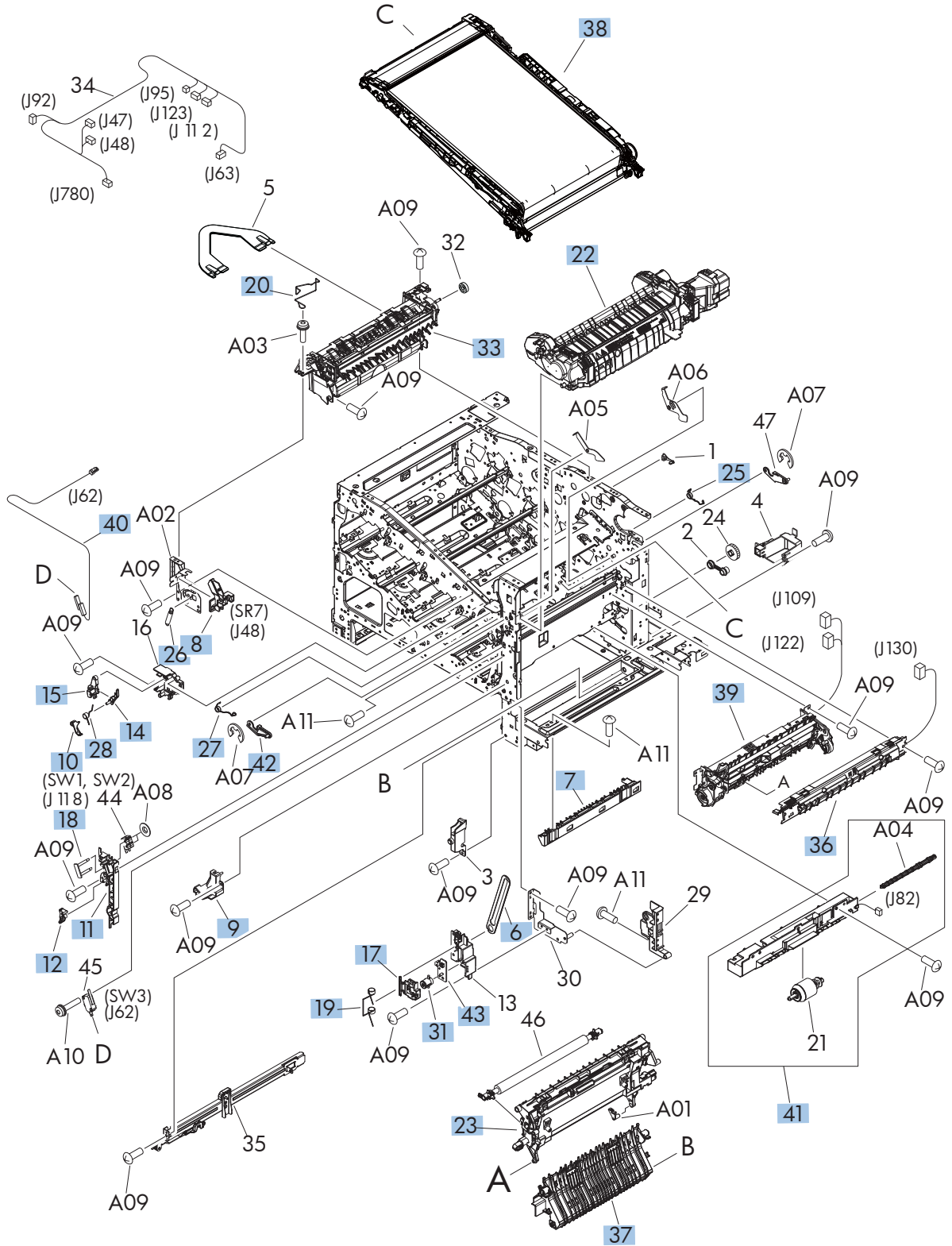


Table 2-13 Internal assemblies (3 of 6)

Ref	Description	Part number	Qty
6	Link, door stopper	RC2-4916-000CN	1
7	Guide, option entrance	RC2-4915-000CN	1
8	Sensor cable guide assembly (SR7)	RM1-8178-000CN	1
9	Cover, inner right lower	RC2-5019-000CN	1
10	Link, interlock (SW1)	RC2-5120-000CN	1
11	Mount, interlock switch	RC2-5123-000CN	1
12	Arm, interlock link switch	RC2-5121-000CN	1
14	Link, interlock	RC2-5119-000CN	1
15	Link, interlock	RC2-5118-000CN	1
17	Lever, switch	RC3-1208-000CN	1
18	Shaft	RC2-5913-000CN	1
19	Spring	RC3-1212-000CN	1
20	Wire (mech) sensor project	RC2-4828-000CN	1
22	Fuser 110v	CD644-67906	1
22	Fuser 220v	CD644-67907	1
23	Secondary transfer assembly	RM1-4952-030CN	1
25	Spring, torsion	RC2-4378-000CN	1
26	Spring, torsion	RU6-2268-000CN	1
27	Spring, torsion	RC2-4377-000CN	1
28	Spring, torsion	RC2-5122-000CN	1
31	Button, power supply	RL1-1947-000CN	1
33	Paper delivery assembly	RM1-4970-060CN	1
36	Density detect assembly	RM1-8163-000CN	1
37	Pick up lower guide assembly	RM1-9192-000CN	1
38	ITB kit	CD644-67908	1
39	Registration assembly	RM1-4969-000CN	1
40	Switch cable assembly	RM1-8065-000CN	1
41	Paper pick up assembly	RM1-4967-000CN	1
42	Front lock arm assembly	RM1-5532-000CN	1
43	Switch PCA assembly	RM1-8097-000CN	1

Internal assemblies (4 of 6)

Figure 2-12 Internal assemblies (4 of 6)

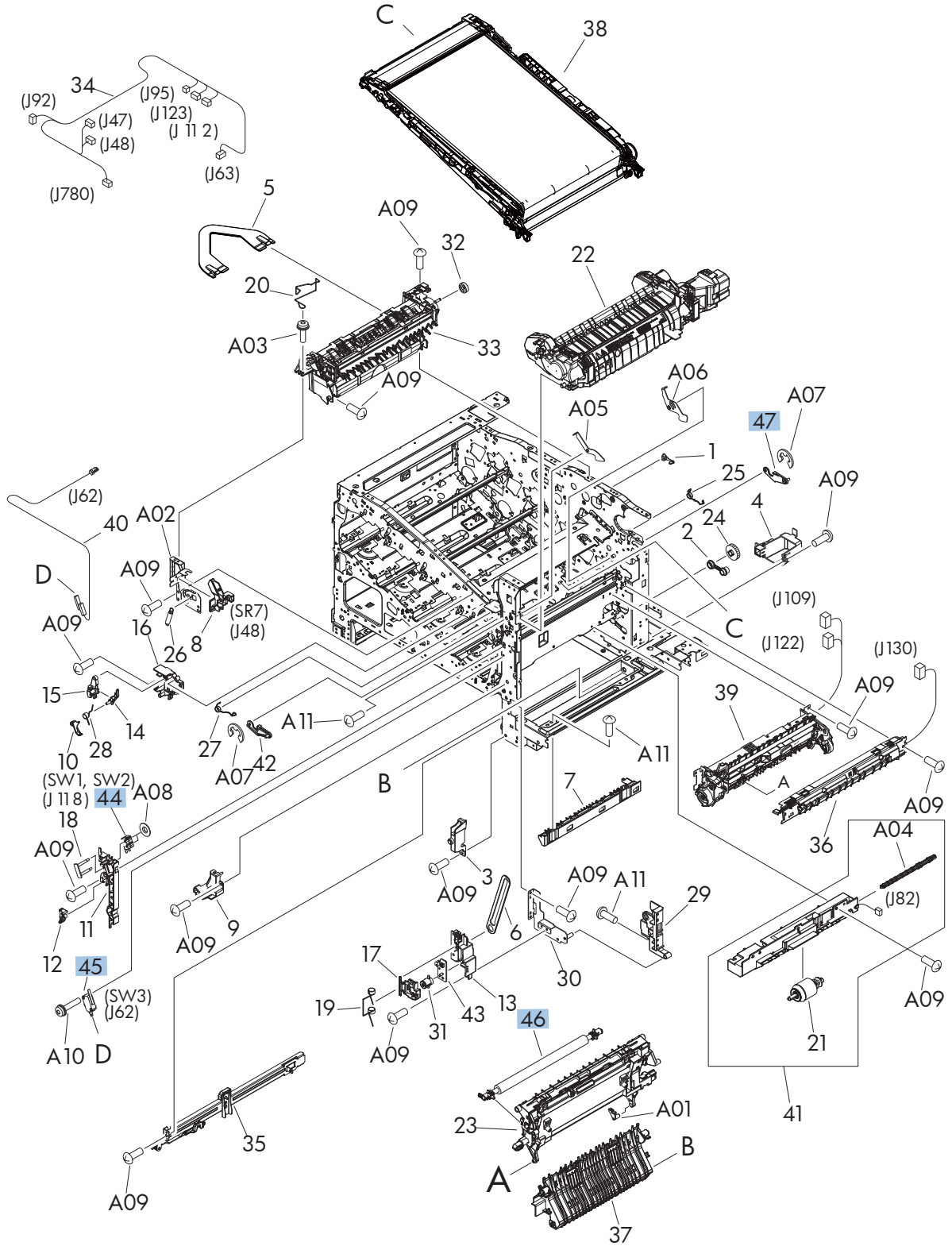


Table 2-14 Internal assemblies (4 of 6)

Ref	Description	Part number	Qty
44	Door switch assembly (SW2)	RM1-5732-000CN	1
45	Microswitch (SW3)	WC4-5171-000CN	1
46	Secondary transfer roller	CD644-67914	1
47	Rear lock arm assembly	RM1-5533-000CN	1

Table 2-15 Internal assemblies (5 of 6)

Ref	Description	Part number	Qty
1	Fusing connecting cable assembly	RM1-5714-000CN	1
2	Link, door stopper	RC2-4916-000CN	1
4	Spring, compression	RC2-5021-000CN	1
6	Fan (FM1)	RK2-2416-000CN	1
7	Rear handle	RC2-5042-000CN	1
9	Spring, grounding	RC2-5148-000CN	1
11	Switch arm	RC2-5943-000CN	1
15	Lower HVPS (D)	RM1-8087-000CN	1
16	Cable, laser FCC 1	RK2-3941-000CN	1
17	Cable, rear assembly	RM1-8084-000CN	1
18	Upper HVPS (T)	RM1-8088-000CN	1
19	Cable, laser FCC 2	RK2-3943-000CN	1
20	DC Controller	RM1-8119-000CN	1
27	Cable, MP sensor assembly	RM1-5737-000CN	1
29	Interconnect PCA (ICB)	RM1-8086-000CN	1
30	LVPS (110V)	RM1-8102-000CN	1
30	LVPS (220V)	RM1-8103-000CN	1

Table 2-16 Internal assemblies (6 of 6)

Ref	Description	Part number	Qty
1	Duplexing unit cable assembly	RM1-5730-000CN	1
6	Spring, tension	RU6-2405-000CN	1
7	Lifter drive assembly	RM1-4976-000CN	1
8	Main motor unit (M3, M4, M5)	RM1-8105-000CN	3
12	Connector, drawer	VS1-7258-007CN	1
13	Photo interrupter (SR5)	WG8-5935-000CN	1
14	Paper pick up drive assembly	RM1-8135-000CN	1
17	Spring, compression	RU7-2193-000CN	1
19	Rear Pre-exposure PCA assembly	RM1-8174-000CN	1
21	Pickup motor assembly (M13)	RM1-5773-000CN	1
22	Fusing drive assembly	RM1-8134-000CN	1
24	Duplex drive assembly	RM1-4973-000CN	1
25	Fusing motor assembly (M2)	RM1-4983-000CN	1
27	Stepping motor, DC (M10)	RK2-2415-000CN	1

Tray 2

Figure 2-15 Tray 2

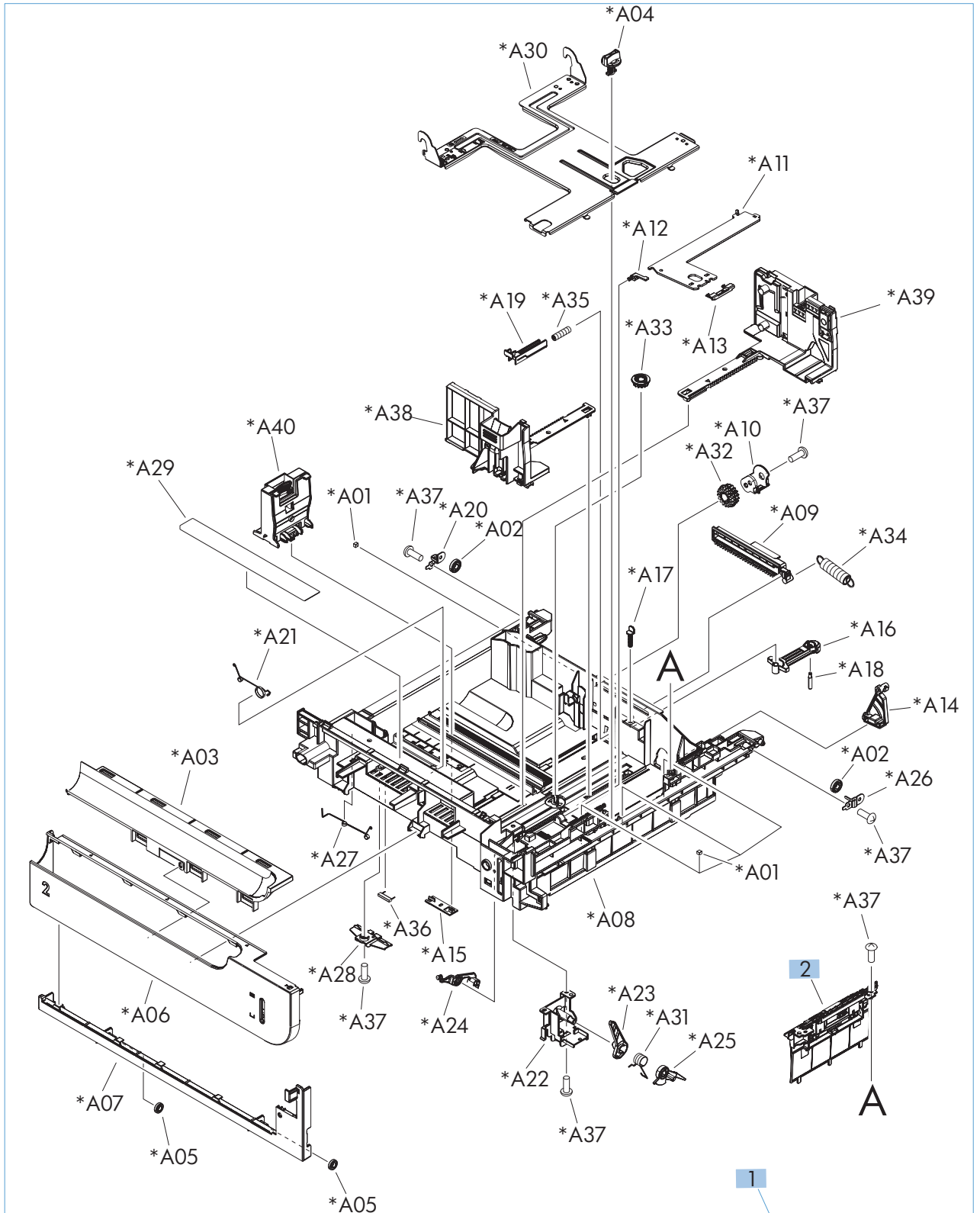


Table 2-17 Tray 2

Ref	Description	Part number	Qty
1	Tray 2	RM1-6198-000CN	1
2	Separation roller assembly (part of roller kit)	CD644-67904	1

Paper pickup assembly

Figure 2-16 Paper pickup assembly (Tray 2)

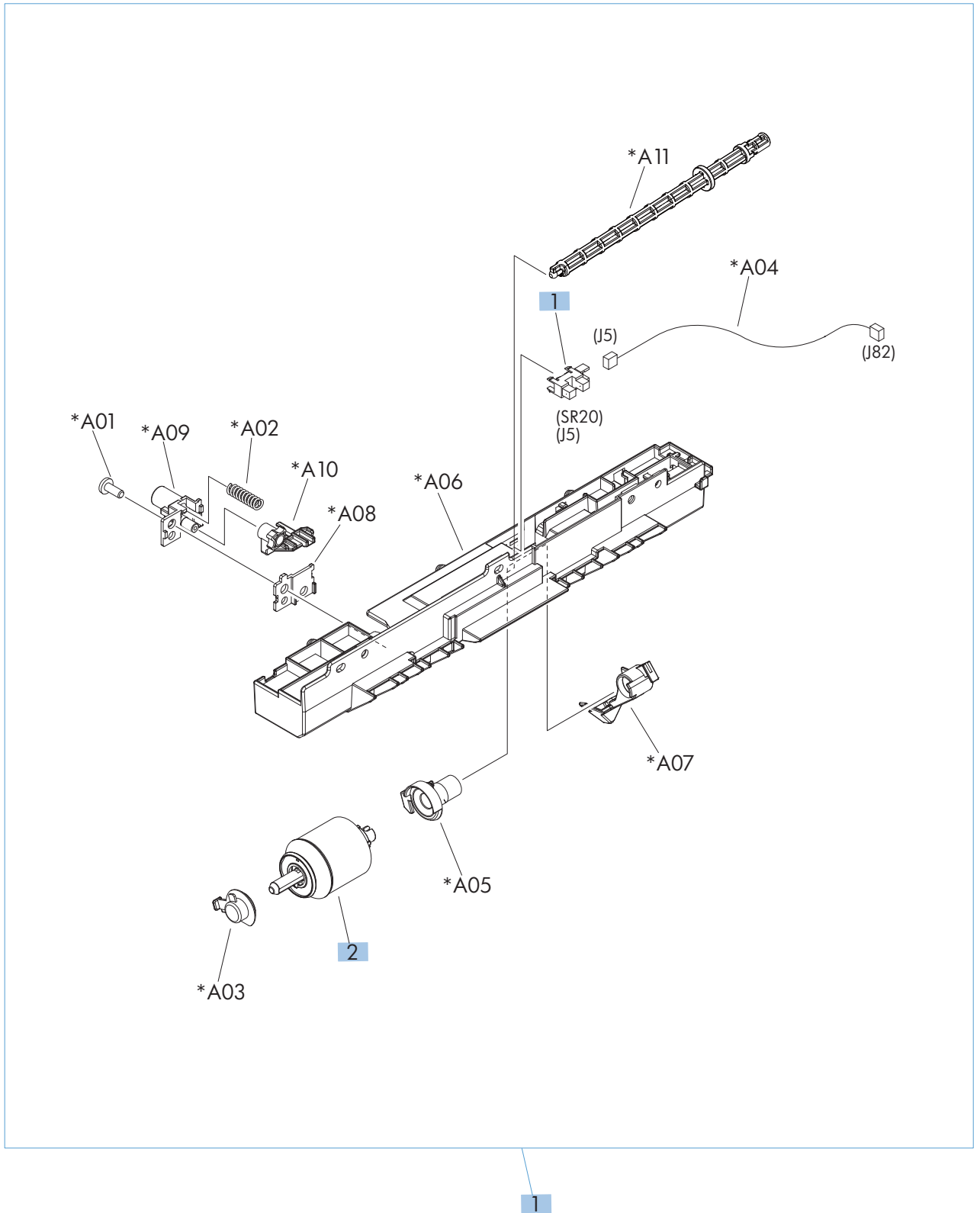


Table 2-18 Paper pickup assembly (Tray 2)

Ref	Description	Part number	Qty
1	Paper pickup assembly	RM1-4967-000CN	1
2	Pickup roller	RM1-4968-040CN	1
3	Photointerrupter	WG8-5935-000CN	1

PCAs

Figure 2-17 PCAs

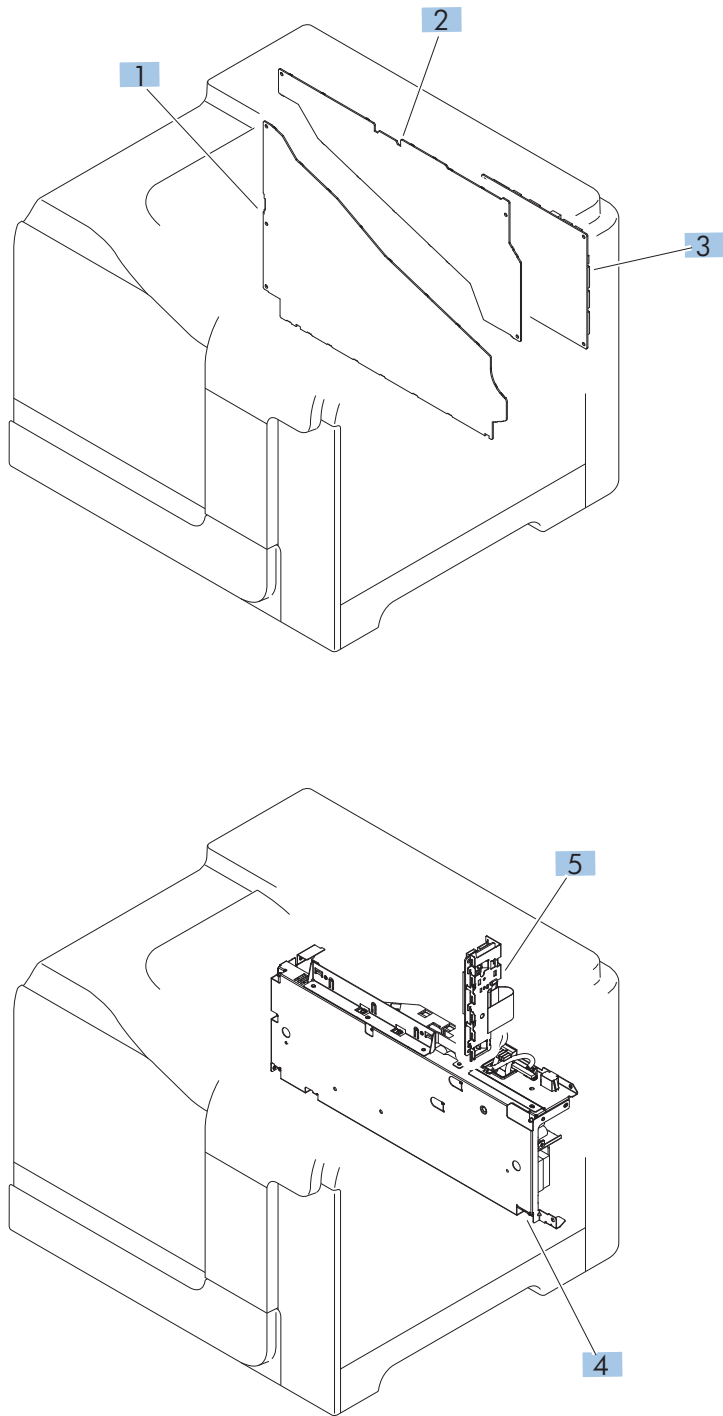


Table 2-19 PCAs

Ref	Description	Part number	Qty
1	Lower HVPS-D PCA	RM1-8087-000CN	1
2	Upper HVPS-T PCA	RM1-8088-000CN	1
3	DC controller PCA	RM1-8104-000CN	1
4	Low-voltage power supply 110V	RM1-8102-000CN	1
4	Low-voltage power supply 220V	RM1-8103-000CN	1
5	Inner connecting PCA (ICB)	RM1-8143-000CN	1
Not shown	Formatter assembly kit (New)	CD644-67909	1
Not shown	Formatter assembly kit (China)	CD644-67910	1

Assessories

1 x 500-sheet paper feeder

Figure 2-18 1 x 500-sheet paper feeder

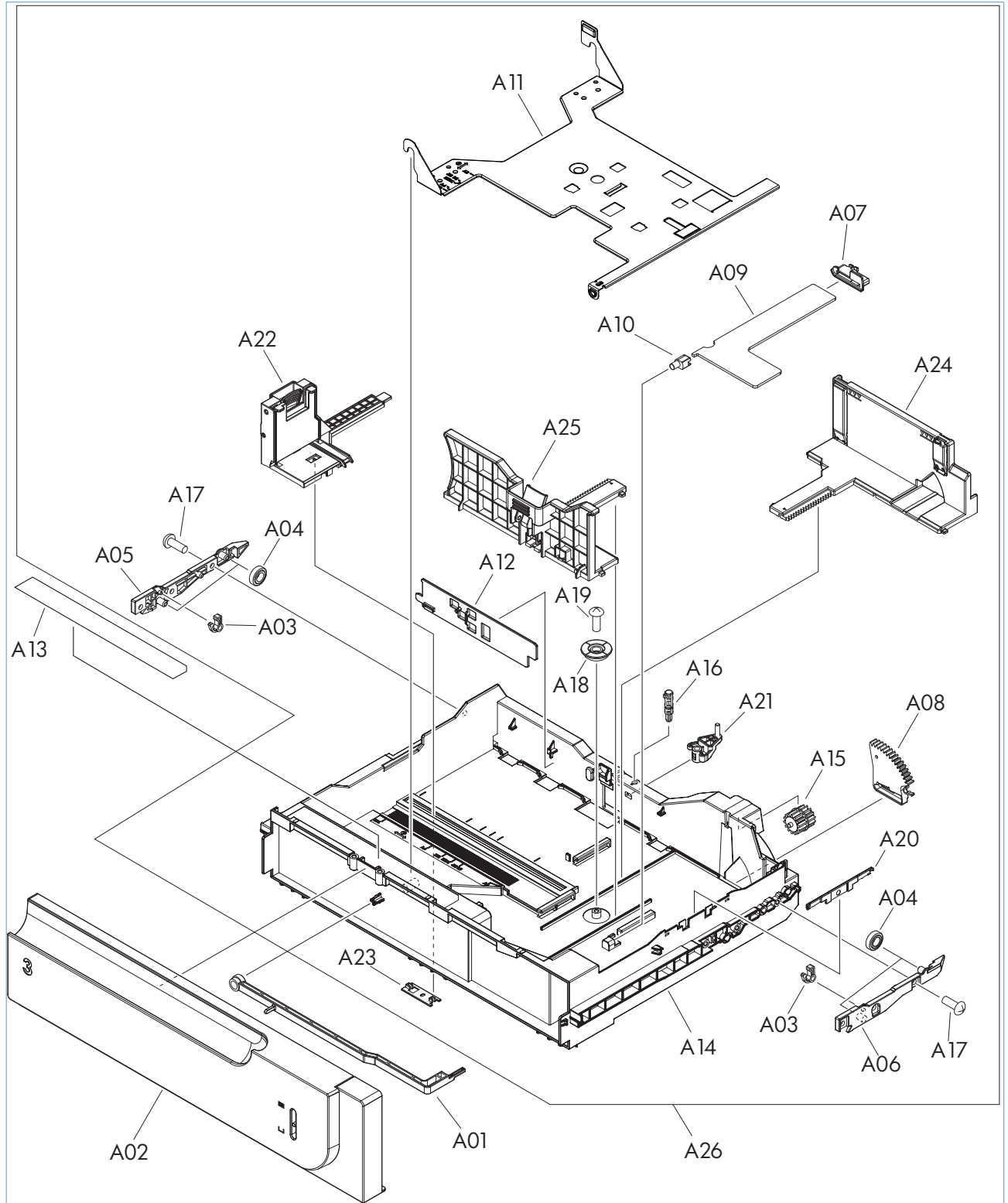


Table 2-20 1 x 500-sheet paper feeder

Ref	Description	Part number	Qty
1	1 x 500-sheet feeder replacement kit	CF084-67901	1

Paper feeder covers

Figure 2-19 Paper feeder covers

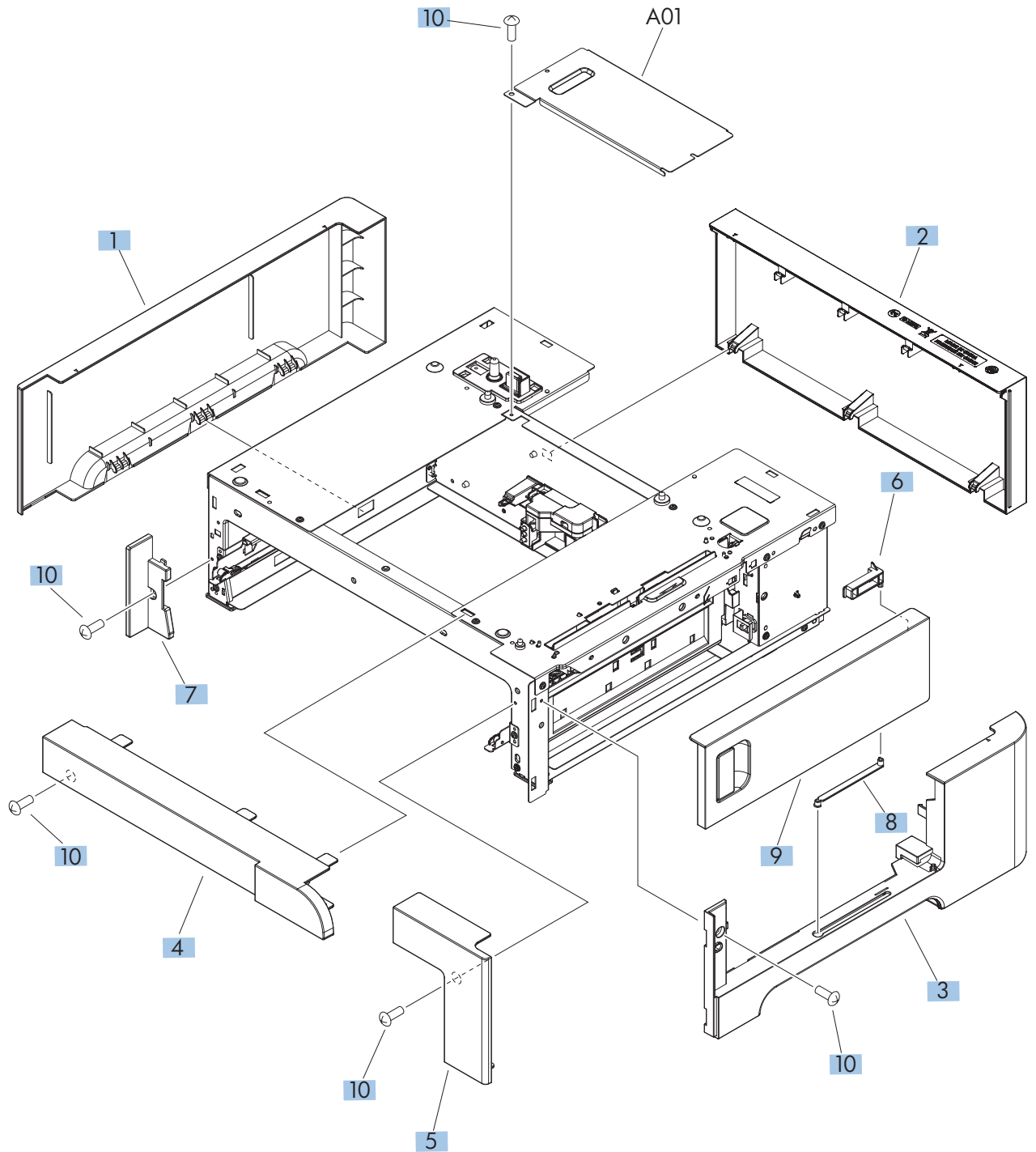


Table 2-21 Paper feeder covers

Ref	Description	Part number	Qty
1	Cover, left	RC2-5428-000CN	1
2	Cover, rear	RC2-5429-000CN	1
3	Cover, right	RC2-5427-000CN	1
4	Cover, front upper	RC2-5425-000CN	1
5	Cover, front right	RC2-5426-000CN	1
6	Stopper, door	CC468-67913	1
7	Cover, left front	RC2-5430-000CN	1
8	Link, door right	CC468-67913	1
9	Right door assembly	CC468-67913	1

Table 2-22 Paper feeder main body

Ref	Description	Part number	Qty
1	Lifter base assembly	RM1-5913-000CN	1
2	Paper feed assembly	RM1-6194-030CN	1
4	Paper pickup assembly	RM1-5919-000CN	1
5	Paper feed roller assembly	CD644-67904	1
6	Roller, paper pickup	CD644-67904	1
13	Drawer connector	VS1-7257-007CN	1
14	Holder, drawer connector	RC2-5416-000CN	1

Paper feeder tray

Figure 2-21 Tray

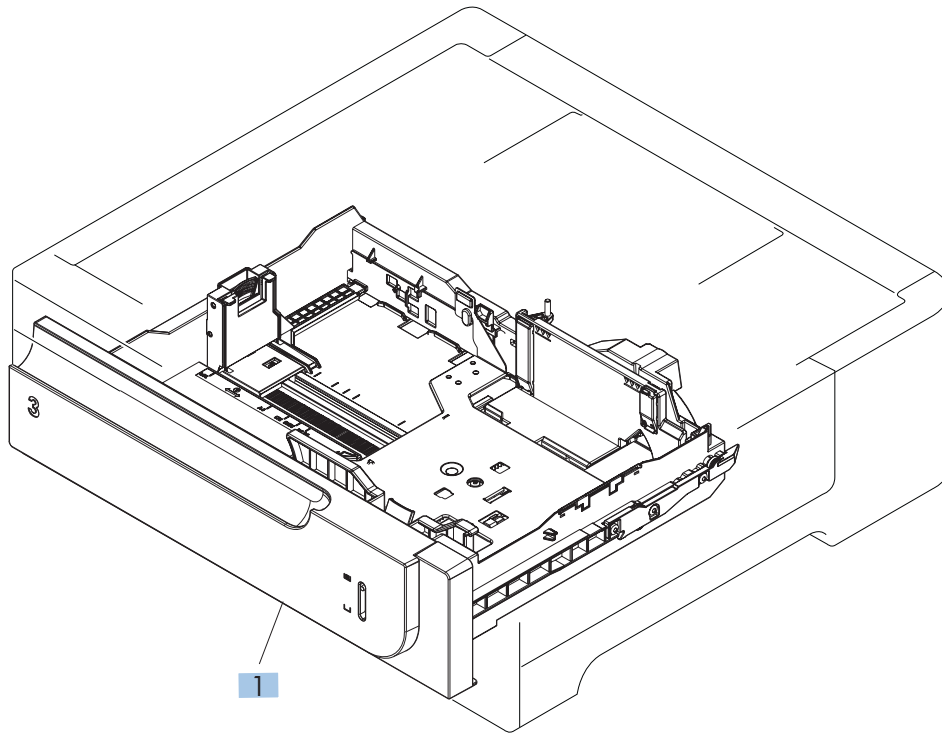


Table 2-23 Tray

Ref	Description	Part number	Qty
1	Tray 3	RM1-6198-000CN	1

Paper feeder PCA

Figure 2-22 Paper feeder PCA

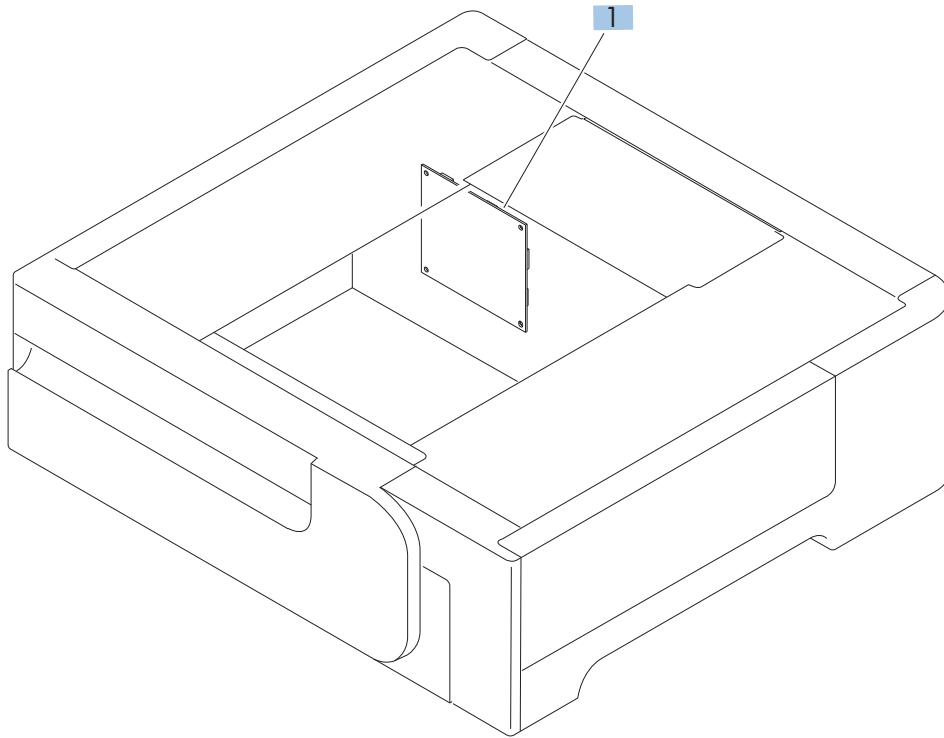


Table 2-24 Paper feeder PCA

Ref	Description	Part number	Qty
1	PCA, paper feeder driver (1 x 500)	RM1-5839-000CN	1

Alphabetical parts list

Table 2-25 Alphabetical parts list

Description	Part number	Table and page
1 x 500-sheet feeder replacement kit	CF084-67901	1 x 500-sheet paper feeder on page 255
ADF hinge assembly	Q7404-60024	ADF assemblies on page 231
ADF roller cover	CC355-40013	ADF assemblies on page 231
ADF separation pad spring	5851-4879	ADF assemblies on page 231
ADF tray extender	Q7404-40020	ADF assemblies on page 231
ADF whole unit	CD644-67918	ADF and scanner assemblies on page 227
Arm, interlock link switch	RC2-5121-000CN	Internal assemblies (3 of 6) on page 241
Arm, shutter front	RC2-4406-000CN	Internal assemblies (2 of 6) on page 239
Arm, shutter rear	RC2-4407-030CN	Internal assemblies (2 of 6) on page 239
Base assembly	RM1-8149-000CN	Internal assemblies (2 of 6) on page 239
Button, power supply	RL1-1947-000CN	Internal assemblies (3 of 6) on page 241
Cable harness merge assy	Q7404-50005	Scanner assemblies on page 233
Cable, laser FCC 1	RK2-3941-000CN	Internal assemblies (5 of 6) on page 245
Cable, laser FCC 2	RK2-3943-000CN	Internal assemblies (5 of 6) on page 245
Cable, MP sensor assembly	RM1-5737-000CN	Internal assemblies (5 of 6) on page 245
Cable, rear assembly	RM1-8084-000CN	Internal assemblies (5 of 6) on page 245
Cartridge lock lever holder	RC2-5957-000CN	Internal assemblies (2 of 6) on page 239
Cartridge lock lever holder	RC3-1075-000CN	Internal assemblies (2 of 6) on page 239
Cartridge lock lever holder	RC2-5956-000CN	Internal assemblies (2 of 6) on page 239
Cave light	CF116-60104	Scanner assemblies on page 233

Table 2-25 Alphabetical parts list (continued)

Description	Part number	Table and page
Connecting cable assembly	RM1-5749-000CN	Internal assemblies (2 of 6) on page 239
Connector, drawer	VS1-7258-007CN	Internal assemblies (6 of 6) on page 247
Control panel	CD644-67916	ADF and scanner assemblies on page 227
Control panel assembly kit	CD644-67916	Control panel assembly on page 229
Control panel cover assembly	RM1-9198-000CN	External covers, panels, and doors on page 225
Control-panel cable	CF116-60105	Control panel assembly on page 229
Cover	RC2-5912-000CN	Internal assemblies (2 of 6) on page 239
Cover	RC2-5962-000CN	Internal assemblies (2 of 6) on page 239
Cover, ADF cable	5851-0630	Scanner assemblies on page 233
Cover, ADF front	Q7404-40030	ADF assemblies on page 231
Cover, ADF rear	Q7404-40007	ADF assemblies on page 231
Cover, front inner lower	RL1-1915-000CN	Internal assemblies (1 of 6) on page 237
Cover, front inner lower unit	RL1-1914-020CN	Internal assemblies (1 of 6) on page 237
Cover, front inner upper	RC3-1070-000CN	Internal assemblies (1 of 6) on page 237
Cover, front right	RC2-5426-000CN	Paper feeder covers on page 257
Cover, front upper	RC2-5425-000CN	Paper feeder covers on page 257
Cover, hatch	Q7404-40006	ADF assemblies on page 231
Cover, image scanner unit	RRC3-2097-000CN	External covers, panels, and doors on page 225
Cover, inner right lower	RC2-5019-000CN	Internal assemblies (3 of 6) on page 241
Cover, left	RC2-5052-000CN	External covers, panels, and doors on page 225
Cover, left	RC2-5428-000CN	Paper feeder covers on page 257

Table 2-25 Alphabetical parts list (continued)

Description	Part number	Table and page
Cover, left front	RC2-5430-000CN	Paper feeder covers on page 257
Cover, left lower	RC2-5069-000CN	External covers, panels, and doors on page 225
Cover, left rear	RC3-2094-000CN	External covers, panels, and doors on page 225
Cover, rear	RC2-5048-000CN	External covers, panels, and doors on page 225
Cover, rear	RC2-5429-000CN	Paper feeder covers on page 257
Cover, rear right	RC2-5057-000CN	External covers, panels, and doors on page 225
Cover, rear scanner	CF116-40002	Scanner assemblies on page 233
Cover, right	RC3-2095-000CN	External covers, panels, and doors on page 225
Cover, right	RC2-5427-000CN	Paper feeder covers on page 257
Cover, right door gear rear	RC2-4924-000CN	External covers, panels, and doors on page 225
Cover, right front	RC2-5056-000CN	External covers, panels, and doors on page 225
Cover, right lower	RC2-5059-000CN	External covers, panels, and doors on page 225
Cover, right rear	RC3-2096-000CN	External covers, panels, and doors on page 225
Cover, stapler switch	RC3-2116-000CN	Internal assemblies (1 of 6) on page 237
Cover, stapler unit	RM1-9199-000CN	External covers, panels, and doors on page 225
Cover, upper rear	RC3-2092-000CN	External covers, panels, and doors on page 225
Cover, upper right	RC3-2093-000CN	External covers, panels, and doors on page 225
DC Controller	RM1-8119-000CN	Internal assemblies (5 of 6) on page 245
DC controller PCA	RM1-8104-000CN	PCAs on page 253
Density detect assembly	RM1-8163-000CN	Internal assemblies (3 of 6) on page 241

Table 2-25 Alphabetical parts list (continued)

Description	Part number	Table and page
Door switch assembly (SW2)	RM1-5732-000CN	Internal assemblies (3 of 6) on page 241
Drawer connector	VS1-7257-007CN	Paper feeder main body on page 259
Duplex drive assembly	RM1-4973-000CN	Internal assemblies (6 of 6) on page 247
Duplexing paper feed assembly	RM1-4959-000CN	Right-door assembly on page 235
Duplexing unit cable assembly	RM1-5730-000CN	Internal assemblies (6 of 6) on page 247
Fan (FM1)	RK2-2416-000CN	Internal assemblies (5 of 6) on page 245
Fan (FM2, FM3)	RK2-2418-000CN	Internal assemblies (2 of 6) on page 239
Fan cable assembly	RM1-5746-000CN	Internal assemblies (2 of 6) on page 239
Formatter assembly kit (China)	CD644-67910	PCAs on page 253
Formatter assembly kit (New)	CD644-67909	PCAs on page 253
Front lock arm assembly	RM1-5532-000CN	Internal assemblies (3 of 6) on page 241
Fuser 110v	CD644-67906	Internal assemblies (3 of 6) on page 241
Fuser 220v	CD644-67907	Internal assemblies (3 of 6) on page 241
Fusing connecting cable assembly	RM1-5714-000CN	Internal assemblies (5 of 6) on page 245
Fusing drive assembly	RM1-8134-000CN	Internal assemblies (6 of 6) on page 247
Fusing motor assembly (M2)	RM1-4983-000CN	Internal assemblies (6 of 6) on page 247
Guide, cable	RC3-2103-000CN	External covers, panels, and doors on page 225
Guide, door latch right	RC2-4914-000CN	Internal assemblies (1 of 6) on page 237
Guide, light	RC2-4426-000CN	Internal assemblies (1 of 6) on page 237
Guide, option entrance	RC2-4915-000CN	Internal assemblies (3 of 6) on page 241
Holder, cartridge lock lever	RC2-5955-000CN	Internal assemblies (2 of 6) on page 239

Table 2-25 Alphabetical parts list (continued)

Description	Part number	Table and page
Holder, drawer connector	RC2-5416-000CN	Paper feeder main body on page 259
Inner connecting PCA (ICB)	RM1-8143-000CN	PCAs on page 253
Interconnect PCA (ICB)	RM1-8086-000CN	Internal assemblies (5 of 6) on page 245
ITB kit	CD644-67908	Internal assemblies (3 of 6) on page 241
Kit, Tray 1 roller (pickup roller and separation pad)	CD644-67903	Right-door assembly on page 235
Left cable assembly	RM1-5742-000CN	Internal assemblies (1 of 6) on page 237
Lever, box presence detect	RC2-5951-000CN	Internal assemblies (1 of 6) on page 237
Lever, cartridge lock lever	RC2-5954-000CN	Internal assemblies (2 of 6) on page 239
Lever, cartridge pressure front	RC2-3983-030CN	Internal assemblies (1 of 6) on page 237
Lever, shutter	RC2-4415-000CN	Internal assemblies (2 of 6) on page 239
Lever, switch	RC3-1208-000CN	Internal assemblies (3 of 6) on page 241
Lifter base assembly	RM1-5913-000CN	Paper feeder main body on page 259
Lifter drive assembly	RM1-4976-000CN	Internal assemblies (6 of 6) on page 247
Link, door right	CC468-67913	Paper feeder covers on page 257
Link, door stopper	RC2-4916-000CN	Internal assemblies (3 of 6) on page 241
Link, door stopper	RC2-4916-000CN	Internal assemblies (5 of 6) on page 245
Link, interlock	RC2-5119-000CN	Internal assemblies (3 of 6) on page 241
Link, interlock	RC2-5118-000CN	Internal assemblies (3 of 6) on page 241
Link, interlock (SW1)	RC2-5120-000CN	Internal assemblies (3 of 6) on page 241
Lock, door	RC2-5937-000CN	Internal assemblies (1 of 6) on page 237
Low-voltage power supply 110V	RM1-8102-000CN	PCAs on page 253

Table 2-25 Alphabetical parts list (continued)

Description	Part number	Table and page
Low-voltage power supply 220V	RM1-8103-000CN	PCAs on page 253
Lower HVPS (D)	RM1-8087-000CN	Internal assemblies (5 of 6) on page 245
Lower HVPS-D PCA	RM1-8087-000CN	PCAs on page 253
LVPS (110V)	RM1-8102-000CN	Internal assemblies (5 of 6) on page 245
LVPS (220V)	RM1-8103-000CN	Internal assemblies (5 of 6) on page 245
Main motor unit (M3, M4, M5)	RM1-8105-000CN	Internal assemblies (6 of 6) on page 247
Microswitch (SW3)	WC4-5171-000CN	Internal assemblies (3 of 6) on page 241
Motor/sensor cable assembly	RM1-5752-000CN	Internal assemblies (2 of 6) on page 239
Mount, interlock switch	RC2-5123-000CN	Internal assemblies (3 of 6) on page 241
Paper delivery assembly	RM1-4970-060CN	Internal assemblies (3 of 6) on page 241
Paper feed assembly	RM1-6194-030CN	Paper feeder main body on page 259
Paper feed roller assembly	CD644-67904	Paper feeder main body on page 259
Paper pick up assembly	RM1-4967-000CN	Internal assemblies (3 of 6) on page 241
Paper pick up drive assembly	RM1-8135-000CN	Internal assemblies (6 of 6) on page 247
Paper pickup assembly	RM1-4967-000CN	Paper pickup assembly (Tray 2) on page 251
Paper pickup assembly	RM1-5919-000CN	Paper feeder main body on page 259
PCA, paper feeder driver (1 x 500)	RM1-5839-000CN	Paper feeder PCA on page 263
PCA, scanner memory	CF116-67923	Scanner assemblies on page 233
Photo interrupter (SR5)	WG8-5935-000CN	Internal assemblies (6 of 6) on page 247
Photointerrupter	WG8-5935-000CN	Paper pickup assembly (Tray 2) on page 251
Pick up lower guide assembly	RM1-9192-000CN	Internal assemblies (3 of 6) on page 241

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Pickup roller	RM1-4968-040CN	Paper pickup assembly (Tray 2) on page 251
Plate, blanking	RC2-5938-000CN	External covers, panels, and doors on page 225
Rear handle	RC2-5042-000CN	Internal assemblies (5 of 6) on page 245
Rear lock arm assembly	RM1-5533-000CN	Internal assemblies (3 of 6) on page 241
Rear Pre-exposure PCA assembly	RM1-8174-000CN	Internal assemblies (6 of 6) on page 247
Registration assembly	RM1-4969-000CN	Internal assemblies (3 of 6) on page 241
Right door assembly	RM1-8123-000CN	Right-door assembly on page 235
Right door assembly	CC468-67913	Paper feeder covers on page 257
Roller, paper pickup	CD644-67904	Paper feeder main body on page 259
Scanner whole unit	CD644-67922	ADF and scanner assemblies on page 227
Secondary transfer assembly	RM1-4952-030CN	Internal assemblies (3 of 6) on page 241
Secondary transfer roller	CD644-67914	Internal assemblies (3 of 6) on page 241
Sensor cable assembly	RM1-5740-000CN	Internal assemblies (2 of 6) on page 239
Sensor cable assembly	RM1-5741-000CN	Internal assemblies (2 of 6) on page 239
Sensor cable guide assembly (SR7)	RM1-8178-000CN	Internal assemblies (3 of 6) on page 241
Separation roller assembly (part of roller kit)	CD644-67904	Tray 2 on page 249
Separation roller assy (part of roller kit)	RM1-4966-020CN	Internal assemblies (2 of 6) on page 239
Shaft	RC2-5913-000CN	Internal assemblies (3 of 6) on page 241
Shutter assembly	RM1-4999-000CN	Internal assemblies (2 of 6) on page 239

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Description	Part number	Table and page
Shutter assembly	RM1-5488-000CN	Internal assemblies (2 of 6) on page 239
Spring	RC3-1212-000CN	Internal assemblies (3 of 6) on page 241
Spring, compression	RU6-2567-000CN	Internal assemblies (1 of 6) on page 237
Spring, compression	RU6-2568-000CN	Internal assemblies (1 of 6) on page 237
Spring, compression	RU6-2318-000CN	Internal assemblies (2 of 6) on page 239
Spring, compression	RU6-2316-000CN	Internal assemblies (2 of 6) on page 239
Spring, compression	RC2-5021-000CN	Internal assemblies (5 of 6) on page 245
Spring, compression	RU7-2193-000CN	Internal assemblies (6 of 6) on page 247
Spring, ground	RU6-2237-000CN	Internal assemblies (1 of 6) on page 237
Spring, grounding	RC2-5148-000CN	Internal assemblies (5 of 6) on page 245
Spring, tension	RU7-2192-000CN	Internal assemblies (1 of 6) on page 237
Spring, tension	RU6-2436-000CN	Internal assemblies (2 of 6) on page 239
Spring, tension	RU6-2405-000CN	Internal assemblies (6 of 6) on page 247
Spring, torsion	RC2-5958-000CN	Internal assemblies (2 of 6) on page 239
Spring, torsion	RC2-4378-000CN	Internal assemblies (3 of 6) on page 241
Spring, torsion	RU6-2268-000CN	Internal assemblies (3 of 6) on page 241
Spring, torsion	RC2-4377-000CN	Internal assemblies (3 of 6) on page 241
Spring, torsion	RC2-5122-000CN	Internal assemblies (3 of 6) on page 241
Stand assembly	RM1-5588-000CN	Internal assemblies (2 of 6) on page 239
Stepping motor, DC (M10)	RK2-2415-000CN	Internal assemblies (6 of 6) on page 247

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Stopper, door	CC468-67913	Paper feeder covers on page 257
Switch arm	RC2-5943-000CN	Internal assemblies (5 of 6) on page 245
Switch cable assembly	RM1-8065-000CN	Internal assemblies (3 of 6) on page 241
Switch PCA assembly	RM1-8097-000CN	Internal assemblies (3 of 6) on page 241
Temperature sensor unit	RK2-3267-000CN	Internal assemblies (2 of 6) on page 239
Toner collection unit (TCU)	RM1-4989-000CN	Internal assemblies (1 of 6) on page 237
Toner sensor holder assembly	RM1-5700-000CN	Internal assemblies (2 of 6) on page 239
Tray 2	RM1-4962-060CN	Internal assemblies (2 of 6) on page 239
Tray 2	RM1-6198-000CN	Tray 2 on page 249
Tray 3	RM1-6198-000CN	Tray on page 261
Tray, paper delivery	RL1-1941-030CN	External covers, panels, and doors on page 225
Upper HVPS (T)	RM1-8088-000CN	Internal assemblies (5 of 6) on page 245
Upper HVPS-T PCA	RM1-8088-000CN	PCAs on page 253
Waste toner box seal	RC2-4780-000CN	Internal assemblies (1 of 6) on page 237
Waste toner detect assembly	RM1-5696-000CN	Internal assemblies (1 of 6) on page 237
Waste toner duct assembly	RM1-8138-000CN	Internal assemblies (1 of 6) on page 237
Wire (mech) sensor project	RC2-4828-000CN	Internal assemblies (3 of 6) on page 241

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Table 2-26 Numerical parts list

Part number	Description	Table and page
5851-0630	Cover, ADF cable	Scanner assemblies on page 233
5851-4879	ADF separation pad spring	ADF assemblies on page 231
CC355-40013	ADF roller cover	ADF assemblies on page 231
CC468-67913	Stopper, door	Paper feeder covers on page 257
CC468-67913	Link, door right	Paper feeder covers on page 257
CC468-67913	Right door assembly	Paper feeder covers on page 257
CD644-67903	Kit, Tray 1 roller (pickup roller and separation pad)	Right-door assembly on page 235
CD644-67904	Separation roller assembly (part of roller kit)	Tray 2 on page 249
CD644-67904	Paper feed roller assembly	Paper feeder main body on page 259
CD644-67904	Roller, paper pickup	Paper feeder main body on page 259
CD644-67906	Fuser 110v	Internal assemblies (3 of 6) on page 241
CD644-67907	Fuser 220v	Internal assemblies (3 of 6) on page 241
CD644-67908	ITB kit	Internal assemblies (3 of 6) on page 241
CD644-67909	Formatter assembly kit (New)	PCAs on page 253
CD644-67910	Formatter assembly kit (China)	PCAs on page 253
CD644-67914	Secondary transfer roller	Internal assemblies (3 of 6) on page 241
CD644-67916	Control panel	ADF and scanner assemblies on page 227
CD644-67916	Control panel assembly kit	Control panel assembly on page 229
CD644-67918	ADF whole unit	ADF and scanner assemblies on page 227
CD644-67922	Scanner whole unit	ADF and scanner assemblies on page 227
CF084-67901	1 x 500-sheet feeder replacement kit	1 x 500-sheet paper feeder on page 255

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Part number	Description	Table and page
CF116-40002	Cover, rear scanner	Scanner assemblies on page 233
CF116-60104	Cave light	Scanner assemblies on page 233
CF116-60105	Control-panel cable	Control panel assembly on page 229
CF116-67923	PCA, scanner memory	Scanner assemblies on page 233
Q7404-40006	Cover, hatch	ADF assemblies on page 231
Q7404-40007	Cover, ADF rear	ADF assemblies on page 231
Q7404-40020	ADF tray extender	ADF assemblies on page 231
Q7404-40030	Cover, ADF front	ADF assemblies on page 231
Q7404-50005	Cable harness merge assy	Scanner assemblies on page 233
Q7404-60024	ADF hinge assembly	ADF assemblies on page 231
RC2-3983-030CN	Lever, cartridge pressure front	Internal assemblies (1 of 6) on page 237
RC2-4377-000CN	Spring, torsion	Internal assemblies (3 of 6) on page 241
RC2-4378-000CN	Spring, torsion	Internal assemblies (3 of 6) on page 241
RC2-4406-000CN	Arm, shutter front	Internal assemblies (2 of 6) on page 239
RC2-4407-030CN	Arm, shutter rear	Internal assemblies (2 of 6) on page 239
RC2-4415-000CN	Lever, shutter	Internal assemblies (2 of 6) on page 239
RC2-4426-000CN	Guide, light	Internal assemblies (1 of 6) on page 237
RC2-4780-000CN	Waste toner box seal	Internal assemblies (1 of 6) on page 237
RC2-4828-000CN	Wire (mech) sensor project	Internal assemblies (3 of 6) on page 241
RC2-4914-000CN	Guide, door latch right	Internal assemblies (1 of 6) on page 237
RC2-4915-000CN	Guide, option entrance	Internal assemblies (3 of 6) on page 241
RC2-4916-000CN	Link, door stopper	Internal assemblies (3 of 6) on page 241

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Part number	Description	Table and page
RC2-4916-000CN	Link, door stopper	Internal assemblies (5 of 6) on page 245
RC2-4924-000CN	Cover, right door gear rear	External covers, panels, and doors on page 225
RC2-5019-000CN	Cover, inner right lower	Internal assemblies (3 of 6) on page 241
RC2-5021-000CN	Spring, compression	Internal assemblies (5 of 6) on page 245
RC2-5042-000CN	Rear handle	Internal assemblies (5 of 6) on page 245
RC2-5048-000CN	Cover, rear	External covers, panels, and doors on page 225
RC2-5052-000CN	Cover, left	External covers, panels, and doors on page 225
RC2-5056-000CN	Cover, right front	External covers, panels, and doors on page 225
RC2-5057-000CN	Cover, rear right	External covers, panels, and doors on page 225
RC2-5059-000CN	Cover, right lower	External covers, panels, and doors on page 225
RC2-5069-000CN	Cover, left lower	External covers, panels, and doors on page 225
RC2-5118-000CN	Link, interlock	Internal assemblies (3 of 6) on page 241
RC2-5119-000CN	Link, interlock	Internal assemblies (3 of 6) on page 241
RC2-5120-000CN	Link, interlock (SW1)	Internal assemblies (3 of 6) on page 241
RC2-5121-000CN	Arm, interlock link switch	Internal assemblies (3 of 6) on page 241
RC2-5122-000CN	Spring, torsion	Internal assemblies (3 of 6) on page 241
RC2-5123-000CN	Mount, interlock switch	Internal assemblies (3 of 6) on page 241
RC2-5148-000CN	Spring, grounding	Internal assemblies (5 of 6) on page 245
RC2-5416-000CN	Holder, drawer connector	Paper feeder main body on page 259
RC2-5425-000CN	Cover, front upper	Paper feeder covers on page 257

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Part number	Description	Table and page
RC2-5426-000CN	Cover, front right	Paper feeder covers on page 257
RC2-5427-000CN	Cover, right	Paper feeder covers on page 257
RC2-5428-000CN	Cover, left	Paper feeder covers on page 257
RC2-5429-000CN	Cover, rear	Paper feeder covers on page 257
RC2-5430-000CN	Cover, left front	Paper feeder covers on page 257
RC2-5912-000CN	Cover	Internal assemblies (2 of 6) on page 239
RC2-5913-000CN	Shaft	Internal assemblies (3 of 6) on page 241
RC2-5937-000CN	Lock, door	Internal assemblies (1 of 6) on page 237
RC2-5938-000CN	Plate, blanking	External covers, panels, and doors on page 225
RC2-5943-000CN	Switch arm	Internal assemblies (5 of 6) on page 245
RC2-5951-000CN	Lever, box presence detect	Internal assemblies (1 of 6) on page 237
RC2-5954-000CN	Lever, cartridge lock lever	Internal assemblies (2 of 6) on page 239
RC2-5955-000CN	Holder, cartridge lock lever	Internal assemblies (2 of 6) on page 239
RC2-5956-000CN	Cartridge lock lever holder	Internal assemblies (2 of 6) on page 239
RC2-5957-000CN	Cartridge lock lever holder	Internal assemblies (2 of 6) on page 239
RC2-5958-000CN	Spring, torsion	Internal assemblies (2 of 6) on page 239
RC2-5962-000CN	Cover	Internal assemblies (2 of 6) on page 239
RC3-1070-000CN	Cover, front inner upper	Internal assemblies (1 of 6) on page 237
RC3-1075-000CN	Cartridge lock lever holder	Internal assemblies (2 of 6) on page 239
RC3-1208-000CN	Lever, switch	Internal assemblies (3 of 6) on page 241

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Part number	Description	Table and page
RC3-1212-000CN	Spring	Internal assemblies (3 of 6) on page 241
RC3-2092-000CN	Cover, upper rear	External covers, panels, and doors on page 225
RC3-2093-000CN	Cover, upper right	External covers, panels, and doors on page 225
RC3-2094-000CN	Cover, left rear	External covers, panels, and doors on page 225
RC3-2095-000CN	Cover, right	External covers, panels, and doors on page 225
RC3-2096-000CN	Cover, right rear	External covers, panels, and doors on page 225
RC3-2103-000CN	Guide, cable	External covers, panels, and doors on page 225
RC3-2116-000CN	Cover, stapler switch	Internal assemblies (1 of 6) on page 237
RK2-2415-000CN	Stepping motor, DC (M10)	Internal assemblies (6 of 6) on page 247
RK2-2416-000CN	Fan (FM1)	Internal assemblies (5 of 6) on page 245
RK2-2418-000CN	Fan (FM2, FM3)	Internal assemblies (2 of 6) on page 239
RK2-3267-000CN	Temperature sensor unit	Internal assemblies (2 of 6) on page 239
RK2-3941-000CN	Cable, laser FCC 1	Internal assemblies (5 of 6) on page 245
RK2-3943-000CN	Cable, laser FCC 2	Internal assemblies (5 of 6) on page 245
RL1-1914-020CN	Cover, front inner lower unit	Internal assemblies (1 of 6) on page 237
RL1-1915-000CN	Cover, front inner lower	Internal assemblies (1 of 6) on page 237
RL1-1941-030CN	Tray, paper delivery	External covers, panels, and doors on page 225
RL1-1947-000CN	Button, power supply	Internal assemblies (3 of 6) on page 241
RM1-4952-030CN	Secondary transfer assembly	Internal assemblies (3 of 6) on page 241
RM1-4959-000CN	Duplexing paper feed assembly	Right-door assembly on page 235

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Part number	Description	Table and page
RM1-4962-060CN	Tray 2	Internal assemblies (2 of 6) on page 239
RM1-4966-020CN	Separation roller assy (part of roller kit)	Internal assemblies (2 of 6) on page 239
RM1-4967-000CN	Paper pick up assembly	Internal assemblies (3 of 6) on page 241
RM1-4967-000CN	Paper pickup assembly	Paper pickup assembly (Tray 2) on page 251
RM1-4968-040CN	Pickup roller	Paper pickup assembly (Tray 2) on page 251
RM1-4969-000CN	Registration assembly	Internal assemblies (3 of 6) on page 241
RM1-4970-060CN	Paper delivery assembly	Internal assemblies (3 of 6) on page 241
RM1-4973-000CN	Duplex drive assembly	Internal assemblies (6 of 6) on page 247
RM1-4976-000CN	Lifter drive assembly	Internal assemblies (6 of 6) on page 247
RM1-4983-000CN	Fusing motor assembly (M2)	Internal assemblies (6 of 6) on page 247
RM1-4989-000CN	Toner collection unit (TCU)	Internal assemblies (1 of 6) on page 237
RM1-4999-000CN	Shutter assembly	Internal assemblies (2 of 6) on page 239
RM1-5488-000CN	Shutter assembly	Internal assemblies (2 of 6) on page 239
RM1-5532-000CN	Front lock arm assembly	Internal assemblies (3 of 6) on page 241
RM1-5533-000CN	Rear lock arm assembly	Internal assemblies (3 of 6) on page 241
RM1-5588-000CN	Stand assembly	Internal assemblies (2 of 6) on page 239
RM1-5696-000CN	Waste toner detect assembly	Internal assemblies (1 of 6) on page 237
RM1-5700-000CN	Toner sensor holder assembly	Internal assemblies (2 of 6) on page 239
RM1-5714-000CN	Fusing connecting cable assembly	Internal assemblies (5 of 6) on page 245
RM1-5730-000CN	Duplexing unit cable assembly	Internal assemblies (6 of 6) on page 247

Table 2-26 Numerical parts list (continued)

Part number	Description	Table and page
RM1-5732-000CN	Door switch assembly (SW2)	Internal assemblies (3 of 6) on page 241
RM1-5737-000CN	Cable, MP sensor assembly	Internal assemblies (5 of 6) on page 245
RM1-5740-000CN	Sensor cable assembly	Internal assemblies (2 of 6) on page 239
RM1-5741-000CN	Sensor cable assembly	Internal assemblies (2 of 6) on page 239
RM1-5742-000CN	Left cable assembly	Internal assemblies (1 of 6) on page 237
RM1-5746-000CN	Fan cable assembly	Internal assemblies (2 of 6) on page 239
RM1-5749-000CN	Connecting cable assembly	Internal assemblies (2 of 6) on page 239
RM1-5752-000CN	Motor/sensor cable assembly	Internal assemblies (2 of 6) on page 239
RM1-5773-000CN	Pickup motor assembly (M13)	Internal assemblies (6 of 6) on page 247
RM1-5839-000CN	PCA, paper feeder driver (1 x 500)	Paper feeder PCA on page 263
RM1-5913-000CN	Lifter base assembly	Paper feeder main body on page 259
RM1-5919-000CN	Paper pickup assembly	Paper feeder main body on page 259
RM1-6194-030CN	Paper feed assembly	Paper feeder main body on page 259
RM1-6198-000CN	Tray 2	Tray 2 on page 249
RM1-6198-000CN	Tray 3	Tray on page 261
RM1-8065-000CN	Switch cable assembly	Internal assemblies (3 of 6) on page 241
RM1-8084-000CN	Cable, rear assembly	Internal assemblies (5 of 6) on page 245
RM1-8086-000CN	Interconnect PCA (ICB)	Internal assemblies (5 of 6) on page 245
RM1-8087-000CN	Lower HVPS (D)	Internal assemblies (5 of 6) on page 245
RM1-8087-000CN	Lower HVPS-D PCA	PCAs on page 253
RM1-8088-000CN	Upper HVPS (T)	Internal assemblies (5 of 6) on page 245

Table 2-26 Numerical parts list (continued)

Part number	Description	Table and page
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RM1-8102-000CN	LVPS (110V)	Internal assemblies (5 of 6) on page 245
RM1-8102-000CN	Low-voltage power supply 110V	PCAs on page 253
RM1-8103-000CN	LVPS (220V)	Internal assemblies (5 of 6) on page 245
RM1-8103-000CN	Low-voltage power supply 220V	PCAs on page 253
RM1-8104-000CN	DC controller PCA	PCAs on page 253
RM1-8105-000CN	Main motor unit (M3, M4, M5)	Internal assemblies (6 of 6) on page 247
RM1-8119-000CN	DC Controller	Internal assemblies (5 of 6) on page 245
RM1-8123-000CN	Right door assembly	Right-door assembly on page 235
RM1-8134-000CN	Fusing drive assembly	Internal assemblies (6 of 6) on page 247
RM1-8135-000CN	Paper pick up drive assembly	Internal assemblies (6 of 6) on page 247
RM1-8138-000CN	Waste toner duct assembly	Internal assemblies (1 of 6) on page 237
RM1-8143-000CN	Inner connecting PCA (ICB)	PCAs on page 253
RM1-8149-000CN	Base assembly	Internal assemblies (2 of 6) on page 239
RM1-8163-000CN	Density detect assembly	Internal assemblies (3 of 6) on page 241
RM1-8174-000CN	Rear Pre-exposure PCA assembly	Internal assemblies (6 of 6) on page 247
RM1-8178-000CN	Sensor cable guide assembly (SR7)	Internal assemblies (3 of 6) on page 241
RM1-9192-000CN	Pick up lower guide assembly	Internal assemblies (3 of 6) on page 241
RM1-9198-000CN	Control panel cover assembly	External covers, panels, and doors on page 225
RM1-9199-000CN	Cover, stapler unit	External covers, panels, and doors on page 225
RRC3-2097-000CN	Cover, image scanner unit	External covers, panels, and doors on page 225

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Part number	Description	Table and page
RU6-2237-000CN	Spring, ground	Internal assemblies (1 of 6) on page 237
RU6-2268-000CN	Spring, torsion	Internal assemblies (3 of 6) on page 241
RU6-2316-000CN	Spring, compression	Internal assemblies (2 of 6) on page 239
RU6-2318-000CN	Spring, compression	Internal assemblies (2 of 6) on page 239
RU6-2405-000CN	Spring, tension	Internal assemblies (6 of 6) on page 247
RU6-2436-000CN	Spring, tension	Internal assemblies (2 of 6) on page 239
RU6-2567-000CN	Spring, compression	Internal assemblies (1 of 6) on page 237
RU6-2568-000CN	Spring, compression	Internal assemblies (1 of 6) on page 237
RU7-2192-000CN	Spring, tension	Internal assemblies (1 of 6) on page 237
RU7-2193-000CN	Spring, compression	Internal assemblies (6 of 6) on page 247
VS1-7257-007CN	Drawer connector	Paper feeder main body on page 259
VS1-7258-007CN	Connector, drawer	Internal assemblies (6 of 6) on page 247
WC4-5171-000CN	Microswitch (SW3)	Internal assemblies (3 of 6) on page 241
WG8-5935-000CN	Photo interrupter (SR5)	Internal assemblies (6 of 6) on page 247
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