



# LASERJET PRO 200 COLOR

## Repair Manual



M251n



M251nw





# HP LaserJet Pro 200 color M251 Series Printer

Repair Manual

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## Conventions used in this guide

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 **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

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

## 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

 **WARNING!** Turn the product off, wait 5 seconds, and then remove the power cord 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 pre-folds 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.

 **NOTE:** To install a self-tapping screw, first turn it counterclockwise to align it with the existing 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.

 **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.

## 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

- #2 Phillips screwdriver with a magnetic tip and a 152 mm (6 in) shaft length
- Precision slotted screwdriver with a 1 mm (0.04 in) blade width



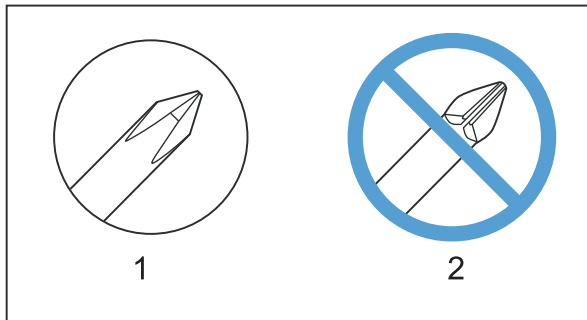
**NOTE:** This fine-point tool is required to release the front-door pins. The width of the blade must be 2 mm (0.08 in) or less to be able to push the door pins out of the mounting holes.

- Small slotted screwdriver
- Needle-nose pliers
- ESD mat (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

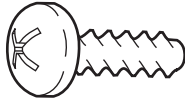
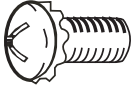


# Types of screws

**⚠ WARNING!** Make sure that components are replaced with the correct screw type. Using the incorrect screw (for example, substituting a long screw for the correct shorter screw) can cause damage to the product or interfere with product operation. Do not mix screws that are removed from one component with the screws that are removed from another component.

**📝 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 1-1 Common fasteners**

| Example                                                                             | Description                      | Size  | Part Number    |
|-------------------------------------------------------------------------------------|----------------------------------|-------|----------------|
|    | Screw, with washer               | M3X8  | XA9-1420-000CN |
|                                                                                     |                                  | M4X6  | XB2-7400-605CN |
|                                                                                     |                                  | M4X12 | XA9-1422-000CN |
|    | Screw, tapping, truss head       | M4X10 | XB4-7401-005CN |
|                                                                                     |                                  | M4X15 | XB4-7401-609CN |
|    | Screw, TP                        | M3X4  | XB6-7300-405CN |
|                                                                                     |                                  | M3X6  | XB6-7300-605CN |
|   | Screw, D                         | M3X6  | XA9-1670-000CN |
|                                                                                     |                                  | M3X8  | XA9-1671-000CN |
|  | Screw, machine                   | M3X4  | XB6-7300-409CN |
|                                                                                     | Screw, machine, flat head        | M3X4  | XA9-0679-000CN |
|                                                                                     | Screw, machine, flanged pan head | M3X6  | XB6-7300-805CN |



## Service approach

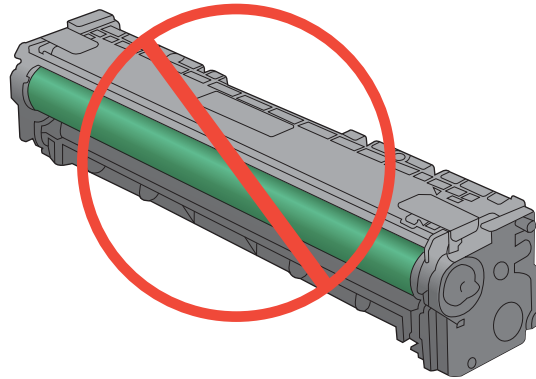
### Before performing service

- Remove all paper from the product.
- Turn off the power using the power switch.
- Unplug the power cable and the 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 cartridge.

**⚠ CAUTION:** Do not touch the imaging drum on the bottom of the toner cartridge. Finger prints on the imaging drum can cause print-quality problems.

Do not allow the image drum to contact any surface when the cartridge is set down. Protect the image drum at all times. Dust and debris can stick to the drum and cause print-quality problems.



---

## After performing service

- Plug in the power cable.
- Reinstall the toner cartridge.
- Load paper in the product.

## Post-service test

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

### 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 the 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. Clean the outside of the product with a damp cloth.

## Parts removal order

Use the following diagram to determine which parts must be removed before removing other parts.

**Figure 1-2** Parts-removal order

| <u>Component</u>                    | <u>Remove</u>          | <u>Remove</u> | <u>Remove</u> | <u>Remove</u> | <u>Remove</u> |
|-------------------------------------|------------------------|---------------|---------------|---------------|---------------|
| Print cartridges                    |                        |               |               |               |               |
| Pickup roller                       |                        |               |               |               |               |
| Separation roller                   |                        |               |               |               |               |
| Transfer roller                     |                        |               |               |               |               |
| Print-cartridge drawer              |                        |               |               |               |               |
| Right cover                         | Cassette assembly      |               |               |               |               |
| Left cover                          | Cassette assembly      |               |               |               |               |
| Rear-right cover                    | Right cover            |               |               |               |               |
| Rear-upper cover                    | Right cover            |               |               |               |               |
| Rear-door and rear-lower cover      | Right cover            |               |               |               |               |
| Upper-cover, LCD model              | Right cover            |               |               |               |               |
| Upper-cover, touchscreen model      | Right cover            |               |               |               |               |
| Upper-cover, touchscreen model      | Right cover            |               |               |               |               |
| LCD control-panel                   | Right cover            |               |               |               |               |
| Touchscreen control-panel           | Right cover            |               |               |               |               |
| USB cover (touchscreen CP model)    | Right cover            |               |               |               |               |
| Front-door and front-cover assembly | Print cartridge drawer |               |               |               |               |
| Paper-guide assembly                |                        |               |               |               |               |
| Driver PCA                          | Right cover            |               |               |               |               |
| DC controller PCA                   | Right cover            |               |               |               |               |
| Formatter PCA                       | Right cover            |               |               |               |               |
| Wireless PCA                        | Right cover            |               |               |               |               |
| Main motor                          | Right cover            |               |               |               |               |
| Intermediate transfer belt          | Print-cartridge drawer |               |               |               |               |
| High-voltage power supply           | Right cover            |               |               |               |               |
| Low-voltage power supply            | Right cover            |               |               |               |               |
| Fuser power supply                  | Right cover            |               |               |               |               |
| Fuser                               | Right cover            |               |               |               |               |
| Fan                                 | Right cover            |               |               |               |               |

# Removal and replacement procedures

## Rollers

### Pick roller

**CAUTION:** Do not touch the spongy roller surface unless you are going to replace the pick roller. Human skin oils that contact the pick roller can cause paper pickup problems.

1. Use the following procedures to rotate the pick roller into the position required to remove it.

#### LCD control panel (HP LaserJet Pro 200 color M251n Printer)

- Open the Secondary Service menu by pressing and releasing the Left arrow (◀) and then quickly pressing the **Cancel** button.
- Use the arrow buttons to select **Pick roller**, and then press the **OK** button.
- Press the **OK** button again to confirm that you want the pick roller to rotate.
- Remove the power cord, without turning off the power using the power switch, and then remove the interface cable.

**NOTE:** If the power to the product is turned off using the power switch, the pick roller will rotate to the parked position.

#### Touchscreen control panel (HP LaserJet Pro 200 color M251nw Printer)

- Touch the Setup  button.
- Touch the middle of the screen along the left edge (callout 1), and then immediately touch the lower-right corner (callout 2) of the screen.



- When the Home screen appears, touch the Setup  button again.
- Touch the **Secondary Service** button.
- Touch the arrow buttons (at the right or left side of the touchscreen) until the **Pick Roller** button appears.
- Touch the **Pick Roller** button.

- Touch the **OK** button to confirm that you want the pick roller to rotate.
- Remove the power cord, without turning off the power using the power switch, and then remove the interface cable.

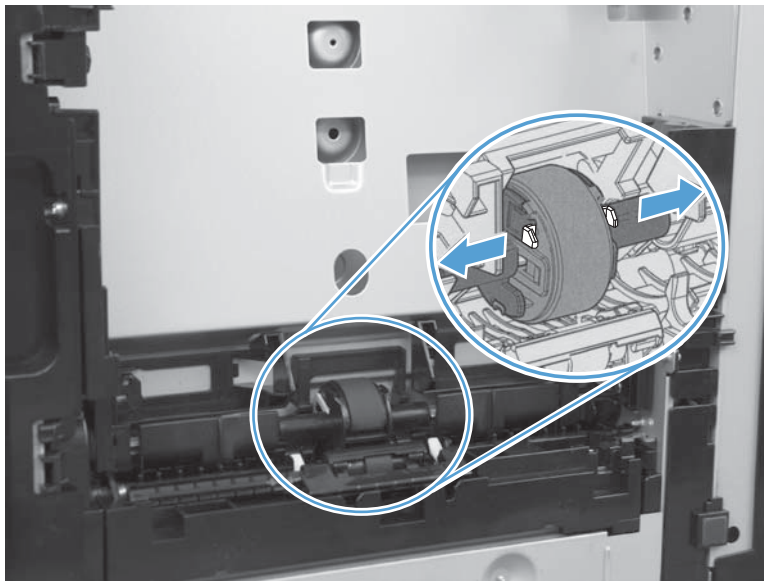
 **NOTE:** If the power to the product is turned off using the power switch, the pick roller will rotate to the parked position.

2. Remove the cassette assembly, and then carefully place the product front-side up.

 **NOTE:** Debris can scratch or damage the back of the product. Before you place the product front-side up, remove any debris from the work surface. If possible, set the product on a clean, dry cloth to prevent scratching and damage.

3. Release the two black plastic locking tabs and remove the pick roller.

**Figure 1-3** Remove the pickup roller



## Separation roller

**CAUTION:** Do not touch the spongy roller surface unless you are going to replace the roller. Human skin oils that contact the roller can cause paper pickup problems.

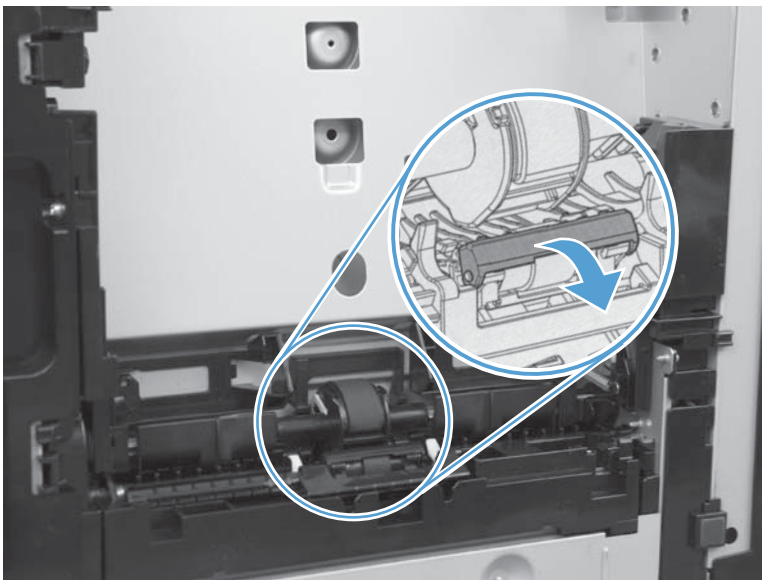
1. Remove cassette (if installed), and then carefully place the product front-side up.

**NOTE:** Debris can scratch or damage the back of the product. Before you place the product front-side up, remove any debris from the work surface. If possible, set the product on a clean, dry cloth to prevent scratching and damage.

2. Carefully release the roller cover and rotate it down and away from the roller.

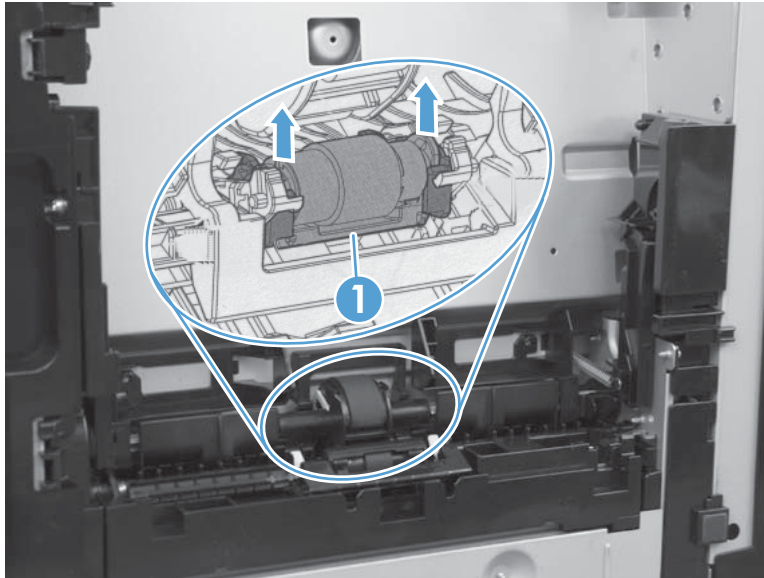
**Reinstallation tip** Make sure that this cover snaps into place over the roller when the roller and holder are reinstalled.

**Figure 1-4** Remove the separation roller (1 of 2)



3. Use a small flat blade screwdriver to gently pry up on the roller and holder assembly (callout 1) to remove the roller and holder assembly.

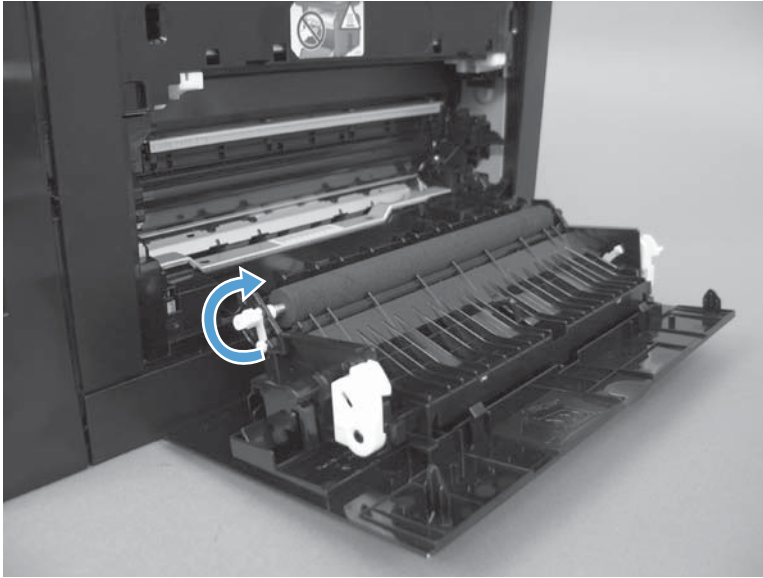
**Figure 1-5** Remove the separation roller (2 of 2)



## Transfer roller

1. Open the rear door.
2. Release the retainer clip and then rotate it until the pin on the clip aligns with the slot in the mounting bracket.

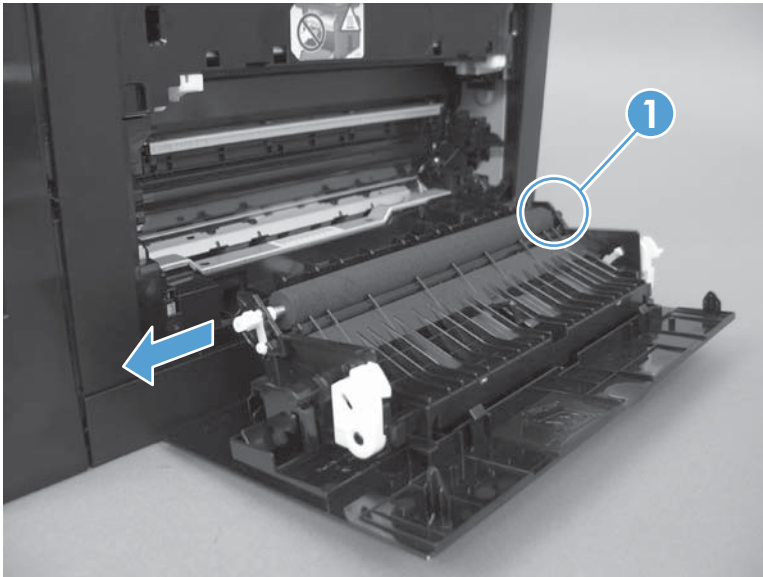
**Figure 1-6** Remove the transfer roller (1 of 3)



3. Remove the clip. Repeat these steps for the remaining retainer clip (located at the opposite end of the roller shaft).

 **TIP:** One of the clips (callout 1) is made from a black conductive plastic. Make sure that the clips are reinstalled on the correct end of the transfer roller.

**Figure 1-7** Remove the transfer roller (2 of 3)



4. Slide the roller to one side to disengage the roller shaft from the mounting bracket, and then remove the transfer roller.

**⚠ CAUTION:** Do not touch the black sponge portion of the roller. Human skin oils that contact the roller can cause print-quality problems.

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**Figure 1-8** Remove the transfer roller (3 of 3)



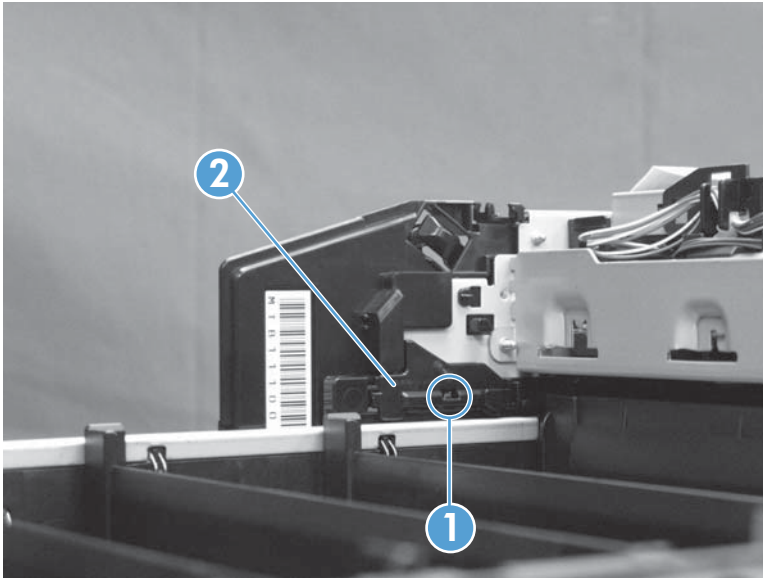
## Toner-cartridge drawer

1. Open the front door and pull out the toner-cartridge drawer.

 **TIP:** This step is easier to perform, but not required, with the upper cover removed.

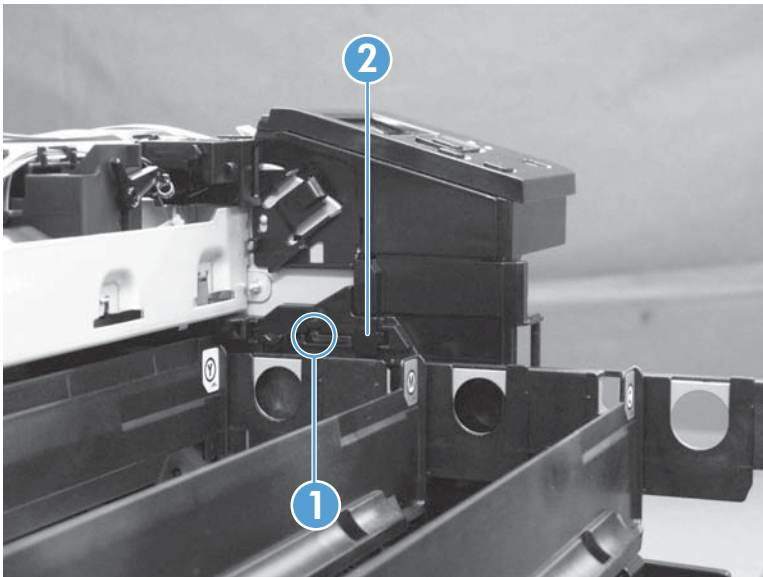
2. Release one tab (callout 1) with a flat blade screwdriver and remove the left cartridge-drawer stop (callout 2).

**Figure 1-9** Remove the toner-cartridge drawer (1 of 2)



3. Release one tab (callout 1) with a flat blade screwdriver and remove the right cartridge-drawer stop (callout 2).

**Figure 1-10** Remove the toner-cartridge drawer (2 of 2)



4. Remove the toner-cartridge drawer.

## Covers

### Right cover

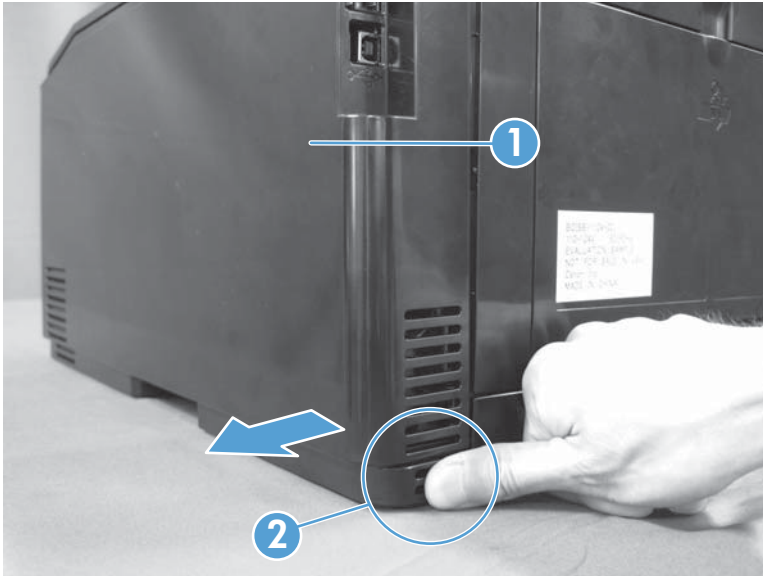
1. Remove cassette assembly.
2. Open the front door.
3. Remove one screw (callout 1) and release two tabs (callout 2) using a flat blade screwdriver.

**Figure 1-11** Remove the right cover (1 of 4)

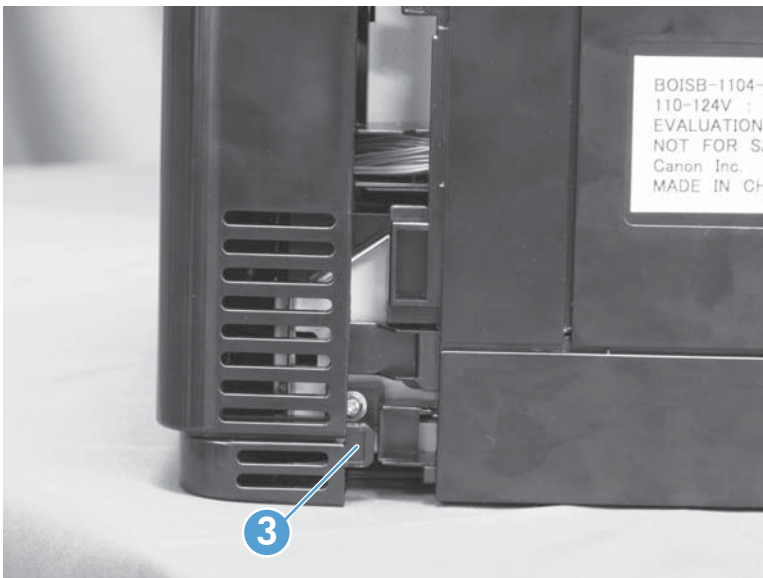


4. Push the right cover (callout 1) from the rear side (callout 2) and slide it away from the product to release one tab (callout 3).

**Figure 1-12** Remove the right cover (2 of 4)

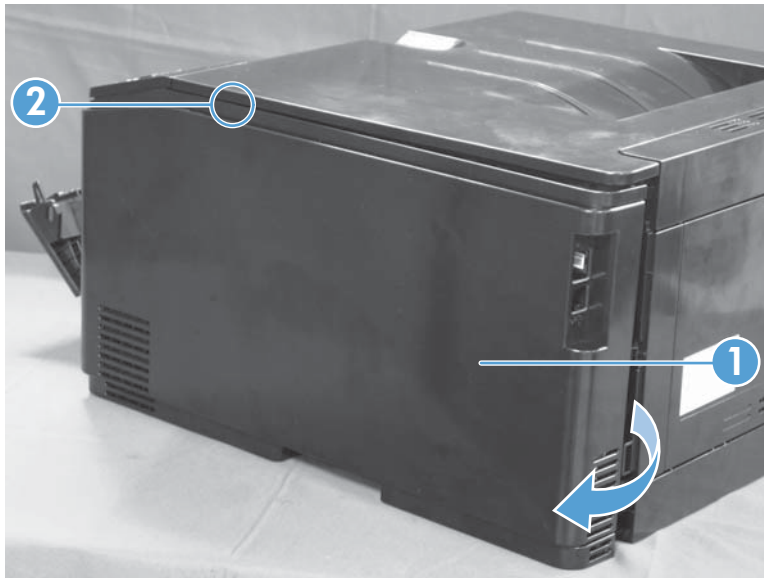


**Figure 1-13** Remove the right cover (3 of 4)



5. Push the right cover (callout 1) downward and release one tab (callout 2). Rotate the right cover away from the product and remove it.

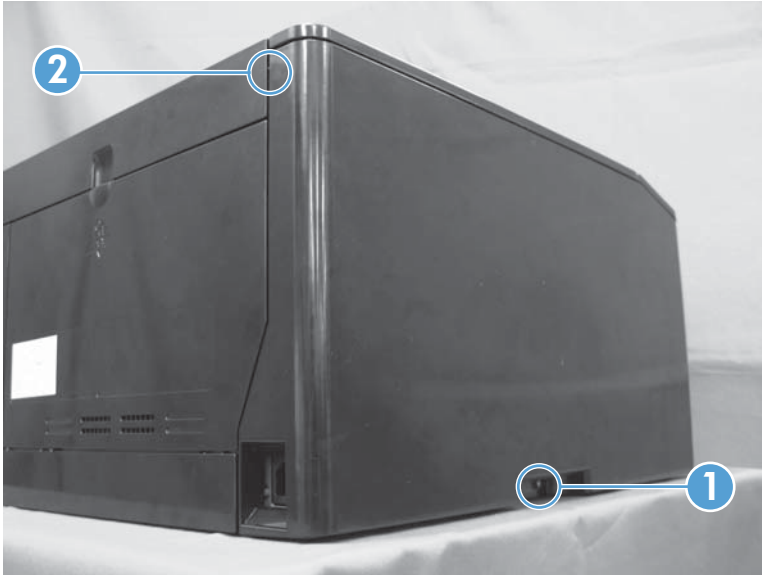
**Figure 1-14** Remove the right cover (4 of 4)



## Left cover

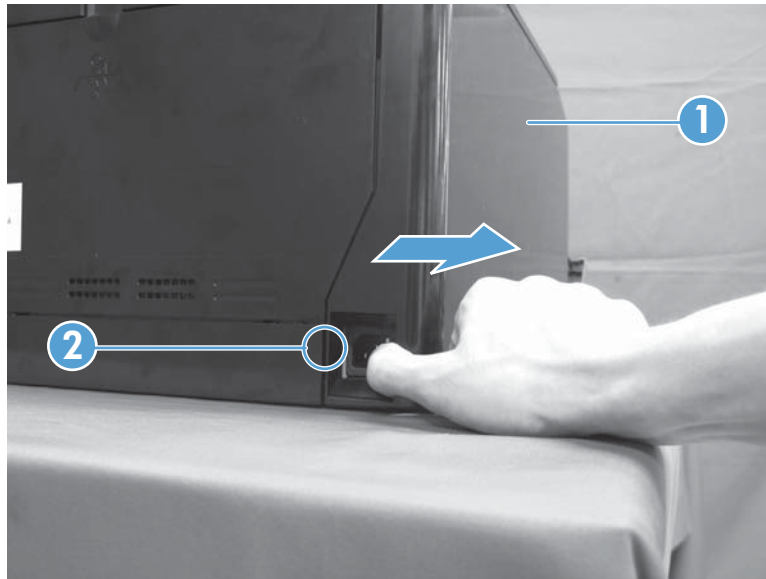
1. Remove the cassette assembly.
2. Open the front door.
3. Remove one screw (callout 1) and release one tab (callout 2) with a flat blade screwdriver.

**Figure 1-15** Remove the left cover (1 of 4)

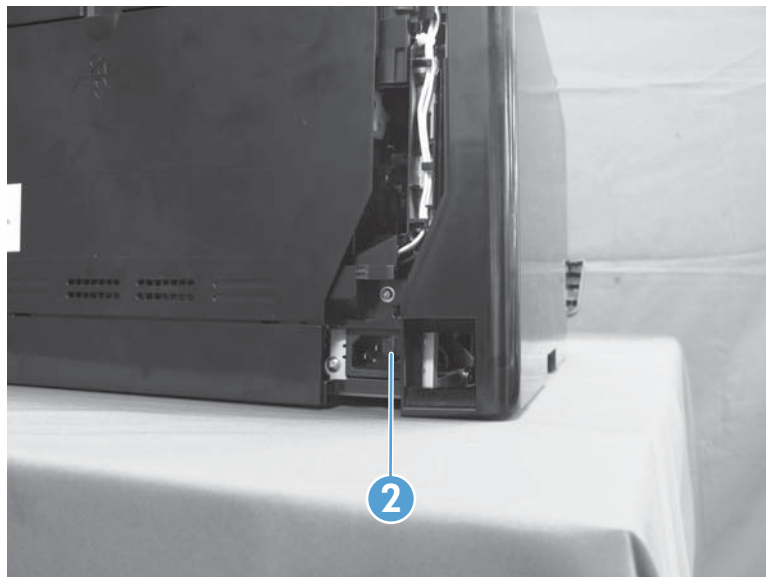


4. Slide the left cover (callout 1) away from the product and release one tab (callout 2).

**Figure 1-16** Remove the left cover (2 of 4)

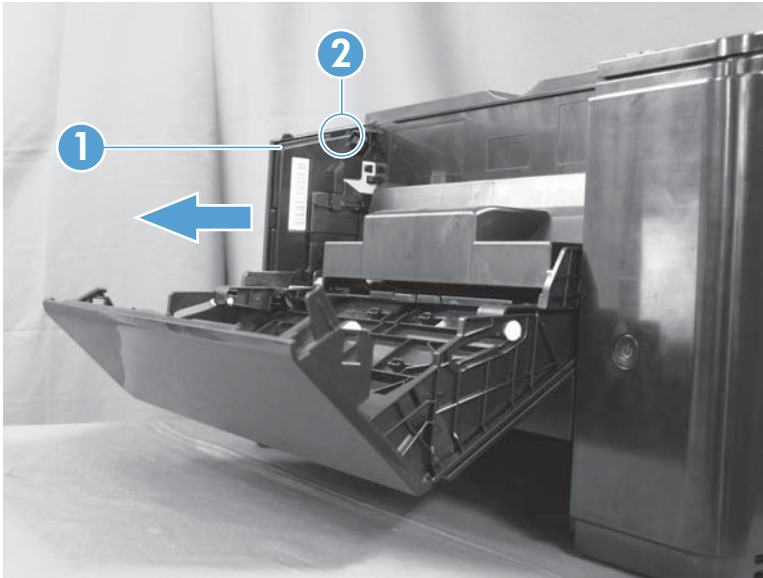


**Figure 1-17** Remove the left cover (3 of 4)



5. Hold up the left cover (callout 1) and release one tab (callout 2). Slide the left cover away from the product and remove it.

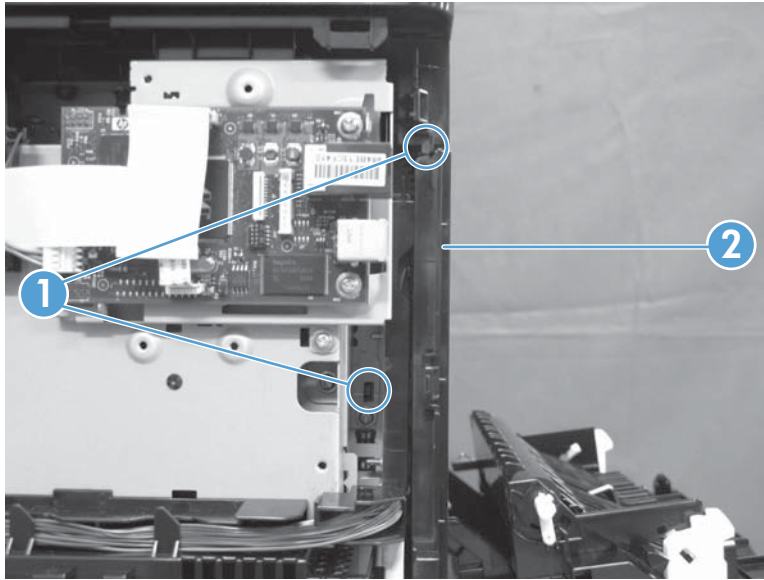
**Figure 1-18** Remove the left cover (4 of 4)



## Rear right cover

1. Remove the right cover. See [Right cover on page 15](#).
2. Open the rear door.
3. Release two tabs (callout 1) with a precision flat blade screwdriver and remove the rear right cover (callout 2).

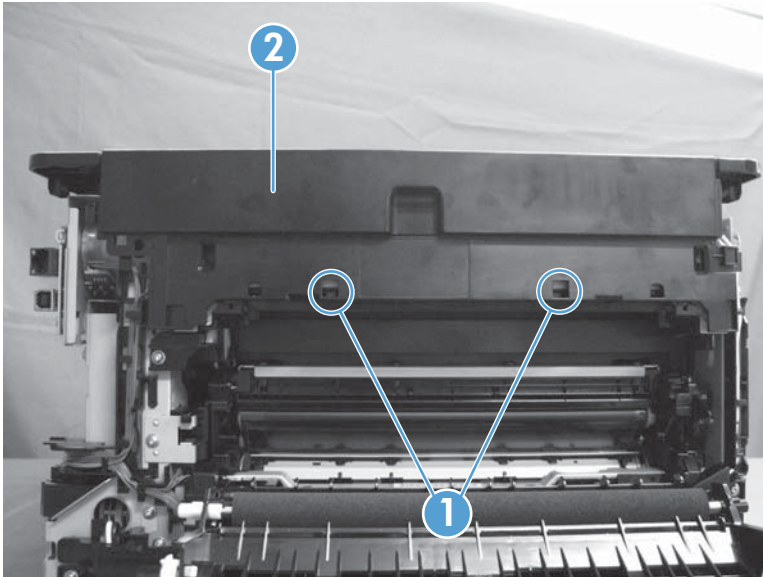
**Figure 1-19** Remove the rear right cover



## Rear upper cover

1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
2. Open the rear door.
3. Use a small flat blade screwdriver to release two tabs (callout 1).

**Figure 1-20** Remove the rear upper cover

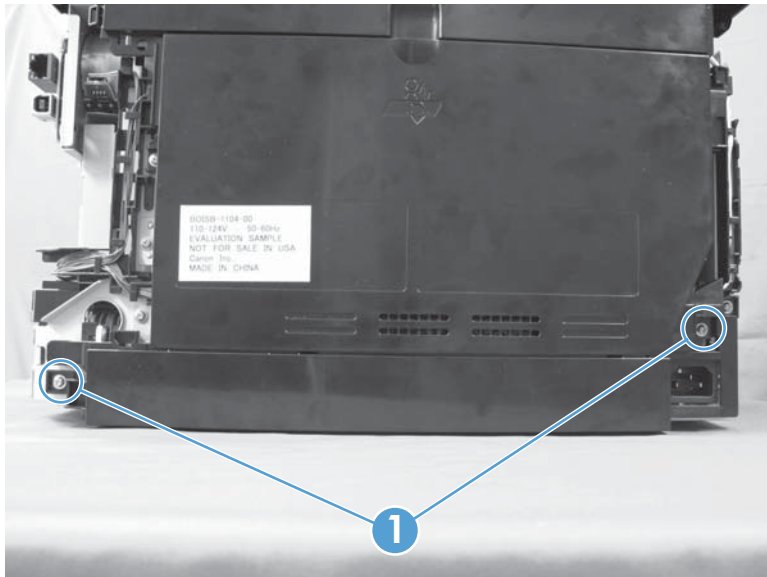


4. Pull the rear upper cover (callout 2) away from the product to remove.

## Rear door and rear lower cover

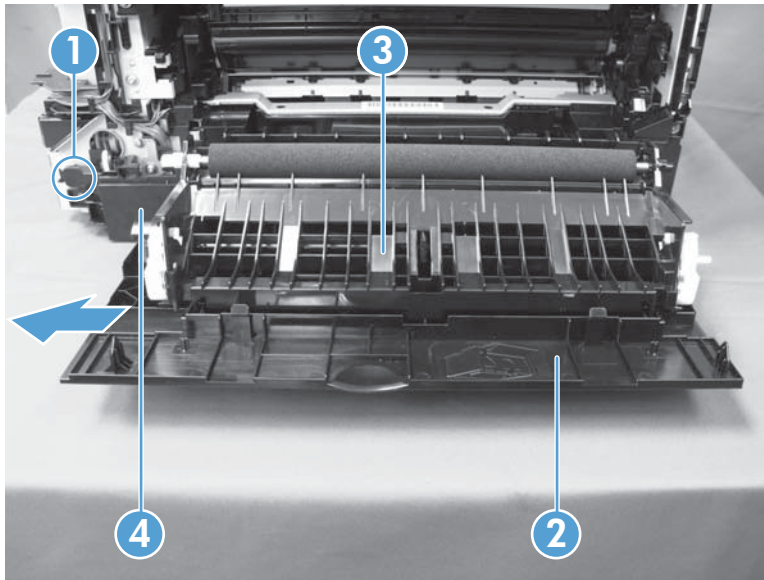
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
2. Remove two screws (callout 1) and open the rear door.

**Figure 1-21** Remove the rear door and rear lower cover (1 of 5)



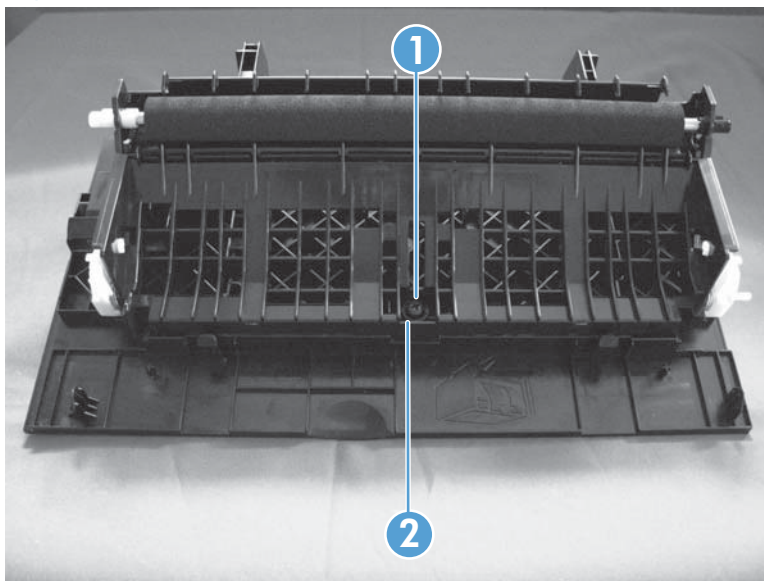
3. Release one locator pin (callout 1) and slide the rear door (callout 2), transfer roller assembly (callout 3) and rear bottom cover (callout 4) together to remove them. Remove the rear bottom cover from the rear door.

**Figure 1-22** Remove the rear door and rear lower cover (2 of 5)



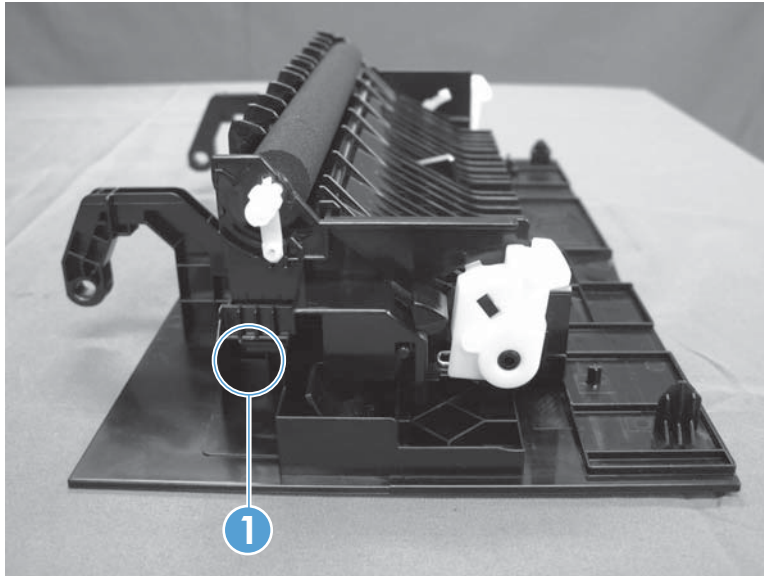
4. Remove one screw (callout 1) and the cap (callout 2).

**Figure 1-23** Remove the rear door and rear lower cover (3 of 5)

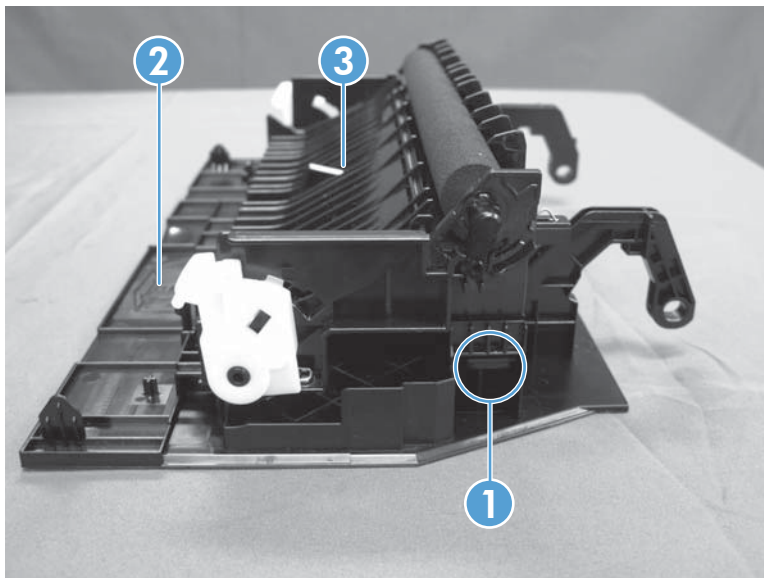


5. Release two tabs (callout 1) and remove the transfer roller assembly (callout 3) from the rear door (callout 2).

**Figure 1-24** Remove the rear door and rear lower cover (4 of 5)



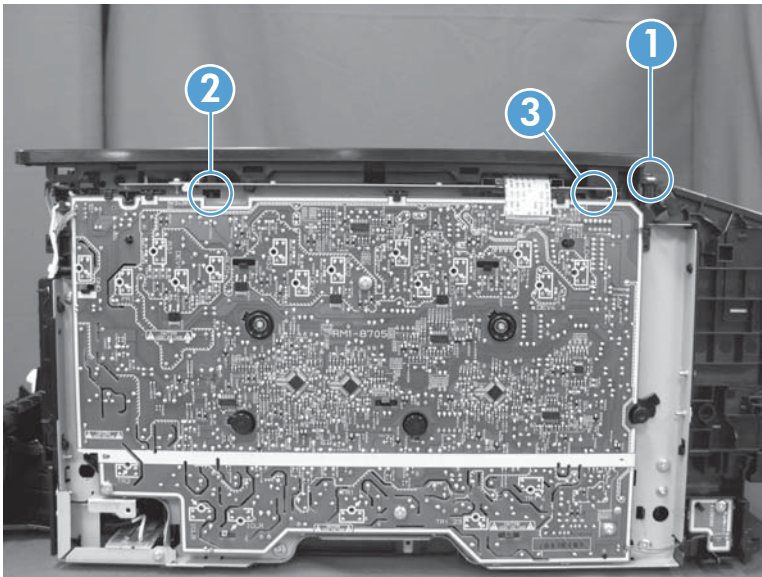
**Figure 1-25** Remove the rear door and rear lower cover (5 of 5)



## Upper cover, LCD control panel products (HP LaserJet Pro 200 color M251n Printer)

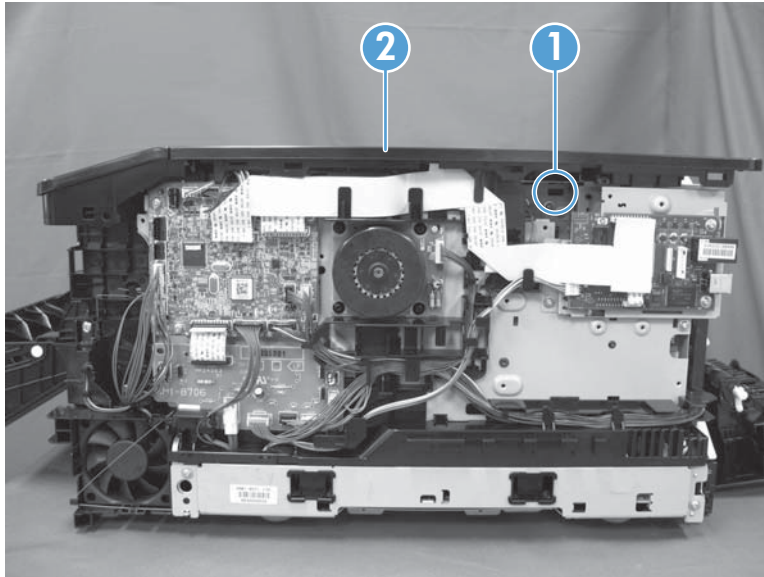
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear upper cover. See [Rear upper cover on page 22](#).
2. Partially open the front door.
3. Remove one screw (callout 1), release one tab (callout 2), and release one peg (callout 3).

**Figure 1-26** Remove the upper cover (1 of 2)



4. Release one tab (callout 1) and remove the upper cover assembly (callout 2).

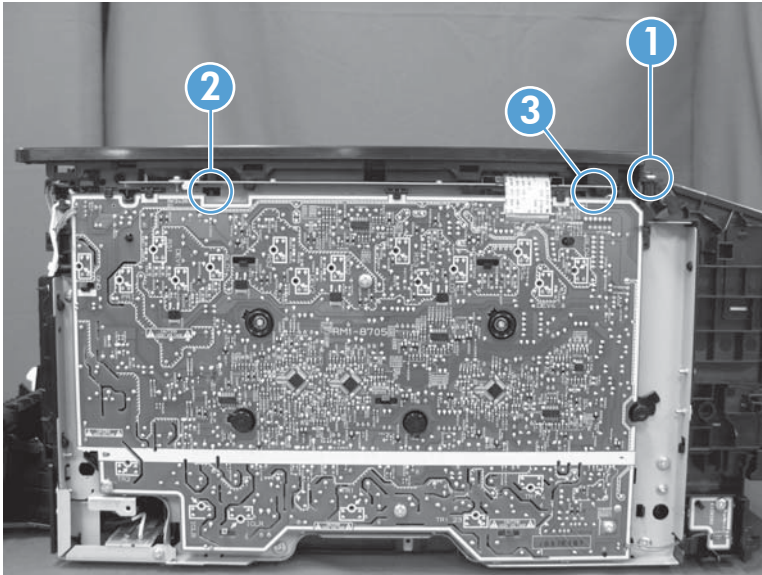
**Figure 1-27** Remove the upper cover (2 of 2)



## Upper cover, touchscreen control panel products (HP LaserJet Pro 200 color M251nw Printer)

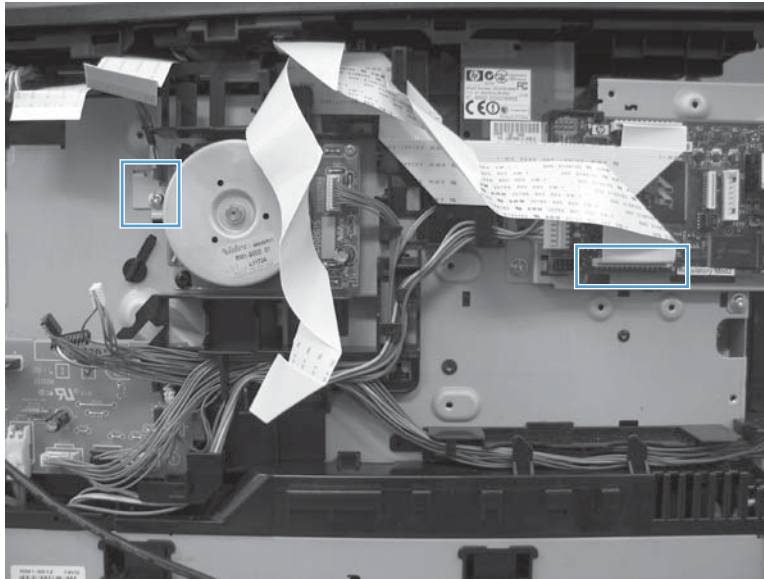
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear upper cover. See [Rear upper cover on page 22](#).
2. Partially open the front door.
3. Remove one screw (callout 1), release one tab (callout 2), and release one peg (callout 3).

**Figure 1-28** Remove the upper cover (1 of 5)



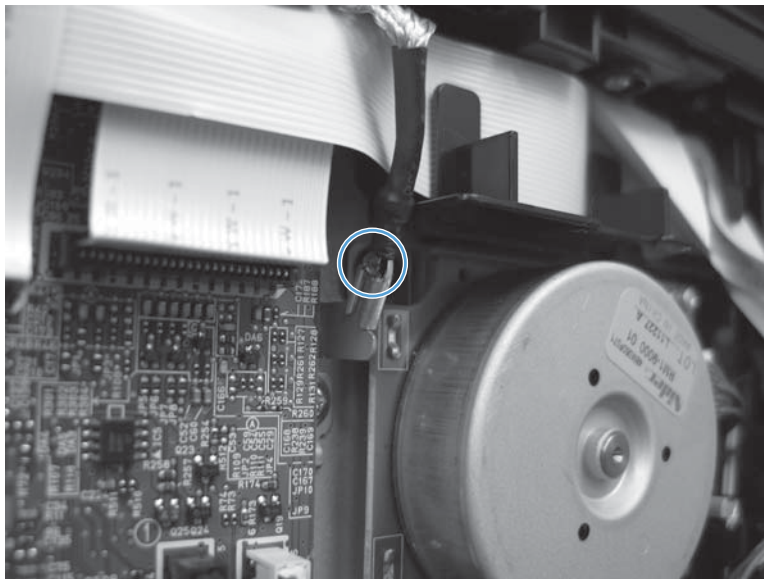
4. Disconnect one FFC on the formatter PCA and remove the grounding strap.

**Figure 1-29** Remove the upper cover (2 of 5)



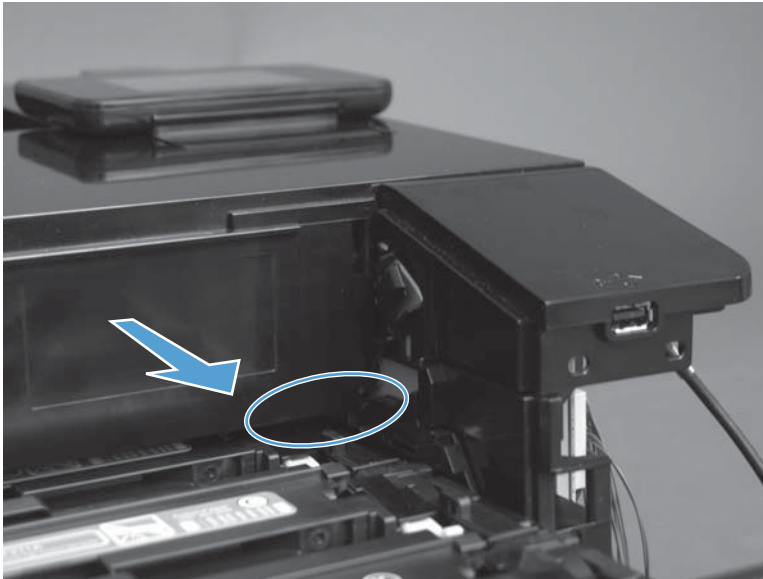
5. Depress the spring latch on the grounding strap to disconnect the grounding strap from the chassis.

**Figure 1-30** Remove the upper cover (3 of 5)



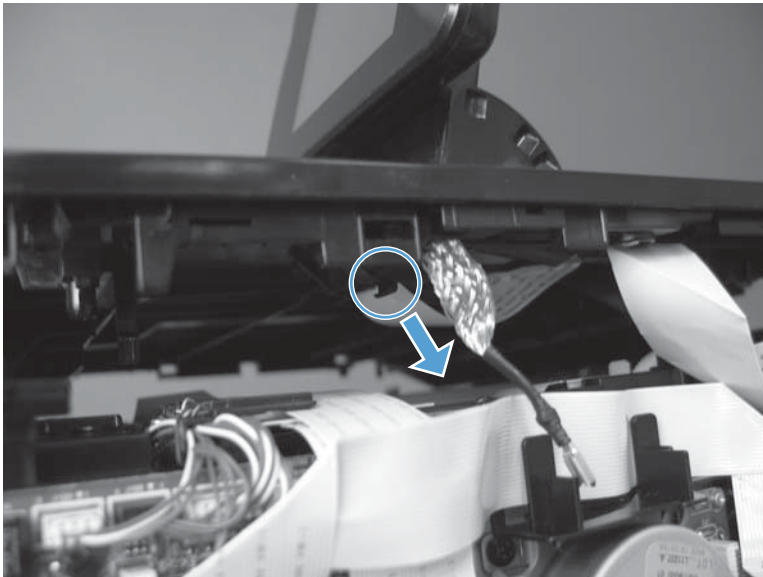
6. Release one tab on the front left of the upper cover.

**Figure 1-31** Remove the upper cover (4 of 5)



7. Release one tab beneath the control-panel arm and remove the upper cover.

**Figure 1-32** Remove the upper cover (5 of 5)

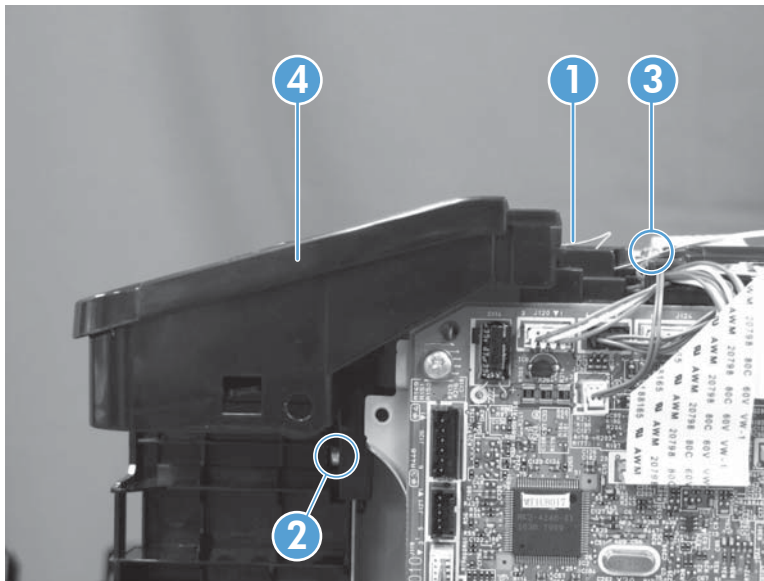


## LCD control-panel assembly (HP LaserJet Pro 200 color M251n Printer)

**⚠ CAUTION:** Do not bend or fold the flat flexible cables (FFCs) during removal or installation. Do not straighten pre-folds in the FFCs. You *must* make sure that all FFCs are fully seated in their connectors. Failure to fully seat an FFC into a connector can cause a short circuit in a PCA.

1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear upper cover. See [Rear upper cover on page 22](#).
  - Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#).
2. Open the front door.
3. Disconnect one FFC (callout 1), remove one 3x8 screw (callout 2) and one 3x12 screw (callout 3). Remove the control-panel assembly (callout 4).

**Figure 1-33** Remove the control-panel assembly



**💡 TIP:** The control-panel mounting screw (callout 3) is a self-tapping screw. When reinstalling the control-panel module, ensure that you replace this screw in the correct position in the product.

## Touchscreen control-panel assembly (HP LaserJet Pro 200 color M251nw Printer)

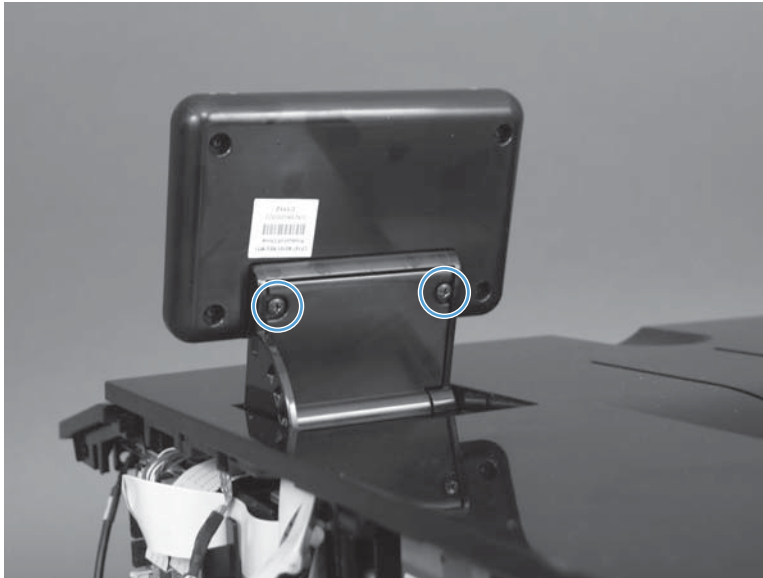
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear upper cover. See [Rear upper cover on page 22](#).
  - Upper cover. See [Upper cover, touchscreen control panel products \(HP LaserJet Pro 200 color M251nw Printer\) on page 28](#).
2. Place the upper cover assembly upside down on a flat surface. Carefully separate the adhesive-backed section of the control-panel FFC from the upper cover and remove the FFC from the bracket.

**Figure 1-34** Remove the touchscreen control-panel (1 of 2)



3. Remove two screws. Separate the control-panel assembly from the upper cover and carefully feed the control-panel FFC through the opening in the upper cover.

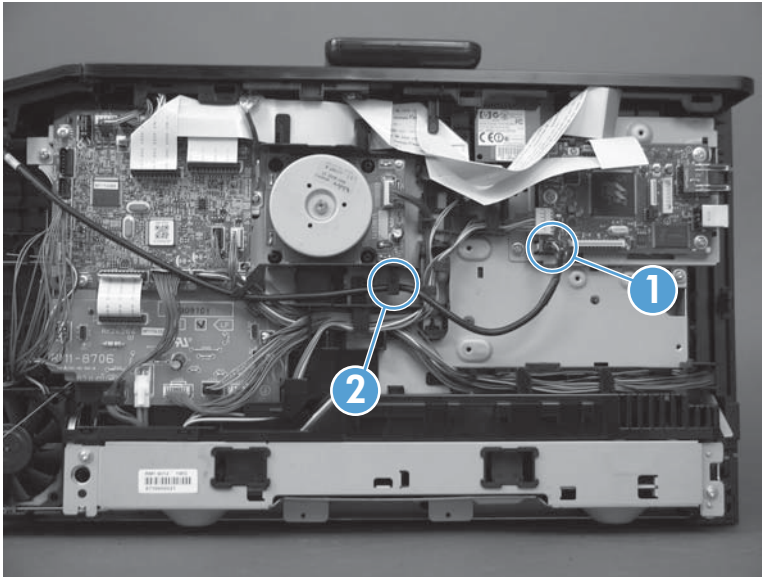
**Figure 1-35** Remove the touchscreen control-panel (2 of 2)



## USB cover (touchscreen control-panel models)

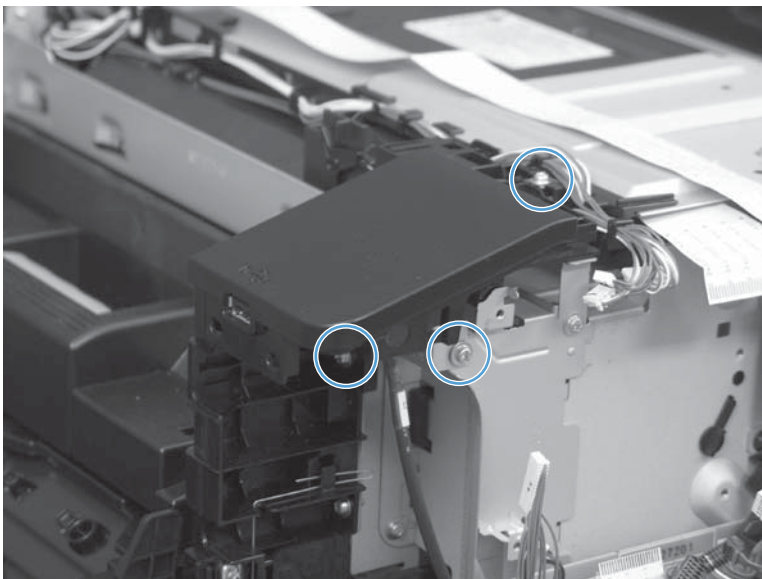
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#).
2. Disconnect one wire-harness (callout 1) from the formatter PCA and remove the wire-harness from the retainer (callout 2).

**Figure 1-36** Remove the USB cover (1 of 2)



3. Remove three screws and remove the USB cover.

**Figure 1-37** Remove the USB cover (2 of 2)

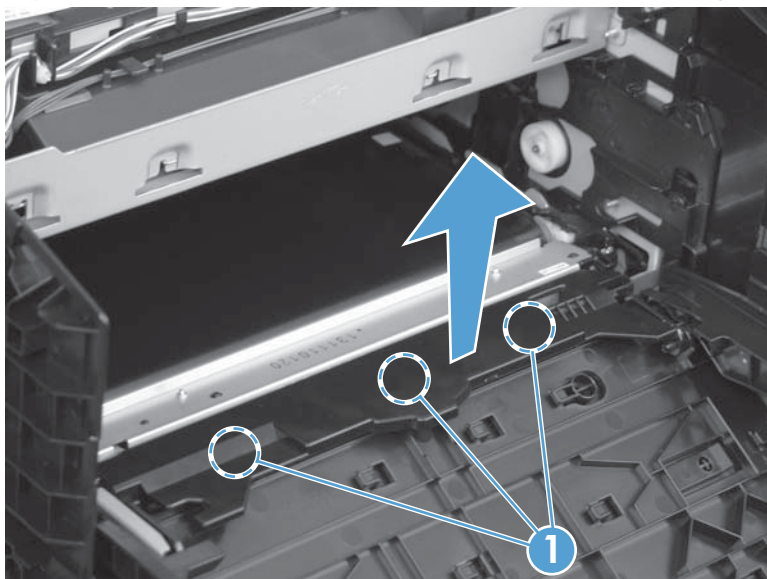


## Front-door and front-cover assembly

The front cover assembly is located below the front door.

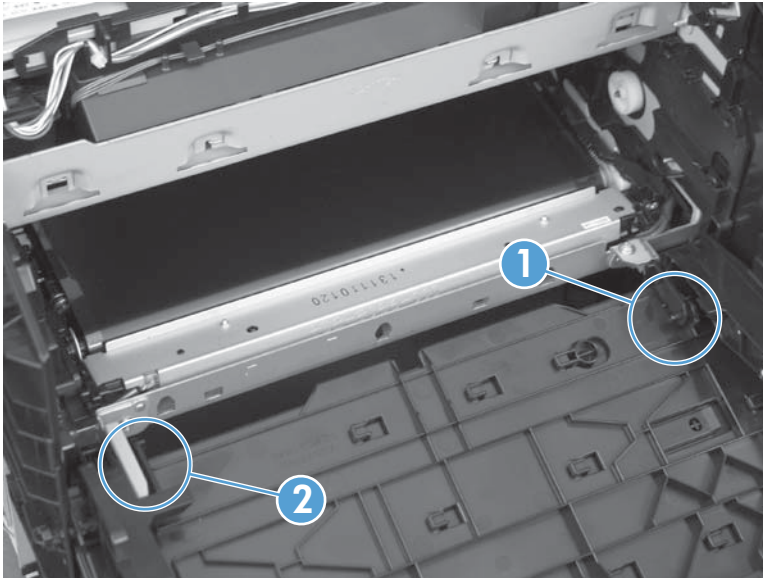
1. Remove the following components:
  - Toner-cartridge drawer. See [Toner-cartridge drawer on page 14](#).
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear-upper cover. See [Rear upper cover on page 22](#).
  - Rear door and rear lower cover. See [Rear door and rear lower cover on page 23](#).
  - Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#) or [Upper cover, touchscreen control panel products \(HP LaserJet Pro 200 color M251nw Printer\) on page 28](#).
2. Open the front cover assembly.
3. Release three tabs (callout 1) and remove the cartridge tray bottom cover.

**Figure 1-38** Remove the front-door and front-cover assembly (1 of 6)



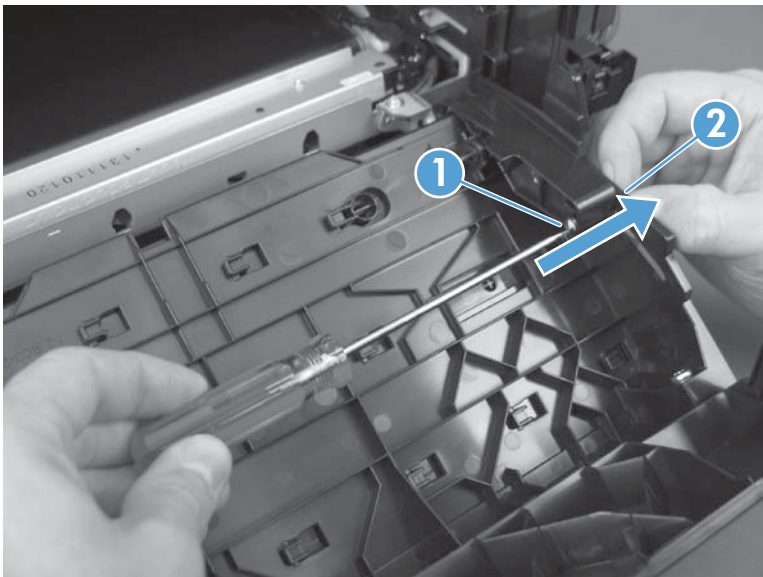
4. Release one peg (callout 1) on the right side of the front cover assembly. Close the front door assembly slightly and release one peg (callout 2) on the left side of the front cover assembly. Then remove the front cover assembly.

**Figure 1-39** Remove the front-door and front-cover assembly (2 of 6)



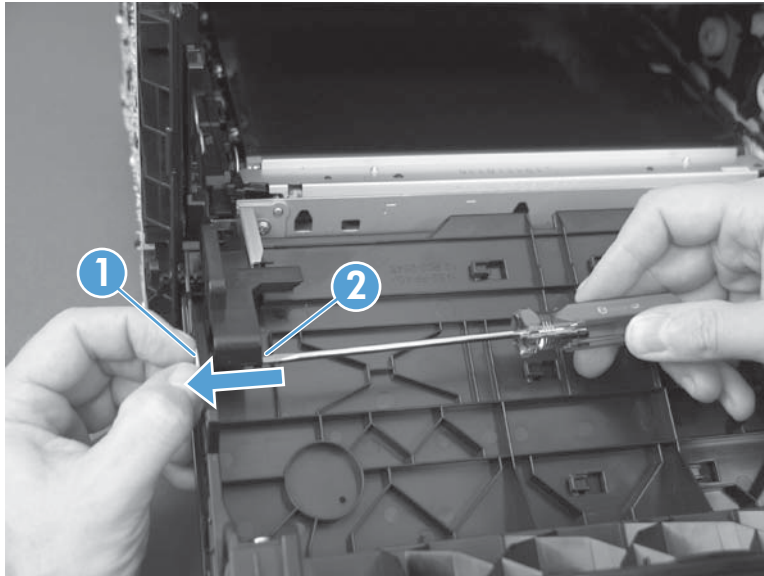
5. Hold up the tab (callout 2) with a precision flat blade screwdriver and then pull out the shaft (callout 1) on the left side of the front door assembly.

**Figure 1-40** Remove the front-door and front-cover assembly (3 of 6)



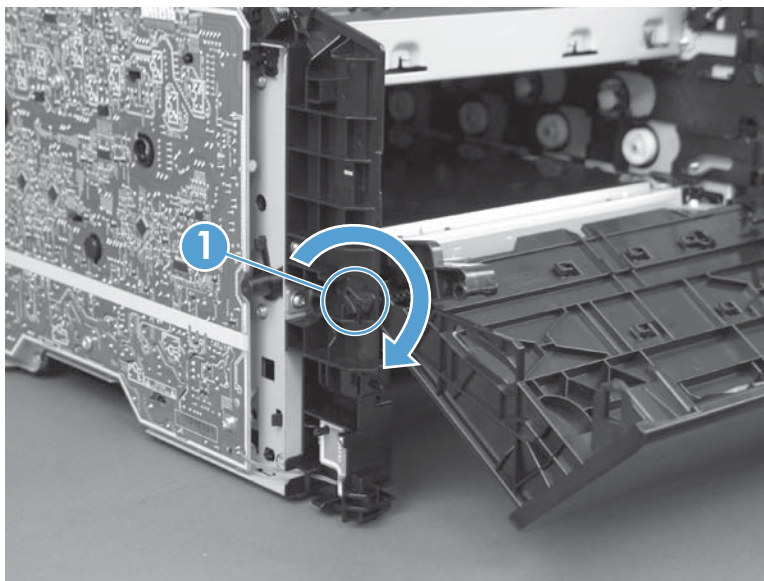
6. Hold up the tab (callout 1) with a precision flat blade screwdriver, and then pull out the shaft (callout 2) on the right side of the front door assembly.

**Figure 1-41** Remove the front-door and front-cover assembly (4 of 6)



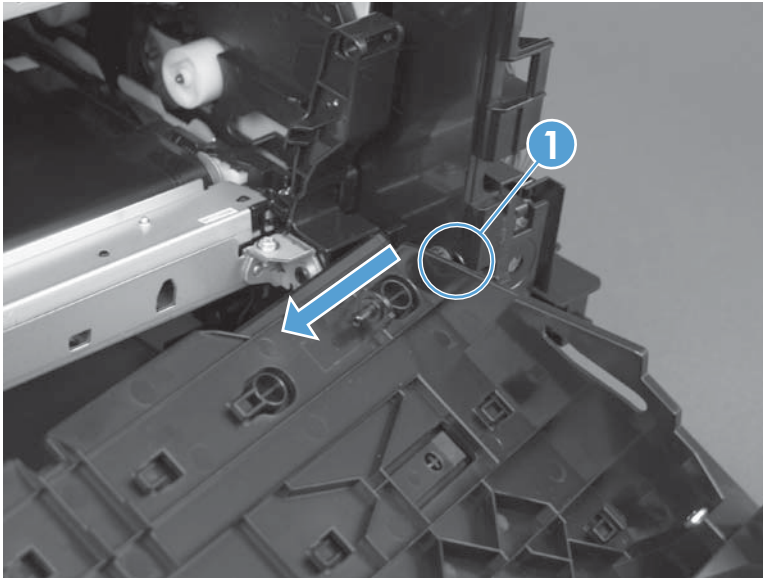
7. Release one tab (callout 1) of the support shaft on the left side of the front door assembly and pull out the support shaft by turning it clockwise.

**Figure 1-42** Remove the front-door and front-cover assembly (5 of 6)



8. Release one peg (callout 1) on the right side of the front door assembly. Slide the front door assembly to the left and remove it.

**Figure 1-43** Remove the front-door and front-cover assembly (6 of 6)



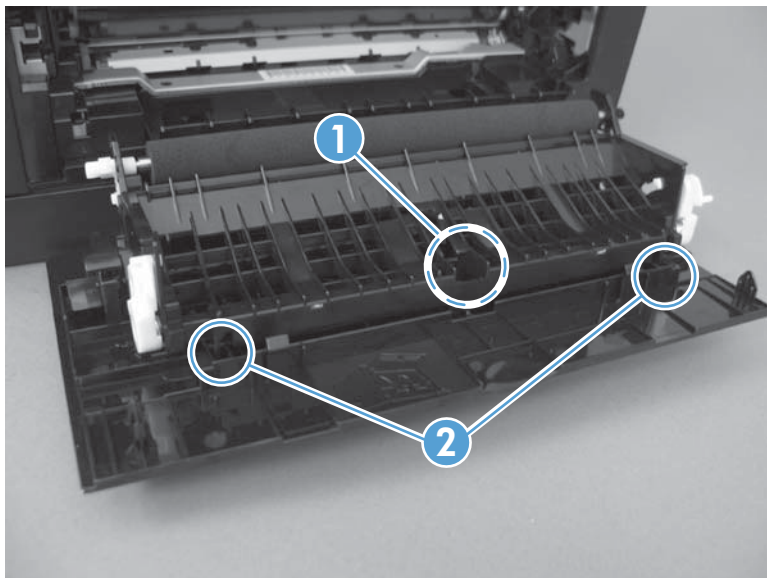
## Main assemblies

 **NOTE:** The laser scanner installed in this product is not replaceable.

### Paper-guide assembly

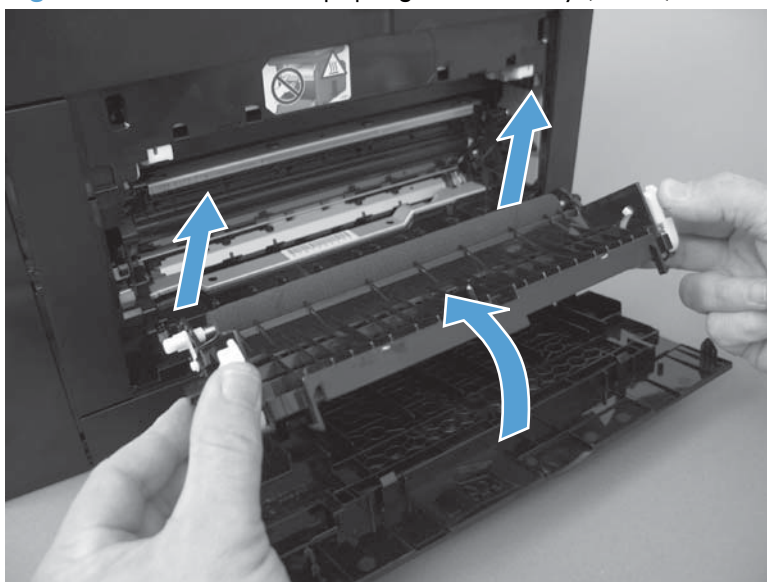
1. Open the rear door.
2. Release one captive screw (callout 1) and release two tabs (callout 2).

**Figure 1-44** Remove the paper-guide assembly (1 of 2)



3. Rotate the assembly up and away from the rear door to release it, and then remove the paper-guide assembly.

**Figure 1-45** Remove the paper-guide assembly (2 of 2)

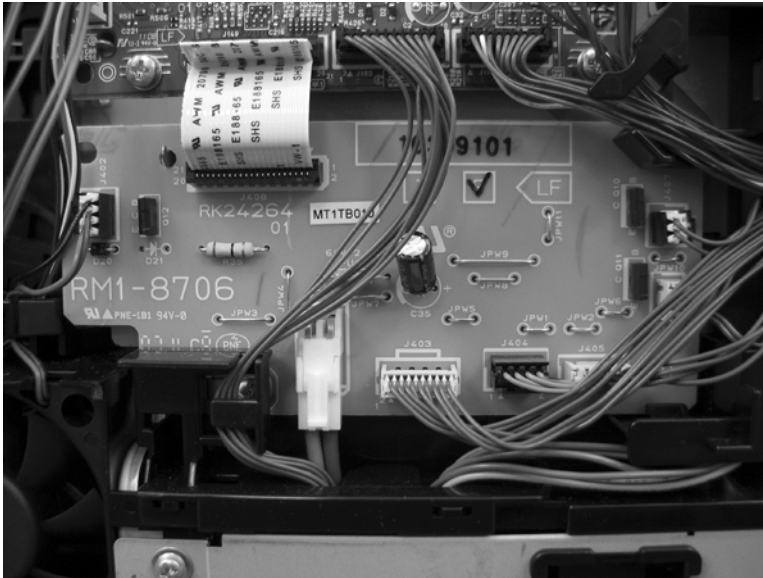


## Driver PCA

### Remove the driver PCA

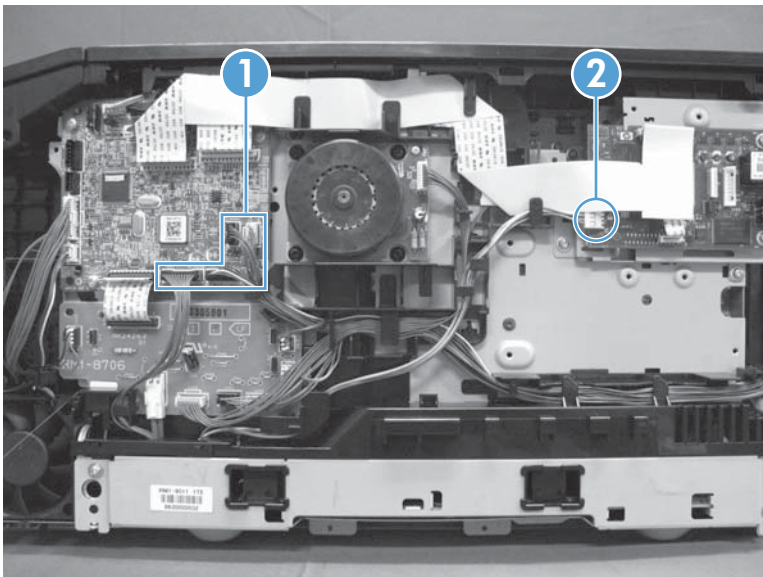
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
2. Disconnect the power lead, six wire-harnesses, and one FFC from the driver PCA.

**Figure 1-46** Remove the driver PCA (1 of 8)



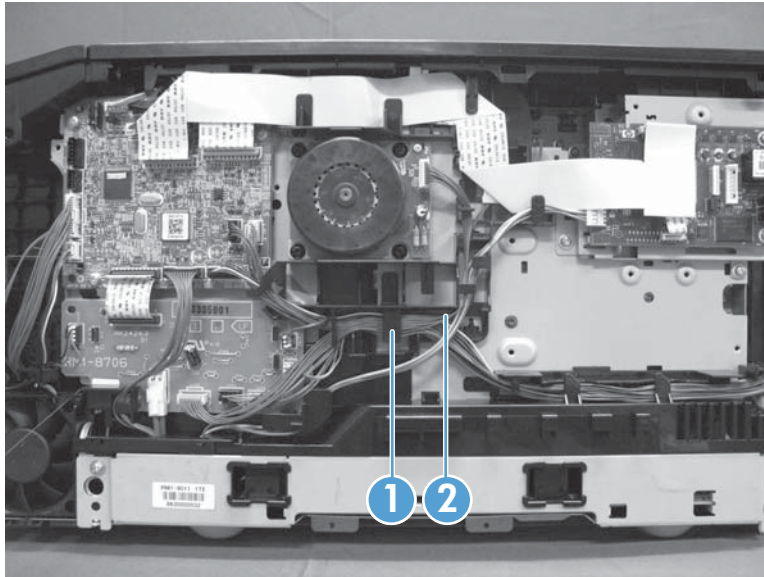
3. Disconnect four connectors (callout 1) on the DC controller assembly and one connector (callout 2) on the formatter PCA.

**Figure 1-47** Remove the driver PCA (2 of 8)



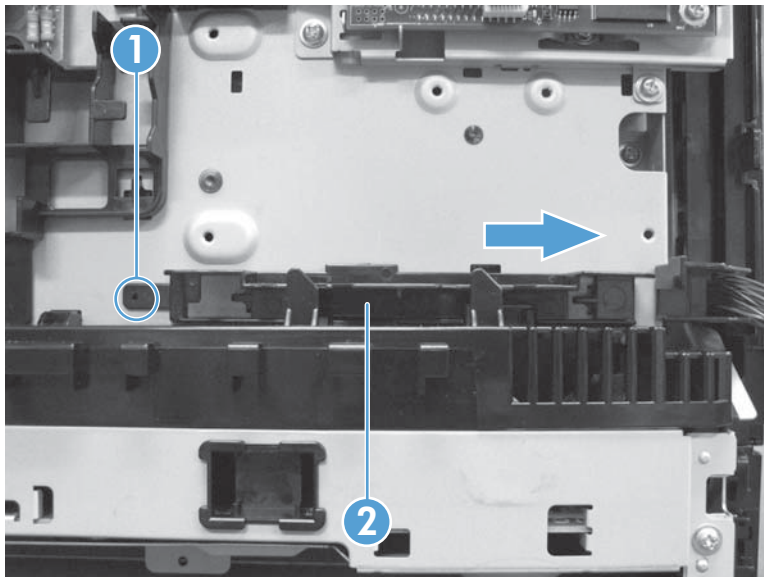
4. Release the cables (callout 1) from the cable guide (callout 2).

**Figure 1-48** Remove the driver PCA (3 of 8)



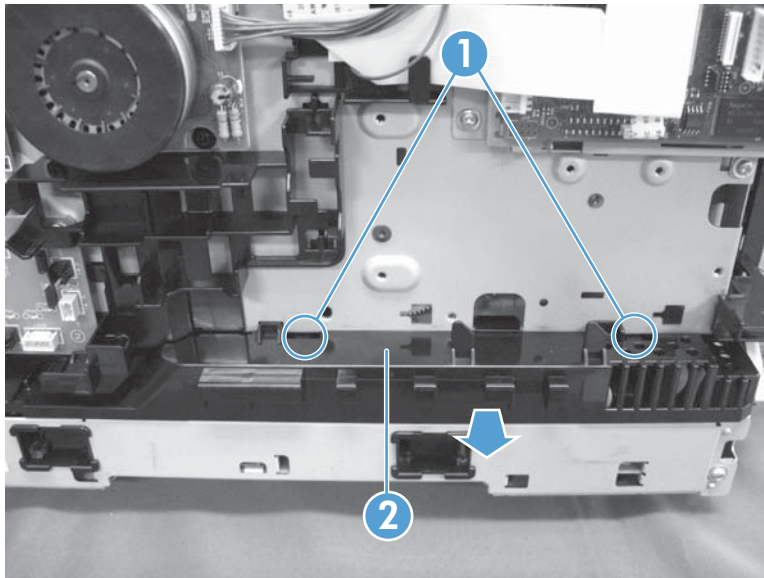
5. Release one tab (callout 1) and slide the cable guide (callout 2) toward the back of the product to remove.

**Figure 1-49** Remove the driver PCA (4 of 8)



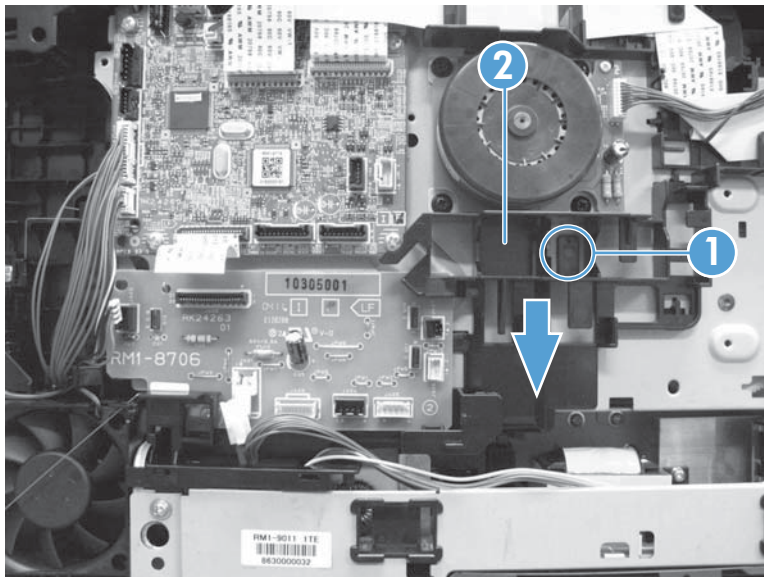
6. Release two tabs (callout 1) and slide the cable guide (callout 2) away from the product to remove.

**Figure 1-50** Remove the driver PCA (5 of 8)



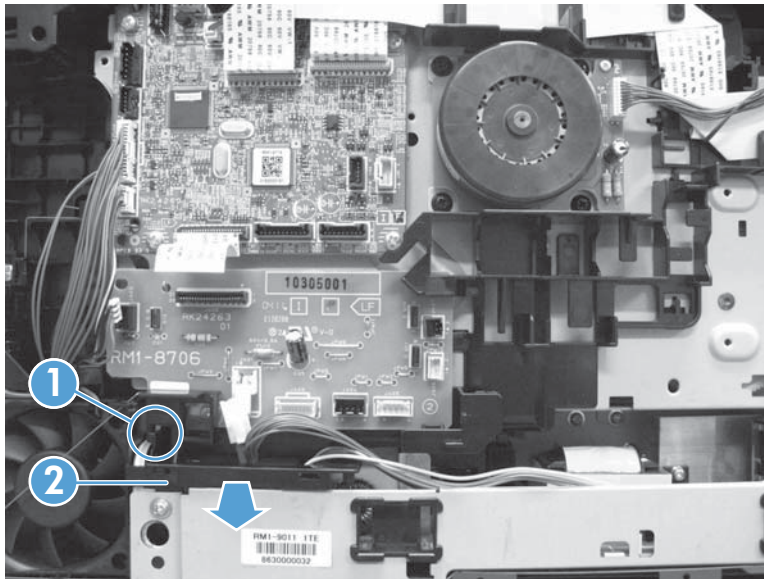
7. Release one tab (callout 1) and slide the cable guide (callout 2) downward to remove.

**Figure 1-51** Remove the driver PCA (6 of 8)



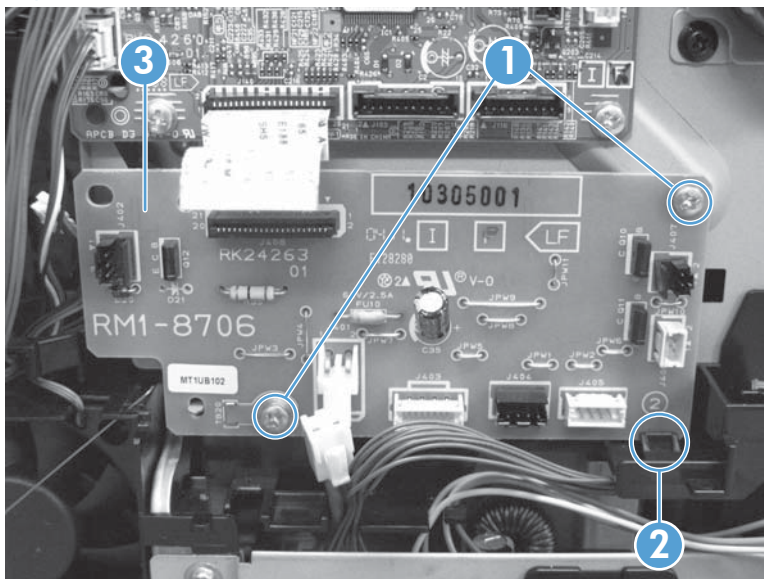
8. Release one tab (callout 1) and slide the cable guide (callout 2) away from the product to remove.

**Figure 1-52** Remove the driver PCA (7 of 8)



9. Remove two screws (callout 1). Release one tab (callout 2) and remove the driver PCA (callout 3).

**Figure 1-53** Remove the driver PCA (8 of 8)



## DC controller PCA

### Special consideration

 **WARNING!** Do not install a *replacement* formatter PCA and DC controller PCA at the same time, and then turn the product power on.

The formatter PCA and the DC controller PCA store important product configuration information (NVRAM data) that will be lost if both PCAs are replaced at the same time. When the product power is turned on, the formatter will restore the NVRAM data to a replacement DC controller.

Replacing both the DC controller and the formatter at the same time will result in severe print-quality problems.

### Replacing the DC controller PCA before the formatter PCA

Use the following procedure if you need to install a replacement DC controller *and* a replacement formatter PCA.

 **NOTE:** If you are only installing a replacement DC controller PCA, proceed to [DC controller PCA on page 44](#).

1. Install a replacement DC controller PCA.
2. Turn the product power on, and wait for the print-cartridge volume indicators to appear on the control-panel display.

 **NOTE:** This allows important product information to be written to the replacement DC controller PCA.

3. Turn the product power off.
4. Install a replacement formatter PCA. See [Formatter PCA on page 47](#).
5. Turn the product power on.

## Remove the DC controller PCA

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

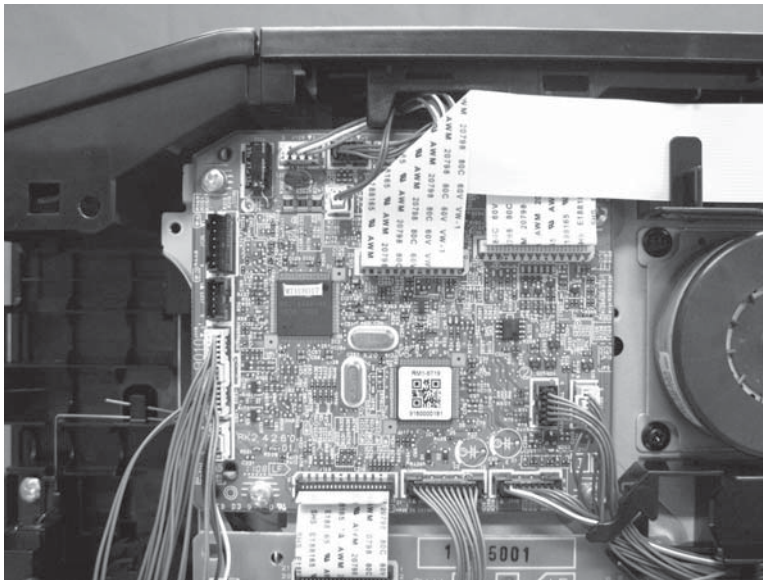
**ESD** Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing product parts. Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, ground yourself by touching the sheet-metal chassis *before* touching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

1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#) or [Upper cover, touchscreen control panel products \(HP LaserJet Pro 200 color M251nw Printer\) on page 28](#).
2. Disconnect all of the FFCs and wire-harness connectors from the DC controller PCA.

- FFCs: J107, J108, J115, J140
- wire-harness connectors
  - J103, J104, J105, J109, J116, J119, J120, J124, J126, J127, J130, and J131.

**NOTE:** J126 and J127 are not used.

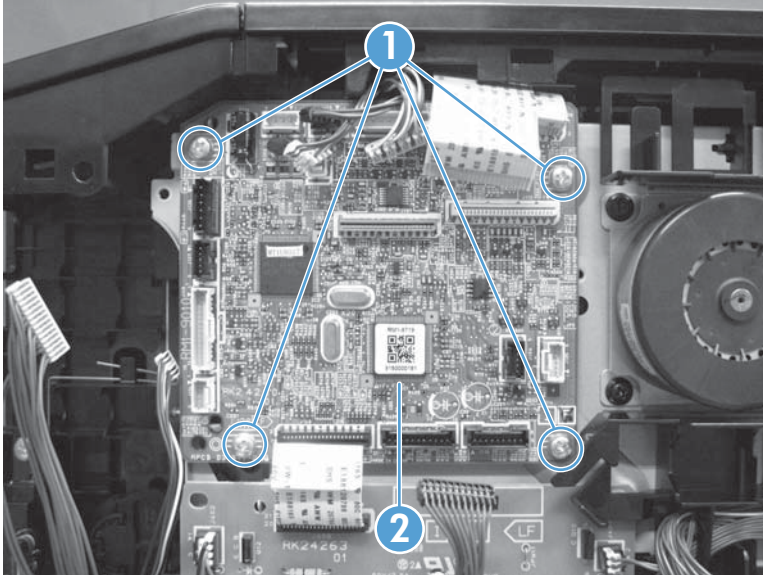
**Figure 1-54** Remove the DC controller PCA (1 of 2)



3. Remove four screws (callout 1), and then remove the DC controller PCA (callout 2).

 **NOTE:** These four DC controller PCA fscscrews are ground screws. Make sure that the correct screws are used to reinstall the DC controller PCA.

**Figure 1-55** Remove the DC controller PCA (2 of 2)



## Formatter PCA

### Special consideration

 **WARNING!** Do not install a *replacement* formatter PCA and DC controller PCA at the same time, and then turn the product power on.

The formatter PCA and the DC controller PCA store important product configuration information (NVRAM data) that will be lost if both PCAs are replaced at the same time. When the product power is turned on, the DC controller will restore the NVRAM data on the replacement formatter.

Replacing both the formatter and the DC controller at the same time will result in severe print-quality problems.

### Replacing the formatter PCA before the DC controller PCA

Use the following procedure if you need to install a replacement formatter PCA *and* a replacement DC controller.

 **NOTE:** If you are only installing a replacement formatter PCA, proceed to [Remove the formatter PCA on page 47](#).

1. Install a replacement formatter PCA.
2. Turn the product power on, and wait for the print-cartridge volume indicators to appear on the control-panel display.

 **NOTE:** This allows important product information to be written to the replacement formatter PCA.

3. Turn the product power off.
4. Install a replacement DC controller. See [DC controller PCA on page 44](#).
5. Turn the product power on.

### Remove the formatter PCA

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

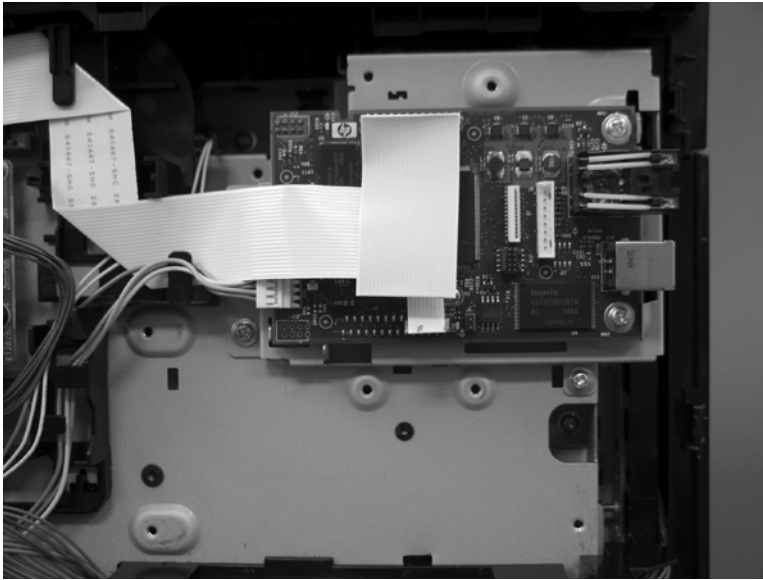
 Some parts are sensitive to electrostatic discharge (ESD). Look for the ESD reminder when removing product parts. Always perform service work at an ESD-protected workstation or mat. If an ESD workstation or mat is not available, ground yourself by touching the sheet-metal chassis *before* touching an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

1. Remove the right cover. See [Right cover on page 15](#).

**2.** Disconnect all of the FFCs and wire-harness connectors from the formatter PCA.

- FFCs
  - HP LaserJet Pro 200 color M251n Printer: J1, J5
  - HP LaserJet Pro 200 color M251nw Printer: J2, J5
- Wire-harness connectors
  - HP LaserJet Pro 200 color M251n Printer: J17
  - HP LaserJet Pro 200 color M251nw Printer: J12, J17

**Figure 1-56** Remove the formatter PCA (1 of 2)

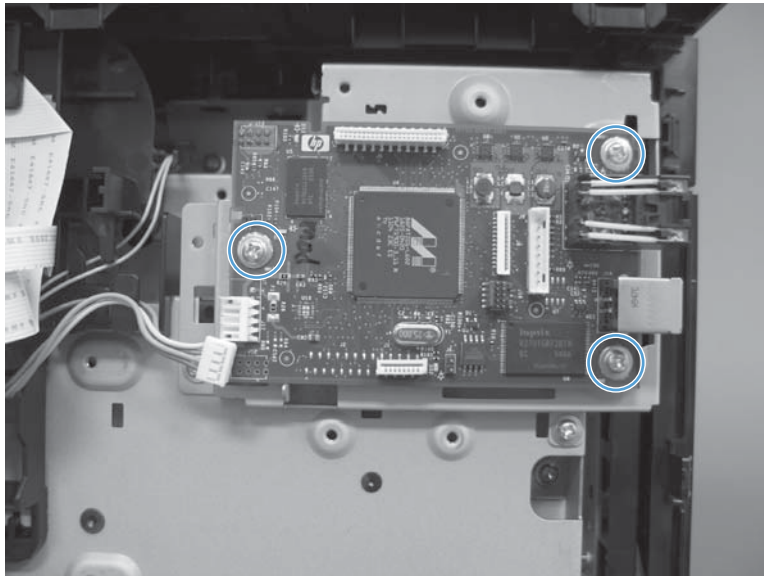


3. Remove three screws and then remove the formatter PCA.



**NOTE:** On the HP LaserJet Pro 200 color M251nw Printer products, the wireless PCA is attached to the formatter.

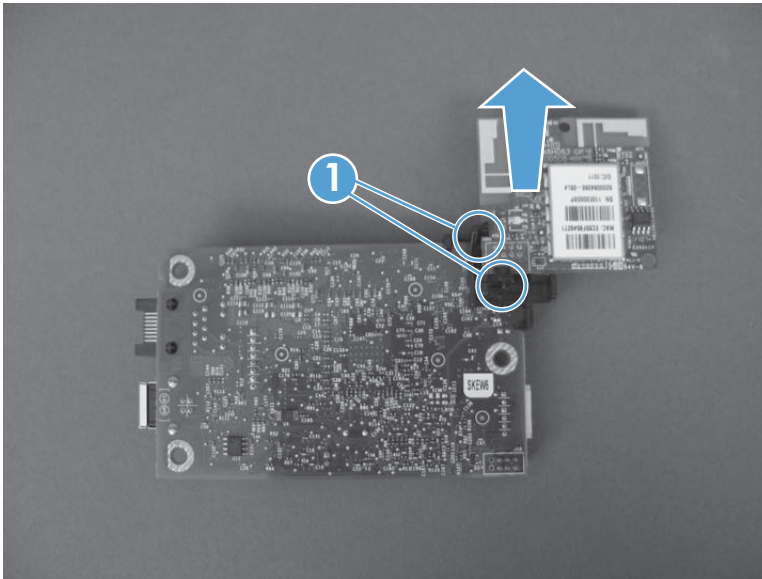
**Figure 1-57** Remove the formatter PCA (2 of 2)



## Wireless PCA

1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Formatter PCA. See [Formatter PCA on page 47](#)
2. Release the wireless PCA from the socket on the formatter PCA and remove the wireless PCA.

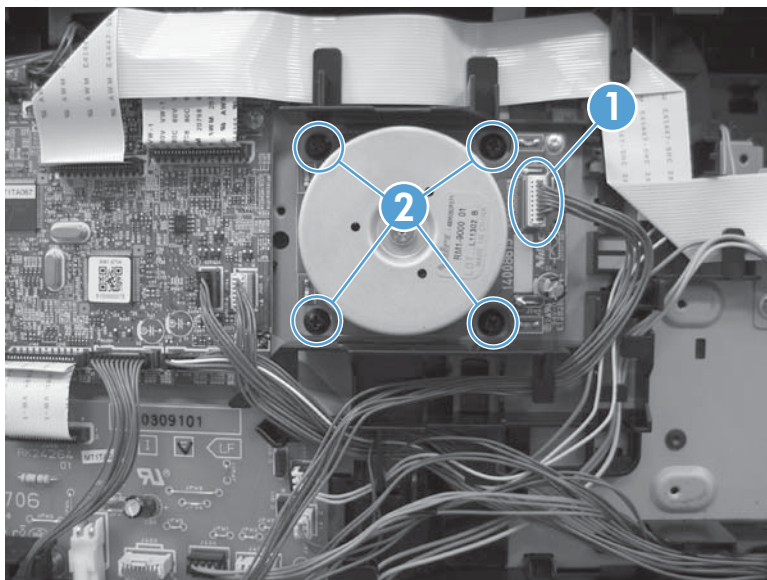
**Figure 1-58** Remove the wireless PCA



## Main motor

1. Remove the right cover. See [Right cover on page 15](#).
2. Disconnect one wire-harness connector (callout 1), remove four screws (callout 2), and then remove the main motor.

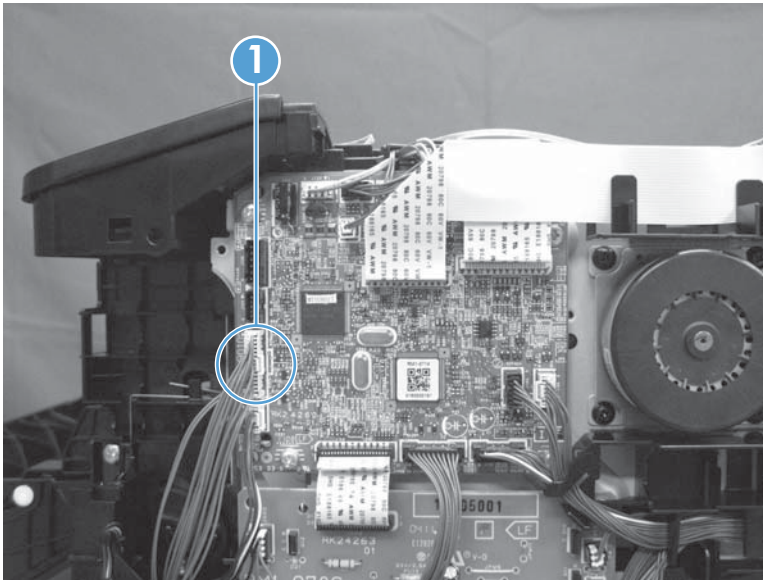
**Figure 1-59** Remove the main motor



## Intermediate transfer belt (ITB)

1. Remove the following components:
  - Toner-cartridge drawer. See [Toner-cartridge drawer on page 14](#).
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear-right cover. See [Rear right cover on page 21](#).
  - Rear door and rear lower cover. See [Rear door and rear lower cover on page 23](#).
2. Disconnect one connector (callout 1).

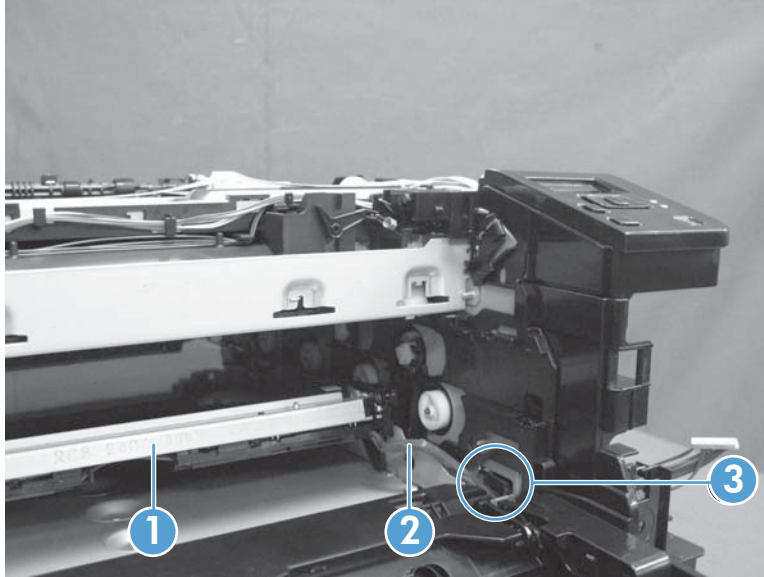
**Figure 1-60** Remove the ITB (1 of 3)



3. When disassembling the ITB assembly (callout 1) make sure to release the cable (callout 2) from the guide (callout 3).

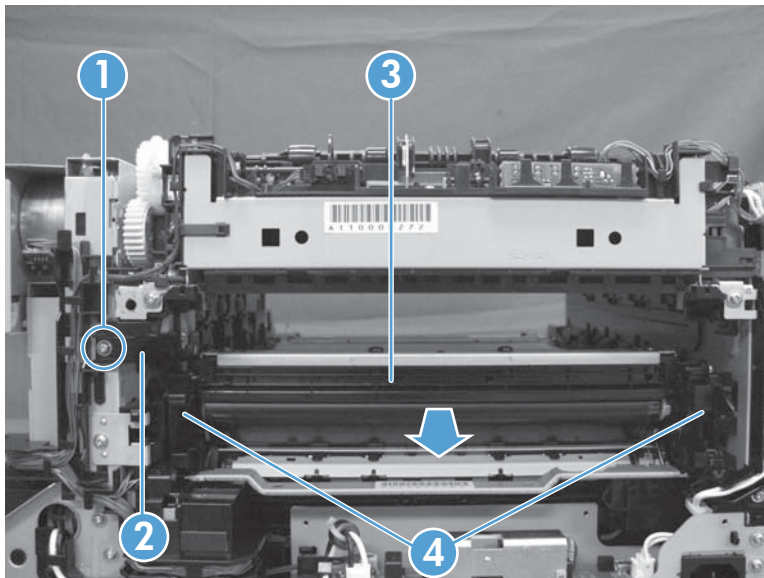
**CAUTION:** The cable can be damaged if it is not released from the guide before the ITB is removed from the chassis.

**Figure 1-61** Remove the ITB (2 of 3)



4. Remove one screw (callout 1) and the stopper part (callout 2). Lift the ITB assembly (callout 3) slightly by pushing up at the locations shown (callout 4) and then slide the ITB assembly out of the chassis to remove.

**Figure 1-62** Remove the ITB (3 of 3)



## Reinstall the ITB

Use the following guidelines when you install the ITB.

- **⚠ WARNING!** The lower sheet-metal portion of the ITB frame (callout 1) can be easily bent. Avoid handling the ITB by this part of the sheet-metal frame.

**Figure 1-63** Reinstall the ITB (1 of 2)



- When handling the ITB, always hold it using the hard plastic portions of the assembly.
- **⚠ CAUTION:** Avoid touching the black-plastic transfer belt or roller. Human skin oils on the belt or roller can cause print-quality problems.
- Do not let the transfer belt contact hard or sharp objects.
- **⚠ CAUTION:** Scratches, punctures, or other damages to the belt will cause print-quality problems.
- Make sure that the wire-harness is not twisted or pinched after it is passed through the opening in the chassis and that the ITB sits flat in the product.
- **📝 NOTE:** When the toner-cartridge drawer is installed, it should easily slide in and out of the product and not contact any part of the ITB assembly.

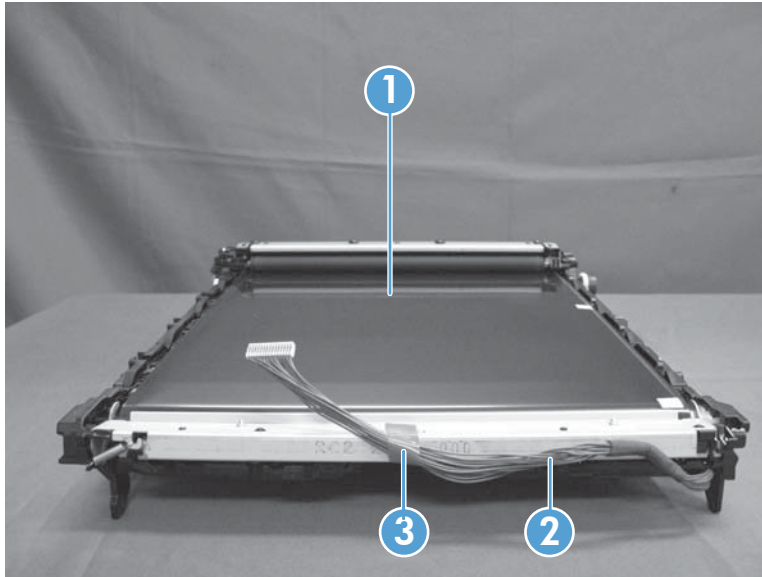
- Tape the wire-harness (callout 2) to the sheet-metal frame (callout 3) so that it will not catch on internal components as the ITB (callout 1) is installed.

With the ITB partially installed, feed the wire-harness through the opening in the chassis. Finish installing the ITB.

**⚠ WARNING!** Do not place the tape where it can make contact with or adhere to the transfer belt (callout 1). Tape or tape residue on the transfer belt will cause print-quality problems.

**📝 NOTE:** Remove all of the tape and tape residue after installing the ITB.

**Figure 1-64** Reinstall the ITB (2 of 2)



## High-voltage power supply

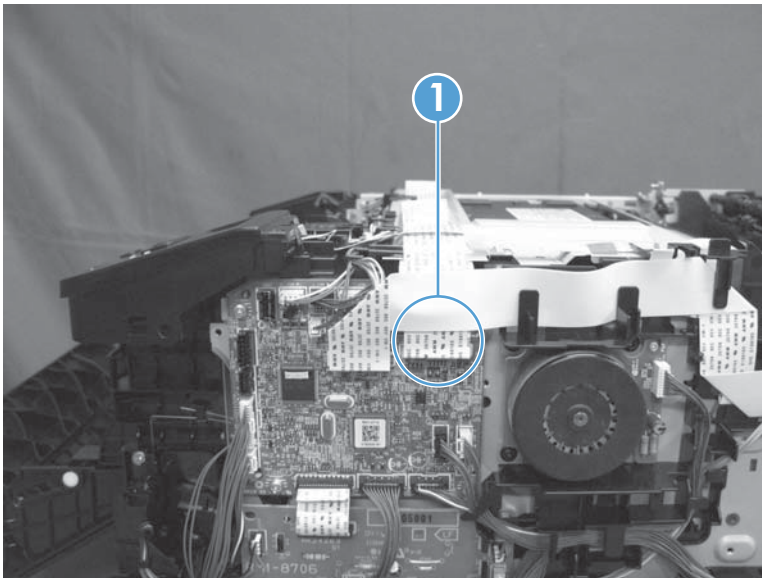
**CAUTION:** Do not bend or fold the flat flexible cables (FFCs) during removal or installation. Do not straighten pre-folds in the FFCs. You *must* make sure that all FFCs are fully seated in their connectors. Failure to fully seat an FFC into a connector can cause a short circuit in a PCA.

**1.** Remove the following components:

- Right cover. See [Right cover on page 15](#).
- Left cover. See [Left cover on page 18](#).
- Rear right cover. See [Rear right cover on page 21](#).
- Rear-upper cover. See [Rear upper cover on page 22](#).
- Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#) or [Upper cover, touchscreen control panel products \(HP LaserJet Pro 200 color M251nw Printer\) on page 28](#).

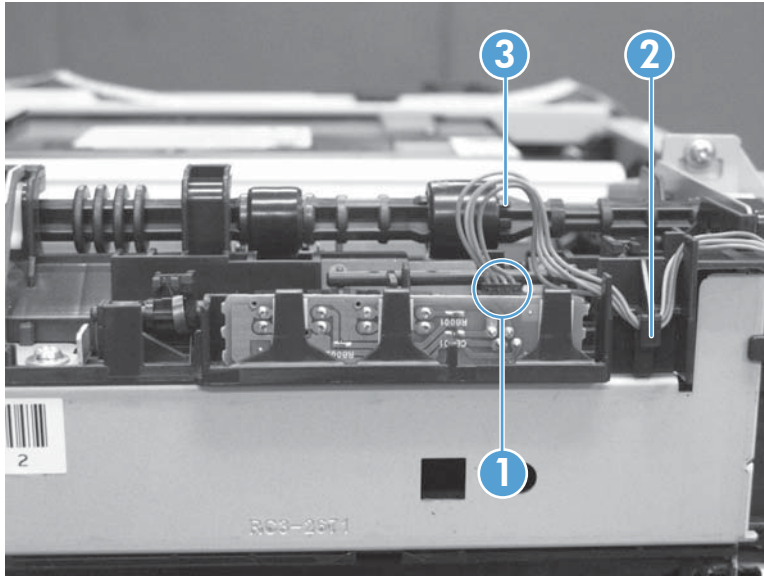
**2.** Disconnect one FFC (callout 1).

**Figure 1-65** Remove the high-voltage power supply (1 of 4)



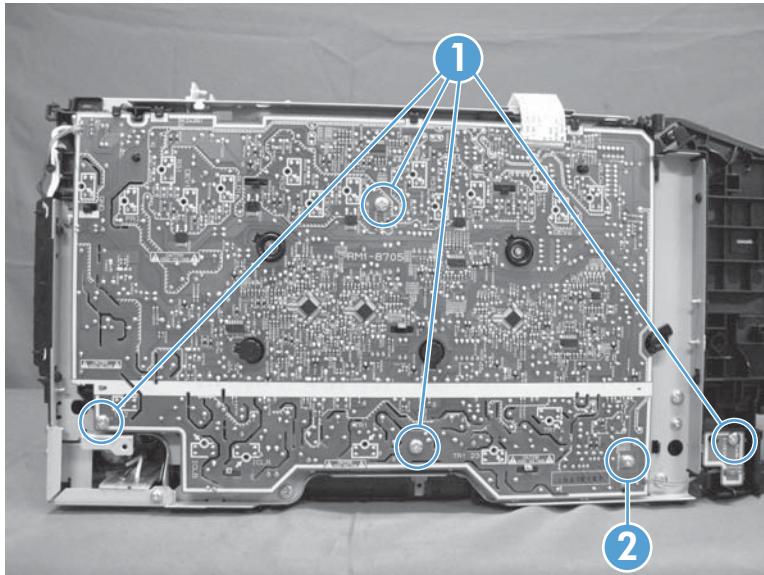
3. Disconnect one connector (callout 1) and release the cables (callout 3) from the cable guide (callout 2) located at the top of the fuser (non-drive side).

**Figure 1-66** Remove the high-voltage power supply (2 of 4)



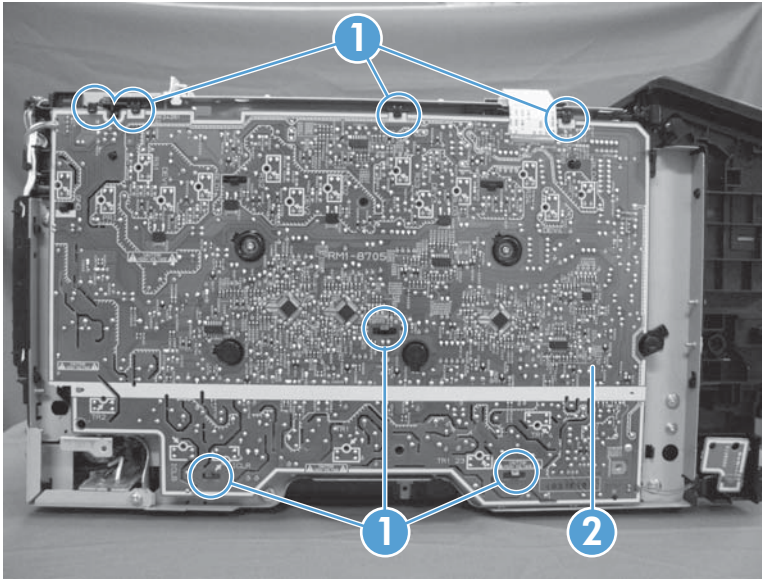
4. Remove four M4 screws (callout 1) and remove one screw with washer (callout 2).

**Figure 1-67** Remove the high-voltage power supply (3 of 4)



5. Release seven tabs (callout 1) and remove the high-voltage power supply assembly (callout 2).

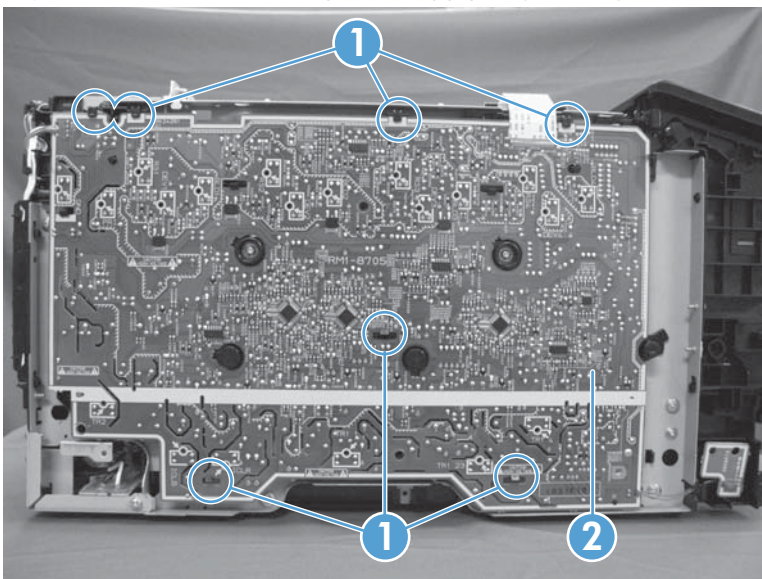
**Figure 1-68** Remove the high-voltage power supply (4 of 4)



### Reinstall the power supply (high voltage)

- Make sure that the power supply is correctly positioned under the tabs (callout 1) located on the product chassis. If the power supply is not correctly installed, the product will not function correctly and a fuser open error (50.7000) might appear in the event log.

**Figure 1-69** Reinstall the power supply (high voltage)

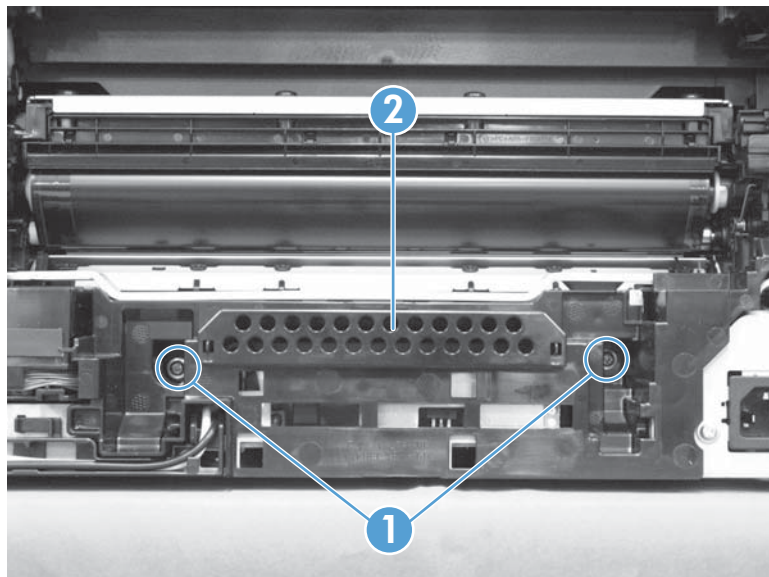


## Low-voltage power supply

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

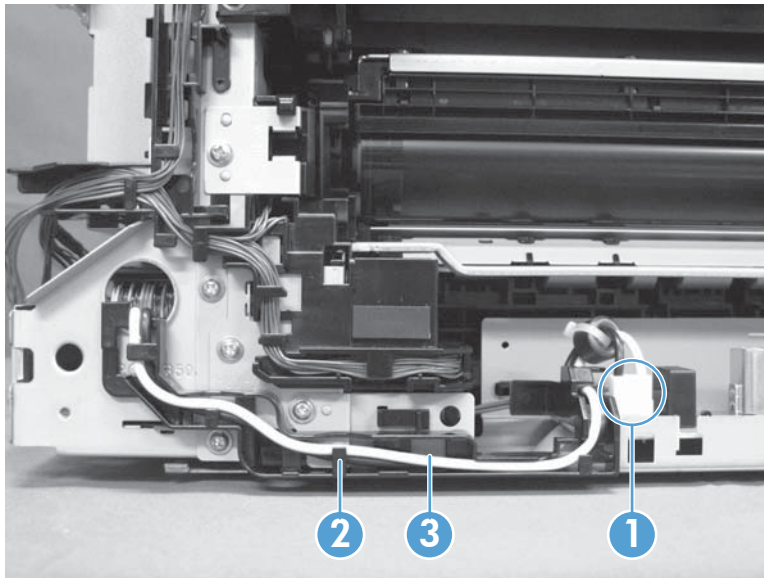
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear door and rear lower cover. See [Rear door and rear lower cover on page 23](#).
2. Remove two screws (callout 1) and the fuser power supply cover (callout 2).

**Figure 1-70** Remove the low-voltage power supply (1 of 3)



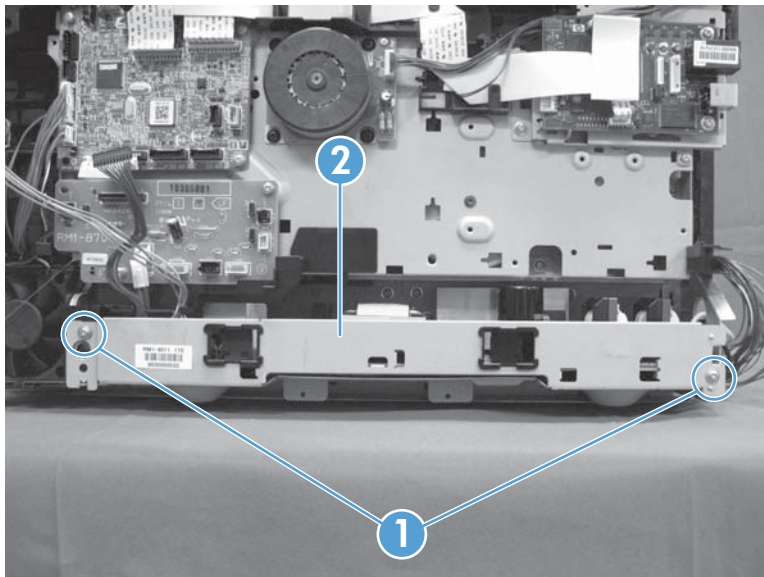
3. Disconnect one connector (callout 1), and release the cable (callout 3) from the cable guide (callout 2).

**Figure 1-71** Remove the low-voltage power supply (2 of 3)



4. Remove two screws (callout 1) and the low-voltage power supply assembly (callout 2).

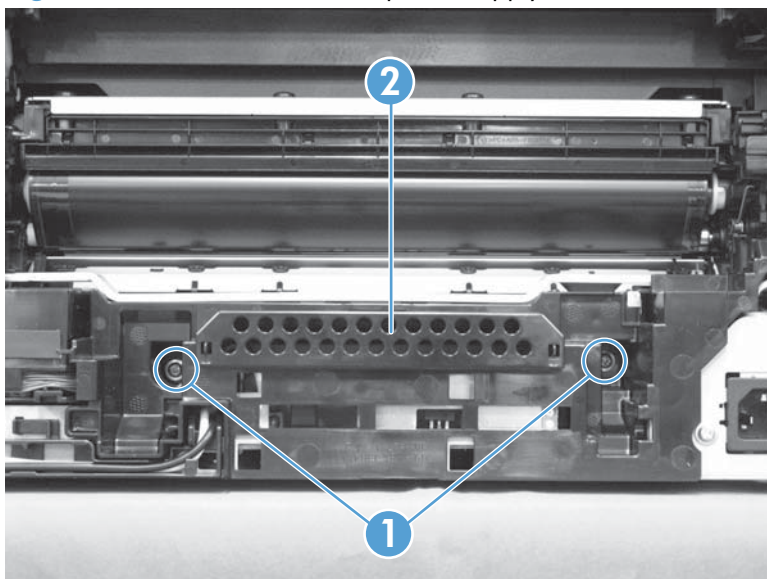
**Figure 1-72** Remove the low-voltage power supply (3 of 3)



## Fuser power supply

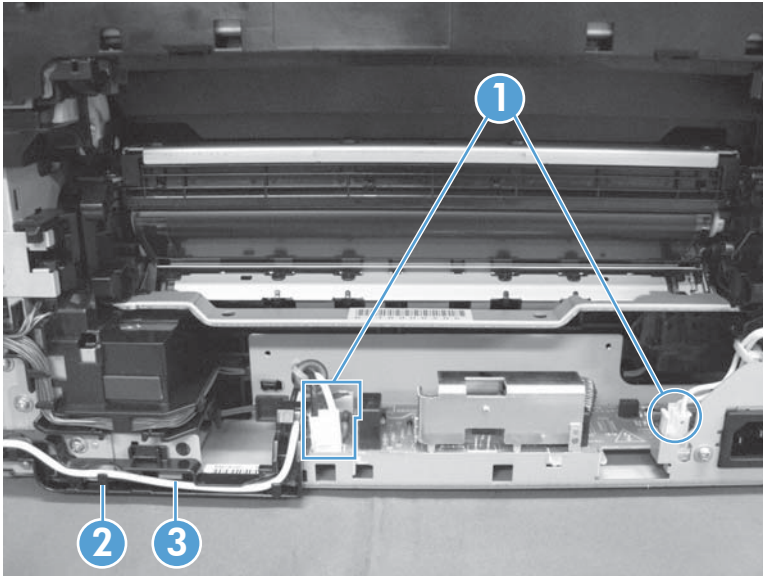
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear door and rear lower cover. See [Rear door and rear lower cover on page 23](#).
2. Remove two screws (callout 1) and the fuser power supply cover (callout 2).

**Figure 1-73** Remove the fuser power supply (1 of 4)



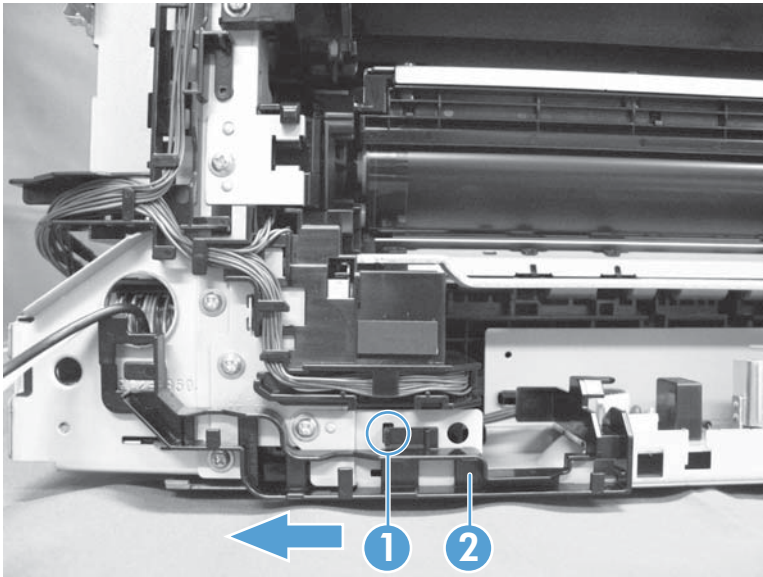
3. Disconnect three connectors (callout 1) and release cables (callout 3) from the cable guide (callout 2).

**Figure 1-74** Remove the fuser power supply (2 of 4)



4. Release one tab (callout 1) and slide the cable guide (callout 2) to the left to remove.

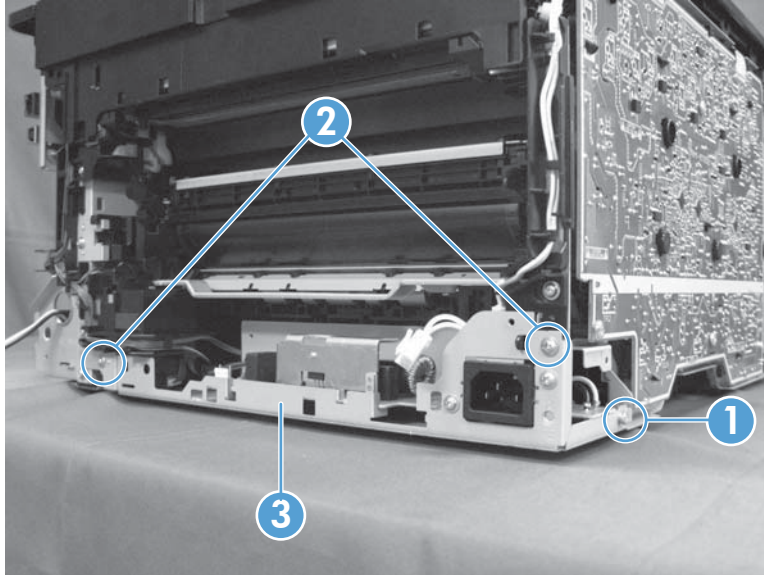
**Figure 1-75** Remove the fuser power supply (3 of 4)



5. Remove one screw with washer (callout 1). Remove two screws (callout 2) and the fuser power supply assembly (callout 3).

 **NOTE:** The two screws near the power inlet are ground screws. Make sure that these screws are placed in the correct positions when the power supply is reinstalled.

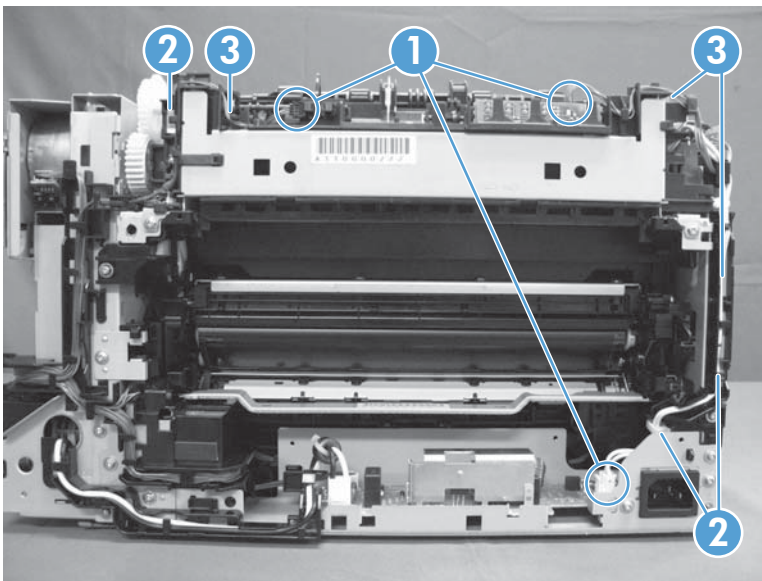
**Figure 1-76** Remove the fuser power supply (4 of 4)



## Fuser

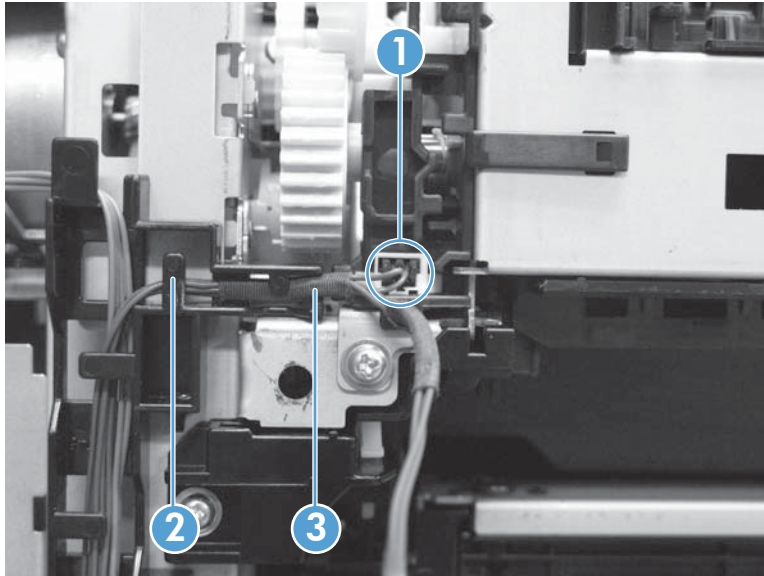
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
  - Left cover. See [Left cover on page 18](#).
  - Rear right cover. See [Rear right cover on page 21](#).
  - Rear-upper cover. See [Rear upper cover on page 22](#).
  - Rear door and rear lower cover. See [Rear door and rear lower cover on page 23](#).
  - Upper cover. See [Upper cover, LCD control panel products \(HP LaserJet Pro 200 color M251n Printer\) on page 26](#) or [Upper cover, touchscreen control panel products \(HP LaserJet Pro 200 color M251nw Printer\) on page 28](#).
2. Disconnect three connectors (callout 1). Release the cables (callout 2) from the cable guide (callout 3).

**Figure 1-77** Remove the fuser (1 of 3)



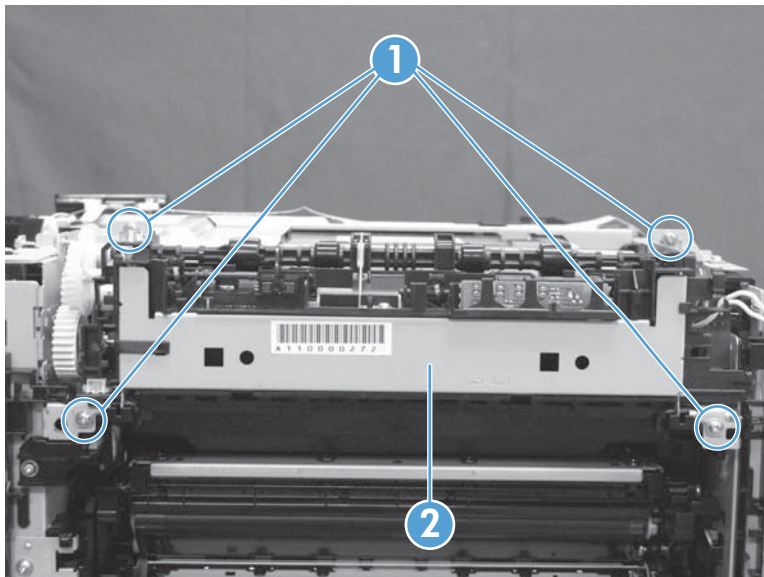
3. Disconnect one connector (callout 1). Release the cables (callout 2) from the cable guide (callout 3).

**Figure 1-78** Remove the fuser (2 of 3)



4. Remove four screws (callout 1) and the fuser (callout 2).

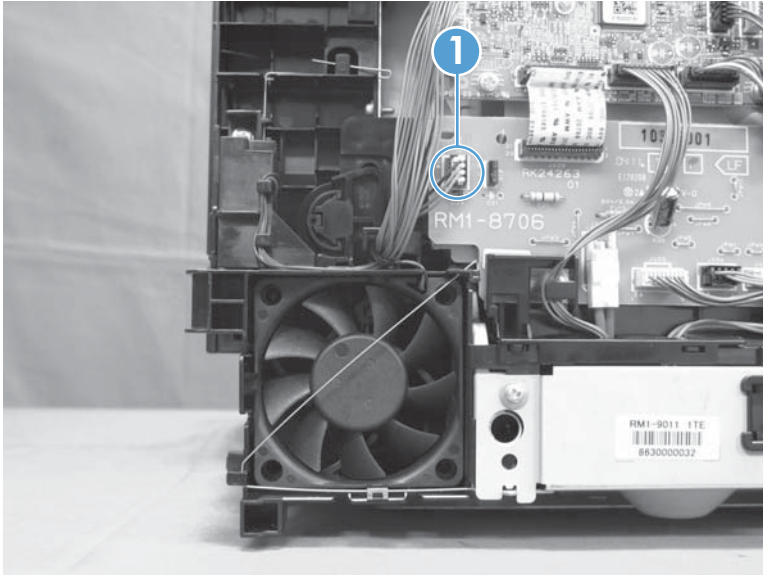
**Figure 1-79** Remove the fuser (3 of 3)



## Fan

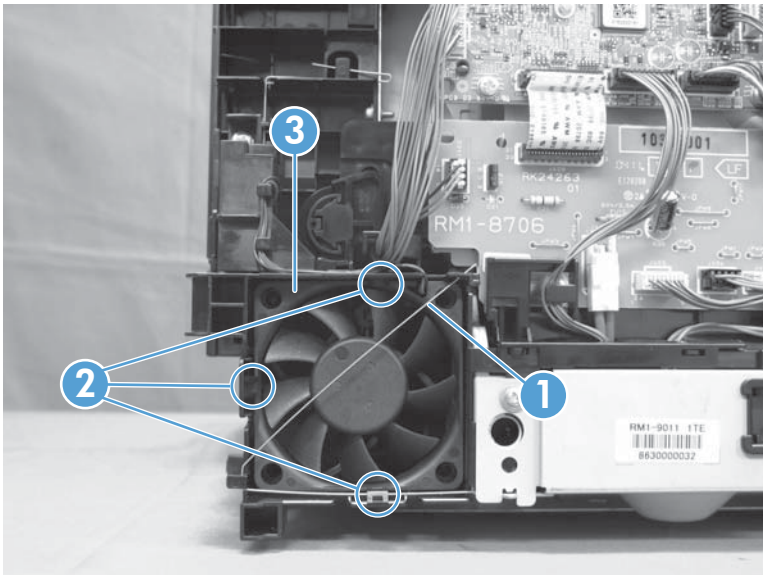
1. Remove the following components:
  - Right cover. See [Right cover on page 15](#).
2. Disconnect one connector (callout 1).

**Figure 1-80** Remove the fan (1 of 4)



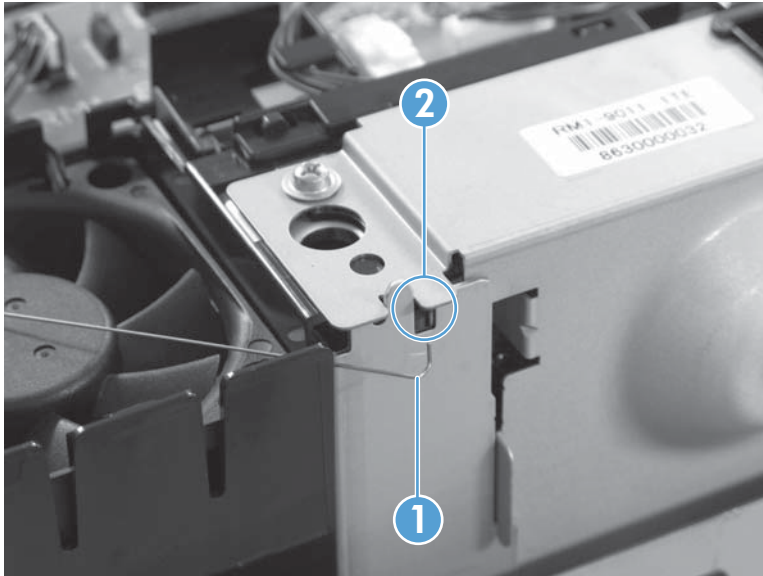
3. Remove the rod (callout 1), release three tabs (callout 2), and then remove the main fan (callout 3).

**Figure 1-81** Remove the fan (2 of 4)

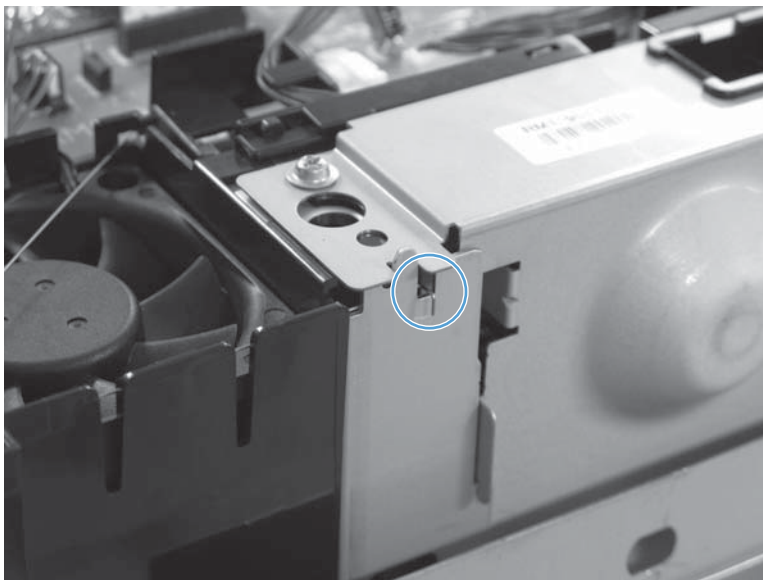


4. Place the end of the rod (callout 1) into the hole (callout 2) on the bottom of the printer when reassembling.

**Figure 1-82** Remove the fan (3 of 4)



**Figure 1-83** Remove the fan (4 of 4)





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## 2 Parts and diagrams



**NOTE:** In this chapter, part numbers are only listed for available replaceable parts.

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- [Order parts by authorized service providers](#)
- [How to use the parts lists and diagrams](#)
- [Assembly locations](#)
- [Covers, panels, and doors](#)
- [Internal assemblies](#)
- [Alphabetical parts list](#)
- [Numerical parts list](#)

# Order parts by authorized service providers

## Order replacement parts

**Table 2-1 Order parts, accessories, and supplies**

|                                            |                                                                        |
|--------------------------------------------|------------------------------------------------------------------------|
| Order supplies and paper                   | <a href="http://www.hp.com/go/suresupply">www.hp.com/go/suresupply</a> |
| Order genuine HP parts or accessories      | <a href="http://www.hp.com/buy/parts">www.hp.com/buy/parts</a>         |
| Order through service or support providers | Contact an HP-authorized service or support provider                   |

## Related documentation and software

**Table 2-2 Related documentation and software**

| Item                                                                | Description                          | Part number |
|---------------------------------------------------------------------|--------------------------------------|-------------|
| <i>HP LaserJet Pro 200 color M251 Series Printer User Guide</i>     | Product user guide                   | CF146-90901 |
| <i>HP LaserJet Pro 200 color M251 Series Printer Service Manual</i> | English service manual (this manual) | CF146-90961 |

## Supplies part numbers

**Table 2-3 Supplies part numbers**

| Part             | Part number | Type/size                                         |
|------------------|-------------|---------------------------------------------------|
| Toner cartridges | CF210-67901 | Black toner cartridge with HP ColorSphere toner   |
|                  | CF211-67901 | Cyan toner cartridge with HP ColorSphere toner    |
|                  | CF212-67901 | Yellow toner cartridge with HP ColorSphere toner  |
|                  | CF213-67901 | Magenta toner cartridge with HP ColorSphere toner |

## Service parts



**NOTE:** The parts in the following table are not shown in the assembly illustrations in this chapter.

**Table 2-4 Service parts**

| Item                                  | Description       | Part number |
|---------------------------------------|-------------------|-------------|
| HP jewel                              | HP logo           | 7121-8496   |
| HP nameplate (network model)          | Product nameplate | CF146-00002 |
| HP nameplate (network wireless model) | Product nameplate | CF147-00003 |

## Whole-unit replacement part numbers



**NOTE:** Whole-unit replacement products include the formatter PCA.

**Table 2-5 Whole-unit replacement part numbers**

| Item                                     | Description     | Part number               |
|------------------------------------------|-----------------|---------------------------|
| HP LaserJet Pro 200 color M251n Printer  | 110v WUR NAR/TW | CF146-69055 (exchange)    |
|                                          | 220v WUR EMEA   | CF146-69056 (exchange)    |
|                                          | 220v WUR CN/MY  | CF146-69057 (exchange)    |
|                                          | 110v WUR BR     | CF146-67055 (replacement) |
|                                          | 220v WUR AP/LAR | CF146-67056 (replacement) |
|                                          | 220v WUR CL/AR  | CF146-67057 (replacement) |
| HP LaserJet Pro 200 color M251nw Printer | 110v WUR NAR/TW | CF147-69055 (exchange)    |
|                                          | 220v WUR EMEA   | CF147-69056 (exchange)    |
|                                          | 220v WUR CN/MY  | CF147-69057 (exchange)    |
|                                          | 110v WUR BR     | CF147-67055 (replacement) |
|                                          | 220v WUR AP/LAR | CF147-67056 (replacement) |
|                                          | 220v WUR CL/AR  | CF147-67057 (replacement) |
| HP LaserJet Pro 200 color M251n Printer  | Formatter       | CF152-60001 (replacement) |
| HP LaserJet Pro 200 color M251nw Printer | Formatter       | CF153-60001 (replacement) |

## 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.

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# Assembly locations

## Base product (no optional trays or accessories)

Figure 2-1 LCD control-panel model (HP LaserJet Pro 200 color M251n Printer)

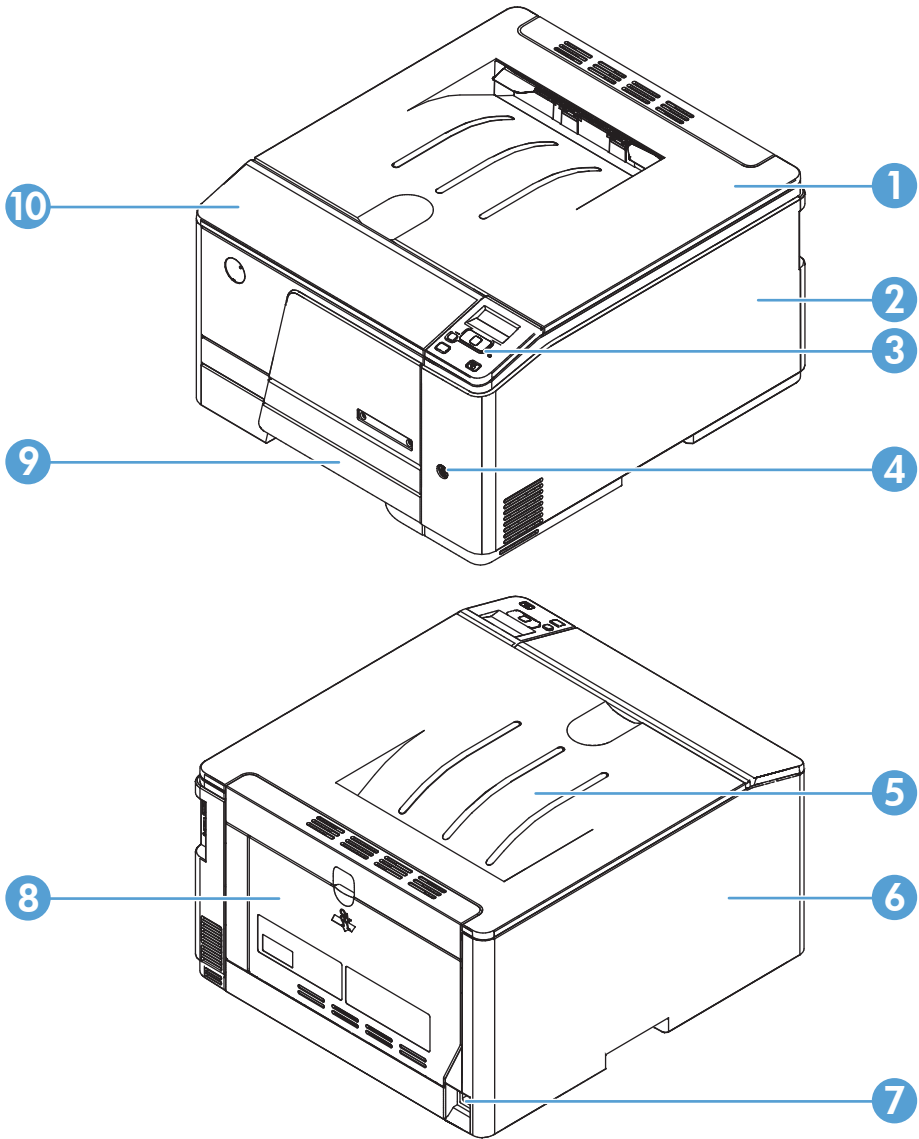
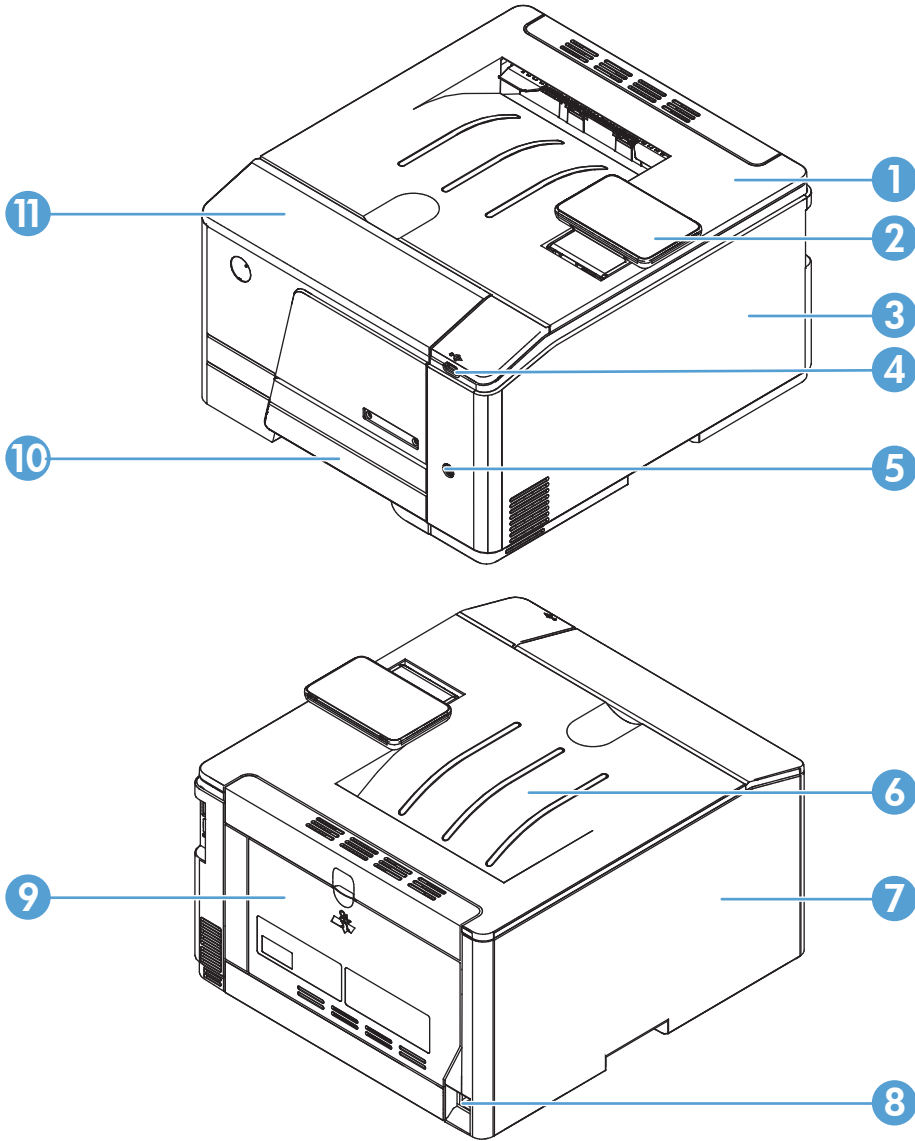


Table 2-6 LCD model

| Item | Description   | Item | Description      |
|------|---------------|------|------------------|
| 1    | Upper cover   | 6    | Left cover       |
| 2    | Right cover   | 7    | Power receptacle |
| 3    | Control panel | 8    | Rear door        |
| 4    | Power switch  | 9    | Cassette         |
| 5    | Output bin    | 10   | Front door       |

**Figure 2-2** Touchscreen control-panel model (HP LaserJet Pro 200 color M251nw Printer)



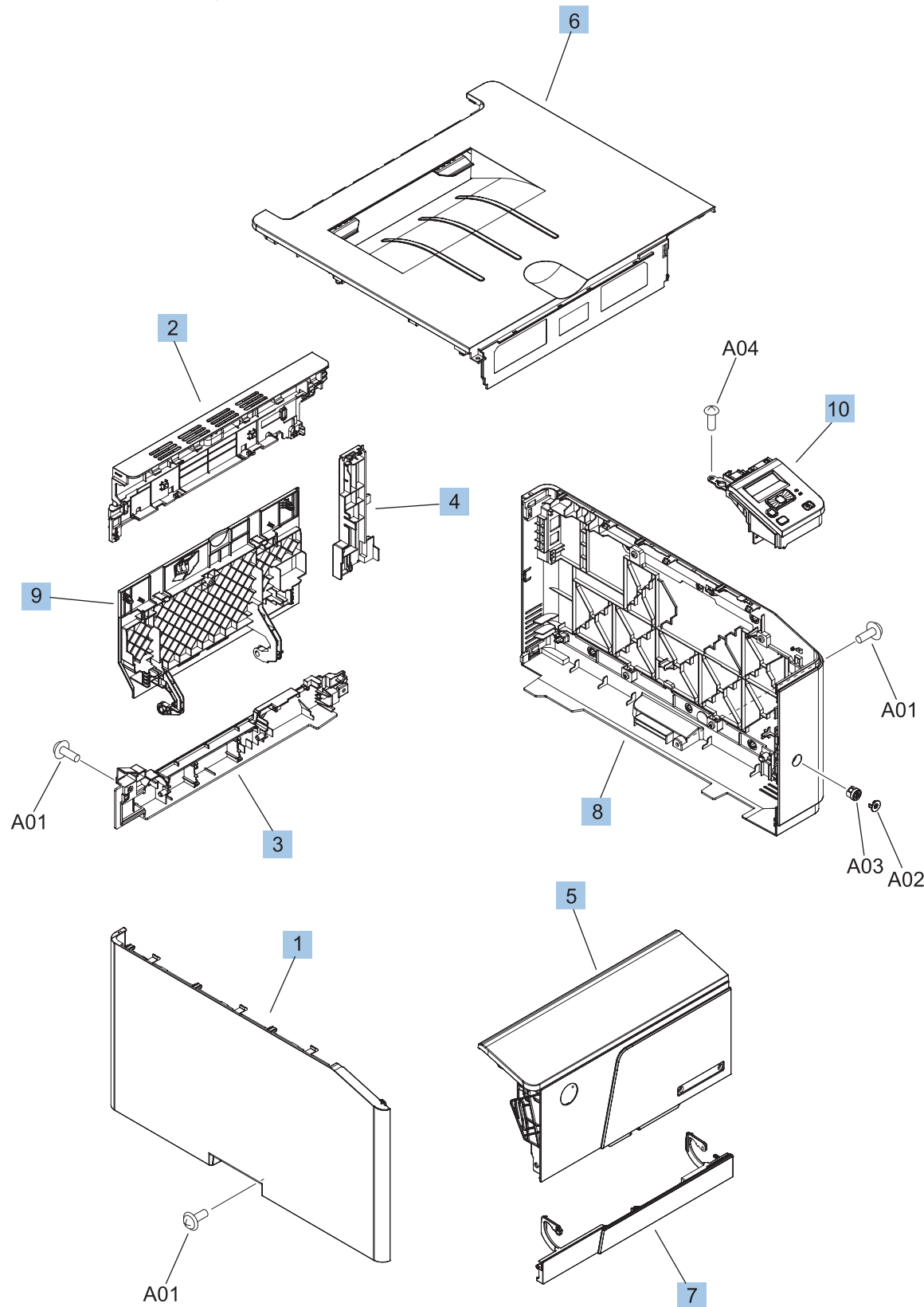
**Table 2-7** Touchscreen control-panel model

| Item | Description   | Item | Description      |
|------|---------------|------|------------------|
| 1    | Upper cover   | 7    | Left cover       |
| 2    | Control panel | 8    | Power receptacle |
| 3    | Right cover   | 9    | Rear door        |
| 4    | USB port      | 10   | Cassette         |
| 5    | Power switch  | 11   | Front door       |
| 6    | Output bin    |      |                  |



# Covers, panels, and doors

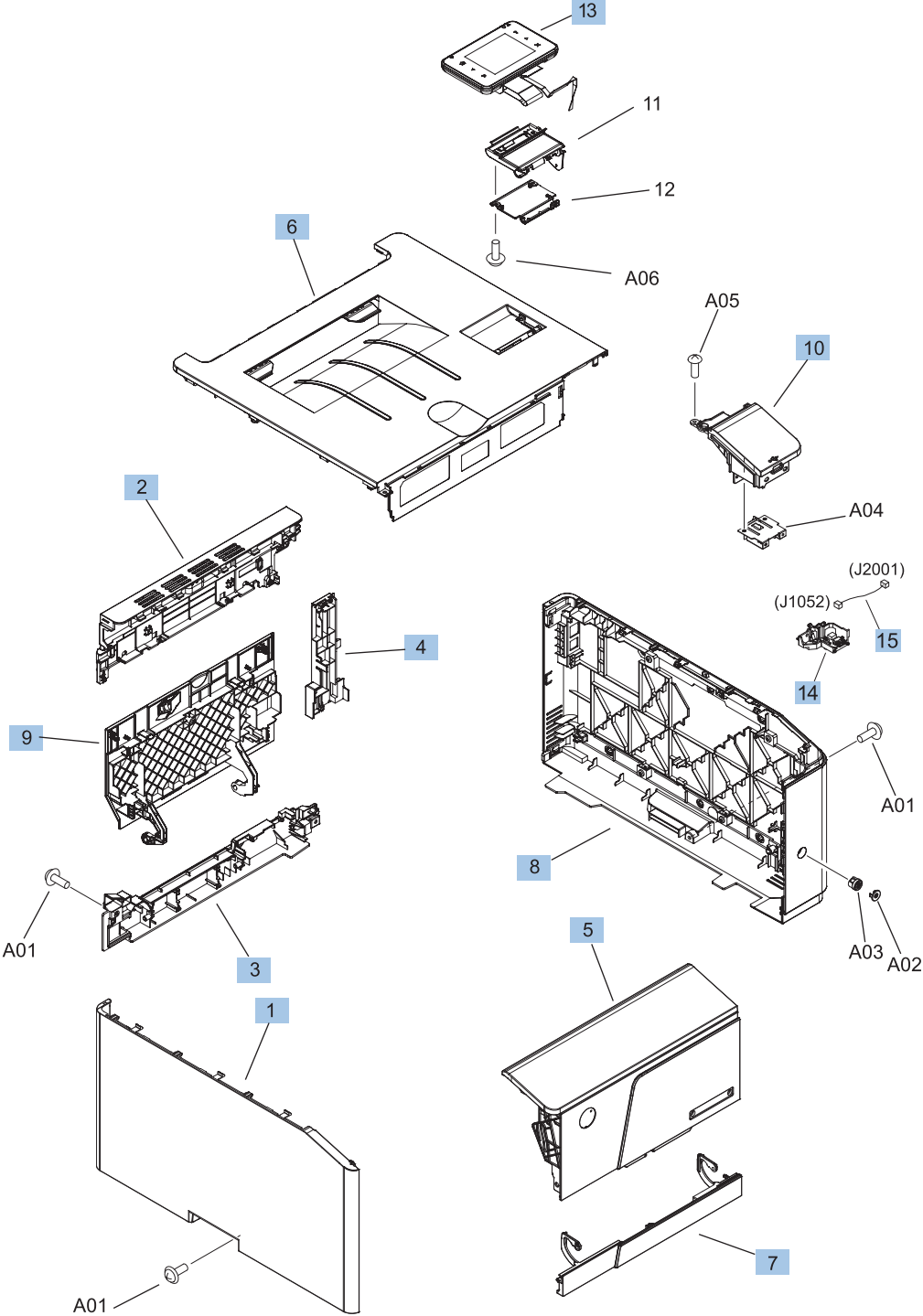
Figure 2-3 Covers, panels, and doors—network model



**Table 2-8 Covers, panels, and doors—network model**

| <b>Ref</b> | <b>Description</b>                     | <b>Part number</b> | <b>Qty</b> |
|------------|----------------------------------------|--------------------|------------|
| 1          | Cover, left                            | RC3-2652-000       | 1          |
| 2          | Cover, rear, upper                     | RC3-2656-000       | 1          |
| 3          | Cover, rear, lower                     | RC3-2658-000       | 1          |
| 4          | Cover, rear, right                     | RC3-2657-000       | 1          |
| 5          | Door, front                            | RM1-8768-000       | 1          |
| 6          | Upper cover assembly                   | RM1-8770-000       | 1          |
| 7          | Cover, front                           | RM1-8769-000       | 1          |
| 8          | Right cover assembly                   | RM1-8771-000       | 1          |
| 9          | Door, rear                             | RC3-2659-000       | 1          |
| 10         | Control-panel assembly (network model) | RM1-8788-000       | 1          |

**Figure 2-4** Covers, panels, and doors—network wireless model

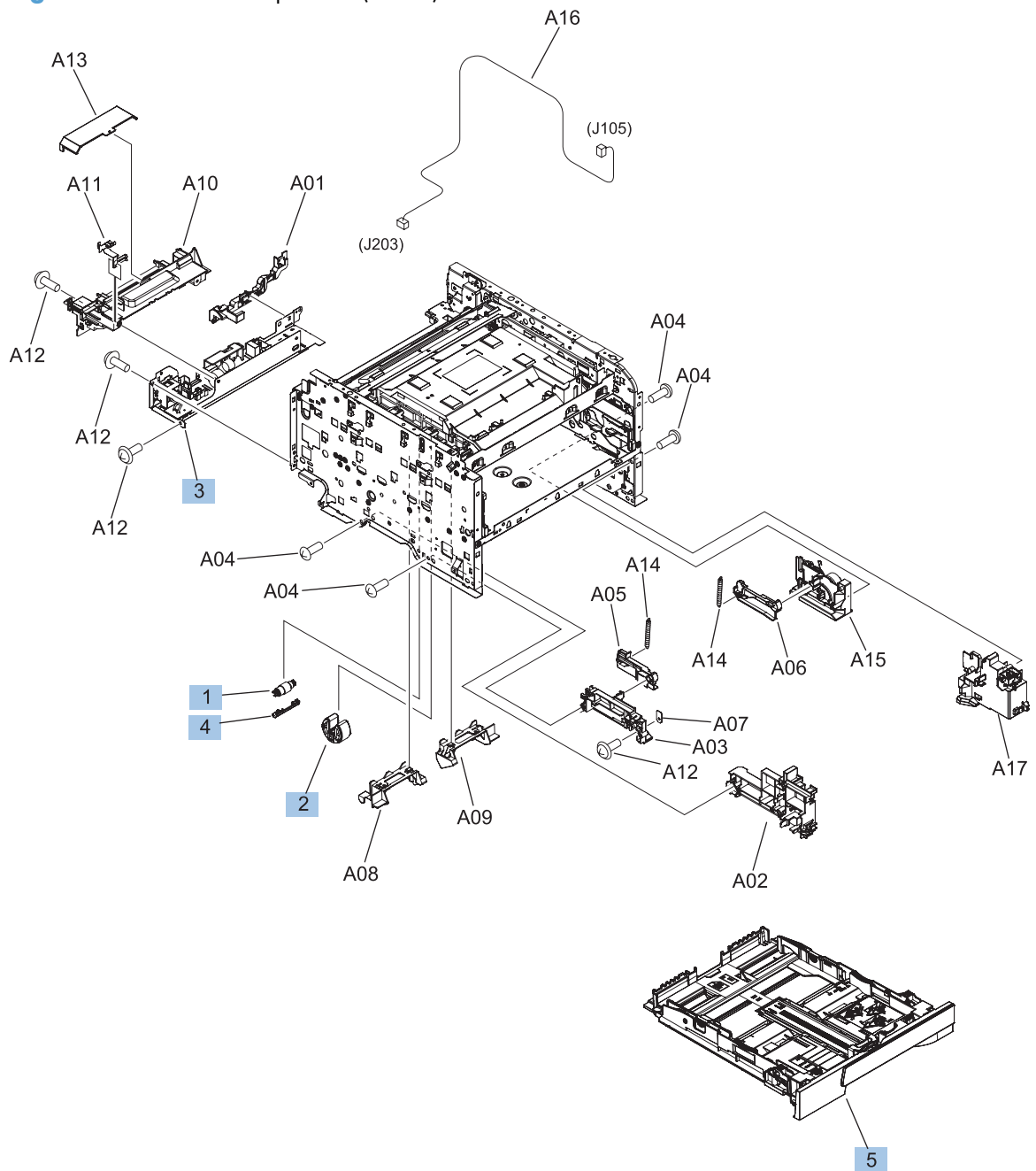


**Table 2-9 Covers, panels, and doors—network wireless model**

| <b>Ref</b> | <b>Description</b>                    | <b>Part number</b> | <b>Qty</b> |
|------------|---------------------------------------|--------------------|------------|
| 1          | Cover, left                           | RC3-2652-000       | 1          |
| 2          | Cover, rear upper                     | RC3-2656-000       | 1          |
| 3          | Cover, rear lower                     | RC3-2658-000       | 1          |
| 4          | Cover, rear right                     | RC3-2657-000       | 1          |
| 5          | Door, front                           | RM1-8768-000       | 1          |
| 6          | Cover, upper                          | RM1-9327-000       | 1          |
| 7          | Cover, front                          | RM1-8769-000       | 1          |
| 8          | Cover, right                          | RM1-8771-000       | 1          |
| 9          | Door, rear                            | RC3-2659-000       | 1          |
| 10         | Cover, USB                            | RC3-2893-000       | 1          |
| 13         | Control panel, wireless network model | CF147-60101        | 1          |
| 14         | Walk-up USB PCA                       | CF368A             | 1          |
| 15         | Walk-up USB cable                     | CF146-60103        | 1          |

# Internal assemblies

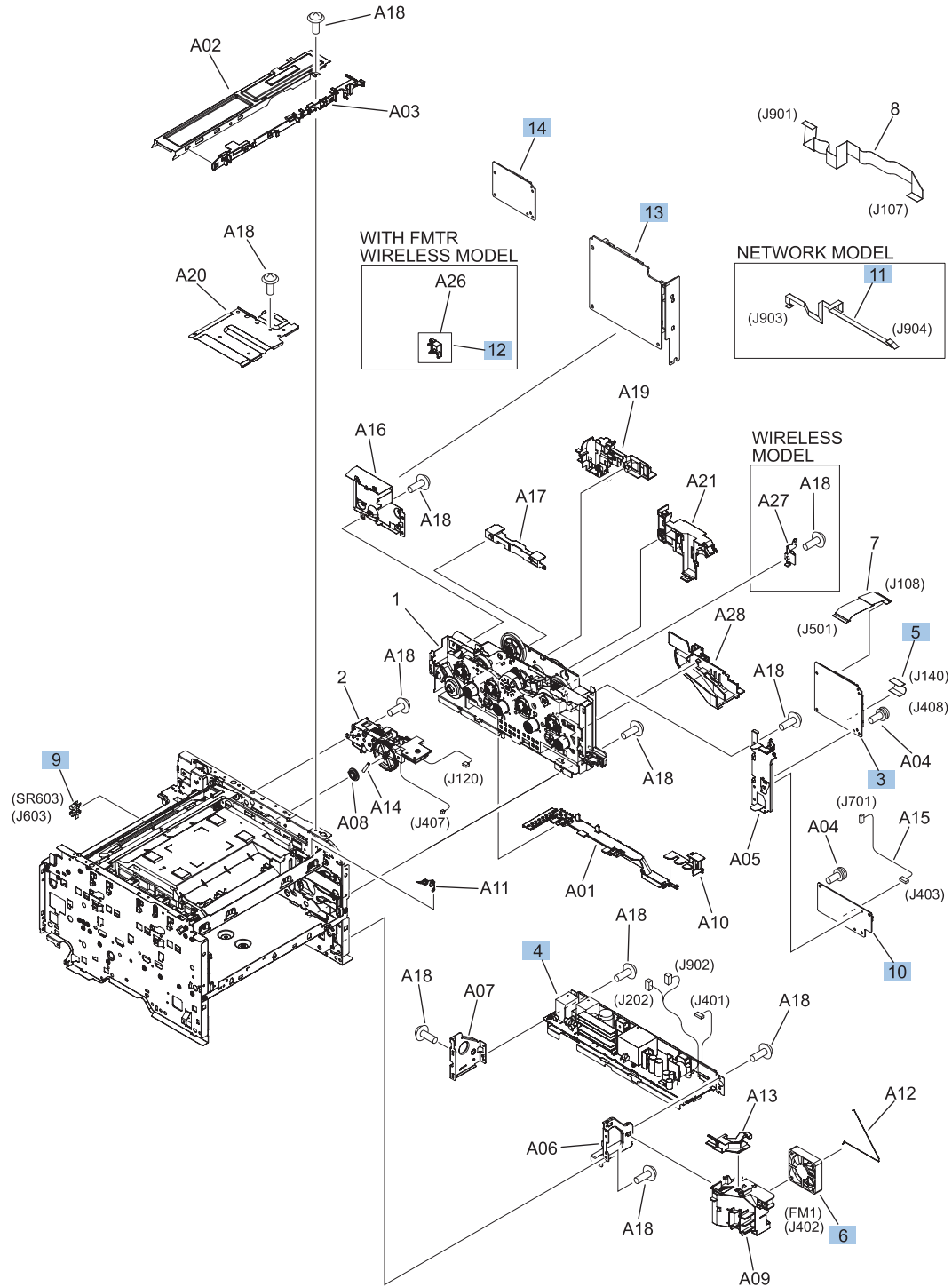
**Figure 2-5** Internal components (1 of 4)



**Table 2-10 Internal components (1 of 4)**

| <b>Ref</b> | <b>Description</b>                      | <b>Part number</b> | <b>Qty</b> |
|------------|-----------------------------------------|--------------------|------------|
| 1          | Roller, separation Assembly             | RM1-8765-000       | 1          |
| 2          | Roller, pickup assembly                 | RM1-8047-000       | 1          |
| 3          | Fuser power supply assembly (220V-240V) | RM1-8710-000       | 1          |
| 3          | Fuser power supply assembly (110V-127V) | RM1-8709-000       | 1          |
| 4          | Cover, holder                           | RC2-2014-000       | 1          |
| 5          | Cassette assembly                       | RM1-8772-000       | 1          |

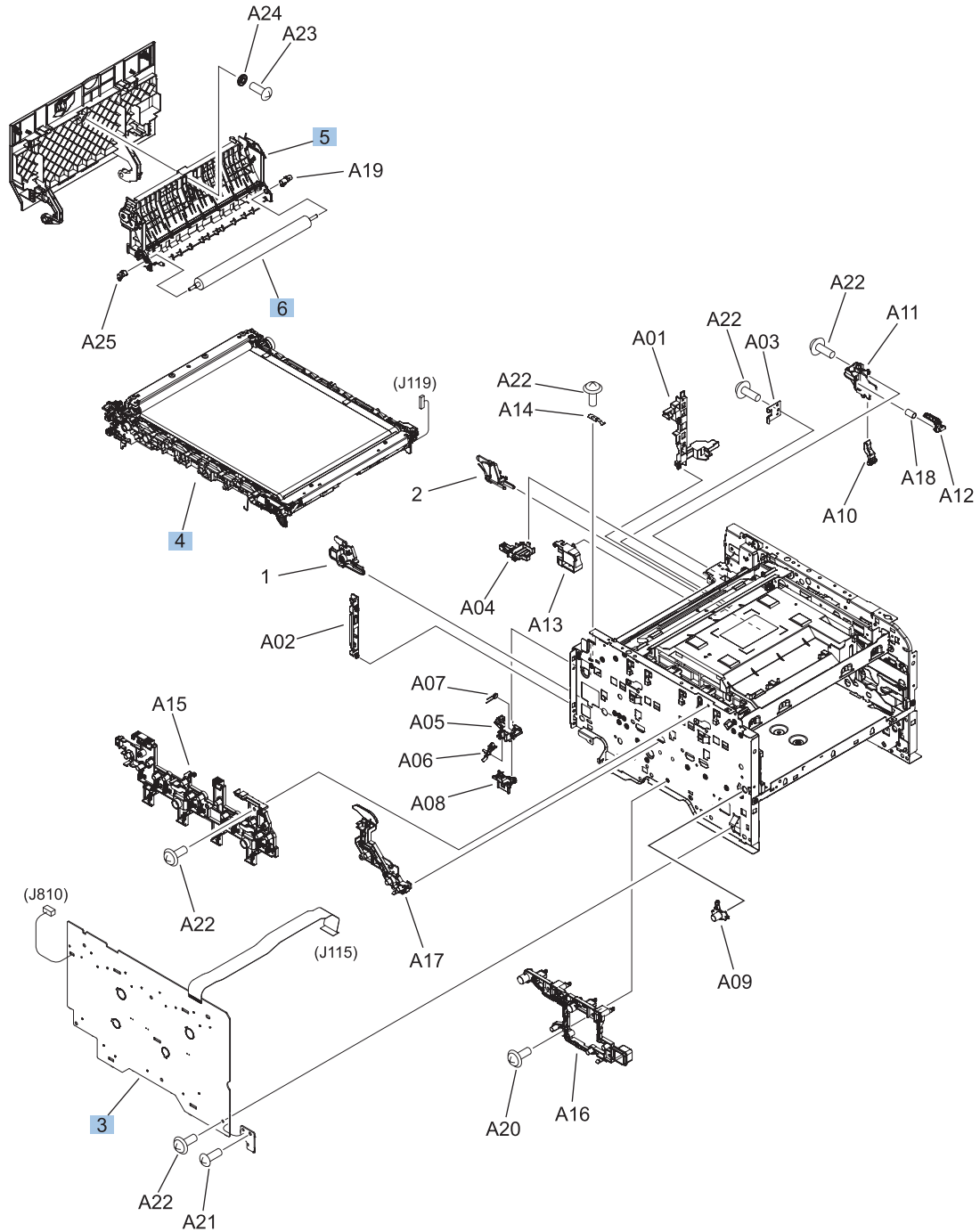
**Figure 2-6** Internal components (2 of 4)



**Table 2-11 Internal components (2 of 4)**

| <b>Ref</b> | <b>Description</b>                                                    | <b>Part number</b> | <b>Qty</b> |
|------------|-----------------------------------------------------------------------|--------------------|------------|
| 1          | Main drive assembly                                                   | RM1-9328-000       | 1          |
| 2          | Sub drive assembly                                                    | RM1-8785-000       | 1          |
| 3          | DC controller PCA                                                     | RM1-8704-000       | 1          |
| 4          | Low voltage power supply assembly, network model (110V-127V)          | RM1-9011-000       | 1          |
| 4          | Low voltage power supply assembly, network model (220V-240V)          | RM1-9013-000       | 1          |
| 4          | Low voltage power supply assembly, network wireless model (110V-127V) | RM1-9012-000       | 1          |
| 4          | Low voltage power supply assembly, network wireless model (220V-240V) | RM1-9014-000       | 1          |
| 5          | Cable, flexible flat (base, network model)                            | RK2-4540-000       | 1          |
| 6          | Fan                                                                   | RK2-4255-000       | 1          |
| 10         | PCA, driver assembly                                                  | RM1-8706-000       | 1          |
| 11         | Cable, flexible flat (network model)                                  | RK2-4546-000       | 1          |
| 12         | Bracket, wireless                                                     | RC3-2746-000       |            |
| 13         | Formatter PCA (network model)                                         | CF152-60001        | 1          |
| 13         | Formatter, (network wireless model)                                   | CF153-60001        | 1          |
| 14         | Wireless PCA                                                          | 1150-7940          | 1          |

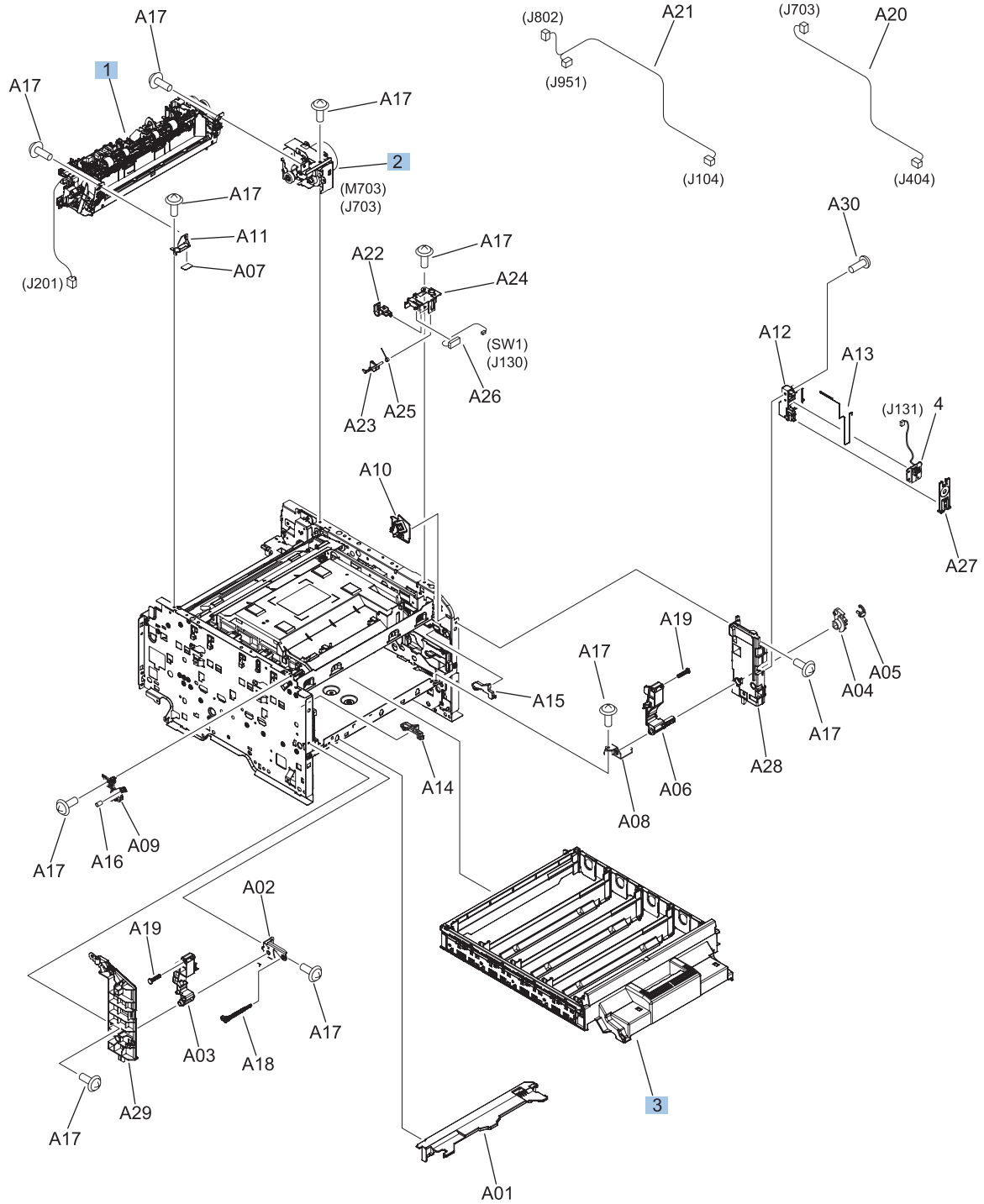
**Figure 2-7** Internal components (3 of 4)



**Table 2-12 Internal components (3 of 4)**

| <b>Ref</b> | <b>Description</b>                        | <b>Part number</b> | <b>Qty</b> |
|------------|-------------------------------------------|--------------------|------------|
| 1          | ITB lock lever assembly, left             | RM1-4482-000       | 1          |
| 2          | ITB lock lever assembly, right            | RM1-4483-000       | 1          |
| 3          | High voltage PCA                          | RM1-8705-000       | 1          |
| 4          | Intermediate transfer belt assembly (ITB) | RM1-8777-000       | 1          |
| 5          | Paper feed guide assembly                 | RM1-8779-000       | 1          |
| 6          | Roller, transfer                          | RM1-4445-000       | 1          |

**Figure 2-8** Internal components (4 of 4)



**Table 2-13 Internal components (4 of 4)**

| <b>Ref</b> | <b>Description</b>         | <b>Part number</b> | <b>Qty</b> |
|------------|----------------------------|--------------------|------------|
| 1          | Fuser assembly (110V-127V) | RM1-8780-000       | 1          |
| 1          | Fuser assembly (220V-240V) | RM1-8781-000       | 1          |
| 2          | Fuser drive motor          | RM1-8784-000       | 1          |
| 3          | Cassette assembly          | RM1-8774-000       | 1          |

# Alphabetical parts list

**Table 2-14 Alphabetical parts list**

| Description                                | Part number  | Table and page                                                              |
|--------------------------------------------|--------------|-----------------------------------------------------------------------------|
| Bracket, wireless                          | RC3-2746-000 | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Cable, flexible flat (base, network model) | RK2-4540-000 | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Cable, flexible flat (network model)       | RK2-4546-000 | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Cassette assembly                          | RM1-8772-000 | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| Cassette assembly                          | RM1-8774-000 | <a href="#">Internal components (4 of 4) on page 87</a>                     |
| Control panel, wireless network model      | CF147-60101  | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Control-panel assembly (network model)     | RM1-8788-000 | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Cover, front                               | RM1-8769-000 | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Cover, front                               | RM1-8769-000 | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Cover, holder                              | RC2-2014-000 | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| Cover, left                                | RC3-2652-000 | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Cover, left                                | RC3-2652-000 | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Cover, rear lower                          | RC3-2658-000 | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Cover, rear right                          | RC3-2657-000 | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Cover, rear upper                          | RC3-2656-000 | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Cover, rear, lower                         | RC3-2658-000 | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Cover, rear, right                         | RC3-2657-000 | <a href="#">Covers, panels, and doors—network model on page 77</a>          |

**Table 2-14 Alphabetical parts list (continued)**

| <b>Description</b>                      | <b>Part number</b> | <b>Table and page</b>                                                                |
|-----------------------------------------|--------------------|--------------------------------------------------------------------------------------|
| Cover, rear, upper                      | RC3-2656-000       | <a href="#">Covers, panels, and doors—<br/>network model on page 77</a>              |
| Cover, right                            | RM1-8771-000       | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| Cover, upper                            | RM1-9327-000       | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| Cover, USB                              | RC3-2893-000       | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| DC controller PCA                       | RM1-8704-000       | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| Door, front                             | RM1-8768-000       | <a href="#">Covers, panels, and doors—<br/>network model on page 77</a>              |
| Door, front                             | RM1-8768-000       | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| Door, rear                              | RC3-2659-000       | <a href="#">Covers, panels, and doors—<br/>network model on page 77</a>              |
| Door, rear                              | RC3-2659-000       | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| Fan                                     | RK2-4255-000       | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| Formatter PCA (network model)           | CF152-60001        | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| Formatter, (network wireless model)     | CF153-60001        | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| Fuser assembly (110V-127V)              | RM1-8780-000       | <a href="#">Internal components (4 of 4)<br/>on page 87</a>                          |
| Fuser assembly (220V-240V)              | RM1-8781-000       | <a href="#">Internal components (4 of 4)<br/>on page 87</a>                          |
| Fuser drive motor                       | RM1-8784-000       | <a href="#">Internal components (4 of 4)<br/>on page 87</a>                          |
| Fuser power supply assembly (110V-127V) | RM1-8709-000       | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| Fuser power supply assembly (220V-240V) | RM1-8710-000       | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| High voltage PCA                        | RM1-8705-000       | <a href="#">Internal components (3 of 4)<br/>on page 85</a>                          |

**Table 2-14 Alphabetical parts list (continued)**

| <b>Description</b>                                                    | <b>Part number</b> | <b>Table and page</b>                                                       |
|-----------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------|
| Intermediate transfer belt assembly (ITB)                             | RM1-8777-000       | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| ITB lock lever assembly, left                                         | RM1-4482-000       | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| ITB lock lever assembly, right                                        | RM1-4483-000       | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| Low voltage power supply assembly, network model (110V-127V)          | RM1-9011-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Low voltage power supply assembly, network model (220V-240V)          | RM1-9013-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Low voltage power supply assembly, network wireless model (110V-127V) | RM1-9012-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Low voltage power supply assembly, network wireless model (220V-240V) | RM1-9014-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Main drive assembly                                                   | RM1-9328-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Paper feed guide assembly                                             | RM1-8779-000       | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| PCA, driver assembly                                                  | RM1-8706-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Right cover assembly                                                  | RM1-8771-000       | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Roller, pickup assembly                                               | RM1-8047-000       | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| Roller, separation Assembly                                           | RM1-8765-000       | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| Roller, transfer                                                      | RM1-4445-000       | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| Sub drive assembly                                                    | RM1-8785-000       | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| Upper cover assembly                                                  | RM1-8770-000       | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| Walk-up USB cable                                                     | CF146-60103        | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Walk-up USB PCA                                                       | CF368A             | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| Wireless PCA                                                          | 1150-7940          | <a href="#">Internal components (2 of 4) on page 83</a>                     |

# Numerical parts list

**Table 2-15 Numerical parts list**

| Part number  | Description                           | Table and page                                                              |
|--------------|---------------------------------------|-----------------------------------------------------------------------------|
| 1150-7940    | Wireless PCA                          | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| CF146-60103  | Walk-up USB cable                     | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| CF147-60101  | Control panel, wireless network model | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| CF152-60001  | Formatter PCA (network model)         | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| CF153-60001  | Formatter, (network wireless model)   | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| CF368A       | Walk-up USB PCA                       | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RC2-2014-000 | Cover, holder                         | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| RC3-2652-000 | Cover, left                           | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RC3-2652-000 | Cover, left                           | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RC3-2656-000 | Cover, rear, upper                    | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RC3-2656-000 | Cover, rear upper                     | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RC3-2657-000 | Cover, rear, right                    | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RC3-2657-000 | Cover, rear right                     | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RC3-2658-000 | Cover, rear, lower                    | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RC3-2658-000 | Cover, rear lower                     | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RC3-2659-000 | Door, rear                            | <a href="#">Covers, panels, and doors—network model on page 77</a>          |

**Table 2-15 Numerical parts list (continued)**

| <b>Part number</b> | <b>Description</b>                         | <b>Table and page</b>                                                                |
|--------------------|--------------------------------------------|--------------------------------------------------------------------------------------|
| RC3-2659-000       | Door, rear                                 | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| RC3-2746-000       | Bracket, wireless                          | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RC3-2893-000       | Cover, USB                                 | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| RK2-4255-000       | Fan                                        | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RK2-4540-000       | Cable, flexible flat (base, network model) | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RK2-4546-000       | Cable, flexible flat (network model)       | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RM1-4445-000       | Roller, transfer                           | <a href="#">Internal components (3 of 4)<br/>on page 85</a>                          |
| RM1-4482-000       | ITB lock lever assembly, left              | <a href="#">Internal components (3 of 4)<br/>on page 85</a>                          |
| RM1-4483-000       | ITB lock lever assembly, right             | <a href="#">Internal components (3 of 4)<br/>on page 85</a>                          |
| RM1-8047-000       | Roller, pickup assembly                    | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| RM1-8704-000       | DC controller PCA                          | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RM1-8705-000       | High voltage PCA                           | <a href="#">Internal components (3 of 4)<br/>on page 85</a>                          |
| RM1-8706-000       | PCA, driver assembly                       | <a href="#">Internal components (2 of 4)<br/>on page 83</a>                          |
| RM1-8709-000       | Fuser power supply assembly (110V-127V)    | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| RM1-8710-000       | Fuser power supply assembly (220V-240V)    | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| RM1-8765-000       | Roller, separation Assembly                | <a href="#">Internal components (1 of 4)<br/>on page 81</a>                          |
| RM1-8768-000       | Door, front                                | <a href="#">Covers, panels, and doors—<br/>network model on page 77</a>              |
| RM1-8768-000       | Door, front                                | <a href="#">Covers, panels, and doors—<br/>network wireless model<br/>on page 79</a> |
| RM1-8769-000       | Cover, front                               | <a href="#">Covers, panels, and doors—<br/>network model on page 77</a>              |

**Table 2-15 Numerical parts list (continued)**

| Part number  | Description                                                           | Table and page                                                              |
|--------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| RM1-8769-000 | Cover, front                                                          | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RM1-8770-000 | Upper cover assembly                                                  | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RM1-8771-000 | Right cover assembly                                                  | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RM1-8771-000 | Cover, right                                                          | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RM1-8772-000 | Cassette assembly                                                     | <a href="#">Internal components (1 of 4) on page 81</a>                     |
| RM1-8774-000 | Cassette assembly                                                     | <a href="#">Internal components (4 of 4) on page 87</a>                     |
| RM1-8777-000 | Intermediate transfer belt assembly (ITB)                             | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| RM1-8779-000 | Paper feed guide assembly                                             | <a href="#">Internal components (3 of 4) on page 85</a>                     |
| RM1-8780-000 | Fuser assembly (110V-127V)                                            | <a href="#">Internal components (4 of 4) on page 87</a>                     |
| RM1-8781-000 | Fuser assembly (220V-240V)                                            | <a href="#">Internal components (4 of 4) on page 87</a>                     |
| RM1-8784-000 | Fuser drive motor                                                     | <a href="#">Internal components (4 of 4) on page 87</a>                     |
| RM1-8785-000 | Sub drive assembly                                                    | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| RM1-8788-000 | Control-panel assembly (network model)                                | <a href="#">Covers, panels, and doors—network model on page 77</a>          |
| RM1-9011-000 | Low voltage power supply assembly, network model (110V-127V)          | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| RM1-9012-000 | Low voltage power supply assembly, network wireless model (110V-127V) | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| RM1-9013-000 | Low voltage power supply assembly, network model (220V-240V)          | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| RM1-9014-000 | Low voltage power supply assembly, network wireless model (220V-240V) | <a href="#">Internal components (2 of 4) on page 83</a>                     |
| RM1-9327-000 | Cover, upper                                                          | <a href="#">Covers, panels, and doors—network wireless model on page 79</a> |
| RM1-9328-000 | Main drive assembly                                                   | <a href="#">Internal components (2 of 4) on page 83</a>                     |



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